

TEXTRON AVIATION INC.  
AIRCRAFT DIVISION  
WICHITA, KANSAS 67277

**SUPER KING AIR B300/B300C**

**Auto Throttle System  
Environmental Control System Upgrade  
325 Ampere Starter/Generator**

**ICA Supplement**

**MODEL NO: 434-590169-0009**

**SUPPLEMENT NO: ICA-434-590169-0009-ICA-003**  
**SUPPLEMENT DATE: 12/02/2022**

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**REVISIONS**

434-590169-0009-ICA-003	Rev: -	Date: 12/02/2022
ICA Summary	Pages 1-15	

<b>Model B300 Fusion Maintenance Manual</b>	
<b>ATA - Pages</b>	<b>Title</b>
<b>Chapter 5, Time Limits/Maintenance Checks</b>	
05-10-01 - Pages 1-24	Inspection Time Limits
<ul style="list-style-type: none"> <li>• Added inspection tasks pertinent to the auto throttle system and vapor cycle cooling system.</li> </ul>	
05-21-01 - Pages 1-19	Inspection Detail 1
<ul style="list-style-type: none"> <li>• Added inspection task 22-30-00-2100, Auto Throttle Assembly General Visual Inspection</li> <li>• Added inspection task 22-30-00-7100, Power Control Lever Movement Operational Check</li> </ul>	
05-21-02 - Pages 1-18	Inspection Detail 2
<ul style="list-style-type: none"> <li>• Added inspection task 22-30-00-2100, Auto Throttle Assembly General Visual Inspection</li> <li>• Added inspection task 22-30-00-7100, Power Control Lever Movement Operational Check</li> </ul>	
05-21-03 - Pages 1-26	Inspection Detail 3
<ul style="list-style-type: none"> <li>• Added inspection task 22-30-00-2100, Auto Throttle Assembly General Visual Inspection</li> <li>• Added inspection task 22-30-00-7100, Power Control Lever Movement Operational Check</li> </ul>	
05-21-04 - Pages 1-23	Inspection Detail 4
<ul style="list-style-type: none"> <li>• Added inspection task 21-52-11-2101, Condenser Assembly Upper and Lower Mounting Brackets and Hardware General Visual Inspection</li> <li>• Added inspection task 22-30-00-2100, Auto Throttle Assembly General Visual Inspection</li> <li>• Added inspection task 22-30-00-7100, Power Control Lever Movement Operational Check</li> <li>• Added inspection task 22-30-00-7101, Auto Throttle Friction Operational Check</li> <li>• Added inspection task 22-30-00-7102, Auto Throttle System Override Operational Check</li> </ul>	
05-21-05 - Pages 1-26	Inspection Detail 5
<ul style="list-style-type: none"> <li>• Added inspection task 22-30-00-2100, Auto Throttle Assembly General Visual Inspection</li> <li>• Added inspection task 22-30-00-7100, Power Control Lever Movement Operational Check</li> </ul>	
05-21-06 - Pages 1-37	Inspection Detail 6
<ul style="list-style-type: none"> <li>• Added inspection task 21-52-11-2101, Condenser Assembly Upper and Lower Mounting Brackets and Hardware General Visual Inspection</li> <li>• Added inspection task 22-30-00-2100, Auto Throttle Assembly General Visual Inspection</li> <li>• Added inspection task 22-30-00-7100, Power Control Lever Movement Operational Check</li> <li>• Added inspection task 22-30-00-7101, Auto Throttle Friction Operational Check</li> <li>• Added inspection task 22-30-00-7102, Auto Throttle System Override Operational Check</li> </ul>	
05-21-08 - Pages 1-11	Inspection Detail 8

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<b>Model B300 Fusion Maintenance Manual</b>	
<b>ATA - Pages</b>	<b>Title</b>
<ul style="list-style-type: none"> <li>Added inspection task 21-52-01-2100, Condenser Blower General Visual Inspection</li> <li>Added inspection task 21-52-01-2101, Receiver/Dryer General Visual Inspection</li> <li>Added inspection task 21-52-01-2102, Cockpit Evaporator General Visual Inspection</li> <li>Added inspection task 21-52-01-2103, Cabin Evaporator General Visual Inspection</li> <li>Added inspection task 21-52-11-1600, Condenser Assembly Coil Cleaning</li> <li>Added inspection task 21-52-11-2100, Condenser Coil General Visual Inspection</li> <li>Added inspection task 22-30-00-7100, Power Control Lever Movement Operational Check</li> <li>Added inspection task 22-30-00-7101, Auto Throttle Friction Operational Check</li> <li>Added inspection task 22-30-00-7102, Auto Throttle System Override Operational Check</li> </ul>	
05-21-12 - Pages 1-5	Inspection Detail 12
<ul style="list-style-type: none"> <li>Added inspection task 22-30-00-7100, Power Control Lever Movement Operational Check</li> <li>Added inspection task 22-30-00-7101, Auto Throttle Friction Operational Check</li> <li>Added inspection task 22-30-00-7102, Auto Throttle System Override Operational Check</li> <li>Added inspection task 34-10-07-2100, Standby Display Unit (SDU) General Visual Inspection</li> <li>Added inspection task 34-10-07-2101, Remote Standby Controller (RSC) General Visual Inspection</li> </ul>	
<b>Chapter 21, Air Conditioning</b>	
21-00-00 - Pages 1-2	General - General
<ul style="list-style-type: none"> <li>Revised descriptions of heating and cooling systems based on aircraft serialization.</li> </ul>	
21-21-15 - Pages 401-402	Acoustic Muffler - Removal/Installation
<ul style="list-style-type: none"> <li>New section for the removal/installation of the acoustic mufflers for airplane serials FL-1300, FL-1307 and After, and FM-110 and After.</li> </ul>	
21-21-17 - Pages 401-403	Bleed Air Orifice Meter - Removal/Installation
<ul style="list-style-type: none"> <li>New section for the removal/installation of the bleed air orifice meter for airplane serials FL-1300, FL-1307 and After, and FM-110 and After.</li> </ul>	
21-41-00 - Pages 1-6	Heating - Description and Operation
<ul style="list-style-type: none"> <li>Added serialization to bypass valve operation section and added temperature modulating valve operation section for serials FL-1300, FL-1307 and after, and FM-110 and after.</li> </ul>	
21-41-01 - Pages 401-402	Electric Heater - Removal/Installation (FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306; FM-66 thru FM-109)
<ul style="list-style-type: none"> <li>Added applicable airplane serialization to section title.</li> </ul>	
21-41-07 - Page 601	Bleed Air Bypass Valve - Inspection/Check
<ul style="list-style-type: none"> <li>Added applicable airplane serialization to section title.</li> </ul>	
21-41-08 - Pages 401-403	Temperature Modulating Valve - Removal/Installation
<ul style="list-style-type: none"> <li>New section for the removal/installation of the temperature modulating valve for airplane serials FL-1300, FL-1307 and After, and FM-110 and After.</li> </ul>	
21-45-00 - Pages 401-403	Electric Heater - Removal/Installation
<ul style="list-style-type: none"> <li>New section for the removal/installation of the electric heater for airplane serials FL-1300, FL-1307 and After, and FM-110 and After.</li> </ul>	
21-51-00 - Pages 1-3	Cooling - Description and Operation

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<b>Model B300 Fusion Maintenance Manual</b>	
<b>ATA - Pages</b>	<b>Title</b>
• Added applicable airplane serialization to section title.	
21-51-00 - Pages 101-109	Cooling - Troubleshooting
• Added applicable airplane serialization to section title.	
21-51-00 - Page 301	Cooling - Servicing
• Added applicable airplane serialization to section title.	
21-51-01 - Pages 301-311	Air Conditioning System - Servicing
• Added applicable airplane serialization to section title.	
21-51-03 - Pages 301-303	Compressor - Servicing
• Added applicable airplane serialization to section title.	
21-51-03 - Pages 401-405	Compressor - Removal/Installation
• Added applicable airplane serialization to section title.	
21-51-05 - Pages 401-403	Compressor Belt - Removal/Installation
• Added applicable airplane serialization to section title.	
21-51-05 - Pages 501-503	Compressor Belt - Adjustment/Test
• Added applicable airplane serialization to section title.	
21-51-07 - Pages 401-403	Compressor Mount - Removal/Installation
• Added applicable airplane serialization to section title.	
21-51-09 - Pages 401-403	Compressor Mount Support - Removal/Installation
• Added applicable airplane serialization to section title.	
21-51-11 - Pages 401-403	Condenser - Removal/Installation
• Added applicable airplane serialization to section title.	
21-51-17 - Pages 401-402	Receiver/Dryer - Removal/Installation
• Added applicable airplane serialization to section title.	
21-52-00 - Pages 1-4	Vapor Cycle Cooling System - Description and Operation
• New section for description and operation of the vapor cycle cooling system on serials FL-1300, FL-1307 and after, and FM-110 and after.	
21-52-00 - Pages 101-104	Vapor Cycle Cooling System - Troubleshooting
• New section for troubleshooting the vapor cycle cooling system on serials FL-1300, FL-1307 and after, and FM-110 and after.	
21-52-01 - Pages 301-310	Vapor Cycle Cooling System - Servicing
• New section for the evacuation/flushing of the vapor cycle cooling system for airplane serials FL-1300, FL-1307 and After, and FM-110 and After.	



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<b>Model B300 Fusion Maintenance Manual</b>	
<b>ATA - Pages</b>	<b>Title</b>
21-52-01 - Pages 601-603	Vapor Cycle Cooling System - Inspection/Check
<ul style="list-style-type: none"> <li>New section for the inspection/check of the vapor cycle cooling system components for airplane serials FL-1300, FL-1307 and After, and FM-110 and After.</li> </ul>	
21-52-03 - Pages 401-404	Compressor Assembly - Removal/Installation
<ul style="list-style-type: none"> <li>New section for the removal/installation of the air conditioning compressor assembly for airplane serials FL-1300, FL-1307 and After, and FM-110 and After.</li> </ul>	
21-52-11 - Pages 401-405	Condenser Assembly - Removal/Installation
<ul style="list-style-type: none"> <li>New section for the removal/installation of the condenser assembly for airplane serials FL-1300, FL-1307 and After, and FM-110 and After.</li> </ul>	
21-52-11 - Pages 601-602	Condenser Assembly - Inspection/Check
<ul style="list-style-type: none"> <li>New section for the inspection/check of the condenser assembly for airplane serials FL-1300, FL-1307 and After, and FM-110 and After.</li> </ul>	
21-52-15 - Pages 401-402	Condenser Blower - Removal/Installation
<ul style="list-style-type: none"> <li>New section for removal and installation of the condenser blower for airplane serials FL-1300, FL-1307 and After, and FM-110 and After.</li> </ul>	
21-52-17 - Pages 401-403	Receiver/Dryer - Removal/Installation
<ul style="list-style-type: none"> <li>New section for the removal/installation of the receiver/dryer for airplane serials FL-1300, FL-1307 and After and FM-110 and After.</li> </ul>	
21-52-19 - Pages 401-405	Cockpit Evaporator - Removal/Installation
<ul style="list-style-type: none"> <li>New section for the removal/installation of the cockpit evaporator for airplane serials FL-1300, FL-1307 and After, and FM-110 and After.</li> </ul>	
21-52-21 - Pages 401-404	Cabin Evaporator - Removal/Installation
<ul style="list-style-type: none"> <li>New section for the removal/installation of the cabin evaporator for airplane serials FL-1300, FL-1307 and After, and FM-110 and After.</li> </ul>	
21-60-00 - Pages 1-2	Temperature Control - Description and Operation
<ul style="list-style-type: none"> <li>Added applicable airplane serialization to section title.</li> </ul>	
21-60-00 - Pages 601-605	Temperature Control - Inspection/Check
<ul style="list-style-type: none"> <li>Added applicable airplane serialization to section title.</li> </ul>	
21-60-01 - Pages 401-402	Cabin Temperature Controller - Removal/Installation
<ul style="list-style-type: none"> <li>Added applicable airplane serialization to section title.</li> </ul>	
21-60-01 - Page 501	Cabin Temperature Controller - Adjustment/Test
<ul style="list-style-type: none"> <li>Added applicable airplane serialization to section title.</li> </ul>	
21-61-01 - Pages 401-402	Environmental Control System (ECS) Controller - Removal/Installation
<ul style="list-style-type: none"> <li>New section for the removal/installation of the ECS controller for airplane serials FL-1300, FL-1307 and After, and FM-110 and After.</li> </ul>	
<b>Chapter 22, Auto Flight</b>	

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<b>Model B300 Fusion Maintenance Manual</b>	
<b>ATA - Pages</b>	<b>Title</b>
22-30-00 - Pages 1-5	Auto Throttle System - Description and Operation
<ul style="list-style-type: none"> <li>New section for the description and operation of the auto throttle system for airplane serials FL-1300, FL-1307 and After, and FM-110 and After.</li> </ul>	
22-30-00 - Pages 101-103	Auto Throttle System - Troubleshooting
<ul style="list-style-type: none"> <li>New section for troubleshooting the auto throttle system for airplane serials FL-1300, FL-1307 and After, and FM-110 and After.</li> </ul>	
22-30-00 - Pages 501-503	Auto Throttle System - Adjustment/Test
<ul style="list-style-type: none"> <li>New section for adjustment/test of the auto throttle system for airplane serials FL-1300, FL-1307 and After, and FM-110 and After.</li> </ul>	
22-30-00 - Pages 601-606	Auto Throttle System - Inspection/Check
<ul style="list-style-type: none"> <li>New section for inspection/check of the auto throttle system for airplane serials FL-1300, FL-1307 and After, and FM-110 and After.</li> </ul>	
22-30-01 - Pages 401-404	Auto Throttle Assembly - Removal/Installation
<ul style="list-style-type: none"> <li>New section for the removal/installation of the auto throttle actuator assembly for airplane serials FL-1300, FL-1307 and After, and FM-110 and After.</li> </ul>	
<b>Chapter 24, Electrical Power</b>	
24-30-00 - Pages 1-11	DC Generation and Control System - Description and Operation
<ul style="list-style-type: none"> <li>Updated serialization in section title.</li> </ul>	
24-30-03 - Pages 401-405	Starter/Generator - Removal/Installation
<ul style="list-style-type: none"> <li>Added illustration Sheet 2 for 325 amp starter/generator installation.</li> </ul>	
24-31-00 - Pages 1-3	DC Generation and Control System - Description and Operation (FL-1300, FL-1307 and After; FM-110 and After)
<ul style="list-style-type: none"> <li>New section for the Description and Operation of the DC Generation and Control System for airplane serials FL-1300, FL-1307 and After, and FM-110 and After.</li> </ul>	
24-50-00 - Pages 201-235	AC Electrical Load Distribution - Maintenance Practices
<ul style="list-style-type: none"> <li>Updated electrical load charts based on systems changes on airplane serials FL-1300, FL-1307 and on, and FM-110 and on.</li> </ul>	
24-50-05 - Pages 401-402	Main Power Distribution Panel - Removal/Installation
<ul style="list-style-type: none"> <li>Updated illustration Figure 401 to depict the digital generator control units for airplane serials FL-1300, FL-1307 and after, and FM-110 and after.</li> </ul>	
24-60-00 - Pages 1-5	DC Electrical Load Distribution System - Description and Operation
<ul style="list-style-type: none"> <li>Added serialization and schematic diagram for airplane serials FL-1300, FL-1307 and On, and FM-110 and On.</li> </ul>	

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<b>Model B300 Fusion Maintenance Manual</b>	
<b>ATA - Pages</b>	<b>Title</b>
<b>Chapter 34, Navigation</b>	
34-10-07 - Pages 601-603	Static System - Inspection/Check
<ul style="list-style-type: none"> <li>Added Standby Display Unit (SDU) General Visual Inspection task number 34-10-07-2100 and Remote Standby Controller (RSC) General Visual Inspection task number 34-10-07-2101.</li> </ul>	
34-23-00 - Page 1	Electronic Standby Instrument System (ESIS) - Description and Operation
<ul style="list-style-type: none"> <li>Added applicable airplane serialization to section title.</li> </ul>	
34-23-01 - Page 201	ESIS Display Unit (DU-42) - Maintenance Practices
<ul style="list-style-type: none"> <li>Added applicable airplane serialization to section title.</li> </ul>	
34-23-01 - Pages 401-402	ESIS Display Unit (DU-42) - Removal/Installation
<ul style="list-style-type: none"> <li>Added applicable airplane serialization to section title.</li> </ul>	
34-23-01 - Pages 501-503	ESIS Display Unit (DU-42) - Adjustment/Test
<ul style="list-style-type: none"> <li>Added applicable airplane serialization to section title.</li> </ul>	
34-23-03 - Pages 401-402	GH-3900RSU ESIS Remote Sensor - Removal/Installation
<ul style="list-style-type: none"> <li>Added applicable airplane serialization to section title.</li> </ul>	
34-23-03 - Page 501	GH-3900RSU ESIS Remote Sensor - Adjustment/Test
<ul style="list-style-type: none"> <li>Added applicable airplane serialization to section title.</li> </ul>	
34-23-11 - Pages 501-509	Magnetometer (MAG-3000A) - Adjustment/Test
<ul style="list-style-type: none"> <li>New section for adjustment/test of the Magnetometer MAG-3000A for airplane serials FL-1300, FL-1307 and After, and FM-110 and After.</li> </ul>	
34-25-00 - Pages 1-3	Standby Display Unit, Auto Throttle System - Description and Operation (FL-1300, FL-1307 and After; FM-110 and After)
<ul style="list-style-type: none"> <li>New section for description and operation of the auto throttle system Standby Display Unit (SDU).</li> </ul>	
34-25-00 - Pages 401-402	Standby Display Unit, Auto Throttle System - Removal/Installation (FL-1300, FL-1307 and After; FM-110 and After)
<ul style="list-style-type: none"> <li>New section for removal and installation of the auto throttle system Standby Display Unit (SDU).</li> </ul>	
34-25-01 - Pages 1-2	Remote Standby Controller, Auto Throttle System - Description and Operation (FL-1300, FL-1307 and After; FM-110 and After)
<ul style="list-style-type: none"> <li>New section for description and operation of the auto throttle system Remote Standby Controller (RSC).</li> </ul>	
34-25-01 - Pages 401-402	Remote Standby Controller, Auto Throttle System - Removal/Installation (FL-1300, FL-1307 and After; FM-110 and After)
<ul style="list-style-type: none"> <li>New section for removal and installation of the auto throttle system Remote Standby Controller (RSC).</li> </ul>	

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<b>Model B300 Fusion Maintenance Manual</b>	
<b>ATA - Pages</b>	<b>Title</b>
34-25-03 - Pages 501-506	Standby Display Unit/Remote Standby Controller - Adjustment/Test (FL-1300, FL-1307 and After; FM-110 and After)
<ul style="list-style-type: none"> <li>New section for adjustment/test of the auto throttle system Standby Display Unit and Remote Standby Controller.</li> </ul>	
34-25-05 - Pages 401-403	Installation Configuration Module - Removal/Installation (FL-1300, FL-1307 and After; FM-110 and After)
<ul style="list-style-type: none"> <li>New section for removal and installation of the Installation Configuration Module.</li> </ul>	
<b>Chapter 76, Engine Controls</b>	
76-10-03 - Pages 501-504	Power Control System - Adjustment/Test
<ul style="list-style-type: none"> <li>Added note with a reference to section 22-30-00, 501 for the adjustment and testing of the auto throttle system.</li> </ul>	
<b>Chapter 80, Starting</b>	
80-00-00 - Page 1	Starting - General
<ul style="list-style-type: none"> <li>Changed serialization of 300 ampere and 325 ampere starter/generator usage.</li> </ul>	

**Appendix A: B300/B300C Illustrated Parts Catalog (130-590031-315) and B300/B300C Illustrated Parts Catalog - Without CMS Installed (130-590031-9) Supplement**

See Appendix A Parts Table

**Appendix B: Super King Air Model B300/B300C Fusion Wiring Diagram Manual (434-590169-0011) Supplement**

See Appendix B Wiring Diagram Manual Supplement

**1. Export Compliance**

- A. This publication contains technical data and is subject to U.S. export regulations. This information has been exported from the United States in accordance with export administration regulations. Diversion contrary to U.S. law is prohibited.

ECCN: 9E991

**2. Revision Bars**

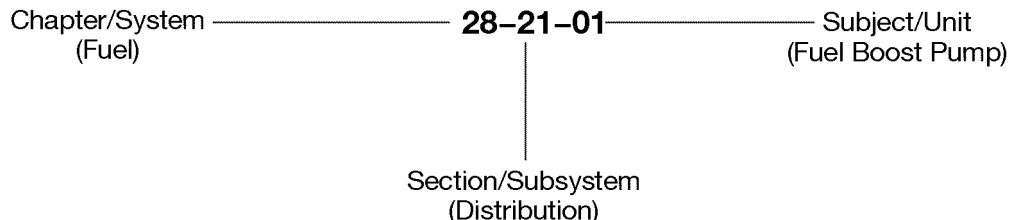
- A. Revision bars in this ICA supplement identify new ICAs and/or changes to the current ICAs in the released maintenance manual.
- New ICAs that are not in the current maintenance manual will have a revision bar from top to bottom along the left margin.
  - ICAs that are in the current maintenance manual and have information added, deleted or revised will have a revision bar(s) in the left margin adjacent to the added, deleted or revised information.
  - New or changed illustrations will have a change bar for the entire length of the page.

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**3. Page Numbering**

- A. The page number system for ICA included in this supplement have three-element numbers that are separated by dashes. The three-element number is found at the bottom right corner of the page, left of the page number. The date is found below the page number.

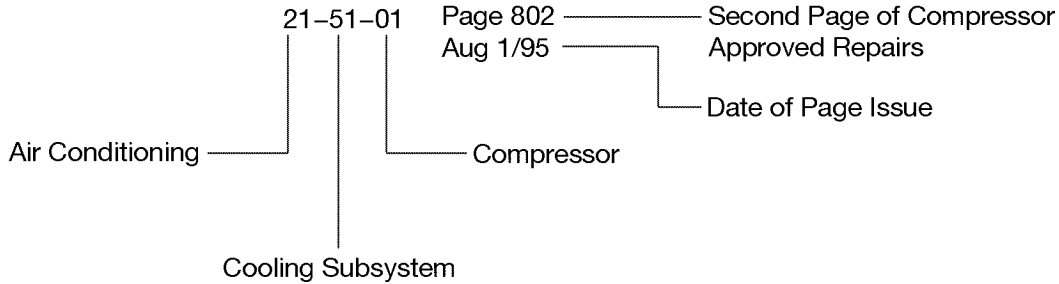
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- B. When the chapter/system element number is followed with zeros in the section/subsystem and subject/unit element number (28-00-00), the information is applicable to the entire system.
- C. When the section/subsystem element number is followed with zeros in the subject/unit element number (28-21-00), the information is applicable to the subsystems in the system.
- D. The subject/unit element number is used to identify information applicable to units in the subsystems. The subject/unit element number continues in sequence from the number -01- with the number of subsystem units in which maintenance information is necessary.
- E. All system/subsystem/unit (chapter/section/subject) maintenance data is separated into specified types of information: Description and Operation, Troubleshooting, Maintenance Practices, etc. Blocks of page numbers that are in sequence are used to identify the type of information:
- (1) Description and Operation or Troubleshooting information may not be included if the procedure is easy. When subtopics are short, they may be put together into the Maintenance Practices section. Maintenance Practices can have a mix of subtopics that includes information to service, remove, install, adjust, test, clean, paint or do approved repairs.
  - (2) Longer procedures that are not as easy to do may be included in a specified section.
    - Page 1 through 99 - Description and Operation
    - Page 101 through 199 - Troubleshooting
    - Page 201 through 299 - Maintenance Practices
    - Page 301 through 399 - Servicing
    - Page 401 through 499 - Removal/Installation
    - Page 501 through 599 - Adjustment/Test
    - Page 601 through 699 - Inspection/Check
    - Page 701 through 799 - Cleaning/Painting
    - Page 801 through 899 - Approved Repairs
- F. A typical page number:

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G. Illustrations use the same figure numbers as the page block in which they appear. For example, Figure 202 would be the second figure in a Maintenance Practices section.

#### 4. Supplement Revisions

- A. Revisions to this supplement may be accomplished if changes to this supplement are required after release of the original issue and prior to incorporation into the manuals listed in the REVISIONS table.
- B. All revisions to this supplement will have changes identified in detail in the revision block(s) above.
- C. All pages in this ICA supplement will have the same date and are valid as of the date shown.

#### 5. ICA Incorporation into Applicable Manuals

**NOTE:** Most ICA supplements will be incorporated in the next available revision to the manuals listed above and should be used in conjunction with those manuals until the next available revision is released.

- A. The ICA Supplement List located in the Introduction section of each manual listed in the REVISIONS table will indicate the incorporation status as of the release date of the published revision.
- B. The manual revision level of the supplement incorporation will be listed in the "Manual Incorporation Status" column in the ICA Supplement List, when those ICAs associated with that manual have been incorporated. After ICAs are incorporated, the manual that they are incorporated in must now be used for those ICAs instead of the supplement.
  - Based on revision cycle times for the affected manuals, MM ICAs, WDM ICAs, etc. in this supplement may be incorporated in the manuals at different times.
  - There will not be a revision to this supplement to indicate incorporation in the manuals. Users are required to check the ICA Supplement List for each manual affected to determine incorporation status.
- C. This supplement will be completely superseded by the manuals listed in the REVISIONS table when it has been incorporated in all of the manuals.

## INTRODUCTION

### 1. Purpose

- A. The purpose of this Supplement is to provide the maintenance technician with the information necessary to ensure the correct functionality and performance of the Super King Air B300/B300C Auto Throttle System, ECS Upgrade and 325 Ampere Starter/Generator on the Beechcraft Super King Air Model B300/B300C Fusion until this information gets incorporated into the next revision to the manuals listed in the "REVISIONS" section of this supplement.
- B. This ICA supplement is designed to satisfy the requirements of 14 CFR 23.1529 "Instructions for Continued Airworthiness" associated with this installation. This document is a supplement to the Super King Air Model B300/B300C Fusion Maintenance Manual and will be incorporated in the next revision to the manual.
- C. When this information is incorporated in the next revision to the manuals listed in the "REVISIONS" section, those manuals shall take precedence over this supplemental document. Refer to the "ICA Supplement List" in the "Introduction" section of the respective manual for the status of all applicable ICA Supplements.
- D. Revisions to this supplement may occur if there is a change to any of the ICAs in this supplement prior to incorporation into all of the affected manuals.

**NOTE:** This document must be placed with the aircraft operator's Technical Library CD-ROM or Model B300/B300C Fusion Maintenance Manual and incorporated into the operator's scheduled maintenance program.

### 2. Effectivity

- A. These Instructions for Continued Airworthiness (ICA) are effective for the following aircraft model and serialization.

Model	Beginning Effectivity	Ending Effectivity
Super King Air B300/B300C Fusion	FL-1300, FL-1307	and On
	FM-110	and On

### 3. Complete ICA Documents

- A. The following document(s), in conjunction with this supplement, constitute the Instructions for Continued Airworthiness for the Super King Air B300/B300C Auto Throttle System, Environmental Control System Upgrade, and 325 Ampere Starter/Generator. All items must be available to the operator at initial delivery.
  - (1) Model B300/B300C Fusion Maintenance Manual (434-590169-0009)
  - (2) Model B300/B300C Fusion Wire Diagram Manual (434-590169-0011)
  - (3) King Air Chapter 20 Standard Practices - Airframe (130-590031-487)

### 4. System Components

- A. Refer to Appendix A: B300/B300C Illustrated Parts Catalog (130-590031-315) and B300/B300C Illustrated Parts Catalog - Without CMS Installed (130-590031-9) Supplement.
- B. Refer to Appendix B: Super King Air B300/B300C Fusion Wiring Diagram Manual (434-590169-0011) Supplement.

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**LIST OF INSTRUCTIONS FOR CONTINUED AIRWORTHINESS**

**1. Model B300/B300C Fusion Maintenance Manual**

A. Chapter 5, Time Limits/Maintenance Checks

- (1) Refer to 05-10-01, 001 Inspection Time Limits
- (2) Refer to 05-21-01, 001 Inspection Detail 1
- (3) Refer to 05-21-02, 001 Inspection Detail 2
- (4) Refer to 05-21-03, 001 Inspection Detail 3
- (5) Refer to 05-21-04, 001 Inspection Detail 4
- (6) Refer to 05-21-05, 001 Inspection Detail 5
- (7) Refer to 05-21-06, 001 Inspection Detail 6
- (8) Refer to 05-21-08, 001 Inspection Detail 8
- (9) Refer to 05-21-12, 001 Inspection Detail 12

B. Chapter 21, Air Conditioning

- (1) Refer to 21-00-00, 001 Environmental/Air Conditioning - General
- (2) Refer to 21-21-15, 401 Acoustic Muffler - Removal/Installation
- (3) Refer to 21-21-17, 401 Bleed Air Orifice Meter - Removal/Installation
- (4) Refer to 21-41-00, 001 Heating - Description and Operation
- (5) Refer to 21-41-01, 401 Electric Heater - Removal/Installation (FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306; FM-66 thru FM-109)
- (6) Refer to 21-41-07, 601 Bleed Air Bypass Valve - Inspection/Check
- (7) Refer to 21-41-08, 401 Temperature Modulating Valve - Removal/Installation
- (8) Refer to 21-45-00, 401 Electric Heater - Removal/Installation (FL-1300, FL-1307 and After; FM-110 and After)
- (9) Refer to 21-51-00, 001 Cooling - Description and Operation
- (10) Refer to 21-51-00, 101 Cooling - Troubleshooting
- (11) Refer to 21-51-00, 301 Cooling - Servicing
- (12) Refer to 21-51-01, 301 Air Conditioning System - Servicing
- (13) Refer to 21-51-03, 301 Compressor - Servicing
- (14) Refer to 21-51-03, 401 Compressor - Removal/Installation
- (15) Refer to 21-51-05, 401 Compressor Belt - Removal/Installation
- (16) Refer to 21-51-07, 401 Compressor Mount - Removal/Installation
- (17) Refer to 21-51-09, 401 Compressor Mount Support - Removal/Installation
- (18) Refer to 21-51-11, 401 Condenser - Removal/Installation
- (19) Refer to 21-51-17, 401 Receiver/Dryer - Removal/Installation
- (20) Refer to 21-52-00, 001 Vapor Cycle Cooling System - Description and Operation
- (21) Refer to 21-52-00, 101 Vapor Cycle Cooling System - Troubleshooting
- (22) Refer to 21-52-01, 301 Vapor Cycle Cooling System - Servicing
- (23) Refer to 21-52-01, 601 Vapor Cycle Cooling System - Inspection/Check
- (24) Refer to 21-52-03, 401 Compressor - Removal/Installation
- (25) Refer to 21-52-11, 401 Condenser - Removal/Installation
- (26) Refer to 21-52-11, 601 Condenser - Inspection/Check
- (27) Refer to 21-52-15, 401 Condenser Blower - Removal/Installation
- (28) Refer to 21-52-17, 401 Receiver/Dryer - Removal/Installation
- (29) Refer to 21-52-19, 401 Cockpit Evaporator - Removal/Installation
- (30) Refer to 21-52-21, 401 Cabin Evaporator - Removal/Installation
- (31) Refer to 21-60-00, 001 Temperature Control - Description and Operation
- (32) Refer to 21-60-00, 601 Temperature Control - Inspection/Check
- (33) Refer to 21-60-01, 401 Cabin Temperature Controller- Removal/Installation
- (34) Refer to 21-60-01, 501 Cabin Temperature Controller- Adjustment/Test
- (35) Refer to 21-61-01, 401 Cabin Temperature Controller- Removal/Installation



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- C. Chapter 22, Auto Flight
  - (1) Refer to 22-30-00, 001 Auto Throttle System - Description and Operation
  - (2) Refer to 22-30-00, 101 Auto Throttle System - Troubleshooting
  - (3) Refer to 22-30-00, 501 Auto Throttle System - Adjustment/Test
  - (4) Refer to 22-30-00, 601 Auto Throttle System - Inspection/Check
  - (5) Refer to 22-30-01, 401 Auto Throttle Assembly- Removal/Installation
  - (6) Refer to 22-30-01, 601 Auto Throttle Assembly- Inspection/Check
- D. Chapter 24, Electrical Power
  - (1) Refer to 24-00-00, 001 Electrical Power - Description and Operation
  - (2) Refer to 24-30-00, 001 DC Generation and Control System - Description and Operation
  - (3) Refer to 24-30-03, 401 Starter/Generator - Removal/Installation
  - (4) Refer to 24-30-05, 501 Generator Control Panel - Adjustment/Test
  - (5) Refer to 24-30-07, 501 Generator Control Relay - Adjustment/Test
  - (6) Refer to 24-31-00, 001 DC Generation and Control System - Description and Operation
  - (7) Refer to 24-50-00, 201 AC Electrical Load Distribution - Maintenance Practices
  - (8) Refer to 24-50-05, 401 Main Power Distribution Panel - Removal/Installation
  - (9) Refer to 24-60-00, 001 DC Electrical Load Distribution - Description and Operation
- E. Chapter 34, Navigation
  - (1) Refer to 34-23-00, 001 Electronic Standby Instrument System (ESIS) - Description and Operation
  - (2) Refer to 34-23-01, 201 ESIS Display Unit (DU-42) - Maintenance Practices
  - (3) Refer to 34-23-01, 401 ESIS Display Unit (DU-42) - Removal/Installation
  - (4) Refer to 34-23-01, 501 ESIS Display Unit (DU-42) - Adjustment/Test
  - (5) Refer to 34-23-03, 401 GH-3900RSU ESIS Remote Sensor - Removal/Installation
  - (6) Refer to 34-23-03, 501 GH-3900RSU ESIS Remote Sensor - Adjustment/Test
  - (7) Refer to 34-23-11, 501 Magnetometer (MAG-3000A) - Adjustment/Test
  - (8) Refer to 34-25-00, 001 Standby Display Unit (SDU) - Description and Operation
  - (9) Refer to 34-25-00, 401 Standby Display Unit (SDU) - Removal/Installation
  - (10) Refer to 34-25-01, 001 Remote Standby Controller (RSC) - Description and Operation
  - (11) Refer to 34-25-01, 401 Remote Standby Controller (RSC) - Removal/Installation
  - (12) Refer to 34-25-03, 501 Standby Display Unit and Remote Standby Controller- Adjustment/Test
  - (13) Refer to 34-25-05, 401 Installation Configuration Module - Removal/Installation
- F. Chapter 76, Engine Controls
  - (1) Refer to 76-10-03, 501 Power Control System - Adjustment/Test
- G. Chapter 80, Starting
  - (1) Refer to 80-00-00, 001 Starting - General

**2. Appendix B: Super King Air Model B300/B300C Fusion Wiring Diagram Manual (434-590169-0011)**

- A. Chapter 21, Air Conditioning
  - (1) Refer to 21-31-01, Figure 03, Bleed Air Valves
  - (2) Refer to 21-41-01, Figure 02, Electric Heating
  - (3) Refer to 21-52-01, Figure 02, Cabin Cooling
  - (4) Refer to 21-61-01, Figure 03, Cabin Temperature Control
  - (5) Refer to 21-61-02, Figure 02, Cabin Temperature Control
- B. Chapter 22, Auto Flight
  - (1) Refer to 22-10-04, Figure 02, Flight Guidance Panel
  - (2) Refer to 22-10-05, Figure 02, Flight Guidance Panel
  - (3) Refer to 22-10-06, Figure 02, Flight Guidance Panel
  - (4) Refer to 22-30-01, Figure 01, Auto Throttle
- C. Chapter 24, Electrical Power
  - (1) Refer to 24-31-01, Figure 02, DC Generation - Left
  - (2) Refer to 24-31-02, Figure 02, DC Generation - Right

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- (3) Refer to 24-33-01, Figure 02, Battery
  - (4) Refer to 24-34-01, Figure 02, Bus Tie Control
  - (5) Refer to 24-61-01, Figure 02, Left DC Gen Bus and Sub Bus
  - (6) Refer to 24-61-02, Figure 02, Right DC Gen Bus and Sub Bus
  - (7) Refer to 24-63-01, Figure 02, Triple Fed and Center Bus
  - (8) Refer to 24-64-01, Figure 06, Panel Assembly-Circuit Breaker, Right
  - (9) Refer to 24-64-02, Figure 03, Panel Assembly-Circuit Breaker, Right
  - (10) Refer to 24-64-03, Figure 03, Panel Assembly-Circuit Breaker, Right
- D. Chapter 27, Flight Controls
- (1) Refer to 27-51-02, Figure 05, Flap Drivers Electrical Control
- E. Chapter 28, Fuel
- (1) Refer to 28-01-01, Figure 02, Panel Assembly-Fuel Control
  - (2) Refer to 28-01-05, Figure 02, Panel Assembly-Fuel Control
  - (3) Refer to 28-41-02, Figure 02, Right Fuel Quantity
- F. Chapter 30, Ice And Rain Protection
- (1) Refer to 30-21-01, Figure 03, Left Engine Anti-Ice
  - (2) Refer to 30-21-02, Figure 03, Right Engine Anti-Ice
  - (3) Refer to 30-61-01, Figure 02, Propeller Deice Control
- G. Chapter 31, Indicating And Recording
- (1) Refer to 31-10-01, Figure 04, Reversionary Switching
  - (2) Refer to 31-30-05, Figure 04, Pitch, Roll and Yaw Transducers (Optional)
  - (3) Refer to 31-30-06, Figure 04, Thrust Command Transducers (Optional)
  - (4) Refer to 31-40-01, Figure 05, Integrated Avionics Processing System
  - (5) Refer to 31-51-01, Figure 04, Annunciator Control
  - (6) Refer to 31-51-11, Figure 05, No. 1 RDC-4002
  - (7) Refer to 31-51-14, Figure 05, No. 2 EDC & DCU
  - (8) Refer to 31-51-15, Figure 05, No. 1 EDC & DCU
- H. Chapter 33, Lights
- (1) Refer to 33-01-01, Figure 04, Panel Assembly - Overhead Control
  - (2) Refer to 33-01-02, Figure 03, Panel Assembly - Overhead Control
  - (3) Refer to 33-01-04, Figure 02, Panel Assembly - Overhead Control
  - (4) Refer to 33-16-01, Figure 04, Overhead, Subpanel & Console Lighting
  - (5) Refer to 33-23-01, Figure 05, Entry & Loading Lights
  - (6) Refer to 33-42-01, Figure 02, Navigation Lights
  - (7) Refer to 33-43-02, Figure 02, High Intensity Lighting
- I. Chapter 34, Navigation
- (1) Refer to 34-10-01, Figure 02, No. 1 Air Data Computer (ADC)
  - (2) Refer to 34-25-01, Figure 03, Electronic Standby Instrument System - RSC
  - (3) Refer to 34-25-03, Figure 01, Electronic Standby Instrument System
  - (4) Refer to 34-25-04, Figure 01, Electronic Standby Instrument System
- J. Chapter 74, Ignition
- (1) Refer to 74-11-01, Figure 02, Left Engine
  - (2) Refer to 74-11-02, Figure 02, Right Engine
- K. Chapter 76, Engine Controls
- (1) Refer to 76-21-01, Figure 03, Left Fuel
  - (2) Refer to 76-21-02, Figure 03, Right Fuel
- L. Chapter 77, Engine Indicating
- (1) Refer to 77-10-01, Figure 03, Engine Indicating - No. 1 DCU

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- (2) Refer to 77-10-02, Figure 02, Engine Indicating - No. 1 DCU
  - (3) Refer to 77-10-05, Figure 02, Engine Indicating - No. 2 DCU
  - (4) Refer to 77-10-07, Figure 02, Engine Indicating - No. 1 & No. 2 EDC
  - (5) Refer to 77-12-01, Figure 02, Turbine Tachometers
- M. Chapter 80, Starting
- (1) Refer to 80-11-01, Figure 02, Engine Start

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**INSPECTION PROGRAM AND AIRWORTHINESS LIMITATIONS**

**1. Continuous Inspection Program**

A. This ICA Supplement affects the current inspection program.

**2. Airworthiness Limitations**

A. Textron Aviation, Beechcraft Model B300/B300C Airworthiness Limitations Manual (130-590031-211), contains the system and airframe limitations for the Model B300/B300C.

**NOTE:** The Airworthiness Limitations section is FAA-approved and specifies maintenance required under Section 43.16 and 91.403 of Title 14 Code of Federal Regulations, unless an alternative program has been FAA approved.

(1) There are no new (or additional) airworthiness limitations associated with this equipment and/or installation.

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**INSPECTION TIME LIMITS**

**1. Inspection Items**

<b>TASK NUMBER</b>	<b>TASK TITLE</b>	<b>INTERVAL</b>	<b>CH SE SU</b>	<b>ZONE</b>
21-10-05-2100	Environmental Bleed Air Flow Control Valve General Visual Inspection	Detail 2	05-21-02	410, 420
21-30-00-2100	Pressurization Ducts General Visual Inspection	Every 2500 Cycles or 72 Months, Whichever Occurs First	05-21-13	141, 142, 143, 151, 152, 153, 161, 162, 163, 171, 172
21-30-00-2101	Pressurization Controller General Visual Inspection (FL-1010, FL-1031 thru FL-1200, FL-1202 thru FL-1233; FM-66 thru FM-97)	Detail 3	05-21-03	243
21-30-00-2102	Cabin Pressurization Overboard Dump System General Visual Inspection	Details 1, 4	05-21-01	311, 312
21-30-00-7100	Flapper Valve Operational Check	Every 2500 Cycles or 72 Months, Whichever Occurs First	05-21-13	151, 142, 143
21-30-00-7200	Cabin Altitude Limit Controllers Functional Check (FL-1010, FL-1031 thru FL-1200, FL-1202 thru FL-1233; FM-66 thru FM-97)	Detail 3	05-21-03	280
21-30-01-1600	Pressurization Controller Filter Cleaning (FL-1010, FL-1031 thru FL-1200, FL-1202 thru FL-1233; FM-66 thru FM-97)	Detail 3	05-21-03	243
21-30-03-1600	Outflow Valve Control Line Draining (FL-1010, FL-1031 thru FL-1200, FL-1202 thru FL-1233, and FM-66 thru FM-97)	Details 1, 2, 3, 4	05-21-01	281, 282
21-30-03-1601	Outflow and Safety Valves Servicing (FL-1010, FL-1031 thru FL-1200, FL-1202 thru FL-1233; FM-66 thru FM-97)	Detail 3	05-21-03	281, 282
21-30-03-2100	Outflow and Safety Valves General Visual Inspection (FL-1010, FL-1031 thru FL-1200, FL-1202 thru FL-1233; FM-66 thru FM-97)	Detail 3	05-21-03	280
21-30-03-7200	Outflow and Safety Valves Functional Check (FL-1010, FL-1031 thru FL-1200, FL-1202 thru FL-1233; FM-66 thru FM-97)	Detail 3	05-21-03	280
21-30-11-7200	Cabin Altitude High Warning Pressure Switch Functional Check	Every 12 Months	05-21-08	253

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TASK NUMBER	TASK TITLE	INTERVAL	CH SE SU	ZONE
21-31-00-7200	Pressurization System Tubing Leak Functional Check (FL-1201, FL-1234 and After; FM-98 and After with 7.0 PSI Pressurization System)	Detail 4	05-21-04	280
21-31-00-7201	Outflow Valve Functional Check (FL-1201, FL-1234 and After; FM-98 and After with 7.0 PSI Pressurization System)	Detail 4	05-21-04	280
21-31-00-7202	Pressurization CAS Messages Functional Test (FL-1201, FL-1234 and After; FM-98 and After with 7.0 PSI Pressurization System) NOTE: Only the Cabin Altitude High CAS Message Test procedure in Task 21-31-00-7202 needs to be performed at the Inspection Detail 8 interval.	Details 3, 8	05-21-03	248, 280
21-31-01-7200	Pressurization System Tubing Leak Functional Check (FL-1201, FL-1234 and After; FM-98 and After with 6.5 PSI Pressurization System)	Detail 4	05-21-06	280
21-31-01-7201	Outflow Valve Functional Test (FL-1201, FL-1234 and After; FM-98 and After with 6.5 PSI Pressurization System)	Detail 4	05-21-04	280
21-31-01-7202	Pressurization CAS Messages Functional Test (FL-1201, FL-1234 and After; FM-98 and After with 6.5 PSI Pressurization System) NOTE: Only the Cabin Altitude High CAS Message Test procedure in Task 21-31-01-7202 needs to be performed at the Inspection Detail 8 interval.	Details 3, 8	05-21-08	248, 280
21-51-01-1600	Cabin Air Filter Cleaning (FL-954, FL-1010, FL-1031 and On)	Details 1, 3	05-21-01	200
21-51-01-2100	Refrigerant Lines, Service Valves and High Pressure Relief Valves (Nose) General Visual Inspection	Detail 4	05-21-04	120
21-51-01-2101	Refrigerant Lines and Service Valves (Flight Compartment) General Visual Inspection	Detail 3	05-21-03	131, 132, 231, 232
21-51-01-2102	Refrigerant Lines and Pressure Switches (Wing) General Visual Inspection	Detail 1	05-21-01	612
21-51-01-2103	Refrigerant Lines and Service Valve (Engine and Cowling) General Visual Inspection	Details 2, 4	05-21-02	120
21-51-01-2104	Environmental System (Flight Compartment) General Visual Inspection	Detail 3	05-21-03	131, 132, 231, 232

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TASK NUMBER	TASK TITLE	INTERVAL	CH SE SU	ZONE
21-51-01-2105	Environmental System (Cabin) General Visual Inspection	Every 2500 Cycles or 72 Months, Whichever Occurs First	05-21-13	131, 132, 141, 142, 143, 151, 152, 153, 161, 162, 163, 171, 172
21-51-01-2106	Flight Compartment and Cabin with Interiors Removed General Visual Inspection	Every 2500 Cycles or 72 Months, Whichever Occurs First	05-21-13	240, 260, 270, 280
21-51-01-2107	Air Conditioning Compressor General Visual Inspection	Details 2, 4	05-21-02	420
21-51-01-2108	Air-Conditioning Condenser General Visual Inspection	Detail 1	05-21-01	220
21-51-01-2109	Condenser Blower General Visual Inspection	Detail 2	05-21-02	121, 122
21-51-01-6400	Compressor Quill Shaft Lubrication	Details 2, 4	05-21-02	410, 420
21-52-01-2100	Condenser Blower General Visual Inspection (FL-1300, FL-1307 and After; FM-110 and After)	Every 12 Months	05-21-08	112
21-52-01-2101	Receiver/Dryer General Visual Inspection (FL-1300, FL-1307 and After; FM-110 and After)	Every 12 Months	05-21-08	121
21-52-01-2102	Cockpit Evaporator General Visual Inspection (FL-1300, FL-1307 and After; FM-110 and After)	Every 12 Months	05-21-08	121
21-52-01-2103	Cabin Evaporator General Visual Inspection (FL-1300, FL-1307 and After; FM-110 and After)	Every 12 Months	05-21-08	163
21-52-11-1600	Condenser Assembly Coil Cleaning (FL-1300, FL-1307 and After; FM-110 and After)	Every 12 Months	05-21-08	122
21-52-11-2100	Condenser Coil General Visual Inspection (FL-1300, FL-1307 and After; FM-110 and After)	Every 12 Months	05-21-08	122
21-52-11-2101	Condenser Upper and Lower Mounting Brackets and Hardware General Visual Inspection (FL-1300, FL-1307 and After; FM-110 and After)	Detail 4	05-21-04	120
22-10-00-2100	Autopilot Components General Visual Inspection	Detail 3	05-21-03	151, 152, 153, 161, 162, 163, 171, 172
22-10-00-2200	Primary Controls Servo Mount Slip Clutch Detailed Inspection	Every 12,000 Hours	05-21-27	310

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TASK NUMBER	TASK TITLE	INTERVAL	CH SE SU	ZONE
22-10-07-2200	Autopilot (Aileron) Servo and Cable Detailed Inspection	Details 1, 3, 4	05-21-01	163
22-10-11-2200	Autopilot (Rudder) Servo and Cable Detailed Inspection	Details 1, 3, 4	05-21-01	331, 340
22-10-11-6400	Rudder Servo and Mount Lubrication	Every 6500 Hours or 48 Months, Whichever Occurs First	05-21-45	313
22-10-15-2200	Autopilot (Elevator) Servo and Cable Detailed Inspection	Details 1, 3, 4	05-21-01	331, 351, 352
22-10-19-2200	Autopilot (Elevator Trim Tab) Servo and Cable Detailed Inspection	Details 1, 3, 4	05-21-01	331, 351, 352
22-10-25-7100	Autopilot Disconnect Aural Warning Operational Check (FL-954, FL-1010, FL-1031 thru FL-1139, FM-1 thru FM-75)	Detail 3	05-21-03	248
22-10-25-7101	Autopilot Disconnect Aural Warning Operational Check (FL-1140 and After, FM-76 and After)	Detail 3	05-21-03	248
22-10-27-7100	Stall Warning-Autopilot Disconnect Operational Check	Detail 3	05-21-03	248
22-10-29-2200	Elevator Trim Tab Servo Mount Capstan Slip Clutch Detailed Inspection	First 200 Hours, then Every 5000 Hours Thereafter	05-21-30	310
22-30-00-2100	Auto Throttle Assembly General Visual Inspection (FL-1300, FL-1307 and After; FM-110 and After)	Details 1, 2, 3, 4	05-21-02	261, 262
22-30-00-7100	Power Control Lever Movement Operational Check (FL-1300, FL-1307 and After; FM-110 and After)	Details 1, 2, 3, 4	05-21-01	261, 262
22-30-00-7101	Auto Throttle Friction Operational Check (FL-1300, FL-1307 and After; FM-110 and After)	Detail 4	05-21-04	261, 262
22-30-00-7102	Auto Throttle System Override Operational Check (FL-1300, FL-1307 and After; FM-110 and After)	Detail 4	05-21-04	261, 262
23-00-00-2100	Antennas General Visual Inspection	Detail 3	05-21-03	131, 132, 141, 142, 143, 151, 152, 153, 161, 162, 163, 171, 172, 271, 272



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TASK NUMBER	TASK TITLE	INTERVAL	CH SE SU	ZONE
23-00-00-7100	Communications System Operational Check	Details 2, 4	05-21-02	231, 232
23-60-00-2200	Static Dischargers (Wicks) Detailed Inspection	Every 12 Months	05-21-08	340, 360, 543, 550, 643, 650
23-70-11-7100	Cockpit Voice Recorder Beacon Operational Check	Refer to Applicable Vendor Manual	05-21-36	150, 240, 350
24-30-01-2100	Battery General Visual Inspection	Details 1, 2, 3, 4	05-21-01	611
24-30-01-7200	Main Battery, Emergency Capacity Functional Check	Refer to Applicable Vendor Manual	05-21-36	310
24-30-03-2100	Starter-Generator Brushes General Visual Inspection	Details 2, 4	05-21-02	410, 420
24-60-00-7200	Bus Conformity Functional Check.	Detail 3	05-21-03	244, 245, 248
25-10-00-2100	Pilot and Copilot Seat Belt and Shoulder Harness General Visual Inspection	Details 1, 3	05-21-01	261, 262
25-10-00-2101	Pilot and Copilot Seat Tracks General Visual Inspection	Detail 3	05-21-03	241, 242
25-10-03-2100	Upholstery Panels General Visual Inspection	Detail 1	05-21-01	241, 242, 243, 251, 252, 253, 249
25-20-01-2100	Passenger Seat Belt and Shoulder Harness General Visual Inspection	Details 1, 3	05-21-01	261, 262, 281, 282
25-20-01-2101	Passenger Seat Tracks General Visual Inspection	Detail 3	05-21-03	261, 262, 281, 282
25-20-01-7100	Passenger Seats Operational Check	Detail 3	05-21-03	261, 262, 281, 282
25-20-01-7101	Passenger Seat Belt and Shoulder Harness Operational Check	Detail 3	05-21-03	261, 262, 281, 282
25-60-01-2200	Emergency Locator Transmitter (ARTEX C406-N) Battery Detailed Inspection	Every 12 Months	05-21-08	310
25-60-01-7100	Emergency Locator Transmitter (ARTEX C406-N) Operational Check	Details 1, 2, 3, 4	05-21-01	311

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TASK NUMBER	TASK TITLE	INTERVAL	CH SE SU	ZONE
25-60-09-2100	Passenger Seat XF-35 Life Preserver, Part Number 01074-2XX (Initial Visual) General Visual Inspection	5 Years After Being Placed in Service, No Longer than 63 months After Date of Manufacture	05-21-33	280
25-60-09-2101	Emergency and Survival Equipment (If Installed) General Visual Inspection	Details 1, 2, 3, 4	05-21-01	261, 262, 271, 272, 282, 283
25-60-09-2200	Passenger Seat XF-35 Life Preserver, Part Number 01074-2XX (Full Maintenance) Detailed Inspection	10 Years from the Date of Manufacture	05-21-35	280
26-10-00-2100	Fire Detection System General Visual Inspection	Detail 2	05-21-02	410, 420
26-10-00-7200	Fire Detection System Functional Check	Detail 2	05-21-02	410, 420
26-20-05-2100	Engine Fire Extinguisher General Visual Inspection	Details 1, 3	05-21-01	521, 522, 621, 622, 730, 740
26-20-05-7200	Fire Extinguisher Activation Functional Check	Details 1, 3	05-21-01	521, 522, 621, 622, 730, 740
26-21-00-2100	Portable Fire Extinguisher (Flight Compartment) General Visual Inspection	Detail 3	05-21-03	281
26-21-00-2101	Portable Fire Extinguisher (Cabin) General Visual Inspection	Detail 3	05-21-03	281
27-00-00-2100	Flight Control Components, Cables, and Pulleys (Flight Compartment) General Visual Inspection	Detail 3	05-21-03	131, 132, 231, 232
27-00-00-2101	Flight Control Components, Cables, and Pulleys (Cabin) General Visual Inspection	Every 2500 Cycles, or 72 Months, Whichever Occurs First	05-21-13	140, 150, 160, 170
27-00-00-2102	Flight Control Components, Cables, and Pulleys (Wing) General Visual Inspection	Details 1, 3	05-21-01	532, 632, 542, 642
27-00-00-2103	Flight Control Components, Cables, and Pulleys (Rear Fuselage and Empennage) General Visual Inspection	Details 1, 3	05-21-01	311, 312, 320, 330, 340, 350
27-00-00-2104	Control Cable Seals (Cabin) General Visual Inspection	Detail 3	05-21-03	161, 162
27-00-00-2105	Control Cable Seals (Rear Fuselage and Empennage) General Visual Inspection	Details 1, 3	05-21-01	311, 312

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TASK NUMBER	TASK TITLE	INTERVAL	CH SE SU	ZONE
27-00-00-2106	Control Column General Visual Inspection	Detail 3	05-21-03	254, 255
27-00-00-2107	Aileron Quadrant Regulator General Visual Inspection	Detail 3	05-21-03	161
27-00-00-2108	Flaps and Actuators General Visual Inspection	Details 1, 3	05-21-01	513, 613, 532, 632, 533, 633
27-00-00-2109	Flap Motor and Drives General Visual Inspection	Detail 3	05-21-03	163
27-00-00-2110	Inboard Flap General Visual Inspection	Every 3000 Cycles or 36 Months, Whichever Occurs First	05-21-14	513, 613
27-00-00-2111	Outboard Flap General Visual Inspection	Every 3000 Cycles or 36 Months, Whichever Occurs First	05-21-14	533, 633
27-00-00-2112	Aileron, Outboard Flap and Inboard Flap General Visual Inspection	Detail 1	05-21-01	532, 542, 632, 642
27-00-00-2113	Flight Control Systems within the Fuselage Pressure Vessel General Visual Inspection	First 200 Hours (New Airplane Only)	05-21-26	231, 232, 271, 272, 261, 262, 281, 282
27-00-00-2114	Flap Tracks General Visual Inspection	Details 1, 3	05-21-01	513, 533, 613, 633
27-00-00-2200	Control Cable Tension Detailed Inspection	First 200 Hours on a New Airplane / After New Cable Installation or Rigging Break Initial, then Every 48 Months Thereafter	05-21-25	150, 310, 512
27-00-00-2201	Flight Controls (Priority Area) Detailed Inspection	First 10,000 Cycles, then Every 5000 Cycles Thereafter	05-21-24	131, 143, 151, 153, 161, 162, 163, 171, 173, 311, 313, 331, 351, 352, 512, 611, 612
27-00-00-2202	Aileron (Left and Right) Detailed Inspection	Detail 1	05-21-01	543, 643

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<b>TASK NUMBER</b>	<b>TASK TITLE</b>	<b>INTERVAL</b>	<b>CH SE SU</b>	<b>ZONE</b>
27-00-00-6400	Flight Controls (200 Hour) Lubrication	Details 1, 2, 3, 4	05-21-01	330, 340, 350, 500, 600
27-00-00-6401	Aileron Control System (400 Hour) Lubrication	Details 2, 4	05-21-04	542, 642
27-00-00-6402	Control Column (800 Hour) Lubrication	Detail 4	05-21-04	143
27-00-00-6403	Flap Actuator Pistons (1200 Hour) Lubrication	Every 1200 Hours	05-21-09	532, 632
27-00-00-6404	Flap Motor and Gearbox (1200 Hour) Lubrication	Every 1200 Hours	05-21-09	163
27-00-00-6405	Flight Controls (1200 Hour) Lubrication	Every 1200 Hours	05-21-09	161, 162, 171, 512, 612, 311
27-00-00-7100	Control Column Operational Check	Detail 3	05-21-03	254, 255
27-00-00-9600	Flap Motor, Gearbox, Actuators and 90 Degree Drives Restoration	Every 10,000 Cycles	05-21-21	512, 532, 612, 632
27-10-05-2200	Control Column Bearing Support Detailed Inspection	Detail 3	05-21-03	143
27-10-15-6400	Aileron Trim Tab Actuator Lubrication	Details 2, 4	05-21-02	542, 642
27-10-15-7200	Aileron Trim Tab Free Play Functional Check	Every 1200 Hours	05-21-09	543, 643
27-20-09-2100	Rudder Pedals General Visual Inspection	Detail 3	05-21-03	131, 132, 231, 232
27-20-09-2200	Rudder Pedal Arm Detailed Inspection	Detail 3	05-21-03	131, 132, 231, 232
27-20-09-6400	Rudder Control System (200 Hour) Lubrication	Details 1, 2, 3, 4	05-21-01	330, 340
27-20-09-6401	Rudder Control System (400 Hour) Lubrication	Details 2, 4	05-21-02	231, 232, 240
27-20-11-6400	Rudder Trim Tab Actuator Lubrication	Details 2, 4	05-21-02	331
27-20-11-7200	Rudder Trim Tab Free Play (Except Model 350ER/CER) Functional Check	Every 1200 Hours	05-21-09	340
27-20-19-7200	Rudder Trim Tab Free Play (Model 350ER/CER) Functional Check	Every 1200 Hours	05-21-09	340
27-21-01-2100	Rudder Boost Transducer General Visual Inspection	Detail 2	05-21-02	410, 420
27-30-07-6400	Elevator Trim Tab Actuator Lubrication	Details 2, 4	05-21-02	351
27-30-07-7200	Elevator Trim Tab Free Play Functional Check	Every 1200 Hours	05-21-09	360
27-30-21-2200	Elevator Bob-Weight and Stop Detailed Inspection	Detail 3	05-21-03	131, 143

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TASK NUMBER	TASK TITLE	INTERVAL	CH SE SU	ZONE
27-30-23-2200	Elevator Bob-Weight Link Assembly Detailed Inspection	Every 5000 Hours	05-21-17	131, 143
27-31-01-7100	Stall Warning Heat Operational Check	Detail 3	05-21-03	522
27-50-11-7200	Flap Safety Mechanism Functional Check	Details 1, 3	05-21-01	513, 613, 532, 632, 533, 633
27-50-13-2200	Flap Flexible Drive Shafts Detailed Inspection	Every 5000 Cycles	05-21-16	513, 533, 613, 633
27-70-01-2100	Control Lock General Visual Inspection	Every 12 Months	05-21-08	254, 255
28-20-00-2100	Fuel Pumps General Visual Inspection	Details 1, 2, 3, 4	05-21-01	512, 612
28-20-00-2101	Leading Edge and Nacelle Fuel Plumbing General Visual Inspection	Detail 1	05-21-01	410, 420, 521, 621
28-20-00-2102	Nacelle Fuel Cell General Visual Inspection	Detail 1	05-21-01	521, 621
28-20-00-2103	Fuel Tanks and Vents General Visual Inspection	Details 1, 2, 3, 4	05-21-01	500, 600
28-20-00-2104	Fuel Probes General Visual Inspection	Details 1, 2, 3, 4	05-21-01	512, 521, 532, 541, 542, 612, 621, 632, 641, 642
28-20-00-2105	Integral Fuel Tank General Visual Inspection	Details 1, 2, 3, 4	05-21-01	532, 542, 632, 642
28-20-00-2106	Center Section General Visual Inspection	Detail 1	05-21-01	511, 512, 611, 612
28-20-00-2200	Airframe Fuel Filters and Screens Detailed Inspection	Details 1, 2, 3, 4	05-21-01	521, 621
28-20-00-2201	Nacelle and AUX Fuel Cells and Probes Detailed Inspection	Every 2400 Hours or 30 Months, Whichever Occurs First	05-21-11	511, 512, 531, 532, 541, 542, 611, 612, 631, 632, 641, 642
28-20-00-7100	Fuel Tank Vents Operational Check	Details 1, 2, 3, 4	05-21-01	512, 612
28-21-00-2200	Extended Range Fuel Tank (Model 350ER/CER) Detailed Inspection	Details 1, 2, 3, 4	05-21-01	410, 420, 521, 621
28-21-00-7200	Fuel Transfer Functional Check (Model 350ER/CER)	Detail 3	05-21-03	521, 522, 621, 622
30-10-00-2100	Pneumatic Pressure Regulator, Vacuum Ejector and Deicer General Visual Inspection	Detail 3	05-21-03	141, 142, 151, 161, 162, 163
30-10-01-7100	Deicer Boots Operational Check	Details 1, 3	05-21-01	320, 330, 350

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30-20-01-2200	Induction System Detailed Inspection	Detail 2	05-21-02	410, 420
30-20-01-7100	Engine Induction System Operational Check	Details 1, 2, 3, 4	05-21-01	410, 420
30-40-13-2100	Window Defog System General Visual Inspection	Detail 3	05-21-03	163
30-60-01-2100	Propeller Deicer Boots General Visual Inspection	Details 1, 2, 3, 4	05-21-01	410, 420
31-10-00-2100	Pedestal General Visual Inspection	Detail 3	05-21-03	243
31-10-00-2101	Instrument Panel, Plumbing and Wiring General Visual Inspection	Detail 3	05-21-03	221, 222, 242, 244, 245, 246, 247, 248, 249, 253
31-10-00-2102	Pilot's Fuel Control Panel and Lower Panel, Copilot's Circuit Breaker Panel and Other Wiring Circuitry Below the Storm Windows General Visual Inspection	Every 12 Months	05-21-08	246, 247
31-30-00-7100	Digital Flight Data Recorder Operational Check	Every 12 Months	05-21-08	240, 310
31-30-00-7200	Aileron Control Position Transducer Functional Check	Every 12 Months	05-21-08	130, 254, 255
31-30-00-7201	Left and Right Aileron Surface Position Transducer Functional Check	Every 12 Months	05-21-08	130, 240
31-30-00-7202	Aileron Trim Control Position Transducer Functional Check	Every 12 Months	05-21-08	130, 240
31-30-00-7203	Aileron Trim Surface Position Transducer Functional Check	Every 12 Months	05-21-08	240, 532
31-30-00-7204	Elevator Control Position Transducer Functional Check	Every 12 Months	05-21-08	240
31-30-00-7205	Elevator Surface Position Transducer Functional Check	Every 12 Months	05-21-08	240, 360
31-30-00-7206	Elevator Trim Control Position Transducer Functional Check	Every 12 Months	05-21-08	140, 240, 360
31-30-00-7207	Elevator Trim Surface Position Transducer Functional Check	Every 12 Months	05-21-08	240, 330
31-30-00-7208	Rudder Control Position Transducer Functional Check	Every 12 Months	05-21-08	130, 240, 340
31-30-00-7209	Rudder Surface Position Transducer Functional Check	Every 12 Months	05-21-08	240, 310
31-30-00-7210	Rudder Trim Control Position Transducer Functional Check	Every 12 Months	05-21-08	140, 340
31-30-00-7211	Rudder Trim Surface Position Transducer Functional Check	Every 12 Months	05-21-08	240, 340

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TASK NUMBER	TASK TITLE	INTERVAL	CH SE SU	ZONE
31-30-00-7212	Left and Right Power Lever Position Transducer Functional Check	Every 12 Months	05-21-08	130, 240
31-30-00-7213	Left and Right Prop Lever Position Transducer Functional Check	Every 12 Months	05-21-08	240
31-30-00-7214	Rudder Pedal Input Forces Transducer Functional Check	Every 12 Months	05-21-08	130, 240
31-30-00-7215	Control Wheel/Column Forces Transducer Functional Check	Every 12 Months	05-21-08	240
31-30-00-7216	Brake Hydraulic Pressure Transducer Functional Check	Every 12 Months	05-21-08	150, 240
31-30-00-7217	Brake Pedal Switch Functional Check	Every 12 Months	05-21-08	240
31-30-00-7218	Flap Symmetry Functional Check	Every 12 Months	05-21-08	240, 310
31-30-00-7219	Prop Reverse Switch Functional Check	Every 12 Months	05-21-08	240, 243
31-30-00-7220	PFD1 and PFD2 429 Buses Functional Check	Every 12 Months	05-21-08	240, 310
31-30-00-7221	Flap Surface Position Sensor Functional Check	Every 12 Months	05-21-08	240, 512, 612
31-30-00-7222	Accelerometer Functional Check	Every 12 Months	05-21-08	150, 240
31-30-00-7223	Digital Flight Data Recorder Underwater Locator Beacon Functional Check	Every 24 Months	05-21-12	240, 310
32-10-03-2100	Main Landing Gear Wheels General Visual Inspection	Details 1, 2, 3, 4	05-21-01	730, 740
32-10-03-2101	Electrical Wiring and Equipment (Main Landing Gear) General Visual Inspection	Details 1, 2, 3, 4	05-21-01	511, 512, 611, 612, 730, 740
32-10-03-2102	Main Landing Gear Drag Brace General Visual Inspection	Detail 4	05-21-06	730, 740
32-10-03-2103	Main Landing Gear Area General Visual Inspection	Detail 4	05-21-04	730, 740
32-10-03-2200	Main Landing Gear Tire Detailed Inspection	Details 1, 2, 3, 4	05-21-01	730, 740
32-10-03-2201	Main Landing Gear Shock Absorber Assembly (Paved Runway) Detailed Inspection	Every 8000 Cycles or 6 Years, Whichever Occurs First	05-21-20	730, 740
32-10-03-2202	Main Landing Gear Shock Absorber Assembly (Unpaved Runway) Detailed Inspection	Every 8000 Cycles or 3 Years, Whichever Occurs First	05-21-19	730, 740

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TASK NUMBER	TASK TITLE	INTERVAL	CH SE SU	ZONE
32-10-03-2203	Main Landing Gear Drag Brace Assembly (Paved Runway) Detailed Inspection	Every 8000 Cycles or 6 Years, Whichever Occurs First	05-21-20	730, 740
32-10-03-2204	Main Landing Gear Drag Brace Assembly (Unpaved Runway) Detailed Inspection	Every 8000 Cycles or 3 Years, Whichever Occurs First	05-21-19	730, 740
32-10-03-2205	Main Landing Gear Axle Assembly and Torque Knees (Paved Runway) Detailed Inspection	Every 8000 Cycles or 6 Years, Whichever Occurs First	05-21-20	730, 740
32-10-03-2206	Main Landing Gear Axle Assembly and Torque Knees (Unpaved Runway) Detailed Inspection	Every 8000 Cycles or 3 Years, Whichever Occurs First	05-21-19	730, 740
32-10-03-2207	Main Landing Gear Trunnion Bolt Holes and Drag Brace Attach Holes (Paved Runway) Detailed Inspection	Every 8000 Cycles or 6 Years, Whichever Occurs First	05-21-20	730, 740
32-10-03-2208	Main Landing Gear Trunnion Bolt Holes and Drag Brace Attach Holes (Unpaved Runway) Detailed Inspection	Every 8000 Cycles or 3 Years, Whichever Occurs First	05-21-19	730, 740
32-10-03-2209	Main Landing Gear Wheels Detailed Inspection	Refer to Component Maintenance Manual	05-21-38	730, 740
32-10-03-2210	Main Landing Gear Doors and Linkage Detailed Inspection	Detail 4	05-21-04	730, 740
32-10-03-2211	Landing Gear Struts Detailed Inspection	Details 1, 2, 3, 4	05-21-01	710, 730, 740
32-10-03-6400	Landing Gear (200 Hour) Lubrication	Details 1, 2, 3, 4	05-21-01	710, 730, 740
32-10-03-6401	Main Landing Gear Door Linkage Lubrication	Details 2, 4	05-21-02	730, 740, 800
32-10-03-6402	Landing Gear (800 Hour) Lubrication	Detail 4	05-21-04	710, 730, 740, 800
32-10-03-6403	Main Landing Gear Lubrication	Every 800 Hours or 24 Months, Whichever Occurs First	05-21-43	730, 740



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32-10-03-7100	Main Landing Gear Safety Switch Operational Check	Detail 4	05-21-04	710, 730, 740
32-20-03-2100	Steering Linkage General Visual Inspection	Details 1, 3, 4	05-21-01	710
32-20-03-2101	Nose Landing Gear Steering Stop General Visual Inspection	Details 1, 2, 3, 4	05-21-01	710
32-20-03-2102	Nose Landing Gear Wheel General Visual Inspection	Details 1, 2, 3, 4	05-21-01	710
32-20-03-2103	Electrical Wiring and Equipment (Nose Landing Gear) General Visual Inspection	Detail 3	05-21-06	710
32-20-03-2104	Nose Landing Gear Area General Visual Inspection	Detail 4	05-21-04	710
32-20-03-2200	Nose Landing Gear Lower Drag Leg Detailed Inspection	Detail 4	05-21-04	710
32-20-03-2201	Nose Landing Gear Tire Detailed Inspection	Details 1, 2, 3, 4	05-21-01	710
32-20-03-2202	Nose Landing Gear Shock Absorber Assembly (Paved Runway) Detailed Inspection	Every 8000 Cycles or 6 Years, Whichever Occurs First	05-21-20	710
32-20-03-2203	Nose Landing Gear Shock Absorber Assembly (Unpaved Runway) Detailed Inspection	Every 8000 Cycles or 3 Years, Whichever Occurs First	05-21-19	710
32-20-03-2204	Nose Landing Gear Drag Brace Assembly (Paved Runway) Detailed Inspection	Every 8000 Cycles or 6 Years, Whichever Occurs First	05-21-20	710
32-20-03-2205	Nose Landing Gear Drag Brace Assembly (Unpaved Runway) Detailed Inspection	Every 8000 Cycles or 3 Years, Whichever Occurs First	05-21-19	710
32-20-03-2206	Nose Landing Gear Axle Assembly and Torque Knees (Paved Runway) Detailed Inspection	Every 8000 Cycles or 6 Years, Whichever Occurs First	05-21-20	710
32-20-03-2207	Nose Landing Gear Axle Assembly and Torque Knees (Unpaved Runway) Detailed Inspection	Every 8000 Cycles or 3 Years, Whichever Occurs First	05-21-19	710

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TASK NUMBER	TASK TITLE	INTERVAL	CH SE SU	ZONE
32-20-03-2208	Nose Landing Gear Trunnion Bolt Holes and Drag Brace Attach Holes (Paved Runway) Detailed Inspection	Every 8000 Cycles or 6 Years, Whichever Occurs First	05-21-20	710
32-20-03-2209	Nose Landing Gear Trunnion Bolt Holes and Drag Brace Attach Holes (Unpaved Runway) Detailed Inspection	Every 8000 Cycles or 3 Years, Whichever Occurs First	05-21-19	710
32-20-03-2210	Nose Landing Gear Wheel Detailed Inspection	Refer to Component Maintenance Manual	05-21-38	710
32-20-03-2211	Nose Landing Gear Doors and Linkage Detailed Inspection	Detail 4	05-21-04	710
32-20-09-2100	Nose Landing Gear Drag Brace General Visual Inspection	Details 1, 2, 3, 4	05-21-01	710
32-20-11-2100	Shimmy Damper General Visual Inspection	Details 1, 2, 3, 4	05-21-01	710
32-30-00-2100	Manual Landing Gear Extension Handle General Visual Inspection	Detail 3	05-21-03	241, 243
32-30-00-2101	Landing Gear Power Pack and Motor General Visual Inspection	Detail 4	05-21-04	511
32-30-00-2102	Emergency Extension Hand Pump Suction Line Filter General Visual Inspection	Detail 4	05-21-04	131
32-30-00-2103	Bleed Air Pressure Overboard Relief Orifice Screen General Visual Inspection	Detail 4	05-21-04	511
32-30-00-7100	Emergency Extension Operational Check	Detail 4	05-21-04	700
32-30-00-7101	Position Indicators and Warning Horn Operational Check	Detail 4	05-21-04	231, 232, 710, 730, 740
32-30-00-7102	Actuators Operational Check	Detail 4	05-21-04	710, 730, 740
32-30-00-7200	Landing Gear Power Pack Motor 20 Second Time Delay Relay Functional Check	Detail 4	05-21-04	512, 612
32-30-00-7201	Retract Mechanism Functional Check	Detail 4	05-21-04	710, 730, 740
32-30-01-2100	Landing Gear Hydraulic Fill Reservoir Screen General Visual Inspection	First 200 Hours, then Every 1200 Hours Thereafter	05-21-29	511

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TASK NUMBER	TASK TITLE	INTERVAL	CH SE SU	ZONE
32-30-01-2101	Landing Gear Hydraulic Lines General Visual Inspection	Detail 3	05-21-03	151, 152, 153, 161, 162, 163, 171, 172, 261, 262, 281, 282
32-30-03-2200	Downlock Mechanism Detailed Inspection	Detail 4	05-21-04	730, 740
32-30-05-2100	Main Landing Gear Actuator General Visual Inspection	Details 2, 4	05-21-02	730, 740
32-30-05-2200	Main Landing Gear Actuator Clevis/Bolt/Lock Tag Detailed Inspection	Every 1000 Cycles	05-21-10	730, 740
32-30-11-2100	Nose Landing Gear Actuator General Visual Inspection	Details 2, 4	05-21-02	710
32-30-11-2200	Nose Landing Gear Actuator Clevis Detailed Inspection	Every 1000 Cycles	05-21-10	710
32-40-01-1600	Brake Fluid Reservoir Pressure Equalization Line and Orifice Cleaning	Detail 3	05-21-03	221, 222
32-40-01-2100	Brakes General Visual Inspection	Details 1, 2, 3, 4	05-21-06	710, 730, 740
32-40-01-2101	Brake System General Visual Inspection	Detail 3	05-21-03	131, 132, 221, 222, 231, 232
32-43-00-2100	Brake Deice System (If Installed) General Visual Inspection	Details 1, 2, 3, 4	05-21-01	710, 730, 740
33-10-01-2200	Cabin Edgelighted Panel Assemblies Detailed Inspection	Every 2000 Hours or 48 Months, Whichever Occurs First	05-21-46	261, 262, 271, 272, 281, 282
33-40-00-2100	Lower Rotating Beacon Light General Visual Inspection	Details 1, 2, 3, 4	05-21-01	163, 350
33-40-00-2101	Navigation Light and Upper Beacon Light General Visual Inspection	Details 1, 3	05-21-01	350, 550, 650
33-40-00-2102	Landing and Taxi Lights General Visual Inspection	Details 1, 3	05-21-01	710, 730, 740
33-40-00-2103	Lights (Wing) General Visual Inspection	Details 1, 2, 3, 4	05-21-01	550, 650
33-50-00-2100	Emergency Exit Lights General Visual Inspection	Details 1, 2, 4	05-21-01	261, 262, 271, 272
33-50-00-2101	Emergency Exit Lights (Detail 3) General Visual Inspection	Detail 3	05-21-03	261, 262
34-10-00-2200	Air Data System and Transponder Detailed Inspection	Every 24 Months	05-21-12	240, 310

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TASK NUMBER	TASK TITLE	INTERVAL	CH SE SU	ZONE
34-10-07-2100	Standby Display Unit (SDU) General Visual Inspection (FL-1300, FL-1307 and After; FM-110 and After)	Every 24 Months	05-21-12	231, 232
34-10-07-2101	Remote Standby Controller (RSC) General Visual Inspection (FL-1300, FL-1307 and After; FM-110 and After)	Every 24 Months	05-21-12	231, 232
34-10-07-7200	Pitot and Static System Functional Check	Every 24 Months	05-21-12	240, 310
34-10-09-2200	Air Data System (RVSM Compliant Airplanes) Detailed Inspection	Every 24 Months	05-21-12	310
34-23-07-7200	Electronic Standby Instrument System (ESIS) Battery (PS-835D) Functional Check	Refer to Applicable Vendor Manual	05-21-36	220
35-00-00-2100	Oxygen Bottle Plumbing General Visual Inspection	Detail 1	05-21-01	282, 311, 312
35-00-00-2101	Oxygen System Pressure General Visual Inspection	Details 1, 2, 3, 4	05-21-01	282
35-00-00-2102	Oxygen System General Visual Inspection	Every 2500 Cycles or 72 Months, Whichever Occurs First	05-21-13	240, 260, 270, 280
35-00-00-7200	Oxygen System Barometric Pressure Switch Functional Check	Every 12 Months	05-21-08	262
35-00-00-7201	Oxygen System Manual Operation Functional Check	Details 1, 3	05-21-01	282
35-10-01-2200	Crew Masks Detailed Inspection	Every 12 Months	05-21-08	240
35-10-01-9600	Crew Masks Restoration	Refer to the Vendor Component Maintenance Manual	05-21-37	240
35-20-05-2200	Passenger Masks Detailed Inspection	Refer to 174095-SIL-1 or Subsequent	05-21-41	270
35-20-05-7100	Oxygen System Masks Operational Check	Detail 3	05-21-03	261, 262, 281, 282
35-20-05-7101	Passenger Masks Operational Check	Every 12 Months	05-21-08	240
37-10-01-1600	Vacuum Regulator Valve Filter Cleaning	Details 1, 4	05-21-01	121
38-30-00-2100	Relief Tube (If Installed - Flight Compartment) General Visual Inspection	Detail 3	05-21-03	221, 222

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TASK NUMBER	TASK TITLE	INTERVAL	CH SE SU	ZONE
38-30-00-2101	Relief Tube (If Installed - Cabin) General Visual Inspection	Detail 3	05-21-03	151, 152, 153, 161, 162, 163, 171, 172
38-30-01-2100	Toilet General Visual Inspection	Details 1, 3	05-21-01	282
51-00-00-2800	Wing Center Section Bonded Panel Upper Skin Special Detailed Inspection	First 600 Hours, then Every 18 Months Thereafter	05-21-31	141, 142, 143, 151, 152, 153, 161, 162, 163
52-10-01-2100	Cabin Entrance Door General Visual Inspection (FL-954, FL-1010, FL-1031 and On)	Detail 1	05-21-01	830
52-10-01-2200	Cabin Entrance Door Detailed Inspection (FL-954, FL-1010, FL-1031 and On)	Detail 3	05-21-03	830
52-10-01-6400	Cabin Door Lubrication	Details 1, 2, 3, 4	05-21-01	830
52-10-01-7100	Cabin Entrance Door Operational Check	Detail 3	05-21-03	830
52-20-01-2200	Cabin Door and Emergency Exits Detailed Inspection	Detail 3	05-21-03	821, 822, 830
52-20-01-2201	Emergency Exits Detailed Inspection	Detail 3	05-21-03	821, 822
52-20-01-6400	Emergency Exit Door (800 Hour) Lubrication	Detail 4	05-21-04	821, 822
52-30-00-2100	Cabin Cargo Door and Cabin Entrance Door General Visual Inspection (FM-66 and On)	Detail 1	05-21-01	830
52-30-00-2200	Cabin Cargo Door and Cabin Entrance Door Detailed Inspection (FM-66 and On)	Detail 3	05-21-03	830
52-30-00-6400	Cargo Door Lubrication	Details 1, 2, 3, 4	05-21-01	830
52-40-00-2100	Pilot's Compartment Access Doors General Visual Inspection	Details 1, 2, 3, 4	05-21-01	110, 121, 122, 131, 132, 211, 212, 221, 222, 231, 232
52-40-00-2101	Cabin Access Doors General Visual Inspection	Details 1, 2, 3, 4	05-21-01	141, 142, 143, 151, 152, 153, 161, 162, 163, 171, 172, 261, 262, 271, 272, 281, 282

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TASK NUMBER	TASK TITLE	INTERVAL	CH SE SU	ZONE
52-40-00-2102	Rear Fuselage and Empennage Access Doors General Visual Inspection	Details 1, 2, 3, 4	05-21-01	311, 312, 320, 330, 340, 350
52-40-00-2103	Wing Access Doors General Visual Inspection	Details 1, 2, 3, 4	05-21-01	500, 600
52-40-00-2104	Hinged Access Doors Above Doors No. 532CB, 532HB, 632CB, and 632HB General Visual Inspection	Detail 1	05-21-01	532, 632
52-40-00-2105	Doors, Fasteners and Seals (Nose and Avionics Bay) General Visual Inspection	Details 1, 4	05-21-01	811, 812
53-00-00-2100	Radome General Visual Inspection	Details 1, 4	05-21-01	110
53-00-00-2101	Avionics Compartment, Equipment and Racks (Nose and Avionics Bay) General Visual Inspection	Details 2, 4	05-21-04	120
53-00-00-2102	Avionics Equipment and Racks (Cabin - If Installed) General Visual Inspection	Every 2500 Cycles or 72 Months, Whichever Occurs First	05-21-13	280
53-00-00-2103	Flight Compartment Structure General Visual Inspection	Every 2500 Cycles or 72 Months, Whichever Occurs First	05-21-13	121, 122, 131, 132, 211, 212, 221, 222, 231, 232
53-00-00-2104	Cabin Area Structure General Visual Inspection	Every 2500 Cycles or 72 Months, Whichever Occurs First	05-21-13	131, 132, 141, 142, 143, 151, 152, 153, 161, 162, 163, 171, 172, 261, 262, 271, 272, 281, 282
53-00-00-2105	Bulkheads General Visual Inspection	Detail 3	05-21-03	280
53-00-00-2106	Belly Drain Valves General Visual Inspection	Detail 3	05-21-03	151, 152, 153, 161, 162, 163, 171, 172
53-00-00-2107	Avionics and Autopilot Equipment and Racks (Rear Fuselage and Empennage) General Visual Inspection	Details 1, 3	05-21-05	311, 312
53-00-00-2108	Plumbing (Rear Fuselage and Empennage) General Visual Inspection	Details 1, 4	05-21-01	300, 310

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TASK NUMBER	TASK TITLE	INTERVAL	CH SE SU	ZONE
53-00-00-2109	Electrical Wiring and Equipment (Nose and Avionics Bay) General Visual Inspection	Details 1, 3	05-21-06	131, 132, 231, 232
53-00-00-2110	Electrical Wiring and Equipment (Flight Compartment) General Visual Inspection	Every 2500 Cycles or 72 Months, Whichever Occurs First	05-21-13	131, 132, 231, 232
53-00-00-2111	Electrical Wiring and Equipment (Cabin) General Visual Inspection	Every 2500 Cycles or 72 Months, Whichever Occurs First	05-21-13	131, 132, 141, 142, 143, 151, 152, 153, 161, 162, 163, 171, 172
53-00-00-2112	Electrical Wiring and Equipment (Rear Fuselage and Empennage) General Visual Inspection	Details 1, 3	05-21-05	311, 312, 320, 330, 350
53-00-00-2113	Nose Section General Visual Inspection	Detail 4	05-21-04	110, 120
53-00-00-2114	Rear Fuselage and Empennage General Visual Inspection	Details 1, 4	05-21-04	311, 312, 320, 330, 340, 350
53-10-00-2100	Airstair Door, Cargo Door and Fuselage Frame (Priority Area) General Visual Inspection (FM-66 and On)	First 5000 Cycles, then Every 1000 Cycles Thereafter	05-21-18	830
53-10-00-2101	Escape Hatches (Priority Area) General Visual Inspection	First 5000 Cycles, then Every 1000 Cycles Thereafter	05-21-18	821, 822
53-10-00-2102	Forward Pressure Bulkhead (Priority Area) General Visual Inspection	Every 2500 Cycles or 72 Months, Whichever Occurs First	05-21-13	120, 130, 220, 230
53-10-00-2103	Fuselage Frame FS 143 thru FS 382 (Priority Area) General Visual Inspection	Every 2500 Cycles or 72 Months, Whichever Occurs First	05-21-13	140, 150, 160, 170
53-10-00-2104	Frame Web FS 143 thru FS 332 (FL Serial Airplanes) (Priority Area) General Visual Inspection	Every 2500 Cycles or 72 Months, Whichever Occurs First	05-21-13	260, 270, 280

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TASK NUMBER	TASK TITLE	INTERVAL	CH SE SU	ZONE
53-10-00-2105	Frame Web FS 143 Thru FS 332 (FM Serial Airplanes) (Priority Area) General Visual Inspection	Every 2500 Cycles Up To 10,000 Cycles, then Every 1000 Cycles Thereafter	05-21-32	260, 270, 280
53-10-00-2106	Stringers From FS 88 Thru FS 125 and Instrument Panel Support Brackets (Priority Area) General Visual Inspection	Every 10,000 Cycles	05-21-21	221, 222, 231, 232
53-10-00-2107	Aft Fuselage Area and Aft Pressure Bulhead (Priority Area) General Visual Inspection	First 10,000 Cycles then Every 500 Cycles Thereafter	05-21-22	311, 312
53-10-00-2108	Exterior Skin (Priority Area) General Visual Inspection	First 10,000 Cycles, then Every 1000 Cycles Thereafter	05-21-23	110, 121, 122, 131, 132, 141, 142, 143, 151, 152, 153, 161, 162, 163, 171, 172, 211, 212, 221, 222, 231, 232, 261, 262, 271, 272, 281, 282, 311, 312, 710
53-10-00-2109	Upper and Lower Windshield Corners (Priority Area) General Visual Inspection	First 10,000 Cycles, then Every 1000 Cycles Thereafter	05-21-23	231, 232
53-10-00-2110	Cabin Door and Fuselage Frame (Priority Area) General Visual Inspection (FL-954, FL-1010, FL-1031 and ON)	First 10,000 Cycles, then Every 1000 Cycles Thereafter	05-21-23	830
53-10-00-2111	Frame Web FS 179 Thru FS 271 (Priority Area) General Visual Inspection	Every 2500 Cycles Up To 10,000, then Every 1000 Cycles Thereafter	05-21-32	260, 270, 280
53-10-01-2100	Aft Fuselage Moisture Drainage System General Visual Inspection	Details 1, 3, 4	05-21-01	170



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TASK NUMBER	TASK TITLE	INTERVAL	CH SE SU	ZONE
55-10-01-2800	Horizontal Stabilizer (Borescope) Special Detailed Inspection	Detail 1	05-21-01	350
55-30-01-2100	Vertical Stabilizer General Visual Inspection	Details 1, 4	05-21-04	330
55-40-03-2200	Rudder and Trim Tab Drain Holes Detailed Inspection	Details 1, 3, 4	05-21-01	340, 360
56-00-00-2100	Windows (Cockpit Side) General Visual Inspection	Details 1, 2, 3, 4	05-21-01	240
56-00-00-2101	Windows (Cabin) General Visual Inspection	Details 1, 2, 3, 4	05-21-01	271, 272, 281, 282
56-00-00-2200	Crew Compartment/Cabin/Baggage Acrylic Window Attach Frames Detailed Inspection	Detail 3	05-21-03	271, 272, 281, 282, 821, 822
56-10-01-2100	Windshields General Visual Inspection	Details 1, 2, 3, 4	05-21-01	231, 232, 249, 251, 252
56-10-01-2200	Windshields Detailed Inspection	Detail 3	05-21-03	240
56-21-00-7200	Electronic Window Emergency Power Supply and Window Shade Functional Check	Every 12 Months	05-21-08	271, 272
57-00-00-2100	Wings General Visual Inspection	Detail 1	05-21-01	500, 600
57-00-00-2101	Electrical Wiring and Equipment (Wing) General Visual Inspection.	Detail 1	05-21-01	532, 632, 542, 642
57-00-00-2102	Static Ground Receptacles General Visual Inspection	Details 1, 3	05-21-01	300, 500, 600
57-00-00-2103	Wing Attach Fitting Drain Holes General Visual Inspection	Details 1, 2, 3, 4	05-21-01	511, 512, 611, 612
57-00-00-2106	Wing Forward (Main) Spar Lower Fittings General Visual Inspection	Every 60 Months	05-21-15	511, 512, 532, 541, 611, 612, 632, 641
57-00-00-2200	Main Lower Spar Cap Bumper Block Detailed Inspection (Extended Range and Heavy Weight Airplanes Only)	Details 2, 4	05-21-02	730, 740
57-00-00-2300	Wing Forward (Main) Spar Upper and Aft Spar Upper and Lower Wing Bolts Special Detailed Inspection	Every 60 Months	05-21-15	511, 512, 611, 612
57-00-00-2500	Wing Forward (Main) Spar Lower Shear Fitting Lugs Special Detailed Inspection	First 15,000 Hours, then Every 6000 Hours Thereafter	05-21-49	511, 512, 611, 613
57-00-00-2501	Wing Forward (Main) Spar upper Fitting and Aft Spar Upper and Lower Fitting Special Detailed Inspection	Every 60 Months	05-21-15	511, 512, 532, 541, 611, 612, 632, 641

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TASK NUMBER	TASK TITLE	INTERVAL	CH SE SU	ZONE
57-00-00-2800	Nacelle Splice Plates Special Detailed Inspection	First 6 Years, then Every 1 Year Thereafter	05-21-34	521, 522, 621, 622
57-00-00-6100	Wing Forward (Main) Spar Upper and Aft Spar Upper and Lower Wing Bolt Torque Check	First Scheduled Inspection after the Date on the Airplane's Standard Airworthiness Certificate, then at the First Scheduled Inspection after Wing Bolt Replacement	05-21-51	511, 512, 532, 541, 611, 612, 632, 641
57-00-00-6400	Wings Lubrication	Next Scheduled Inspection after Wing Installation, then Every 12 Months Thereafter	05-21-42	511, 512, 531, 532, 611, 612, 631, 632
57-10-01-2500	Wing Center Section Forward (Main) Spar Lower Cap Special Detailed Inspection	First 18,000 Hours, then Every 3000 Hours Thereafter	05-21-50	511, 512, 611, 612
57-10-01-2501	Wing Center Section Belly Skin Special Detailed Inspection	First 10,500 Hours, then Every 3000 Hours Thereafter	05-21-39	511, 512, 513, 611, 612, 613
57-10-01-2502	Wing Center Section Aft Spar Lower Cap Special Detailed Inspection	First 15,000 Hours, then Every 1500 Hours Thereafter	05-21-47	512, 513, 612, 613
57-10-01-2503	Wing Center Section Aft Spar Lower Fitting Special Detailed Inspection	First 15,000 hours, then Every 1500 Hours	05-21-47	512, 513, 612, 613
57-20-01-2100	Wing Outboard Panel Forward (Main) Spar Upper and Lower Caps General Visual Inspection	First 60 Months, then Every 12 Months	05-21-52	532, 542, 632, 642

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TASK NUMBER	TASK TITLE	INTERVAL	CH SE SU	ZONE
57-20-01-2500	Wing Outboard Panel Forward (Main) Spar Lower Cap Special Detailed Inspection	First 15,000 Hours, then Every 3000 Hours Thereafter	05-21-48	532, 542, 632, 642
57-20-01-2501	Wing Outboard Panel Aft Spar Lower Fitting Special Detailed Inspection	First 15,000 Hours, then Every 1500 Hours	05-21-47	532, 533, 632, 633
57-20-01-2502	Wing Outboard Panel Forward (Main) Spar Angle Special Detailed Inspection	First 18,000 Hours, then Every 3000 Hours Thereafter	05-21-50	532, 541, 632, 641
61-10-01-2100	Propeller General Visual Inspection	Details 1, 3	05-21-01	410, 420
61-10-01-2101	Primary Propeller Governor General Visual Inspection	Detail 2	05-21-02	410, 420
61-10-01-2102	Overspeed Governor General Visual Inspection	Detail 2	05-21-02	410, 420
61-10-01-2103	Propeller Synchrophaser General Visual Inspection	Detail 2	05-21-02	410, 420
61-10-01-2104	Beta Blocks General Visual Inspection	Details 1, 3	05-21-01	410, 420
61-10-01-2200	Propeller Detailed Inspection	Details 2, 4	05-21-02	410, 420
61-10-01-6400	Propeller Lubrication	Details 1, 2, 3, 4	05-21-01	410, 420
61-21-00-2100	Autofeather and Auto-Ignition Pressure Switches General Visual Inspection	Detail 2	05-21-02	410, 420
71-00-01-2100	Fireseals General Visual Inspection	Details 2, 4	05-21-02	410, 420
71-00-01-2101	Engine Mount Truss Assembly General Visual Inspection	Detail 2	05-21-02	410, 420
71-00-01-2200	Engine Periodic Inspections	Details 1, 2, 3, 4, First 100 Hours on a New or Overhauled Engine	05-21-28	410, 420
71-00-01-2201	Hot Section Detailed Inspection	Refer to P&W SB 13303	05-21-40	410, 420
71-00-01-2202	Engine Truss Bolt Torque Detailed Inspection	Detail 2	05-21-02	410, 420
71-10-00-2100	Cowling General Visual Inspection	Details 2, 4	05-21-02	410, 420
71-70-00-1600	Fuel Purge System Check Valve Cleaning	Details 2, 4	05-21-02	410, 420

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<b>TASK NUMBER</b>	<b>TASK TITLE</b>	<b>INTERVAL</b>	<b>CH SE SU</b>	<b>ZONE</b>
71-70-00-7200	Fuel Purge System Flow Divider/Purge Valve Functional Check	Details 2, 4	05-21-02	410, 420
71-70-01-1600	Fuel Purge Tank Cleaning	Details 2, 4	05-21-02	410, 420
71-70-03-1600	Fuel Purge System Air Filter Cleaning	Details 2, 4	05-21-02	410, 420
74-00-00-2100	Ignition Exciter General Visual Inspection	Detail 2	05-21-02	410, 420
76-00-00-2100	Control Cable Boots General Visual Inspection	Details 2, 4	05-21-02	410, 420
76-00-00-2101	Engine and Propeller Controls General Visual Inspection	Details 2, 4	05-21-02	410, 420
76-00-00-6400	Engine Controls Lubrication	Details 1, 2, 3, 4	05-21-01	410, 420
76-10-09-2100	Engine Control Levers Condition Control Catch Gate General Visual Inspection	Detail 3	05-21-03	243
76-10-09-2200	Engine Control Levers Detailed Inspection	Detail 3	05-21-03	243
76-10-15-7100	Ground Run Torque Operational Check	Detail 3	05-21-03	410, 420
76-10-19-2200	Engine Controls Power Lever Detent Pin Detailed Inspection	Every 1200 Hours	05-21-09	243
78-00-00-2100	Exhaust System General Visual Inspection	Details 2, 4	05-21-02	410, 420
79-00-00-2100	Oil Cooler General Visual inspection	Details 2, 4	05-21-02	410, 420
79-00-00-2101	Drain Plugs General Visual Inspection	Details 2, 4	05-21-02	410, 420
79-30-05-2200	Magnetic Chip Detector Detailed Inspection	Details 2, 4	05-21-02	410, 420



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**INSPECTION DETAIL 1**

**1. Description**

- A. Scheduled Inspection Program Detail 1 gives a list of Inspection Tasks to be completed at the first 200 hours or 48 months, whichever occurs first, then every 800 hours or 48 months thereafter.
- B. A brief inspection description and an inspection task number are given for each inspection. The airplane effectivity to which the inspection applies as well as the general location (Zone) where the inspection is to be done are also listed. The Inspection Task Number is linked to more detailed information in the manual about each inspection requirement.
- C. The following are provided for technician/inspector use during the inspection:
  - A table for each Inspection Task to give space for mechanic's and inspector's stamps or initials as well as any notes or remarks if needed.
  - A signature block at the end of the document to certify final completion of the Inspection Detail if required.
  - Figure 1, Airplane Information to record aircraft data such as flight hours, inspection dates and serial numbers if required.
- D. If it is necessary to replace/adjust a component or system during a task, complete any required return to service procedures for that system before the remaining steps of the task are completed.

**2. Pre-Inspection Checks**

- A. Complete the King Air Pre-Inspection Checks specified in Inspection Task 5-15-00-8400.

**3. Scheduled Inspection Program Detail 1 Inspections**

- A. Nose and Avionics Bay Inspection Tasks
  - (1) **Task 53-00-00-2100:** Radome General Visual Inspection

**Zone:** 110

Task Notes	Mech	Insp

- (2) **Task 37-10-01-1600:** Vacuum Regulator Valve Filter Cleaning

**Zone:** 121

Task Notes	Mech	Insp

- (3) **Task 53-00-00-2109:** Electrical Wiring and Equipment (Nose and Avionics Bay) General Visual Inspection

**Zone:** 110, 121, 220

Task Notes	Mech	Insp

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- (4) **Task 52-40-00-2105:** Doors, Fasteners and Seal (Nose and Avionics Bay) General Visual Inspection

**Zone:** 811, 812

Task Notes	Mech	Insp

- (5) **Task 21-51-01-2108:** Air Conditioning Condenser General Visual Inspection

**Zone:** 220

Task Notes	Mech	Insp

- (6) **Task 33-40-00-2102:** Landing and Taxi Lights General Visual Inspection

**Zone:** 710, 730, 740

Task Notes	Mech	Insp

B. Flight Compartment Inspection Tasks

- (1) **Task 56-10-01-2100:** Windshields General Visual Inspection

**Zone:** 231, 232, 249, 251, 252

Task Notes	Mech	Insp

- (2) **Task 56-00-00-2100:** Windows (Cockpit Side) General Visual Inspection

**Zone:** 240

Task Notes	Mech	Insp

- (3) **Task 25-10-00-2100:** Pilot and Copilot Seat Belt and Shoulder Harness General Visual Inspection

**Zone:** 261, 262

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Task Notes	Mech	Insp

- (4) **Task 52-40-00-2100:** Pilot's Compartment Access Doors General Visual Inspection  
**Zone:** 110, 121, 122, 131, 132, 211, 212, 221, 222, 231, 232

Task Notes	Mech	Insp

- (5) **Task 25-10-03-2100:** Upholstery Panels General Visual Inspection  
**Zone:** 241, 242, 243, 251, 252, 253, 249

Task Notes	Mech	Insp

- (6) **Task 22-30-00-2100:** Autothrottle Assembly General Visual Inspection  
**Zone:** 261, 262

Task Notes	Mech	Insp

- (7) **Task 22-30-00-7100:** Power Lever Control Movement Operational Check  
**Zone:** 261, 262

Task Notes	Mech	Insp

C. Cabin Section Inspection Tasks

- (1) **Task 56-00-00-2101:** Windows (Cabin) General Visual Inspection  
**Zone:** 271, 272, 281, 282

Task Notes	Mech	Insp

- (2) **Task 33-40-00-2100:** Lower Rotating Beacon Light General Visual Inspection  
**Zone:** 163



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Task Notes	Mech	Insp

- (3) **Task 33-50-00-2100:** Emergency Exit Lights General Visual Inspection  
**Zone:** 261, 262, 271, 272

Task Notes	Mech	Insp

- (4) **Task 21-30-03-1600:** Outflow Valve Control Line Draining (FL-1010, FL-1031 thru FL-1200, FL-1202 thru FL-1233; FM-66 thru FM-97)  
**Zone:** 281, 282

Task Notes	Mech	Insp

- (5) **Task 25-20-01-2100:** Passenger Seat Belts and Shoulder Harnesses General Visual Inspection  
**Zone:** 261, 262, 281, 282

Task Notes	Mech	Insp

- (6) **Task 21-51-01-1600:** Cabin Air Filter Cleaning (FL-954, FL-1010, FL-1031 and On)  
**Zone:** 200

Task Notes	Mech	Insp

- (7) **Task 38-30-01-2100:** Toilet General Visual Inspection  
**Zone:** 282

Task Notes	Mech	Insp

- (8) **Task 52-40-00-2101:** Cabin Access Doors General Visual Inspection  
**Zone:** 141, 142, 143, 151, 152, 153, 161, 162, 163, 171, 172, 261, 262, 271, 272, 281, 282

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Task Notes	Mech	Insp

(9) **Task 52-10-01-2100:** Cabin Entrance Door General Visual Inspection (FL-954, FL-1010, FL-1031 and On)

**Zone:** 830

Task Notes	Mech	Insp

(10) **Task 52-30-00-2100:** Cabin Cargo Door and Cabin Entrance Door General Visual Inspection (FM-66 and On)

**Zone:** 830

Task Notes	Mech	Insp

(11) **Task 22-10-07-2200:** Autopilot (Aileron) Servo and Cable Detailed Inspection

**Zone:** 710, 730, 740

Task Notes	Mech	Insp

(12) **Task 35-00-00-7201:** Oxygen System Manual Operation Functional Check

**Zone:** 282

Task Notes	Mech	Insp

D. Rear Fuselage and Empennage Inspection Tasks

(1) **Task 53-10-01-2100:** Aft Fuselage Moisture Drainage System General Visual Inspection

**Zone:** 170

Task Notes	Mech	Insp

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- (2) **Task 33-40-00-2101:** Navigation Light and Upper Beacon Light General Visual Inspection  
**Zone:** 350, 550, 650

Task Notes	Mech	Insp

- (3) **Task 55-40-03-2200:** Rudder and Trim Tab Drain Holes Detailed Inspection  
**Zone:** 340, 360

Task Notes	Mech	Insp

- (4) **Task 53-00-00-2114:** Rear Fuselage and Empennage General Visual Inspection  
**Zone:** 311, 312, 320, 330, 340, 350

Task Notes	Mech	Insp

- (5) **Task 21-30-00-2102:** Cabin Pressurization Overboard Dump System General Visual Inspection  
**Zone:** 311, 312

Task Notes	Mech	Insp

- (6) **Task 52-40-00-2102:** Rear Fuselage and Empennage Access Doors General Visual Inspection  
**Zone:** 311, 312, 320, 330, 340, 350

Task Notes	Mech	Insp

- (7) **Task 53-00-00-2112:** Electrical Wiring and Equipment (Rear Fuselage and Empennage)  
 General Visual Inspection  
**Zone:** 311, 312, 320, 330, 350

Task Notes	Mech	Insp

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- (8) **Task 53-00-00-2107:** Avionics and Autopilot Equipment and Racks (Rear Fuselage and Empennage) General Visual Inspection

**Zone:** 311, 312

Task Notes	Mech	Insp

- (9) **Task 55-30-01-2100:** Vertical Stabilizer General Visual Inspection

**Zone:** 330

Task Notes	Mech	Insp

- (10) **Task 55-10-01-2800:** Horizontal Stabilizer (Borescope) Special Detailed Inspection

**Zone:** 350

Task Notes	Mech	Insp

- (11) **Task 27-00-00-2103:** Flight Control Components, Cables, and Pulleys (Rear Fuselage and Empennage) General Visual Inspection

**Zone:** 311, 312, 320, 330, 340, 350

Task Notes	Mech	Insp

- (12) **Task 27-00-00-2105:** Control Cable Seals (Rear Fuselage and Empennage) General Visual Inspection

**Zone:** 311, 312

Task Notes	Mech	Insp

- (13) **Task 22-10-11-2200:** Autopilot (Rudder) Servo and Cable Detailed Inspection

**Zone:** 340

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Task Notes	Mech	Insp

(14) **Task 22-10-15-2200:** Autopilot (Elevator) Servo and Cable Detailed Inspection  
**Zone:** 351, 352

Task Notes	Mech	Insp

(15) **Task 22-10-19-2200:** Autopilot (Elevator Trim Tab) Servo and Cable Detailed Inspection  
**Zone:** 351, 352

Task Notes	Mech	Insp

(16) **Task 53-00-00-2108:** Plumbing (Rear Fuselage and Empennage) General Visual Inspection  
**Zone:** 311, 312, 320, 330, 350

Task Notes	Mech	Insp

(17) **Task 35-00-00-2100:** Oxygen Bottle Plumbing General Visual Inspection  
**Zone:** 282, 311, 312

Task Notes	Mech	Insp

E. Wing Inspection Tasks

(1) **Task 52-40-00-2103:** Wing Access Doors General Visual Inspection  
**Zone:** 500, 600

Task Notes	Mech	Insp

(2) **Task 28-20-00-2104:** Fuel Probes General Visual Inspection  
**Zone:** 513, 613

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Task Notes	Mech	Insp

- (3) **Task 57-00-00-2103:** Wing Attach Fitting Drain Holes General Visual Inspection  
**Zone:** 710, 730, 740

Task Notes	Mech	Insp

- (4) **Task 33-40-00-2103:** Lights (Wing) General Visual Inspection  
**Zone:** 550, 650

Task Notes	Mech	Insp

- (5) **Task 28-20-00-2103:** Fuel Tanks and Vents General Visual Inspection  
**Zone:** 500, 600

Task Notes	Mech	Insp

- (6) **Task 28-20-00-2102:** Nacelle Fuel Cell General Visual Inspection  
**Zone:** 521, 621

Task Notes	Mech	Insp

- (7) **Task 57-00-00-2102:** Static Ground Receptacles General Visual Inspection  
**Zone:** 300, 500, 600

Task Notes	Mech	Insp

- (8) **Task 28-20-00-2105:** Integral Fuel Tank General Visual Inspection  
**Zone:** 532, 542, 632, 642

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Task Notes	Mech	Insp

(9) **Task 30-10-01-7100:** Deicer Boots Operational Check  
**Zone:** 511, 521, 611, 621, 350

Task Notes	Mech	Insp

(10) **Task 57-00-00-2100:** Wings General Visual Inspection  
**Zone:** 500, 600

Task Notes	Mech	Insp

(11) **Task 27-00-00-2202:** Aileron (Left and Right) Detailed Inspection  
**Zone:** 543, 643

Task Notes	Mech	Insp

(12) **Task 27-00-00-2112:** Aileron, Outboard Flap and Inboard Flap General Visual Inspection  
**Zone:** 532, 542, 632, 642

Task Notes	Mech	Insp

(13) **Task 57-00-00-2101:** Electrical Wiring and Equipment (Wing) General Visual Inspection  
**Zone:** 532, 542, 632, 642

Task Notes	Mech	Insp

(14) **Task 27-00-00-2102:** Flight Control Components, Cables, and Pulleys (Wing) General Visual Inspection  
**Zone:** 532, 542, 632, 642

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Task Notes	Mech	Insp

(15) **Task** 27-00-00-2108: Flaps and Actuators General Visual Inspection  
**Zone:** 513, 532, 533, 613, 632, 633

Task Notes	Mech	Insp

(16) **Task** 27-00-00-2114: Flap Tracks General Visual Inspection  
**Zone:** 513, 533, 613, 633

Task Notes	Mech	Insp

(17) **Task** :27-50-11-7200 Flap: Safety Mechanism Functional Check  
**Zone:** 512, 532, 533, 613, 632, 633

Task Notes	Mech	Insp

(18) **Task** 28-20-00-2101: Leading Edge and Nacelle Fuel Plumbing General Visual Inspection  
**Zone:** 410, 420, 521, 621

Task Notes	Mech	Insp

(19) **Task** 52-40-00-2104: Hinged Access Doors Above Doors No. 532CB, 532HB, and 632CB, 632HB General Visual Inspection  
**Zone:** 532, 632

Task Notes	Mech	Insp

(20) **Task** 28-20-00-2100: Fuel Pumps General Visual Inspection  
**Zone:** 512, 612



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Task Notes	Mech	Insp

(21) **Task 26-20-05-2100:** Engine Fire Extinguisher General Visual Inspection  
**Zone:** 521, 522, 621, 622, 730, 740

Task Notes	Mech	Insp

(22) **Task 26-20-05-7200:** Fire Extinguisher Activation Functional Check  
**Zone:** 521, 522, 621, 622, 730, 740

Task Notes	Mech	Insp

(23) **Task 24-30-01-2100:** Battery General Visual Inspection  
**Zone:** 611

Task Notes	Mech	Insp

(24) **Task 28-20-00-2106:** Center Section General Visual Inspection  
**Zone:** 511, 512, 611, 612

Task Notes	Mech	Insp

(25) **Task 21-51-01-2102:** Refrigerant Lines and Pressure Switches (Wing) General Visual Inspection  
**Zone:** 611

Task Notes	Mech	Insp

(26) **Task 28-21-00-2200:** Extended Range Fuel Tank (Model 350ER/CER) Detailed Inspection  
**Zone:** 410, 420, 521, 621

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Task Notes	Mech	Insp

F. Landing Gear Area Inspection Tasks

- (1) **Task 32-20-03-2102:** Nose Wheel General Visual Inspection

**Zone:** 710

Task Notes	Mech	Insp

- (2) **Task 32-20-03-2201:** Nose Gear Tire Detailed Inspection

**Zone:** 710

Task Notes	Mech	Insp

- (3) **Task 32-20-11-2100:** Shimmy Damper General Visual Inspection

**Zone:** 710

Task Notes	Mech	Insp

- (4) **Task 32-20-09-2100:** Nose Gear Drag Brace General Visual Inspection

**Zone:** 710

Task Notes	Mech	Insp

- (5) **Task 32-20-03-2101:** Nose Gear Steering Stop General Visual Inspection

**Zone:** 710

Task Notes	Mech	Insp

- (6) **Task 32-20-03-2100:** Steering Linkage General Visual Inspection

**Zone:** 710

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Task Notes	Mech	Insp

(7) **Task 32-10-03-2100:** Main Wheels General Visual Inspection  
**Zone:** 730, 740

Task Notes	Mech	Insp

(8) **Task 32-40-01-2100:** Brakes General Visual Inspection  
**Zone:** 710, 730, 740

Task Notes	Mech	Insp

(9) **Task 32-43-00-2100:** Brake Deice System (If Installed) General Visual Inspection  
**Zone:** 710, 730, 740

Task Notes	Mech	Insp

(10) **Task 32-10-03-2200:** Main Gear Tire Detailed Inspection  
**Zone:** 730, 740

Task Notes	Mech	Insp

(11) **Task 32-10-03-2211:** Landing Gear Struts Detailed Inspection  
**Zone:** 710, 730, 740

Task Notes	Mech	Insp

(12) **Task 32-10-03-2101:** Electrical Wiring and Equipment (Main Landing Gear) General Visual Inspection  
**Zone:** 511, 512, 611, 612, 730, 740

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Task Notes	Mech	Insp

G. Engine and Cowling Area Inspection Tasks

- (1) **Task 30-60-01-2100:** Propeller Deicer Boots General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

- (2) **Task 61-10-01-2100:** Propeller General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

- (3) **Task 61-10-01-2104:** Beta Blocks General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

- (4) **Task 71-00-01-2200:** Engine Periodic Inspections

**Zone:** 410, 420

Task Notes	Mech	Insp

- (5) **Task :28-20-00-2200 :** Airframe Fuel Filters and Screens Detailed Inspection

**Zone:** 521, 621

Task Notes	Mech	Insp

H. Operational Inspection Tasks

- (1) **Task 30-20-01-7100:** Engine Induction System Operational Check

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**Zone:** 410, 420

Task Notes	Mech	Insp

(2) **Task 28-20-00-7100:** Fuel Tank Vents Operational Check

**Zone:** 512, 612

Task Notes	Mech	Insp

**4. Post-Inspection Tasks**

A. Complete the following Post-Inspection Tasks.

(1) **Task 25-60-01-7100:** Emergency Locator Transmitter (ARTEX C406-N) Operational Check

**Zone:** 311

Task Notes	Mech	Insp

(2) **Task 35-00-00-2101:** Oxygen System Pressure General Visual Inspection

**Zone:** 282

Task Notes	Mech	Insp

(3) **Task 25-60-09-2101:** Emergency and Survival Equipment (If Installed) General Visual Inspection

**Zone:** 261, 262, 271, 272, 282, 283

Task Notes	Mech	Insp

(4) **Task 27-00-00-6400:** Flight Controls (200 Hour) Lubrication

**Zone:** 330, 340, 350, 500, 600

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Task Notes	Mech	Insp

- (5) **Task 27-20-09-6400:** Rudder Control System (200 Hour) Lubrication  
**Zone:** 330, 340

Task Notes	Mech	Insp

- (6) **Task 32-10-03-6400:** Landing Gear (200 Hour) Lubrication  
**Zone:** 710, 720

Task Notes	Mech	Insp

- (7) **Task 52-10-01-6400:** Cabin Door Lubrication  
**Zone:** 830

Task Notes	Mech	Insp

- (8) **Task 52-30-00-6400:** Cargo Door Lubrication  
**Zone:** 830

Task Notes	Mech	Insp

- (9) **Task 61-10-01-6400:** Propeller Lubrication  
**Zone:** 410, 420

Task Notes	Mech	Insp

- (10) **Task 76-00-00-6400:** Engine Controls Lubrication  
**Zone:** 410, 420

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Task Notes	Mech	Insp

- B. If no other Inspection Details are to be completed at this time, complete the King Air Post-Inspection Checks specified in Inspection Task 5-15-00-8401.
- C. I certify that the Detail 1 Inspection was performed in accordance with the Super King Air Model B300/300C Fusion Inspection program and that the airplane is approved for return to service.

<b>DATE:</b>
<b>MECHANIC:</b>
<b>CREW CHIEF:</b>
<b>QUALITY CONTROL INSPECTOR:</b>

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<b>Owner:</b>		<b>Total Time :</b>	<b>Total Cycles :</b>
<b>W/O Number:</b>		<b>TSOH:</b>	<b>Cycles SOH :</b>
<b>Date In:</b>	<b>Date Out:</b>	<b>TSHSI:</b>	<b>Cycles SHSI :</b>
<b>Serial No:</b>	<b>Reg. No :</b>	<b>R Eng. Gas Gen. S/N:</b>	
<b>Last Inspection:</b>	<b>Phase:</b>	<b>R Eng. Power Module S/N:</b>	
<b>Last Inspection Date:</b>		<b>Total Time :</b>	<b>Total Cycles :</b>
<b>Last Inspection Hours:</b>		<b>TSOH :</b>	<b>Cycles SOH :</b>
<b>Hourmeter:</b>	<b>Total Time :</b>	<b>T SHSI :</b>	<b>Cycles SHSI :</b>
<b>Total Cycles:</b>		<b>L Prop S/N :</b>	
<b>Researched By :</b>		<b>L Prop Total Time:</b>	<b>TSOH :</b>
<b>Inspection Being Conducted Detail:</b>		<b>R Prop S/N :</b>	
<b>L Eng. Gas Gen. S/N:</b>		<b>R Prop Total Time :</b>	<b>TSOH :</b>
<b>L Eng. Power Module S/N:</b>			

Airplane Information  
 Figure 1 (Sheet 1)





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**INSPECTION DETAIL 2**

**1. Description**

- A. Scheduled Inspection Program Detail 2 gives a list of Inspection Tasks to be completed at the first 400 hours or 48 months, whichever occurs first, then every 800 hours or 48 months thereafter.
- B. A brief inspection description and an inspection task number are given for each inspection. The airplane effectivity to which the inspection applies as well as the general location (Zone) where the inspection is to be done are also listed. The Inspection Task Number is linked to more detailed information in the manual about each inspection requirement.
- C. The following are provided for technician/inspector use during the inspection:
  - A table for each Inspection Task to give space for mechanic's and inspector's stamps or initials as well as any notes or remarks if needed.
  - A signature block at the end of the document to certify final completion of the Inspection Detail if required.
  - Figure 1, Airplane Information to record aircraft data such as flight hours, inspection dates and serial numbers if required.
- D. If it is necessary to replace/adjust a component or system during a task, complete any required return to service procedures for that system before the remaining steps of the task are completed.

**2. Pre-Inspection Checks**

- A. Complete the King Air Pre-Inspection Checks specified in Inspection Task 5-15-00-8400.

**3. Scheduled Inspection Program Detail 2 Inspections**

- A. Nose and Avionics Bay Inspection Tasks
  - (1) **Task 21-51-01-2109:** Condenser Blower General Visual Inspection  
**Zone:** 121, 122

Task Notes	Mech	Insp

- (2) **Task 53-00-00-2101:** Avionics Compartment, Equipment and Racks (Nose and Avionics Bay) General Visual Inspection  
**Zone:** 120

Task Notes	Mech	Insp

- B. Flight Compartment Inspection Tasks
  - (1) **Task 56-00-00-2100:** Windows (Cockpit Side) General Visual Inspection  
**Zone:** 240

Task Notes	Mech	Insp

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- (2) **Task 56-10-01-2100:** Windshields General Visual Inspection  
**Zone:** 240

Task Notes	Mech	Insp

- (3) **Task 52-40-00-2100:** Pilot's Compartment Access Doors General Visual Inspection  
**Zone:** 110, 121, 122, 131, 132, 211, 212, 221, 222, 231, 232

Task Notes	Mech	Insp

- (4) **Task 22-30-00-2100:** Auto throttle Assembly General Visual Inspection (FL-1300, FL-1307 and After; FM-110 and After)  
**Zone:** 261, 262

Task Notes	Mech	Insp

- (5) **Task 22-30-00-7100:** Power Control Lever Movement Operational Check (FL-1300, FL-1307 and After; FM-110 and After)  
**Zone:** 261, 262

Task Notes	Mech	Insp

C. Cabin Section Inspection Tasks

- (1) **Task 56-00-00-2101:** Windows (Cabin) General Visual Inspection  
**Zone:** 271, 272, 281, 282

Task Notes	Mech	Insp

- (2) **Task 33-40-00-2100:** Lower Rotating Beacon Light General Visual Inspection  
**Zone:** 163, 350

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Task Notes	Mech	Insp

- (3) **Task** 33-50-00-2100: Emergency Exit Lights General Visual Inspection  
**Zone:** 261, 262

Task Notes	Mech	Insp

- (4) **Task** : 21-30-03-1600 Outflow Valve Control Line Draining (FL-1010, FL-1031 thru FL-1200, FL-1202 thru FL-1233; FM-66 thru FM-97)  
**Zone:** 280

Task Notes	Mech	Insp

- (5) **Task** 52-40-00-2101: Cabin Access Doors General Visual Inspection  
**Zone:** 141, 142, 143, 151, 152, 153, 161, 162, 163, 171, 172, 261, 262, 271, 272, 281, 282

Task Notes	Mech	Insp

D. Rear Fuselage and Empennage Inspection Tasks

- (1) **Task** 52-40-00-2102: Rear Fuselage and Empennage Access Doors General Visual Inspection  
**Zone:** 311, 312, 320, 330, 340, 350

Task Notes	Mech	Insp

E. Wing Section Inspection Tasks

- (1) **Task** 52-40-00-2103: Wing Access Doors General Visual Inspection  
**Zone:** 500, 600

Task Notes	Mech	Insp

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- (2) **Task 28-20-00-2104:** Fuel Probes General Visual Inspection  
**Zone:** 521, 621

Task Notes	Mech	Insp

- (3) **Task 57-00-00-2103:** Wing Attach Fitting Drain Holes General Visual Inspection  
**Zone:** 511, 512, 611, 612

Task Notes	Mech	Insp

- (4) **Task 33-40-00-2103:** Lights (Wing) General Visual Inspection  
**Zone:** 330, 340, 550, 650

Task Notes	Mech	Insp

- (5) **Task 28-20-00-2103:** Fuel Tanks and Vents General Visual Inspection  
**Zone:** 511, 512, 611, 612

Task Notes	Mech	Insp

- (6) **Task 28-20-00-2105:** Integral Fuel Tank General Visual Inspection  
**Zone:** 532, 542, 632, 642

Task Notes	Mech	Insp

- (7) **Task 28-20-00-2100:** Fuel Pumps General Visual Inspection  
**Zone:** 512, 612

Task Notes	Mech	Insp

- (8) **Task 24-30-01-2100:** Battery General Visual Inspection

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**Zone:** 611

Task Notes	Mech	Insp

(9) **Task 28-21-00-2200:** Extended Range Fuel Tank (Model 350ER/CER) Detailed Inspection

**Zone:** 410, 420, 521, 621

Task Notes	Mech	Insp

F. Landing Gear Area Inspection Tasks

(1) **Task 32-20-03-2102:** Nose Wheel General Visual Inspection

**Zone:** 121, 122, 710

Task Notes	Mech	Insp

(2) **Task 32-20-03-2201:** Nose Gear Tire Detailed Inspection

**Zone:** 710

Task Notes	Mech	Insp

(3) **Task 32-20-11-2100:** Shimmy Damper General Visual Inspection

**Zone:** 710

Task Notes	Mech	Insp

(4) **Task 32-20-09-2100:** Nose Gear Drag Brace General Visual Inspection

**Zone:** 710

Task Notes	Mech	Insp

(5) **Task 32-20-03-2101:** Nose Gear Steering Stop General Visual Inspection

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**Zone:** 710

Task Notes	Mech	Insp

(6) **Task 32-30-11-2100:** Nose Landing Gear Actuator General Visual Inspection

**Zone:** 710

Task Notes	Mech	Insp

(7) **Task 32-10-03-2100:** Main Wheels General Visual Inspection

**Zone:** 730, 740

Task Notes	Mech	Insp

(8) **Task 32-40-01-2100:** Brakes General Visual Inspection

**Zone:** 710, 730, 740

Task Notes	Mech	Insp

(9) **Task 32-43-00-2100:** Brake Deice System (If Installed) General Visual Inspection

**Zone:** 710, 730, 740

Task Notes	Mech	Insp

(10) **Task 32-10-03-2200:** Main Gear Tire Detailed Inspection

**Zone:** 730, 740

Task Notes	Mech	Insp

(11) **Task 32-10-03-2211:** Landing Gear Struts Detailed Inspection

**Zone:** 710, 730, 740

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Task Notes	Mech	Insp

(12) **Task 32-10-03-2101:** Electrical Wiring and Equipment (Main Landing Gear) General Visual Inspection

**Zone:** 730, 740

Task Notes	Mech	Insp

(13) **Task 32-30-05-2100:** Main Landing Gear Actuator General Visual Inspection

**Zone:** 730, 740

Task Notes	Mech	Insp

(14) **Task 57-00-00-2200:** Main Lower Spar Cap Bumper Block Detailed Inspection (Extended Range and Heavy Weight Airplanes Only)

**Zone:** 730, 740

Task Notes	Mech	Insp

G. Engine and Cowling Area

(1) **Task 30-60-01-2100:** Propeller Deicer Boots General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(2) **Task 61-10-01-2200:** Propeller Detailed Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp



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(3) **Task 71-00-01-2200:** Engine Periodic Inspections

**Zone:** 410, 420

Task Notes	Mech	Insp

(4) **Task 28-20-00-2200:** Airframe Fuel Filters and Screens Detailed Inspection

**Zone:** 521, 621

Task Notes	Mech	Insp

(5) **Task 79-00-00-2101:** Drain Plugs General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(6) **Task 71-10-00-2100:** Cowling General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(7) **Task 79-00-00-2100:** Oil Cooler General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(8) **Task 71-00-01-2100:** Fireseals General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(9) **Task 78-00-00-2100:** Exhaust System General Visual Inspection

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**Zone:** 410, 420

Task Notes	Mech	Insp

(10) **Task** 76-00-00-2101: Engine and Propeller Controls General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(11) **Task** 76-00-00-2100: Control Cable Boots General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(12) **Task** 24-30-03-2100: Starter-Generator Brushes General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(13) **Task** 79-30-05-2200: Magnetic Chip Detector Detailed Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(14) **Task** 21-51-01-2107: Air Conditioning Compressor General Visual Inspection

**Zone:** 220

Task Notes	Mech	Insp

(15) **Task** 21-51-01-2103: Refrigerant Lines and Service Valve (Engine and Cowling) General Visual Inspection

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**Zone:** 120

Task Notes	Mech	Insp

(16) **Task** 71-00-01-2101: Engine Mount Truss Assembly General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(17) **Task** 71-00-01-2202: Engine Truss Bolt Torque Detailed Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(18) **Task** 30-20-01-2200: Induction System Detailed Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(19) **Task** 26-10-00-2100: Fire Detection System General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(20) **Task** 26-10-00-7200: Fire Detection System Functional Check

**Zone:** 410, 420

Task Notes	Mech	Insp

(21) **Task** 61-10-01-2103: Propeller Synchrophaser General Visual Inspection

**Zone:** 410, 420

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Task Notes	Mech	Insp

(22) **Task** 61-21-00-2100: Autofeather and Auto-Ignition Pressure Switches General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(23) **Task** 61-10-01-2101: Primary Propeller Governor General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(24) **Task** 61-10-01-2102: Overspeed Governor General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(25) **Task** 27-21-01-2100: Rudder Boost Transducer General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(26) **Task** 74-00-00-2100: Ignition Exciter General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(27) **Task** 71-70-01-1600: Fuel Purge Tank Cleaning

**Zone:** 410, 420

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Task Notes	Mech	Insp

(28) **Task 71-70-03-1600:** Fuel Purge System Air Filter Cleaning  
**Zone:** 410, 420

Task Notes	Mech	Insp

(29) **Task 71-70-00-1600:** Fuel Purge System Check Valve Cleaning  
**Zone:** 410, 420

Task Notes	Mech	Insp

(30) **Task 71-70-00-7200:** Fuel Purge System Flow Divider/Purge Valve Functional Check  
**Zone:** 410, 420

Task Notes	Mech	Insp

(31) **Task 21-10-05-2100:** Environmental Bleed Air Flow Control Valve General Visual Inspection  
**Zone:** 410, 420

Task Notes	Mech	Insp

H. Operational Inspection Tasks

(1) **Task 30-20-01-7100:** Engine Induction System Operational Check  
**Zone:** 240, 410, 420

Task Notes	Mech	Insp

(2) **Task 28-20-00-7100:** Fuel Tank Vents Operational Check  
**Zone:** 512, 612

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Task Notes	Mech	Insp

- (3) **Task 23-00-00-7100:** Communications System Operational Check  
**Zone:** 231, 232

Task Notes	Mech	Insp

**4. Post-Inspection Tasks**

A. Complete the following Post-Inspection Tasks.

- (1) **Task 25-60-01-7100:** Emergency Locator Transmitter (ARTEX C406-N) Operational Check  
**Zone:** 311

Task Notes	Mech	Insp

- (2) **Task 35-00-00-2101:** Oxygen System Pressure General Visual Inspection  
**Zone:** 282

Task Notes	Mech	Insp

- (3) **Task 25-60-09-2101:** Emergency and Survival Equipment (If Installed) General Visual Inspection  
**Zone:** 261, 262, 271, 272, 282, 283

Task Notes	Mech	Insp

- (4) **Task 21-51-01-6400:** Compressor Quill Shaft Lubrication  
**Zone:** 410, 420

Task Notes	Mech	Insp

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- (5) **Task 27-00-00-6400:** Flight Controls (200 Hour) Lubrication  
**Zone:** 330, 340, 350, 500, 600

Task Notes	Mech	Insp

- (6) **Task 27-00-00-6401:** Aileron Bellcranks (400 Hour) Lubrication  
**Zone:** 542, 642

Task Notes	Mech	Insp

- (7) **Task 27-10-15-6400:** Aileron Trim Tab Actuator Lubrication  
**Zone:** 542, 642

Task Notes	Mech	Insp

- (8) **Task 27-20-09-6400:** Rudder Control System (200 Hour) Lubrication  
**Zone:** 330, 340

Task Notes	Mech	Insp

- (9) **Task 27-20-09-6401:** Rudder Control System (400 Hour) Lubrication  
**Zone:** 330, 340

Task Notes	Mech	Insp

- (10) **Task 27-20-11-6400:** Rudder Trim Tab Actuator Lubrication  
**Zone:** 331

Task Notes	Mech	Insp

- (11) **Task 27-30-07-6400:** Elevator Trim Tab Actuator Lubrication

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**Zone: 351**

Task Notes	Mech	Insp

(12) **Task 32-10-03-6400:** Landing Gear (200 Hour) Lubrication

**Zone: 710, 730, 740**

Task Notes	Mech	Insp

(13) **Task 32-10-03-6401:** Main Landing Gear Door Linkage Lubrication

**Zone: 730, 740, 800**

Task Notes	Mech	Insp

(14) **Task 52-10-01-6400:** Cabin Door Lubrication

**Zone: 830**

Task Notes	Mech	Insp

(15) **Task 52-30-00-6400:** Cargo Door Lubrication

**Zone: 830**

Task Notes	Mech	Insp

(16) **Task 61-10-01-6400:** Propeller Lubrication

**Zone: 410, 420**

Task Notes	Mech	Insp

(17) **Task 76-00-00-6400:** Engine Controls Lubrication

**Zone: 410, 420**



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Task Notes	Mech	Insp

- B. If no other Inspection Details are to be completed at this time, complete the King Air Post-Inspection Checks specified in Inspection Task 5-15-00-8401.
- C. I certify that the Detail 2 Inspection was performed in accordance with the Super King Air Model B300/300C Fusion Inspection program and that the airplane is approved for return to service.

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E75147

<b>Owner:</b>		<b>Total Time :</b>	<b>Total Cycles :</b>
<b>W/O Number:</b>		<b>TSOH:</b>	<b>Cycles SOH :</b>
<b>Date In:</b>	<b>Date Out:</b>	<b>TSHSI:</b>	<b>Cycles SHSI :</b>
<b>Serial No:</b>	<b>Reg. No :</b>	<b>R Eng. Gas Gen. S/N:</b>	
<b>Last Inspection:</b>	<b>Phase:</b>	<b>R Eng. Power Module S/N:</b>	
<b>Last Inspection Date:</b>		<b>Total Time :</b>	<b>Total Cycles :</b>
<b>Last Inspection Hours:</b>		<b>TSOH :</b>	<b>Cycles SOH :</b>
<b>Hourmeter:</b>	<b>Total Time :</b>	<b>T SHSI :</b>	<b>Cycles SHSI :</b>
<b>Total Cycles:</b>		<b>L Prop S/N :</b>	
<b>Researched By :</b>		<b>L Prop Total Time:</b>	<b>TSOH :</b>
<b>Inspection Being Conducted Detail:</b>		<b>R Prop S/N :</b>	
<b>L Eng. Gas Gen. S/N:</b>		<b>R Prop Total Time :</b>	<b>TSOH :</b>
<b>L Eng. Power Module S/N:</b>			

Airplane Information  
 Figure 1 (Sheet 1)

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<b>DATE:</b>
<b>MECHANIC:</b>
<b>CREW CHIEF:</b>
<b>QUALITY CONTROL INSPECTOR:</b>



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**INSPECTION DETAIL 3**

**1. Description**

- A. Scheduled Inspection Program Detail 3 gives a list of Inspection Tasks to be completed at the first 600 hours or 48 months, whichever occurs first, then every 800 hours or 48 months thereafter.
- B. A brief inspection description and an inspection task number are given for each inspection. The airplane effectivity to which the inspection applies as well as the general location (Zone) where the inspection is to be done are also listed. The Inspection Task Number is linked to more detailed information in the manual about each inspection requirement.
- C. The following are provided for technician/inspector use during the inspection:
  - A table for each Inspection Task to give space for mechanic's and inspector's stamps or initials as well as any notes or remarks if needed.
  - A signature block at the end of the document to certify final completion of the Inspection Detail if required.
  - Figure 1, Airplane Information to record aircraft data such as flight hours, inspection dates and serial numbers if required.
- D. If it is necessary to replace/adjust a component or system during a task, complete any required return to service procedures for that system before the remaining steps of the task are completed.

**2. Pre-Inspection Checks**

- A. Complete the King Air Pre-Inspection Checks specified in Inspection Task 5-15-00-8400.

**3. Scheduled Inspection Program Detail 3 Inspection Tasks**

- A. Nose and Avionics Bay Inspection Tasks
  - (1) **Task 33-40-00-2102:** Landing and Taxi Lights General Visual Inspection  
**Zone:** 710, 730, 740

Task Notes	Mech	Insp

- (2) **Task 53-00-00-2109:** Electrical Wiring and Equipment (Nose and Avionics Bay) General Visual Inspection  
**Zone:** 120

Task Notes	Mech	Insp

- B. Flight Compartment Inspection Tasks
  - (1) **Task 56-10-01-2100:** Windshields General Visual Inspection  
**Zone:** 240

Task Notes	Mech	Insp

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- (2) **Task 56-10-01-2200:** Windshields Detailed Inspection  
**Zone:** 240

Task Notes	Mech	Insp

- (3) **Task 56-00-00-2100:** Windows (Cockpit Side) General Visual Inspection  
**Zone:** 240

Task Notes	Mech	Insp

- (4) **Task 52-40-00-2100:** Pilot's Compartment Access Doors General Visual Inspection  
**Zone:** 110, 121, 122, 131, 132, 211, 212, 221, 222, 231, 232

Task Notes	Mech	Insp

- (5) **Task 25-10-00-2100:** Pilot and Copilot Seat Belt and Shoulder Harness General Visual Inspection  
**Zone:** 261, 262

Task Notes	Mech	Insp

- (6) **Task 26-21-00-2100:** Portable Fire Extinguisher (Flight Compartment) General Visual Inspection  
**Zone:** 281

Task Notes	Mech	Insp

- (7) **Task 21-51-01-2101:** Refrigerant Lines and Service Valves (Flight Compartment) General Visual Inspection  
**Zone:** 131, 132, 231, 232

Task Notes	Mech	Insp

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(8) **Task 27-20-09-2200:** Rudder Pedal Arm Detailed Inspection

**Zone:** 131, 132, 231, 232

Task Notes	Mech	Insp

(9) **Task 27-20-09-2100:** Rudder Pedals General Visual Inspection

**Zone:** 131, 132, 231, 232

Task Notes	Mech	Insp

(10) **Task 32-40-01-1600:** Brake Fluid Reservoir Pressure Equalization Line and Orifice Cleaning

**Zone:** 221, 222

Task Notes	Mech	Insp

(11) **Task 27-00-00-2100:** Flight Compartment Flight Control Components, Cables, and Pulleys General Visual Inspection

**Zone:** 131, 132, 231, 232

Task Notes	Mech	Insp

(12) **Task 32-40-01-2101:** Brake System General Visual Inspection

**Zone:** 131, 132, 221, 222, 231, 232

Task Notes	Mech	Insp

(13) **Task 31-10-00-2101:** Instrument Panel, Plumbing and Wiring General Visual Inspection

**Zone:** 221, 222, 242, 244, 245, 246, 247, 248, 249, 253

Task Notes	Mech	Insp

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(14) **Task 27-00-00-2106:** Control Column General Visual Inspection

**Zone:** 254, 255

Task Notes	Mech	Insp

(15) **Task 27-00-00-7100:** Control Column Operational Check

**Zone:** 254, 255

Task Notes	Mech	Insp

(16) **Task 27-10-05-2200:** Control Column Bearing Support Detailed Inspection

**Zone:** 143

Task Notes	Mech	Insp

(17) **Task 31-10-00-2100:** Pedestal General Visual Inspection

**Zone:** 243

Task Notes	Mech	Insp

(18) **Task 76-10-09-2200:** Engine Control Levers Detailed Inspection

**Zone:** 243

Task Notes	Mech	Insp

(19) **Task 76-10-09-2100:** Engine Control Levers Condition Control Catch Gate General Visual Inspection

**Zone:** 243

Task Notes	Mech	Insp



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- (20) **Task 21-30-00-2101:** Pressurization Controller General Visual Inspection (FL-1010, FL-1031 thru FL-1200, FL-1202 thru FL-1233; FM-66 thru FM-97)

**Zone:** 243

Task Notes	Mech	Insp

- (21) **Task 21-30-01-1600:** Pressurization Controller Filter Cleaning (FL-1010, FL-1031 thru FL-1200, FL-1202 thru FL-1233; FM-66 thru FM-97)

**Zone:** 243

Task Notes	Mech	Insp

- (22) **Task 25-10-00-2101:** Pilot and Copilot Seat Tracks General Visual Inspection

**Zone:** 241, 242

Task Notes	Mech	Insp

- (23) **Task 38-30-00-2100:** Relief Tube (If Installed - Flight Compartment) General Visual Inspection

**Zone:** 221, 222

Task Notes	Mech	Insp

- (24) **Task 24-60-00-7200:** Bus Conformity Functional Check

**Zone:** 244, 245, 248

Task Notes	Mech	Insp

- (25) **Task 21-51-01-2104:** Environmental System (Flight Compartment) General Visual Inspection

**Zone:** 131, 132, 231, 232

Task Notes	Mech	Insp

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(26) **Task 32-30-00-2100:** Manual Landing Gear Handle General Visual Inspection

**Zone:** 241, 243

Task Notes	Mech	Insp

(27) **Task 27-30-21-2200:** Elevator Bob-Weight and Stop Detailed Inspection

**Zone:** 131, 143

Task Notes	Mech	Insp

(28) **Task 22-30-00-2100:** Auto throttle Assembly General Visual Inspection (FL-1300, FL-1307 and After; FM-110 and After)

**Zone:** 1261, 262

Task Notes	Mech	Insp

(29) **Task 22-30-00-7100:** Power Control Lever Movement Operational Check (FL-1300, FL-1307 and After; FM-110 and After)

**Zone:** 261, 262

Task Notes	Mech	Insp

C. Cabin Section Inspection Tasks

(1) **Task 56-00-00-2101:** Windows (Cabin) General Visual Inspection

**Zone:** 271, 272, 281, 282

Task Notes	Mech	Insp

(2) **Task 52-40-00-2101:** Cabin Access Doors General Visual Inspection

**Zone:** 141, 142, 143, 151, 152, 153, 161, 162, 163, 171, 172, 261, 262, 271, 272, 281, 282

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Task Notes	Mech	Insp

- (3) **Task 21-51-01-1600:** Cabin Air Filter Cleaning (FL-954, FL-1010, FL-1031 and On)  
**Zone:** 200

Task Notes	Mech	Insp

- (4) **Task 33-40-00-2100:** Lower Rotating Beacon Light General Visual Inspection  
**Zone:** 163, 350

Task Notes	Mech	Insp

- (5) **Task 33-50-00-2101:** Emergency Exit Lights (Detail 3) General Visual Inspection  
**Zone:** 261, 262

Task Notes	Mech	Insp

- (6) **Task 21-30-03-1600:** Outflow Valve Control Line Draining (FL-1010, FL-1031 thru FL-1200, FL-1202 thru FL-1233; FM-66 thru FM-97)  
**Zone:** 280

Task Notes	Mech	Insp

- (7) **Task 21-30-03-1601:** Outflow and Safety Valves Servicing (FL-1010, FL-1031 thru FL-1200, FL-1202 thru FL-1233; FM-66 thru FM-97)  
**Zone:** 281, 282

Task Notes	Mech	Insp

- (8) **Task 21-30-03-2100:** Outflow and Safety Valves General Visual Inspection (FL-1010, FL-1031 thru FL-1200, FL-1202 thru FL-1233; FM-66 thru FM-97)

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**Zone: 280**

Task Notes	Mech	Insp

- (9) **Task 21-30-03-7200:** Outflow and Safety Valves Functional Check (FL-1010, FL-1031 thru FL-1200, FL-1202 thru FL-1233; FM-66 thru FM-97)

**Zone: 280**

Task Notes	Mech	Insp

- (10) **Task 21-30-00-7200:** Cabin Altitude Limit Controllers Functional Check (FL-1010, FL-1031 thru FL-1200, FL-1202 thru FL-1233; FM-66 thru FM-97)

**Zone: 280**

Task Notes	Mech	Insp

- (11) **Task 21-31-00-7202:** Pressurization CAS Messages Functional Check (FL-1201, FL-1234 and After; FM-98 and After with 7.0 PSI Pressurization System)

**Zone: 280**

Task Notes	Mech	Insp

- (12) **Task 21-31-01-7202:** Pressurization CAS Messages Functional Test (FL-1201, FL-1234 and After; FM-98 and After with 6.5 PSI Pressurization System)

**Zone: 280**

Task Notes	Mech	Insp

- (13) **Task 25-20-01-2100:** Passenger Seat Belt and Shoulder Harness General Visual Inspection

**Zone: 261, 262**

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Task Notes	Mech	Insp

(14) **Task 25-20-01-2101:** Passenger Seat Tracks General Visual Inspection  
**Zone:** 261, 262, 281, 282

Task Notes	Mech	Insp

(15) **Task 25-20-01-7100:** Passenger Seats Operational Check  
**Zone:** 261, 262, 281, 282

Task Notes	Mech	Insp

(16) **Task 25-20-01-7101:** Passenger Seat Belt and Shoulder Harness Operational Check  
**Zone:** 261, 262, 281, 282

Task Notes	Mech	Insp

(17) **Task 35-20-05-7100:** Oxygen System Masks Operational Check  
**Zone:** 261, 262, 281, 282

Task Notes	Mech	Insp

(18) **Task 35-00-00-7201:** Oxygen System Manual Operation Functional Check  
**Zone:** 282

Task Notes	Mech	Insp

(19) **Task 38-30-01-2100:** Toilet General Visual Inspection  
**Zone:** 282

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Task Notes	Mech	Insp

(20) **Task 52-10-01-2200:** Cabin Entrance Door Detailed Inspection (FL-954, FL-1010, FL-1031 and On)

**Zone:** 830

Task Notes	Mech	Insp

(21) **Task 52-30-00-2200:** Cabin Cargo Door and Cabin Entrance Door Detailed Inspection (FM-66 and On)

**Zone:** 830

Task Notes	Mech	Insp

(22) **Task 52-10-01-7100:** Cabin Entrance Door Operational Check

**Zone:** 830

Task Notes	Mech	Insp

(23) **Task 53-00-00-2105:** Bulkheads General Visual Inspection

**Zone:** 280

Task Notes	Mech	Insp

(24) **Task 32-30-01-2101:** Landing Gear Hydraulic Lines General Visual Inspection

**Zone:** 151, 152, 153, 161, 162, 163, 171, 172, 261, 262, 281, 282

Task Notes	Mech	Insp

(25) **Task 27-00-00-2109:** Flap Motor and Drives General Visual Inspection

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**Zone:** 163

Task Notes	Mech	Insp

(26) **Task** 27-00-00-2107: Aileron Quadrant Regulator General Visual Inspection

**Zone:** 161

Task Notes	Mech	Insp

(27) **Task** 53-00-00-2106: Belly Drain Valves General Visual Inspection

**Zone:** 151, 152, 153, 161, 162, 163, 171, 172

Task Notes	Mech	Insp

(28) **Task** 56-00-00-2200: Crew Compartment/Cabin/Baggage Acrylic Window Attach Frames Detailed Inspection

**Zone:** 271, 272, 281, 282, 821, 822

Task Notes	Mech	Insp

(29) **Task** 30-10-00-2100: Pneumatic Pressure Regulator, Vacuum Ejector and Deicer General Visual Inspection

**Zone:** 141, 142, 151, 161, 162, 163

Task Notes	Mech	Insp

(30) **Task** 30-40-13-2100: Window Defog System General Visual Inspection

**Zone:** 163

Task Notes	Mech	Insp

(31) **Task** 27-00-00-2104: Control Cable Seals (Cabin) General Visual Inspection

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**Zone:** 161, 162

Task Notes	Mech	Insp

(32) **Task 22-10-00-2100:** Autopilot Components General Visual Inspection

**Zone:** 151, 152, 153, 161, 162, 163, 171, 172

Task Notes	Mech	Insp

(33) **Task 38-30-00-2101:** Relief Tube (If Installed- Cabin) General Visual Inspection

**Zone:** 151, 152, 153, 161, 162, 163, 171, 172

Task Notes	Mech	Insp

(34) **Task 23-00-00-2100:** Antennas General Visual Inspection

**Zone:** 131, 132, 141, 142, 143, 151, 152, 153, 161, 162, 163, 171, 172, 271, 272

Task Notes	Mech	Insp

(35) **Task 26-21-00-2101:** Portable Fire Extinguisher (Cabin) General Visual Inspection

**Zone:** 281

Task Notes	Mech	Insp

(36) **Task 52-20-01-2200:** Cabin Door and Emergency Exits Detailed Inspection

**Zone:** 821, 822, 830

Task Notes	Mech	Insp

(37) **Task 52-20-01-2201:** Emergency Exits Detailed Inspection

**Zone:** 821, 822



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Task Notes	Mech	Insp

(38) **Task 22-10-07-2200:** Autopilot (Aileron) Servo and Cable Detailed Inspection  
**Zone:** 163

Task Notes	Mech	Insp

D. Rear Fuselage and Empennage Inspection Tasks

(1) **Task 52-40-00-2102:** Rear Fuselage and Empennage Access Doors General Visual Inspection  
**Zone:** 311, 312, 320, 330, 340, 350

Task Notes	Mech	Insp

(2) **Task 53-10-01-2100:** Aft Fuselage Moisture Drainage System General Visual Inspection  
**Zone:** 170

Task Notes	Mech	Insp

(3) **Task 33-40-00-2101:** Navigation Light and Upper Beacon Light General Visual Inspection  
**Zone:** 300, 550, 650

Task Notes	Mech	Insp

(4) **Task 53-00-00-2107:** Avionics and Autopilot Equipment and Racks (Rear Fuselage and Empennage) General Visual Inspection  
**Zone:** 311, 312

Task Notes	Mech	Insp

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- (5) **Task 53-00-00-2112:** Electrical Wiring and Equipment (Rear Fuselage and Empennage) General Visual Inspection

**Zone:** 311, 312, 320, 330, 350

Task Notes	Mech	Insp

- (6) **Task 55-40-03-2200:** Rudder and Trim Tab Drain Holes Detailed Inspection

**Zone:** 340, 360

Task Notes	Mech	Insp

- (7) **Task 27-00-00-2103:** Flight Control Components, Cables, and Pulleys (Rear Fuselage and Empennage) General Visual Inspection

**Zone:** 100, 300

Task Notes	Mech	Insp

- (8) **Task 27-00-00-2105:** Control Cable Seals (Rear Fuselage and Empennage) General Visual Inspection

**Zone:** 310, 311, 312

Task Notes	Mech	Insp

- (9) **Task 22-10-11-2200:** Autopilot (Rudder) Servo and Cable Detailed Inspection

**Zone:** 331, 351, 352

Task Notes	Mech	Insp

- (10) **Task 22-10-15-2200:** Autopilot (Elevator) Servo and Cable Detailed Inspection

**Zone:** 331, 351, 352

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Task Notes	Mech	Insp

- (11) **Task 22-10-19-2200:** Autopilot (Elevator Trim Tab) Servo and Cable Detailed Inspection  
**Zone:** 331, 351, 352

Task Notes	Mech	Insp

E. Wing Section Inspection Tasks

- (1) **Task 52-40-00-2103:** Wing Access Doors General Visual Inspection  
**Zone:** 500, 600

Task Notes	Mech	Insp

- (2) **Task 28-20-00-2104:** Fuel Probes General Visual Inspection  
**Zone:** 521, 621

Task Notes	Mech	Insp

- (3) **Task 57-00-00-2103:** Wing Attach Fitting Drain Holes General Visual Inspection  
**Zone:** 513, 613

Task Notes	Mech	Insp

- (4) **Task 33-40-00-2103:** Lights (Wing) General Visual Inspection  
**Zone:** 330, 340, 550, 650

Task Notes	Mech	Insp

- (5) **Task 28-20-00-2103:** Fuel Tanks and Vents General Visual Inspection  
**Zone:** 500, 600

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Task Notes	Mech	Insp

- (6) **Task 57-00-00-2102:** Static Ground Receptacles General Visual Inspection  
**Zone:** 300, 500, 600

Task Notes	Mech	Insp

- (7) **Task 28-20-00-2105:** Integral Fuel Tank General Visual Inspection  
**Zone:** 532, 542, 632, 642

Task Notes	Mech	Insp

- (8) **Task 30-10-01-7100:** Deicer Boots Operational Check  
**Zone:** 511, 521, 611, 621, 350

Task Notes	Mech	Insp

- (9) **Task 27-00-00-2102:** Flight Control Components, Cables, and Pulleys (Wing) General Visual Inspection  
**Zone:** 532, 542, 632, 642

Task Notes	Mech	Insp

- (10) **Task 27-00-00-2108:** Flaps and Actuators General Visual Inspection  
**Zone:** 513, 532, 533, 613, 632, 633

Task Notes	Mech	Insp

- (11) **Task 27-00-00-2114:** Flap Tracks General Visual Inspection  
**Zone:** 513, 533, 613, 633

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Task Notes	Mech	Insp

(12) **Task 27-50-11-7200:** Flap Safety Mechanism Functional Check

**Zone:** 513, 532, 533, 613, 632, 633

Task Notes	Mech	Insp

(13) **Task 28-20-00-2100:** Fuel Pumps General Visual Inspection

**Zone:** 512, 612

Task Notes	Mech	Insp

(14) **Task 26-20-05-2100:** Engine Fire Extinguisher General Visual Inspection

**Zone:** 521, 522, 621, 622, 730, 740

Task Notes	Mech	Insp

(15) **Task 26-20-05-7200:** Fire Extinguisher Activation Functional Check

**Zone:** 521, 522, 621, 622, 730, 740

Task Notes	Mech	Insp

(16) **Task 24-30-01-2100:** Battery General Visual Inspection

**Zone:** 611

Task Notes	Mech	Insp

(17) **Task 28-21-00-2200:** Extended Range Fuel Tank (Model 350ER/CER) Detailed Inspection

**Zone:** 410, 420, 521, 621

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Task Notes	Mech	Insp

F. Landing Gear Area Inspection Tasks

- (1) **Task 32-20-03-2103:** Electrical Wiring and Equipment (Nose Landing Gear) General Visual Inspection

**Zone:** 710

Task Notes	Mech	Insp

- (2) **Task 32-20-03-2102:** Nose Wheel General Visual Inspection

**Zone:** 121, 122, 710

Task Notes	Mech	Insp

- (3) **Task 32-20-03-2201:** Nose Gear Tire Detailed Inspection

**Zone:** 710

Task Notes	Mech	Insp

- (4) **Task 32-20-11-2100:** Shimmy Damper General Visual Inspection

**Zone:** 710

Task Notes	Mech	Insp

- (5) **Task 32-20-09-2100:** Nose Gear Drag Brace General Visual Inspection

**Zone:** 710

Task Notes	Mech	Insp

- (6) **Task 32-20-03-2101:** Nose Gear Steering Stop General Visual Inspection

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**Zone: 710**

Task Notes	Mech	Insp

(7) **Task 32-20-03-2100:** Steering Linkage General Visual Inspection

**Zone: 710, 730, 740**

Task Notes	Mech	Insp

(8) **Task 32-10-03-2100:** Main Wheels General Visual Inspection

**Zone: 710, 730, 740**

Task Notes	Mech	Insp

(9) **Task 32-40-01-2100:** Brakes General Visual Inspection

**Zone: 710, 730, 740**

Task Notes	Mech	Insp

(10) **Task 32-43-00-2100:** Brake Deice System (If Installed) General Visual Inspection

**Zone: 710, 730, 740**

Task Notes	Mech	Insp

(11) **Task 32-10-03-2200:** Main Gear Tire Detailed Inspection

**Zone: 730, 740**

Task Notes	Mech	Insp

(12) **Task 32-10-03-2211:** Landing Gear Struts Detailed Inspection

**Zone: 710, 730, 740**

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Task Notes	Mech	Insp

(13) **Task 32-10-03-2101:** Electrical Wiring and Equipment (Main Landing Gear) General Visual Inspection

**Zone:** 730, 740

Task Notes	Mech	Insp

G. Engine and Cowling Area Inspection Tasks

(1) **Task 30-60-01-2100:** Propeller Deicer Boots General Visual Inspection

**Zone:** 410

Task Notes	Mech	Insp

(2) **Task 61-10-01-2100:** Propeller General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(3) **Task 61-10-01-2104:** Beta Blocks General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(4) **Task 71-00-01-2200:** Engine Periodic Inspections

**Zone:** 410, 420

Task Notes	Mech	Insp

(5) **Task 28-20-00-2200:** Airframe Fuel Filters and Screens Detailed Inspection



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**Zone:** 521, 621

Task Notes	Mech	Insp

H. Operational Inspection Tasks

- (1) **Task 30-20-01-7100:** Engine Induction System Operational Check

**Zone:** 240, 410, 420

Task Notes	Mech	Insp

- (2) **Task 28-20-00-7100:** Fuel Tank Vents Operational Check

**Zone:** 512, 612

Task Notes	Mech	Insp

- (3) **Task 76-10-15-7100:** Ground Run Torque Operational Check

**Zone:** 410, 420

Task Notes	Mech	Insp

- (4) **Task 27-31-01-7100:** Stall Warning Heat Operational Check

**Zone:** 522

Task Notes	Mech	Insp

- (5) **Task 22-10-25-7100:** Autopilot Disconnect Aural Warning Operational Check (FL-954, FL-1010, FL-1031 thru FL-1139; FM-1 thru FM-75)

**Zone:** 248

Task Notes	Mech	Insp

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- (6) **Task 22-10-25-7101:** Autopilot Disconnect Aural Warning Operational Check (FL-1140 and On; FM-76 and On)

**Zone:** 248

Task Notes	Mech	Insp

- (7) **Task 22-10-27-7100:** Stall Warning Autopilot Disconnect Operational Check

**Zone:** 248

Task Notes	Mech	Insp

- (8) **Task 28-21-00-7200:** Fuel Transfer Functional Check (Model 350ER/CER)

**Zone:** 521, 522, 621, 622

Task Notes	Mech	Insp

**4. Post-Inspection Tasks**

A. Complete the following Post-Inspection Tasks.

- (1) **Task 25-60-01-7100:** Emergency Locator Transmitter (ARTEX C406-N) Operational Check

**Zone:** 311

Task Notes	Mech	Insp

- (2) **Task 35-00-00-2101:** Oxygen System Pressure General Visual Inspection

**Zone:** 282

Task Notes	Mech	Insp

- (3) **Task 25-60-09-2101:** Emergency and Survival Equipment (If Installed) General Visual Inspection

**Zone:** 261, 262, 271, 272, 282, 283

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Task Notes	Mech	Insp

- (4) **Task 27-00-00-6400:** Flight Controls (200 Hour) Lubrication  
**Zone:** 330, 340, 350, 500, 600

Task Notes	Mech	Insp

- (5) **Task 27-20-09-6400:** Rudder Control System Lubrication  
**Zone:** 330, 340

Task Notes	Mech	Insp

- (6) **Task 32-10-03-6400:** Landing Gear (200 Hour) Lubrication  
**Zone:** 710, 730, 740

Task Notes	Mech	Insp

- (7) **Task 52-10-01-6400:** Cabin Door Lubrication  
**Zone:** 830

Task Notes	Mech	Insp

- (8) **Task 52-30-00-6400:** Cargo Door Lubrication  
**Zone:** 830

Task Notes	Mech	Insp

- (9) **Task 61-10-01-6400:** Propeller Lubrication  
**Zone:** 410, 420

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Task Notes	Mech	Insp

(10) **Task** 76-00-00-6400: Engine Controls Lubrication

**Zone:** 410, 420

Task Notes	Mech	Insp

- B. If no other Inspection Details are to be completed at this time, complete the King Air Post-Inspection Checks specified in Inspection Task 5-15-00-8401.
- C. I certify that the Detail 3 Inspection was performed in accordance with the Super King Air Model B300/300C Fusion Inspection program and that the airplane is approved for return to service.

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E75147

<b>Owner:</b>		<b>Total Time :</b>	<b>Total Cycles :</b>
<b>W/O Number:</b>		<b>TSOH:</b>	<b>Cycles SOH :</b>
<b>Date In:</b>	<b>Date Out:</b>	<b>TSHSI:</b>	<b>Cycles SHSI :</b>
<b>Serial No:</b>	<b>Reg. No :</b>	<b>R Eng. Gas Gen. S/N:</b>	
<b>Last Inspection:</b>	<b>Phase:</b>	<b>R Eng. Power Module S/N:</b>	
<b>Last Inspection Date:</b>		<b>Total Time :</b>	<b>Total Cycles :</b>
<b>Last Inspection Hours:</b>		<b>TSOH :</b>	<b>Cycles SOH :</b>
<b>Hourmeter:</b>	<b>Total Time :</b>	<b>T SHSI :</b>	<b>Cycles SHSI :</b>
<b>Total Cycles:</b>		<b>L Prop S/N :</b>	
<b>Researched By :</b>		<b>L Prop Total Time:</b>	<b>TSOH :</b>
<b>Inspection Being Conducted Detail:</b>		<b>R Prop S/N :</b>	
<b>L Eng. Gas Gen. S/N:</b>		<b>R Prop Total Time :</b>	<b>TSOH :</b>
<b>L Eng. Power Module S/N:</b>			

Airplane Information  
 Figure 1 (Sheet 1)

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DATE:
MECHANIC:
CREW CHIEF:
QUALITY CONTROL INSPECTOR:



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**INSPECTION DETAIL 4**

**1. Description**

- A. Scheduled Inspection Program Detail 4 gives a list of Inspection Tasks to be completed at the first 800 hours or 48 months, whichever occurs first, then every 800 hours or 48 months thereafter.
- B. A brief inspection description and an inspection task number are given for each inspection. The airplane effectivity to which the inspection applies as well as the general location (Zone) where the inspection is to be done are also listed. The Inspection Task Number is linked to more detailed information in the manual about each inspection requirement.
- C. The following are provided for technician/inspector use during the inspection:
  - A table for each Inspection Task to give space for mechanic's and inspector's stamps or initials as well as any notes or remarks if needed.
  - A signature block at the end of the document to certify final completion of the Inspection Detail if required.
  - Figure 1, Airplane Information to record aircraft data such as flight hours, inspection dates and serial numbers if required.
- D. If it is necessary to replace/adjust a component or system during a task, complete any required return to service procedures for that system before the remaining steps of the task are completed.

**2. Pre-Inspection Checks**

- A. Complete the King Air Pre-Inspection Checks specified in Inspection Task 5-15-00-8400.

**3. Scheduled Inspection Program Detail 4 Inspections**

- A. Nose and Avionics Bay Inspection Tasks
  - (1) **Task 53-00-00-2113:** Nose Section General Visual Inspection  
**Zone:** 110, 120

Task Notes	Mech	Insp

- (2) **Task 53-00-00-2100:** Radome General Visual Inspection  
**Zone:** 110

Task Notes	Mech	Insp

- (3) **Task 37-10-01-1600:** Vacuum Regulator Valve Filter Cleaning  
**Zone:** 121

Task Notes	Mech	Insp

- (4) **Task 53-00-00-2101:** Avionics Compartment, Equipment and Racks (Nose and Avionics Bay) General Visual Inspection



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**Zone: 120**

Task Notes	Mech	Insp

- (5) **Task 52-40-00-2105:** Doors, Fasteners and Seal (Nose and Avionics Bay) General Visual Inspection

**Zone: 800**

Task Notes	Mech	Insp

- (6) **Task 21-51-01-2100:** Refrigerant Lines, Service Valves and High Pressure Relief Valves (Nose) General Visual Inspection

**Zone: 120**

Task Notes	Mech	Insp

- (7) **Task 21-52-11-2101:** Condenser Assembly Upper and Lower Mounting Brackets and Hardware General Visual Inspection

**Zone: 120**

Task Notes	Mech	Insp

**B. Flight Compartment Inspection Tasks**

- (1) **Task 56-10-01-2100:** Windshields General Visual Inspection

**Zone: 240**

Task Notes	Mech	Insp

- (2) **Task 56-00-00-2100:** Windows (Cockpit Side) General Visual Inspection

**Zone: 240**

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Task Notes	Mech	Insp

- (3) **Task 52-40-00-2100:** Pilot's Compartment Access Doors General Visual Inspection  
**Zone:** 110, 121, 122, 131, 132, 211, 212, 221, 222, 231, 232

Task Notes	Mech	Insp

- (4) **Task 22-30-00-2100:** Auto throttle Assembly General Visual Inspection (FL-1300, FL-1307 and After; FM-110 and After)  
**Zone:** 261, 262

Task Notes	Mech	Insp

- (5) **Task 22-30-00-7100:** Power Control Lever Movement Operational Check (FL-1300, FL-1307 and After; FM-110 and After)  
**Zone:** 261, 262

Task Notes	Mech	Insp

- (6) **Task 22-30-00-7101:** Auto throttle Friction Operational Check (FL-1300, FL-1307 and After; FM-110 and After)  
**Zone:** 261, 262

Task Notes	Mech	Insp

- (7) **Task 22-30-00-7102:** Auto throttle System Override Operational Check (FL-1300, FL-1307 and After; FM-110 and After)  
**Zone:** 261, 262

Task Notes	Mech	Insp

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C. Cabin Section Inspection Tasks

- (1) **Task 56-00-00-2101:** Windows (Cabin) General Visual Inspection

**Zone:** 271, 272, 281, 282

Task Notes	Mech	Insp

- (2) **Task 33-40-00-2100:** Lower Rotating Beacon Light General Visual Inspection

**Zone:** 163, 350

Task Notes	Mech	Insp

- (3) **Task 33-50-00-2100:** Emergency Exit Lights General Visual Inspection

**Zone:** 261, 262

Task Notes	Mech	Insp

- (4) **Task 21-30-03-1600:** Outflow Valve Control Line Draining (FL-1010, FL-1031 thru FL-1200, FL-1202 thru FL-1233; FM-66 thru FM-97)

**Zone:** 280

Task Notes	Mech	Insp

- (5) **Task 21-31-00-7200:** Pressurization System Tubing Leak Functional Check (FL-1201, FL-1234 and After; FM-98 and After with 7.0 PSI Pressurization System)

**Zone:** 280

Task Notes	Mech	Insp

- (6) **Task 21-31-01-7200:** Pressurization System Tubing Leak Functional Check (FL-1201, FL-1234 and After; FM-98 and After with 6.5 PSI Pressurization System)

**Zone:** 280

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Task Notes	Mech	Insp

- (7) **Task 21-31-00-7201:** Outflow Valve Functional Check (FL-1201, FL-1234 and After; FM-98 and After with 7.0 PSI Pressurization System)

**Zone:** 280

Task Notes	Mech	Insp

- (8) **Task 21-31-01-7201:** Outflow Valve Functional Test (FL-1201, FL-1234 and After; FM-98 and After with 6.5 PSI Pressurization System)

**Zone:** 280

Task Notes	Mech	Insp

- (9) **Task 22-10-07-2200:** Autopilot (Aileron) Servo and Cable Detailed Inspection

**Zone:** 163

Task Notes	Mech	Insp

- (10) **Task 52-40-00-2101:** Cabin Access Doors General Visual Inspection

**Zone:** 141, 142, 143, 151, 152, 153, 161, 162, 163, 171, 172, 261, 262, 271, 272, 281, 282

Task Notes	Mech	Insp

D. Rear Fuselage and Empennage Inspection Tasks

- (1) **Task 52-40-00-2102:** Rear Fuselage and Empennage Access Doors General Visual Inspection

**Zone:** 311, 312, 320, 330, 340, 350

Task Notes	Mech	Insp

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- (2) **Task 53-10-01-2100:** Aft Fuselage Moisture Drainage System General Visual Inspection  
**Zone:** 170

Task Notes	Mech	Insp

- (3) **Task 55-40-03-2200:** Rudder and Trim Tab Drain Holes Detailed Inspection  
**Zone:** 340, 360

Task Notes	Mech	Insp

- (4) **Task 53-00-00-2114:** Rear Fuselage and Empennage General Visual Inspection  
**Zone:** 311, 312, 320, 330, 340, 350

Task Notes	Mech	Insp

- (5) **Task 21-30-00-2102:** Cabin Pressurization Overboard Dump System General Visual Inspection  
**Zone:** 300, 310

Task Notes	Mech	Insp

- (6) **Task 55-30-01-2100:** Vertical Stabilizer General Visual Inspection  
**Zone:** 330

Task Notes	Mech	Insp

- (7) **Task 22-10-11-2200:** Autopilot (Rudder) Servo and Cable Detailed Inspection  
**Zone:** 331, 351, 352

Task Notes	Mech	Insp

- (8) **Task 22-10-15-2200:** Autopilot (Elevator) Servo and Cable Detailed Inspection

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**Zone:** 331, 351, 352

Task Notes	Mech	Insp

(9) **Task 22-10-19-2200:** Autopilot (Elevator Trim Tab) Servo and Cable Detailed Inspection

**Zone:** 331, 351, 352

Task Notes	Mech	Insp

(10) **Task 53-00-00-2108:** Plumbing (Rear Fuselage and Empennage) General Visual Inspection

**Zone:** 300, 310

Task Notes	Mech	Insp

E. Wing Section Inspection Tasks

(1) **Task 52-40-00-2103:** Wing Access Doors General Visual Inspection

**Zone:** 500, 600

Task Notes	Mech	Insp

(2) **Task 28-20-00-2104:** Fuel Probes General Visual Inspection

**Zone:** 521, 621

Task Notes	Mech	Insp

(3) **Task 57-00-00-2103:** Wing Attach Fitting Drain Holes General Visual Inspection

**Zone:** 513, 613

Task Notes	Mech	Insp

(4) **Task 33-40-00-2103:** Lights (Wing) General Visual Inspection

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**Zone:** 330, 340, 550, 650

Task Notes	Mech	Insp

(5) **Task 28-20-00-2103:** Fuel Tanks and Vents General Visual Inspection

**Zone:** 500, 600

Task Notes	Mech	Insp

(6) **Task 28-20-00-2105:** Integral Fuel Tank General Visual Inspection

**Zone:** 532, 542, 632, 642

Task Notes	Mech	Insp

(7) **Task 28-20-00-2100:** Fuel Pumps General Visual Inspection

**Zone:** 512, 612

Task Notes	Mech	Insp

(8) **Task 32-30-00-2101:** Landing Gear Power Pack and Motor General Visual Inspection

**Zone:** 511

Task Notes	Mech	Insp

(9) **Task 32-30-00-2103:** Bleed Air Pressure Overboard Relief Orifice Screen General Visual Inspection

**Zone:** 511

Task Notes	Mech	Insp

(10) **Task 24-30-01-2100:** Battery General Visual Inspection

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**Zone:** 611

Task Notes	Mech	Insp

(11) **Task 28-21-00-2200:** Extended Range Fuel Tank (Model 350ER/CER) Detailed Inspection

**Zone:** 410, 420, 521, 621

Task Notes	Mech	Insp

F. Landing Gear Area Inspection Tasks

(1) **Task 32-20-03-2102:** Nose Wheel General Visual Inspection

**Zone:** 121, 122, 710

Task Notes	Mech	Insp

(2) **Task 32-20-03-2201:** Nose Gear Tire Detailed Inspection

**Zone:** 710

Task Notes	Mech	Insp

(3) **Task 32-20-11-2100:** Shimmy Damper General Visual Inspection

**Zone:** 710

Task Notes	Mech	Insp

(4) **Task 32-20-09-2100:** Nose Gear Drag Brace General Visual Inspection

**Zone:** 710

Task Notes	Mech	Insp

(5) **Task 32-20-03-2101:** Nose Gear Steering Stop General Visual Inspection



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**Zone: 710**

Task Notes	Mech	Insp

(6) **Task 32-20-03-2200:** Nose Landing Gear Lower Drag Leg Detailed Inspection

**Zone: 710**

Task Notes	Mech	Insp

(7) **Task 32-30-11-2100:** Nose Landing Gear Actuator General Visual Inspection

**Zone: 710**

Task Notes	Mech	Insp

(8) **Task 32-20-03-2104:** Nose Landing Gear Area General Visual Inspection

**Zone: 710**

Task Notes	Mech	Insp

(9) **Task 32-20-03-2100:** Steering Linkage General Visual Inspection

**Zone: 710**

Task Notes	Mech	Insp

(10) **Task 32-10-03-2100:** Main Wheels General Visual Inspection

**Zone: 730, 740**

Task Notes	Mech	Insp

(11) **Task 32-40-01-2100:** Brakes General Visual Inspection

**Zone: 710, 730, 740**

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Task Notes	Mech	Insp

(12) **Task 32-43-00-2100:** Brake Deice System (If Installed) General Visual Inspection  
**Zone:** 710, 730, 740

Task Notes	Mech	Insp

(13) **Task 32-10-03-2200:** Main Gear Tire Detailed Inspection  
**Zone:** 730, 740

Task Notes	Mech	Insp

(14) **Task 32-10-03-2211:** Landing Gear Struts Detailed Inspection  
**Zone:** 710, 730, 740

Task Notes	Mech	Insp

(15) **Task 32-10-03-2101:** Electrical Wiring and Equipment (Main Landing Gear) General Visual Inspection  
**Zone:** 730, 740

Task Notes	Mech	Insp

(16) **Task 32-30-05-2100:** Main Landing Gear Actuator General Visual Inspection  
**Zone:** 730, 740

Task Notes	Mech	Insp

(17) **Task 57-00-00-2200:** Main Lower Spar Cap Bumper Block Detailed Inspection (Extended Range and Heavy Weight Airplanes Only)

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**Zone:** 730, 740

Task Notes	Mech	Insp

(18) **Task 32-10-03-2102:** Main Landing Gear Drag Brace General Visual Inspection

**Zone:** 730, 740

Task Notes	Mech	Insp

(19) **Task 32-10-03-2103:** Main Landing Gear Area General Visual Inspection

**Zone:** 730, 740

Task Notes	Mech	Insp

(20) **Task 32-30-00-2102:** Emergency Extension Hand Pump Suction Line Filter General Visual Inspection

**Zone:** 131

Task Notes	Mech	Insp

G. Engine Cowling Area Inspection Tasks

(1) **Task 30-60-01-2100:** Propeller Deicer Boots General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(2) **Task 61-10-01-2200:** Propeller Detailed Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

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- (3) **Task 71-00-01-2200:** Engine Periodic Inspections  
**Zone:** 410, 420

Task Notes	Mech	Insp

- (4) **Task 28-20-00-2200:** Airframe Fuel Filters and Screens Detailed Inspection  
**Zone:** 521, 621

Task Notes	Mech	Insp

- (5) **Task 79-00-00-2101:** Drain Plugs General Visual Inspection  
**Zone:** 410, 420

Task Notes	Mech	Insp

- (6) **Task 71-10-00-2100:** Cowling General Visual Inspection  
**Zone:** 410, 420

Task Notes	Mech	Insp

- (7) **Task 79-00-00-2100:** Oil Cooler General Visual Inspection  
**Zone:** 410, 420

Task Notes	Mech	Insp

- (8) **Task 71-00-01-2100:** Fireseals General Visual Inspection  
**Zone:** 410, 420

Task Notes	Mech	Insp

- (9) **Task 78-00-00-2100:** Exhaust System General Visual Inspection

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**Zone:** 410, 420

Task Notes	Mech	Insp

(10) **Task** 76-00-00-2101: Engine and Propeller Controls General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(11) **Task** 76-00-00-2100: Control Cable Boots General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(12) **Task** 24-30-03-2100: Starter-Generator Brushes General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(13) **Task** 79-30-05-2200: Magnetic Chip Detector Detailed Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(14) **Task** 21-51-01-2107: Air Conditioning Compressor General Visual Inspection

**Zone:** 420

Task Notes	Mech	Insp

(15) **Task** 21-51-01-2103: Refrigerant Lines and Service Valve (Engine Cowling) General Visual Inspection

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**Zone:** 120

Task Notes	Mech	Insp

(16) **Task** 71-70-01-1600: Fuel Purge Tank Cleaning

**Zone:** 410, 420

Task Notes	Mech	Insp

(17) **Task** 71-70-03-1600: Fuel Purge System Air Filter Cleaning

**Zone:** 410, 420

Task Notes	Mech	Insp

(18) **Task** 71-70-00-1600: Fuel Purge System Check Valve Cleaning

**Zone:** 410, 420

Task Notes	Mech	Insp

(19) **Task** 71-70-00-7200: Fuel Purge System Flow Divider/Purge Valve Functional Check

**Zone:** 410, 420

Task Notes	Mech	Insp

H. Landing Gear Retraction Inspection Tasks

(1) **Task** 32-30-00-7201: Retract Mechanism Functional Check

**Zone:** 710, 730, 740

Task Notes	Mech	Insp

(2) **Task** 32-10-03-2210: Main Landing Gear Doors and Linkage Detailed Inspection

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**Zone:** 730, 740

Task Notes	Mech	Insp

(3) **Task 32-20-03-2211:** Nose Landing Gear Doors and Linkage Detailed Inspection

**Zone:** 710

Task Notes	Mech	Insp

(4) **Task 32-30-00-7101:** Position Indicators and Warning Horn Operational Check

**Zone:** 231, 232

Task Notes	Mech	Insp

(5) **Task 32-30-03-2200:** Downlock Mechanism Detailed Inspection

**Zone:** 730, 740

Task Notes	Mech	Insp

(6) **Task 32-10-03-7100:** Main Landing Gear Safety Switch Operational Check

**Zone:** 710, 730, 740

Task Notes	Mech	Insp

(7) **Task 32-30-00-7102:** Actuators Operational Check

**Zone:** 710, 730, 740

Task Notes	Mech	Insp

(8) **Task 32-30-00-7100:** Emergency Extension Operational Check

**Zone:** 700

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Task Notes	Mech	Insp

- (9) **Task 32-30-00-7200:** Landing Gear Power Pack Motor 20 Second Time Delay Relay Functional Check

**Zone:** 512, 612

Task Notes	Mech	Insp

I. Operational Inspection Tasks

- (1) **Task 30-20-01-7100:** Engine Induction System Operational Check

**Zone:** 410, 420

Task Notes	Mech	Insp

- (2) **Task 23-00-00-7100:** Communications System Operational Check

**Zone:** 231, 232

Task Notes	Mech	Insp

- (3) **Task 28-20-00-7100:** Fuel Tank Vents Operational Check

**Zone:** 512, 612

Task Notes	Mech	Insp

**4. Post-Inspection Tasks**

A. Complete the following Post-Inspection Tasks.

- (1) **Task 25-60-01-7100:** Emergency Locator Transmitter (ARTEX C406-N) Operational Check

**Zone:** 311



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Task Notes	Mech	Insp

- (2) **Task 35-00-00-2101:** Oxygen System Pressure General Visual Inspection  
**Zone:** 282

Task Notes	Mech	Insp

- (3) **Task 25-60-09-2101:** Emergency and Survival Equipment (If Installed) General Visual Inspection  
**Zone:** 261, 262, 271, 272, 282, 283

Task Notes	Mech	Insp

- (4) **Task 21-51-01-6400:** Compressor Quill Shaft Lubrication  
**Zone:** 410, 420

Task Notes	Mech	Insp

- (5) **Task 27-00-00-6400:** Flight Controls (200 Hour) Lubrication  
**Zone:** 330, 340, 350, 500, 600

Task Notes	Mech	Insp

- (6) **Task 27-00-00-6401:** Aileron Controls System (400 Hour) Lubrication  
**Zone:** 542, 642

Task Notes	Mech	Insp

- (7) **Task 27-00-00-6402:** Control Column (800 Hour) Lubrication  
**Zone:** 143

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Task Notes	Mech	Insp

(8) **Task 27-10-15-6400:** Aileron Trim Tab Actuator Lubrication  
**Zone:** 542, 642

Task Notes	Mech	Insp

(9) **Task 27-20-09-6400:** Rudder Control System (200 Hour) Lubrication  
**Zone:** 330, 340

Task Notes	Mech	Insp

(10) **Task 27-20-09-6401:** Rudder Control System (400 Hour) Lubrication  
**Zone:** 330, 340

Task Notes	Mech	Insp

(11) **Task 27-20-11-6400:** Rudder Trim Tab Actuator Lubrication  
**Zone:** 331

Task Notes	Mech	Insp

(12) **Task 27-30-07-6400:** Elevator Trim Tab Actuator Lubrication  
**Zone:** 351

Task Notes	Mech	Insp

(13) **Task 32-10-03-6400:** Landing Gear (200) Lubrication  
**Zone:** 710, 730, 740

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Task Notes	Mech	Insp

(14) **Task 32-10-03-6401:** Main Landing Gear Door Linkage Lubrication  
**Zone:** 730, 740, 800

Task Notes	Mech	Insp

(15) **Task 32-10-03-6402:** Landing Gear (800 Hour) Lubrication  
**Zone:** 710, 730, 740, 800

Task Notes	Mech	Insp

(16) **Task 52-10-01-6400:** Cabin Door Lubrication  
**Zone:** 830

Task Notes	Mech	Insp

(17) **Task 52-20-01-6400:** Emergency Exit Door (800 Hour) Lubrication  
**Zone:** 821, 822

Task Notes	Mech	Insp

(18) **Task 52-30-00-6400:** Cargo Door Lubrication  
**Zone:** 830

Task Notes	Mech	Insp

(19) **Task 61-10-01-6400:** Propeller Lubrication  
**Zone:** 410, 420

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Task Notes	Mech	Insp

(20) **Task** 76-00-00-6400: Engine Controls Lubrication

**Zone:** 410, 420

Task Notes	Mech	Insp

- B. If no other Inspection Details are to be completed at this time, complete the King Air Post-Inspection Checks specified in Inspection Task 5-15-00-8401.
- C. I certify that the Detail 4 Inspection was performed in accordance with the Super King Air Model B300/300C Fusion Inspection program and that the airplane is approved for return to service.

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E75147

<b>Owner:</b>		<b>Total Time :</b>	<b>Total Cycles :</b>
<b>W/O Number:</b>		<b>TSOH:</b>	<b>Cycles SOH :</b>
<b>Date In:</b>	<b>Date Out:</b>	<b>TSHSI:</b>	<b>Cycles SHSI :</b>
<b>Serial No:</b>	<b>Reg. No :</b>	<b>R Eng. Gas Gen. S/N:</b>	
<b>Last Inspection:</b>	<b>Phase:</b>	<b>R Eng. Power Module S/N:</b>	
<b>Last Inspection Date:</b>		<b>Total Time :</b>	<b>Total Cycles :</b>
<b>Last Inspection Hours:</b>		<b>TSOH :</b>	<b>Cycles SOH :</b>
<b>Hourmeter:</b>	<b>Total Time :</b>	<b>T SHSI :</b>	<b>Cycles SHSI :</b>
<b>Total Cycles:</b>		<b>L Prop S/N :</b>	
<b>Researched By :</b>		<b>L Prop Total Time:</b>	<b>TSOH :</b>
<b>Inspection Being Conducted Detail:</b>		<b>R Prop S/N :</b>	
<b>L Eng. Gas Gen. S/N:</b>		<b>R Prop Total Time :</b>	<b>TSOH :</b>
<b>L Eng. Power Module S/N:</b>			

Airplane Information  
 Figure 1 (Sheet 1)

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<b>DATE:</b>
<b>MECHANIC:</b>
<b>CREW CHIEF:</b>
<b>QUALITY CONTROL INSPECTOR:</b>



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**INSPECTION DETAIL 5**

**1. Description**

- A. Scheduled Inspection Program Detail 5 gives a list of Inspection Tasks to be completed at the first dual inspection interval. The first dual inspection interval contains all Detail 1 and Detail 2 inspections, without duplicates, and must be completed every 24 months.
- B. A brief inspection description and an inspection task number are given for each inspection. The airplane effectivity to which the inspection applies as well as the general location (Zone) where the inspection is to be done are also listed. The Inspection Task Number is linked to more detailed information in the manual about each inspection requirement.
- C. The following are provided for technician/inspector use during the inspection:
  - A table for each Inspection Task to give space for mechanic's and inspector's stamps or initials as well as any notes or remarks if needed.
  - A signature block at the end of the document to certify final completion of the Inspection Detail if required.
  - Figure 1, Airplane Information to record aircraft data such as flight hours, inspection dates and serial numbers if required.
- D. If it is necessary to replace/adjust a component or system during a task, complete any required return to service procedures for that system before the remaining steps of the task are completed.

**2. Pre-Inspection Checks**

- A. Complete the King Air Pre-Inspection Checks specified in Inspection Task 5-15-00-8400.

**3. Scheduled Inspection Program Detail 5 Inspections**

- A. Nose and Avionics Bay Inspection Tasks
  - (1) **Task 53-00-00-2100:** Radome General Visual Inspection

**Zone:** 110

Task Notes	Mech	Insp

- (2) **Task 37-10-01-1600:** Vacuum Regulator Valve Filter Cleaning

**Zone:** 121

Task Notes	Mech	Insp

- (3) **Task 53-00-00-2109:** Electrical Wiring and Equipment (Nose and Avionics Bay) General Visual Inspection

**Zone:** 120

Task Notes	Mech	Insp



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- (4) **Task 52-40-00-2105:** Doors, Fasteners and Seal (Nose and Avionics Bay) General Visual Inspection

**Zone:** 811, 812

Task Notes	Mech	Insp

- (5) **Task 21-51-01-2108:** Air Conditioning Condenser General Visual Inspection

**Zone:** 220

Task Notes	Mech	Insp

- (6) **Task 33-40-00-2102:** Landing and Taxi Lights General Visual Inspection

**Zone:** 710, 730, 740

Task Notes	Mech	Insp

- (7) **Task 21-51-01-2109:** Condenser Blower General Visual Inspection

**Zone:** 121, 122

Task Notes	Mech	Insp

B. Flight Compartment Inspection Tasks

- (1) **Task 56-10-01-2100:** Windshields General Visual Inspection

**Zone:** 231, 232, 249, 251, 252

Task Notes	Mech	Insp

- (2) **Task 56-00-00-2100:** Windows (Cockpit Side) General Visual Inspection

**Zone:** 240

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Task Notes	Mech	Insp

- (3) **Task 25-10-00-2100:** Pilot and Copilot Seat Belt and Shoulder Harness General Visual Inspection

**Zone:** 261, 262

Task Notes	Mech	Insp

- (4) **Task 52-40-00-2100:** Pilot's Compartment Access Doors General Visual Inspection

**Zone:** 110, 121, 122, 131, 132, 211, 212, 221, 222, 231, 232

Task Notes	Mech	Insp

- (5) **Task 25-10-03-2100:** Upholstery Panels General Visual Inspection

**Zone:** 241, 242, 243, 251, 252, 253, 249

Task Notes	Mech	Insp

- (6) **Task 22-30-00-2100:** Autothrottle Assembly General Visual Inspection

**Zone:** 261, 262

Task Notes	Mech	Insp

- (7) **Task 22-30-00-7100:** Power Lever Control Movement Operational Check

**Zone:** 261, 262

Task Notes	Mech	Insp

C. Cabin Section Inspection Tasks

- (1) **Task 56-00-00-2101:** Windows (Cabin) General Visual Inspection

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**Zone:** 271, 272, 281, 282

Task Notes	Mech	Insp

(2) **Task 33-40-00-2100:** Lower Rotating Beacon Light General Visual Inspection

**Zone:** 163

Task Notes	Mech	Insp

(3) **Task 33-50-00-2100:** Emergency Exit Lights General Visual Inspection

**Zone:** 261, 262, 271, 272

Task Notes	Mech	Insp

(4) **Task 21-30-03-1600:** Outflow Valve Control Line Draining (FL-1010, FL-1031 thru FL-1200, FL-1202 thru FL-1233; FM-66 thru FM-97)

**Zone:** 281, 282

Task Notes	Mech	Insp

(5) **Task 25-20-01-2100:** Passenger Seat Belts and Shoulder Harnesses General Visual Inspection

**Zone:** 261, 262, 281, 282

Task Notes	Mech	Insp

(6) **Task 21-51-01-1600:** Cabin Air Filter Cleaning (FL-954, FL-1010, FL-1031 and On)

**Zone:** 200

Task Notes	Mech	Insp

(7) **Task 38-30-01-2100:** Toilet General Visual Inspection

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**Zone:** 282

Task Notes	Mech	Insp

(8) **Task** 52-40-00-2101: Cabin Access Doors General Visual Inspection

**Zone:** 141, 142, 143, 151, 152, 153, 161, 162, 163, 171, 172, 261, 262, 271, 272, 281, 282

Task Notes	Mech	Insp

(9) **Task** 52-10-01-2100: Cabin Entrance Door General Visual Inspection (FL-954, FL-1010, FL-1031 and On)

**Zone:** 830

Task Notes	Mech	Insp

(10) **Task** 52-30-00-2100: Cabin Cargo Door and Cabin Entrance Door (FM) General Visual Inspection (FM-66 and On)

**Zone:** 830

Task Notes	Mech	Insp

(11) **Task** 35-00-00-7201: Oxygen System Manual Operation Functional Check

**Zone:** 282

Task Notes	Mech	Insp

(12) **Task** 22-10-07-2200: Autopilot (Aileron) Servo and Cable Detailed Inspection

**Zone:** 710, 730, 740

Task Notes	Mech	Insp

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D. Rear Fuselage and Empennage Inspection Tasks

- (1) **Task 53-10-01-2100:** Aft Fuselage Moisture Drainage System General Visual Inspection

**Zone:** 170

Task Notes	Mech	Insp

- (2) **Task 33-40-00-2101:** Navigation Light and Upper Beacon Light General Visual Inspection

**Zone:** 350, 550, 650

Task Notes	Mech	Insp

- (3) **Task 55-40-03-2200:** Rudder and Trim Tab Drain Holes Detailed Inspection

**Zone:** 340, 360

Task Notes	Mech	Insp

- (4) **Task 53-00-00-2114:** Rear Fuselage and Empennage General Visual Inspection

**Zone:** 311, 312, 320, 330, 340, 350

Task Notes	Mech	Insp

- (5) **Task 21-30-00-2102:** Cabin Pressurization Overboard Dump System General Visual Inspection

**Zone:** 311, 312

Task Notes	Mech	Insp

- (6) **Task 52-40-00-2102:** Rear Fuselage and Empennage Access Doors General Visual Inspection

**Zone:** 311, 312, 320, 330, 340, 350

Task Notes	Mech	Insp

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- (7) **Task 53-00-00-2112:** Electrical Wiring and Equipment (Rear Fuselage and Empennage) General Visual Inspection

**Zone:** 311, 312, 320, 330, 350

Task Notes	Mech	Insp

- (8) **Task 53-00-00-2107:** Avionics and Autopilot Equipment and Racks (Rear Fuselage and Empennage) General Visual Inspection

**Zone:** 311, 312

Task Notes	Mech	Insp

- (9) **Task 55-30-01-2101:** Vertical Stabilizer General Visual Inspection

**Zone:** 330

Task Notes	Mech	Insp

- (10) **Task 55-10-01-2800:** Horizontal Stabilizer (Borescope) Special Detailed Inspection

**Zone:** 350

Task Notes	Mech	Insp

- (11) **Task 27-00-00-2103:** Flight Control Components, Cables, and Pulleys (Rear Fuselage and Empennage) General Visual Inspection

**Zone:** 311, 312, 320, 330, 340, 350

Task Notes	Mech	Insp

- (12) **Task 27-00-00-2105:** Control Cable Seals (Rear Fuselage and Empennage) General Visual Inspection

**Zone:** 311, 312

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Task Notes	Mech	Insp

(13) **Task 22-10-11-2200:** Autopilot (Rudder) Servo and Cable Detailed Inspection  
**Zone:** 340

Task Notes	Mech	Insp

(14) **Task 22-10-15-2200:** Autopilot (Elevator) Servo and Cable Detailed Inspection  
**Zone:** 351, 352

Task Notes	Mech	Insp

(15) **Task 22-10-19-2200:** Autopilot (Elevator Trim Tab) Servo and Cable Detailed Inspection  
**Zone:** 351, 352

Task Notes	Mech	Insp

(16) **Task 53-00-00-2108:** Plumbing (Rear Fuselage and Empennage) General Visual Inspection  
**Zone:** 311, 312, 320, 330, 350

Task Notes	Mech	Insp

(17) **Task 35-00-00-2100:** Oxygen Bottle Plumbing General Visual Inspection  
**Zone:** 282, 311, 312

Task Notes	Mech	Insp

E. Wing Section Inspection Tasks

(1) **Task 52-40-00-2103:** Wing Access Doors General Visual Inspection  
**Zone:** 500, 600

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Task Notes	Mech	Insp

- (2) **Task 28-20-00-2104:** Fuel Probes General Visual Inspection  
**Zone:** 513, 613

Task Notes	Mech	Insp

- (3) **Task 57-00-00-2103:** Wing Attach Fitting Drain Holes General Visual Inspection  
**Zone:** 710, 730, 740

Task Notes	Mech	Insp

- (4) **Task 33-40-00-2103:** Lights (Wing) General Visual Inspection  
**Zone:** 550, 650

Task Notes	Mech	Insp

- (5) **Task 28-20-00-2103:** Fuel Tanks and Vents General Visual Inspection  
**Zone:** 500, 600

Task Notes	Mech	Insp

- (6) **Task 28-20-00-2102:** Nacelle Fuel Cell General Visual Inspection  
**Zone:** 521, 621

Task Notes	Mech	Insp

- (7) **Task 57-00-00-2102:** Static Ground Receptacles General Visual Inspection  
**Zone:** 300, 500, 600



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Task Notes	Mech	Insp

(8) **Task 28-20-00-2105:** Integral Fuel Tank General Visual Inspection  
**Zone:** 532, 542, 632, 642

Task Notes	Mech	Insp

(9) **Task 30-10-01-7100:** Deicer Boots Operational Check  
**Zone:** 511, 521, 611, 621, 350

Task Notes	Mech	Insp

(10) **Task 57-00-00-2100:** Wings General Visual Inspection  
**Zone:** 500, 600

Task Notes	Mech	Insp

(11) **Task 27-00-00-2202:** Aileron (Left and Right) Detailed Inspection  
**Zone:** 543, 643

Task Notes	Mech	Insp

(12) **Task 27-00-00-2112:** Aileron, Outboard Flap and Inboard Flap General Visual Inspection  
**Zone:** 532, 542, 632, 642

Task Notes	Mech	Insp

(13) **Task 57-00-00-2101:** Electrical Wiring and Equipment (Wing) General Visual Inspection  
**Zone:** 532, 542, 632, 642

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Task Notes	Mech	Insp

(14) **Task 27-00-00-2102:** Flight Control Components, Cables, and Pulleys (Wing) General Visual Inspection

**Zone:** 532, 542, 632, 642

Task Notes	Mech	Insp

(15) **Task 27-00-00-2108:** Flaps and Actuators General Visual Inspection

**Zone:** 513, 532, 533, 613, 632, 633

Task Notes	Mech	Insp

(16) **Task 27-00-00-2114:** Flap Tracks General Visual Inspection

**Zone:** 513, 533, 613, 633

Task Notes	Mech	Insp

(17) **Task 27-50-11-7200:** Flap Safety Mechanism Functional Check

**Zone:** 512, 532, 533, 613, 632, 633

Task Notes	Mech	Insp

(18) **Task 28-20-00-2101:** Leading Edge and Nacelle Fuel Plumbing General Visual Inspection

**Zone:** 410, 420, 521, 621

Task Notes	Mech	Insp

(19) **Task 52-40-00-2104:** Hinged Access Doors Above Doors No. 532CB, 532HB, and 632CB, 632HB General Visual Inspection

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**Zone:** 532, 632

Task Notes	Mech	Insp

(20) **Task 28-20-00-2100:** Fuel Pumps General Visual Inspection

**Zone:** 512, 612

Task Notes	Mech	Insp

(21) **Task 26-20-05-2100:** Engine Fire Extinguisher General Visual Inspection

**Zone:** 521, 522, 621, 622, 730, 740

Task Notes	Mech	Insp

(22) **Task 26-20-05-7200:** Fire Extinguisher Activation Functional Check

**Zone:** 521, 522, 621, 622, 730, 740

Task Notes	Mech	Insp

(23) **Task 24-30-01-2100:** Battery General Visual Inspection

**Zone:** 611

Task Notes	Mech	Insp

(24) **Task 28-20-00-2106:** Center Section General Visual Inspection

**Zone:** 511, 512, 611, 612

Task Notes	Mech	Insp

(25) **Task 21-51-01-2102:** Refrigerant Lines and Pressure Switches (Wing) General Visual Inspection

**Zone:** 120

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Task Notes	Mech	Insp

(26) **Task 28-21-00-2200:** Extended Range Fuel Tank (Model 350ER/CER) Detailed Inspection  
**Zone:** 410, 420, 521, 621

Task Notes	Mech	Insp

F. Landing Gear Area Inspection Tasks

(1) **Task 32-20-03-2102:** Nose Wheel General Visual Inspection  
**Zone:** 121, 122, 710

Task Notes	Mech	Insp

(2) **Task 32-20-03-2201:** Nose Gear Tire Detailed Inspection  
**Zone:** 710

Task Notes	Mech	Insp

(3) **Task 32-20-11-2100:** Shimmy Damper General Visual Inspection  
**Zone:** 710

Task Notes	Mech	Insp

(4) **Task 32-20-09-2100:** Nose Gear Drag Brace General Visual Inspection  
**Zone:** 710

Task Notes	Mech	Insp

(5) **Task 32-20-03-2101:** Nose Gear Steering Stop General Visual Inspection  
**Zone:** 710

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Task Notes	Mech	Insp

(6) **Task 32-20-03-2100:** Steering Linkage General Visual Inspection  
**Zone:** 710

Task Notes	Mech	Insp

(7) **Task 32-30-11-2100:** Nose Landing Gear Actuator General Visual Inspection  
**Zone:** 710

Task Notes	Mech	Insp

(8) **Task 32-10-03-2100:** Main Wheels General Visual Inspection  
**Zone:** 730, 740

Task Notes	Mech	Insp

(9) **Task 32-40-01-2100:** Brakes General Visual Inspection  
**Zone:** 710, 730, 740

Task Notes	Mech	Insp

(10) **Task 32-43-00-2100:** Brake Deice System (If Installed) General Visual Inspection  
**Zone:** 710, 730, 740

Task Notes	Mech	Insp

(11) **Task 32-10-03-2200:** Main Gear Tire Detailed Inspection  
**Zone:** 730, 740

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Task Notes	Mech	Insp

(12) **Task 32-10-03-2211:** Landing Gear Struts Detailed Inspection  
**Zone:** 710, 730, 740

Task Notes	Mech	Insp

(13) **Task 32-10-03-2101:** Electrical Wiring and Equipment (Main Landing Gear) General Visual Inspection  
**Zone:** 730, 740

Task Notes	Mech	Insp

(14) **Task 32-30-05-2100:** Main Landing Gear Actuator General Visual Inspection  
**Zone:** 730, 740

Task Notes	Mech	Insp

(15) **Task 57-00-00-2200:** Main Lower Spar Cap Bumper Block Detailed Inspection (Extended Range and Heavy Weight Airplanes Only)  
**Zone:** 730, 740

Task Notes	Mech	Insp

G. Engine and Cowling Area Inspection Tasks

(1) **Task 30-60-01-2100:** Propeller Deicer Boots General Visual Inspection  
**Zone:** 410, 420

Task Notes	Mech	Insp

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- (2) **Task 61-10-01-2100:** Propeller General Visual Inspection  
**Zone:** 410, 420

Task Notes	Mech	Insp

- (3) **Task 61-10-01-2104:** Beta Blocks General Visual Inspection  
**Zone:** 410, 420

Task Notes	Mech	Insp

- (4) **Task 61-10-01-2200:** Propeller Detailed Inspection  
**Zone:** 410, 420

Task Notes	Mech	Insp

- (5) **Task 71-00-01-2200:** Engine Periodic Inspections  
**Zone:** 410, 420

Task Notes	Mech	Insp

- (6) **Task 28-20-00-2200:** Airframe Fuel Filters and Screens Detailed Inspection  
**Zone:** 521, 621

Task Notes	Mech	Insp

- (7) **Task 79-00-00-2101:** Drain Plugs General Visual Inspection  
**Zone:** 410, 420

Task Notes	Mech	Insp

- (8) **Task 71-10-00-2100:** Cowling General Visual Inspection

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**Zone:** 410, 420

Task Notes	Mech	Insp

(9) **Task** 79-00-00-2100: Oil Cooler General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(10) **Task** 71-00-01-2100: Fireseals General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(11) **Task** 78-00-00-2100: Exhaust System General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(12) **Task** 76-00-00-2101: Engine and Propeller Controls General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(13) **Task** 76-00-00-2100: Control Cable Boots General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(14) **Task** 24-30-03-2100: Starter-Generator Brushes General Visual Inspection

**Zone:** 410, 420



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Task Notes	Mech	Insp

(15) **Task 79-30-05-2200:** Magnetic Chip Detector Detailed Inspection  
**Zone:** 410, 420

Task Notes	Mech	Insp

(16) **Task 21-51-01-2107:** Air Conditioning Compressor General Visual Inspection  
**Zone:** 220

Task Notes	Mech	Insp

(17) **Task 21-51-01-2103:** Refrigerant Lines and Service Valve (Engine and Cowling) General Visual Inspection  
**Zone:** 120

Task Notes	Mech	Insp

(18) **Task 71-00-01-2101:** Engine Mount Truss Assembly General Visual Inspection  
**Zone:** 410, 420

Task Notes	Mech	Insp

(19) **Task 71-00-01-2202:** Engine Truss Bolt Torque Detailed Inspection  
**Zone:** 410, 420

Task Notes	Mech	Insp

(20) **Task 30-20-01-2200:** Induction System Detailed Inspection  
**Zone:** 410, 420

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Task Notes	Mech	Insp

(21) **Task 26-10-00-2100:** Fire Detection System General Visual Inspection  
**Zone:** 410, 420

Task Notes	Mech	Insp

(22) **Task 26-10-00-7200:** Fire Detection System Functional Check  
**Zone:** 410, 420

Task Notes	Mech	Insp

(23) **Task 61-10-01-2103:** Propeller Synchrophaser General Visual Inspection  
**Zone:** 410, 420

Task Notes	Mech	Insp

(24) **Task 61-21-00-2100:** Autofeather and Auto-Ignition Pressure Switches General Visual Inspection  
**Zone:** 410, 420

Task Notes	Mech	Insp

(25) **Task 61-10-01-2101:** Primary Propeller Governor General Visual Inspection  
**Zone:** 410, 420

Task Notes	Mech	Insp

(26) **Task 61-10-01-2102:** Overspeed Governor General Visual Inspection  
**Zone:** 410, 420

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Task Notes	Mech	Insp

(27) **Task 27-21-01-2100:** Rudder Boost Transducer General Visual Inspection  
**Zone:** 410, 420

Task Notes	Mech	Insp

(28) **Task 74-00-00-2100:** Ignition Exciter General Visual Inspection  
**Zone:** 410, 420

Task Notes	Mech	Insp

(29) **Task 71-70-01-1600:** Fuel Purge Tank Cleaning  
**Zone:** 410, 420

Task Notes	Mech	Insp

(30) **Task 71-70-03-1600:** Fuel Purge System Air Filter Cleaning  
**Zone:** 410, 420

Task Notes	Mech	Insp

(31) **Task 71-70-00-1600:** Fuel Purge System Check Valve Cleaning  
**Zone:** 410, 420

Task Notes	Mech	Insp

(32) **Task 71-70-00-7200:** Fuel Purge System Flow Divider/Purge Valve Functional Check  
**Zone:** 410, 420

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Task Notes	Mech	Insp

- (33) **Task 21-10-05-2100:** Environmental Bleed Air Flow Control Valve General Visual Inspection  
**Zone:** 410, 420

Task Notes	Mech	Insp

H. Operational Inspection Tasks

- (1) **Task 30-20-01-7100:** Engine Induction System Operational Check  
**Zone:** 240, 410, 420

Task Notes	Mech	Insp

- (2) **Task 28-20-00-7100:** Fuel Tank Vents Operational Check  
**Zone:** 512, 612

Task Notes	Mech	Insp

- (3) **Task 23-00-00-7100:** Communications System Operational Check  
**Zone:** 231, 232

Task Notes	Mech	Insp

**4. Post-Inspection Tasks**

A. Complete the following Post-Inspection Tasks.

- (1) **Task 25-60-01-7100:** Emergency Locator Transmitter (ARTEX C406-N) Operational Check  
**Zone:** 311

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Task Notes	Mech	Insp

- (2) **Task 35-00-00-2101:** Oxygen System Pressure General Visual Inspection  
**Zone:** 282

Task Notes	Mech	Insp

- (3) **Task 25-60-09-2101:** Emergency and Survival Equipment (If Installed) General Visual Inspection  
**Zone:** 261, 262, 271, 272, 282, 283

Task Notes	Mech	Insp

- (4) **Task 21-51-01-6400:** Compressor Quill Shaft Lubrication  
**Zone:** 410, 420

Task Notes	Mech	Insp

- (5) **Task 27-00-00-6400:** Flight Controls (200 Hour) Lubrication  
**Zone:** 330, 340, 350, 500, 600

Task Notes	Mech	Insp

- (6) **Task 27-00-00-6401:** Aileron Control System (400 Hour) Lubrication  
**Zone:** 542, 642

Task Notes	Mech	Insp

- (7) **Task 27-10-15-6400:** Aileron Trim Tab Actuator Lubrication  
**Zone:** 542, 642

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Task Notes	Mech	Insp

(8) **Task 27-20-09-6400:** Rudder Control System (200 Hour) Lubrication  
**Zone:** 330, 340

Task Notes	Mech	Insp

(9) **Task 27-20-09-6401:** Rudder Control System (400 Hour) Lubrication  
**Zone:** 330, 340

Task Notes	Mech	Insp

(10) **Task 27-20-11-6400:** Rudder Trim Tab Actuator Lubrication  
**Zone:** 331

Task Notes	Mech	Insp

(11) **Task 27-30-07-6400:** Elevator Trim Tab Actuator Lubrication  
**Zone:** 351

Task Notes	Mech	Insp

(12) **Task 32-10-03-6400:** Landing Gear (200 Hour) Lubrication  
**Zone:** 710, 720

Task Notes	Mech	Insp

(13) **Task 32-10-03-6401:** Main Landing Gear Door Linkage Lubrication  
**Zone:** 730, 740, 800

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Task Notes	Mech	Insp

(14) **Task 52-10-01-6400:** Cabin Door Lubrication

**Zone:** 830

Task Notes	Mech	Insp

(15) **Task 52-30-00-6400:** Cargo Door Lubrication

**Zone:** 830

Task Notes	Mech	Insp

(16) **Task 61-10-01-6400:** Propeller Lubrication

**Zone:** 410, 420

Task Notes	Mech	Insp

(17) **Task 76-00-00-6400:** Engine Controls Lubrication

**Zone:** 410, 420

Task Notes	Mech	Insp

- B. If no other Inspection Details are to be completed at this time, complete the King Air Post-Inspection Checks specified in Inspection Task 5-15-00-8401.
- C. I certify that the Detail 5 Inspection was performed in accordance with the Super King Air Model B300/300C Fusion Inspection program and that the airplane is approved for return to service.

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E75147

<b>Owner:</b>		<b>Total Time :</b>	<b>Total Cycles :</b>
<b>W/O Number:</b>		<b>TSOH:</b>	<b>Cycles SOH :</b>
<b>Date In:</b>	<b>Date Out:</b>	<b>TSHSI:</b>	<b>Cycles SHSI :</b>
<b>Serial No:</b>	<b>Reg. No :</b>	<b>R Eng. Gas Gen. S/N:</b>	
<b>Last Inspection:</b>	<b>Phase:</b>	<b>R Eng. Power Module S/N:</b>	
<b>Last Inspection Date:</b>		<b>Total Time :</b>	<b>Total Cycles :</b>
<b>Last Inspection Hours:</b>		<b>TSOH :</b>	<b>Cycles SOH :</b>
<b>Hourmeter:</b>	<b>Total Time :</b>	<b>T SHSI :</b>	<b>Cycles SHSI :</b>
<b>Total Cycles:</b>		<b>L Prop S/N :</b>	
<b>Researched By :</b>		<b>L Prop Total Time:</b>	<b>TSOH :</b>
<b>Inspection Being Conducted Detail:</b>		<b>R Prop S/N :</b>	
<b>L Eng. Gas Gen. S/N:</b>		<b>R Prop Total Time :</b>	<b>TSOH :</b>
<b>L Eng. Power Module S/N:</b>			

Airplane Information  
 Figure 1 (Sheet 1)



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<b>DATE:</b>
<b>MECHANIC:</b>
<b>CREW CHIEF:</b>
<b>QUALITY CONTROL INSPECTOR:</b>



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**INSPECTION DETAIL 6**

**1. Description**

- A. Scheduled Inspection Program Detail 6 gives a list of Inspection Tasks to be completed at the second dual inspection interval. The second dual inspection interval contains all Detail 3 and Detail 4 inspections, without duplicates, and must be completed every 48 months.
- B. A brief inspection description and an inspection task number are given for each inspection. The airplane effectivity to which the inspection applies as well as the general location (Zone) where the inspection is to be done are also listed. The Inspection Task Number is linked to more detailed information in the manual about each inspection requirement.
- C. The following are provided for technician/inspector use during the inspection:
  - A table for each Inspection Task to give space for mechanic's and inspector's stamps or initials as well as any notes or remarks if needed.
  - A signature block at the end of the document to certify final completion of the Inspection Detail if required.
  - Figure 1, Airplane Information to record aircraft data such as flight hours, inspection dates and serial numbers if required.
- D. If it is necessary to replace/adjust a component or system during a task, complete any required return to service procedures for that system before the remaining steps of the task are completed.

**2. Pre-Inspection Checks**

- A. Complete the King Air Pre-Inspection Checks specified in Inspection Task 5-15-00-8400.

**3. Scheduled Inspection Program Detail 6 Inspections**

- A. Nose and Avionics Bay Inspection Tasks
  - (1) **Task 53-00-00-2113: Nose Section General Visual Inspection**  
**Zone: 110, 120**

Task Notes	Mech	Insp

- (2) **Task 53-00-00-2100: Radome General Visual Inspection**  
**Zone: 110**

Task Notes	Mech	Insp

- (3) **Task 37-10-01-1600: Vacuum Regulator Valve Filter Cleaning**  
**Zone: 121**

Task Notes	Mech	Insp

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- (4) **Task 53-00-00-2101:** Avionics Compartment, Equipment and Racks (Nose and Avionics Bay) General Visual Inspection

**Zone:** 120

Task Notes	Mech	Insp

- (5) **Task 53-00-00-2109:** Electrical Wiring and Equipment (Nose and Avionics Bay) General Visual Inspection

**Zone:** 280

Task Notes	Mech	Insp

- (6) **Task 52-40-00-2105:** Doors, Fasteners and Seal (Nose and Avionics Bay) General Visual Inspection

**Zone:** 800

Task Notes	Mech	Insp

- (7) **Task 21-51-01-2100:** Refrigerant Lines, Service Valves and High Pressure Relief Valves (Nose) General Visual Inspection

**Zone:** 120

Task Notes	Mech	Insp

- (8) **Task 21-52-11-2101:** Condenser Assembly Upper and Lower Mounting Brackets and Hardware General Visual Inspection

**Zone:** 120

Task Notes	Mech	Insp

- (9) **Task 33-40-00-2102:** Landing and Taxi Lights General Visual Inspection

**Zone:** 710, 730, 740

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Task Notes	Mech	Insp

B. Flight Compartment Inspection Tasks

- (1) **Task 56-10-01-2100:** Windshields General Visual Inspection

**Zone:** 240

Task Notes	Mech	Insp

- (2) **Task 56-10-01-2200:** Windshields Detailed Inspection

**Zone:** 240

Task Notes	Mech	Insp

- (3) **Task 56-00-00-2100:** Windows (Cockpit Side) General Visual Inspection

**Zone:** 240

Task Notes	Mech	Insp

- (4) **Task 52-40-00-2100:** Pilot's Compartment Access Doors General Visual Inspection

**Zone:** 110, 121, 122, 131, 132, 211, 212, 221, 222, 231, 232

Task Notes	Mech	Insp

- (5) **Task 25-10-00-2100:** Pilot and Copilot Seat Belt and Shoulder Harness General Visual Inspection

**Zone:** 261, 262

Task Notes	Mech	Insp

- (6) **Task 26-21-00-2100:** Portable Fire Extinguisher (Flight Compartment) General Visual Inspection

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**Zone:** 281

Task Notes	Mech	Insp

(7) **Task** 53-00-00-2110: Electrical Wiring and Equipment (Flight Compartment) General Visual Inspection

**Zone:** 131, 132, 231, 232

Task Notes	Mech	Insp

(8) **Task** 21-51-01-2101: Refrigerant Lines and Service Valves (Flight Compartment) General Visual Inspection

**Zone:** 131, 132, 231, 232

Task Notes	Mech	Insp

(9) **Task** 27-20-09-2200: Rudder Pedal Arm Detailed Inspection

**Zone:** 131, 132, 231, 232

Task Notes	Mech	Insp

(10) **Task** 27-20-09-2100: Rudder Pedals General Visual Inspection

**Zone:** 131, 132, 231, 232

Task Notes	Mech	Insp

(11) **Task** 32-40-01-1600: Brake Fluid Reservoir Pressure Equalization Line and Orifice Cleaning

**Zone:** 221, 222

Task Notes	Mech	Insp

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- (12) **Task 27-00-00-2100:** Flight Compartment Flight Control Components, Cables, and Pulleys  
 General Visual Inspection

**Zone:** 131, 132, 231, 232

Task Notes	Mech	Insp

- (13) **Task 27-00-00-2103:** Flight Control Components, Cables, and Pulleys (Rear Fuselage and Empennage) General Visual Inspection

**Zone:** 311, 312, 320, 330, 340, 350

Task Notes	Mech	Insp

- (14) **Task 32-40-01-2101:** Brake System General Visual Inspection

**Zone:** 131, 132, 221, 222, 231, 232

Task Notes	Mech	Insp

- (15) **Task 31-10-00-2101:** Instrument Panel, Plumbing and Wiring General Visual Inspection

**Zone:** 221, 222, 242, 244, 245, 246, 247, 248, 249, 253

Task Notes	Mech	Insp

- (16) **Task 27-00-00-2106:** Control Column General Visual Inspection

**Zone:** 254, 255

Task Notes	Mech	Insp

- (17) **Task 27-00-00-7100:** Control Column Operational Check

**Zone:** 254, 255

Task Notes	Mech	Insp

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(18) **Task 27-10-05-2200:** Control Column Bearing Support Detailed Inspection

**Zone:** 143

Task Notes	Mech	Insp

(19) **Task 31-10-00-2100:** Pedestal General Visual Inspection

**Zone:** 243

Task Notes	Mech	Insp

(20) **Task 76-10-09-2200:** Engine Control Levers Detailed Inspection

**Zone:** 243

Task Notes	Mech	Insp

(21) **Task 76-10-09-2100:** Engine Control Levers Condition Control Catch Gate General Visual Inspection

**Zone:** 243

Task Notes	Mech	Insp

(22) **Task 21-30-00-2101:** Pressurization Controller General Visual Inspection (FL-1010, FL-1031 thru FL-1200, FL-1202 thru FL-1233; FM-66 thru FM-97\_

**Zone:** 243

Task Notes	Mech	Insp

(23) **Task 21-30-01-1600:** Pressurization Controller Filter Cleaning (FL-1010, FL-1031 thru FL-1200, FL-1202 thru FL-1233; FM-66 thru FM-97)

**Zone:** 243



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Task Notes	Mech	Insp

(24) **Task 25-10-00-2101:** Pilot and Copilot Seat Tracks General Visual Inspection  
**Zone:** 241, 242

Task Notes	Mech	Insp

(25) **Task 38-30-00-2100:** Relief Tube (If Installed - Flight Compartment) General Visual Inspection  
**Zone:** 221, 222

Task Notes	Mech	Insp

(26) **Task 24-60-00-7200:** Bus Conformity Functional Check  
**Zone:** 244, 245, 248

Task Notes	Mech	Insp

(27) **Task 21-51-01-2104:** Environmental System (Flight Compartment) General Visual Inspection  
**Zone:** 131, 132, 231, 232

Task Notes	Mech	Insp

(28) **Task 32-30-00-2100:** Manual Landing Gear Handle General Visual Inspection  
**Zone:** 241, 243

Task Notes	Mech	Insp

(29) **Task 27-30-21-2200:** Elevator Bob-Weight and Stop Detailed Inspection  
**Zone:** 131, 143

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Task Notes	Mech	Insp

(30) **Task 22-30-00-2100:** Auto throttle Assembly General Visual Inspection (FL-1300, FL-1307 and After; FM-110 and After)

**Zone:** 1261, 262

Task Notes	Mech	Insp

(31) **Task 22-30-00-7100:** Power Control Lever Movement Operational Check (FL-1300, FL-1307 and After; FM-110 and After)

**Zone:** 261, 262

Task Notes	Mech	Insp

(32) **Task 22-30-00-7101:** Auto throttle Friction Operational Check (FL-1300, FL-1307 and After; FM-110 and After)

**Zone:** 261, 262

Task Notes	Mech	Insp

(33) **Task 22-30-00-7102:** Auto throttle System Override Operational Check (FL-1300, FL-1307 and After; FM-110 and After)

**Zone:** 261, 262

Task Notes	Mech	Insp

C. Cabin Section Inspection Tasks

(1) **Task 56-00-00-2101:** Windows (Cabin) General Visual Inspection

**Zone:** 271, 272, 281, 282

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Task Notes	Mech	Insp

(2) **Task 52-40-00-2101:** Cabin Access Doors General Visual Inspection

**Zone:** 141, 142, 143, 151, 152, 153, 161, 162, 163, 171, 172, 261, 262, 271, 272, 281, 282

Task Notes	Mech	Insp

(3) **Task 21-51-01-1600:** Cabin Air Filter Cleaning (FL-954, FL-1010, FL-1031 and On)

**Zone:** 200

Task Notes	Mech	Insp

(4) **Task 33-40-00-2100:** Lower Rotating Beacon Light General Visual Inspection

**Zone:** 163, 350

Task Notes	Mech	Insp

(5) **Task 33-50-00-2100:** Emergency Exit Lights General Visual Inspection

**Zone:** 261, 262

Task Notes	Mech	Insp

(6) **Task 33-50-00-2101:** Emergency Exit Lights (Detail 3) General Visual Inspection

**Zone:** 261, 262

Task Notes	Mech	Insp

(7) **Task 21-30-03-1600:** Outflow Valve Control Line Draining (FL-1010, FL-1031 thru FL-1200, FL-1202 thru FL-1233; FM-66 thru FM-97)

**Zone:** 280

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Task Notes	Mech	Insp

- (8) **Task 21-30-03-1601:** Outflow and Safety Valves Servicing (FL-1010, FL-1031 thru FL-1200, FL-1202 thru FL-1233; FM-66 thru FM-97)

**Zone:** 281, 282

Task Notes	Mech	Insp

- (9) **Task 21-30-03-2100:** Outflow and Safety Valves General Visual Inspection (FL-1010, FL-1031 thru FL-1200, FL-1202 thru FL-1233; FM-66 thru FM-97)

**Zone:** 280

Task Notes	Mech	Insp

- (10) **Task 21-30-03-7200:** Outflow and Safety Valves Functional Check (FL-1010, FL-1031 thru FL-1200, FL-1202 thru FL-1233; FM-66 thru FM-97)

**Zone:** 280

Task Notes	Mech	Insp

- (11) **Task 21-30-00-7200:** Cabin Altitude Limit Controllers Functional Check (FL-1010, FL-1031 thru FL-1200, FL-1202 thru FL-1233; FM-66 thru FM-97)

**Zone:** 280

Task Notes	Mech	Insp

- (12) **Task 21-31-00-7202:** Pressurization CAS Messages Functional Check (FL-1201, FL-1234 and After; FM-98 and After with 7.0 PSI Pressurization System)

**Zone:** 280

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Task Notes	Mech	Insp

(13) **Task 21-31-01-7202:** Pressurization CAS Messages Functional Test (FL-1201, FL-1234 and After; FM-98 and After with 6.5 PSI Pressurization System)

**Zone:** 280

Task Notes	Mech	Insp

(14) **Task 21-31-00-7200:** Pressurization System Tubing Leak Functional Check (FL-1201, FL-1234 and After; FM-98 and After with 7.0 PSI Pressurization System)

**Zone:** 280

Task Notes	Mech	Insp

(15) **Task 21-31-01-7200:** Pressurization System Tubing Leak Functional Check (FL-1201, FL-1234 and After; FM-98 and After with 6.5 PSI Pressurization System)

**Zone:** 280

Task Notes	Mech	Insp

(16) **Task 21-31-00-7201:** Outflow Valve Functional Check (FL-1201, FL-1234 and After; FM-98 and After with 7.0 PSI Pressurization System)

**Zone:** 280

Task Notes	Mech	Insp

(17) **Task 21-31-01-7201:** Outflow Valve Functional Test (FL-1201, FL-1234 and After; FM-98 and After with 6.5 PSI Pressurization System)

**Zone:** 280

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Task Notes	Mech	Insp

(18) **Task 25-20-01-2100:** Passenger Seat Belt and Shoulder Harness General Visual Inspection  
**Zone:** 261, 262

Task Notes	Mech	Insp

(19) **Task 25-20-01-2101:** Passenger Seat Tracks General Visual Inspection  
**Zone:** 261, 262, 281, 282

Task Notes	Mech	Insp

(20) **Task 25-20-01-7100:** Passenger Seats Operational Check  
**Zone:** 261, 262, 281, 282

Task Notes	Mech	Insp

(21) **Task 25-20-01-7101:** Passenger Seat Belt and Shoulder Harness Operational Check  
**Zone:** 261, 262, 281, 282

Task Notes	Mech	Insp

(22) **Task 35-20-05-7100:** Oxygen System Masks Operational Check  
**Zone:** 261, 262, 281, 282

Task Notes	Mech	Insp

(23) **Task 38-30-01-2100:** Toilet General Visual Inspection  
**Zone:** 282

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Task Notes	Mech	Insp

(24) **Task 52-10-01-2200:** Cabin Entrance Door Detailed Inspection (FL-954, FL-1010, FL-1031 and On)

**Zone:** 830

Task Notes	Mech	Insp

(25) **Task 52-30-00-2200:** Cabin Cargo Door and Cabin Entrance Door (FM) Detailed Inspection (FM-66 and On)

**Zone:** 830

Task Notes	Mech	Insp

(26) **Task 53-00-00-2105:** Bulkheads General Visual Inspection

**Zone:** 280

Task Notes	Mech	Insp

(27) **Task 32-30-01-2101:** Landing Gear Hydraulic Lines General Visual Inspection

**Zone:** 151, 152, 153, 161, 162, 163, 171, 172, 261, 262, 281, 282

Task Notes	Mech	Insp

(28) **Task 27-00-00-2109:** Flap Motor and Drives General Visual Inspection

**Zone:** 163

Task Notes	Mech	Insp

(29) **Task 27-00-00-2107:** Aileron Quadrant Regulator General Visual Inspection

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**Zone:** 161

Task Notes	Mech	Insp

(30) **Task** 53-00-00-2106: Belly Drain Valves General Visual Inspection

**Zone:** 151, 152, 153, 161, 162, 163, 171, 172

Task Notes	Mech	Insp

(31) **Task** 56-00-00-2200: Crew Compartment/Cabin/Baggage Acrylic Window Attach Frames Detailed Inspection

**Zone:** 271, 272, 281, 282, 821, 822

Task Notes	Mech	Insp

(32) **Task** 30-10-00-2100: Pneumatic Pressure Regulator, Vacuum Ejector and Deicer General Visual Inspection

**Zone:** 141, 142, 151, 161, 162, 163

Task Notes	Mech	Insp

(33) **Task** 30-40-13-2100: Window Defog System General Visual Inspection

**Zone:** 163

Task Notes	Mech	Insp

(34) **Task** 27-00-00-2104: Control Cable Seals (Cabin) General Visual Inspection

**Zone:** 161, 162

Task Notes	Mech	Insp

(35) **Task** 22-10-00-2100: Autopilot Components General Visual Inspection



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**Zone:** 151, 152, 153, 161, 162, 163, 171, 172

Task Notes	Mech	Insp

(36) **Task** 38-30-00-2101: Relief Tube (If Installed- Cabin) General Visual Inspection

**Zone:** 151, 152, 153, 161, 162, 163, 171, 172

Task Notes	Mech	Insp

(37) **Task** 23-00-00-2100: Antennas General Visual Inspection

**Zone:** 131, 132, 141, 142, 143, 151, 152, 153, 161, 162, 163, 171, 172, 271, 272

Task Notes	Mech	Insp

(38) **Task** 26-21-00-2101: Portable Fire Extinguisher (Cabin) General Visual Inspection

**Zone:** 281

Task Notes	Mech	Insp

(39) **Task** 52-20-01-2200: Cabin Door and Emergency Exits Detailed Inspection

**Zone:** 821, 822, 830

Task Notes	Mech	Insp

(40) **Task** 52-20-01-2201: Emergency Exits Detailed Inspection

**Zone:** 821, 822

Task Notes	Mech	Insp

(41) **Task** 22-10-07-2200: Autopilot (Aileron) Servo and Cable Detailed Inspection

**Zone:** 163

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Task Notes	Mech	Insp

(42) **Task 35-00-00-7201:** Oxygen System Manual Operation Functional Check  
**Zone:** 282

Task Notes	Mech	Insp

D. Rear Fuselage and Empennage Inspection Tasks

(1) **Task 52-40-00-2102:** Rear Fuselage and Empennage Access Doors General Visual Inspection  
**Zone:** 311, 312, 320, 330, 340, 350

Task Notes	Mech	Insp

(2) **Task 53-10-01-2100:** Aft Fuselage Moisture Drainage System General Visual Inspection  
**Zone:** 170

Task Notes	Mech	Insp

(3) **Task 33-40-00-2101:** Navigation Light and Upper Beacon Light General Visual Inspection  
**Zone:** 300, 550, 650

Task Notes	Mech	Insp

(4) **Task 55-40-03-2200:** Rudder and Trim Tab Drain Holes Detailed Inspection  
**Zone:** 340, 360

Task Notes	Mech	Insp

(5) **Task 53-00-00-2114:** Rear Fuselage and Empennage General Visual Inspection  
**Zone:** 311, 312, 320, 330, 340, 350

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Task Notes	Mech	Insp

- (6) **Task 21-30-00-2102:** Cabin Pressurization Overboard Dump System General Visual Inspection  
**Zone:** 300, 310

Task Notes	Mech	Insp

- (7) **Task 53-00-00-2112:** Electrical Wiring and Equipment (Rear Fuselage and Empennage) General Visual Inspection  
**Zone:** 131, 132, 141, 142, 143, 151, 152, 153, 161, 162, 163, 171, 172

Task Notes	Mech	Insp

- (8) **Task 53-00-00-2107:** Avionics and Autopilot Equipment and Racks (Rear Fuselage and Empennage) General Visual Inspection  
**Zone:** 300, 310, 311, 312

Task Notes	Mech	Insp

- (9) **Task 55-30-01-2101:** Vertical Stabilizer General Visual Inspection  
**Zone:** 330

Task Notes	Mech	Insp

- (10) **Task 27-00-00-2103:** Flight Control Components, Cables, and Pulleys (Rear Fuselage and Empennage) General Visual Inspection  
**Zone:** 100, 300

Task Notes	Mech	Insp

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(11) **Task 27-00-00-2105:** Control Cable Seals (Rear Fuselage and Empennage) General Visual Inspection

**Zone:** 161, 162

Task Notes	Mech	Insp

(12) **Task 22-10-11-2200:** Autopilot (Rudder) Servo and Cable Detailed Inspection

**Zone:** 331, 351, 352

Task Notes	Mech	Insp

(13) **Task 22-10-15-2200:** Autopilot (Elevator) Servo and Cable Detailed Inspection

**Zone:** 331, 351, 352

Task Notes	Mech	Insp

(14) **Task 22-10-19-2200:** Autopilot (Elevator Trim Tab) Servo and Cable Detailed Inspection

**Zone:** 331, 351, 352

Task Notes	Mech	Insp

(15) **Task 53-00-00-2108:** Plumbing (Rear Fuselage and Empennage) General Visual Inspection

**Zone:** 300, 310

Task Notes	Mech	Insp

E. Wing Section Inspection Tasks

(1) **Task 52-40-00-2103:** Wing Access Doors General Visual Inspection

**Zone:** 500, 600

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Task Notes	Mech	Insp

- (2) **Task 28-20-00-2104:** Fuel Probes General Visual Inspection  
**Zone:** 521, 621

Task Notes	Mech	Insp

- (3) **Task 57-00-00-2103:** Wing Attach Fitting Drain Holes General Visual Inspection  
**Zone:** 513, 613

Task Notes	Mech	Insp

- (4) **Task 33-40-00-2103:** Lights (Wing) General Visual Inspection  
**Zone:** 330, 340, 550, 650

Task Notes	Mech	Insp

- (5) **Task 28-20-00-2103:** Fuel Tanks and Vents General Visual Inspection  
**Zone:** 500, 600

Task Notes	Mech	Insp

- (6) **Task 57-00-00-2102:** Static Ground Receptacles General Visual Inspection  
**Zone:** 300, 500, 600

Task Notes	Mech	Insp

- (7) **Task 28-20-00-2105:** Integral Fuel Tank General Visual Inspection  
**Zone:** 532, 542, 632, 642

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Task Notes	Mech	Insp

(8) **Task 30-10-01-7100:** Deicer Boots Operational Check  
**Zone:** 511, 521, 611, 621

Task Notes	Mech	Insp

(9) **Task 27-00-00-2102:** Flight Control Components, Cables, and Pulleys (Wing) General Visual Inspection  
**Zone:** 532, 542, 632, 642

Task Notes	Mech	Insp

(10) **Task 27-00-00-2108:** Flaps and Actuators General Visual Inspection  
**Zone:** 513, 532, 533, 613, 632, 633

Task Notes	Mech	Insp

(11) **Task 27-00-00-2114:** Flap Tracks General Visual Inspection  
**Zone:** 513, 533, 613, 633

Task Notes	Mech	Insp

(12) **Task 27-50-11-7200:** Flap Safety Mechanism Functional Check  
**Zone:** 513, 532, 533, 613, 632, 633

Task Notes	Mech	Insp

(13) **Task 28-20-00-2100:** Fuel Pumps General Visual Inspection  
**Zone:** 512, 612

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Task Notes	Mech	Insp

(14) **Task 26-20-05-2100:** Engine Fire Extinguisher General Visual Inspection  
**Zone:** 521, 522, 621, 622, 730, 740

Task Notes	Mech	Insp

(15) **Task 26-20-05-7200:** Fire Extinguisher Activation Functional Check  
**Zone:** 521, 522, 621, 622, 730, 740

Task Notes	Mech	Insp

(16) **Task 32-30-00-2101:** Landing Gear Power Pack and Motor General Visual Inspection  
**Zone:** 511

Task Notes	Mech	Insp

(17) **Task 32-30-00-2103:** Bleed Air Pressure Overboard Relief Orifice Screen General Visual Inspection  
**Zone:** 511

Task Notes	Mech	Insp

(18) **Task 24-30-01-2100:** Battery General Visual Inspection  
**Zone:** 611

Task Notes	Mech	Insp

(19) **Task 28-21-00-2200:** Extended Range Fuel Tank (Model 350ER/CER) Detailed Inspection  
**Zone:** 410, 420, 521, 621

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Task Notes	Mech	Insp

F. Landing Gear Inspection Tasks

- (1) **Task 32-20-03-2103:** Electrical Wiring and Equipment (Nose Landing Gear) General Visual Inspection

**Zone:** 710

Task Notes	Mech	Insp

- (2) **Task 32-20-03-2102:** Nose Wheel General Visual Inspection

**Zone:** 121, 122, 710

Task Notes	Mech	Insp

- (3) **Task 32-20-03-2201:** Nose Gear Tire Detailed Inspection

**Zone:** 710

Task Notes	Mech	Insp

- (4) **Task 32-20-11-2100:** Shimmy Damper General Visual Inspection

**Zone:** 710

Task Notes	Mech	Insp

- (5) **Task 32-20-09-2100:** Nose Gear Drag Brace General Visual Inspection

**Zone:** 710

Task Notes	Mech	Insp

- (6) **Task 32-20-03-2101:** Nose Gear Steering Stop General Visual Inspection



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**Zone: 710**

Task Notes	Mech	Insp

(7) **Task 32-20-03-2200:** Nose Gear Lower Drag Leg Detailed Inspection

**Zone: 710**

Task Notes	Mech	Insp

(8) **Task 32-30-11-2100:** Nose Landing Gear Actuator General Visual Inspection

**Zone: 710**

Task Notes	Mech	Insp

(9) **Task 32-20-03-2104:** Nose Landing Gear Area General Visual Inspection

**Zone: 710**

Task Notes	Mech	Insp

(10) **Task 32-20-03-2100:** Steering Linkage General Visual Inspection

**Zone: 710**

Task Notes	Mech	Insp

(11) **Task 32-10-03-2100:** Main Wheels General Visual Inspection

**Zone: 730, 740**

Task Notes	Mech	Insp

(12) **Task 32-40-01-2100:** Brakes General Visual Inspection

**Zone: 710, 730, 740**

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Task Notes	Mech	Insp

(13) **Task 32-43-00-2100:** Brake Deice System (If Installed) General Visual Inspection  
**Zone:** 710, 730, 740

Task Notes	Mech	Insp

(14) **Task 32-10-03-2200:** Main Gear Tire Detailed Inspection  
**Zone:** 730, 740

Task Notes	Mech	Insp

(15) **Task 32-10-03-2211:** Landing Gear Struts Detailed Inspection  
**Zone:** 710, 730, 740

Task Notes	Mech	Insp

(16) **Task 32-10-03-2101:** Electrical Wiring and Equipment (Main Landing Gear) General Visual Inspection  
**Zone:** 730, 740

Task Notes	Mech	Insp

(17) **Task 32-30-05-2100:** Main Landing Gear Actuator General Visual Inspection  
**Zone:** 730, 740

Task Notes	Mech	Insp

(18) **Task 57-00-00-2200:** Main Lower Spar Cap Bumper Block Detailed Inspection (Extended Range and Heavy Weight Airplanes Only)

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**Zone:** 730, 740

Task Notes	Mech	Insp

(19) **Task 32-10-03-2102:** Main Landing Gear Drag Brace General Visual Inspection

**Zone:** 730, 740

Task Notes	Mech	Insp

(20) **Task 32-10-03-2103:** Main Landing Gear Area General Visual Inspection

**Zone:** 730, 740

Task Notes	Mech	Insp

(21) **Task 32-30-00-2102:** Emergency Extension Hand Pump Suction Line Filter General Visual Inspection

**Zone:** 131

Task Notes	Mech	Insp

G. Engine and Cowling Area Inspection Tasks

(1) **Task 30-60-01-2100:** Propeller Deicer Boots General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(2) **Task 61-10-01-2100:** Propeller General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

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- (3) **Task 61-10-01-2200:** Propeller Detailed Inspection  
**Zone:** 410, 420

Task Notes	Mech	Insp

- (4) **Task 61-10-01-2104:** Beta Blocks General Visual Inspection  
**Zone:** 410, 420

Task Notes	Mech	Insp

- (5) **Task 71-00-01-2200:** Engine Periodic Inspections  
**Zone:** 410, 420

Task Notes	Mech	Insp

- (6) **Task 28-20-00-2200:** Airframe Fuel Filters and Screens Detailed Inspection  
**Zone:** 521, 621

Task Notes	Mech	Insp

- (7) **Task 79-00-00-2101:** Drain Plugs General Visual Inspection  
**Zone:** 410, 420

Task Notes	Mech	Insp

- (8) **Task 71-10-00-2100:** Cowling General Visual Inspection  
**Zone:** 410, 420

Task Notes	Mech	Insp

- (9) **Task 79-00-00-2100:** Oil Cooler General Visual Inspection

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**Zone:** 410, 420

Task Notes	Mech	Insp

(10) **Task** 71-00-01-2100: Fireseals General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(11) **Task** 78-00-00-2100: Exhaust System General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(12) **Task** 76-00-00-2101: Engine and Propeller Controls General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(13) **Task** 76-00-00-2100: Control Cable Boots General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(14) **Task** 24-30-03-2100: Starter-Generator Brushes General Visual Inspection

**Zone:** 410, 420

Task Notes	Mech	Insp

(15) **Task** 79-30-05-2200: Magnetic Chip Detector Detailed Inspection

**Zone:** 410, 420

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Task Notes	Mech	Insp

(16) **Task 21-51-01-2107:** Air Conditioning Compressor General Visual Inspection  
**Zone:** 420

Task Notes	Mech	Insp

(17) **Task 21-51-01-2103:** Refrigerant Lines and Service Valve (Engine Cowling) General Visual Inspection  
**Zone:** 120

Task Notes	Mech	Insp

(18) **Task 71-70-01-1600:** Fuel Purge Tank Cleaning  
**Zone:** 410, 420

Task Notes	Mech	Insp

(19) **Task 71-70-03-1600:** Fuel Purge System Air Filter Cleaning  
**Zone:** 410, 420

Task Notes	Mech	Insp

(20) **Task 71-70-00-1600:** Fuel Purge System Check Valve Cleaning  
**Zone:** 410, 420

Task Notes	Mech	Insp

(21) **Task 71-70-00-7200:** Fuel Purge System Flow Divider/Purge Valve Functional Check  
**Zone:** 410, 420

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Task Notes	Mech	Insp

H. Landing Gear Retraction Inspection Tasks

- (1) **Task 32-30-00-7201:** Retract Mechanism Functional Check

**Zone:** 710, 730, 740

Task Notes	Mech	Insp

- (2) **Task 32-10-03-2210:** Main Landing Gear Doors and Linkage Detailed Inspection

**Zone:** 730, 740

Task Notes	Mech	Insp

- (3) **Task 32-20-03-2211:** Nose Landing Gear Doors and Linkage Detailed Inspection

**Zone:** 710

Task Notes	Mech	Insp

- (4) **Task 32-30-00-7101:** Position Indicators and Warning Horn Operational Check

**Zone:** 231, 232

Task Notes	Mech	Insp

- (5) **Task 32-30-03-2200:** Downlock Mechanism Detailed Inspection

**Zone:** 730, 740

Task Notes	Mech	Insp

- (6) **Task 32-10-03-7100:** Main Landing Gear Safety Switch Operational Check

**Zone:** 710, 730, 740

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Task Notes	Mech	Insp

- (7) **Task 32-30-00-7102:** Actuators Operational Check  
**Zone:** 710, 730, 740

Task Notes	Mech	Insp

- (8) **Task 32-30-00-7100:** Emergency Extension Operational Check  
**Zone:** 700

Task Notes	Mech	Insp

- (9) **Task 32-30-00-7200:** Landing Gear Power Pack Motor 20 Second Time Delay Relay Functional Check  
**Zone:** 512, 612

Task Notes	Mech	Insp

I. Operational Inspection Tasks

- (1) **Task 30-20-01-7100:** Engine Induction System Operational Check  
**Zone:** 240, 410, 420

Task Notes	Mech	Insp

- (2) **Task 23-00-00-7100:** Communications System Operational Check  
**Zone:** 231, 232

Task Notes	Mech	Insp

- (3) **Task 28-20-00-7100:** Fuel Tank Vents Operational Check



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**Zone:** 512, 612

Task Notes	Mech	Insp

(4) **Task 76-10-15-7100:** Ground Run Torque Operational Check

**Zone:** 410, 420

Task Notes	Mech	Insp

(5) **Task 27-31-01-7100:** Stall Warning Heat Operational Check

**Zone:** 522

Task Notes	Mech	Insp

(6) **Task 22-10-25-7100:** Autopilot Disconnect Aural Warning Operational Check (FL-954, FL-1010, FL-1031 thru FL-1139; FM-1 thru FM-75)

**Zone:** 248

Task Notes	Mech	Insp

(7) **Task 22-10-25-7101:** Autopilot Disconnect Aural Warning Operational Check (FL-1140 and On; FM-76 and On)

**Zone:** 248

Task Notes	Mech	Insp

(8) **Task 22-10-27-7100:** Stall Warning Autopilot Disconnect Operational Check

**Zone:** 248

Task Notes	Mech	Insp

(9) **Task 28-21-00-7200:** Fuel Transfer Functional Check (Model 350ER/CER)

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**Zone:** 521, 522, 621, 622

Task Notes	Mech	Insp

**4. Post-Inspection Tasks**

A. Complete the following Post-Inspection Tasks.

- (1) **Task 25-60-01-7100:** Emergency Locator Transmitter (ARTEX C406-N) Operational Check

**Zone:** 311

Task Notes	Mech	Insp

- (2) **Task 35-00-00-2101:** Oxygen System Pressure General Visual Inspection

**Zone:** 282

Task Notes	Mech	Insp

- (3) **Task 25-60-09-2101:** Emergency and Survival Equipment (If Installed) General Visual Inspection

**Zone:** 261, 262, 271, 272, 282, 283

Task Notes	Mech	Insp

- (4) **Task 21-51-01-6400:** Compressor Quill Shaft Lubrication

**Zone:** 410, 420

Task Notes	Mech	Insp

- (5) **Task 27-00-00-6400:** Flight Controls (200 Hour) Lubrication

**Zone:** 330, 340, 350, 500, 600

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Task Notes	Mech	Insp

- (6) **Task 27-00-00-6401:** Aileron Controls System (400 Hour) Lubrication  
**Zone:** 542, 642

Task Notes	Mech	Insp

- (7) **Task 27-00-00-6402:** Control Column (800 Hour) Lubrication  
**Zone:** 143

Task Notes	Mech	Insp

- (8) **Task 27-10-15-6400:** Aileron Trim Tab Actuator Lubrication  
**Zone:** 542, 642

Task Notes	Mech	Insp

- (9) **Task 27-20-09-6400:** Rudder Control System (200 Hour) Lubrication  
**Zone:** 330, 340

Task Notes	Mech	Insp

- (10) **Task 27-20-09-6401:** Rudder Control System (400 Hour) Lubrication  
**Zone:** 330, 340

Task Notes	Mech	Insp

- (11) **Task 27-20-11-6400:** Rudder Trim Tab Actuator Lubrication  
**Zone:** 331

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Task Notes	Mech	Insp

(12) **Task 27-30-07-6400:** Elevator Trim Tab Actuator Lubrication

**Zone:** 351

Task Notes	Mech	Insp

(13) **Task 32-10-03-6400:** Landing Gear (200) Lubrication

**Zone:** 710, 730, 740

Task Notes	Mech	Insp

(14) **Task 32-10-03-6401:** Main Landing Gear Door Linkage Lubrication

**Zone:** 730, 740, 800

Task Notes	Mech	Insp

(15) **Task 32-10-03-6402:** Landing Gear (800 Hour) Lubrication

**Zone:** 710, 730, 740, 800

Task Notes	Mech	Insp

(16) **Task 52-10-01-6400:** Cabin Door Lubrication

**Zone:** 830

Task Notes	Mech	Insp

(17) **Task 52-20-01-6400:** Emergency Exit Door (800 Hour) Lubrication

**Zone:** 821, 822

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Task Notes	Mech	Insp

(18) **Task 52-30-00-6400:** Cargo Door Lubrication

**Zone:** 830

Task Notes	Mech	Insp

(19) **Task 61-10-01-6400:** Propeller Lubrication

**Zone:** 410, 420

Task Notes	Mech	Insp

(20) **Task 76-00-00-6400:** Engine Controls Lubrication

**Zone:** 410, 420

Task Notes	Mech	Insp

- B. If no other Inspection Details are to be completed at this time, complete the King Air Post-Inspection Checks specified in Inspection Task 5-15-00-8401.
- C. I certify that the Detail 6 Inspection was performed in accordance with the Super King Air Model B300/300C Fusion Inspection program and that the airplane is approved for return to service.

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<b>Owner:</b>		<b>Total Time :</b>	<b>Total Cycles :</b>
<b>W/O Number:</b>		<b>TSOH:</b>	<b>Cycles SOH :</b>
<b>Date In:</b>	<b>Date Out:</b>	<b>TSHSI:</b>	<b>Cycles SHSI :</b>
<b>Serial No:</b>	<b>Reg. No :</b>	<b>R Eng. Gas Gen. S/N:</b>	
<b>Last Inspection:</b>	<b>Phase:</b>	<b>R Eng. Power Module S/N:</b>	
<b>Last Inspection Date:</b>		<b>Total Time :</b>	<b>Total Cycles :</b>
<b>Last Inspection Hours:</b>		<b>TSOH :</b>	<b>Cycles SOH :</b>
<b>Hourmeter:</b>	<b>Total Time :</b>	<b>T SHSI :</b>	<b>Cycles SHSI :</b>
<b>Total Cycles:</b>		<b>L Prop S/N :</b>	
<b>Researched By :</b>		<b>L Prop Total Time:</b>	<b>TSOH :</b>
<b>Inspection Being Conducted Detail:</b>		<b>R Prop S/N :</b>	
<b>L Eng. Gas Gen. S/N:</b>		<b>R Prop Total Time :</b>	<b>TSOH :</b>
<b>L Eng. Power Module S/N:</b>			

Airplane Information  
 Figure 1 (Sheet 1)

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<b>DATE:</b>
<b>MECHANIC:</b>
<b>CREW CHIEF:</b>
<b>QUALITY CONTROL INSPECTOR:</b>





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**INSPECTION DETAIL 8**

**1. Description**

- A. Scheduled Inspection Program Detail 8 gives a list of Inspection Tasks to be completed every 12 months.
- B. A brief inspection description and an inspection task number are given for each inspection. The airplane effectivity to which the inspection applies as well as the general location (Zone) where the inspection is to be done are also listed. The Inspection Task Number is linked to more detailed information in the manual about each inspection requirement.
- C. The following are provided for technician/inspector use during the inspection:
  - A table for each Inspection Task to give space for mechanic's and inspector's stamps or initials as well as any notes or remarks if needed.
  - A signature block at the end of the document to certify final completion of the Inspection Detail if required.
  - Figure 1, Airplane Information to record aircraft data such as flight hours, inspection dates and serial numbers if required.
- D. If it is necessary to replace/adjust a component or system during a task, complete any required return to service procedures for that system before the remaining steps of the task are completed.

**2. Pre-Inspection Checks**

- A. There are no Pre-Inspection Requirements for this Inspection Detail.

**3. Scheduled Inspection Program Detail 8 Inspections**

- A. ATA 21 - Air Conditioning/Pressurization Inspection Tasks
  - (1) **Task 21-52-01-2100:** Condenser Blower General Visual Inspection (FL-1300, FL-1307 and After; FM-110 and After)

**Zone:** 122

Task Notes	Mech	Insp

- (2) **Task 21-52-01-2101:** Receiver/Dryer General Visual Inspection (FL-1300, FL-1307 and After; FM-110 and After)

**Zone:** 121

Task Notes	Mech	Insp

- (3) **Task 21-52-01-2102:** Cockpit Evaporator General Visual Inspection (FL-1300, FL-1307 and After; FM-110 and After)

**Zone:** 122

Task Notes	Mech	Insp

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- (4) **Task 21-52-01-2103:** Cabin Evaporator General Visual Inspection (FL-1300, FL-1307 and After; FM-110 and After)

**Zone:** 163

Task Notes	Mech	Insp

- (5) **Task 21-52-11-1600:** Condenser Assembly Coil Cleaning (FL-1300, FL-1307 and After; FM-110 and After)

**Zone:** 122

Task Notes	Mech	Insp

- (6) **Task 21-52-11-2100:** Condenser Coil General Visual Inspection (FL-1300, FL-1307 and After; FM-110 and After)

**Zone:** 122

Task Notes	Mech	Insp

- (7) **Task 21-31-00-7202:** Pressurization CAS Messages Functional Test (FL-1201, FL-1234 and After; FM-98 and After with 7.0 PSI Pressurization System)

**NOTE:** Only the Cabin Altitude High CAS Message Test procedure in Task 21-31-00-7202 needs to be performed at the Inspection Detail 8 interval.

**Zone:** 280

Task Notes	Mech	Insp

- (8) **Task 21-30-11-7200:** Cabin Altitude High Warning Pressure Switch Functional Check (FL-1010, FL-1031 thru FL-1200, FL-1202 thru FL-1233; FM-66 thru FM-97)

**Zone:** 253

Task Notes	Mech	Insp

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- (9) **Task 21-31-01-7202:** Pressurization CAS Messages Functional Test (FL-1201, FL-1234 and After; FM-98 and After with 6.5 PSI Pressurization System)

**NOTE:** Only the Cabin Altitude High CAS Message Test procedure in Task 21-31-01-7202 needs to be performed at the Inspection Detail 8 interval.

**Zone:** 280

Task Notes	Mech	Insp

B. ATA 22 - Auto Flight Inspection Tasks

- (1) **Task 22-30-00-7100:** Power Control Lever Movement Operational Check (FL-1300, FL-1307 and After; FM-110 and After)

**Zone:** 231, 232

Task Notes	Mech	Insp

- (2) **Task 22-30-00-7101:** Auto Throttle Friction Operational Check (FL-1300, FL-1307 and After; FM-110 and After)

**Zone:** 231, 232

Task Notes	Mech	Insp

- (3) **Task 22-30-00-7102:** Auto Throttle System Override Operational Check (FL-1300, FL-1307 and After; FM-110 and After)

**Zone:** 231, 232

Task Notes	Mech	Insp

C. ATA 23 - Communications Inspection Tasks

- (1) **Task 23-60-00-2200:** Static Dischargers (Wicks) Detailed Inspection

**Zone:** 340, 360, 543, 550, 643, 650

Task Notes	Mech	Insp

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D. ATA 25 - Equipment/Furnishings Inspection Tasks

- (1) **Task 25-60-01-2200:** Emergency Locator Transmitter (ARTEX C406-N) Battery Detailed Inspection

**Zone:** 310

Task Notes	Mech	Insp

E. ATA 27- Flight Controls Inspection Tasks

- (1) **Task 27-70-01-2100:** Control Lock General Visual Inspection

**Zone:** 254, 255

Task Notes	Mech	Insp

F. ATA 31 - Indicating/Recording Systems Inspection Tasks

- (1) **Task 31-10-00-2102:** Pilot's Fuel Control Panel and Lower Panel, Copilot's Circuit Breaker Panel and Other Wiring Circuitry Below the Storm Windows General Visual Inspection

**Zone:** 246, 247

Task Notes	Mech	Insp

- (2) **Task 31-30-00-7100:** Digital Flight Data Recorder Operational Check

**Zone:** 240, 310

Task Notes	Mech	Insp

- (3) **Task 31-30-00-7200:** Aileron Control Position Transducer Functional Check

**Zone:** 130, 254, 255

Task Notes	Mech	Insp

- (4) **Task 31-30-00-7201:** Left and Right Aileron Surface Position Transducer Functional Check

**Zone:** 130, 240

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Task Notes	Mech	Insp

(5) **Task 31-30-00-7202:** Aileron Trim Control Position Transducer Functional Check  
**Zone:** 130, 340

Task Notes	Mech	Insp

(6) **Task 31-30-00-7203:** Aileron Trim Surface Position Transducer Functional Check  
**Zone:** 240, 532

Task Notes	Mech	Insp

(7) **Task 31-30-00-7204:** Elevator Control Position Transducer Functional Check  
**Zone:** 240

Task Notes	Mech	Insp

(8) **Task 31-30-00-7205:** Elevator Surface Position Transducer Functional Check  
**Zone:** 240, 360

Task Notes	Mech	Insp

(9) **Task 31-30-00-7206:** Elevator Trim Control Position Transducer Functional Check  
**Zone:** 140, 240, 360

Task Notes	Mech	Insp

(10) **Task 31-30-00-7207:** Elevator Trim Surface Position Transducer Functional Check  
**Zone:** 240, 330

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Task Notes	Mech	Insp

(11) **Task 31-30-00-7208:** Rudder Control Position Transducer Functional Check  
**Zone:** 130, 240, 340

Task Notes	Mech	Insp

(12) **Task 31-30-00-7209:** Rudder Surface Position Transducer Functional Check  
**Zone:** 240, 310

Task Notes	Mech	Insp

(13) **Task 31-30-00-7210:** Rudder Trim Control Position Transducer Functional Check  
**Zone:** 140, 340

Task Notes	Mech	Insp

(14) **Task 31-30-00-7211:** Rudder Trim Surface Position Transducer Functional Check  
**Zone:** 240, 310

Task Notes	Mech	Insp

(15) **Task 31-30-00-7212:** Left and Right Power Lever Position Transducer Functional Check  
**Zone:** 130, 240

Task Notes	Mech	Insp

(16) **Task 31-30-00-7213:** Left and Right Prop Lever Position Transducer Functional Check  
**Zone:** 240

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Task Notes	Mech	Insp

(17) **Task 31-30-00-7214:** Rudder Pedal Input Forces Transducer Functional Check  
**Zone:** 130, 240

Task Notes	Mech	Insp

(18) **Task 31-30-00-7215:** Control Wheel/Column Forces Transducer Functional Check  
**Zone:** 240

Task Notes	Mech	Insp

(19) **Task 31-30-00-7216:** Brake Hydraulic Pressure Transducer Functional Check  
**Zone:** 150, 240

Task Notes	Mech	Insp

(20) **Task 31-30-00-7217:** Brake Pedal Switch Functional Check  
**Zone:** 240

Task Notes	Mech	Insp

(21) **Task 31-30-00-7218:** Flap Symmetry Functional Check  
**Zone:** 240, 310

Task Notes	Mech	Insp

(22) **Task 31-30-00-7219:** Prop Reverse Switch Functional Check  
**Zone:** 240, 243

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Task Notes	Mech	Insp

(23) **Task 31-30-00-7220:** PFD1 and PFD2 429 Buses Functional Check  
**Zone:** 240, 310

Task Notes	Mech	Insp

(24) **Task 31-30-00-7221:** Flap Surface Position Sensor Functional Check  
**Zone:** 240, 512, 612

Task Notes	Mech	Insp

(25) **Task 31-30-00-7222:** Accelerometer Functional Check  
**Zone:** 150, 240

Task Notes	Mech	Insp

G. ATA 35 - Oxygen Inspection Tasks

(1) **Task 35-00-00-7200:** Oxygen System Barometric Pressure Switch Functional Check  
**Zone:** 262

Task Notes	Mech	Insp

(2) **Task 35-10-01-2200:** Crew Masks Detailed Inspection  
**Zone:** 240

Task Notes	Mech	Insp

(3) **Task 35-20-05-7101:** Passenger Masks Operational Check  
**Zone:** 240



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Task Notes	Mech	Insp

H. ATA 56 - Windows Inspection Tasks

- (1) **Task** 56-21-00-7200: Electronic Window Emergency Power Supply and Window Shade Functional Check

**Zone:** 271, 272

Task Notes	Mech	Insp

**4. Post-Inspection Tasks**

- A. I certify that the Detail 8 Inspection was performed in accordance with the Super King Air Model B300/300C Fusion Inspection program and that the airplane is approved for return to service.

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<b>Owner:</b>		<b>Total Time :</b>	<b>Total Cycles :</b>
<b>W/O Number:</b>		<b>TSOH:</b>	<b>Cycles SOH :</b>
<b>Date In:</b>	<b>Date Out:</b>	<b>TSHSI:</b>	<b>Cycles SHSI :</b>
<b>Serial No:</b>	<b>Reg. No :</b>	<b>R Eng. Gas Gen. S/N:</b>	
<b>Last Inspection:</b>	<b>Phase:</b>	<b>R Eng. Power Module S/N:</b>	
<b>Last Inspection Date:</b>		<b>Total Time :</b>	<b>Total Cycles :</b>
<b>Last Inspection Hours:</b>		<b>TSOH :</b>	<b>Cycles SOH :</b>
<b>Hourmeter:</b>	<b>Total Time :</b>	<b>T SHSI :</b>	<b>Cycles SHSI :</b>
<b>Total Cycles:</b>		<b>L Prop S/N :</b>	
<b>Researched By :</b>		<b>L Prop Total Time:</b>	<b>TSOH :</b>
<b>Inspection Being Conducted Detail:</b>		<b>R Prop S/N :</b>	
<b>L Eng. Gas Gen. S/N:</b>		<b>R Prop Total Time :</b>	<b>TSOH :</b>
<b>L Eng. Power Module S/N:</b>			

Airplane Information  
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<b>DATE:</b>
<b>MECHANIC:</b>
<b>CREW CHIEF:</b>
<b>QUALITY CONTROL INSPECTOR:</b>



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**INSPECTION DETAIL 12**

**1. Description**

- A. Scheduled Inspection Program Detail 12 gives a list of Inspection Tasks to be completed every 24 months.
- B. A brief inspection description and an inspection task number are given for each inspection. The airplane effectivity to which the inspection applies as well as the general location (Zone) where the inspection is to be done are also listed. The Inspection Task Number is linked to more detailed information in the manual about each inspection requirement.
- C. The following are provided for technician/inspector use during the inspection:
  - A table for each Inspection Task to give space for mechanic's and inspector's stamps or initials as well as any notes or remarks if needed.
  - A signature block at the end of the document to certify final completion of the Inspection Detail if required.
  - Figure 1, Airplane Information to record aircraft data such as flight hours, inspection dates and serial numbers if required.
- D. If it is necessary to replace/adjust a component or system during a task, complete any required return to service procedures for that system before the remaining steps of the task are completed.

**2. Pre-Inspection Checks**

- A. There are no Pre-Inspection Requirements for this Inspection Detail.

**3. Scheduled Inspection Program Detail 12 Inspections**

- A. ATA 22- Auto Flight Systems Inspection Tasks.
  - (1) **Task 22-30-00-7100:** Power Control Lever Movement Operational Check  
**Zone:** 231, 232

Task Notes	Mech	Insp

- (2) **Task 22-30-00-7101:** Auto Throttle Friction Operational Check  
**Zone:** 231, 232

Task Notes	Mech	Insp

- (3) **Task 22-30-00-7102:** Auto Throttle System Override Operational Check  
**Zone:** 231, 232

Task Notes	Mech	Insp

- B. ATA 31 - Indicating/Recording Systems Inspection Tasks.
  - (1) **Task 31-30-00-7223:** Digital Flight Data Recorder Underwater Locator Beacon Functional Check

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**Zone:** 240, 310

Task Notes	Mech	Insp

C. ATA 34 - Navigation Inspection Tasks

- (1) **Task 34-10-07-7200:** Pitot and Static System Functional Check

**Zone:** 240, 310

Task Notes	Mech	Insp

- (2) **Task 34-10-07-2100:** Standby Display Unit (SDU) General Visual Inspection

**Zone:** 231, 232

Task Notes	Mech	Insp

- (3) **Task 34-10-07-2101:** Remote Standby Controller (RSC) General Visual Inspection

**Zone:** 231, 232

Task Notes	Mech	Insp

- (4) **Task 34-10-00-2200:** Air Data System and Transponder Detailed Inspection

**Zone:** 240, 310

Task Notes	Mech	Insp

- (5) **Task 34-10-09-2200:** Air Data System (RVSM Compliant Airplanes) Detailed Inspection

**Zone:** 310

Task Notes	Mech	Insp

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**4. Post-Inspection Tasks**

- A. I certify that the Detail 12 Inspection was performed in accordance with the Super King Air Model B300/300C Fusion Inspection program and that the airplane is approved for return to service.

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<b>Owner:</b>		<b>Total Time :</b>	<b>Total Cycles :</b>
<b>W/O Number:</b>		<b>TSOH:</b>	<b>Cycles SOH :</b>
<b>Date In:</b>	<b>Date Out:</b>	<b>TSHSI:</b>	<b>Cycles SHSI :</b>
<b>Serial No:</b>	<b>Reg. No :</b>	<b>R Eng. Gas Gen. S/N:</b>	
<b>Last Inspection:</b>	<b>Phase:</b>	<b>R Eng. Power Module S/N:</b>	
<b>Last Inspection Date:</b>		<b>Total Time :</b>	<b>Total Cycles :</b>
<b>Last Inspection Hours:</b>		<b>TSOH :</b>	<b>Cycles SOH :</b>
<b>Hourmeter:</b>	<b>Total Time :</b>	<b>T SHSI :</b>	<b>Cycles SHSI :</b>
<b>Total Cycles:</b>		<b>L Prop S/N :</b>	
<b>Researched By :</b>		<b>L Prop Total Time:</b>	<b>TSOH :</b>
<b>Inspection Being Conducted Detail:</b>		<b>R Prop S/N :</b>	
<b>L Eng. Gas Gen. S/N:</b>		<b>R Prop Total Time :</b>	<b>TSOH :</b>
<b>L Eng. Power Module S/N:</b>			

Airplane Information  
 Figure 1 (Sheet 1)



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<b>DATE:</b>
<b>MECHANIC:</b>
<b>CREW CHIEF:</b>
<b>QUALITY CONTROL INSPECTOR:</b>



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**GENERAL - GENERAL**

**1. Description**

The environmental system utilizes a vapor cycle air conditioning system to provide cooling. Engine bleed air is used to provide heat and pressurization. If additional heating is required while the airplane is on the ground, it is provided by electrical heating elements within the system. For control panel operation, refer to the airplane flight manual.

**A. Distribution**

Ducting underneath the floor, in the headliner, in the space between the headliner and the fuselage (through frame lightening holes) is used to distribute air to the cabin through sidewall outlets, adjustable overhead outlets, and a center aisle floor outlet. Air is distributed in the cockpit through ducts to the glareshield outlets, adjustable overhead outlets, and to the pilot and copilot's feet and floor outlets.

The air is forced through the ducts and plenums by electric blowers and pressure from the engine bleed air. The excess warm bleed air is gradually drawn overboard by the normal venting of the cabin outflow valves. Refer to Chapter 21-21-00, 001 for a more detailed explanation of the operation of this system.

**B. Heating**

Bleed air is used to heat and pressurize the cabin. Before bleed air from the engines enters the cabin distribution ducts, it passes through two electrical bleed air bypass valves (left and right) (airplane serials FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306 and FM-66 thru FM-109) or temperature modulating valves (FL-1300, FL-1307 and after, and FM-110 and after) which are controlled by an electronic controller. The bypass valves or temperature modulating valves determine whether bleed air will pass through, or bypass, the heat exchangers in the wings. If the environmental system requires heat, then the bypass valves or temperature modulating valves open to allow fully heated bleed air to enter the system. If less heat is required, the bypass valves or temperature modulating valves close and send the bleed air through the wing heat exchangers to reduce the temperature of the bleed air before it enters the cabin.

An electric heater located aft of the forward plenum provides additional heating when the airplane is on the ground. When electric heat is selected on the cockpit mode switch, electrically heated air is directed to the center aisle floor outlet. Refer to Chapter 21-41-00, 001 for a more detailed explanation of the operation of this system.

**C. Cooling**

Cooling is provided by a vapor cycle air conditioning system using R134a refrigerant. A forward evaporator located under the avionics bay on the right side of the nose compartment, provides cooled air to the glareshield outlets and center aisle floor outlet. On airplane serials FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306 and FM-66 thru FM-109, two aft evaporators located under the center aisle provide cooled air to the cabin sidewall outlets and adjustable overhead outlets. On FL-1300, FL-1307 and after, and FM-110 and after, a single aft evaporator is located under the center aisle. The condenser, located in the nose, transfers the heat in the refrigerant to the outside air. On serials FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306 and FM-66 thru FM-109, the compressor is located on the left side of the right engine and provides refrigerant compression and circulation. On serials FL-1300, FL-1307 and after, and FM-110 and after, an electric motor driven compressor is located in the left side of the nose section under the lower avionics shelf. A system pressure switch and relief plugs on the compressor and receiver/dryer bottle, prevent system damage from over or under pressure operation. When air conditioning is selected, the mixing plenum directs the conditioned bleed air to the rear sidewall outlets. Refer to Chapter 21-51-00, 001 (airplane serials FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306 and FM-66 thru FM-109) or 21-52-00, 001 (airplane serials FL-1300, FL-1307 and after, and FM-110 and after) for a more detailed explanation of the operation of this system.

**D. Temperature Control**

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The cabin temperature controller manages the dual zone system, which allows independent control of the cabin and cockpit environments. Thermistors measure cockpit and cabin temperatures and are monitored by the controller. The controller manipulates the bleed air bypass valves in the wings, to pre-cool the bleed air through the heat exchangers, or bypass the heat exchangers and give full bleed air heat.

Cockpit and cabin temperatures are achieved by combining cockpit and cabin ambient air, cooled air and heated engine bleed air. An evaporator under the nose avionics compartment floor and dual evaporators under the cabin floor provide independent sources of cooled air for the two temperature zones.

The controller opens and closes various fuselage duct valves to maintain cockpit and cabin temperatures as selected on the copilot's environmental control sub panel. A multi-servo mixing plenum blends the air sources before the air is distributed through the duct outlets. The controller also automatically adjusts evaporator blower speeds, and controls the on/off cycles of the compressor clutch and condenser blower, which operate simultaneously.



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**ACOUSTIC MUFFLER - REMOVAL/INSTALLATION**  
(FL-1300, FL-1307 and After; FM-110 and After)

**1. Acoustic Muffler**

**A. Removal**

- (1) Perform the BATTERY POWER DISCONNECT procedure (Ref. 24-30-01, 201).
- (2) Perform the PASSENGER SEAT REMOVAL procedure for the forward passenger seats on the right side (Ref. 25-20-01, 401).
- (3) Perform the CARPET REMOVAL procedure at the locations where the passenger seats were removed (Ref. 25-20-39, 401).
- (4) Perform the FORWARD RIGHT CABIN PARTITION REMOVAL procedure (Ref. 25-20-07, 401).
- (5) Remove floorboard panels 152ATR and 152BTR (Ref. 06-50-00).
- (6) Remove insulation material from the ends of the bleed air tubes as necessary to get access to the clamps (3) that secure the sleeves (4) connecting the acoustic mufflers (1) and (2) to the bleed air tubes (Ref. Figure 401, Detail A).
- (7) For removal of the cockpit acoustic muffler (1), perform the steps that follow:
  - (a) Loosen the clamp (3) that connects the cockpit acoustic muffler (1) to the cockpit bleed air duct (5).
  - (b) Slide the cockpit bleed air duct (5) off of the forward flange of the cockpit acoustic muffler (1).
  - (c) Loosen the two clamps (3) that secure the sleeve (4) which connects the aft end of the cockpit acoustic muffler (1) to the interconnect ducts.
  - (d) Remove the cockpit acoustic muffler (1) from the airplane.
- (8) For removal of the cabin acoustic muffler (2), perform the steps that follow:
  - (a) Remove the P-clamp that secures the cabin bleed air duct to the adjacent structure.
  - (b) Loosen the two clamps (3) that secure the sleeve (4) which connects the cabin acoustic muffler (2) to the cabin bleed air duct (6).
  - (c) Slide the cabin bleed air duct (6) off of the forward flange of the cabin acoustic muffler (2).
  - (d) At the opposite end of the cabin acoustic muffler (2), loosen the two clamps (3) that secure the sleeve (4) which connects the cabin acoustic muffler (2) to the interconnect ducts.
  - (e) Remove the cabin acoustic muffler (2) from the airplane.

**B. Installation**

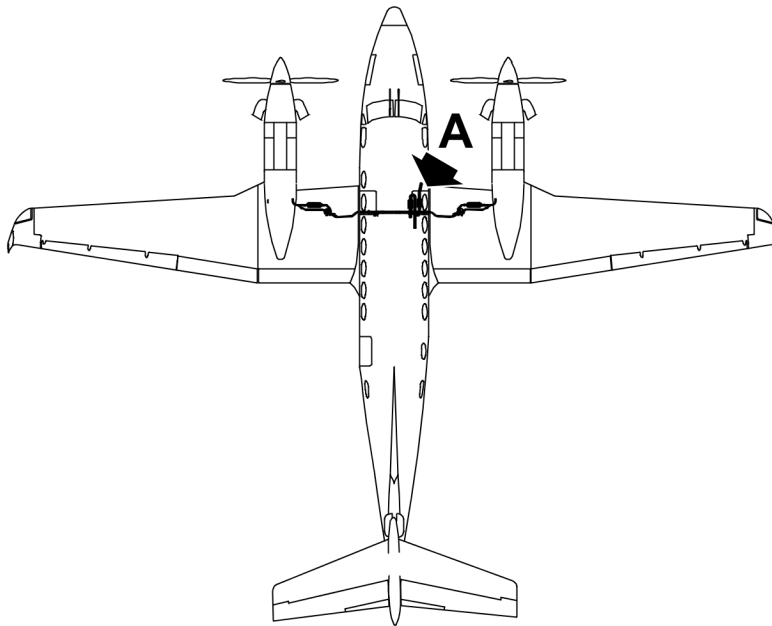
- (1) For installation of the cockpit acoustic muffler (1), perform the steps that follow (Ref. Figure 401, Detail A):
  - (a) Place the cockpit acoustic muffler (1) into position and insert the aft flange into the sleeve (4) that connects the cockpit acoustic muffler (1) to the interconnect ducts.
  - (b) Tighten the two clamps (3) that secure the sleeve (4) which connects the cockpit acoustic muffler (1) to the interconnect ducts.
  - (c) Place the end of the cockpit bleed air duct (5) over the forward flange of cockpit acoustic muffler (1).
  - (d) Properly position and tighten the clamp (3) that secures the cockpit bleed air duct (5) to the cockpit acoustic muffler (1).
- (2) For installation of the cabin acoustic muffler (2), perform the steps that follow (Ref. Figure 401, Detail A):
  - (a) Place the cabin acoustic muffler (2) into position and insert the aft flange into the sleeve (4) that connects the cabin acoustic muffler (2) to the interconnect ducts.
  - (b) Tighten the two clamps (3) that secure the sleeve (4) which connects the cabin acoustic muffler (2) to the interconnect ducts.
  - (c) Place the end of the cabin bleed air duct (6) over the forward flange of cabin acoustic muffler (2).
  - (d) Properly position and tighten the clamp (3) that secures the cabin bleed air duct (6) to the cabin acoustic muffler (2).
  - (e) Install the P-clamp that secures the cabin bleed air duct (6) to the adjacent structure.
- (3) Perform the BATTERY POWER CONNECT procedure (Ref. 24-30-01, 201).
- (4) Perform the CONNECTING AND APPLYING EXTERNAL POWER procedure (Ref. 24-40-00, 201).
- (5) Start both engines in accordance with Section 4 of the Pilot's Operating Handbook.

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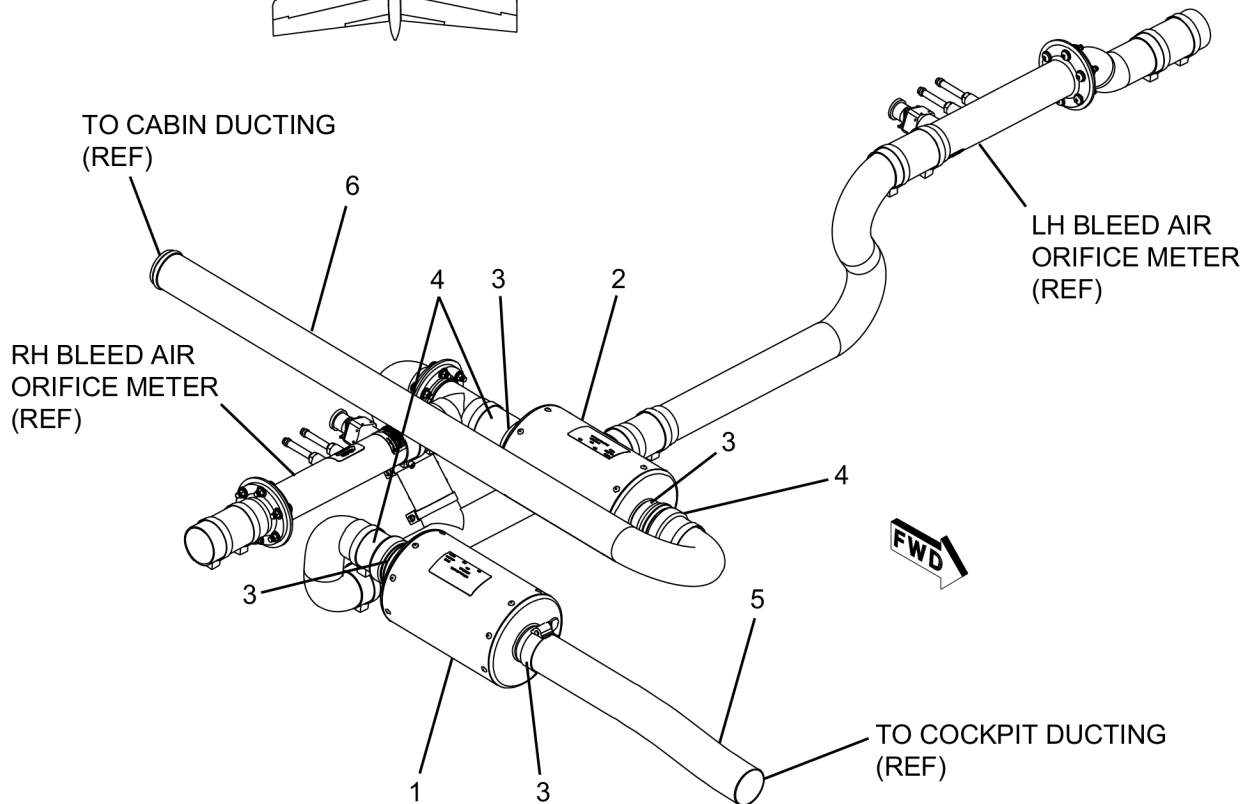
- (6) In the ENVIRONMENTAL controls section on the copilot subpanel, set the MODE switch to the MAN HEAT position.
- (7) Check the bleed air connections in the area of both acoustic mufflers (1) for leaks.
- (8) Set the MODE switch to the OFF position.
- (9) Shut down both engines in accordance with Section 4 of the Pilot's Operating Handbook.
- (10) Perform the DISCONNECTING EXTERNAL POWER procedure (Ref. 24-40-00, 201).
- (11) Install the insulation material on the ends of the bleed air tubes that was removed for access to the clamps (2).
- (12) Install floorboard panels 152ATR and 152BTR (Ref. 06-50-00).
- (13) Perform the FORWARD RIGHT CABIN PARTITION INSTALLATION procedure (Ref. 25-20-07, 401).
- (14) Perform the CARPET INSTALLATION procedure at the locations where the passenger seats were removed (Ref. 25-20-39, 401).
- (15) Perform the PASSENGER SEAT INSTALLATION procedure for the forward passenger seats on the right side (Ref. 25-20-01, 401).

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1. COCKPIT MUFLER ASSEMBLY
2. CABIN MUFLER ASSEMBLY
3. CLAMP
4. SLEEVE (3 TOTAL)
5. COCKPIT BLEED AIR DUCT
6. CABIN BLEED AIR DUCT



**DETAIL A**

Acoustic Muffer Installation  
 Figure 401 (Sheet 1)





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**BLEED AIR ORIFICE METER - REMOVAL/INSTALLATION**  
(FL-1300, FL-1307 and After; FM-110 and After)

**1. Bleed Air Orifice Meter**

**A. Removal**

**NOTE:** The instructions that follow are the same for both bleed air orifice meters, except where specified.

- (1) Perform the BATTERY POWER DISCONNECT procedure (Ref. 24-30-01, 201).
- (2) Perform the PASSENGER SEAT REMOVAL procedure for the forward passenger seats on the affected side(s) (Ref. 25-20-01, 401).
- (3) Perform the CARPET REMOVAL procedure at the locations where the passenger seats were removed (Ref. 25-20-39, 401).
- (4) For removal of the left bleed air orifice meter, remove floorboard panel 151BTL. For removal of the right bleed air orifice meter, remove floorboard panel 152BTR (Ref. 06-50-00).
- (5) Disconnect the wire harness connector from the temperature sensor electrical connector (2) (Ref. Figure 401, Detail B). Install a protective cover on the wire harness connector.
- (6) Loosen the two clamps that secure the two test port fitting hoses (11) to the bleed air orifice meter (1). Disconnect the two hoses from the bleed air orifice meter.
- (7) Remove insulation material from the end of the bleed air tube assembly (5) as necessary to get access to the clamps (4) that secure the sleeve (3) that connects the inboard end of the bleed air orifice meter (1) to the tube assembly.
- (8) Loosen the clamps (4) on the sleeve (3). Slide the sleeve (3) off of the inboard end of the bleed air orifice meter (1).
- (9) Remove the six nuts (10), twelve washers (9) and six screws (8) that attach the outboard end of the bleed air orifice meter (1) and the check valve (6) to the flanged tube assembly (7).
- (10) Remove the bleed air orifice meter (1) and the check valve (6) from the airplane.

**B. Installation**

**CAUTION:** Make sure that the check valve is installed correctly in regard to the direction of bleed air flow.

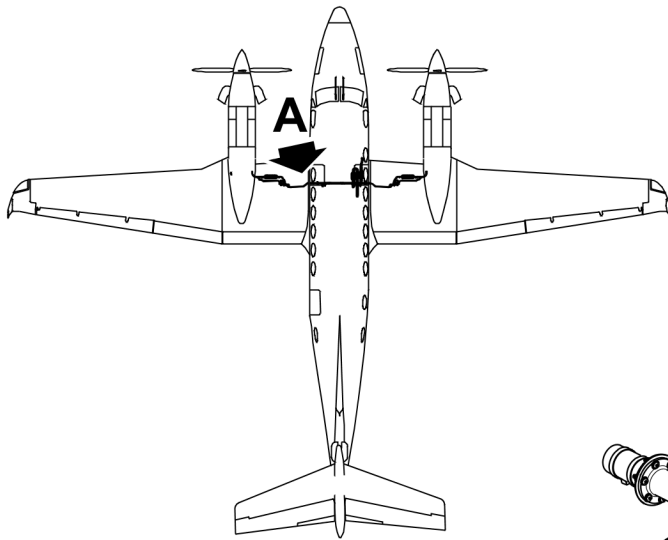
- (1) Place the bleed air orifice meter (1) and the check valve (6) into position and install the six screws (8), twelve washers (9) and six nuts (10) that attach the bleed air orifice and the check valve to the flanged tube assembly (7) (Ref. Figure 401, Detail B).
- (2) Slide the sleeve (3) that connects the bleed air orifice meter (1) to the tube assembly (5).
- (3) Tighten the clamps (4) that secure the sleeve (3) to the tube assembly and the bleed air orifice meter (1).
- (4) Connect the two test port fitting tubes (11) to the bleed air orifice meter (1) and tighten the two clamps.
- (5) Remove the protective cover and connect the wire harness connector to the temp sensor electrical connector (2).
- (6) Perform the BATTERY POWER CONNECT procedure (Ref. 24-30-01, 201).
- (7) Perform the CONNECTING AND APPLYING EXTERNAL POWER procedure (Ref. 24-40-00, 201).
- (8) Start both engines in accordance with Section 4 of the Pilot's Operating Handbook.
- (9) In the ENVIRONMENTAL controls section on the copilot subpanel, set the MODE switch to the MAN HEAT position.
- (10) Check the connections of the bleed air orifice meter (1) for leaks.
- (11) Set the MODE switch to the OFF position.
- (12) Shut down both engines in accordance with Section 4 of the Pilot's Operating Handbook.
- (13) Perform the DISCONNECTING EXTERNAL POWER procedure (Ref. 24-40-00, 201).
- (14) Install the insulation material on the end of the bleed air tube assembly that was removed for access to the clamps (4).
- (15) Install floorboard panel 151BTL (LH) and/or 152BTR (RH) (Ref. 06-50-00).

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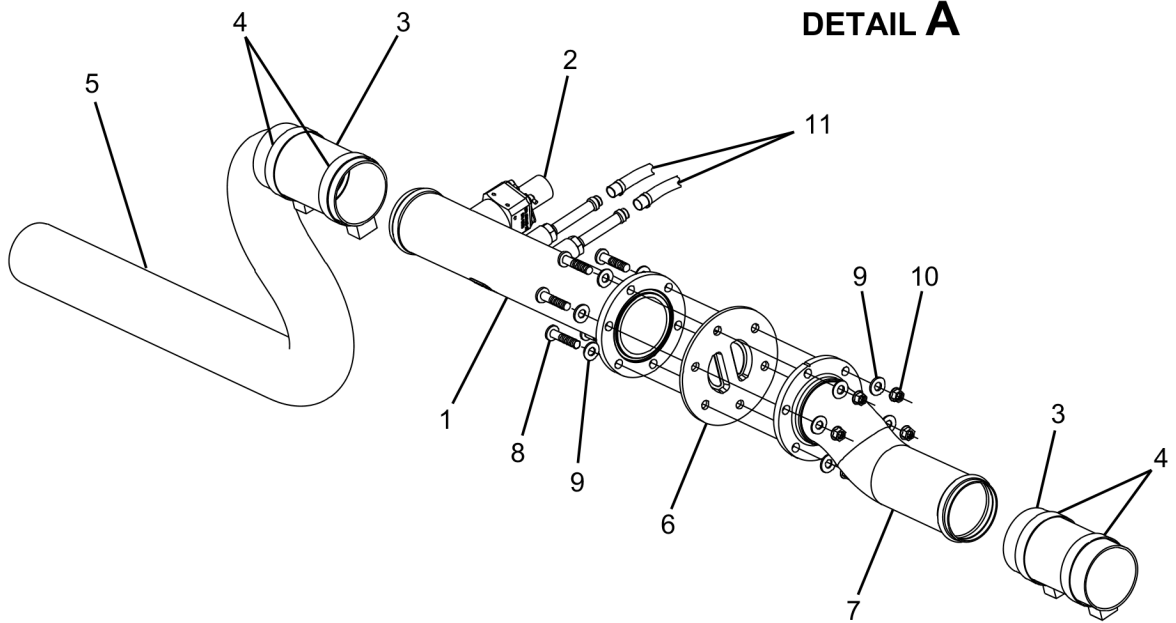
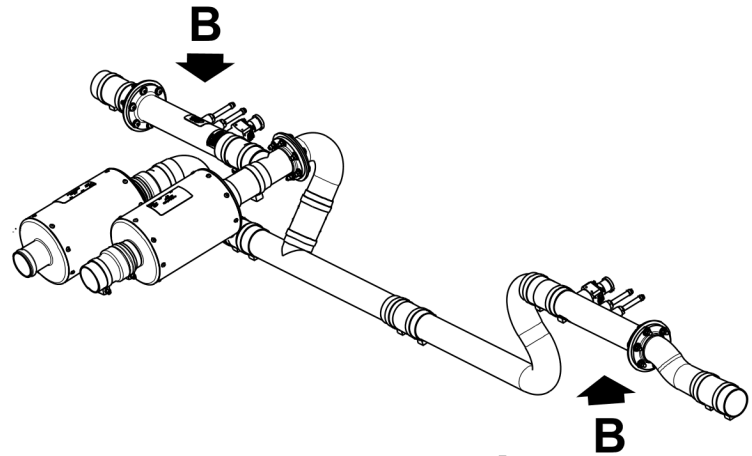
- (16) Perform the CARPET INSTALLATION procedure at the locations where the passenger seats were removed (Ref. 25-20-39, 401).
- (17) Perform the PASSENGER SEAT INSTALLATION procedure for the forward passenger seats on the affected side(s) (Ref. 25-20-01, 401).

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1. BLEED AIR ORIFICE METER
2. TEMP SENSOR ELECTRICAL CONNECTOR
3. SLEEVE
4. CLAMP
5. TUBE ASSEMBLY
6. CHECK VALVE
7. FLANGED TUBE ASSEMBLY
8. SCREW (6 TOTAL)
9. WASHER (12 TOTAL)
10. NUT (6 TOTAL)
11. TEST PORT FITTING HOSES



**DETAIL B**

(LH SIDE SHOWN, RH SIDE OPPOSITE)

Bleed Air Orifice Meter Installation  
 Figure 401 (Sheet 1)



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**HEATING - DESCRIPTION AND OPERATION**

**1. Description**

**A. Bleed Air Heating**

Engine bleed air, through the bleed air valves, is utilized to warm the cockpit and cabin.

Heating air outlets are provided for each pilot under the instrument panel, and in the floor, outboard of the pilot's and copilot's seats. The COCKPIT TEMP control knob, located in the ENVIRONMENTAL group on the copilot's left subpanel, sets the desired cockpit temperature while the system is in the AUTO mode. The environmental controller then regulates the temperature of the air supplied to the cockpit heating air outlets in order to maintain the desired cockpit temperature. A constant flow of conditioned air is supplied to the glareshield outlets and the windshields defrost outlets. In AUTO mode, this temperature is regulated to a maximum default temperature of approximately 70°F. In colder applications, when more heat is initially demanded, this outlet duct temperature is allowed to reach 105°F. In MAN HEAT mode, the overhead and glareshield duct temperatures are controllable by the COCKPIT/CABIN TEMP knobs, which regulate the amount of heat added to the recirculated air exiting these outlets.

If the bleed air temperature in the ducts supplying the floor outlets exceeds 300°F, the amber Duct Overtemp CAS message will come on.

**(1) Bypass Valve Operation (Airplane Serials FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306 and FM-66 thru FM-109)**

The bleed air bypass valves located in each wing center section provide the function of removing excess heat from the engine bleed air as required for proper temperature regulation. The Keith Products system will cause both valves to operate at the same time. During the manual modes of operation, power for the valves is applied to the controller through the Manual Temperature Control switch and Cabin Temperature Mode switch to connector P586 pin 36 for the cool command and pin 7 for the heat command. This power is routed through a relay in the controller that is in a normally closed (relaxed) condition. Output to the bypass valves is from connector P586 pins 21 (right) and 6 (left) for the cool command and pins 22 (right) and 37 (left) for the heat command. When AUTO mode is selected, the internal relay is energized and the controller will provide the power for the same output pins to the bypass valves. In AUTO mode, the voltage at pins 36 and 7 should be zero even if the Manual Temperature switch is actuated. A switch mounted externally on the left bypass valve will actuate when the valve is 30 degrees from the full cold position and provides a signal to the controller at connector P586 pin 20 to allow for air conditioning. The switch will remain actuated as long as the valve is between the 30 degree and full cold positions.

**(2) Temperature Modulating Valve Operation (Airplane Serials FL-1300, FL-1307 and After, and FM-110 and After)**

The temperature modulating valves are located in each wing center section and provide the function of removing excess heat from the engine bleed air as required for proper temperature regulation. The unit is a motor driven dual butterfly directional control valve designed to mix engine bleed air and cooled heat exchanger air streams to provide modulated outlet temperature control. In the event of a duct over-temperature condition, the valve will automatically drive to the full cold position.

**(3) Servo Operation (Airplane Serials FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306 and FM-66 thru FM-109)**

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There are five servo motors that drive the various valves controlling the air distribution in the airplane. All five servos share the same part number and operate in the same fashion (Ref. Figure 1). The servos are powered by a nominal and constant 14 VDC input from the environmental controller to pin 1 of each servo. Pin 3 of the servo is a constant ground through the controller. The servo movement is accomplished by controlling the potential to pin 2. As pin 2 input ground potential increases the servo operates in a clockwise (CW) (more heat) direction. As the potential to ground decreases and the positive potential increases the servo operates in a counter clockwise (CCW) (less heat) direction. If pin 2 becomes an open circuit the servo will travel to its midpoint. The cabin and cockpit heat servos as well as the add heat servos will vary in rotation from zero to 100% heat according to the controller commands in the AUTO mode. In MAN HEAT mode the heat servos are 100% heat. In MAN COOL mode they are 0% heat. The add heat servos can be controlled by the controller or with the temperature control potentiometers in the manual modes. The servo in the forward plenum is either fully CW for electric heat operation of fully CCW when electric heat is not selected.

**B. Electric Heating**

The electric heating system is available for ground use, but must be turned off at least two minutes before engine start. It is operated by rotating the MODE knob in the ENVIRONMENTAL group in the co-pilot's left subpanel, to the ELEC HEAT position. The supplemental electric heating system can only be used on the ground. A ground power unit must be connected to the airplane or one generator must be online.

**CAUTION:** Do not operate the electric heat with the pedestal floor outlet blocked or the cockpit door closed.

**NOTE:** On airplane serials FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306 and FM-66 thru FM-109, the electric heat system will draw approximately 162 amps. On airplane serials FL-1300, FL-1307 and On, and FM-110 and On, the electric heat system will draw approximately 160 amps.

On airplane serials FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306 and FM-66 thru FM-109, the electric heat system utilizes a heater assembly containing six heating elements located in a duct aft of the forward evaporator. The cockpit blower is used to distribute air through the electric heating duct and will operate automatically when the ELEC HEAT mode is selected. Heated air is directed into the cabin through a single floor outlet located directly aft of the cockpit pedestal. The blower will operate at maximum speed regardless of the indication of the COCKPIT BLOWER knob. A yellow Electric Heat On CAS message is provided to indicate that the ELEC HEAT has been selected. When the ELEC HEAT mode is deselected, the Electric Heat On CAS message will go off. However, safety devices built into the heater assembly may continue to temporarily power the blower at a low speed to cool the heater elements and avoid overheating the duct. In the event that residual heat in the elements causes the duct temperature to rise after the blower has initially shut down, the blower will automatically cycle using power from the battery bus to cool the elements regardless of battery switch position. Power for this blower is controlled through the GND HEAT circuit breaker located in the Left Fuel Panel circuit breaker panel.

On airplane serials FL-1300, FL-1307 and On, and FM-110 and On, the electric heater is located under the RH floorboard aft of the copilot seat. The heater incorporates a built in fan which provides up to 100 CFM of airflow. A self resetting high temperature switch is provided for over-temperature protection. The switch will open and remove power at  $392^{\circ} \pm 9^{\circ}\text{F}$  and will close to reapply power when the temperature has cooled to  $338^{\circ} \pm 27^{\circ}\text{F}$ . The blower will operate at maximum speed regardless of the indication of the COCKPIT BLOWER knob. A yellow Electric Heat On CAS message is provided to indicate that the ELEC HEAT has been selected. When the ELEC HEAT mode is deselected, the Electric Heat On CAS message will go off. Power for this blower is controlled through the GND HEAT circuit breaker located in the Left Fuel Panel circuit breaker panel.

**C. Aft Electric Heat Equipment Panel**

The Aft Electric Heat Equipment Panel is located at zone 163, under the center aisle floorboard, even with the fifth cabin window. The panel is between FS 251 and FS 261, just right of the center line of the airplane (Ref. Figure 2).

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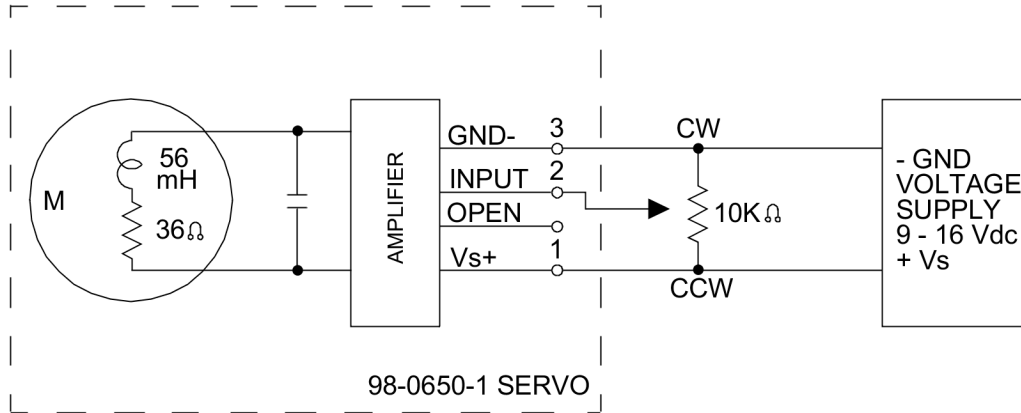
D. Forward Electrical Heat Equipment Panel

The Forward Electrical Heat Equipment Panel (A215) is located at zone 132, under the cockpit floorboard, just to the right of the centerline of the airplane between FS 125.0 and 134.0 (Ref. Figure 3).



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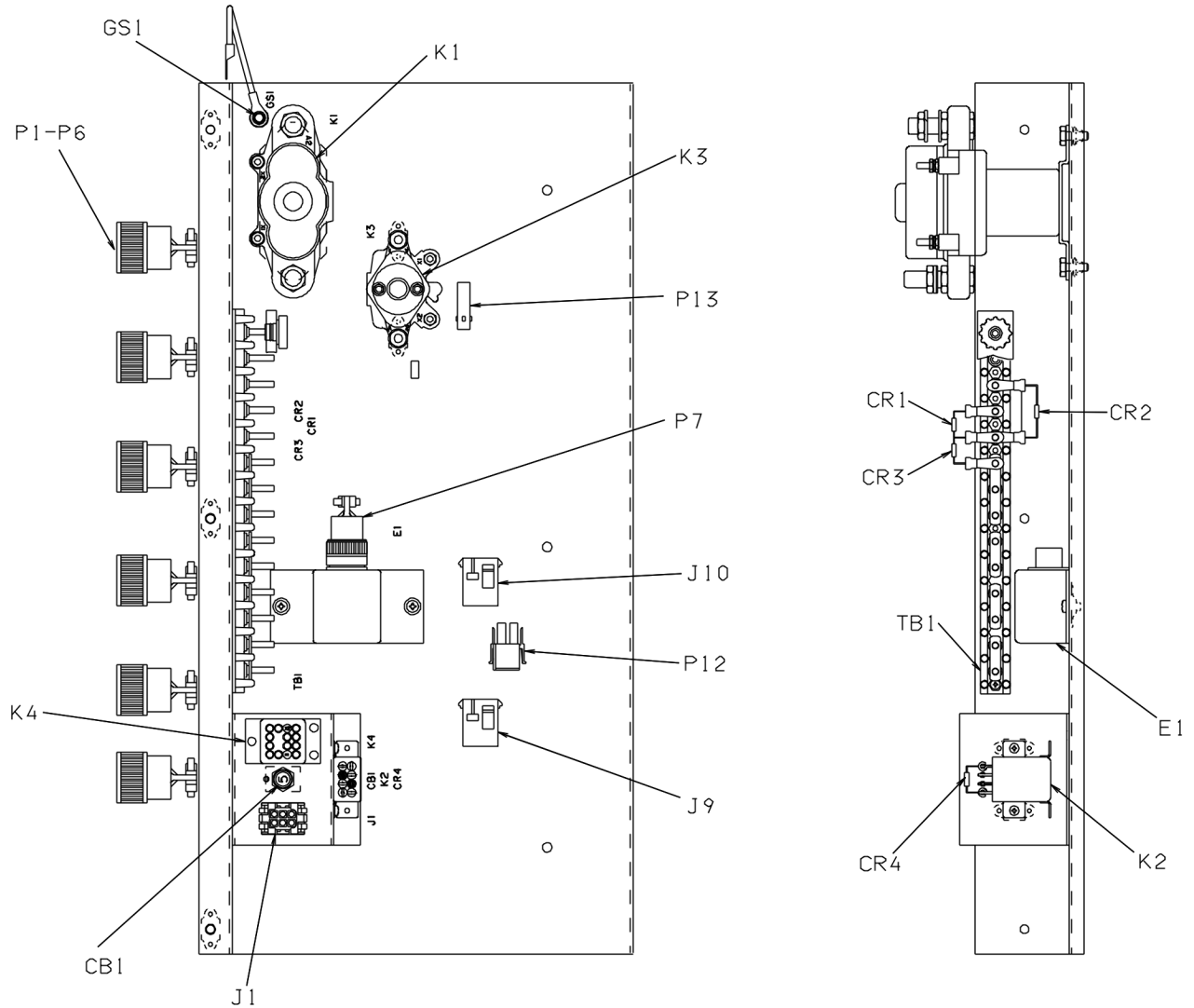


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Servo Operation  
 Figure 1 (Sheet 1)

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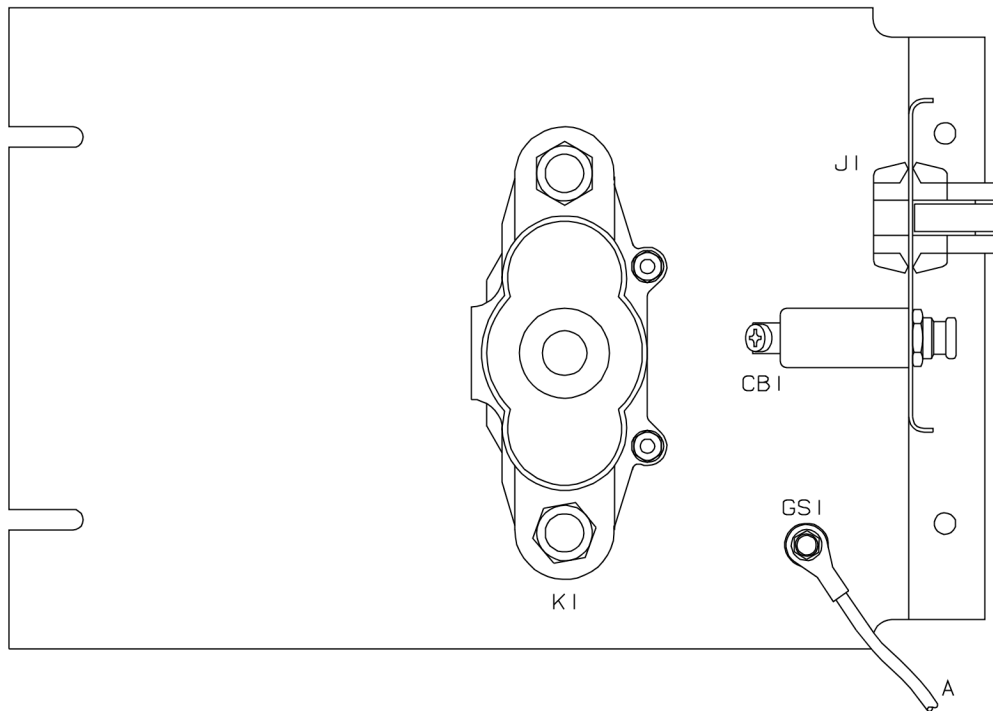
- |         |   |
|---------|---|
| K1      | -AFT ELECTRIC HEATER EMERGENCY SHUTDOWN RELAY (FL-82 THRU FL-492, FL-494 THRU FL-499) |
| K2      | -CABIN LIGHTING RELAY   |
| K3      | -AFT EVAPORATOR BLOWING POWER RELAY (FL-82 THRU FL-492, FL-494 THRU FL-499)           |
| K4      | -CABIN LIGHTING RELAY   |
| CB1     | -AFT ELECTRIC HEATER POWER CIRCUIT BREAKER  |
| J1      | -ELECTRIC HEAT POWER PANEL RECEPTACLE   |
| GS1     | -GROUND STUD  |
| A       | -JUMPER ASSEMBLY  |
| P1-P7   | -CABIN LIGHTING PLUG  |
| P12-P13 | -CABIN LIGHTING PLUG  |
| CR1-CR4 | -CABIN LIGHTING DIODE   |
| J8      | -CABIN LIGHTING RELAY SOCKET  |
| J9-J 10 | -CABIN LIGHTING RECEPTACLE  |
| TB1     | -CABIN LIGHTING TERMINAL BOARDS   |
| E1      | -DIMMER CONTROL   |

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Aft Electric Heat Equipment Panel  
Figure 2 (Sheet 1)

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COMPONENTS

- K I -FORWARD ELECTRIC HEATER EMERGENCY SHUTDOWN RELAY
- CB I -FORWARD ELECTRIC HEATER POWER CIRCUIT BREAKER
- J I -RECEPTACLE
- G S I -GROUND STUD
- A -JUMPER ASSEMBLY

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Forward Electric Heat Equipment Panel  
Figure 3 (Sheet 1)



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**ELECTRIC HEATER - REMOVAL/INSTALLATION**  
**(FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306; FM-66 thru FM-109)**

**1. Electric Heater**

**A. Removal**

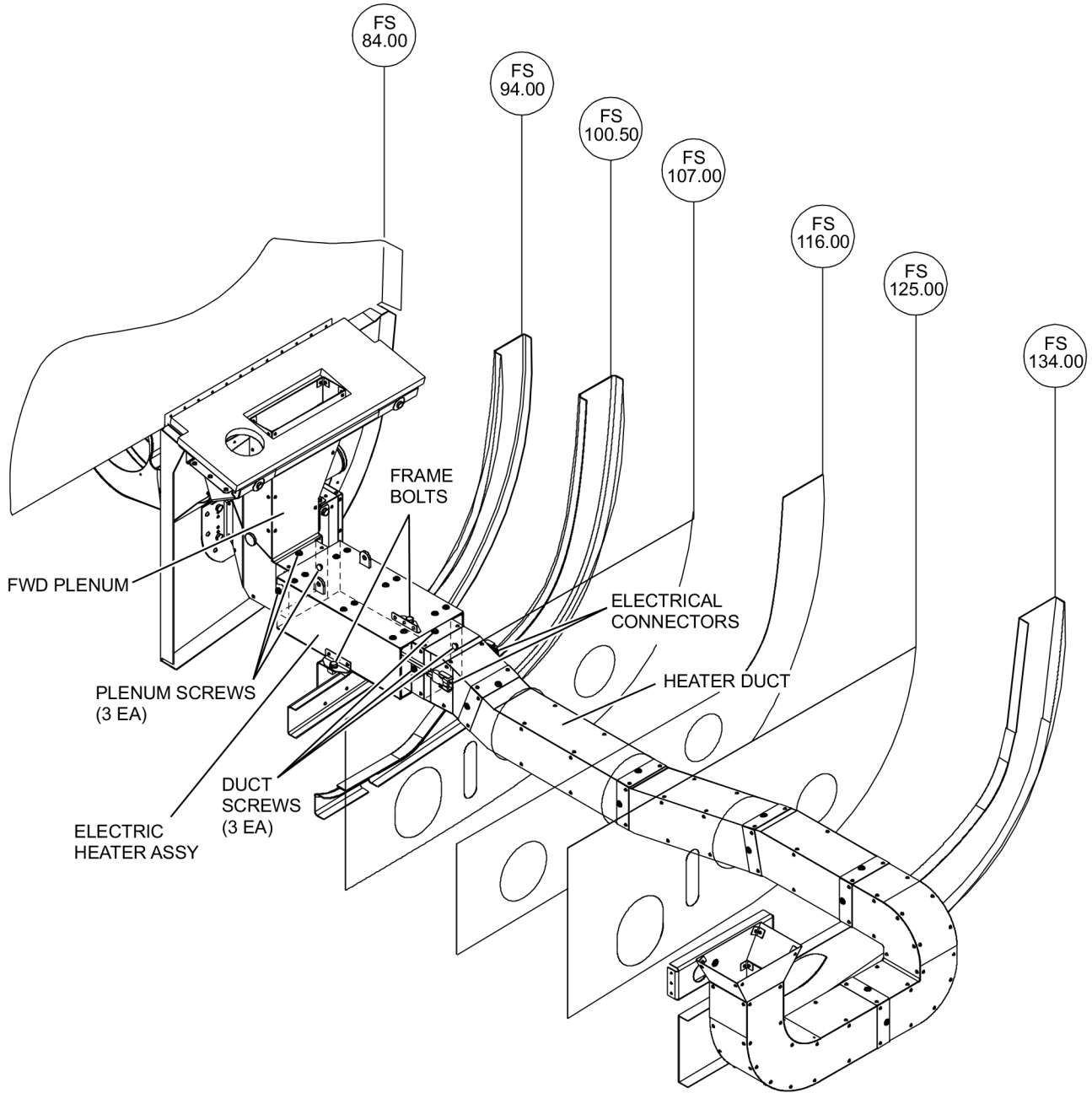
- (1) Make sure that the BAT switch is set to the OFF position and tag the switch with a caution tag indicating "DO NOT APPLY POWER".
- (2) Perform the BATTERY POWER DISCONNECT procedure (Ref. 24-30-01, 201) and tag the connector with a caution tag "DO NOT RECONNECT".
- (3) Perform the PILOT/COPILOT SEAT REMOVAL procedure (Ref. 25-10-00, 401) to remove the copilot seat.
- (4) Remove the flight compartment floorboards on the copilot side between FS 84.00 and FS 107.00.
- (5) Disconnect the flexible duct from the forward plenum to gain access to the electric heater (Ref. Figure 401).
- (6) Disconnect the electrical connections from the electric heater.
- (7) Remove three screws connecting the electric heater to the plenum.
- (8) Remove two bolts attaching the electric heater to the frame bracket.
- (9) Remove three screws connecting the electric heater to the aft duct.
- (10) Remove the electric heater from the airplane.

**B. Installation**

- (1) Place the electric heater in position below the rudder pedals and into the forward plenum with the electrical connectors pointing aft. (Ref. Figure 401).
- (2) Install two bolts attaching the electric heater to the frame bracket.
- (3) Install three screws connecting the electric heater to the plenum.
- (4) Install three screws attaching the aft duct to the electric heater.
- (5) Install the flexible duct to the forward plenum with attachment screws.
- (6) Connect and secure the electrical connections.
- (7) Install flight compartment floorboards on the copilot side between FS 84.00 and FS 107.00.
- (8) Perform the PILOT/COPILOT SEAT INSTALLATION procedure (Ref. 25-10-00, 401) to install the copilot seat.
- (9) Perform the BATTERY POWER CONNECT procedure (Ref. 24-30-01, 201) and remove the caution tags.

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Electric Heater  
 Figure 401 (Sheet 1)



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**BLEED AIR BYPASS VALVE - INSPECTION/CHECK**  
(FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306; FM-66 thru FM-109)

**1. Bleed Air Bypass Valve**

A. Operational Check

The left and right bleed air bypass valves are located on the underside of the inboard wing center section inboard of the heat exchanger discharge ducts.

**NOTE:** Two personnel are required to perform this procedure.

- (1) Remove the access panels covering the bleed air bypass valves (Ref. 06-50-00, 001).
- (2) Perform the CONNECTING AND APPLYING EXTERNAL POWER procedure (Ref. 24-40-00 201).
- (3) While operating the heating system in the MANUAL HEAT mode:

**NOTE:** In normal operation the left and right bleed air bypass valves operate at the same time.

- (a) Hold the manual temperature control switch to the DECR position for 30 seconds. Make sure that the left and right bleed air bypass valves move to the OPEN position.

**NOTE:** During a DECR mode, the right bleed air bypass valve moves to the fully open position first then the left bleed air bypass valve moves to the fully open position.

- (b) Hold the manual temperature control switch to the INCR position for 30 seconds. Make sure that the left and right bleed air bypass valves move to the CLOSED position.

**NOTE:** In the INCR mode, the left bleed air bypass valve moves to the fully closed position first then the right bleed air bypass valve moves to the fully closed position.

- (4) Perform the DISCONNECTING EXTERNAL POWER procedure (Ref. 24-40-00, 201).
- (5) Install the access panels covering the bleed air bypass valves (Ref. 06-50-00, 001).





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**TEMPERATURE MODULATING VALVE - REMOVAL/INSTALLATION**  
 (FL-1300, FL-1307 and After; FM-110 and After)

**1. Information**

Refer to Standard Practices - Airframe Chapter 20-14-00, 201, for information on tools and equipment referenced in Table 301. Refer to Standard Practices - Airframe Chapter 20-15-00, 201, for information on recommended materials referenced in Table 301.

Table 401. Tools/Equipment and Recommended Materials

ITEM	TOOLS AND EQUIPMENT	ITEM	RECOMMENDED MATERIALS
001	Milliohmmeter		

**2. Temperature Modulating Valve**

**A. Removal**

- (1) Perform the BATTERY POWER DISCONNECT procedure (Ref. 24-30-01, 201).
- (2) Remove access panel(s) 511EB (LH) and/or 611EB (RH) (Ref. 06-50-00).
- (3) Remove the four bolts (3) and washers (4) that attach the TMV assembly (1) to the center wing structure.
- (4) Disconnect the wire harness connector from the electrical connector (2) on the lower side of the temperature modulating valve (TMV) assembly (1) (Ref. Figure 401, Detail B). Install a protective cover on the wire harness connector.
- (5) Pull the foil insulation away sufficiently to expose the three clamps (5) that secure the bleed air inlet duct assembly (6), the heat exchanger inlet duct assembly (7) and the outlet duct assembly (8) to the TMV assembly (1).
- (6) Loosen the three clamps (5) and disconnect the bleed air inlet duct (6), the heat exchanger inlet duct (7) and the outlet duct (8) from the TMV assembly (1) (Ref. Figure 401, Detail B).
- (7) Remove the TMV assembly (1) from the airplane.

**B. Installation**

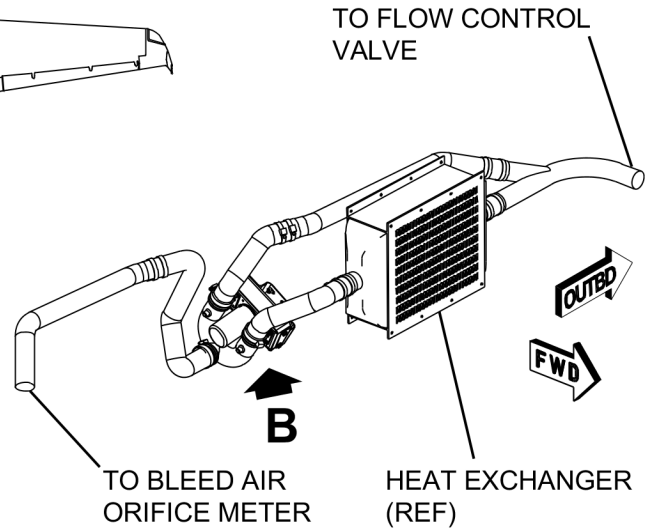
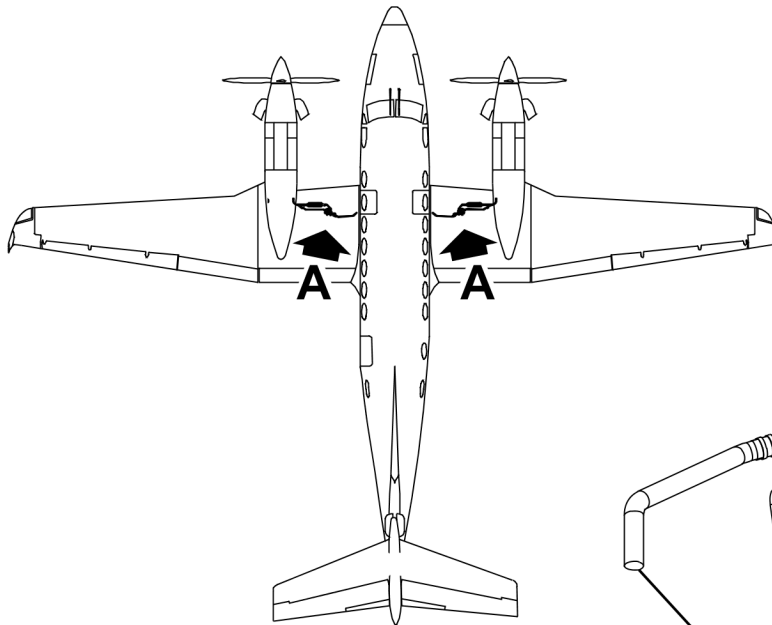
- (1) Place the TMV assembly (1) into its position in the center wing section.
- (2) Connect the bleed air inlet duct (6), the heat exchanger inlet duct (7) and the outlet duct (8) to the TMV assembly (1) (Ref. Figure 401, Detail B).
- (3) Torque the three clamps (5) that secure the bleed air inlet duct (6), the heat exchanger inlet duct (7) and the outlet duct (8) to the TMV assembly (1) from 30 to 50 inch-pounds.
- (4) Place the foil insulation over the three clamps (5).
- (5) Remove the cover and connect the wire harness connector to the electrical connector (2) on the lower side of the TMV assembly (1) (Ref. Figure 401, Detail B).
- (6) Install the four bolts (3) and washers (4). Torque the four bolts from 20 to 25 inch-pounds.
- (7) Use a milliohmmeter (001, Table 401) to measure the resistance between the temperature modulating valve body and the adjacent center wing structure. The resistance must not be more than 0.0025 ohms.
- (8) Perform the BATTERY POWER CONNECT procedure (Ref. 24-30-01, 201).
- (9) Perform the CONNECTING AND APPLYING EXTERNAL POWER procedure (Ref. 24-40-00, 201).
- (10) Start both engines in accordance with Section 4 of the Pilot's Operating Handbook.
- (11) In the ENVIRONMENTAL controls section of the copilot subpanel, set the MODE switch to the MAN HEAT position.
- (12) While operating the system in the MAN HEAT mode:
  - (a) Hold the MAN TEMP switch to the "DECR" position for 30 seconds.
  - (b) Check for the presence of ambient temperature air at the cockpit and cabin outlet vents.
  - (c) Hold the MAN TEMP switch to the "INCR" position for 30 seconds.
  - (d) Check for the presence of warm air at the cockpit and cabin outlet vents.
- (13) In the ENVIRONMENTAL controls section, set the MODE switch to OFF.
- (14) Shut down both engines in accordance with Section 4 of the Pilot's Operating Handbook.

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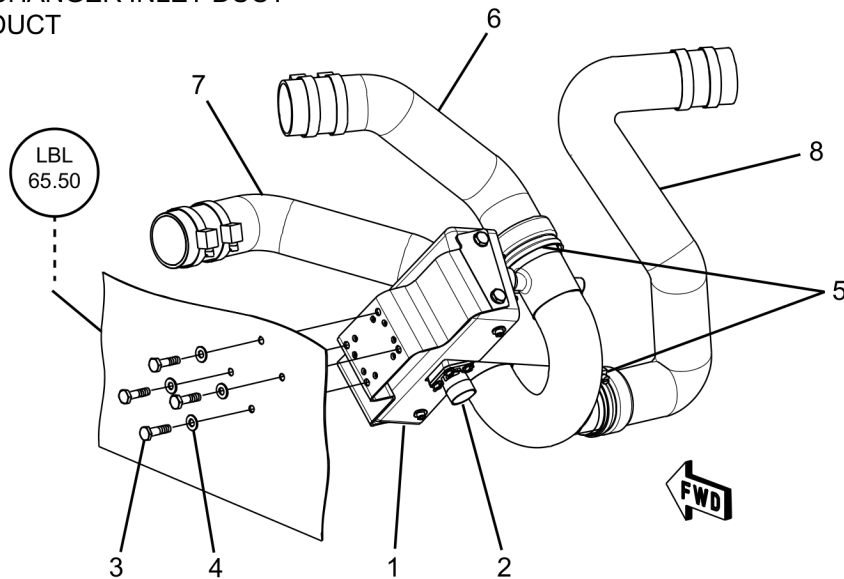
- (15) Perform the DISCONNECTING EXTERNAL POWER procedure (Ref. 24-40-00, 201).
- (16) Install access panel(s) 511EB (LH) and/or 611EB (RH) (Ref. 06-50-00).

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1. TEMPERATURE MODULATING VALVE
2. ELECTRICAL CONNECTOR
3. BOLT (4 TOTAL)
4. WASHER (4 TOTAL)
5. CLAMP (3 TOTAL)
6. BLEED AIR INLET DUCT
7. HEAT EXCHANGER INLET DUCT
8. OUTLET DUCT



**DETAIL B**

Temperature Modulating Valve Installation  
 Figure 401 (Sheet 1)



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**ELECTRIC HEATER - REMOVAL/INSTALLATION**  
**(FL-1300, FL-1307 and After; FM-110 and After)**

**1. Information**

Refer to Standard Practices - Airframe Chapter 20-14-00, 201, for information on tools and equipment referenced in Table 301. Refer to Standard Practices - Airframe Chapter 20-15-00, 201, for information on recommended materials referenced in Table 301.

Table 401. Tools/Equipment and Recommended Materials

ITEM	TOOLS AND EQUIPMENT	ITEM	RECOMMENDED MATERIALS
		09-081	Glass Cloth Tape
		09-086	Film Tape

**2. Electric Heater**

**A. Removal**

- (1) Perform the BATTERY POWER DISCONNECT procedure (Ref. 24-30-01, 201).
- (2) Perform the FORWARD RIGHT CABIN PARTITION REMOVAL procedure (Ref. 25-20-07, 401).
- (3) Remove floorboard panel 152ATR (Ref. 06-50-00).
- (4) Disconnect the wire harness connector from the electrical connector (8) on the right side of the electric heater assembly (1) (Ref. Figure 401, Detail C). Install a protective cover on the wire harness connector.
- (5) Tag and disconnect the positive and negative power leads (9) and (10) from the right side of the electric heater assembly (1) (Ref. Figure 401, Detail C). Keep all removed hardware for later installation.
- (6) Remove the insulation from the joint between the heater transition outlet duct (4) and the transition duct (5).
- (7) Remove the tape that secures the heater transition outlet duct (4) and the transition duct (5) together.
- (8) Remove the eight screws (2) and washers (3) that attach the electric heater assembly (1) to the mounting base (11) (Ref. Figure 401, Detail B).
- (9) Slide the electric heater assembly (1) and transition outlet duct (4) as a unit aft and remove them from the area below the floor.
- (10) Remove the five screws (6) and washers (7) that attach the transition outlet duct assembly (4) to the electric heater assembly (1) (Ref. Figure 401, Detail B).

**B. Installation**

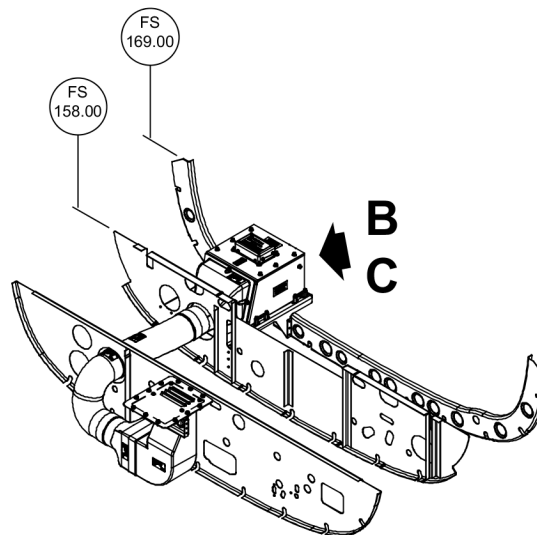
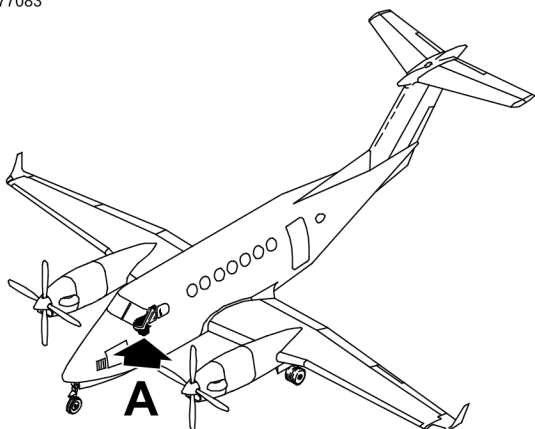
- (1) Place the heater transition outlet duct (4) onto the outlet side of the electric heater assembly (1) and install the five screws (6) and washers (7).
- (2) Place the electric heater assembly (1) and transition outlet duct (4) as a unit onto the mounting base (11) and install the eight screws (2) and washers (3) (Ref. Figure 401, Detail B).
- (3) Use glass cloth tape (09-081, Table 401) to connect the heater outlet transition duct (4) and the transition duct (5) together.
- (4) Use film tape (09-086, Table 401) to install the insulation over the joint of the heater transition outlet duct (4) and the transition duct (5).
- (5) Connect the positive and negative power leads to the positive and negative power lead terminals (9) and (10) on the right side of the electric heater assembly (1) (Ref. Figure 401, Detail C). Remove the tags when the connections are complete.
- (6) Torque the nut on the positive power cable terminal (9) from 100 to 120 inch pounds.
- (7) Torque the nut on the negative power cable terminal (10) from 120 to 140 inch pounds.
- (8) Remove the cover and connect the wire harness connector to the electrical connector (8) on the right side of the electric heater assembly (1) (Ref. Figure 401, Detail C).
- (9) Perform the BATTERY POWER CONNECT procedure (Ref. 24-30-01, 201).
- (10) Perform the CONNECTING AND APPLYING EXTERNAL POWER procedure (Ref. 24-40-00, 201).

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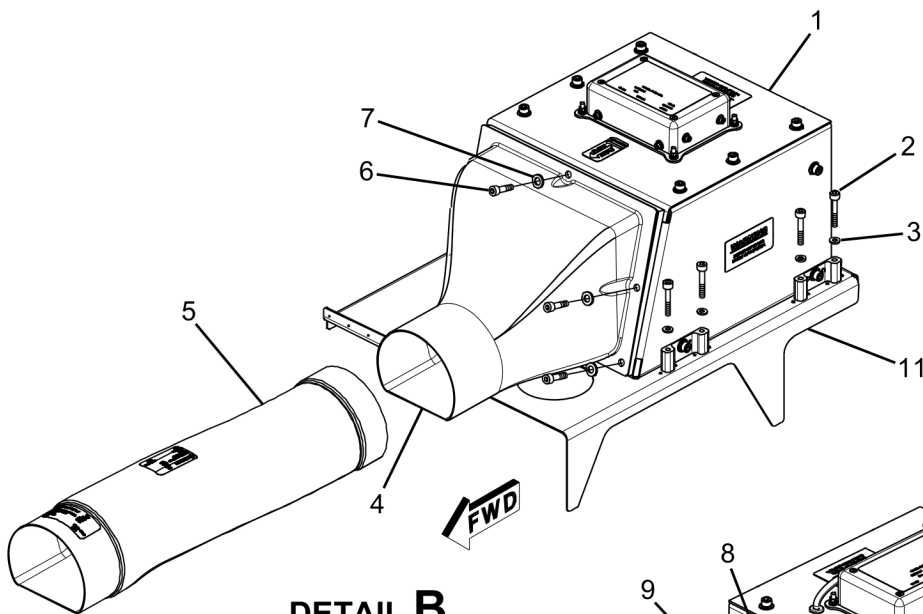
- (11) In the ENVIRONMENTAL controls section of the copilot subpanel, set the MODE switch to the ELEC HEAT position.
- (12) Set the CABIN BLOWER and TEMP knobs to mid-range.
- (13) Operate the electric heat system and check for the presence of warm air at the electric heater outlet vent.
- (14) Perform the DISCONNECTING EXTERNAL POWER procedure (Ref. 24-40-00, 201).
- (15) Install floorboard panel 152ATR (Ref. 06-50-00).
- (16) Perform the FORWARD RIGHT CABIN PARTITION INSTALLATION procedure (Ref. 25-20-07, 401).

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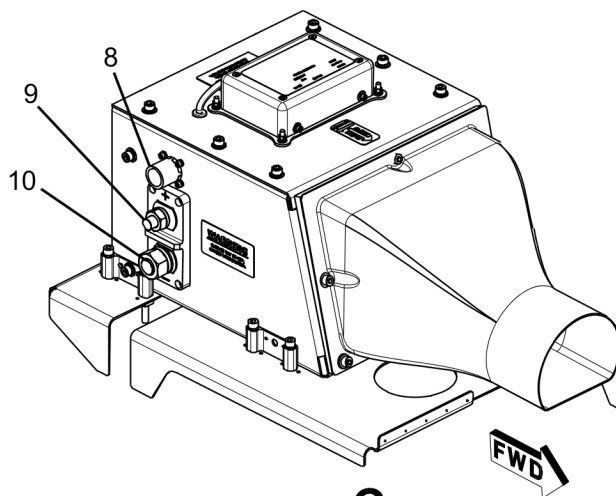
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**DETAIL A**



**DETAIL B**



**DETAIL C**

1. ELECTRIC HEATER ASSEMBLY
2. SCREW (8 TOTAL)
3. WASHER (8 TOTAL)
4. HEATER TRANSITION OUTLET DUCT
5. TRANSITION DUCT
6. SCREW (5 TOTAL)
7. WASHER (5 TOTAL)
8. ELECTRICAL CONNECTOR
9. POSITIVE POWER LEAD TERMINAL
10. NEGATIVE POWER LEAD TERMINAL
11. MOUNTING BASE

Electric Heater Installation  
 Figure 401 (Sheet 1)





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**COOLING - DESCRIPTION AND OPERATION**  
**(FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306, and FM-66 thru FM-109)**

**1. Cooling**

**A. Air Conditioning System**

Cabin/Cockpit air conditioning is provided by a vapor-cycle refrigeration system. The compressor, driven by the right engine, will operate as required in the AUTO or MAN COOL control modes, provided operation is not prohibited by the system protection controls. The system utilizes a single refrigerant pressure switch that is an automatically resetting, dual function device (Binary Switch) that will prevent compressor operation if refrigerant pressure is too high (above 350 PSI) or too low (30 to 35 PSI). The left bleed air bypass valve incorporates a 30° position switch which, when it has opened (indicating significant heat is being introduced), the air conditioner will not operate in the AUTO mode. In the MAN COOL mode, the air conditioner will be ON regardless of the bypass valve position. If the right engine speed is below 62% N<sub>1</sub>, operation is prevented and the white Air Cond N1 Low CAS message will come on.

The cockpit blower assembly recirculates cockpit air through the forward evaporator and into the 4 cockpit distribution ducts which supply the glareshield outlets and windshield defrost. Two cabin blower assemblies provide cooling to the main cabin by recirculating cabin air through two evaporators and into ducting which supplies the nine eyeball outlets in the cabin headliner, and the two eyeball air outlets in the cockpit headliner.

**B. Environmental Controls**

The environmental control section on the copilot's left subpanel provides for automatic or manual control of the system. The system is a dual zone design, allowing for independent control of the temperature in the cabin and the cockpit.

**(1) Automatic Mode Control**

When the MODE selector switch is set to the AUTO position, the heating and air conditioning systems operate automatically. The system will automatically adjust blower speeds, bleed air temperature and compressor clutch on/off state to maintain the temperature set points selected via the TEMP knobs. The temperature range for both of the temperature control potentiometers is approximately 65°F to 85°F. In addition, the controller will modulate five servo-operated airflow valves in the bleed air heat ducting that direct bleed air into the various sections of the airplane on an "on demand" basis in order to help maintain the desired temperature set points. When there is little or no demand for bleed air heat in the cabin or cockpit, the majority of the conditioned bleed air is directed aft to the baggage compartment. Temperature sensing devices in the cockpit and cabin, in conjunction with the TEMP settings, signal the controller to make the necessary adjustments to maintain the set point temperature. If at any time the operator wishes to manually select a different blower speed, the BLOWER control can be rotated out of the AUTO detent to the desired speed. User patience should be practiced with the temperature control set points. The controller will maintain the set point over time. Depending on the set point, transition from one mode to another may take as long as 120 seconds. This slow transition is purposefully built-in to eliminate unwanted temperature variations.

**(2) Manual Mode Control**

When the MODE selector switch is set to the MAN HEAT position, the cockpit and cabin floor heat servos are fully opened and regulation of the cabin and cockpit temperatures is accomplished by actuating the MAN TEMP switch to either the INCR or DECR position as desired. When released, this switch will return to the center (no change) position. This regulates the temperature of the bleed air entering the airplane by operating the bleed air bypass valves, while the flow rate remains unchanged. Bleed air temperature response is proportional to the length of time the MAN TEMP switch is actuated with approximately 30 seconds required to go from full increase to full decrease and vice versa. Both bleed air bypass valves operate simultaneously in this environmental system. Actuations should be 2 to 3 seconds in duration with approximately 60 seconds in between to avoid temperature over/undershoots during flight operation.

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**CAUTION:** Longer than 2 to 3 second switch actuations without waiting 60 seconds in between may result in duct overheat situation.

The COCKPIT TEMP control knob can then be used to manually select the temperature of the glareshield and windshields defrost outlets. The CABIN TEMP control works similarly: When the TEMP control is rotated to full counter clockwise (CCW), the air out of the cabin and cockpit overhead outlets is the coolest (recirculated air without added bleed air heat). The CABIN and COCKPIT BLOWER controls can be used in this mode to control the amount of recirculated air coming out of the appropriate outlets for air recirculation. When the mode selector is in MAN HEAT and the blower controls are in the AUTO detent, the blowers will be in an OFF condition by design.

When the MODE selector switch is set to the MAN COOL position, the air conditioner system will operate provided the speed of the right engine is above 62% N<sub>1</sub> and the system pressures are within the 30 to 350 PSI range of the binary pressure switch. To prevent the evaporator coils from freezing, the blowers will default to a preset minimum speed when the blower controls are in the AUTO detent. In this mode, the TEMP setting knobs operate the same as in MAN HEAT and blower speeds can be changes by varying the CABIN and COCKPIT BLOWER speeds.

## 2. Precautionary Service Procedures

- A. Before attempting maintenance that requires opening of refrigeration lines or compressor fittings, maintenance personnel should be thoroughly familiar with the pertinent instructions. These instructions should be followed carefully to insure that the system functions properly. If moisture is allowed to enter refrigerant lines, ice and hydrofluoric acid can form, causing damage to system components. Contamination of the system with dirt can cause damaging wear in the compressor.
- B. All replacement subassemblies for the air-conditioning system are sealed and dehydrated. They should remain sealed until immediately prior to making connections. Refrigerant lines and other components should be at room temperature before uncapping to prevent the moisture condensation from entering the system. If a connection is not made immediately after uncapping a component, reseal the component.
- C. For airplanes with an R-134a system, compressors are shipped with eight ounces of oil. They are charged with a mixture of R-134a and dry nitrogen to provide an internal pressure that is slightly above atmospheric pressure.
- D. Care should be taken to prevent damage to all fittings and connections. Minute damage to a connection could cause it to leak. Any fittings contaminated with grease or dirt should be cleaned with a cloth dampened with alcohol. Do not use a chlorinated solvent, such as trichloroethylene, as a cleaning agent because it adds contaminants. If dirt, grease or moisture inside lines cannot be removed, the line must be replaced. Airplanes with an R-134a system use refrigeration oil. Apply a small amount of clean refrigeration oil as previously stated to all line connections and dip packings in the oil to help make a leak-resistant connection.

## 3. Air Conditioning System Maintenance Notes

- A. Refrigerant Discharge

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**WARNING:** Due to the air quality control regulations enacted in the United States, you are not permitted to vent refrigerant R-134a into the atmosphere. When performing maintenance on the air conditioning system where refrigerant R-134a can escape from the system, evacuate the system with a recovery or recycle servicing unit that will salvage the refrigerant. The air conditioning system is a high pressure system. Before disconnecting a refrigerant line, the system must be discharged with a recovery servicing unit. Purge the entire system to a 125 micron level. A face shield should be worn when performing maintenance on the lines because refrigerant coming in contact with the eyes can cause loss of sight. Do not smoke when servicing the system with refrigerant because it converts into a highly toxic gas when exposed to an open flame.

The air-conditioning system is a high pressure system. Before disconnecting a refrigerant line, the system must be discharged with a recovery/recycle service unit. Evacuate the entire system for 15 minutes.

Servicing the air conditioning system consists of periodically checking the refrigerant level, checking compressor oil level and changing the system air filters. Charge the system whenever the refrigerant level is low, air has entered the system or components carrying refrigerant are replaced. Refrigerant leaks may be detected by inspection with a flameless leak detector.

B. Aluminum Fittings

**CAUTION:** Insufficient torque can result in loose joints and excessive torque can result in deformed connecting parts. Either condition can result in refrigerant leakage.

When connecting fittings in the system, lubricate new packings with refrigeration oil, apply sealant to mating surface and tighten fittings to the following torque:

- 5/8-inch fittings - torque between 10 to 15 foot-pounds.
- 3/4-inch fittings - torque between 15 to 20 foot-pounds.
- 7/8-inch fittings - torque between 20 to 30 foot-pounds.
- 1 1/16-inch fittings - torque between 25 to 35 foot-pounds.

The receiver/dryer contains desiccant bags that remove moisture from the refrigerant. The receiver/dryer should be the last component connected. It should be connected last to make sure maximum protection of the air-conditioning system against moisture.



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**COOLING - TROUBLESHOOTING**

(FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306; FM-66 thru FM-109)

**1. Information**

**WARNING:** Due to the air quality control regulations enacted in the United States, you are not permitted to vent refrigerant R-134a into the atmosphere. When performing maintenance on the air-conditioning system where refrigerant R-134a can escape from the system, evacuate the system with a recovery/recycle service unit that will recover the refrigerant. The air-conditioning system is a high pressure system. Before disconnecting a refrigerant line, the system must be discharged with a recovery/recycle service unit. Evacuate the entire system for 15 minutes.

Refer to Table 101 and Figure 101 to troubleshoot the air-conditioning system. Charge the system whenever the refrigerant level is low, air has entered the system or components carrying refrigerant are replaced.

**2. Refrigeration System**

A vapor cycle refrigeration system is dynamic in nature. It is difficult to give exact temperature drops, suction pressures and discharge pressures for troubleshooting purposes without knowing all the variables. It is recommended that the maintenance personnel read and become familiar with this section before attempting to troubleshoot the air conditioning system. Below are examples of the dynamic nature of the refrigeration system that should help the troubleshooting process.

**3. Measuring Temperature Drop Across the Evaporator**

Trying to associate a specific temperature drop across the evaporator is dependent on many factors such as inlet air temperature, moisture content (relative humidity) and airflow. On a day with extreme humidity, up to 70% of the evaporator capacity will go towards dehumidification (Latent Heat). That leaves 30% available to actually lower the air temperature (Sensible Heat). A mechanic encountering this scenario may assume that because he can only measure a 10°F (5.6°C) drop in temperature that the system is not operating correctly. This assumption is incorrect because he is not considering the amount of work it takes to condense moisture in the air and convert it to water that pours out of the condensate drain. To further complicate the issue, if you eliminate the source of this humidity by closing the cabin door, your initial temperature readings will have a smaller temperature drop than measurements taken later. This is because you are drying out the air in the cabin and the evaporator is allowed to remove more sensible heat.

**4. Measuring Suction and Discharge Pressure**

The most accurate method to start diagnosing the system is to start with checking the pressures. However, you must remember that these pressures are affected by many different conditions such as outside air temperature, cabin temperature, cabin humidity and charge level. It is impossible to give an accurate head pressure at a specific temperature without knowing these other factors. These pressures can even vary during the troubleshooting process. As the system continues to run, you are removing heat from the cabin and lowering the cabin temperature. This lowered heat load will result in lower suction and discharge pressures.

**5. System Diagnosis**

It is important to understand the basic principles of vapor cycle air-conditioning before attempting to troubleshoot the system. The following is a brief overview.

A. Compressor

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The compressors function is to raise the pressure of the refrigerant to a point where it can be condensed to a liquid at ambient temperature. The compressor creates heat in the process of compression and produces a superheated high-pressure vapor.

**B. Condenser**

The condenser function is to remove the heat from the superheated vapor. As the heat is removed, the vapor will begin to condense into a liquid. Condensing occurs in accordance to a temperature/pressure ratio. The higher the condenser air inlet temperature is, the greater the pressure required to condense, while the lower the condenser air inlet temperature is, the lower the pressure is required for condensing. This is why on a hot day there will be higher discharge pressure than on a cool day.

**C. Receiver/Dryer**

The receiver/dryer is a reservoir for liquid refrigerant. It also contains a filter screen and a desiccant material to remove particles and moisture from the refrigerant. It also makes sure that a filtered and dried column of liquid refrigerant is sent to the expansion valve.

**D. Expansion Valve**

The expansion valve is a device that meters liquid refrigerant into the inlet of the evaporator where it will be evaporated. It has an orifice with a metering pin to vary the flow of refrigerant. The metering pin is attached to a diaphragm that balances suction and spring pressure on one side and capillary sense bulb pressure on the other, which moves the pin in and out of the orifice.

The capillary sensing bulb contains a charge of refrigerant that is permanently sealed. This charge exerts pressure on the diaphragm to move the metering pin. Pressure is generated from the expansion or contraction of the gas charge contained in the bulb as it is warmed or cooled.

The bulb attaches to the suction line where the refrigerant exits the evaporator. It measures the temperature of this line. If there is insufficient refrigerant flowing through the evaporator the gas will be warmer than desired (superheated). This in turn will warm the sense bulb, therefore expanding the gas within and exerting pressure on the diaphragm. The diaphragm will then move the metering pin and increase the flow of refrigerant to the evaporator. With the increased flow of refrigerant, the gas temperature exiting the evaporator will be reduced, therefore cooling the sense bulb, which in turn lowers the pressure within and reduces the pressure exerted on the diaphragm. The diaphragm will then move the metering pin to reduce the refrigerant flow. The valve will make adjustments until a balance has been reached. One of the most common problems associated with expansion valves is a bad attachment of the sense bulb. It must make contact along its entire length and be securely attached to the metallic suction tube exiting the evaporator case. It must be thoroughly insulated with foam tape to make sure that outside air does not affect its reading.

**6. Troubleshooting**

This section applies to troubleshooting the refrigeration circuit only. It will not cover the obvious, such as failed blowers or burned out drive motors (Ref. Table 101).

Lets assume the air-conditioning system is reported as not functioning properly. The report from the pilot may reference poor cooling. From this report the mechanic must decide where to start the investigation. If the outside air temperature (OAT) is below 70°F it is much more difficult to troubleshoot because of the lack of heat load.

**A. Step One**

Install gage set to the service ports. Turn on the system and allow it to stabilize for ten minutes. Observe suction and discharge pressures and temperatures across the evaporator(s). If the evaporator does not have an adequate temperature drop or you suspect a loss of refrigerant charge, stop the system and evacuate and recharge to the prescribed weight of refrigerant R-134a. The air-conditioning refrigerant capacity is 56 ounces of R-134a. With the system charged to the required weight you have now eliminated the possibility of an overcharged or undercharged system as being the cause of the problem.

**B. Step Two**

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Turn the system on and allow it to stabilize for ten minutes. Check the suction and discharge pressure. A normal pressure reading for the suction side should be between 25 psi (172.4 KPa) and 40 psi (275.8 KPa). The normal discharge pressure should be between 150 psi (1034.2 KPa) and 300 psi (2068.4 KPa).

**NOTE:** The suction pressure and discharge pressure is dependant on OAT and evaporator heat load.

Lets assume the condenser blower and evaporator blowers are functioning properly. This leaves only those components that are involved in compressing and metering the refrigerant as suspect. The suction and discharge pressures will indicate the nature of the problem.

The expansion valve is the brain of the system. It controls how much liquid refrigerant is released into the evaporation coil. When this component fails, it is important to understand the different ways it can fail and the associated symptoms.

- (1) **The expansion valve is stuck in mid range:** This is usually associated with a contaminated system. The evaporator will have a poor temperature drop at extreme operating parameters and therefore there is inadequate refrigerant flow at high heat loads and excessive refrigerant flow at low heat loads (coil flooding).
- (2) **The expansion valve is stuck wide open:** This will cause excessive refrigerant to flow into the evaporator coil. The coil will become "Flooded" with liquid refrigerant. The result will be poor temperature drop because the refrigerant is not evaporating into a vapor. Because the expansion valve is wide open, the suction pressure will be higher than normal and the return line will be very cold because the liquid refrigerant is evaporating in the line instead of the evaporator. The discharge pressure will be lower than normal because there is very little pressure drop across an open expansion valve. There may also be bubbles in the sight glass under this condition.
- (3) **The expansion valve is stuck closed:** This will result in minimal refrigerant flow in to the evaporator. The coil is being starved for refrigerant. The result will be poor temperature drop because there is a lack of refrigerant available to evaporate. The suction line exiting the evaporator will be warmer than normal. The suction and discharge pressures in this scenario will not look much different from normal. The biggest clue will be a very warm suction line at the compressor.



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Table 101. Troubleshooting - Air Conditioning System

CONDITION	SERVICE PRESSURE GAGE READING	PROBABLE CAUSE	CORRECTIVE ACTION
<p>1. <b>Insufficient Refrigerant Charge:</b>            Insufficient cooling, bubbles appear in sight glass (SEE NOTE).</p>	<p>(a) <b>Suction Pressure:</b>            Below normal.            (b) <b>Discharge Pressure:</b>            Below normal.</p>	Refrigerant is low or leaking.	<p>(a) Leak test.            (b) Repair leak.            (c) Charge system.            (d) Evacuate as necessary and recharge system.</p>
<p>2. <b>Almost No Refrigerant:</b>            No cooling action. A lot of bubbles or a mist appears in sight glass (SEE NOTE).</p>	<p>(a) <b>Suction Pressure:</b> Much below normal.            (b) <b>Discharge Pressure:</b> Much below normal.</p>	Serious refrigerant leak.	<p>(a) Stop compressor immediately.            (b) Leak test.            (c) Discharge system.            (d) Repair leak(s).            (e) Replace receiver dryer if necessary.            (f) Check system oil level.            (g) Evacuate and recharge system. Check low pressure switch circuit.</p>
<p>3. <b>Air In System:</b>            Insufficient cooling. Sight glass shows occasional bubbles (SEE NOTE).</p>	<p>(a) <b>Suction Pressure:</b>            Above normal.            (b) <b>Discharge Pressure:</b>            Above normal.</p>	Air mixed with refrigerant in system.	<p>(a) Discharge system.            (b) Replace receiver dryer.            (c) Evacuate and charge system.</p>
<p>4. <b>Moisture In System:</b>            After operation for a while, pressure on suction side may show vacuum pressure reading. During this condition, discharge air will be warm. As warning of this, reading shows approximately 6-psi oscillation.</p>	<p>(a) <b>Suction Pressure:</b>            Below normal.            (b) <b>Discharge Pressure:</b>            Above normal.</p>	<p>(a) Dryer is saturated with moisture.            (b) Moisture has frozen at expansion valve.            (c) Refrigerant flow is restricted.</p>	<p>(a) Discharge system.            (b) Replace receiver dryer (twice if necessary).            (c) Evacuate system completely. (Repeat 30 minute evacuating three times.)            (d) Recharge system.</p>

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Table 101. Troubleshooting - Air Conditioning System (continued)

CONDITION	SERVICE PRESSURE GAGE READING	PROBABLE CAUSE	CORRECTIVE ACTION
<p>5. <b>Faulty Expansion Valve:</b> Slight cooling. Sweating or frosted expansion valve outlet.</p>	<p>(a) <b>Suction Pressure:</b> Below normal. (b) <b>Discharge Pressure:</b> Below normal.</p>	<p>(a) Expansion valve restricts refrigerant. (b) Expansion valve is clogged. (c) Valve is stuck closed. (d) Thermal bulb has lost charge.</p>	<p>Replace expansion valve.</p>
<p>6. <b>Faulty Expansion Valve:</b> Insufficient cooling. Sweated suction line.</p>	<p>(a) <b>Suction Pressure:</b> Above normal. (b) <b>Discharge Pressure:</b> Above normal.</p>	<p>(a) Expansion valve allows too much refrigerant through evaporator. (b) Sensing bulb on suction line not well insulated or properly attached to line.</p>	<p>(a) Check valve for operation. If suction side does not show a pressure decrease, replace valve. (b) Check security and insulation on sensing bulb.</p>
<p>7. <b>Faulty Expansion Valve:</b> No cooling. Sweating or frosted suction line.</p>	<p>(a) <b>Suction Pressure:</b> Above normal. (b) <b>Discharge Pressure:</b> Below normal.</p>	<p>Faulty expansion valve.</p>	<p>(a) Discharge system. (b) Replace valve. (c) Evacuate and recharge system.</p>
<p>8. <b>Faulty Condenser:</b> Insufficient cooling. Suction line is very hot.</p>	<p>(a) <b>Suction Pressure:</b> Above normal. (b) <b>Discharge Pressure:</b> Above normal.</p>	<p>Condenser air or refrigerant flow is restricted.</p>	<p>(a) Check condenser for dirt accumulation. (b) Check for refrigerant overcharge. (c) If pressure remains high in spite of all above actions taken, remove and inspect condenser for possible oil clogging.</p>
<p>9. <b>High Pressure Line Blocked:</b> Insufficient cooling. Frosted high-pressure liquid line.</p>	<p>(a) <b>Suction Pressure:</b> Much below normal. (b) <b>Discharge Pressure:</b> Much above normal.</p>	<p>Dryer clogged, or restriction in high-pressure line.</p>	<p>(a) Discharge system. (b) Replace receiver dryer. (c) Evacuate and charge system.</p>

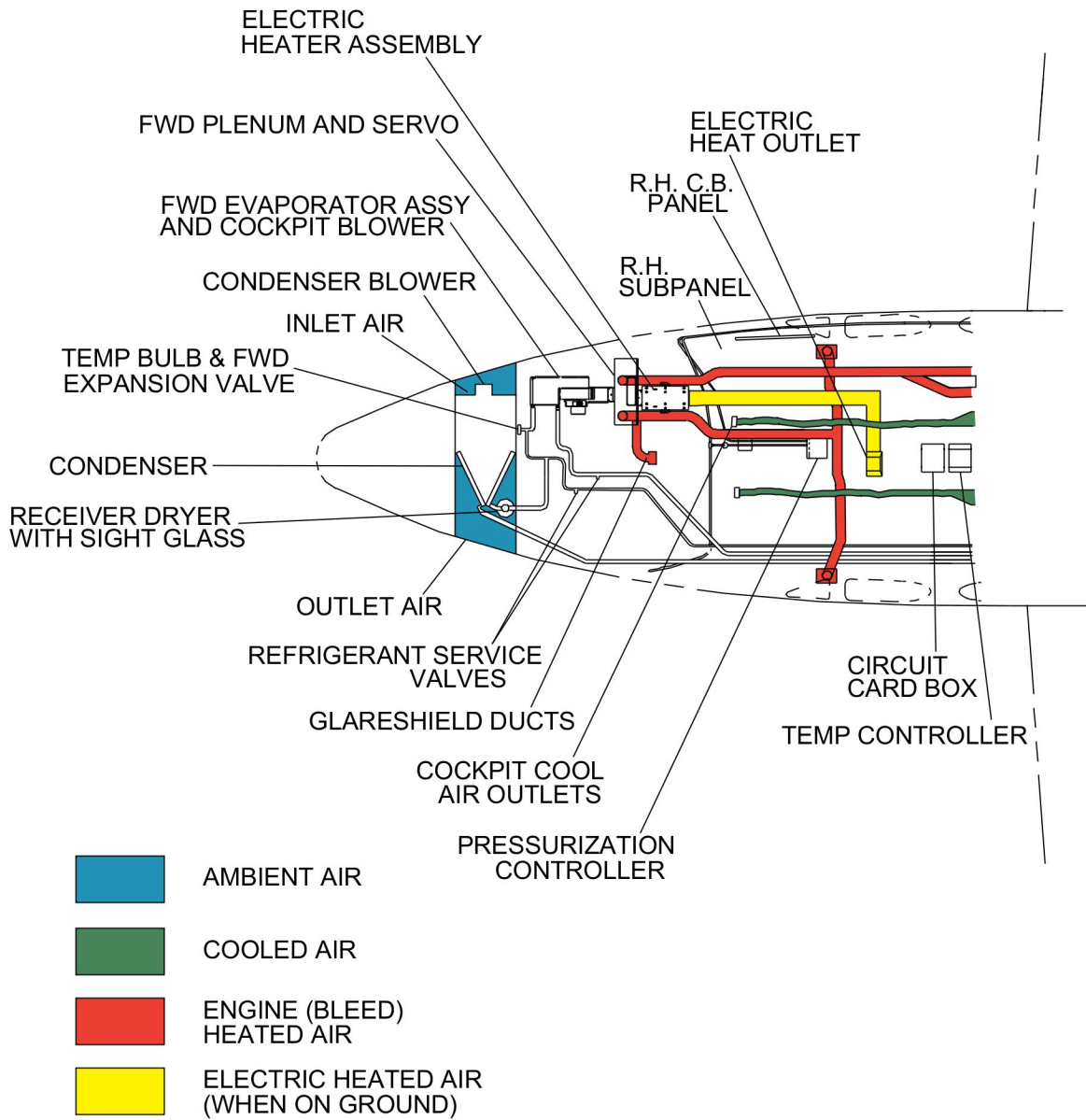
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Table 101. Troubleshooting - Air Conditioning System (continued)

CONDITION	SERVICE PRESSURE GAGE READING	PROBABLE CAUSE	CORRECTIVE ACTION
<p>10. <b>Faulty Compressor:</b> Insufficient cooling.</p>	<p>(a) <b>Suction Pressure:</b> Much below normal.                      (b) <b>Discharge Pressure:</b> Much below normal.</p>	<p>Internal problem in compressor, or damaged gasket and valve.</p>	<p>(a) Discharge system.                      (b) Remove and check compressor.                      (c) Repair or replace compressor.                      (d) Check oil level.                      (e) Replace receiver dryer.                      (f) Evacuate and charge system.</p>
<p>11. <b>Too Much Oil In System:</b> Insufficient cooling.</p>	<p>(a) <b>Suction Pressure:</b> Above normal.                      (b) <b>Discharge Pressure:</b> Above normal.</p>	<p>Too much oil circulates with refrigerant causing the cooling capacity of the system to be reduced.</p>	<p>Check oil level (Ref. 12-10-11, 301).</p>
<p><b>NOTE:</b>                      The Sight glass is located on the receiver/dryer, in the condenser section in the airplane nose.</p>			

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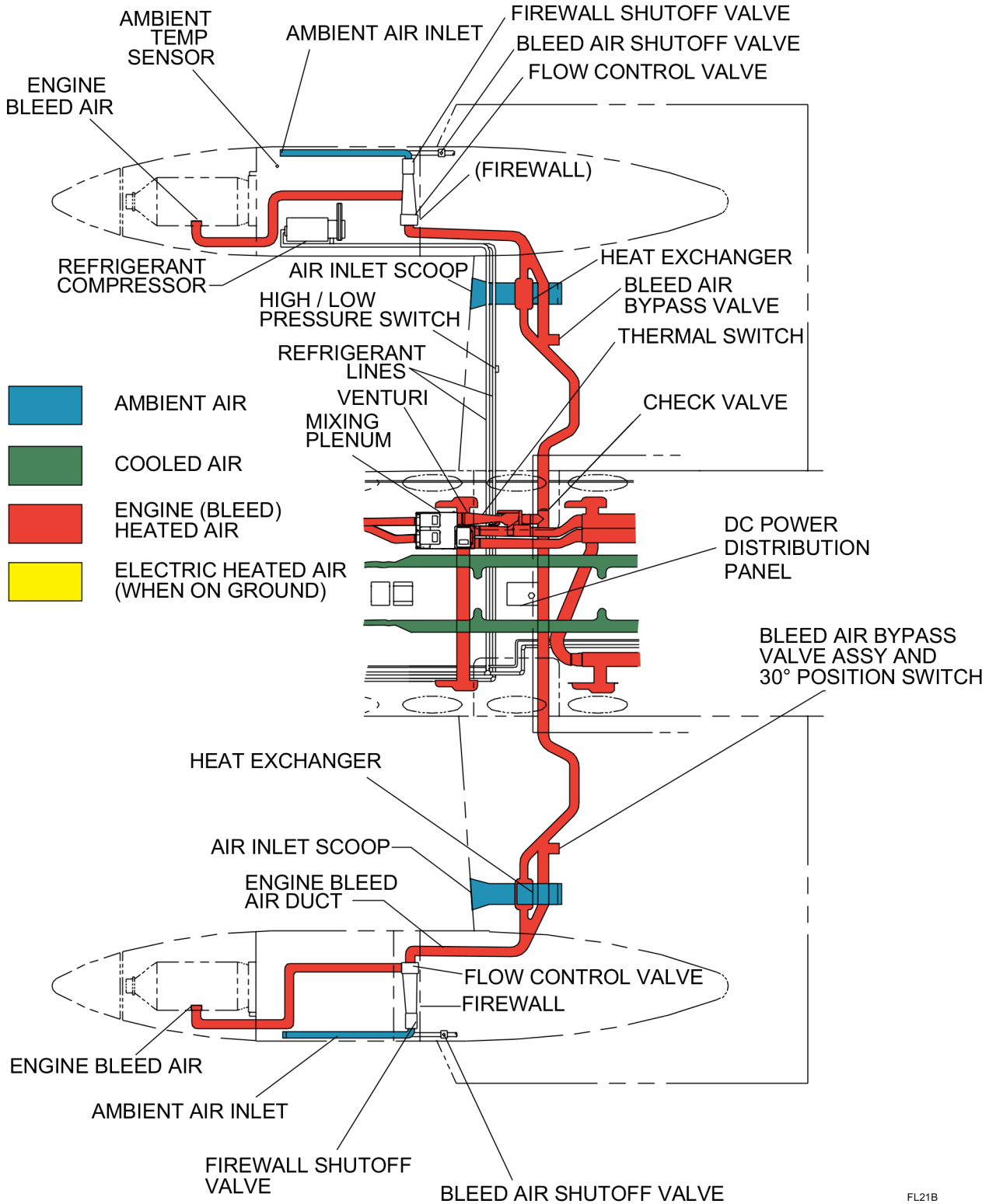


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Environmental System Schematic  
 Figure 101 (Sheet 1)

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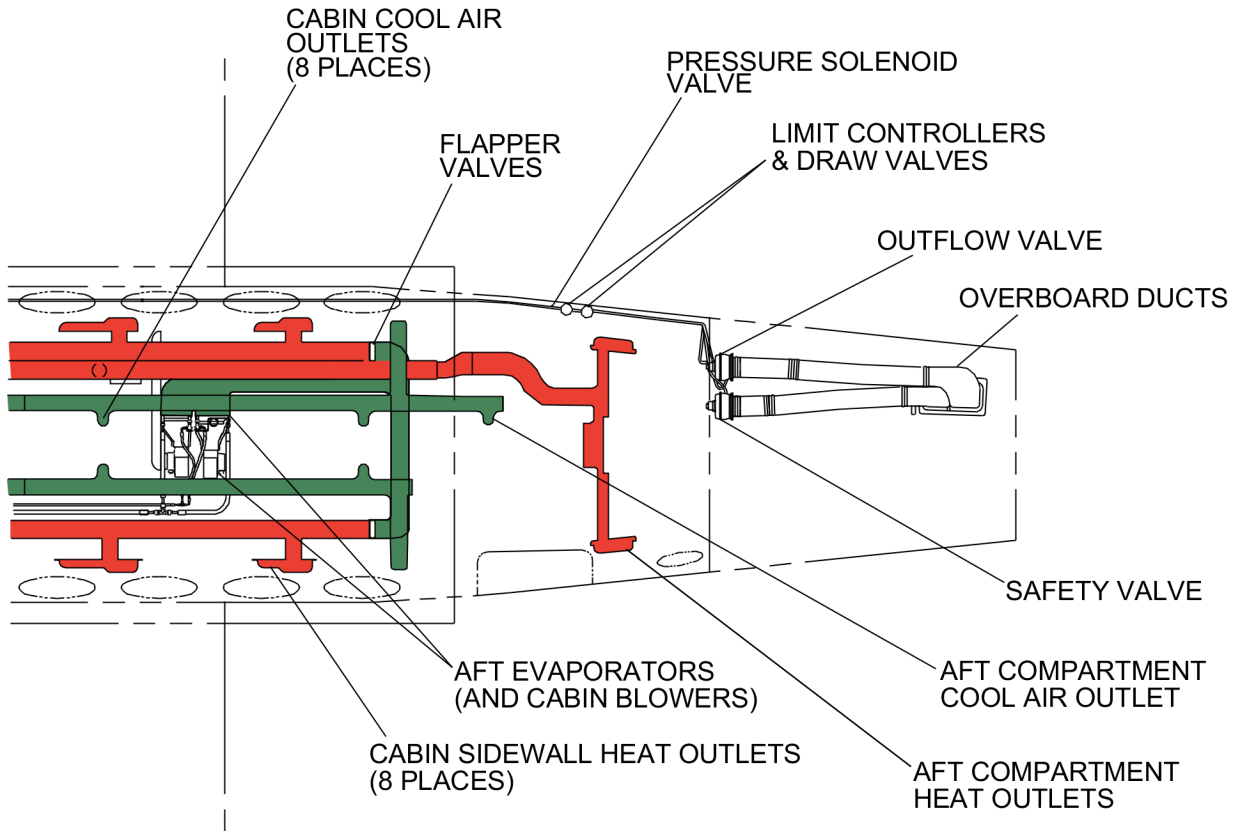


Environmental System Schematic  
 Figure 101 (Sheet 2)

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- AMBIENT AIR
- COOLED AIR
- ENGINE (BLEED) HEATED AIR
- ELECTRIC HEATED AIR (WHEN ON GROUND)

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Environmental System Schematic  
 Figure 101 (Sheet 3)



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MAINTENANCE MANUAL

**COOLING - SERVICING**

■ (FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306; FM-66 thru FM-109)

**1. Cooling**

A. Refrigerant Level Check

Refer to Chapter 12-10-11, 301 to check the refrigerant level.

B. Refrigerant Leak Detection

A reduction of system cooling ability, the continual presence of bubbles in the refrigerant may indicate a partial loss of refrigerant. The sight glass should be checked during system operation at maximum available ambient and cabin temperatures. The sight glass is located on the receiver/dryer in the condenser section in the nose. Streams of bubbles or foam seen in the glass indicate the refrigerant quantity is low.

If a loss of refrigerant is suspected, the system plumbing should be inspected to determine the source of the leak. The system must contain a partial charge in order to detect leaks. Large leaks can be located by the appearance of oily spots where oil has been carried out of the system by escaping refrigerant. Smaller leaks can be detected by a detergent test or by an electronic detector.

The detergent test is accomplished by applying soapy water to an area suspected of leaking with a small brush. If bubbles form and grow, leaks are present.

An electronic detector includes a probe that is moved along the plumbing at a maximum distance of about 1/8 of an inch. Small circular motions along the bottom of the lines and fittings may aid in detecting leaks, since the refrigerant is heavier than the air. The test should be conducted with no ambient airflow around the lines and fittings to disrupt the detection of refrigerant. The probe should be capable of detecting leaks as small as 1/2 ounce per year. The detector should give an audible or visual alarm when escaping refrigerant is detected.





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**AIR CONDITIONING SYSTEM - SERVICING**  
 (FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306; FM-66 thru FM-109)

**1. Information**

Refer to Standard Practices - Airframe Chapter 20-14-00, 201, for information on tools and equipment referenced in Table 301. Refer to Standard Practices - Airframe Chapter 20-15-00, 201, for information on recommended materials referenced in Table 301.

Table 301. Tools/Equipment and Recommended Materials

ITEM	TOOLS AND EQUIPMENT	ITEM	RECOMMENDED MATERIALS
035	Service Valves (R-134a)	02-011	Oil (Air Conditioning)
112	Regulated Vacuum Source(capable of 20 in.Hg)	02-012	Oil (Air Conditioning)
232	Electronic Refrigerant Leak Detector	02-046	Refrigerant Fitting Lubricant
247	Recycling/Recovery Cart	06-009	Solvent
248	Hydrocarbon Leak Detector	09-035	Refrigerant R-134a
		09-037	Refrigerant R-134a Leak Detector
		09-038	Refrigerant R-134a Leak Detector
		09-039	Refrigerant Flush Fluid

**2. Air Conditioning System**

Servicing the air conditioning system consists of periodically checking the refrigerant and oil levels, leak detection, flushing, cleaning, evacuation and charging of the system.

**WARNING: Due to the air quality control regulations enacted in the United States, you are not permitted to vent refrigerant R-134a into the atmosphere. When performing maintenance on the air conditioning system where refrigerant R-134a can escape from the system, evacuate the system with a recovery/recycle service unit that will recover the refrigerant. The air conditioning system is a high pressure system. Before disconnecting a refrigerant line, the system must be discharged with a recovery/recycle service unit. Evacuate the entire system for 15 minutes. Use only R-134a compatible recovery/recycle service unit.**

A. Precautionary Maintenance Instructions

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**WARNING: Eye protection must be worn when servicing the air conditioning system.**

**WARNING: Do not smoke when servicing the refrigerant system. The refrigerant changes to a highly toxic gas when exposed to an open flame.**

- (1) Before attempting any service that requires opening the refrigeration plumbing, service personnel must be thoroughly familiar with the servicing instructions and be certified to operate the recovery or recycle servicing units. These instructions should be followed very carefully when performing the tasks as this will maintain the system in proper functioning order.
- (2) These measures are for safety and to prevent contaminants and moisture from entering the system. Contaminants can cause valve leakage or excessive wear in the compressor. Moisture can freeze into ice at the expansion valves, and can also cause formation of hydrochloric or hydrofluoric acids in the system.
- (3) All components are shipped sealed and dehydrated. They are to remain sealed until just prior to making connections and should be at room temperature before removing the caps and plugs from the ports. This will prevent condensation of moisture from the air that enters the system.
- (4) Do not remove caps and plugs from any component if connections are not to be made within 15 minutes. Reseal any tubes or parts where caps and plugs have been removed if it is determined that the connections will not be made within 15 minutes.
- (5) All precautions must be taken to prevent damage to the fittings or connections. Even minute damage to a connection can cause a leak. Any fittings with dirt or grease should be cleaned with a cloth dampened with isopropyl alcohol. Do not use chlorinated solvents such as trichloroethylene or prechloroethylene as these are considered to be contaminants. If dirt, grease or moisture enters the system and cannot be removed, the contaminated components must be replaced. Use a small amount of fitting lubricant and sealant (02-046, Table 301) or oil on all tubing connections and packings before assembly.

**NOTE:** The receiver-dryer is the last component to be connected. This is necessary to make sure of maximum moisture protection of the refrigerant system. Any time the system is opened to atmosphere, it is recommended that the receiver-dryer be replaced.

B. Air Conditioning Maintenance Notes

**WARNING: Eye protection must be worn when servicing the air conditioning system.**

**WARNING: Do not smoke when servicing the refrigerant system. The refrigerant changes to a highly toxic gas when exposed to an open flame.**

- (1) The air conditioning system is a high pressure system. Before disconnecting a refrigerant line, the system must be discharged with a recovery or recycle servicing unit (247, Table 301). The system must be purged to a 125 micron level.
- (2) Use only the refrigerant for which the system was designed to operate with. Do not mix refrigerants. Other refrigerants, particularly those containing methyl chloride will cause rapid deterioration of the aluminum components.

**CAUTION:** Insufficient tightening can result in loose connections. Excessive tightening can result in deformed connecting parts. Either condition can result in refrigerant leakage.

- (3) When connecting aluminum fittings in the refrigerant system, torque all 5/8 inch fittings to 12.5 ± 2.5 foot pounds, all 3/4 inch fittings to 17.5 ± 2.5 foot pounds, all 7/8 inch fittings to 25 ± 5 foot pounds, and all 1-1/16 inch fittings to 30 ± 5 foot pounds.

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- (4) The typical order of operations when opening the system for component replacement or full gas replacement or servicing is as follows;
  - (a) Initial Leak Check (Optional, if a leak is suspected the system should be leak checked as a first step.)
  - (b) Reclamation of Refrigerant.
  - (c) Flushing (Optional, typically required if the system is suspected of contaminants or if the amount of oil in the system is suspected of being incorrect.)
  - (d) Replacement of components and performing repair work as necessary.
  - (e) Oil fill
  - (f) Evacuation
  - (g) Charging the System

C. Air Conditioning System Refrigerant and Oil Capacities

**NOTE:** Refer to Table 302. The table column identified as (1) is the total quantity of oil in fluid ounces in the system, (2) is the quantity of oil in fluid ounces charged to a new compressor before it is shipped, (3) is the quantity of oil in fluid ounces which must be added to the system before initial operation.

If simple conversions have been accomplished (Refrigerant change without compressor change) rely on kit instructions for proper servicing levels. If compressor type changes have occurred rely on applicable kit directions which should meet the serial group class for refrigerant type used (Ref. Table 302).

Table 302. Air Conditioning System Refrigerant Capacities

Serial Group	Refrig. Type	Sys. Refrig. Qty., Pounds	Oil Type	(1)Sys. Oil Qty., Fl. Oz.	(2)New Comp. Oil, Fl. Oz.	(3)Add. Oil, Fl. Oz.
FL and FM	R-134a	3.5	POE ISO68	11 (Note 1) 17 (Note 2)	8 (All)	3 (Note 1) 9 (Note 2)

**NOTE:**

- 1. Airplanes equipped with part number 201-0450-2 air conditioning compressors.
- 2. Airplanes equipped with part number 201-0450-3 air conditioning compressors.

D. Checking the Refrigerant Level

- (1) The only way to make sure of a proper charge of R-134a systems is to recover the refrigerant currently in the system and to recharge with the proper amount of refrigerant.

E. Checking the Oil Level

- (1) Measuring the oil accurately for in-service air conditioning systems is not possible. If the oil level is suspected to be incorrect, the system should be evacuated, flushed and then serviced back to correct levels.

F. Leak Detection

- (1) If a loss of refrigerant is suspected, the plumbing system should be inspected to determine the source of the leak.
- (2) Visual leak detection can be used to locate large leaks. Large leaks will typically show as an oil spot around the leak due to the oil being carried out by the escaping refrigerant.
- (3) Detergent leak detection is performed by applying a water and detergent solution to the suspected area. Bubbles may form if leaks are present. The system should have a pressure greater than 50 PSI for this method to work. For new or empty systems, they can be pressurized with dry nitrogen for purposes of leak checking.
- (4) Electronic leak checking is performed by using an electronic leak detector. Either a R-134a detector (232, Table 301) or a more sensitive hydrocarbon detector (248, Table 301) can be used. The hydrocarbon detector can only be used on a new or empty system, as the system will be charged to a pressure greater than 50 PSI using a blend of 95% nitrogen and 5% hydrocarbon for leak detection purposes.

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G. Reclamation of Refrigerant

**WARNING: Due to the air quality control regulations enacted in the United States, you are not permitted to vent refrigerant R-134a into the atmosphere. When performing maintenance on the air conditioning system where refrigerant R-134a can escape from the system, evacuate the system with a recovery/recycle service unit that will recover the refrigerant.**

Use a recovery/recycle service unit to depressurize the refrigerant system. A qualified air conditioning serviceman is required to operate the service equipment. Refrigerant service ports are located on the left side of the nose wheel well. Service ports are provided so the air conditioning system can be serviced without the necessity of working close to the propellers with the engines running (Ref. Figure 301).

- (1) Connect the recovery/recycle service unit to the service valves on the airplane (Ref. Figure 301).
- (2) If possible, operate the air conditioning system for five minutes. This will collect as much oil as possible in the compressor.
- (3) Turn off the air conditioning system and take note of oil level on the refrigerant recovery/recycle service unit.
- (4) Discharge the air conditioning system in accordance with the recovery/recycle service unit's instructions.
- (5) Note the amount of compressor oil removed from the system during discharging. If a complete flushing of the system is not performed, this amount of oil will need to be added back to the system during charging.
- (6) Disconnect and remove the recovery/recycle service unit when discharging is complete.

H. Cleaning/Flushing of the Air Conditioning System

Flushing of the system is necessary when removing all oil or suspected contamination. The following procedures replace the expansion valves, receiver/dryer and additional fittings with temporary flushing fixtures. Equivalents may be substituted based on local availability and preference.

- (1) Reclaim all refrigerant from the air conditioning system (Ref. Paragraph 1.G.).
- (2) Remove the air conditioning compressor from the airplane (Ref. 21-51-03, 401).
- (3) Remove the oil from the compressor by placing it in an inverted position and allowing the oil to drain for a minimum of one hour.

**NOTE:** Four hours is the recommended time for maximum oil removal.

- (4) Remove the cockpit and cabin expansion valves (Ref. 21-51-23, 401), along with their respective thermal coils and pressure lines (Ref. Figure 302, Details A and B).

**NOTE:** It is recommended to replace the seal on plumbing fittings when the joint has been opened. Note the manufacturer code on the side of the fitting to determine the correct replacement seals.

- (5) Install a reducing union elbow in place of each of the expansion valves. Install a cap on each of the open fittings on the suction tube assemblies.
- (6) Remove the receiver/dryer from the airplane (Ref. 21-51-17, 401). Install a 129-550140-1 tube in place of the receiver/dryer.
- (7) Replace any components that require replacement before flushing the system. This is to make sure that all new components are also serviced with the correct oil.
- (8) Remove the discharge (high pressure) tee located in the nose wheel well and connect the condenser hose and the forward evaporator hose together with a JBS6009-6 union. Install a plug in the remaining (aft evaporator) hose end fitting (Ref. Figure 301, Detail A).
- (9) Remove cabin floorboard 151BTL from the left side of the cabin, forward of the main spar (Ref. 06-50-00).

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- (10) Remove the suction (low pressure) tee located forward of the main spar and install a JBS6009-3 union from the forward evaporator to the compressor suction line (Ref. Figure 303, Detail A). Install a plug in the remaining (aft evaporator) open hose end fitting.
- (11) At the right engine nacelle, connect the flushing cart discharge hose to the compressor discharge (high pressure) hose and the pressure hose to the compressor suction (low pressure) hose.
- (12) Fill the flushing cart reservoir with approximately five gallons of flush fluid (09-039, Table 301). If the reservoir capacity is less than five gallons, fill the reservoir to capacity, turn the flushing cart on to begin pumping fluid into the system and continue to add fluid to the flushing cart reservoir until all five gallons of fluid is pumped into the system.
- (13) Run the flushing cart for a minimum of 10 minutes.
- (14) Reverse the flow direction by switching the flush cart hose connections at the right engine nacelle and running the cart again for a minimum of 10 minutes.
- (15) Reverse the flow direction a second time by switching the flush cart connections at the right engine nacelle. Run the flush cart again for a minimum of 10 minutes.
- (16) After the flushing process has been completed, disconnect the flushing cart at the right engine nacelle and purge the system of flush fluid using pressurized shop air.
- (17) After the system has been purged of flush fluid with pressurized shop air, purge the system with dry nitrogen for a period of 20 minutes.
- (18) At the JBS6009-6 union installed in Step (8), remove the plug from the aft evaporator hose end. Disconnect the forward evaporator hose end from the JBS6009-6 union and connect the aft evaporator hose to the union. Install the plug in the open end of the forward evaporator hose.
- (19) At the JBS6009-3 union installed in Step (10), remove the plug from the aft evaporator hose end. Disconnect the forward evaporator hose end from the JBS6009-3 union and connect the aft evaporator hose to the union. Install the plug in the open end of the forward evaporator hose.

**NOTE:** There are two aft evaporators. For instructional purposes, these will be referred to as the front aft evaporator and the rear aft evaporator.

- (20) Remove the two tee fittings between the high and low pressure lines of the two aft evaporators (Ref. Figure 303, Detail B). Install one JBS6009-9 union and one JBS6009-3 union in the front aft evaporator hose ends. Connect the high and low pressure hoses to the two unions. Install pugs in the open ends of the rear evaporator hoses.
- (21) At the right engine nacelle, connect the flushing cart discharge hose to the compressor discharge (high pressure) hose and the pressure hose to the compressor suction (low pressure) hose.
- (22) Fill the flushing cart reservoir with approximately five gallons of flush fluid (09-039, Table 301). If the reservoir capacity is less than five gallons, fill the reservoir to capacity, turn the flushing cart on to begin pumping fluid into the system and continue to add fluid to the flushing cart reservoir until all five gallons of fluid is pumped into the system.
- (23) Run the flushing cart for a minimum of 10 minutes.
- (24) Reverse the flow direction by switching the flush cart hose connections at the right engine nacelle and running the cart again for a minimum of 10 minutes.
- (25) Reverse the flow direction a second time by switching the flush cart connections at the right engine nacelle. Run the flush cart again for a minimum of 10 minutes.
- (26) After the flushing process has been completed, disconnect the flushing cart at the right engine nacelle and purge the system of flush fluid using pressurized shop air.
- (27) After the system has been purged of flush fluid with pressurized shop air, purge the system with dry nitrogen for a period of 20 minutes.
- (28) Remove the JBS6009-6 and JBS6009-3 unions installed in the front aft evaporator hoses in Step (20). Remove the plugs from the rear aft evaporator hoses and install the JBS6009-6 and JBS6009-3 unions in the rear aft evaporator hoses. Install the plugs in the open ends of the front aft evaporator hoses.
- (29) At the right engine nacelle, connect the flushing cart discharge hose to the compressor discharge (high pressure) hose and the pressure hose to the compressor suction (low pressure) hose.
- (30) Fill the flushing cart reservoir with approximately five gallons of flush fluid (09-039, Table 301). If the reservoir capacity is less than five gallons, fill the reservoir to capacity, turn the flushing cart on to begin pumping fluid into the system and continue to add fluid to the flushing cart reservoir until all five gallons of fluid is pumped into the system.
- (31) Run the flushing cart for a minimum of 10 minutes.

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- (32) Reverse the flow direction by switching the flush cart hose connections at the right engine nacelle and running the cart again for a minimum of 10 minutes.
- (33) Reverse the flow direction a second time by switching the flush cart connections at the right engine nacelle. Run the flush cart again for a minimum of 10 minutes.
- (34) After the flushing process has been completed, disconnect the flushing cart at the right engine nacelle and purge the system of flush fluid using pressurized shop air.
- (35) After the system has been purged of flush fluid with pressurized shop air, purge the system with dry nitrogen for a period of 20 minutes.
- (36) Remove the JBS6009-6 and JBS6009-3 fittings from the rear aft evaporator hoses and the plugs installed in the front aft evaporator hoses. Install the two tee fittings that were removed in Step (20) (Ref. Figure 303, Detail B).
- (37) Remove the elbows and caps installed in Step (5) and install the expansion valves (Ref. 21-51-23, 401)
- (38) Remove the JBS6009-6 union installed in Step (8) and the plug installed in the forward evaporator hose end. Connect the three hose ends to the discharge (high pressure) tee removed in Step (8) (Ref. Figure 301, Detail A).
- (39) Remove the JBS6009-3 union installed in Step (10) and the plug installed in the forward evaporator hose end. Connect the three hose ends to the suction (low pressure) tee removed in Step (10) (Ref. Figure 303, Detail A).
- (40) Purge the entire system using pressurized shop air. After purging the system with shop air, purge the system again using dry nitrogen for a period of 20 minutes. During this time, cycle the hot gas bypass purging valve for five minutes.
- (41) Install the air conditioning compressor (Ref. 21-51-03, 401). Make sure that the compressor has the correct amount of oil upon installation.
- (42) Remove the 129-550140-1 tube and install the receiver/dryer (Ref. 21-51-17, 401).
- (43) Additional purging of individual components is accomplished as follows:
  - (a) Isolate the forward evaporator. Purge the forward evaporator through the discharge line with 2 to 10 PSI of dry nitrogen until dry. Collect any flushing fluid coming from the suction line.
  - (b) Isolate the condenser. Purge the condenser through the top fitting with 2 to 10 PSI of dry nitrogen until dry. Collect any flushing fluid coming from the lower fitting.
  - (c) Replace the soft seals in the forward evaporator and condenser coil line fittings and reconnect both components.
  - (d) Isolate the front aft evaporator. Purge the front aft evaporator through the discharge fitting line with 2 to 10 PSI of dry nitrogen until dry. Collect any flushing fluid coming from the suction line.
  - (e) Replace the soft seals in the front aft evaporator and connect the two hoses.
  - (f) Isolate the rear aft evaporator. Purge the rear aft evaporator through the discharge fitting line with 2 to 10 PSI of dry nitrogen until dry. Collect any flushing fluid coming from the suction line.
  - (g) Replace the soft seals in the rear aft evaporator and connect the two hoses.

I. Evacuating

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**WARNING:** Due to the air quality control regulations enacted in the United States, you are not permitted to vent refrigerant R-134a into the atmosphere. When performing maintenance on the air conditioning system where refrigerant R-134a can escape from the system, evacuate the system with a recovery/recycle service unit that will recover the refrigerant.

**WARNING:** The air conditioning system is a high pressure system. Before any refrigerant lines are disconnected, the system must be discharged with a recovery/recycle service unit.

**NOTE:** Evacuating the system will remove any moisture from the system. The system must be evacuated prior to charging the system with refrigerant.

**NOTE:** The vacuum unit (112, Table 301) must be capable of obtaining an absolute pressure of 125 microns or less and the gauges used must be capable of indicating an absolute pressure of 125 microns or less.

- (1) Connect the recovery/recycle unit (247, Table 301) to the service valves located in the nose wheel well. If recovery/recycle unit does not have pressure gages, connect service pressure gages to the air conditioning system (Ref. Figure 301).
- (2) Start the vacuum pump (112, Table 301) and slowly open the vacuum valve until it is fully open.
- (3) Open the ballast valve on the vacuum pump slightly. Allow the vacuum pump to run in this manner for a minimum of one hour. Four hours is recommended to make sure that all of the moisture in the system has had time to boil off and evacuate through the vacuum pump.
- (4) Close the ballast valve and evacuate the system to 125 microns or less.
- (5) Close the service valves and turn off the vacuum pump. The system should hold vacuum if there are no leaks in the system.

J. Oil Fill

As measurement of the oil level is not possible for an in-service system, care must be taken to properly flush and fill the system with a known amount when the system's current amount is unknown. If the amount of oil in the system is known, then servicing can be accomplished by adding back to the system any amount of oil removed and measured during the reclamation procedure and the amount of oil drained from any related components.

- (1) Compressor Oil Charge
  - (a) In R-134a systems, new compressors use oil (02-011, Table 301) or (02-012, Table 301) and are charged with R-134a refrigerant (09-035, Table 301) and dry nitrogen to provide a pressure that is slightly above atmospheric pressure.
  - (b) As the amount of oil may vary, all compressors should be drained by inverting on the bench for a minimum of one hour to make sure that the correct amount of oil is added in the next step. The recommended draining time period is four hours.
  - (c) Refill the drained compressor with the amount and type of oil specified in Table 302.
- (2) System Oil Charge
  - (a) The remainder of the oil charge should be placed into the system either prior to evacuation or using the service cart oil charge port if available.
  - (b) If the oil is placed into the system prior to the evacuation procedure, care should be taken to not vacuum out the oil during the evacuation procedure, either by adding the oil across multiple components in the system or by adding it to one service port and applying vacuum on the other.

K. Charging



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**WARNING:** Due to the air quality control regulations enacted in the United States, you are not permitted to vent refrigerant R-134a into the atmosphere. When performing maintenance on the air conditioning system where refrigerant R-134a can escape from the system, evacuate the system with a recovery/recycle service unit that will recover the refrigerant.

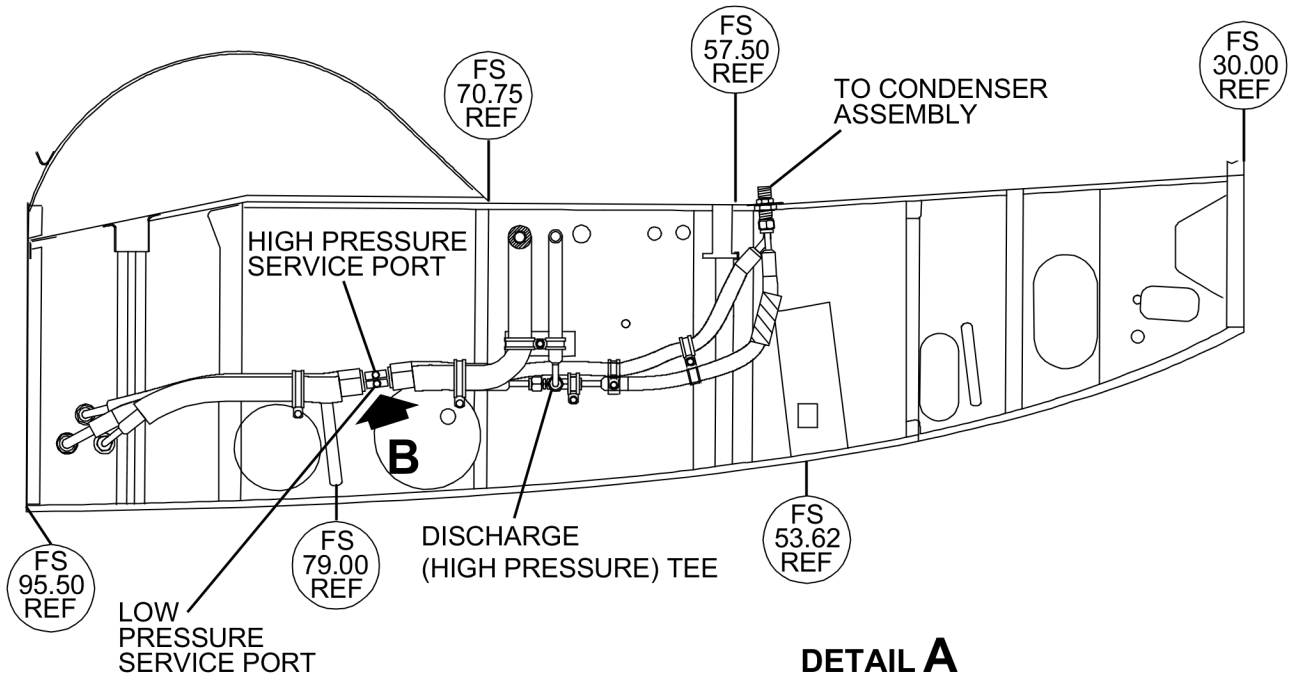
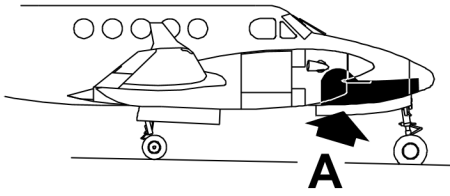
**WARNING:** The air conditioning system is a high pressure system. Before any refrigerant lines are disconnected, the system must be discharged with a recovery/recycle service unit.

Use a recovery/recycle service unit to charge the refrigerant system. A qualified air conditioning serviceman is required to operate the service equipment. Refrigerant service ports are located on the left side of the nose wheel well. Service ports are provided so the air conditioning system can be serviced without the necessity of working close to the propellers with the engines running (Ref. Figure 301).

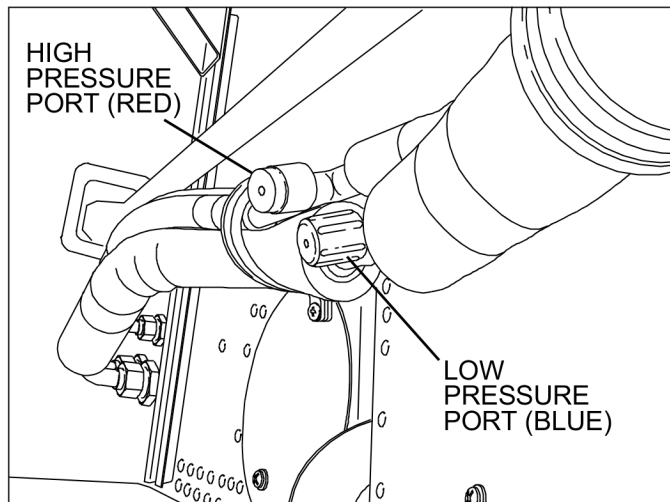
- (1) Connect the recovery/recycle service unit to the service valves on the airplane.
- (2) Perform the EVACUATING THE AIR CONDITIONING SYSTEM procedure (Ref. Paragraph 2.I.).
- (3) Perform the OIL FILL procedure (Ref. Paragraph 2.J).
- (4) Charge the air conditioning system in accordance with the recovery/recycle service unit's instructions to the required capacity (Ref. Table 302).
- (5) Disconnect and remove the recovery/recycle service unit when charging is complete.

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**DETAIL A**  
 VIEW LOOKING OUTBOARD AT  
 LEFT NOSE WHEEL WELL SIDE WALL



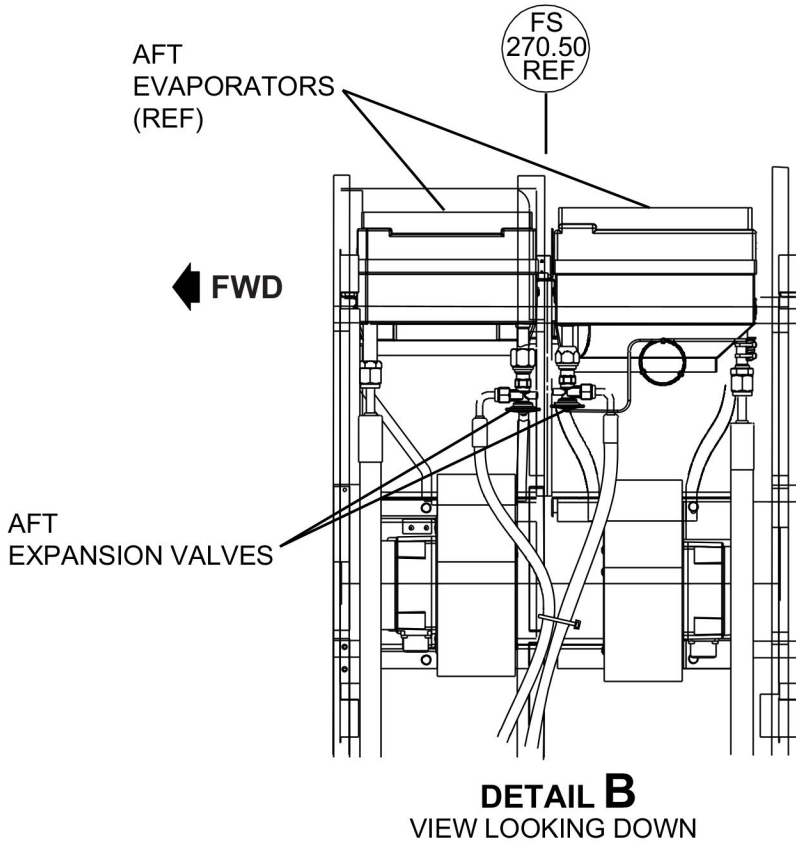
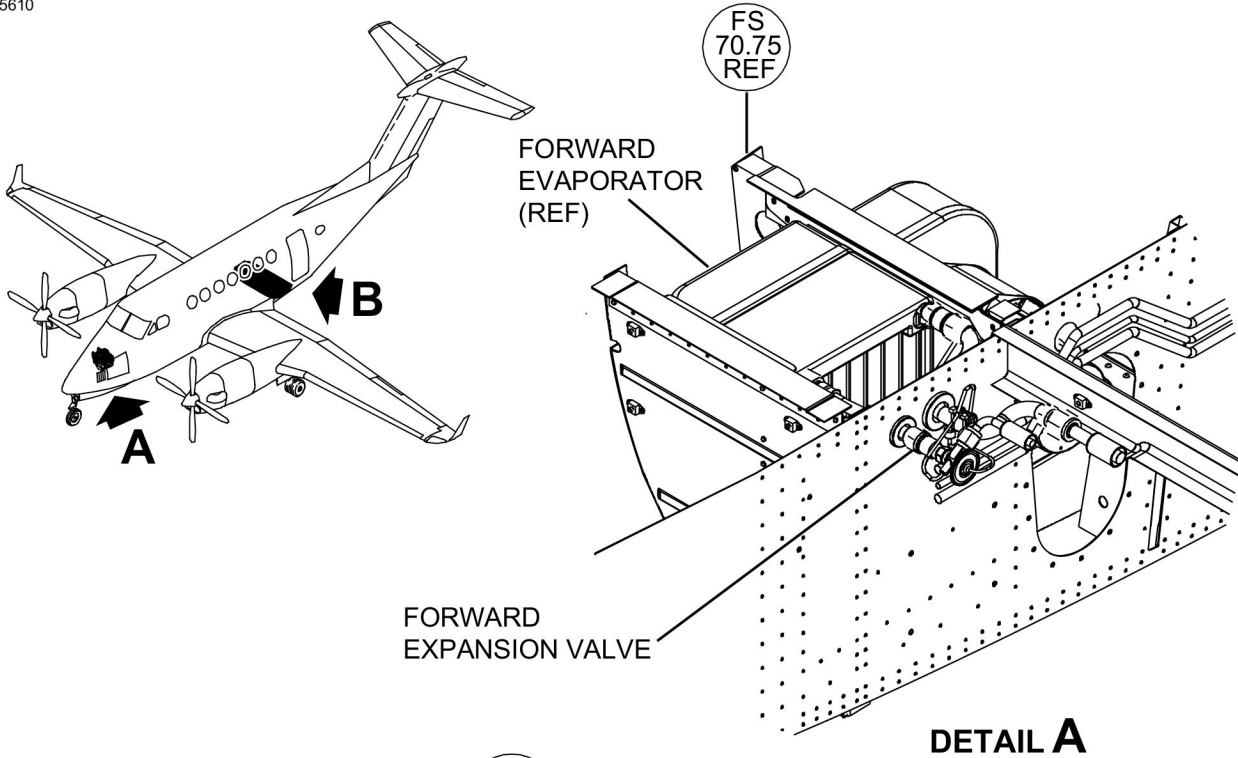
**DETAIL B**

Nose Wheel Well Service Valves  
 Figure 301 (Sheet 1)

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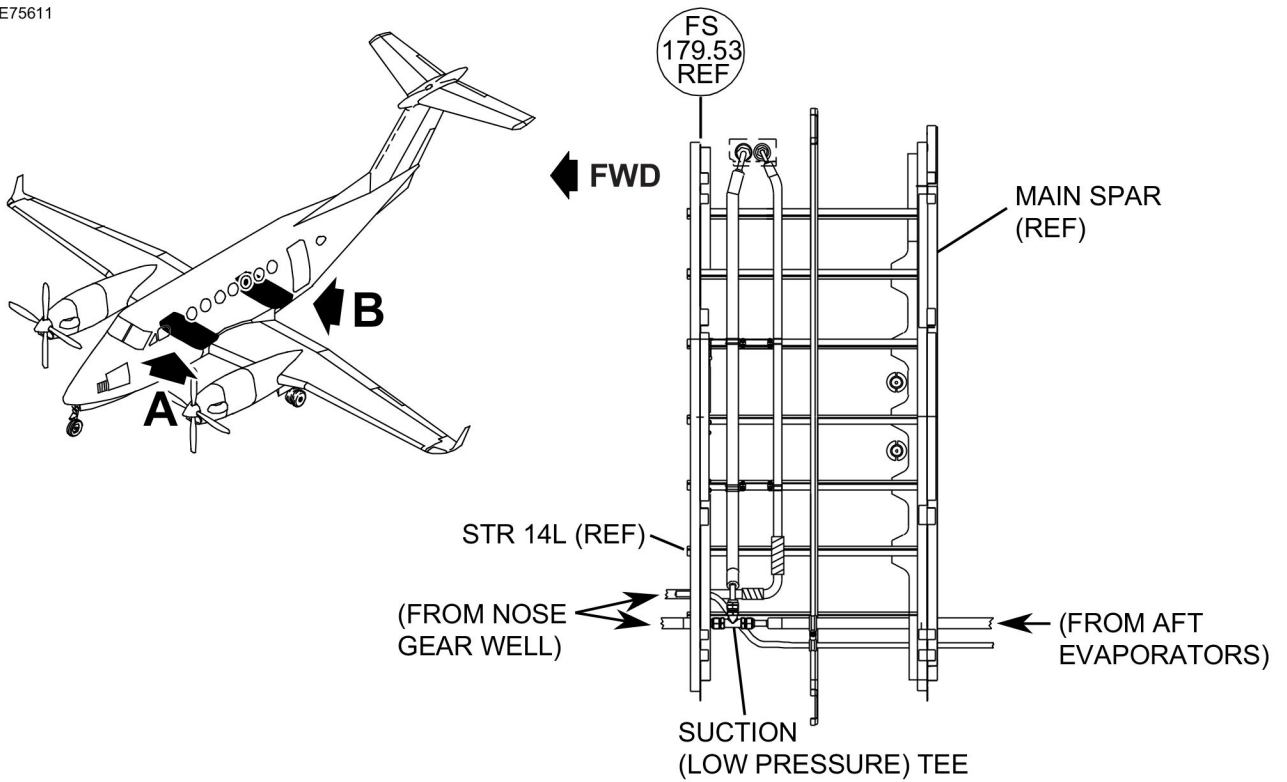
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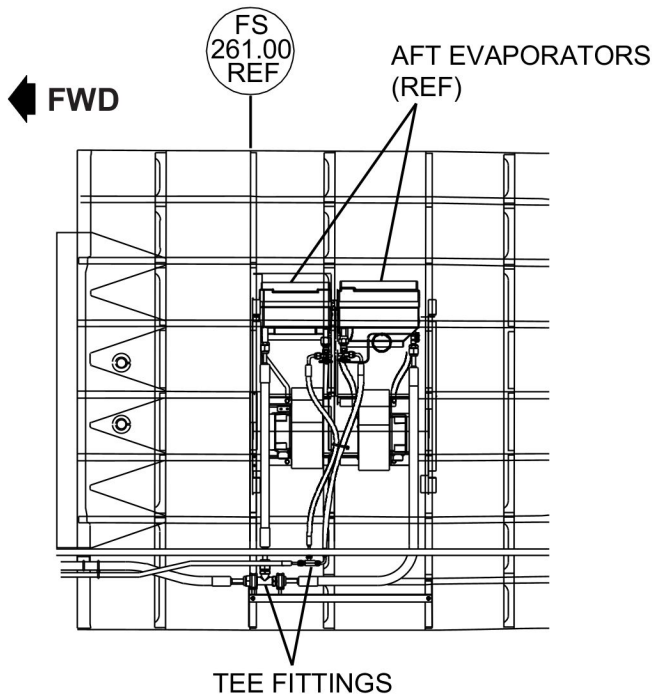
Expansion Valve Locations  
 Figure 302 (Sheet 1)

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**DETAIL A**  
 VIEW LOOKING DOWN



**DETAIL B**  
 VIEW LOOKING DOWN

Tee Fitting Locations  
 Figure 303 (Sheet 1)



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MAINTENANCE MANUAL

**COMPRESSOR - SERVICING**

**(FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306; FM-66 thru FM-109)**

**1. Information**

Refer to Standard Practices - Airframe Chapter 20-14-00, 201, for information on tools and equipment referenced in Table 301. Refer to Standard Practices - Airframe Chapter 20-15-00, 201, for information on recommended materials referenced in Table 301.

Table 301. Tools/Equipment and Recommended Materials

ITEM	TOOLS AND EQUIPMENT	ITEM	RECOMMENDED MATERIALS
		02-018	Lubricating Paste
		06-005	Dry Cleaning Solvent

**2. Compressor Quill Shaft**

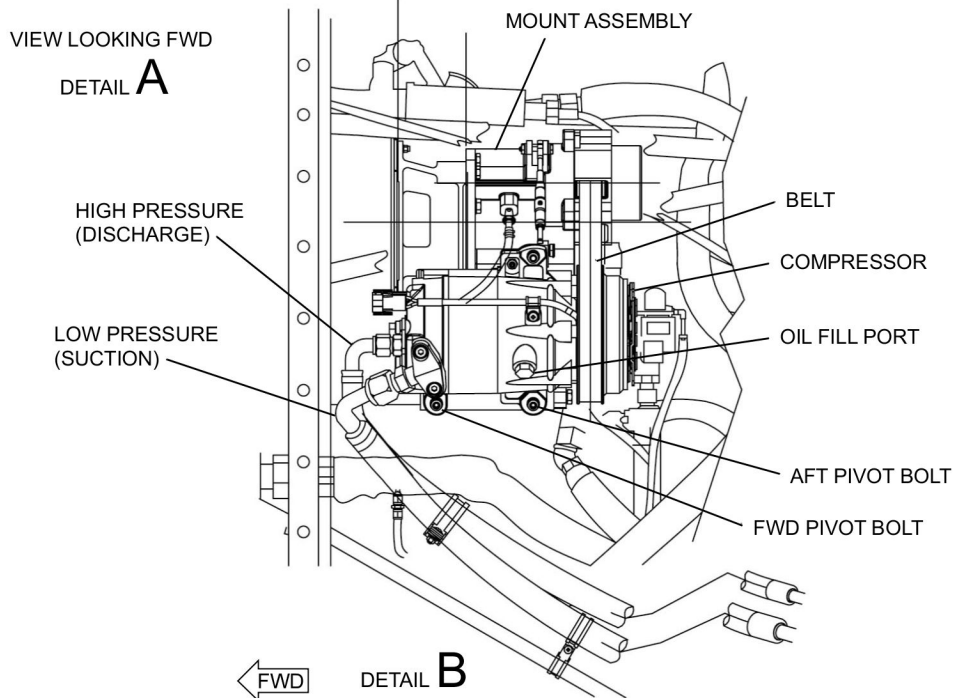
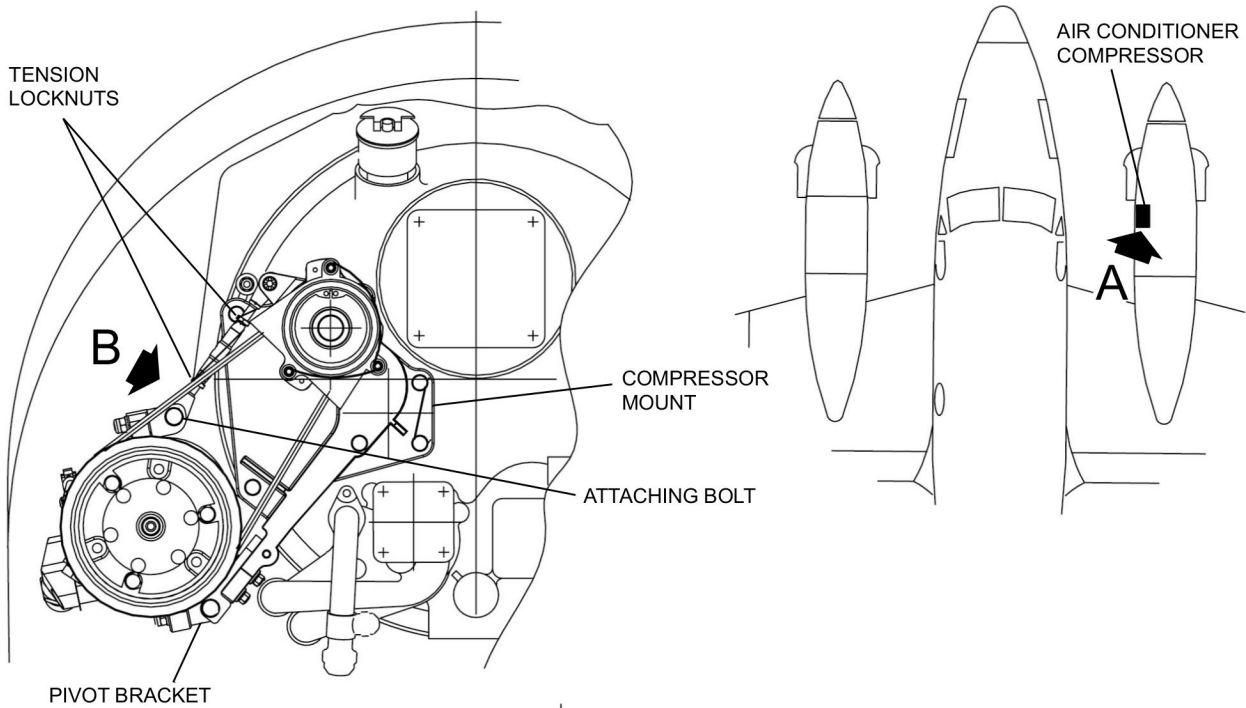
A. Lubrication

The quill shaft that provides the drive for the air-conditioning compressor should be lubricated at the interval specified in Chapter 05.

- (1) Perform the COMPRESSOR BELT REMOVAL procedure (Ref. 21-51-05, 401) make sure to retain the spacer and shim between the belt housing and the drive pulley (Ref. Figure 301).
- (2) Remove the drive pulley, bearings and quill shaft.
- (3) Clean the end of the quill shaft with a clean cloth moistened with dry cleaning solvent (06-005, Table 301) and dry the quill shaft with shop air.
- (4) Lubricate the compressor end of the quill shaft with a thin even coat of lubricating paste (02-018, Table 301).
- (5) Install the quill shaft, packing, washer, drive pulley and bearings.
- (6) Perform the COMPRESSOR BELT INSTALLATION procedure (Ref. 21-51-05, 401) to install the compressor drive belt, compressor drive pulley, spacer and shim, and drive belt housing.

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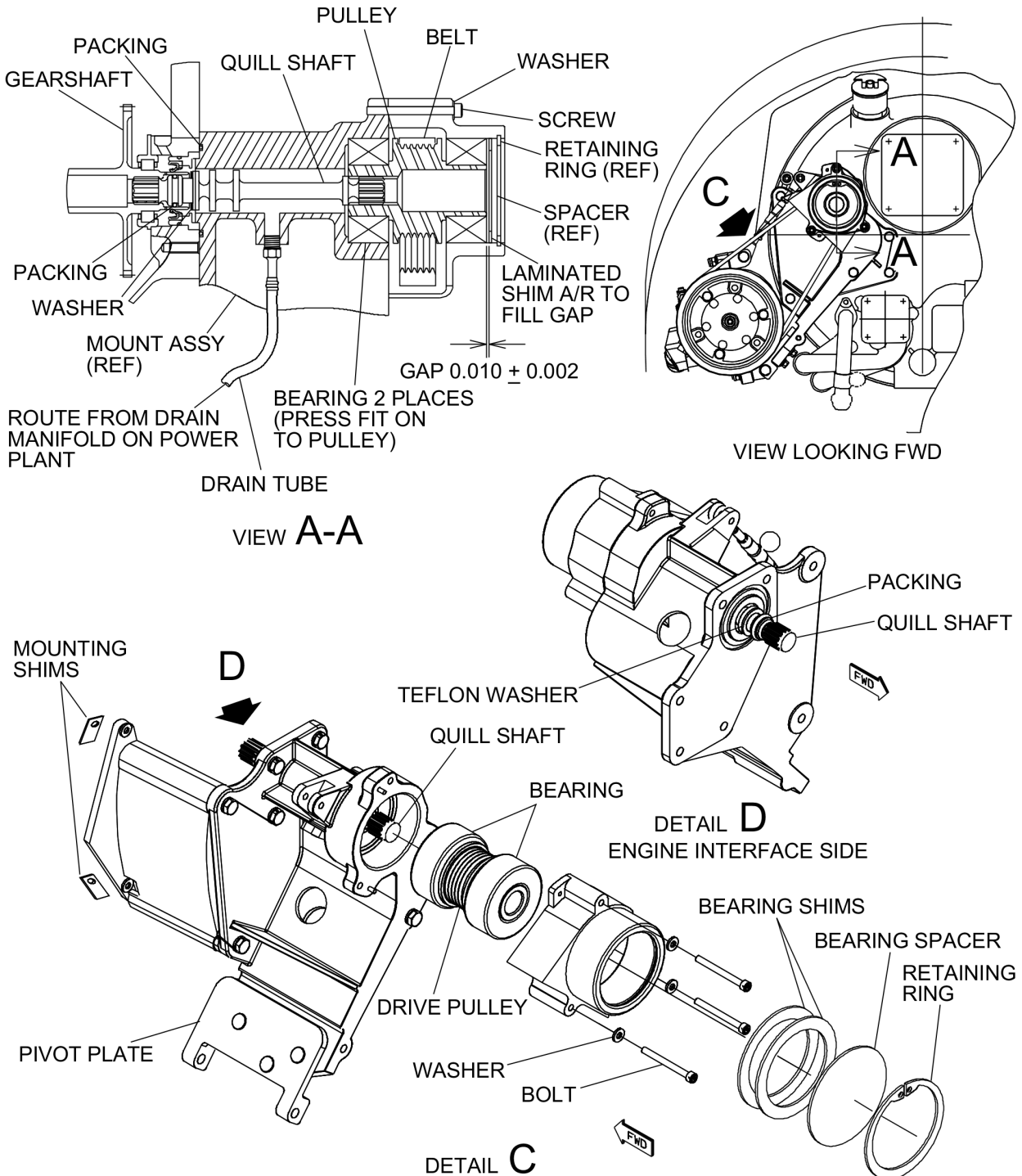


Compressor Quill Shaft Lubrication  
 Figure 301 (Sheet 1)

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Compressor Quill Shaft Lubrication  
 Figure 301 (Sheet 2)





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**COMPRESSOR - REMOVAL/INSTALLATION**  
 (FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306; FM-66 thru FM-109)

**1. Information**

Refer to Standard Practices - Airframe Chapter 20-14-00, 201, for information on tools and equipment referenced in Table 401. Refer to Standard Practices - Airframe Chapter 20-15-00, 201, for information on recommended materials referenced in Table 401.

Table 401. Tools/Equipment and Recommended Materials

ITEM	TOOLS AND EQUIPMENT	ITEM	RECOMMENDED MATERIALS
		09-044	Lockwire

**2. Compressor**

**A. Removal**

- (1) Open the inboard cowling door on the right side engine nacelle to gain access to the compressor (Ref. Figure 401).
- (2) Using the service valves on the forward end of the compressor, slowly discharge the system with the recovery/recycle service unit until all pressure is bled off.
- (3) Disconnect the electrical leads from the compressor clutch.
- (4) Disconnect the high pressure (discharge) hose and the low pressure (suction) hose from the compressor by removing the metric bolt securing the retaining plate and adapters to the compressor. Discard the packings and cap or plug all open lines and fittings.
- (5) Cut the lockwire on the aft pivot bolt, then loosen both pivot bolts, the tension adjuster lock nuts and lower attaching bolt.
- (6) Remove the bolt attaching the drive belt tension adjuster to the compressor.
- (7) Remove the drive belt from the compressor.
- (8) Remove the aft pivot bolt and the forward pivot bolt and nut.

**NOTE:** Note the number of compressor aligning shims and their respective locations to aid in aligning the compressor pulley with the drive pulley when installing the compressor.

**CAUTION:** Bolts securing the mounting plate and tension adjuster plate on the compressor are metric.

- (9) If the compressor is to be replaced, remove the mounting plate and tension adjuster plate.

**B. Installation**

**CAUTION:** Bolts securing the mounting plate and tension adjuster plate on the compressor are metric.

- (1) If not installed, install the mounting plate and tension adjuster plate with metric bolts. Torque the bolts between 60 to 86 inch-pounds and lock with lockwire (09-044, Table 401) (Ref. Figure 401).
- (2) Install the compressor on the compressor mount with the compressor pulley aligning shims installed in locations from which they were removed. Install the forward and aft pivot bolts but do not tighten until the belt has been installed.
- (3) Install the drive belt on the compressor.

**NOTE:** If the compressor clutch pulley is not parallel with the drive pulley, loosen the pivot mount attaching bolts slightly and align the pulleys by turning the adjusting bolt. When alignment is obtained, tighten the pivot mount attaching bolts.

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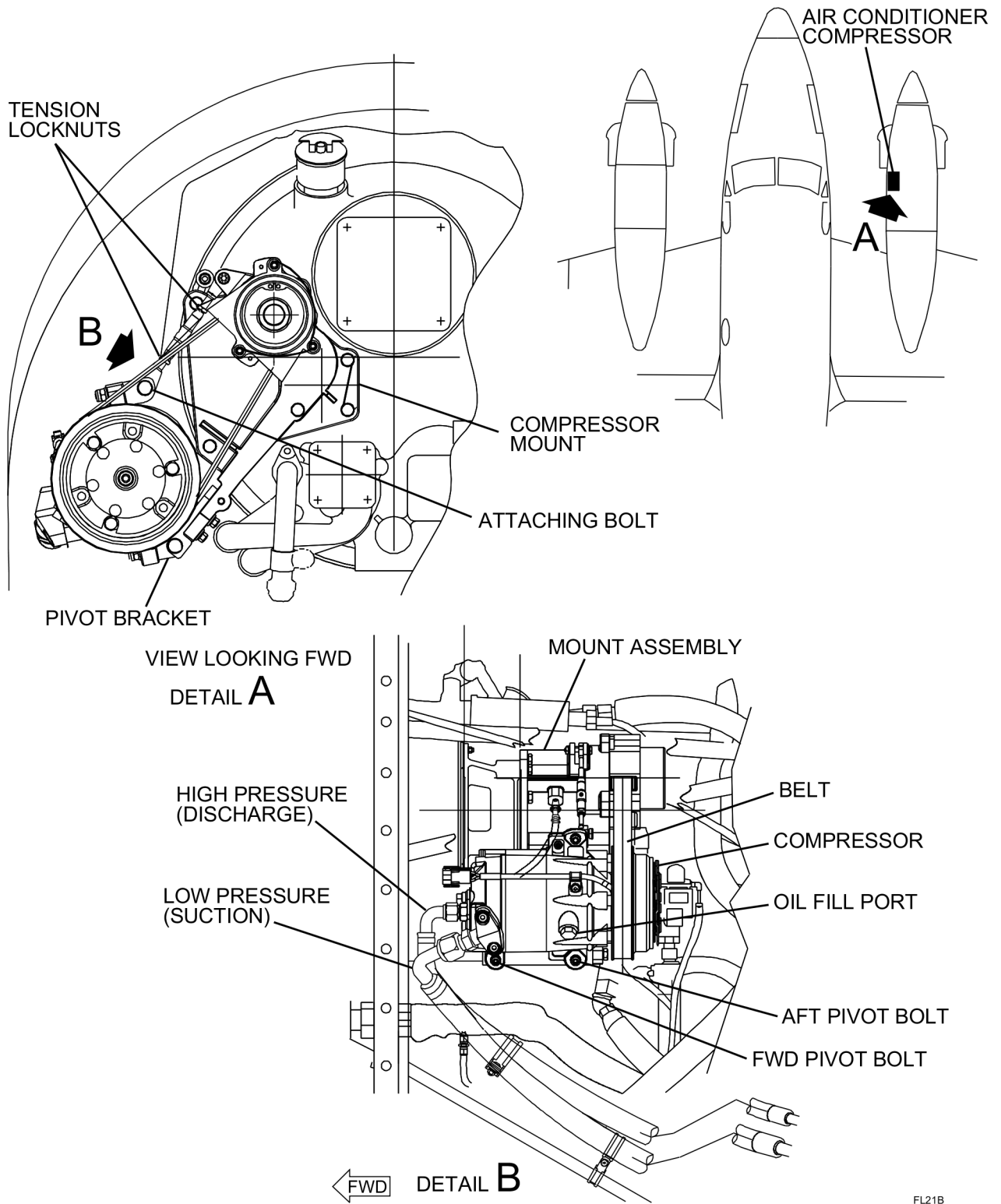
- (4) Attach the belt tension adjuster to the compressor and adjust (Ref. 21-51-05, 501). Torque the attaching bolt between 60 to 85 inch-pounds.
- (5) Torque the compressor pivot bolts between 95 to 110 inch-pounds. Lock the aft pivot bolts with lockwire (09-044, Table 401).
- (6) Connect the high pressure (discharge) hose and the low pressure (suction) hose and adapters to the compressor. Use new packings between the retaining plate, the adapters and the compressor. Torque the metric bolt between 60 to 86 inch-pounds and lock with lockwire (09-044 Table 401).

**NOTE:** Make sure that the high pressure (discharge) and low pressure (suction) hoses are connected to the correct fitting.

- (7) Connect the electrical leads to the compressor clutch.
- (8) Evacuate the system, then charge the system (Ref. 21-51-01, 301).
- (9) Close the inboard cowling door on the right side engine nacelle.

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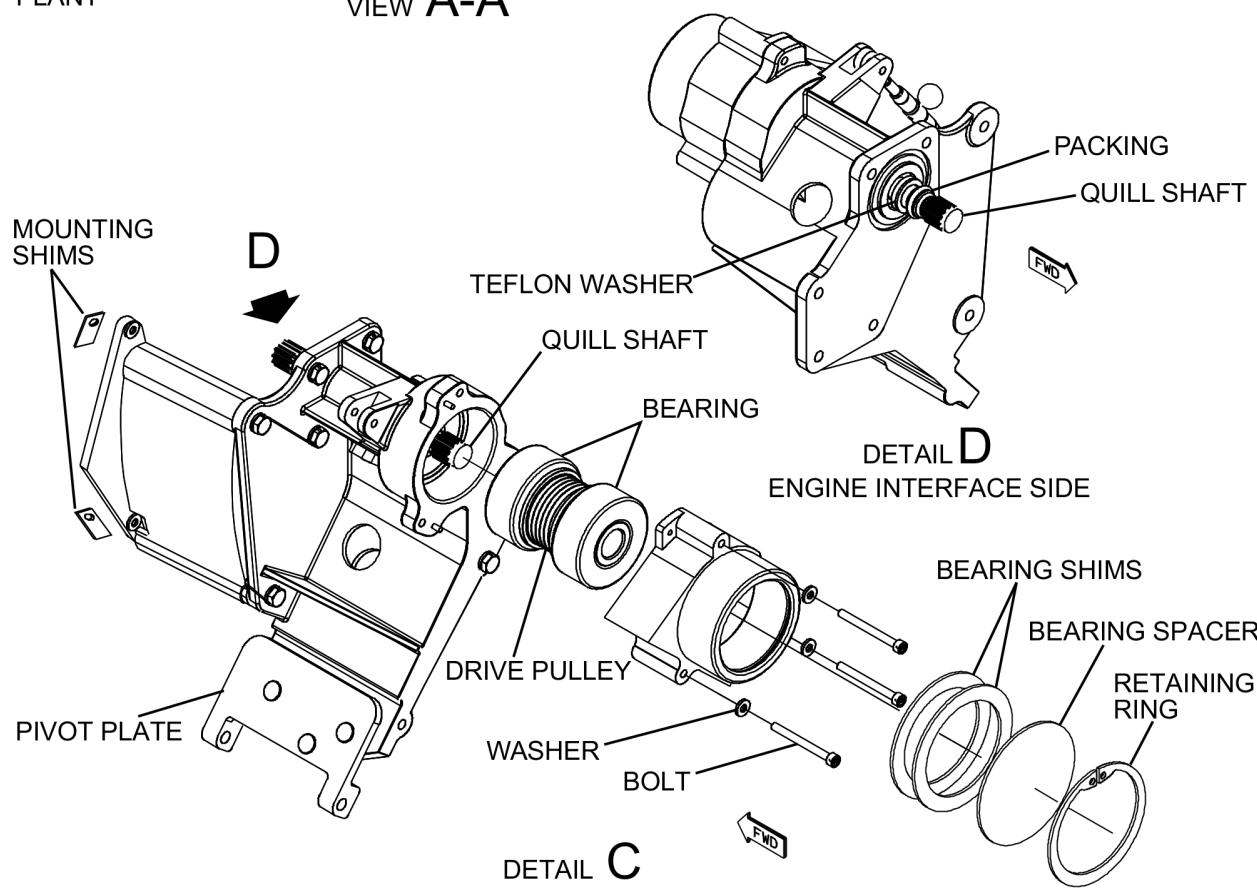
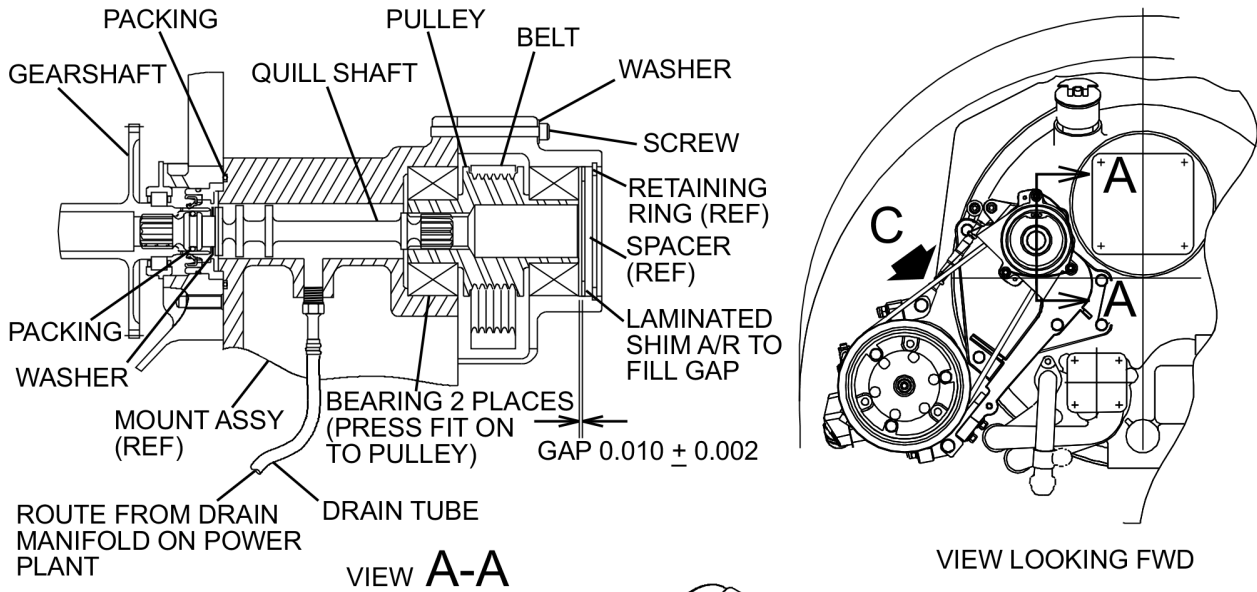


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Air-Conditioning Compressor  
 Figure 401 (Sheet 1)

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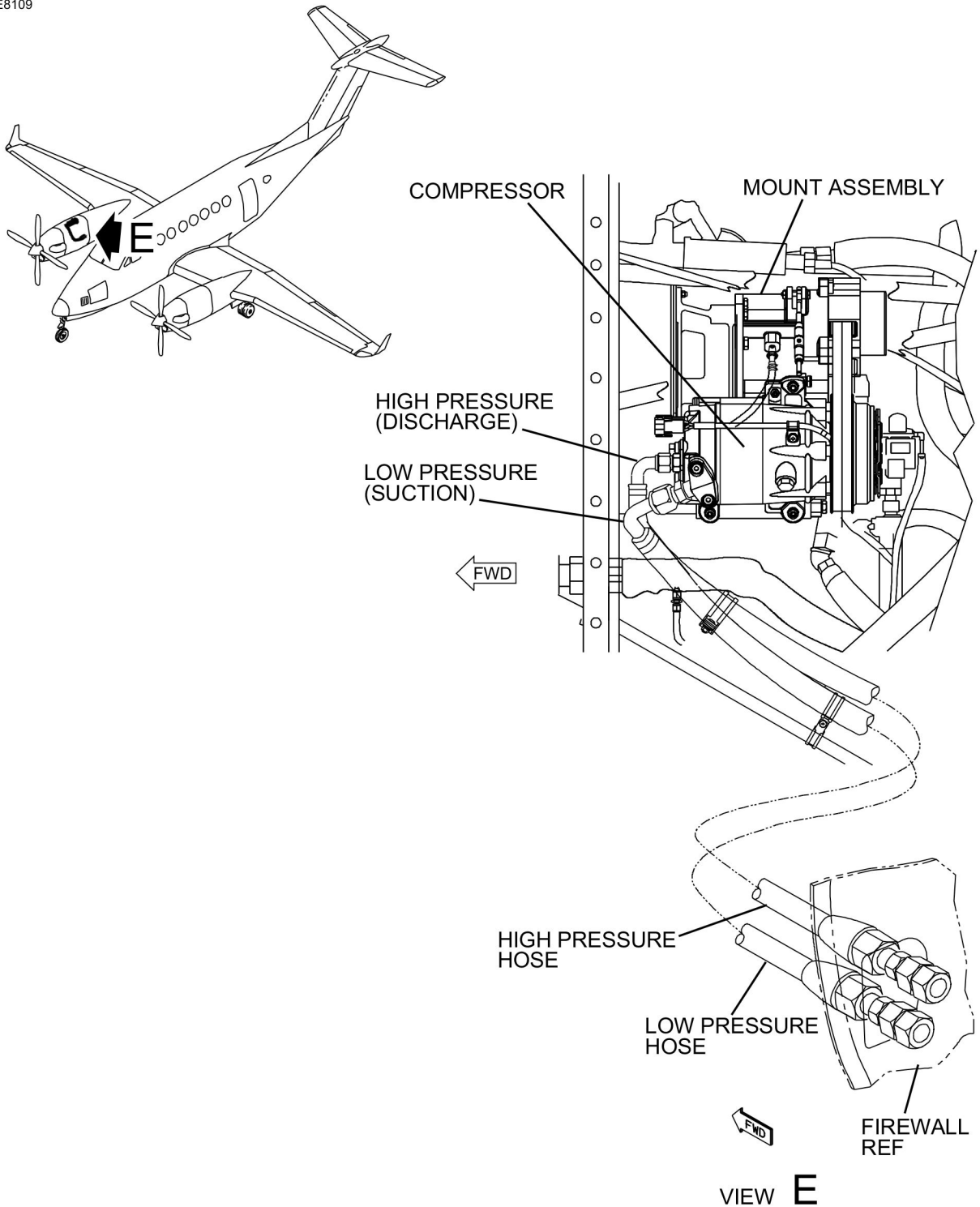


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Air-Conditioning Compressor  
 Figure 401 (Sheet 2)

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MAINTENANCE MANUAL

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Air-Conditioning Compressor  
Figure 401 (Sheet 3)



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**COMPRESSOR BELT - REMOVAL/INSTALLATION**  
**(FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306; FM-66 thru FM-109)**

**1. Information**

Refer to Standard Practices - Airframe Chapter 20-14-00, 201, for information on tools and equipment referenced in Table 401. Refer to Standard Practices - Airframe Chapter 20-15-00, 201, for information on recommended materials referenced in Table 401.

Table 401. Tools/Equipment and Recommended Materials

ITEM	TOOLS AND EQUIPMENT	ITEM	RECOMMENDED MATERIALS
		09-044	Lockwire

**2. Compressor Belt**

**A. Removal**

- (1) Open the inboard cowling door on the right side engine nacelle to gain access to the compressor.
- (2) Remove the attaching bolts and the drive belt housing from the compressor mount assembly. Use care to retain the spacer and shim between the housing and pulley (Ref. Figure 401).
- (3) Release the tension on the tension adjuster. Remove the attaching parts and one end of the tension adjuster.
- (4) Remove the drive belt from the compressor and the drive pulley.

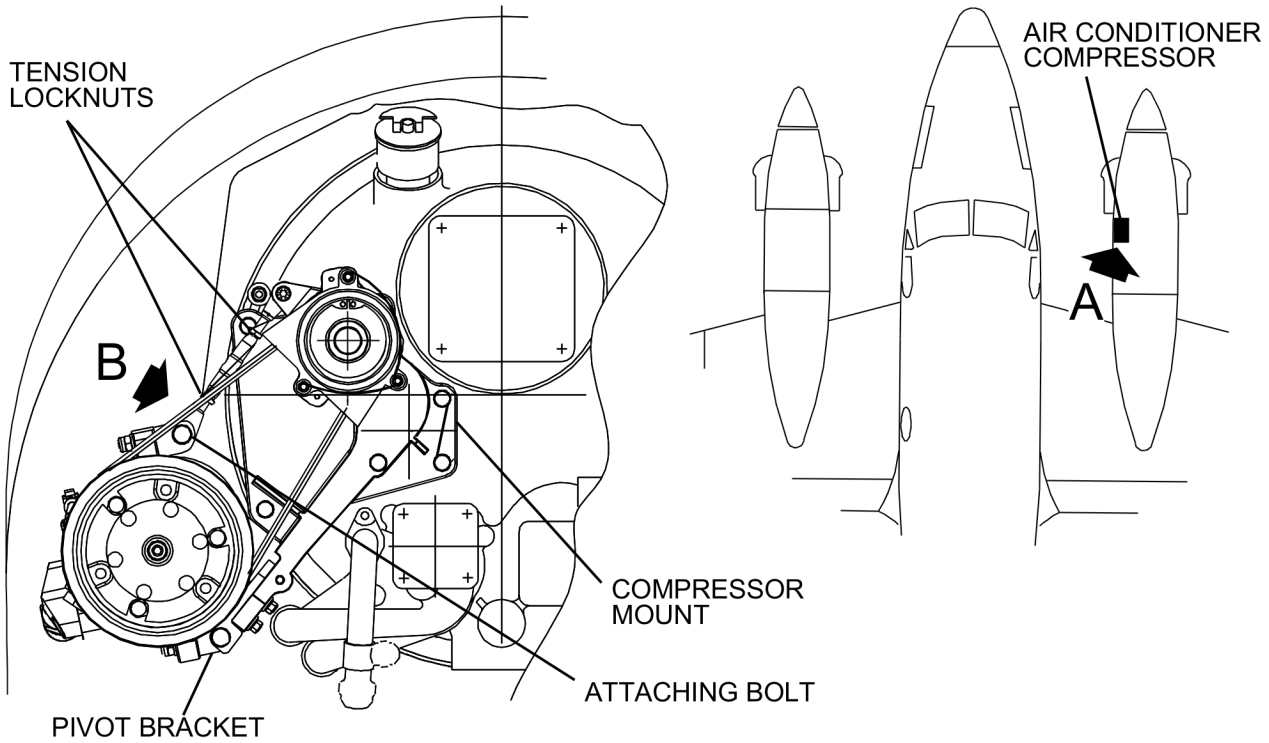
**B. Installation**

- (1) Install the drive belt onto the compressor and drive pulleys (Ref. Figure 401).
- (2) Assemble the turnbuckle end and secure the tension adjuster. Install the drive belt housing to the compressor mount assembly. Torque the drive belt housing bolts to between 25 to 30 inch-pounds and lock the bolts with lockwire (09-044, Table 401).
- (3) Tension the drive belt (Ref. 21-51-05, 501).
- (4) Close the inboard cowling door on the right side engine nacelle.



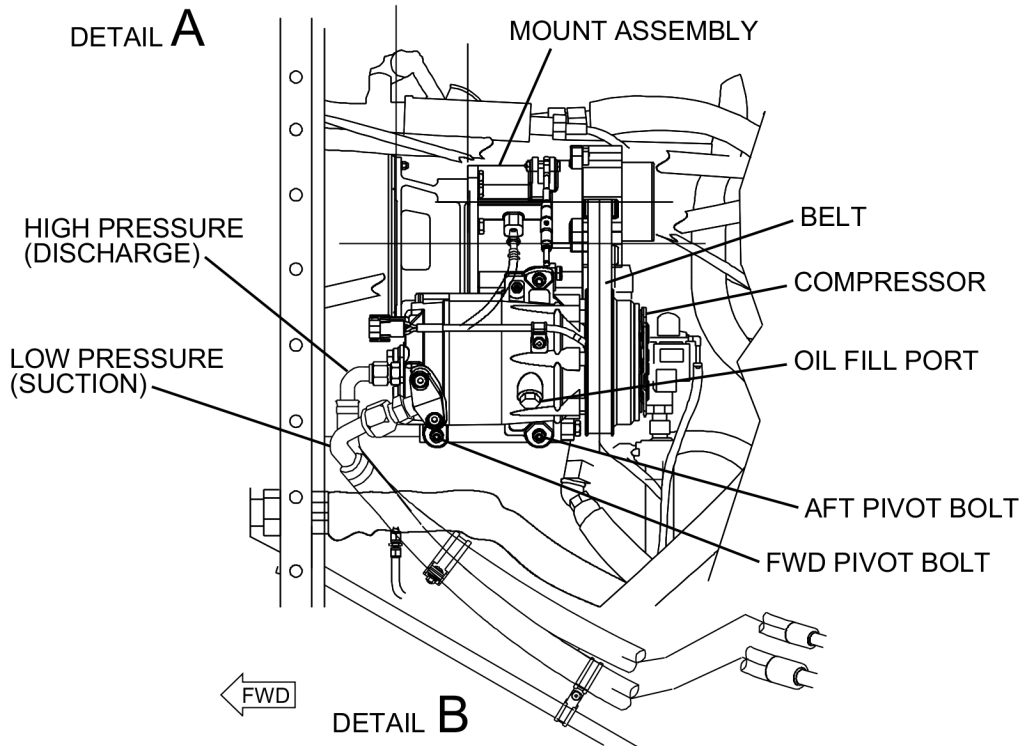
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VIEW LOOKING FWD

DETAIL A



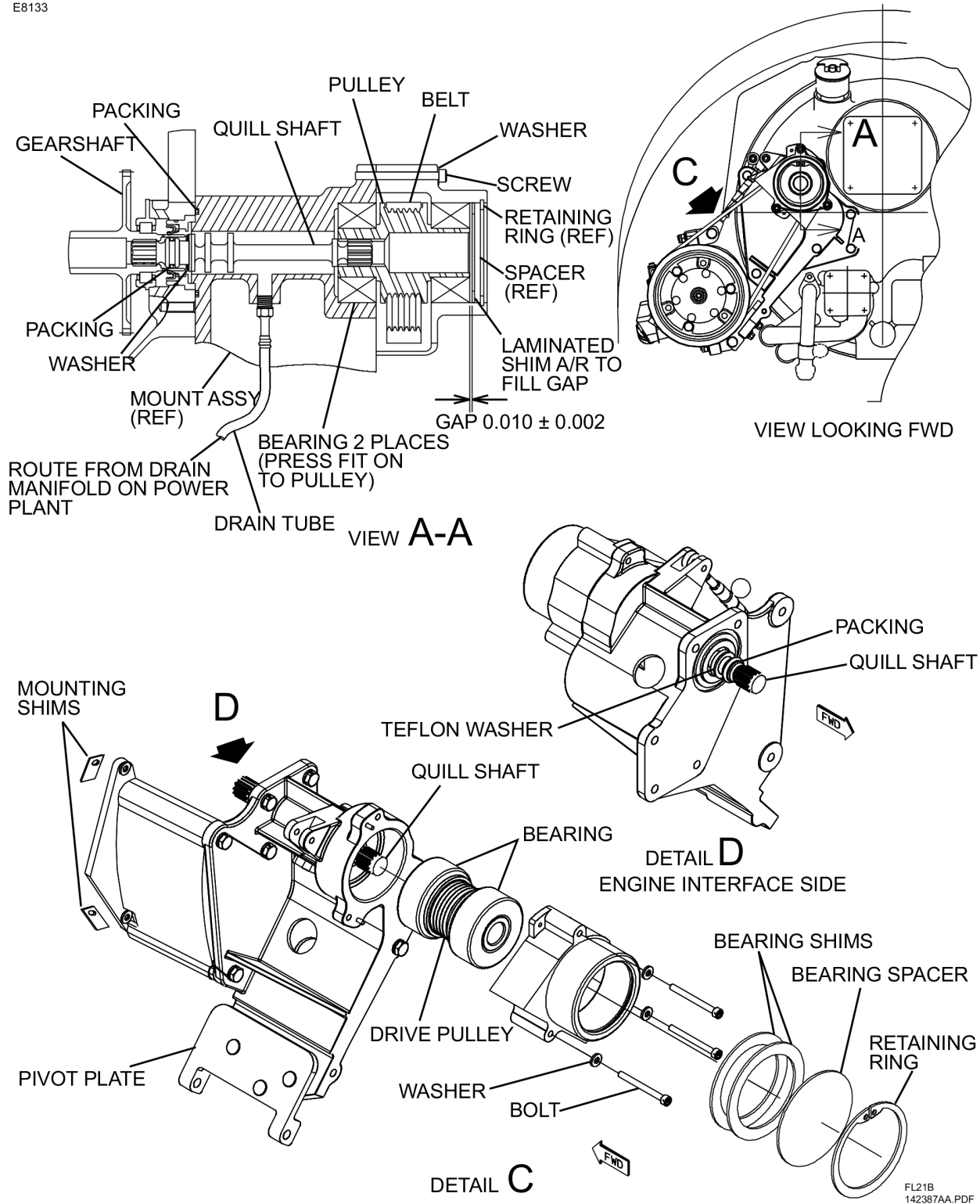
DETAIL B

Compressor Belt  
 Figure 401 (Sheet 1)

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Compressor Belt  
 Figure 401 (Sheet 2)



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**COMPRESSOR BELT - ADJUSTMENT/TEST**  
**(FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306; FM-66 thru FM-109)**

**1. Information**

Refer to Standard Practices - Airframe Chapter 20-14-00, 201, for information on tools and equipment referenced in Table 501. Refer to Standard Practices - Airframe Chapter 20-15-00, 201, for information on recommended materials referenced in Table 501.

Table 501. Tools/Equipment and Recommended Materials

ITEM	TOOLS AND EQUIPMENT	ITEM	RECOMMENDED MATERIALS
		09-044	Lockwire

**2. Compressor Belt Tension**

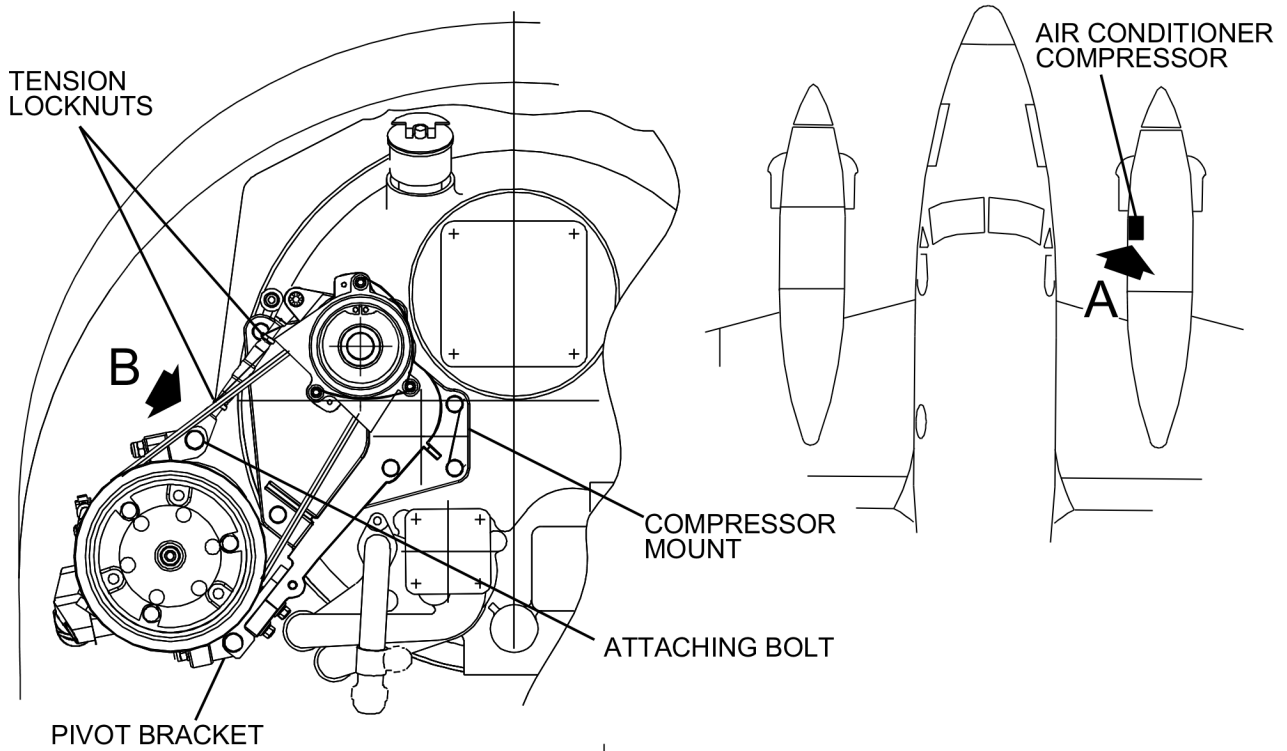
**A. Adjustment**

The tension of the compressor belt should be checked after 50 hours of operation. A 21 to 26-pound force applied at the midspan of the belt should deflect the belt approximately 0.50 inch. Adjust the belt tension as follows:

- (1) Loosen the pivot bolts and the tension adjuster lower attachment bolt (Ref. Figure 501).
- (2) Loosen the locknut at each end of the tension adjuster barrel and turn the barrel to lengthen or shorten the adjuster.
- (3) When correct tension is obtained, torque the adjuster lower attachment bolt to between 60 to 85 inch-pounds and lock the bolt head with lockwire (09-044, Table 501).
- (4) Tighten the pivot bolts and the barrel locknuts. Lock the locknuts to the adjuster barrel with lockwire (09-044, Table 501).

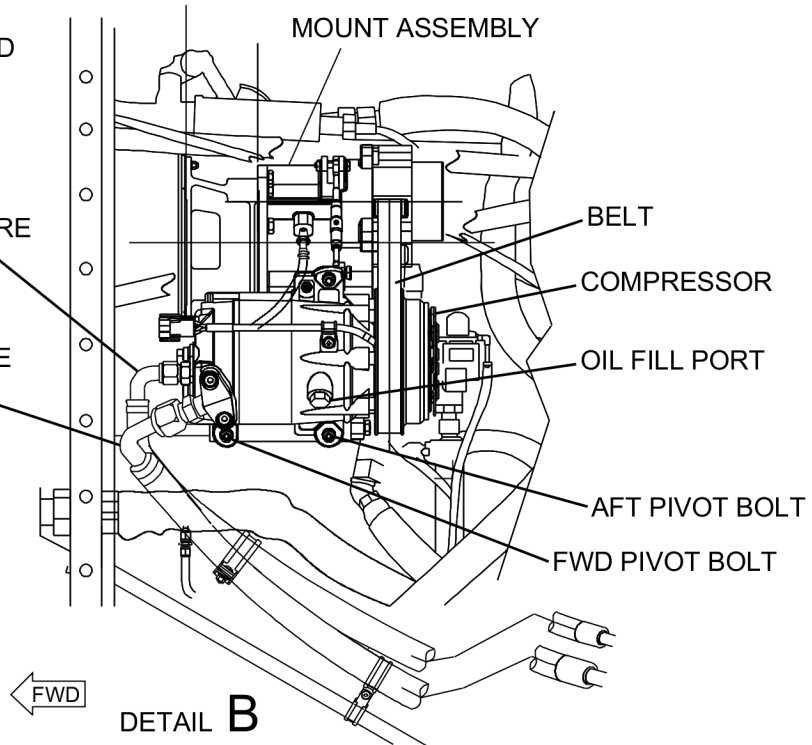
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 DETAIL A

HIGH PRESSURE  
 (DISCHARGE)  
 LOW PRESSURE  
 (SUCTION)



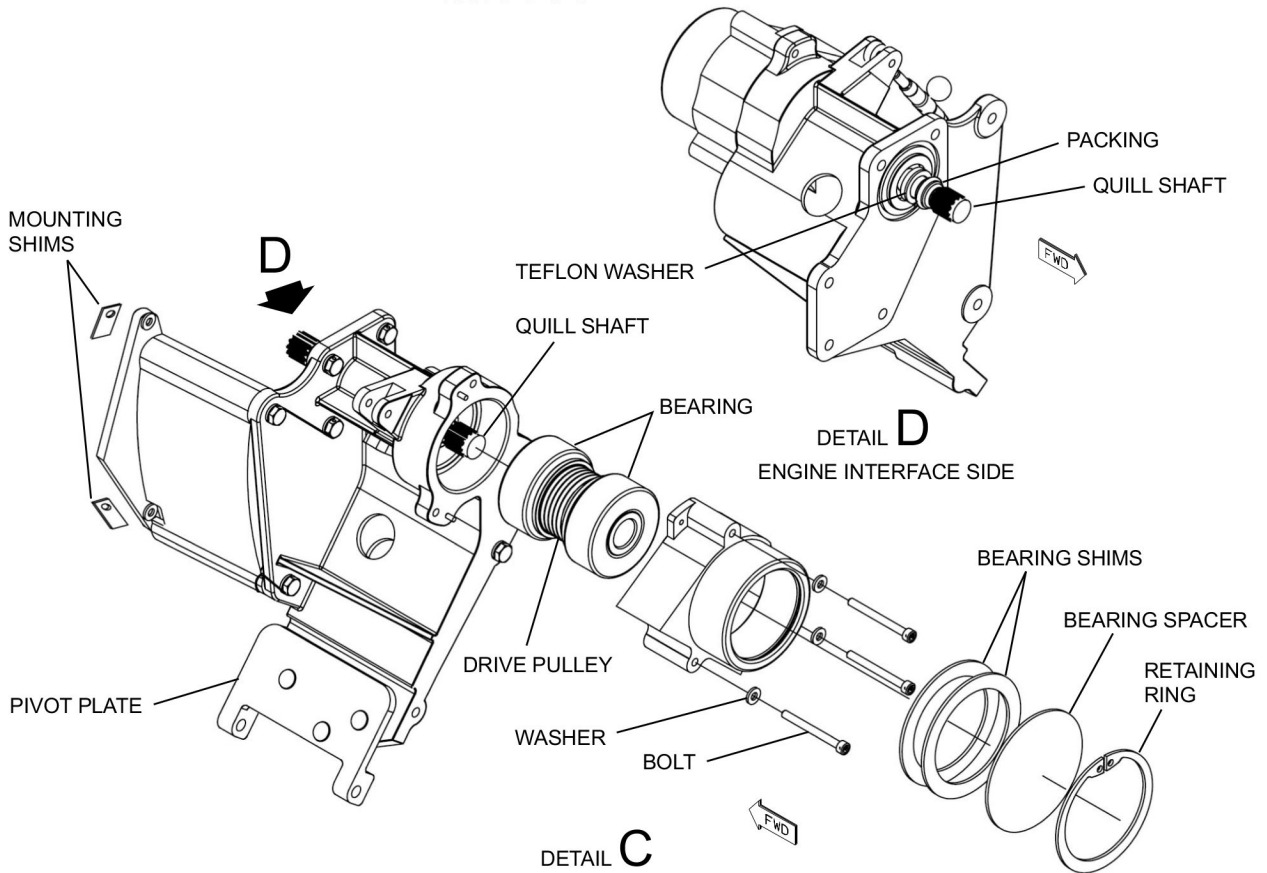
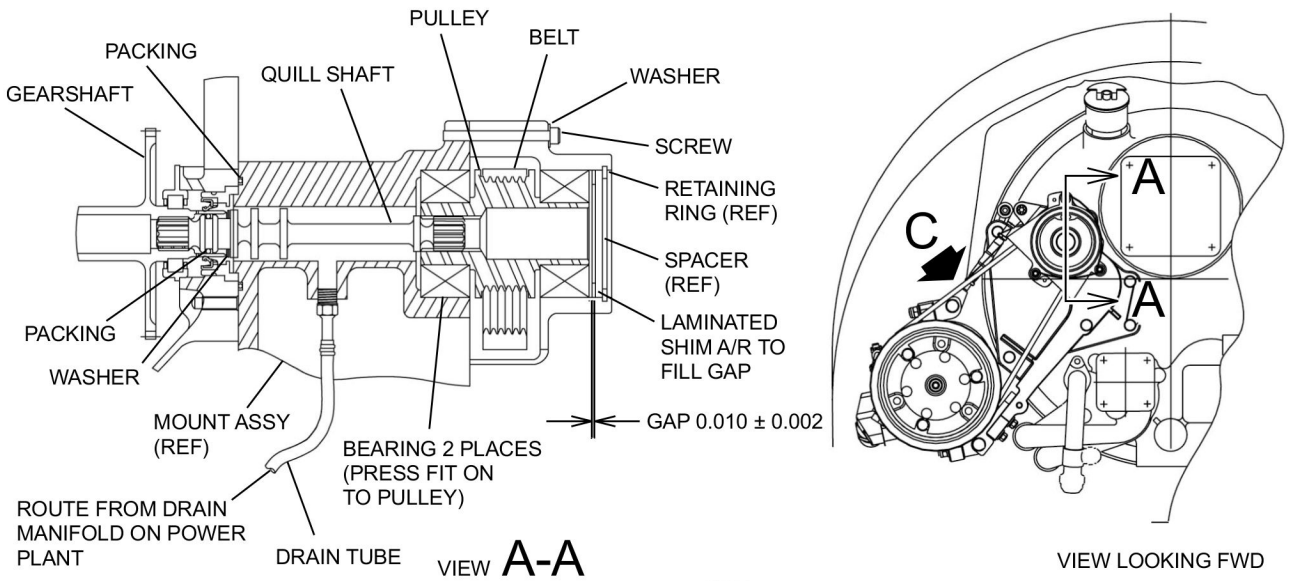
DETAIL B

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Compressor Belt  
 Figure 501 (Sheet 1)

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Compressor Belt  
 Figure 501 (Sheet 2)

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**COMPRESSOR MOUNT - REMOVAL/INSTALLATION**  
 (FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306; FM-66 thru FM-109)

**1. Information**

Refer to Standard Practices - Airframe Chapter 20-14-00, 201, for information on tools and equipment referenced in Table 401. Refer to Standard Practices - Airframe Chapter 20-15-00, 201, for information on recommended materials referenced in Table 401.

Table 401. Tools/Equipment and Recommended Materials

ITEM	TOOLS AND EQUIPMENT	ITEM	RECOMMENDED MATERIALS
		09-044	Lockwire

**2. Compressor Mount**

**A. Removal**

- (1) Perform the COMPRESSOR BELT REMOVAL procedure (Ref. 21-51-05, 401).
- (2) Perform the COMPRESSOR REMOVAL procedure (Ref. 21-51-03, 401).
- (3) Cut the lockwire and remove the eight bolts securing the compressor mount to the engine gearbox housing and support (Ref. Figure 401).
- (4) Remove the compressor mount and quill shaft. Use care not to lose the spring at the end of the quill shaft or the two seals between the compressor mount and the engine gearbox housing.
- (5) Remove two engine gearbox housing nuts that secure the support to the gearbox housing.
- (6) Perform the COMPRESSOR MOUNT SUPPORT REMOVAL procedure (Ref. 21-51-09, 401).

**B. Installation**

- (1) Perform the COMPRESSOR MOUNT SUPPORT INSTALLATION procedure (Ref. 21-51-09, 401).

**CAUTION:** Make sure that the mount seals, quill shaft, and quill shaft spring are in place prior to installation of the mount. If the existing seals are worn or damaged, install new seals.

- (2) Install the quill shaft in the compressor mount (Ref. Figure 401).

**NOTE:** It is recommended to install the quill shaft, spring and seals in the compressor mount prior to installing the compressor mount to the gearbox.

- (3) Install the compressor mount. Torque the compressor mount bolts to between 40 to 50 inch-pounds. Lock all but the lower bolt in place with lockwire (09-044, Table 401).
- (4) Perform the COMPRESSOR INSTALLATION procedure (Ref. 21-51-03, 401).

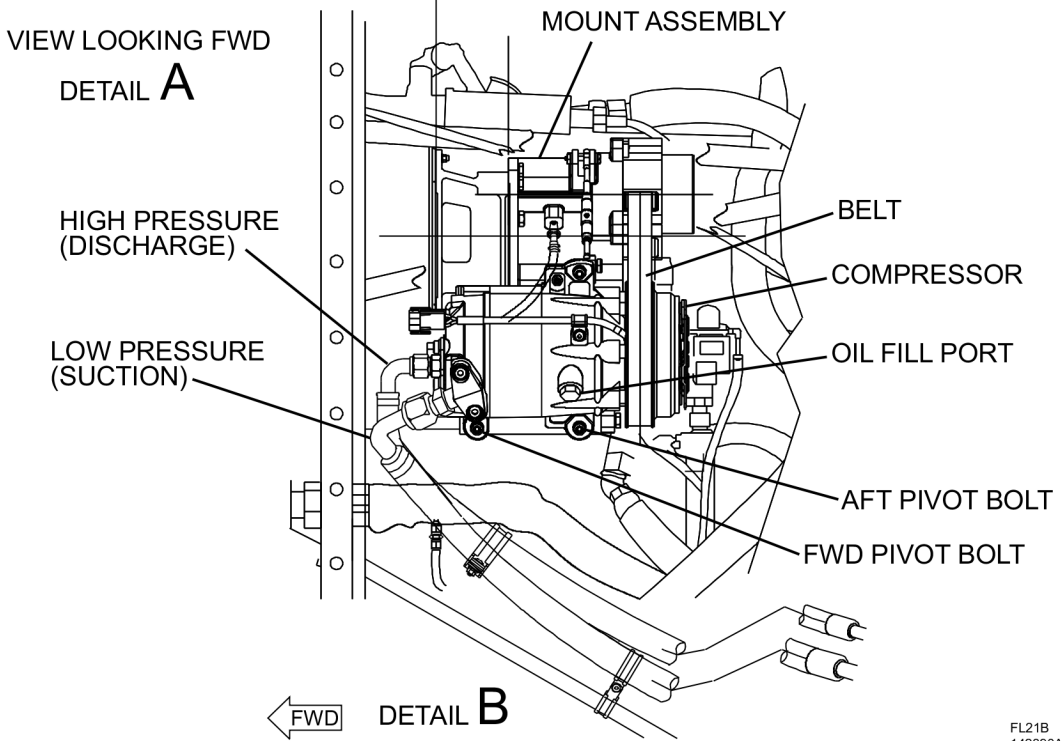
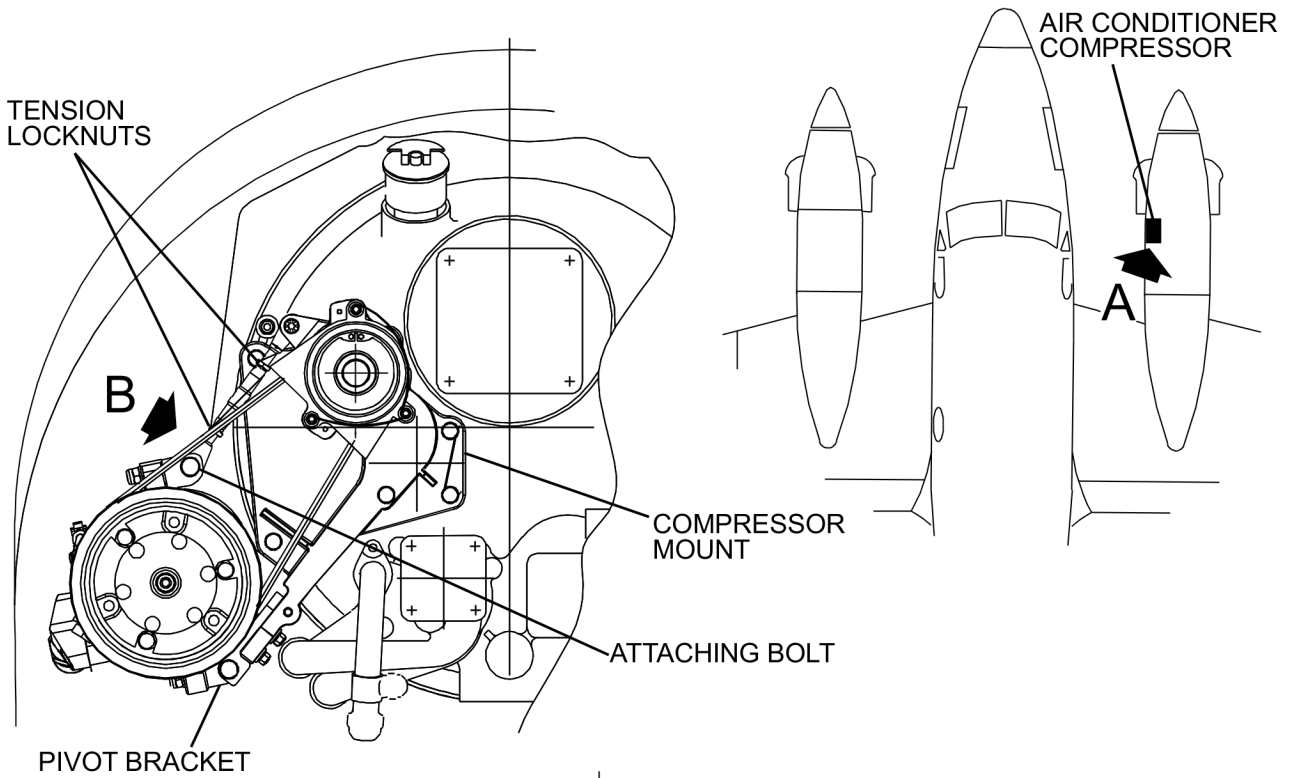
**NOTE:** Do not tighten the pivot bolts.

- (5) Perform the COMPRESSOR BELT INSTALLATION procedure (Ref. 21-51-05, 401).



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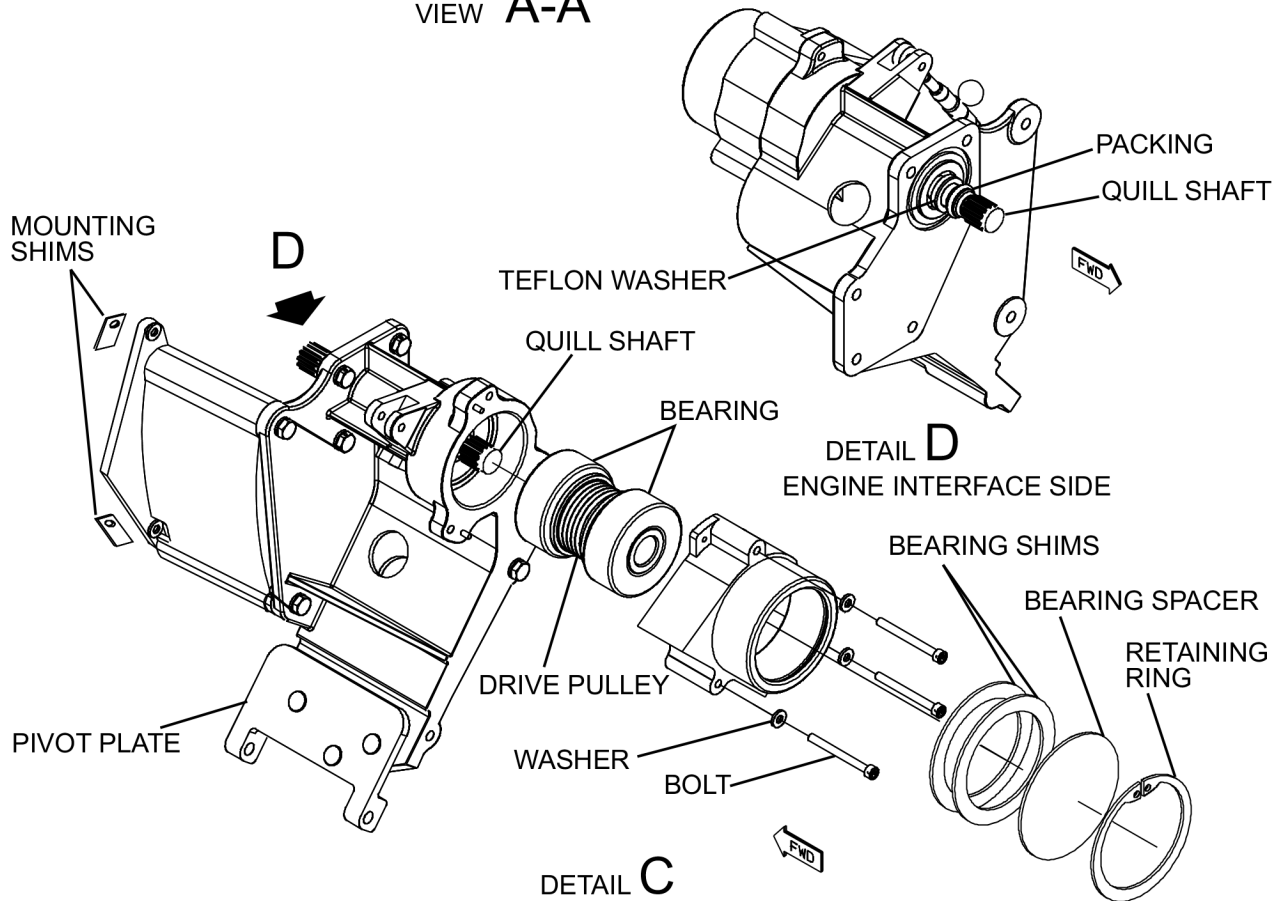
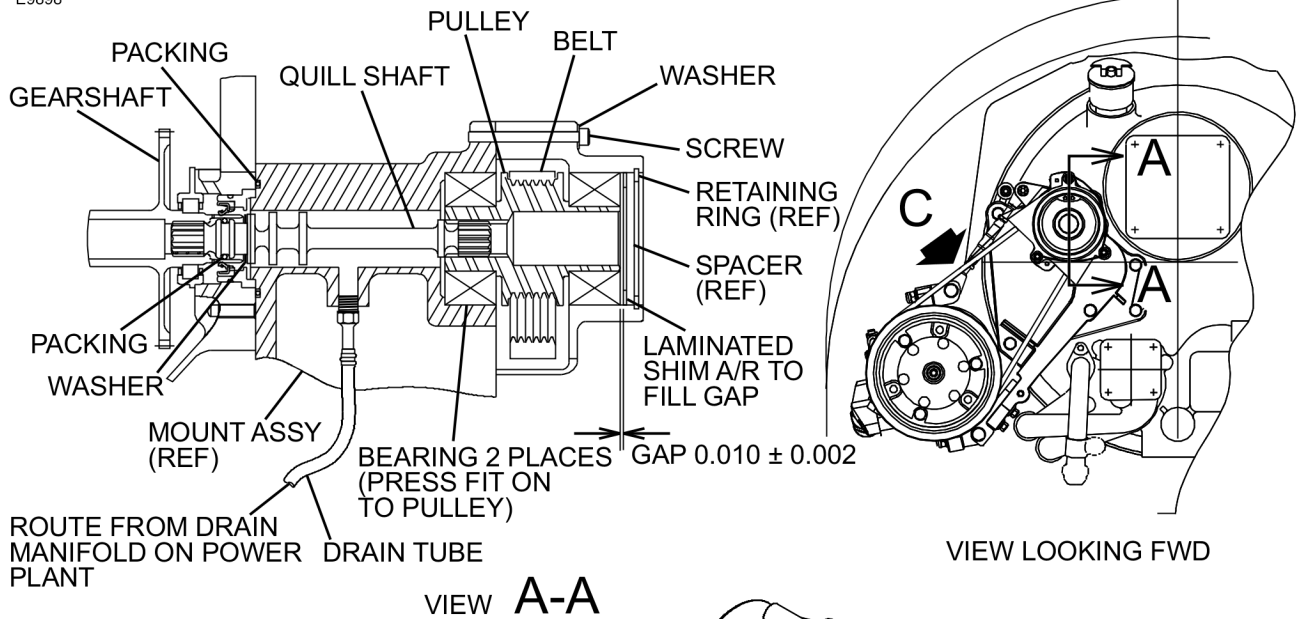


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Compressor Mount  
 Figure 401 (Sheet 1)

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Compressor Mount  
 Figure 401 (Sheet 2)



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**COMPRESSOR MOUNT SUPPORT - REMOVAL/INSTALLATION**  
**(FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306; FM-66 thru FM-109)**

**1. Compressor Mount Support**

A. Removal

- (1) Perform the COMPRESSOR MOUNT REMOVAL procedure (Ref. 21-51-07, 401).
- (2) Remove the two engine gearbox housing nuts securing the support to the gearbox housing (Ref. Figure 401).
- (3) Note the number of shims at each location and retain for re-installation at the same location.
- (4) Install the two nuts on the studs they were removed from.

B. Installation

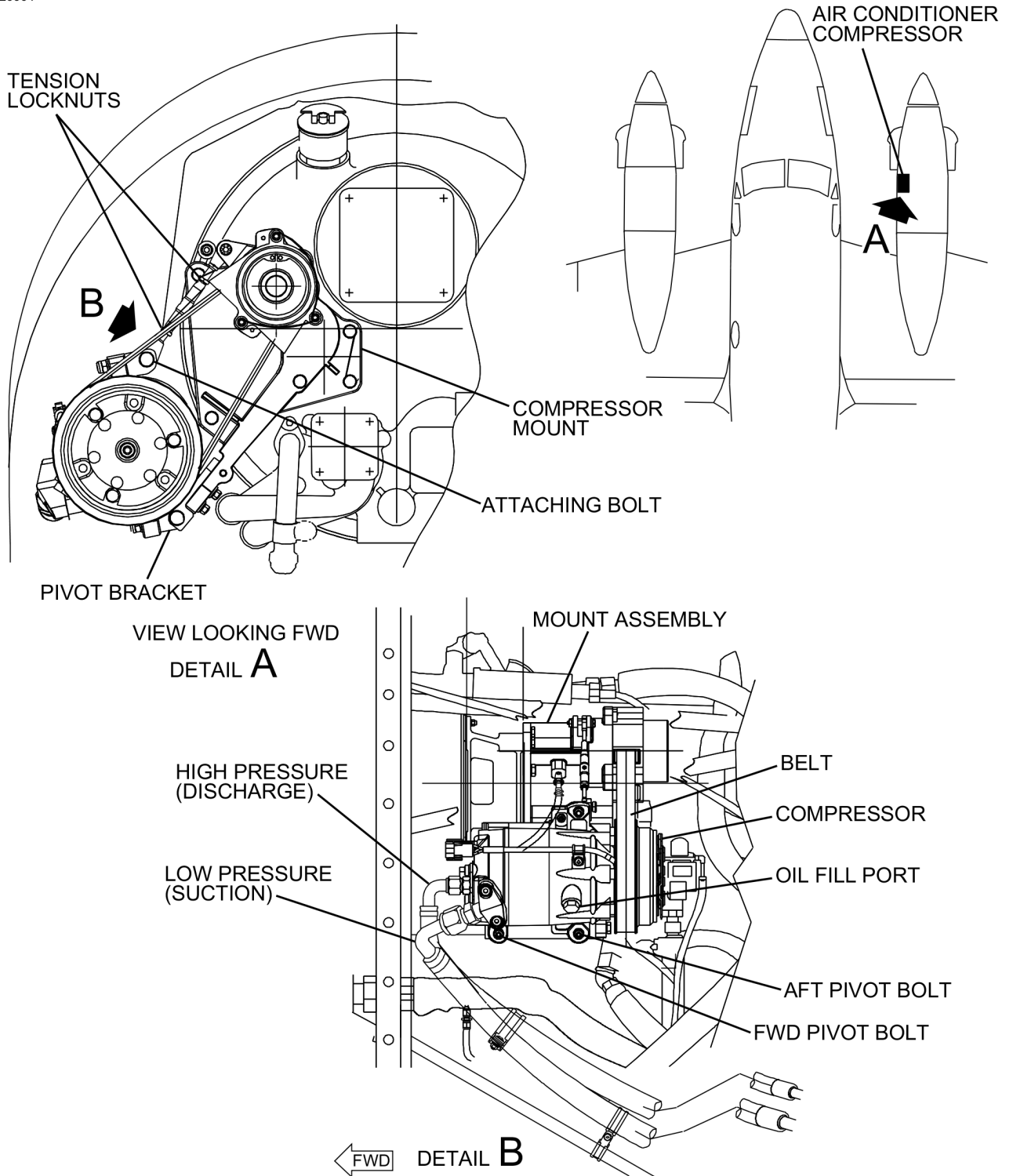
- (1) Remove the two nuts from the location the support will be installed (Ref. Figure 401).
- (2) Install the support with the shims.

**NOTE:** The shims should level the mounting surfaces of the support to within 0.002 inch of the compressor mount pad on the gearbox housing.

- (3) Install the gearbox housing nuts and torque to between 20 to 30 inch-pounds.
- (4) Perform the COMPRESSOR MOUNT INSTALLATION procedure (Ref. 21-51-07, 401).

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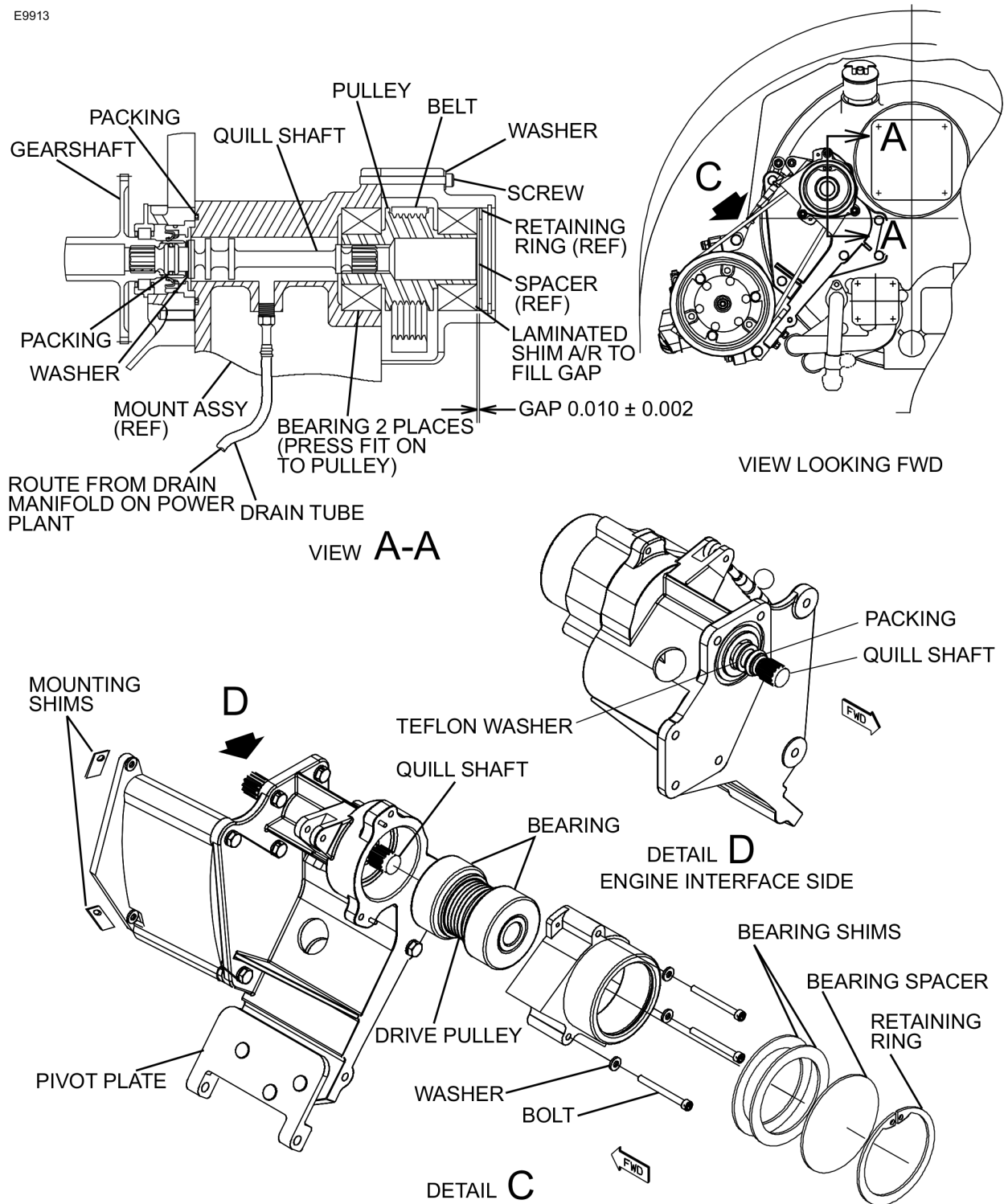


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Compressor Mount Support  
 Figure 401 (Sheet 1)

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Compressor Mount Support  
 Figure 401 (Sheet 2)

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**CONDENSER - REMOVAL/INSTALLATION**  
 (FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306; FM-66 thru FM-109)

**1. Information**

Refer to Standard Practices - Airframe Chapter 20-14-00, 201, for information on tools and equipment referenced in Table 401. Refer to Standard Practices - Airframe Chapter 20-15-00, 201, for information on recommended materials referenced in Table 401.

Table 401. Tools/Equipment and Recommended Materials

ITEM	TOOLS AND EQUIPMENT	ITEM	RECOMMENDED MATERIALS
		02-025	Oil

**2. Condenser**

**NOTE:** Replace the receiver/dryer whenever the compressor is replaced or when the air-conditioning system plumbing is left open to the atmosphere for more than one hour.

**A. Removal**

- (1) Perform the DISCHARGING THE AIR CONDITIONING SYSTEM procedure (Ref. 21-51-01, 301) slowly until all pressure is bled off.
- (2) Remove the right and left louvered access panels and the right avionics compartment door from the airplane.
- (3) Remove all avionics equipment and the avionics shelf from the nose compartment.
- (4) Perform the CONDENSER INLET DUCT REMOVAL procedure (Ref. 21-51-13, 401).
- (5) Remove the access panel from the top side of the airplane nose and disconnect the plumbing lines from the receiver/dryer. Discard old packings and cap or plug all open lines and fittings (Ref. Figure 401).
- (6) Remove fasteners which attach the forward avionics compartment bulkhead panel to the bulkhead and remove the panel.
- (7) Remove the inlet line and the outlet line from the condenser fittings. Discard old packings and cap or plug all lines and fittings.
- (8) Remove six fasteners that attach the upper support bracket and remove upper support bracket.
- (9) Remove the fasteners which attach the condenser in position and remove the condenser from the nose compartment.

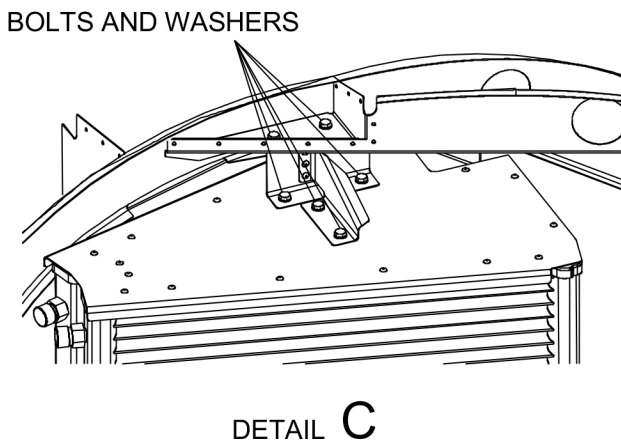
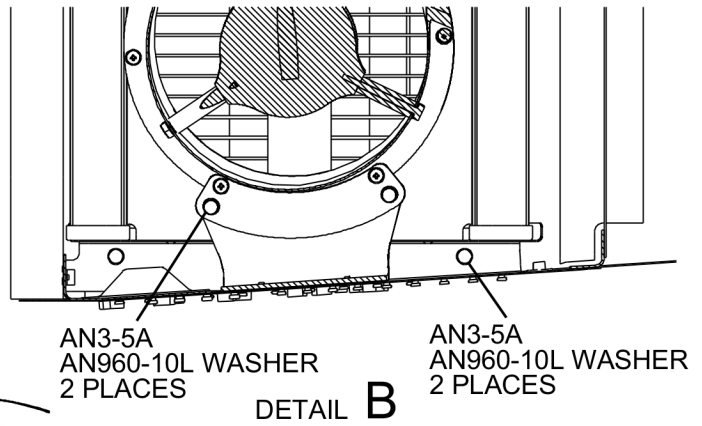
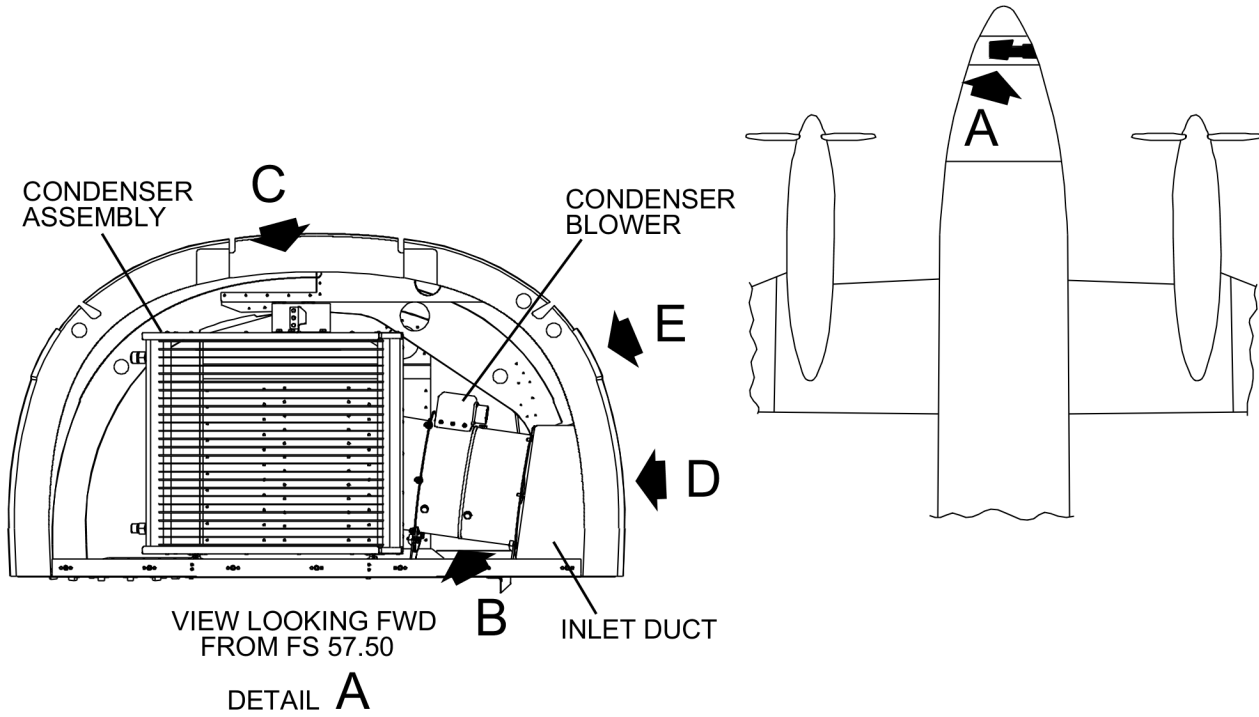
**B. Installation**

- (1) Position condenser in its nose compartment location and secure with the attaching fasteners (Ref. Figure 401).
- (2) Install the upper support bracket and secure to frame and condenser with fasteners.
- (3) Connect the inlet line and the outlet line to the condenser. Lubricate new packings with oil (02-025, Table 401) and torque fittings (Ref. 21-51-00, 001).
- (4) Install the forward bulkhead panel to the nose compartment bulkhead with the attaching fasteners.
- (5) Connect the plumbing lines to the receiver/dryer by access through the opening in the top of the airplane nose. Lubricate new packings with oil (02-025, Table 401) and torque fittings (Ref. 21-51-00, 001).
- (6) Install the access panel on the top of the nose.
- (7) Perform the CONDENSER INLET DUCT INSTALLATION procedure (Ref. 21-51-13, 401).
- (8) Install the avionics shelf and all avionics equipment in the nose compartment.
- (9) Install the left and right louvered access panels and the nose compartment door on the right side of the nose.
- (10) Perform the CHARGING THE AIR CONDITIONING SYSTEM procedure (Ref. 21-51-01, 301).



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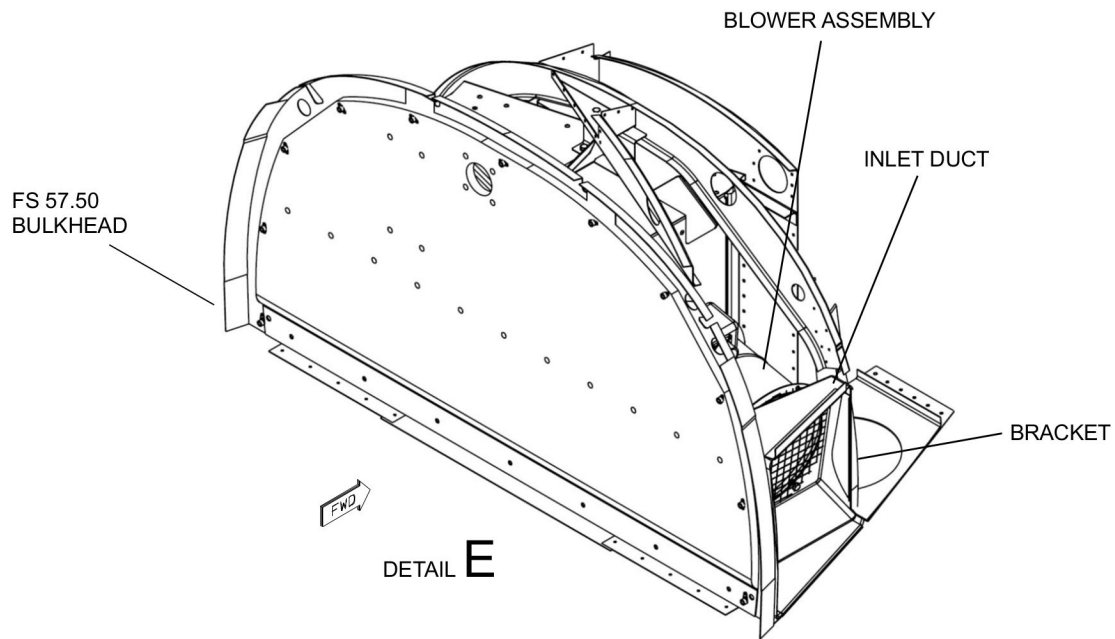
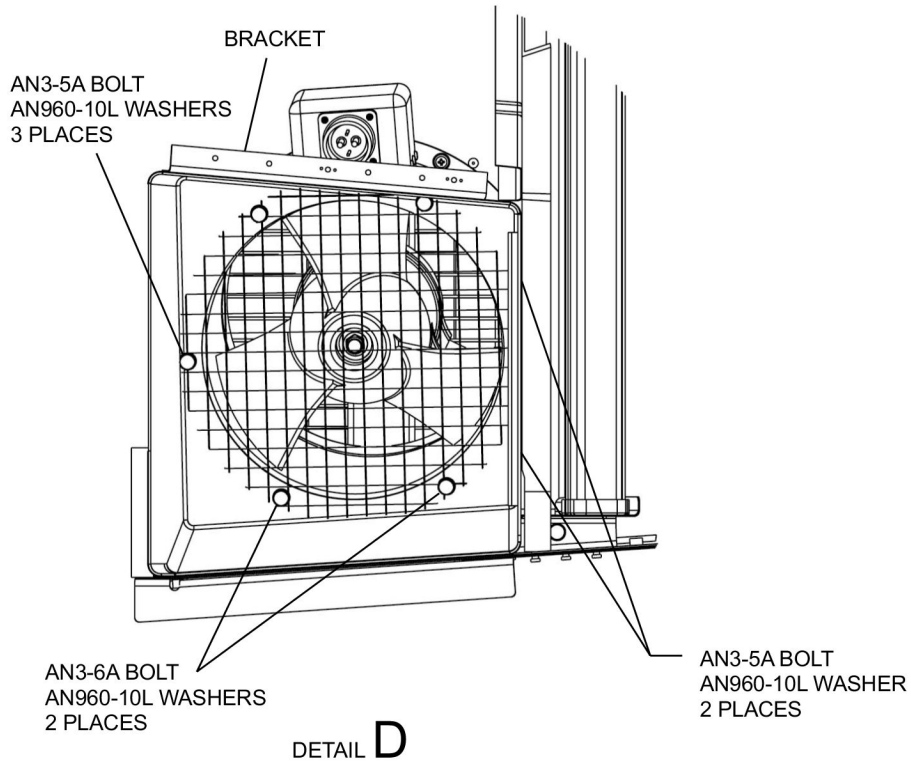


Condenser  
 Figure 401 (Sheet 1)

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Condenser  
 Figure 401 (Sheet 2)

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**RECEIVER/DRYER - REMOVAL/INSTALLATION**  
 (FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306; FM-66 thru FM-109)

**1. Information**

Refer to Standard Practices - Airframe Chapter 20-14-00, 201, for information on tools and equipment referenced in Table 401. Refer to Standard Practices - Airframe Chapter 20-15-00, 201, for information on recommended materials referenced in Table 401.

Table 401. Tools/Equipment and Recommended Materials

ITEM	TOOLS AND EQUIPMENT	ITEM	RECOMMENDED MATERIALS
		02-025	Oil

**2. Receiver/Dryer**

**NOTE:** Replace the receiver/dryer whenever the compressor is replaced or when the air-conditioning system plumbing is left open to the atmosphere for more than one hour.

**A. Removal**

- (1) Perform the DISCHARGING THE AIR CONDITIONING SYSTEM procedure (Ref. 21-51-01, 301) slowly until all pressure is bled off.
- (2) Disconnect the inlet line and the outlet line from the receiver/dryer. Discard old packings and cap or plug all lines and fittings (Ref. Figure 401).
- (3) Remove the receiver/dryer from the airplane and discard.

**NOTE:** For troubleshooting purposes, the receiver/dryer can be cut open carefully to determine if any contamination exists in the system.

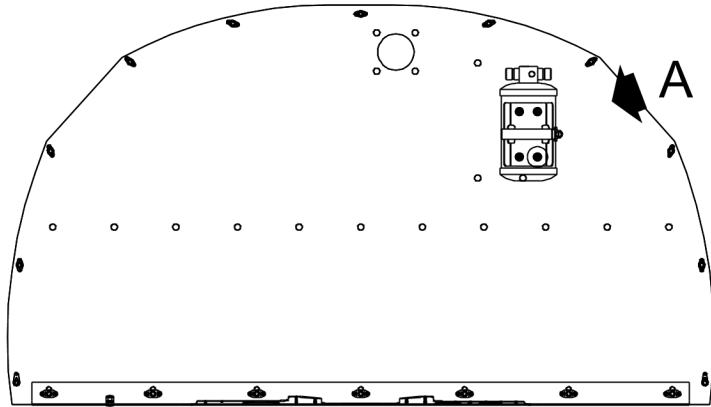
**B. Installation**

**WARNING: The receiver/dryer has a designated "IN" side, indicating refrigerant flow. Proper orientation is important. The hose from the condenser needs to be attached to the side marked "IN".**

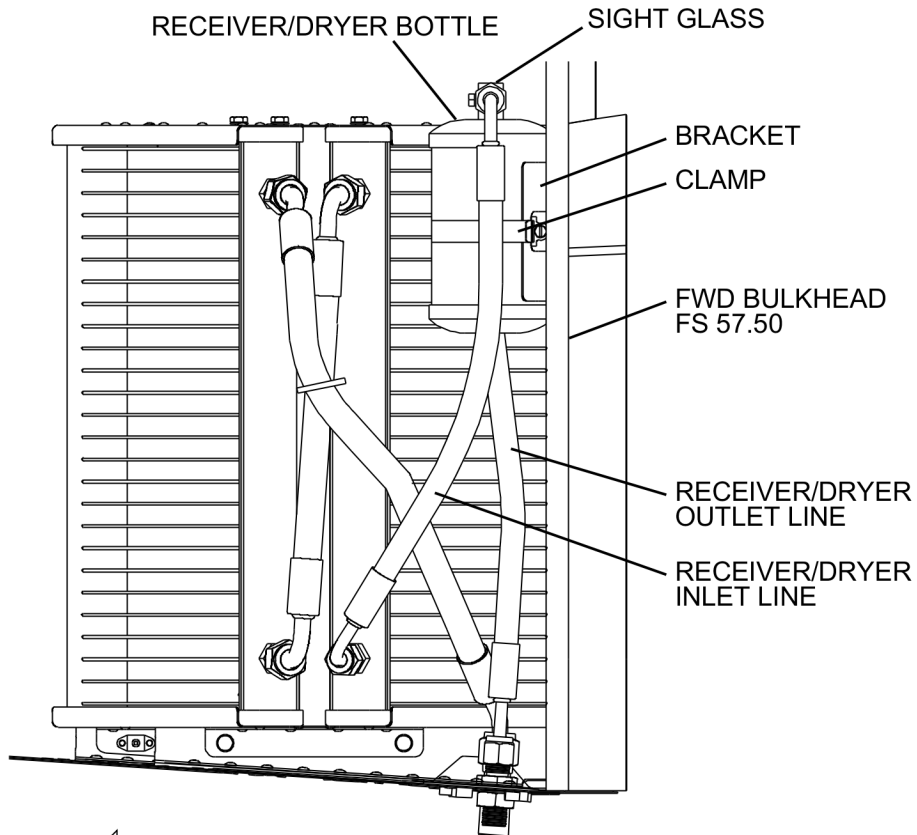
- (1) Install the receiver/dryer (Ref. Figure 401).
- (2) Install the upper support bracket and secure to frame and condenser with fasteners.
- (3) Connect the inlet line and the outlet line to the receiver/dryer. Lubricate new packings with oil (02-025, Table 401) and torque fittings (Ref. 21-51-00, 001).
- (4) Perform the CHARGING THE AIR CONDITIONING SYSTEM procedure (Ref. 21-51-01, 301).

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VIEW LOOKING AFT



← FWD VIEW LOOKING INBD  
 DETAIL A

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Receiver/Dryer  
 Figure 401 (Sheet 1)



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**VAPOR CYCLE COOLING SYSTEM - DESCRIPTION AND OPERATION**  
(FL-1300, FL-1307 and After; FM-110 and After)

**1. Description**

Airplanes FL-1300, FL-1307 and after, and FM-110 and after are equipped with a variable duty cycle electric motor driven vapor cycle cooling system (VCCS). The VCCS uses the principles of temperature and pressure to move heat from the cockpit and passenger compartments to the outside air, as well as aiding in defogging of the cockpit and cabin windows. The refrigerant cycle changes the refrigerant from a gas to a liquid and then back to a gas, dropping the pressure to absorb heat, and increasing pressure to release heat. Any time there is a change in pressure, there is a corresponding change in temperature. The major components of the VCCS include the environmental system controls, compressor/motor module, condenser module, receiver-dryer, thermostatic expansion valves, cockpit and cabin evaporators, refrigerant tubing and ductwork. Refer to Figure 2 for a functional block diagram of the VCCS. The following is an overview of the VCCS main components.

**A. Environmental System Controls**

The ENVIRONMENTAL control panel is located on the copilot's left subpanel (Ref. Figure 1). The controls provide for automatic or manual control of the system. The system is a dual zone system which allows for independent control of the temperature in the cabin and cockpit.

When the MODE selector switch is set to the AUTO position, the heating and air conditioning systems operate automatically. The system will automatically adjust blower speed, bleed air temperature and the compressor motor/module to maintain the temperature settings selected by the TEMP control knobs. When the TEMP control knobs are set to the 12 o'clock position, the temperature is maintained at approximately 75°F. If a different blower speed is desired, the BLOWER control knobs can be rotated from the AUTO position to set the desired blower speed.

When the MODE selector switch is set to the MAN COOL position, the VCCS will operate in low power mode, provided the speed of the left or right engine is below 70% N1. If both engines are operating above 70% N1, or if the airplane is connected to a ground power source, the system will operate in high power mode. To prevent the evaporator coils from freezing, the blower speed will default to a preset minimum speed. In this mode, the TEMP control knobs operate the same as in the MAN HEAT position, and the blower speed can be changed by changing the CABIN and COCKPIT BLOWER control knob settings.

**B. Compressor/Motor Module**

The compressor/motor module contains a scroll type compressor, with a direct drive 28V brushless DC motor and associated integrated motor controller. The compressor is a fixed displacement unit designed for R-134a refrigerant. The motor provides power directly to the compressor pump. The compressor/motor module is located on the pilot (left hand) side of the airplane under the floor in the nose section.

**C. Condenser Module**

The condenser module contains two condenser coils connected in series by a refrigerant hose, a plenum, a 28 VDC motor and an axial vane fan blade assembly. The condenser module is mounted in the nose section of the airplane, immediately forward of the avionics bay. Condenser inlet air is drawn in through an inlet on the right side of the nose bay of the airplane and is exhausted through an exhaust vent on the left side of the nose bay of the airplane.

**D. Receiver/Dryer**

The receiver/dryer is a non-serviceable part that filters and removes moisture from the refrigerant. Additionally, a sight glass is built into the receiver/dryer. The receiver-dryer is mounted on the left hand side in the nose section of the airplane aft of the condenser module.

**E. Thermostatic Expansion Valves (TXV)**

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There are two TXVs installed on the airplane, one at the cockpit evaporator and one at the cabin evaporator. The TXV is a variable restriction device. The high pressure liquid from the receiver/dryer enters the TXV and is changed to a low pressure, low temperature mist as it is forced through the metering device within the TXV.

F. Cockpit and Cabin Evaporators

The cockpit and cabin evaporators both contain an evaporator heat exchanger, heat exchanger housing with water drain, thermostatic expansion valves, 28 volt brushless DC motors. The cockpit evaporator motor drives a centrifugal blower wheel fan and the cabin evaporator motor drives a mixed flow axial fan. The evaporators are connected to their respective low pressure ducting distribution systems.

**2. Operation**

- A. The VCCS compressor uses two pressure transducers for system monitoring and protection. In low pressure conditions, the motor speed is reduced to prevent freezing or low refrigerant conditions up until a minimum motor rpm threshold is reached, at which point the unit will shut off. The high pressure protections of the compressor will also reduce the motor speed to prevent the unit from exceeding 400 PSIA. If 400 PSIA is exceeded the unit will cease rotation to prevent damage to the system from excessively high pressures. In addition, the receiver dryer has a high pressure relief valve that provides additional simple mechanical pressure relief. The compressor draws low pressure gas from the cockpit and cabin evaporators into the suction port. The compressor pressurizes the refrigerant which also raises the temperature, then discharges the superheated gas from the discharge port.

Superheated gas from the discharge port of the compressor enters the condenser and passes through the condenser coils. Outside air passing over the coils removes heat from the superheated gas. As the heat is removed, the gas condenses into a liquid. To provide maximum heat transfer, a fan is used to force air over the condenser coils when the airplane is on the ground. Ram air is used in flight.

After leaving the condenser, the refrigerant is in a high pressure liquid form. The high pressure liquid enters the receiver/dryer, where excess refrigerant and oil is stored to ensure a continuous supply. The receiver/dryer also contains a desiccant to remove moisture from the refrigerant. The refrigerant flow through the receiver/dryer helps to trap any debris that may be suspended in the refrigerant. The receiver dryer has a mechanical pressure relief device that will open and vent refrigerant if the pressure threshold is exceeded.

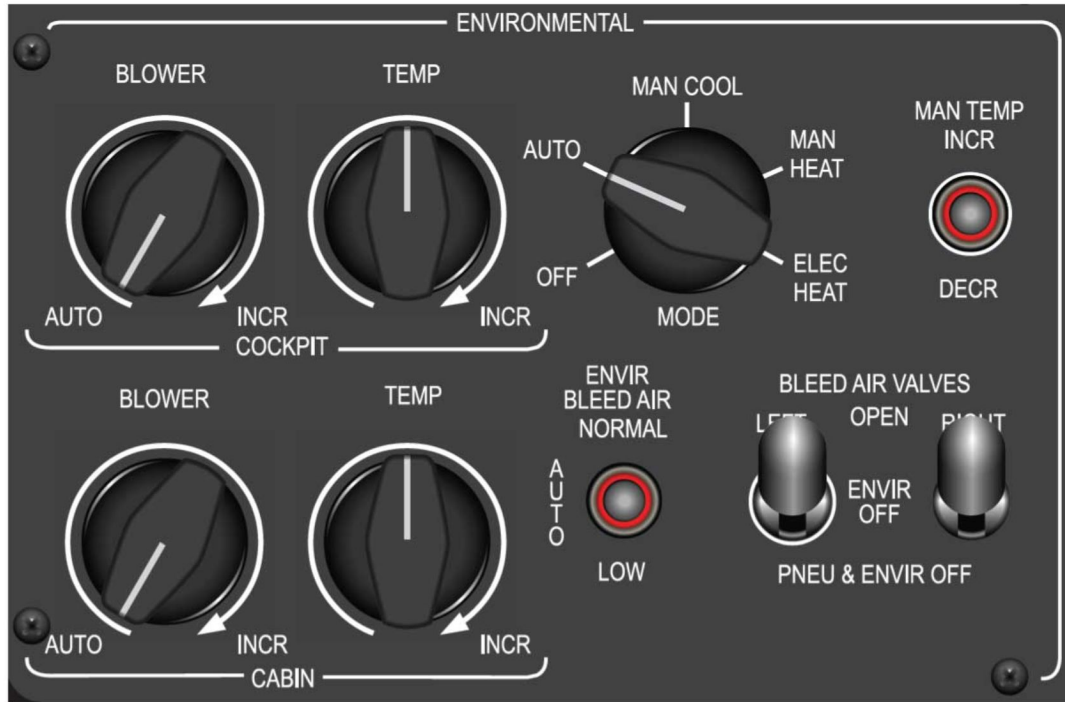
The high pressure refrigerant enters the TXVs at the cockpit and cabin evaporators. As the high pressure refrigerant passes through the TXV, it is expanded into a low pressure, low temperature liquid/vapor mixture. Each TXV uses a thermal bulb contained within the body of the valve to facilitate regulation of the refrigerant flow as necessary for different operating conditions.

After the refrigerant is converted to a low pressure, low temperature mist, it passes through the TXVs and enters the cockpit and cabin evaporators. Passenger and cockpit compartment air is blown across the evaporators by their respective evaporator fan. Cockpit and passenger compartment heat is transferred to the low pressure, low temperature refrigerant passing through the coils of the evaporators. As the refrigerant absorbs heat, it is changed to a low pressure gas. The gaseous refrigerant is then drawn from the evaporator outlet into the suction port of the compressor, at which point the cycle is repeated.



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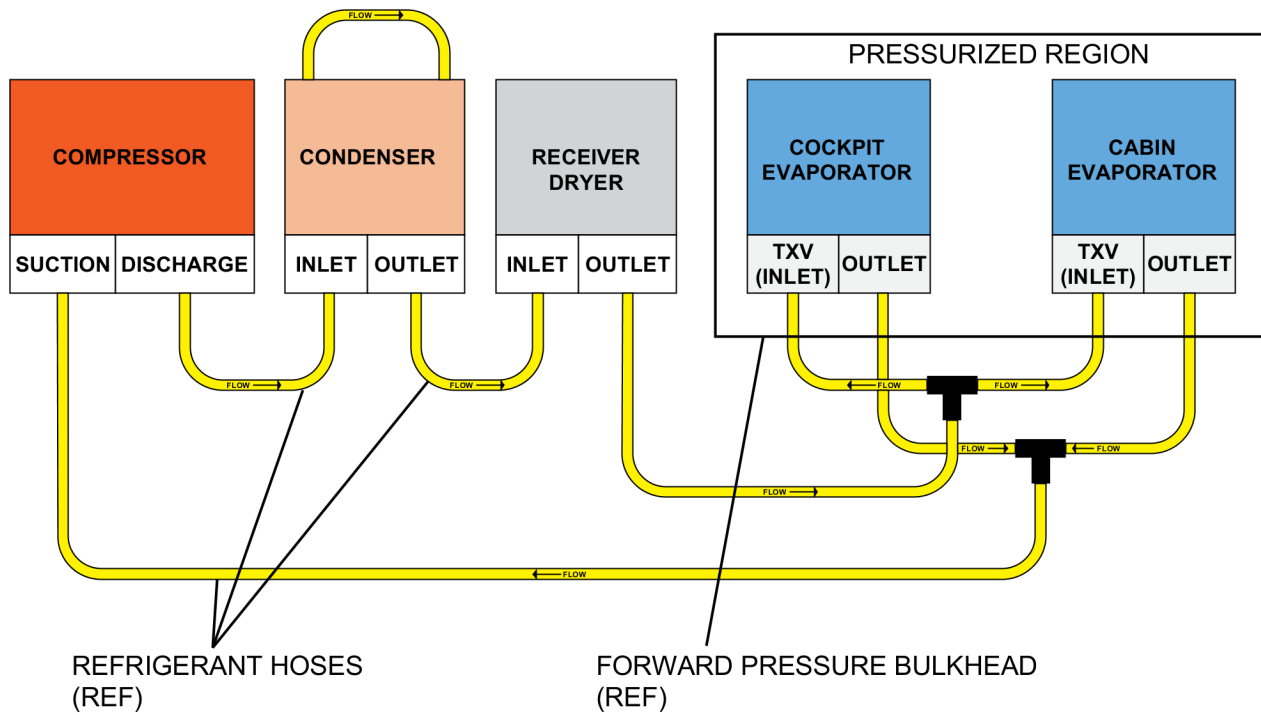
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Environmental System Control Panel  
 Figure 1 (Sheet 1)

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FUNCTIONAL BLOCK DIAGRAM

Functional Block Diagram  
 Figure 2 (Sheet 1)



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**VAPOR CYCLE COOLING SYSTEM - TROUBLESHOOTING**  
(FL-1300, FL-1307 and After; FM-110 and After)

1. Information

**WARNING:** The air conditioning system is a high pressure system. Due to the air quality control regulations enacted in the United States, it is not permitted to vent refrigerant R-134a into the atmosphere. When performing maintenance on an air-conditioning system where refrigerant R-134a can escape from the system, it will be necessary to evacuate the system with a certified recovery/recycle service unit that will recover the refrigerant.

Refer to Table 101 to troubleshoot the air-conditioning system. Charge the system whenever the refrigerant level is low, air has entered the system or components carrying refrigerant are replaced.

2. Vapor Cycle Cooling System

The vapor cycle cooling system uses the principles of temperature and pressure to move heat from the cockpit and passenger compartments to the outside air. The vapor cycle changes the refrigerant from a gas to a liquid and then back to a gas, dropping the pressure to absorb heat, and increasing pressure to release heat. Any time there is a change in pressure, there is a corresponding change in temperature. The following is a brief overview of the vapor cycle cooling system components.

A. Compressor

The compressor draws low pressure gas from the thermostatic expansion valve (TXV) through the evaporator and into the suction port. The compressor pressurizes the refrigerant which also raises the temperature, then discharges the superheated gas from the discharge port.

B. Condenser

The superheated gas from the discharge port of the compressor enters the condenser and passes through a series of coils. Outside air passing over the coils removes heat from the superheated gas. As the heat is removed, the gas condenses into a liquid. To provide maximum heat transfer, a fan is used to force air over the condenser coils when the airplane is on the ground. Ram air is used in flight.

C. Receiver/Dryer

After leaving the condenser, the refrigerant is in a high pressure liquid form. The high pressure liquid enters the receiver/dryer, where excess refrigerant and oil is stored to ensure a continuous supply. The receiver/dryer also contains a desiccant to remove moisture from the refrigerant. The refrigerant flow through the receiver/dryer helps to trap any debris that may be suspended in the refrigerant.

D. Thermostatic Expansion Valve (TXV)

The TXV is a variable restriction device. The high pressure liquid from the receiver/dryer enters the TXV and is converted to a low pressure, low temperature mist as it is forced through the metering device within the TXV.

E. Evaporator

After the refrigerant is converted to a low pressure, low temperature mist as it passes through the TXV, it enters the evaporator. Passenger compartment air is blown across the evaporator by the evaporator fan. Passenger compartment heat is transferred to the low pressure, low temperature refrigerant passing through the coils of the evaporator. As the refrigerant absorbs heat, it is converted to a low pressure gas. The gaseous refrigerant is then drawn from the evaporator outlet into the suction port of the compressor, at which point the cycle is repeated.

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### 3. System Diagnosis

It is recommended that the maintenance personnel read and become familiar with this section before attempting to troubleshoot the air conditioning system. Below are examples that can help the troubleshooting process.

#### A. Both Discharge and Suction Pressures Below Normal

When both high and low pressures are below normal, a low refrigerant charge is likely the cause. This is confirmed with low equalized gauge readings when the cooling system is off. Although the system may show a pressure differential between the high and low pressure sides, there may be insufficient refrigerant in the system to remove heat from the cabin effectively.

Low refrigerant charge is a symptom of a leak in the system. Even though a certain amount of refrigerant may still be present in the system, if the system pressure drops below the low pressure cutoff, the compressor will not engage.

Refrigerant leaks can be found by visual inspection by examining the main refrigerant system components, tubing and fittings for oil residue and droplets. An electronic leak detector can also be used. Once the leak has been located, perform the steps that follow:

- (1) Repair the leak.
- (2) Evacuate the system for a minimum of 45 minutes to remove any moisture from the system.
- (3) Recharge the system with the proper quantity of refrigerant and any oil that was removed during repair and evacuation of the system.

#### B. Low Discharge Pressure with Normal Suction Pressure

If the discharge pressure is low and the suction pressure is normal, check the system for restrictions in the discharge portion of the system. Specific areas to inspect are components between the compressor discharge port to the receiver/dryer outlet, but before the high side service port.

A restriction in the discharge (high pressure side) will usually result in a normally warm component being very hot before the restriction and abnormally cool with possible frost formation after the restriction.

The restriction must be located and the cause determined. If the restriction is due to items such as particulate matter, collapsed hose or collapsed liner, perform the steps that follow:

- (1) Replace the component with the restriction or remove the restriction by flushing the components.
- (2) Evacuate the system for a minimum of 45 minutes to remove any moisture from the system.
- (3) Recharge the system with the proper quantity of refrigerant and any oil that was removed during repair and evacuation of the system.

#### C. High Suction Pressure with Low Discharge Pressure

When the compressor is operating and the suction (low pressure) side is high and the discharge (high pressure) is lower than normal, the compressor could be failing internally and may not be able to achieve the correct pressure differential.

Another possible cause may be a restriction after the discharge (high pressure) service port but before the expansion valve. Once the location of the fault is found and corrected, perform the steps that follow:

- (1) Replace the failed compressor or component with the restriction or remove the restriction by flushing the components.
- (2) Evacuate the system for a minimum of 45 minutes to remove any moisture from the system.
- (3) Recharge the system with the proper quantity of refrigerant and any oil that was removed during repair and evacuation of the system.

#### D. Very Low Suction Pressure with Normal to Low Discharge Pressure

This symptom typically indicates moisture contamination or a malfunctioning thermostatic expansion valve (TXV).

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An excessive restriction at the TXV will cause the compressor to pump most of the refrigerant into the discharge (high pressure) side which creates a very low suction (low pressure) side pressure. A first assumption would be that since all of the refrigerant is being pumped into the discharge (high pressure) side, an excessively high pressure on the discharge side would result. However, since the compressor can still transfer heat, the refrigerant charge will lose a significant amount of heat, possibly more than normal, depending on the outside air temperature, thus lowering the actual pressure so that it appears normal or slightly low.

Additional causes that should be considered during troubleshooting are as follows:

- Debris caught in the TXV from a failing compressor, contaminates introduced while the system plumbing was open, or hose breakdown.
- Saturated desiccant in the receiver/dryer due to excessive moisture in the system thereby rendering it ineffective. Excess moisture is carried throughout the system by the refrigerant, and freezes when it reaches the pressure and temperature drop at the TXV. To check for moisture contamination, turn the system off for several minutes and then back on. If the suction (low pressure) side pressure drops gradually and stays low, the problem is most likely moisture contamination. If the suction (low pressure) side pressure drops quickly, remove the TXV and examine it for debris.

After finding and correcting the fault, perform the steps that follow:

- (1) Replace the receiver/dryer since the desiccant is contaminated.
- (2) Evacuate the system for a minimum of 45 minutes to remove any moisture from the system.
- (3) Recharge the system with the proper quantity of refrigerant and any oil that was removed during repair and evacuation of the system.

#### E. High Suction and Discharge Pressures

A condition where the suction (low pressure) side pressure is high and the discharge (high pressure) side pressure is excessively high is generally caused by little or no heat transfer from the condenser to the atmosphere. This can be caused by any of the following conditions:

- Lack of airflow through the condenser.
- Refrigerant or oil overcharge.
- Air in the system.
- Contaminated refrigerant.

Lack of airflow across the condenser will prevent heat exchange. Examine the condenser for damaged or clogged fins, or a malfunctioning condenser fan. If the condenser fins are free of debris or damage and the condenser fan is functioning properly, the system may be overcharged. Turn the system off and wait for the pressure to equalize. If the system is overcharged, higher than normal pressures will be observed on both the discharge (high pressure) and suction (low pressure) sides when the system is not operating.

Failure to properly evacuate the system before recharging is the most common cause of air in the system. Air can also be drawn into the system through a leaking suction (low pressure) side fitting.

After finding and correcting the fault, perform the steps that follow:

- (1) Evacuate the system for a minimum of 45 minutes to remove any moisture from the system.
- (2) Recharge the system with the proper quantity of refrigerant and any oil that was removed during repair and evacuation of the system.
- (3) If contaminants are suspected, perform a system flush (Ref. 21-52-01, 301). Replace the receiver/dryer (Ref. 21-52-17, 401).

## 4. Troubleshooting

The following table contains a general fault isolation guide of the vapor cycle cooling system.

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Table 101. General System Fault Isolation

CONDITION	PROBABLE CAUSE	CORRECTIVE ACTION
Aircraft power is on but system does not operate	(a) Circuit breaker is disengaged (b) Defective circuit breaker (c) Defective air conditioner mode switch (d) Pressure transducer malfunctioning or failed (e) Compressor motor over-temp engaged (f) Compressor is not engaged	(a) Engage circuit breaker (b) Replace circuit breaker (c) Replace air conditioner mode switch (d) Make sure that the system is charged with the proper pressure with gauges. Make sure that the electrical connector is connected to the pressure transducer. Make sure that the pressure transducer is properly torqued (e) Allow compressor motor to cool (f) Make sure that a ground path exists on Pin 3 of the electrical connector
System operates but does not cool	(a) Low refrigerant charge (b) System is overcharged (c) Failed compressor motor or coupling (d) Failed or clogged expansion valve (e) Evaporator(s) not operating (f) Moisture in system (g) Excessive amount of oil in refrigerant	(a) Charge system to proper amount (b) Reclaim excess refrigerant and service to correct amount (c) Replace the compressor/motor assembly (d) Flush the refrigerant system and replace the expansion valve (e) Make sure that the evaporator fans are operating and are not obstructed, check wiring to evaporator(s) (f) Reclaim refrigerant, replace receiver/dryer, service with new refrigerant (g) Reclaim refrigerant, flush refrigerant system, drain compressor oil and refill with correct amount of oil
Excessive noise or high vibration at evaporator	(a) Blower wheel out of round or unbalanced (b) Defective motor or bearing (c) Mounting hardware loose	(a) Replace blower assembly (b) Replace blower assembly (c) Tighten hardware to appropriate torque specifications
Excessive noise or high vibration at compressor	(a) Motor out of balance (b) Damaged compressor/motor coupling (c) Excessive oil in system (d) System is overcharged (e) Mounting hardware loose	(a) Replace compressor/motor assembly (b) Replace compressor/motor assembly (c) Reclaim refrigerant, flush refrigerant system, drain compressor oil and refill with correct amount of oil (d) Reclaim excess refrigerant and service to correct amount (e) Tighten hardware to appropriate torque specifications
Evaporator heat exchanger freezing	(a) Low refrigerant charge (b) Clogged expansion valve or hose	(a) Service system to proper amount (b) Flush refrigerant system, replace expansion valve.





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**VAPOR CYCLE COOLING SYSTEM - SERVICING**  
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**1. Information**

Refer to Standard Practices - Airframe Chapter 20-14-00, 201, for information on tools and equipment referenced in Table 301. Refer to Standard Practices - Airframe Chapter 20-15-00, 201, for information on recommended materials referenced in Table 301.

Table 301. Tools/Equipment and Recommended Materials

ITEM	TOOLS AND EQUIPMENT	ITEM	RECOMMENDED MATERIALS
112	Regulated Vacuum Source (capable of 20 in.Hg)	02-046	Refrigerant Fitting Lubricant
247	Recycle Service Unit	02-047	Oil (Air Conditioning)
248	Hydrocarbon Leak Detector	09-039	Refrigerant Flush Fluid
249	Flush Cart	09-049	Dry Nitrogen

**2. Vapor Cycle Cooling System**

A. Precautionary Maintenance Instructions

**WARNING: Eye protection must be worn when servicing the vapor cycle system.**

**WARNING: Do not smoke when servicing the refrigerant system. The refrigerant changes to a highly toxic gas when exposed to an open flame.**

- (1) Before attempting any service that requires opening the refrigeration plumbing, service personnel must be thoroughly familiar with the servicing instructions and be certified to operate the recovery or recycle servicing units. These instructions should be followed very carefully when performing the tasks as this will maintain the system in proper functioning order.
- (2) These measures are for safety and to prevent contaminants and moisture from entering the system. Contaminants can cause valve leakage or excessive wear in the compressor. Moisture can freeze into ice at the expansion valves, and can also cause formation of hydrochloric or hydrofluoric acids in the system.
- (3) All components are shipped sealed and dehydrated. They are to remain sealed until just prior to making connections and should be at room temperature before removing the caps and plugs from the ports. This will prevent condensation of moisture from the air that enters the system.
- (4) Do not remove caps and plugs from any component if connections are not to be made within 15 minutes. Reseal any tubes or parts where caps and plugs have been removed if it is determined that the connections will not be made within 15 minutes.
- (5) All precautions must be taken to prevent damage to the fittings or connections. Even minute damage to a connection can cause a leak. Any fittings with dirt or grease should be cleaned with a cloth dampened with isopropyl alcohol. Do not use chlorinated solvents such as trichloroethylene or prechloroethylene as these are considered to be contaminants. If dirt,

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grease or moisture enters the system and cannot be removed, the contaminated components must be replaced. Use a small amount of fitting lubricant and sealant (02-046, Table 301) or oil on all tubing connections and packings before assembly.

**NOTE:** The receiver-dryer is the last component to be connected. This is necessary to make sure of maximum moisture protection of the refrigerant system. Any time the system is opened to atmosphere, it is recommended that the receiver-dryer be replaced.

B. Vapor Cycle Cooling System Maintenance Notes

**WARNING: Eye protection must be worn when servicing the vapor cycle system.**

**WARNING: Do not smoke when servicing the refrigerant system. The refrigerant changes to a highly toxic gas when exposed to an open flame.**

**NOTE:** Refer to Figure 304 for a schematic diagram of the vapor cycle cooling system.

- (1) The vapor cycle cooling system is a high pressure system. Before disconnecting a refrigerant line, the system must be discharged with a recovery or recycle servicing unit (247, Table 301). The system must be purged to a 125 micron level.
- (2) Use only the refrigerant for which the system was designed to operate with. Do not mix refrigerants. Other refrigerants, particularly those containing methyl chloride will cause rapid deterioration of the aluminum components.

**CAUTION:** Insufficient tightening can result in loose connections. Excessive tightening can result in deformed connecting parts. Either condition can result in refrigerant leakage.

- (3) The typical order of operations when opening the system for component replacement or full gas replacement or servicing is as follows;
  - (a) Initial Leak Check (Optional, if a leak is suspected the system should be leak checked as a first step.)
  - (b) Reclamation of Refrigerant.
  - (c) Cleaning/Flushing (Optional, typically required if the system is suspected of contaminants or if the amount of oil in the system is suspected of being incorrect.)
  - (d) Replacement of components and performing repair work as necessary.
  - (e) Oil fill
  - (f) Evacuation
  - (g) Charging the System

C. Vapor Cycle Cooling System Refrigerant and Oil Capacities

**NOTE:** Refer to Table 302. The table column identified as (1) is the total quantity of oil in fluid ounces in the system, (2) is the quantity of oil in fluid ounces charged to a new compressor before it is shipped, (3) is the quantity of oil in fluid ounces which must be added to the system before initial operation.

If simple conversions have been accomplished (Refrigerant change without compressor change) rely on kit instructions for proper servicing levels. If compressor type changes have occurred rely on applicable kit directions which should meet the serial group class for refrigerant type used (Ref. Table 302).

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Table 302. Vapor Cycle System Refrigerant Capacities

Serial Group	Refrig. Type	Sys. Refrig. Qty., Pounds	Oil Type	(1) Sys. Oil Qty., Fl. Oz.	(2) New Comp. Oil, Fl. Oz.	(3) Add. Oil, Fl. Oz.
FL and FM	R-134a	3.6	POE 46	8	6.5 (All)	1.5

- D. Checking the Refrigerant Level  
 (1) The only way to make sure of a proper charge of R-134a systems is to recover the refrigerant currently in the system and to recharge with the proper amount of refrigerant.
- E. Checking the Oil Level  
 (1) Measuring the oil accurately for in-service vapor cycle systems is not possible. If the oil level is suspected to be incorrect, the system should be evacuated, flushed and then serviced back to correct levels.
- F. Leak Detection  
 (1) If a loss of refrigerant is suspected, the plumbing system should be inspected to determine the source of the leak.  
 (2) Visual leak detection can be used to locate large leaks. Large leaks will typically show as an oil spot around the leak due to the oil being carried out by the escaping refrigerant.  
 (3) Detergent leak detection is performed by applying a water and detergent solution to the suspected area. Bubbles may form if leaks are present. The system should have a pressure greater than 50 PSI for this method to work. For new or empty systems, they can be pressurized with dry nitrogen for purposes of leak checking.  
 (4) Electronic leak checking is performed by using an electronic leak detector. Either a R-134a detector (232, Table 301) or a more sensitive hydrogen detector (248, Table 301) can be used. The hydrogen detector can only be used on a new or empty system, as the system will be charged to a pressure greater than 50 PSI using a blend of 95% nitrogen and 5% hydrogen for leak detection purposes.
- G. Reclamation of Refrigerant

**WARNING: The air conditioning system is a high pressure system. Due to the air quality control regulations enacted in the United States, it is not permitted to vent refrigerant R-134a into the atmosphere. When performing maintenance on a vapor cycle system where refrigerant R-134a can escape from the system, it will be necessary to evacuate the system with a certified recovery/recycle service unit that will recover the refrigerant.**

Use a recovery/recycle service unit to depressurize the refrigerant system. A qualified air conditioning serviceman is required to operate the service equipment. Refrigerant service ports are located on the left side of the nose wheel well.

- (1) Connect the recovery/recycle service unit to the service valves on the airplane (Ref. Figure 301).
  - (2) If possible, operate the vapor cycle system for five minutes. This will collect as much oil as possible in the compressor.
  - (3) Turn off the vapor cycle system and take note of oil level on the refrigerant recovery/recycle service unit.
  - (4) Discharge the vapor cycle system in accordance with the recovery/recycle service unit's instructions.
  - (5) Note the amount of compressor oil removed from the system during discharging. If a complete flushing of the system is not performed, this amount of oil will need to be added back to the system during charging.
  - (6) Disconnect and remove the recovery/recycle service unit when discharging is complete.
- H. Cleaning/Flushing  
 (1) Reclaim all refrigerant from the vapor cycle cooling system.

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- (2) Perform the COMPRESSOR ASSEMBLY REMOVAL procedure (Ref. 21-52-03, 401).
- (3) Remove the oil from the compressor by placing it in a position which will allow the oil to drain from the high and low pressure hose fittings.

**NOTE:** Four hours is the recommended time for maximum oil removal.

- (4) Perform the RECEIVER/DRYER REMOVAL procedure (Ref. 21-52-17, 401).
- (5) Connect the receiver/dryer inlet and outlet hoses together with a suitable union.
- (6) On the left sidewall of the nose gear well, disconnect the aft fittings of the discharge (high pressure) and suction (low pressure) hoses from the bulkhead fittings (Ref. Figure 301, Detail A). Install caps on the open ports of the two bulkhead fittings.
- (7) Connect the two open hose ends together with a suitable union.
- (8) Disconnect the expansion valve inlet hose and the evaporator outlet hose from the cockpit evaporator (Ref. Figure 302, View B-B).
- (9) Connect the open ends of expansion valve inlet hose and the evaporator outlet hose together with a suitable union.
- (10) Replace any components that require replacement before flushing the system.
- (11) In the nose section where the compressor assembly was located, connect the discharge hose of the flush cart (249, Table 301) to the compressor discharge (high pressure) hose and the pressure hose to the compressor suction (low pressure) hose.
- (12) Fill the flush cart reservoir to capacity with flush fluid (09-039, Table 301).
- (13) Start the flush cart to begin pumping flush fluid into the system. If necessary, continue to add fluid to the flush cart reservoir until five gallons of flush fluid is pumped into the system.
- (14) Run the flush cart for a minimum period of 10 minutes.
- (15) After 10 minutes, stop the flush cart and reverse the discharge and pressure hose connections to the compressor discharge and suction hoses. This will reverse the direction of flush fluid flow through the system.
- (16) Start and run the flush cart for a minimum period of 10 minutes.
- (17) After 10 minutes, stop the flush cart and reverse the discharge and pressure hose connections to the compressor discharge and suction hoses. This will once again reverse the direction of flush fluid flow through the system.
- (18) Start and run the flush cart for a minimum period of 10 minutes.
- (19) After 10 minutes, stop the flush cart and disconnect the discharge and pressure hoses from the compressor discharge (high pressure) and compressor suction (low pressure) hoses.
- (20) Purge the system of flush fluid with dry nitrogen (09-049, Table 301).
- (21) Remove the union connecting the expansion valve inlet hose and the evaporator outlet hose.
- (22) Apply refrigerant fitting lubricant (02-046, Table 301) to the threads of the TXV module hose fittings. Connect the expansion valve inlet hose and the evaporator outlet hose to the TXV module (Ref. Figure 302, View B-B).
- (23) Remove the union connecting the high and low pressure hose ends together.
- (24) On the left sidewall of the nose gear well, remove the caps from the discharge (high pressure) and suction (low pressure) bulkhead fittings. Connect the discharge and suction hoses that were disconnected in Step (6) to the discharge (high pressure) and suction (low pressure) bulkhead fittings (Ref. Figure 301, Detail A).
- (25) On the right side of the nose gear well, disconnect the high and low pressure hoses from the bulkhead fittings (Ref. Figure 301, View B-B). Install caps on the open ports of the two bulkhead fittings.
- (26) Connect the two open hose ends together with a suitable union.
- (27) Disconnect the expansion valve inlet hose and the evaporator outlet hose from the cabin evaporator (Ref. Figure 303, Detail B).
- (28) Connect the open ends of the expansion valve inlet hose and the evaporator outlet hose with a suitable union.
- (29) Connect the discharge hose of the flush cart (249, Table 301) to the compressor discharge (high pressure) hose and the pressure hose to the compressor suction (low pressure) hose. Refill the flush cart reservoir with flush fluid (09-039, Table 301) as necessary.
- (30) Start the flush cart to begin pumping flush fluid into the system. If necessary, continue to add fluid to the flush cart reservoir until five gallons of flush fluid is pumped into the system.
- (31) Run the flush cart for a minimum period of 10 minutes.

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- (32) After 10 minutes, stop the flush cart and reverse the discharge and pressure hose connections to the compressor discharge and suction hoses. This will reverse the direction of flush fluid flow through the system.
- (33) Start and run the flushing cart for a minimum period of 10 minutes.
- (34) After 10 minutes, stop the flush cart and reverse the discharge and pressure hose connections to the compressor discharge and suction hoses. This will once again reverse the direction of flush fluid flow through the system.
- (35) Start and run the flush cart for a minimum period of 10 minutes.
- (36) After 10 minutes, stop the flush cart and disconnect the discharge and pressure hoses from the compressor discharge (high pressure) and compressor suction (low pressure) hoses.
- (37) Purge the system of flush fluid with dry nitrogen (09-049, Table 301).
- (38) Remove the union connecting the expansion valve inlet hose and the evaporator outlet hose.
- (39) Apply refrigerant fitting lubricant (02-046, Table 301) to the threads of the TXV module hose fittings. Connect the expansion valve inlet hose and the evaporator outlet hose to the TXV module (Ref. Figure 303, Detail B).
- (40) Remove the union connecting the high and low pressure hose ends together.
- (41) On the right sidewall of the nose gear well, remove the caps from the discharge (high pressure) and suction (low pressure) bulkhead fittings. Connect the discharge and suction hoses that were disconnected in Step (25) to the discharge (high pressure) and suction (low pressure) bulkhead fittings (Ref. Figure 301, View B-B).
- (42) Purge the system with dry nitrogen (09-049, Table 301) for a period of 20 minutes.
- (43) Remove the union that connects the receiver/dryer hose ends together.
- (44) Perform the RECEIVER/DRYER INSTALLATION procedure (Ref. 21-52-17, 401).
- (45) Perform the COMPRESSOR ASSEMBLY INSTALLATION procedure (Ref. 21-52-03, 401). Make sure that the compressor has the correct amount of oil upon installation.

I. Evacuating

**WARNING: The air conditioning system is a high pressure system. Due to the air quality control regulations enacted in the United States, it is not permitted to vent refrigerant R-134a into the atmosphere. When performing maintenance on a vapor cycle system where refrigerant R-134a can escape from the system, it will be necessary to evacuate the system with a certified recovery/recycle service unit that will recover the refrigerant.**

**NOTE:** Evacuating the system will remove any moisture from the system. The system must be evacuated prior to charging the system with refrigerant.

**NOTE:** The vacuum unit (112, Table 301) must be capable of sustaining a vacuum of 25 in. Hg or lower and the gauges used must be capable of indicating a vacuum of 25 in. Hg or less.

- (1) Connect the recovery/recycle unit (247, Table 301) to the service valves located in the nose wheel well. If recovery/recycle unit does not have pressure gages, connect service pressure gages to the vapor cycle system (Ref. Figure 301).
- (2) Start the vacuum pump (112, Table 301) and slowly open the vacuum valve until it is fully open.
- (3) Open the ballast valve on the vacuum pump slightly. Allow the vacuum pump to run in this manner for a minimum of 30 minutes.
- (4) Close the ballast valve and evacuate the system to 25 in. Hg for 15 minutes.

**NOTE:** The system should achieve 25 to 27 in. Hg within 10 to 15 minutes. Any changes in the vacuum reading or failure to achieve a system vacuum of 29 in. Hg indicates the presence of a plumbing leak. Perform the leak check procedure to locate and repair any leaks.

J. Oil Fill

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As measurement of the oil level is not possible for an in-service system, care must be taken to properly flush and fill the system with a known amount when the system's current amount is unknown. If the amount of oil in the system is known, then servicing can be accomplished by adding back to the system any amount of oil removed and measured during the reclamation procedure and the amount of oil drained from any related components.

- (1) Compressor Oil Charge
  - (a) In R-134a systems, new compressors use oil (02-047, Table 301) and are charged with R-134a refrigerant (09-035, Table 301) and dry nitrogen to provide a pressure that is slightly above atmospheric pressure.
  - (b) As the amount of oil may vary, all compressors should be drained by inverting on the bench for a minimum of one hour to make sure that the correct amount of oil is added in the next step. The recommended draining time period is four hours.
  - (c) Refill the drained compressor with the amount and type of oil specified in Table 302.
- (2) System Oil Charge
  - (a) The remainder of the oil charge should be placed into the system either prior to evacuation or using the service cart oil charge port if available.
  - (b) If the oil is placed into the system prior to the evacuation procedure, care should be taken to not vacuum out the oil during the evacuation procedure, either by adding the oil across multiple components in the system or by adding it to one service port and applying vacuum on the other.

K. Charging

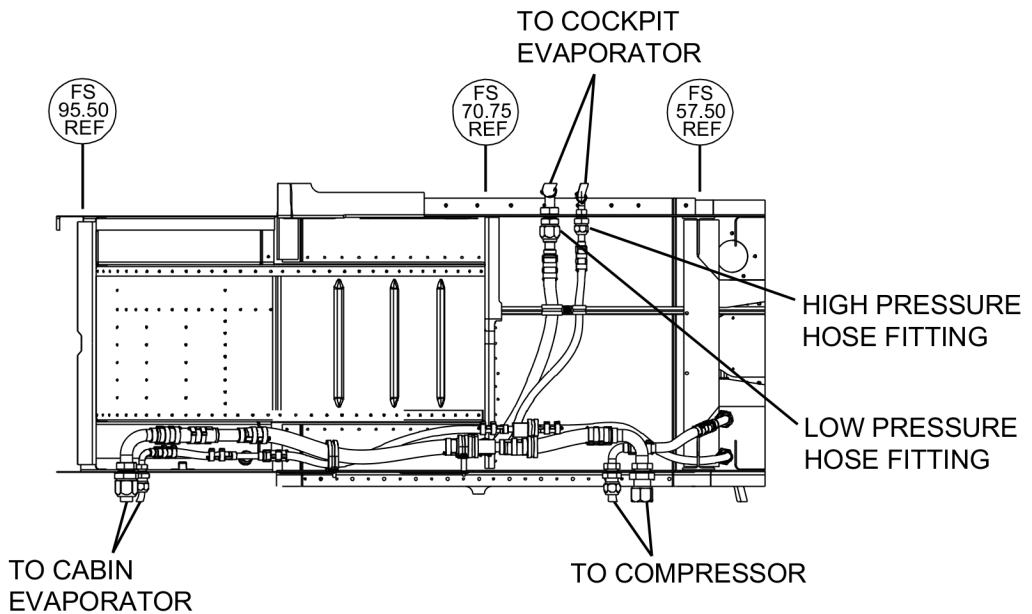
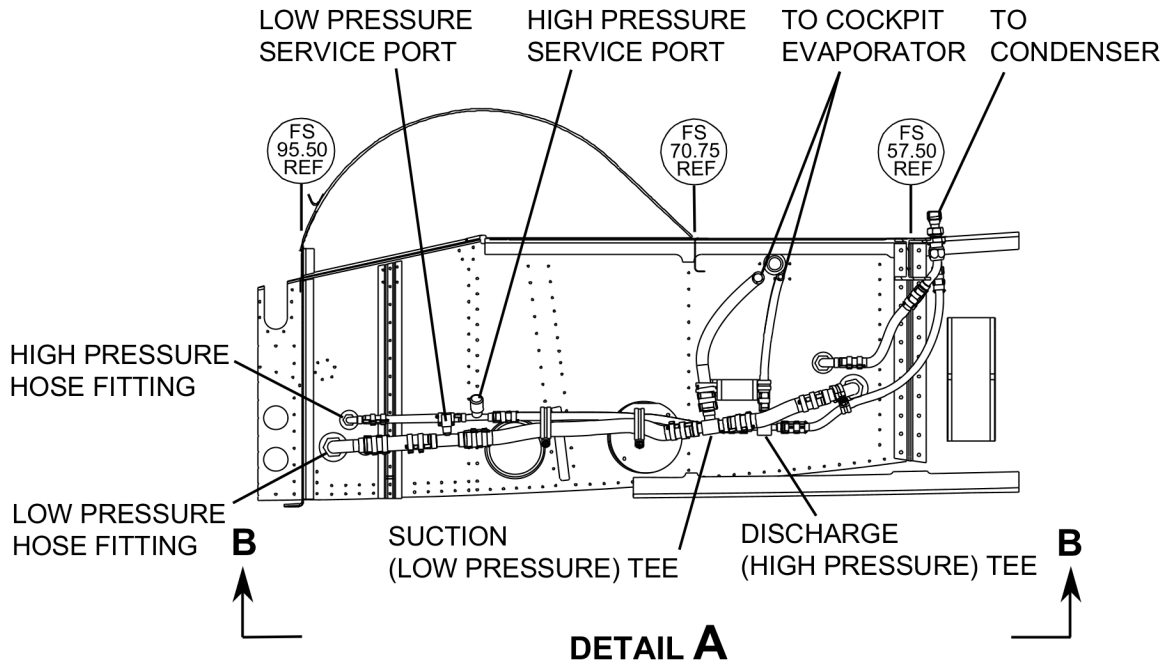
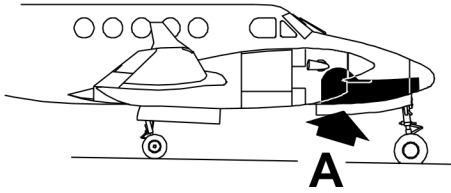
**WARNING: The air conditioning system is a high pressure system. Due to the air quality control regulations enacted in the United States, it is not permitted to vent refrigerant R-134a into the atmosphere. When performing maintenance on a vapor cycle system where refrigerant R-134a can escape from the system, it will be necessary to evacuate the system with a certified recovery/recycle service unit that will recover the refrigerant.**

Use a recovery/recycle service unit to charge the refrigerant system. A qualified air conditioning serviceman is required to operate the service equipment. Refrigerant service ports are located on the left side of the nose wheel well.

- (1) Connect the recovery/recycle service unit to the service valves on the airplane.
- (2) Perform the EVACUATING procedure (Ref. Paragraph 2.I.).
- (3) Perform the OIL FILL procedure (Ref. Paragraph 2.J).
- (4) Charge the vapor cycle system in accordance with the recovery/recycle service unit's instructions to the required capacity (Ref. Table 302).
- (5) Disconnect and remove the recovery/recycle service unit when charging is complete.

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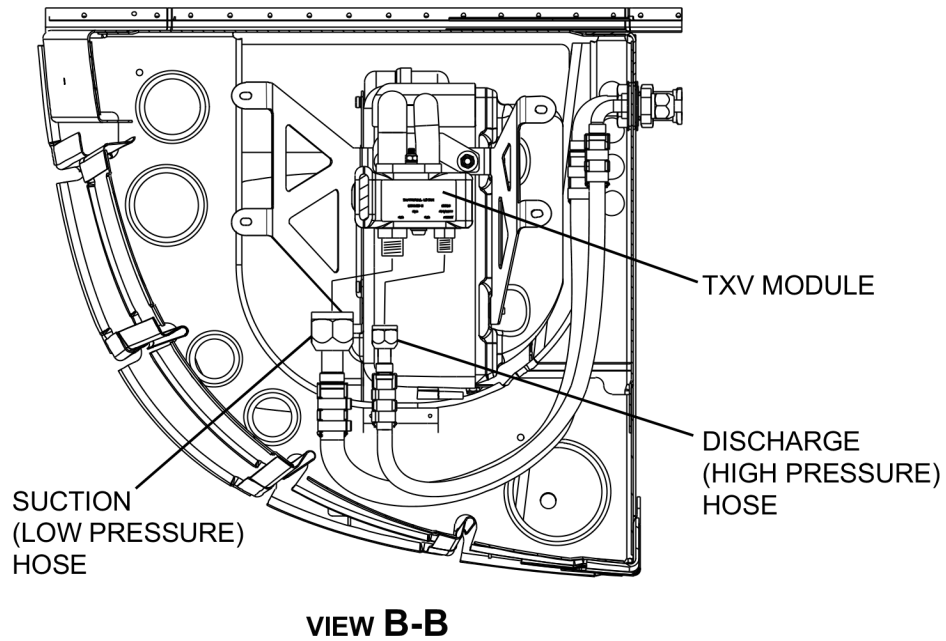
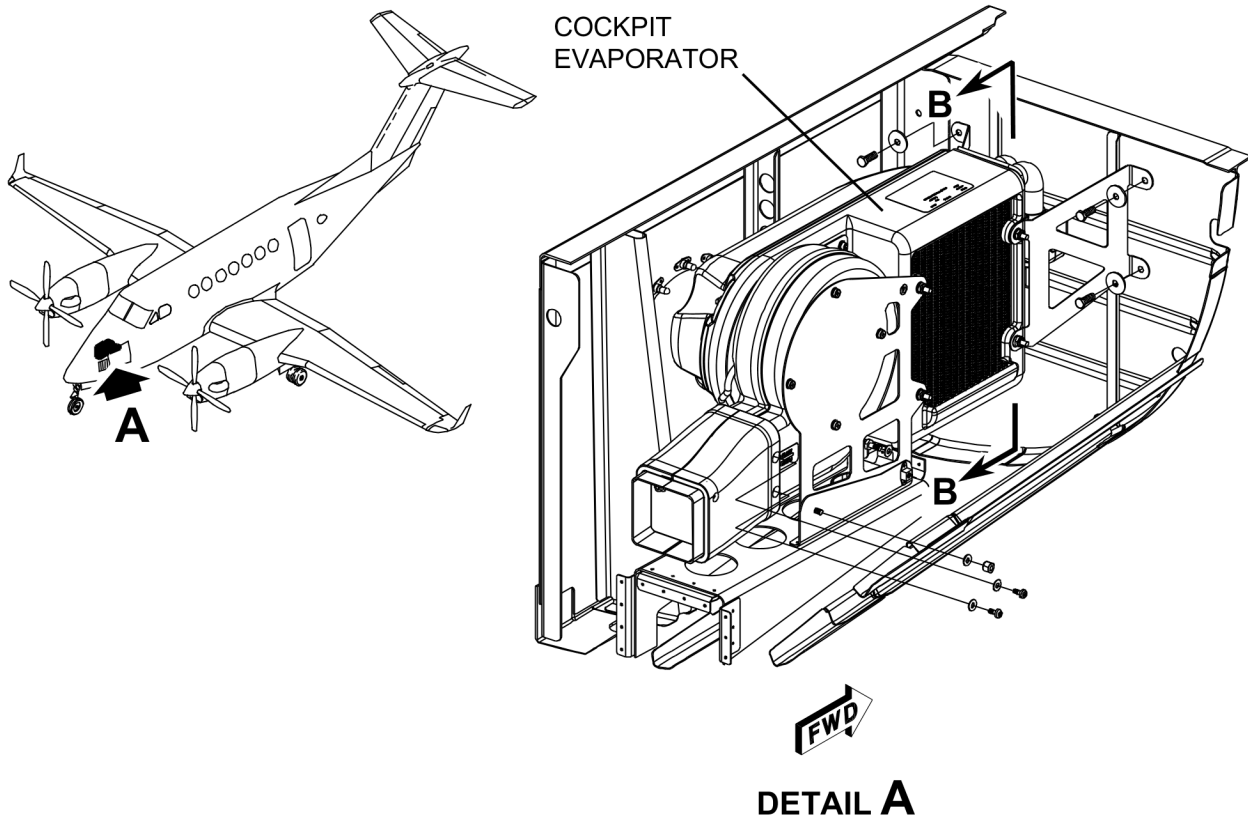


**VIEW B-B**

Nose Wheel Well Service Valves  
 Figure 301 (Sheet 1)

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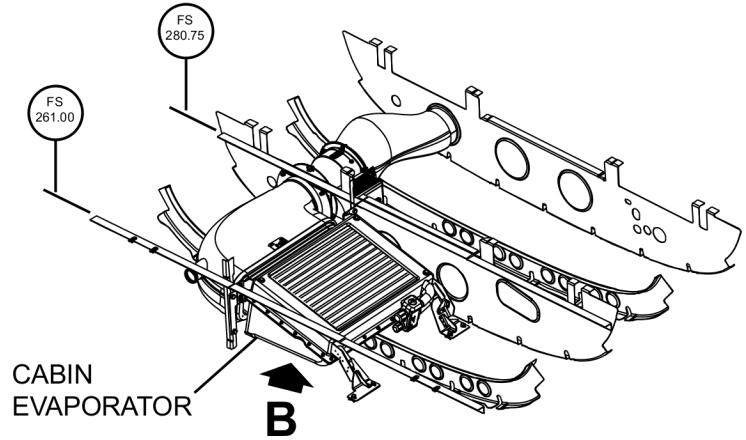
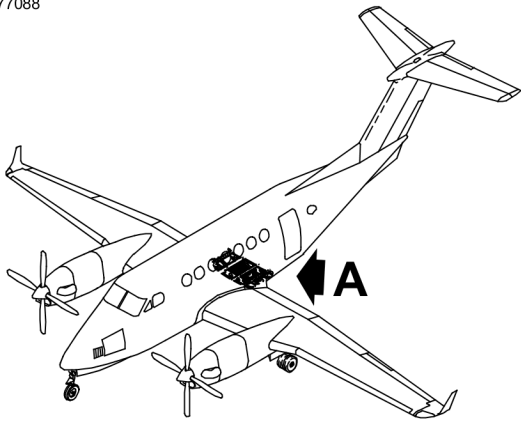


Cockpit Evaporator Installation  
Figure 302 (Sheet 1)

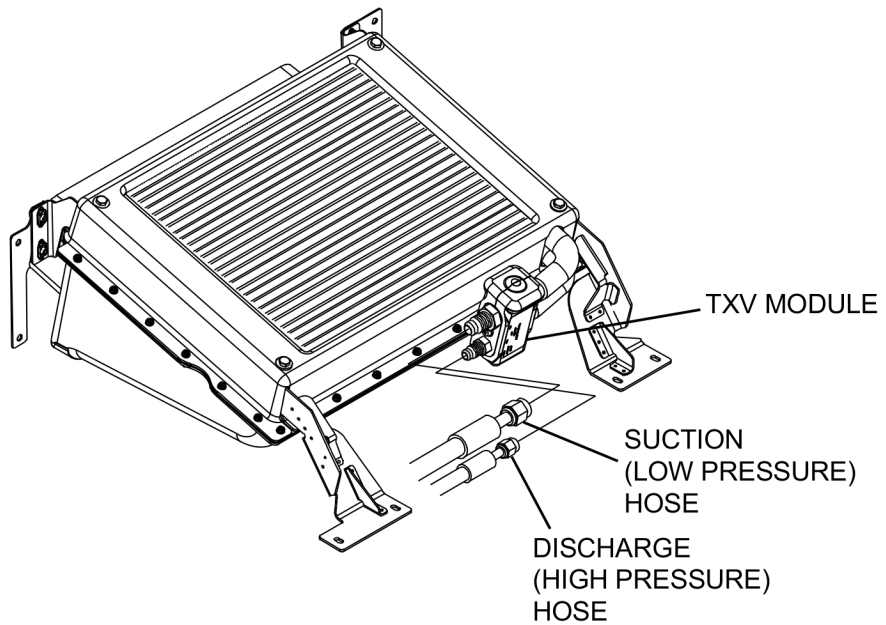


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**DETAIL A**



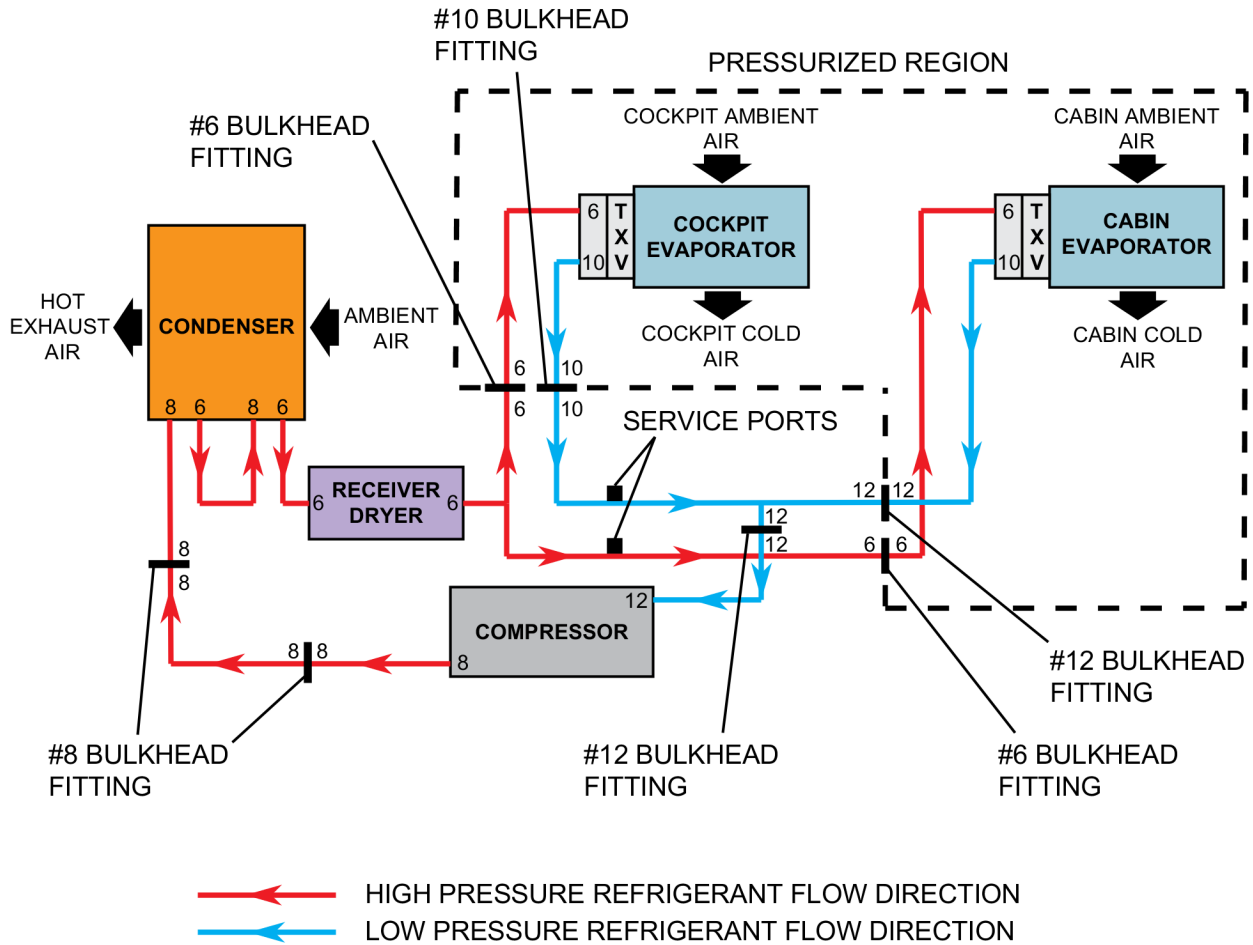
**DETAIL B**

(TRANSITION DUCT AND STRUCTURE NOT SHOWN FOR CLARITY)

Cabin Evaporator Installation  
Figure 303 (Sheet 1)

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Vapor Cycle Cooling System Schematic Diagram  
 Figure 304 (Sheet 1)



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**VAPOR CYCLE COOLING SYSTEM - INSPECTION/CHECK**  
(FL-1300, FL-1307 and After; FM-110 and After)

**1. Description**

- A. This document provides the inspection tasks to inspect the vapor cycle cooling system. Refer to Chapter 21-52-00, 001 for more information on the vapor cycle cooling system.

Task 21-52-01-2100

**2. Condenser Blower General Visual Inspection**

- A. Task Preparation.
- (1) Special Tools and Equipment.
    - This task does not require the use of any special tools or equipment.
  - (2) Special Consumables.
    - This task does not require the use of any special consumables.
  - (3) External Reference Material.
    - This task does not require the use of any external reference materials.
- B. Configure the Airplane.
- (1) Get access to the condenser blower located in the nose avionics bay (Ref. 21-51-15, 401).
    - (a) Remove the right nose avionics bay panel, 222CR (Ref. 06-50-00, 001).
- C. Complete the Condenser Blower General Visual Inspection.
- (1) Inspect condenser blower brackets and mounts for corrosion, security and attachment.
  - (2) Inspect for loose or missing hardware.
  - (3) Inspect condenser blower for damage and obstruction.
  - (4) Inspect fittings for dirt build-up, excess grease and overall cleanliness.
  - (5) Inspect for moisture build-up.
  - (6) Inspect electrical connectors and wires for damage, proper routing and chafing.
  - (7) If a discrepancy is found, remove and replace as necessary (Ref. 21-51-15, 401).
- D. Return the airplane to its initial condition, as necessary.
- (1) Install the right nose avionics bay panel, 222CR (Ref. 06-50-00, 001).

End of task

Task 21-52-01-2101

**3. Receiver/Dryer General Visual Inspection**

- A. Task Preparation.
- (1) Special Tools and Equipment.
    - This task does not require the use of any special tools or equipment.
  - (2) Special Consumables.
    - This task does not require the use of any special consumables.
  - (3) External Reference Material.
    - This task does not require the use of any external reference materials.
- B. Configure the Airplane.
- (1) Get access to the Receiver/Dryer.
    - (a) Remove access panel, 223BTC (Ref. 06-50-00, 001).
- C. Complete the Receiver/Dryer General Visual Inspection.
- (1) Inspect receiver/dryer brackets and mounts for corrosion, security and attachment.
  - (2) Inspect for loose or missing hardware.
  - (3) Inspect receiver/dryer for damage and obstruction.
  - (4) Inspect fittings for dirt build-up, excess grease and overall cleanliness.
  - (5) Inspect for moisture build-up.
  - (6) Inspect electrical connectors and wires for damage, proper routing and chafing.

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(7) If a discrepancy is found, remove and replace as necessary (Ref. 21-51-17, 401).

- D. Return the airplane to its initial condition, as necessary.  
(1) Install access panel, 223BTC (Ref. 06-50-00, 001).

End of task

Task 21-52-01-2102

#### 4. Cockpit Evaporator General Visual Inspection

- A. Task Preparation.
- (1) Special Tools and Equipment.
    - This task does not require the use of any special tools or equipment.
  - (2) Special Consumables.
    - This task does not require the use of any special consumables.
  - (3) External Reference Material.
    - This task does not require the use of any external reference materials.
- B. Configure the Airplane.
- (1) Get access to the Cockpit Evaporator located in the nose avionics bay (Ref. 21-51-19, 401).
    - (a) Remove the right nose avionics bay panel, 222CR (Ref. 06-50-00, 001) and the two access panels in the right side of the nose gear wheel well.
- C. Complete the Cockpit Evaporator General Visual Inspection.
- (1) Inspect cockpit evaporator brackets and mounts for corrosion, security and attachment.
  - (2) Inspect for loose or missing hardware.
  - (3) Inspect cockpit evaporator for damage and obstruction.
  - (4) Inspect fittings for dirt build-up, excess grease and overall cleanliness.
  - (5) Inspect for moisture build-up.
  - (6) Inspect electrical connectors and wires for damage, proper routing and chafing.
  - (7) If a discrepancy is found, remove and replace as necessary (Ref. 21-51-19, 401).
- D. Return the airplane to its initial condition, as necessary.
- (1) Install the right nose avionics bay panel, 222CR (Ref. 06-50-00, 001) and the two access panels in the right side of the nose gear wheel well.

End of task

Task 21-52-01-2103

#### 5. Cabin Evaporator General Visual Inspection

- A. Task Preparation.
- (1) Special Tools and Equipment.
    - This task does not require the use of any special tools or equipment.
  - (2) Special Consumables.
    - This task does not require the use of any special consumables.
  - (3) External Reference Material.
    - This task does not require the use of any external reference materials.
- B. Configure the Airplane.
- (1) Get access to the condenser blower located under center aisle cabin floor.
    - (a) Remove center aisle floorboard panels 163DCL and 163CCR.(Ref. 06-50-00, 001).
- C. Complete the Cabin Evaporator General Visual Inspection.
- (1) Inspect cabin evaporator brackets and mounts for corrosion, security and attachment.
  - (2) Inspect for loose or missing hardware.
  - (3) Inspect cabin evaporator for damage and obstruction.
  - (4) Inspect fittings for dirt build-up, excess grease and overall cleanliness.
  - (5) Inspect for moisture build-up.
  - (6) Inspect electrical connectors and wires for damage, proper routing and chafing.

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(7) If a discrepancy is found, remove and replace as necessary (Ref. 21-51-27, 401).

D. Return the airplane to its initial condition, as necessary.

(1) Install center aisle floorboard panels 163DCL and 163CCR.(Ref. 06-50-00, 001).

End of task



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**COMPRESSOR ASSEMBLY - REMOVAL/INSTALLATION**  
(FL-1300, FL-1307 and After; FM-110 and After)

1. **Compressor Assembly**

A. Removal

**WARNING: The air conditioning system is a high pressure system. Due to the air quality control regulations enacted in the United States, it is not permitted to vent refrigerant R134a into the atmosphere. When performing maintenance on a vapor cycle system where refrigerant R134a can escape from the system, it will be necessary to evacuate the system with a certified recovery/recycle service unit that will recover the refrigerant.**

- (1) Perform the RECLAMATION OF REFRIGERANT procedure (Ref. 21-52-01, 301).
- (2) Perform the BATTERY POWER DISCONNECT procedure (Ref. 24-30-01, 201).
- (3) Remove the center aisle carpet forward of the main spar.
- (4) Remove floorboards 153DCL and 153 CCR located forward of the main spar (Ref. 06-50-00).
- (5) On the main power distribution panel, disengage the COMPRESSOR circuit breaker.
- (6) Open the left forward avionics access door 221CL (Ref. 06-50-00)..
- (7) Perform the INTEGRATED CARD CAGE (ICC-3000) REMOVAL procedure (Ref. 31-40-01, 401).
- (8) Perform the No. 1 ATTITUDE HEADING COMPUTER (AHC-3000) REMOVAL procedure (Ref. 34-20-01, 401).
- (9) Remove the left forward avionics bay aft floor panel 121BTL (Ref. 06-50-00).
- (10) Tag and disconnect the compressor motor power and ground cables from the motor power and ground connections (9) and (13) on the compressor assembly (1) (Ref. Figure 401, Detail C).
- (11) Disconnect the compressor control electrical connector (17) from the compressor assembly (1). Install a cap on the wire harness connector.
- (12) Tag and disconnect the lines from the discharge and suction ports (7) and (8) on the compressor assembly (1). Install caps and plugs on and in the open fittings of the lines and the compressor assembly (Ref. Figure 401, Detail B).
- (13) Remove the four pins (6), nuts (5), washers (4), lock washers (3) and bolts (2) that attach the compressor assembly (1) to the mounting base.
- (14) Remove the compressor assembly (1) from the airplane.
- (15) If necessary due to contamination or removal of all oil from the system, perform the CLEANING/ FLUSHING procedure (Ref. 21-52-01, 301).

B. Installation

- (1) Place the compressor assembly on the mounting base and align the four attaching hardware holes with the four shock mounts on the mounting base.
- (2) Install the four bolts (2), lock washers (3), washers (4), nuts (5) and pins (6) that attach the compressor assembly to the mounting base (Ref. Figure 401, Detail B).
- (3) Remove the caps and plugs and connect the lines to the discharge and suction ports (7) and (8) on the compressor assembly (1) (Ref. Figure 401, Detail B). Remove the tags from the lines once the connections are completed.
- (4) Remove the cap and connect the compressor control electrical connector (17) to the compressor assembly (Ref. Figure 401, Detail C).
- (5) Connect the power and ground cables to the motor power and ground connections (9) and (13) on the compressor assembly (1). Remove the tags from the cables once the connections are completed.
- (6) Use an ohmmeter to measure the resistance between the compressor assembly (1) and the airplane structure. The resistance must not be more than 0.0025 ohms.
- (7) On the main power distribution panel, engage the COMPRESSOR circuit breaker.
- (8) Install floorboard panels 153DCL and 153CCR located forward of the main spar (Ref. 06-50-00).
- (9) Install the center aisle carpet forward of the main spar.
- (10) Perform the BATTERY POWER CONNECT procedure (Ref. 24-30-01, 201).

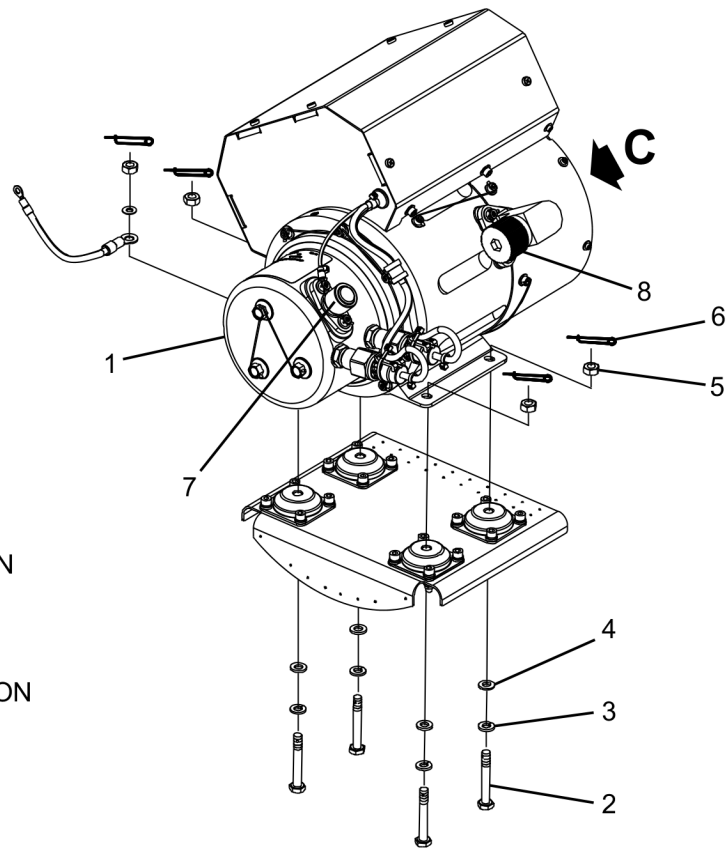
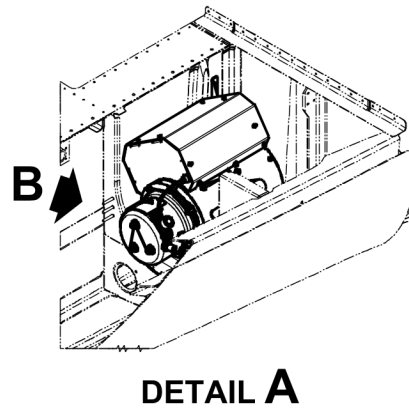
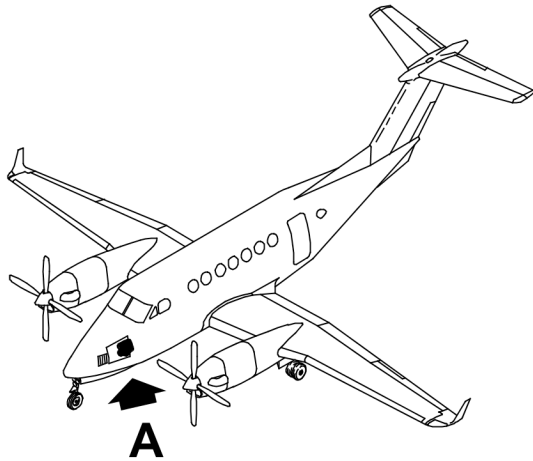


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- (11) Perform the EVACUATING, OIL FILL and CHARGING procedures (Ref. 21-52-01, 301).
- (12) Operate the air conditioning system and check the compressor assembly for leaks and proper operation.
- (13) Install the left forward avionics bay aft floor panel 121BTL (Ref. 06-50-00).
- (14) Perform the No. 1 ATTITUDE HEADING COMPUTER (AHC-3000) INSTALLATION procedure (Ref. 34-20-01, 401).
- (15) Perform the INTEGRATED CARD CAGE (ICC-3000) INSTALLATION procedure (Ref. 31-40-01, 401).
- (16) Close the left forward avionics access door 221CL (Ref. 06-50-00)..

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- 1. COMPRESSOR ASSEMBLY
- 2. BOLT (4 TOTAL)
- 3. LOCK WASHER (4 TOTAL)
- 4. WASHER (4 TOTAL)
- 5. NUT (4 TOTAL)
- 6. PIN (4 TOTAL)
- 7. DISCHARGE PORT
- 8. SUCTION PORT
- 9. MOTOR POWER CONNECTION
- 10. NUT
- 11. LOCK WASHER
- 12. WASHER
- 13. MOTOR GROUND CONNECTION
- 14. BOLT
- 15. LOCK WASHER
- 16. WASHER
- 17. COMPRESSOR CONTROL ELECTRICAL CONNECTOR

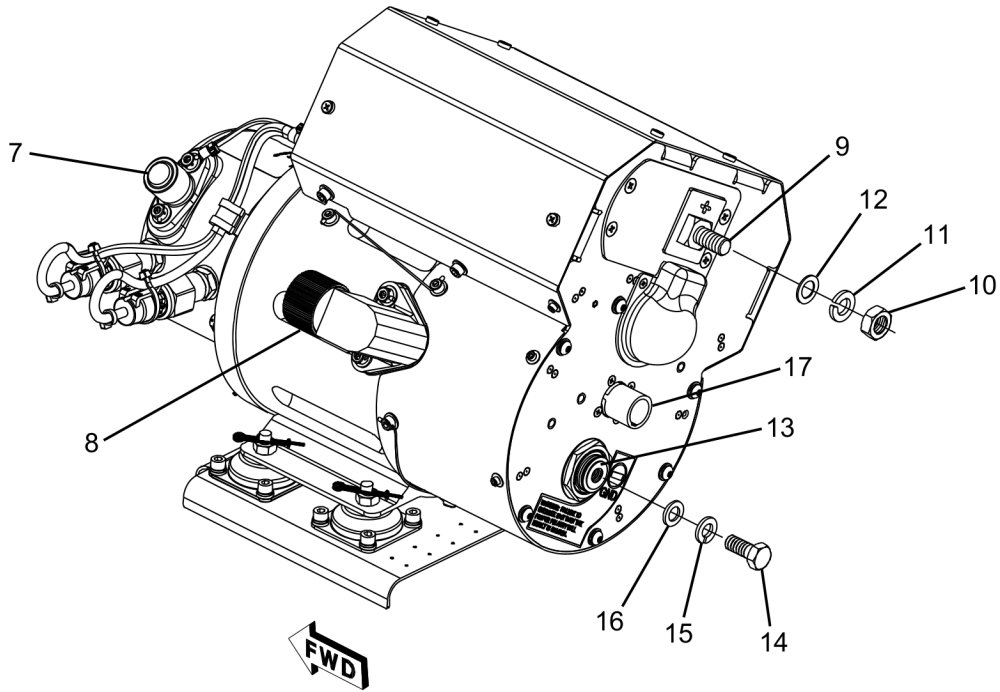
**DETAIL B**

(NOSE STRUCTURE COMPONENTS OMITTED FOR CLARITY)

Compressor Installation  
 Figure 401 (Sheet 1)

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**DETAIL C**

Compressor Installation  
Figure 401 (Sheet 2)



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**CONDENSER ASSEMBLY - REMOVAL/INSTALLATION**  
 (FL-1300, FL-1307 and After; FM-110 and After)

**1. Information**

Refer to Standard Practices - Airframe Chapter 20-14-00, 201, for information on tools and equipment referenced in Table 401. Refer to Standard Practices - Airframe Chapter 20-15-00, 201, for information on recommended materials referenced in Table 401.

Table 401. Tools/Equipment and Recommended Materials

ITEM	TOOLS AND EQUIPMENT	ITEM	RECOMMENDED MATERIALS
		04-009	Thread Sealant (Pneumatic/Hydraulic)

**2. Condenser Assembly**

**NOTE:** Replace the receiver/dryer whenever the compressor is replaced, when contamination of the system is confirmed, or when the system plumbing is left open to the atmosphere for more than one hour.

A. Removal

**WARNING: The air conditioning system is a high pressure system. Due to the air quality control regulations enacted in the United States, it is not permitted to vent refrigerant R134a into the atmosphere. When performing maintenance on a vapor cycle system where refrigerant R134a can escape from the system, it will be necessary to evacuate the system with a certified recovery/recycle service unit that will recover the refrigerant.**

- (1) Perform the RECLAMATION OF REFRIGERANT procedure (Ref. 21-52-01, 301).
- (2) Perform the BATTERY POWER DISCONNECT procedure (Ref. 24-30-01, 201).
- (3) Remove the center aisle carpet forward of the main spar.
- (4) Remove floorboards 153DCL and 153 CCR located forward of the main spar (Ref. 06-50-00).
- (5) On the main power distribution panel, disengage the COMPRESSOR circuit breaker.
- (6) Remove the left and right forward avionics access doors 221CL (LH), 222CR (RH) (Ref. 06-50-00).
- (7) Remove the condenser access panel 221BL from the left side of the nose section (Ref. 06-50-00).
- (8) Perform the removal procedures of the following avionics equipment from the middle avionics shelf:
  - (a) Data Concentrator Units (DCU-3001) (Ref. 31-41-01, 401)
  - (b) Remote Data Concentrators (RDC-4002) (Ref. 31-41-03, 401)
  - (c) Remote Standby Controller (Ref. 34-25-01, 401)
  - (d) No. 1 and No. 2 Air Data Computers (ADC-3000) (Ref. 34-10-01, 401)
  - (e) Electronic Standby Instrument System (ESIS) Battery (PS-835D) (Ref. 34-23-07, 401)
- (9) Remove the two lower bolts that attach the nose junction box to the right middle avionics shelf.

**NOTE:** When removing the middle avionics shelves, note the ground strap locations on each shelf for proper placement upon installation of the shelves.

- (10) Remove the five bolts, washers and spacers that attach the middle left avionics shelf to the nose structure and remove the shelf from the airplane.
- (11) Remove the four bolts and washers that attach the middle right avionics shelf to the nose structure and remove the shelf from the airplane.

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- (12) Perform the removal procedures on the following avionics equipment from the lower avionics shelf:
  - (a) Integrated Card Cage Assembly (ICC-3000) (Ref. 31-40-01, 401)
  - (b) No. 1 and No. 2 Attitude Heading Computers (AHC-3000) (Ref. 34-20-01, 401).
  - (c) 5 VDC Power Supply (LT-55(C)) (3 locations) (Ref. 33-13-01, 401).
  - (d) Global Positioning System Receiver(s) (GPS-4000S) (Ref. 34-52-01, 401).
  - (e) VHF Navigation Units (NAV-4000/NAV-4500) (Ref. 34-53-01, 401)
  - (f) Distance Measuring Equipment Transceiver (DME-4000) (Ref. 34-54-01, 401)

**NOTE:** When removing the lower avionics shelves, note the ground strap locations on each shelf for proper placement upon installation of the shelves.

- (13) Remove the nine screws and washers that attach the lower left avionics shelf to the nose structure and remove the shelf from the airplane.
- (14) Remove the 11 screws, steel washers and aluminum washers that attach the lower right avionics shelf to the nose structure and remove the shelf from the airplane.
- (15) Remove the five screws, steel washers and aluminum washers that attach the lower center avionics shelf to the nose structure and remove the shelf from the airplane.
- (16) Perform the RECEIVER/DRYER REMOVAL procedure (Ref. 21-52-17, 401).
- (17) Remove the 18 screws and washers that attach the condenser section closeout panel to the frame at FS 57.50 and remove the panel from the airplane.
- (18) Perform the CONDENSER BLOWER REMOVAL procedure (Ref. 21-52-15, 401).
- (19) Remove access panel 223BTC from the top side of the nose section (Ref. 06-50-00).
- (20) Tag and disconnect the condenser inlet hose (4) on the upper side of the condenser assembly (1). Discard the O-ring (5) and install a plug in the open fitting of the condenser inlet hose (4) (Ref. Figure 401, Detail A).
- (21) Remove the two bolts (2) and washers (3) that attach the top of the condenser assembly (1) to the brace (7) (Ref. Figure 401, Detail B).
- (22) Tag and disconnect the condenser outlet hose (6) on the lower side of the condenser assembly (1). Discard the O-ring (7) and install a plug in the open fitting of the condenser outlet hose (6) (Ref. Figure 401, Detail A).
- (23) Remove the four bolts (2) and washers (3) that attach the bottom side of the condenser assembly (1) to the two mounting brackets (Ref. Figure 401, Views D-D and E-E).
- (24) Remove the condenser assembly (1) from the airplane.
- (25) If necessary due to contamination or removal of all oil from the system, perform the CLEANING/FLUSHING OF THE AIR CONDITIONING SYSTEM procedure (Ref. 21-52-01, 301).

**B. Installation**

- (1) Place the condenser assembly (1) on the mounting brackets and install the four bolts (2) and washers (3) (Ref. Figure 401, Views D-D and E-E).
- (2) Install the two bolts (2) and washers (3) that attach the top of the condenser assembly (1) to the brace (7) (Ref. Figure 401, Detail B).
- (3) Apply thread sealant (04-009, Table 401) to the threads of the condenser inlet and outlet port fittings.

**NOTE:** Apply the thread sealant sparingly to all but the first few threads on the condenser inlet and outlet port fittings.

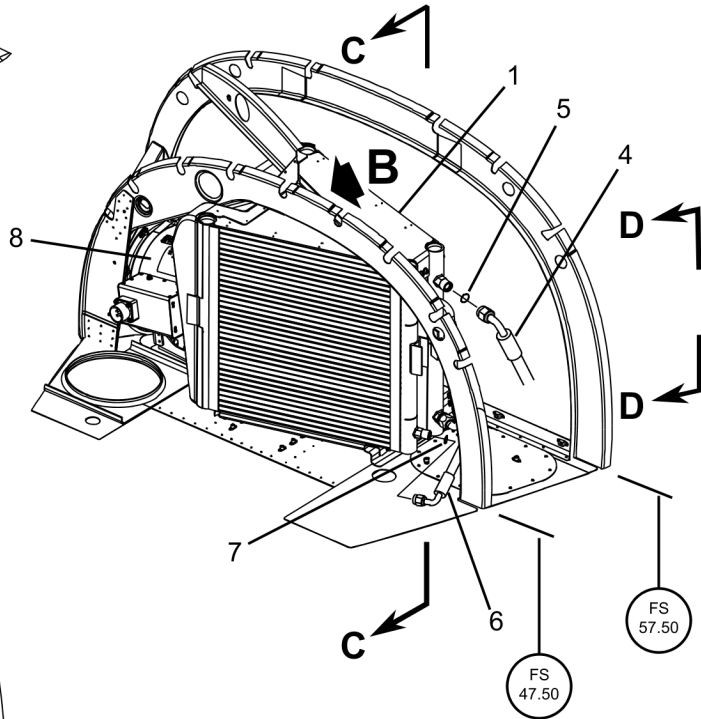
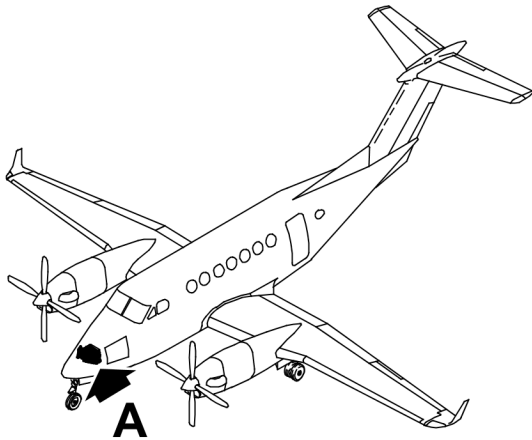
- (4) Remove the plug from the condenser inlet hose (4). Using a new O-ring (5), connect the condenser inlet hose (4) to the condenser assembly (1) (Ref. Figure 401, Detail A).
- (5) Torque the fitting of the condenser inlet hose (4) between 180 and 240 in/lbs.
- (6) Remove the plug from the condenser outlet hose (6). Using a new O-ring (7), connect the condenser outlet hose (6) to the condenser assembly (1) (Ref. Figure 401, Detail A).
- (7) Torque the fitting of the condenser outlet hose (6) between 135 and 155 in/lbs.
- (8) Perform the CONDENSER BLOWER INSTALLATION procedure (Ref. 21-52-15, 401).
- (9) Place the condenser closeout panel (8) in position on the back side of the frame at FS 57.50 and install the 18 screws (9) and washers (10) (Ref. Figure 401, View C-C).
- (10) Perform the RECEIVER/DRYER INSTALLATION procedure (Ref. 21-52-17, 401).

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- (11) Place the lower left avionics shelf in position and install the nine screws, washers and ground straps.
- (12) Place the lower right avionics shelf in position and install the 11 screws, steel washers, aluminum washers and ground straps.
- (13) Place the lower center avionics shelf in position and install the five screws, steel washers, aluminum washers and ground straps.
- (14) Perform the installation procedures on the following avionics equipment on the lower avionics shelf:
  - (a) Integrated Card Cage Assembly (ICC-3000) (Ref. 31-40-01, 401)
  - (b) No. 1 and No. 2 Attitude Heading Computers (AHC-3000) (Ref. 34-20-01, 401).
  - (c) 5 VDC Power Supply (LT-55(C)) (3 locations) (Ref. 33-13-01, 401).
  - (d) Global Positioning System Receiver(s) (GPS-4000S) (Ref. 34-52-01, 401).
  - (e) VHF Navigation Units (NAV-4000/NAV-4500) (Ref. 34-53-01, 401)
  - (f) Distance Measuring Equipment Transceiver (DME-4000) (Ref. 34-54-01, 401)
- (15) Place the left middle avionics shelf in position and install the five bolts, washers, spacers and ground straps.
- (16) Place the middle right avionics shelf in position and install the four bolts, washers and ground straps.
- (17) Install the two lower bolts that attach the nose junction box to the right middle avionics shelf.
- (18) Perform the installation procedures of the following avionics equipment on the middle avionics shelf:
  - (a) Data Concentrator Units (DCU-3001) (Ref. 31-41-01, 401)
  - (b) Remote Data Concentrators (RDC-4002) (Ref. 31-41-03, 401)
  - (c) Remote Standby Controller (Ref. 34-25-01, 401)
  - (d) No. 1 and No. 2 Air Data Computers (ADC-3000) (Ref. 34-10-01, 401)
  - (e) Electronic Standby Instrument System (ESIS) Battery (PS-835D) (Ref. 34-23-07, 401)
- (19) Perform the BATTERY POWER CONNECT procedure (Ref. 24-30-01, 201).
- (20) On the main power distribution panel, engage the COMPRESSOR circuit breaker.
- (21) Install floorboard panels 153DCL and 153CCR located forward of the main spar (Ref. 06-50-00).
- (22) Install the center aisle carpet forward of the main spar.
- (23) Perform the EVACUATING, OIL FILL and CHARGING procedures (Ref. 21-52-01, 301).
- (24) Operate the air conditioning system and check the condenser assembly (1) for leaks and proper operation.
- (25) Install access panels 221BL and 223BTC (Ref. 06-50-00).
- (26) Install the left and right forward avionics access doors 221CL (LH), 222CR (RH) (Ref. 06-50-00).

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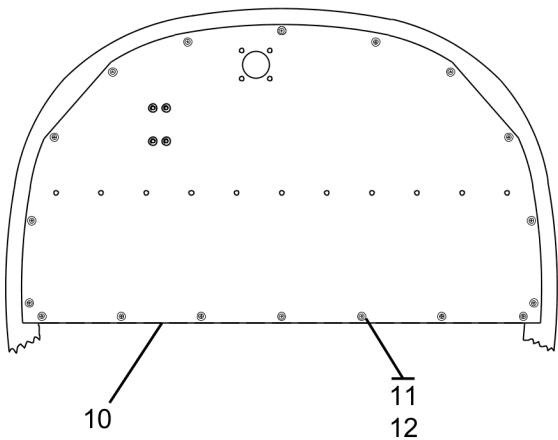
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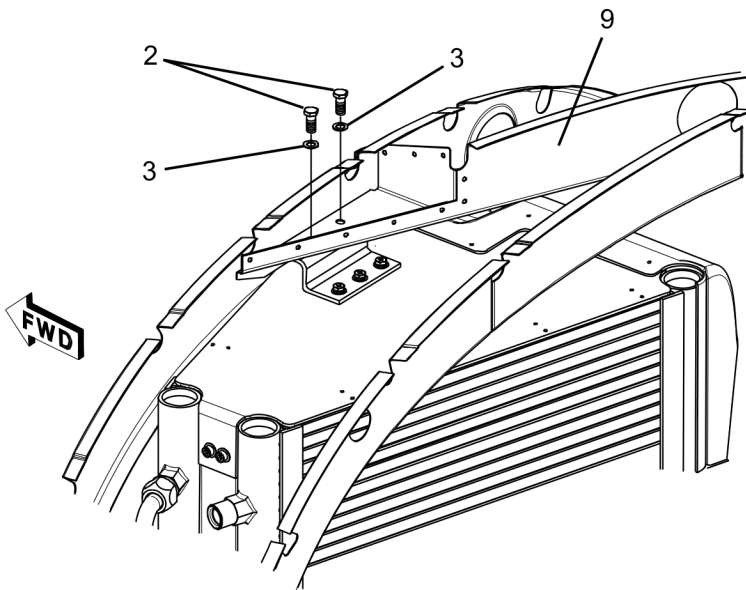
FS  
57.50

FS  
47.50

**DETAIL A**



**VIEW C-C**



**DETAIL B**

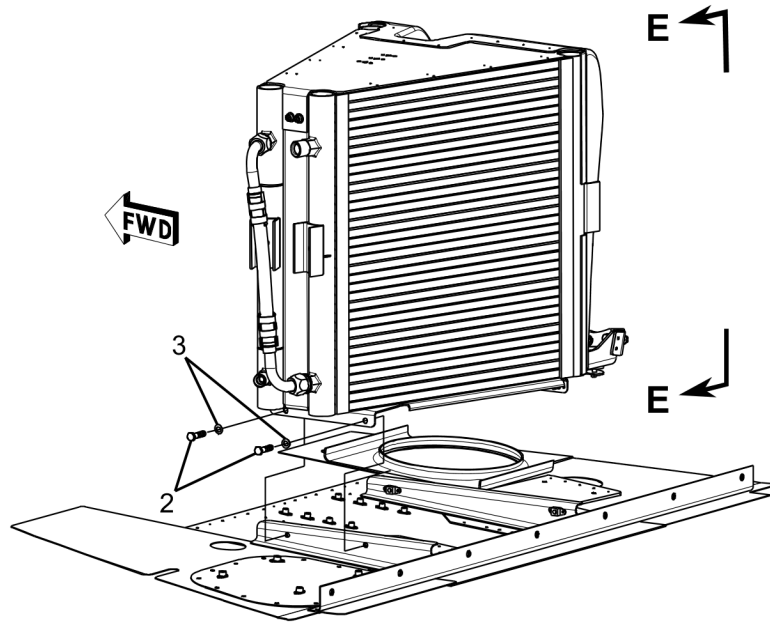
- 1. CONDENSER ASSEMBLY
- 2. BOLT (6 TOTAL)
- 3. WASHER (6 TOTAL)
- 4. CONDENSER INLET HOSE
- 5. O-RING
- 6. CONDENSER OUTLET HOSE
- 7. O-RING
- 8. CONDENSER FAN AND MOTOR
- 9. BRACE
- 10. CONDENSER CLOSEOUT PANEL
- 11. SCREW
- 12. WASHER

Condenser Installation  
 Figure 401 (Sheet 1)

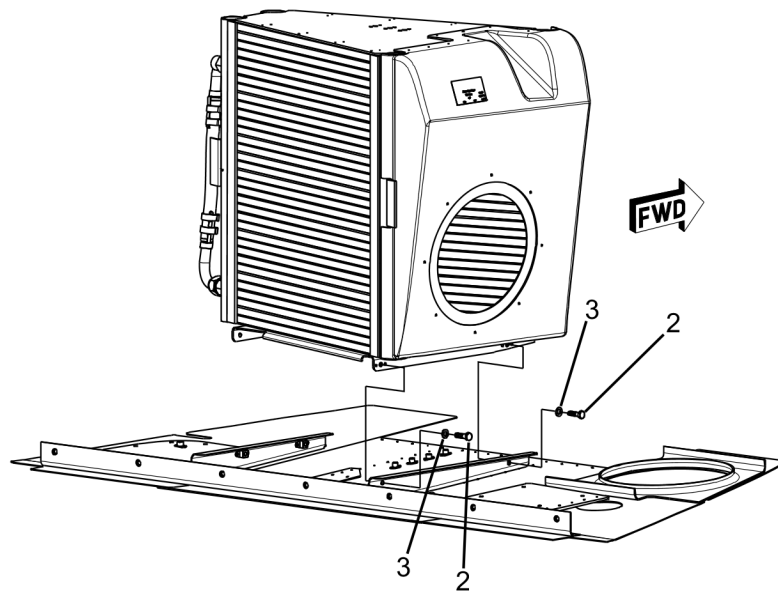


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MAINTENANCE MANUAL

E77095



**VIEW D-D**



**VIEW E-E**

Condenser Installation  
Figure 401 (Sheet 2)



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**CONDENSER ASSEMBLY - INSPECTION/CHECK**  
**(FL-1300, FL-1307 and After, FM-110 and After)**

**1. Description**

- A. This document provides the inspection tasks to inspect the air conditioning condenser assembly coils, attachment structure and hardware, and the associated plumbing and wiring. Refer to Chapter 21-51-00, 001 for more information on the air conditioning system.

Task 21-52-11-1600

**2. Condenser Assembly Coil Cleaning (FL-1300, FL-1307 and On, FM-110 and On)**

- A. Task Preparation.
- (1) Special Tools and Equipment.
    - This task does not require the use of any special tools or equipment.
  - (2) Special Consumables.
    - This task does not require the use of any special consumables.
  - (3) External Reference Material.
    - This task does not require the use of any external reference materials.
- B. Configure the Airplane.
- (1) Get access to the condenser assembly (Ref. 21-52-11, 401).
- NOTE:** Do not remove the condenser assembly from the airplane.
- C. Complete the Condenser Assembly Coil Cleaning (FL-1300, FL-1307 and On, FM-110 and On).
- (1) Clean and comb the condenser coil fins as necessary.
- D. Return the airplane to its initial condition, as necessary.
- (1) Close or Install the access door or panel, as necessary.

End of task

Task 21-52-11-2100

**3. Condenser Coil General Visual Inspection (FL-1300, FL-1307 and On, FM-110 and On)**

- A. Task Preparation.
- (1) Special Tools and Equipment.
    - This task does not require the use of any special tools or equipment.
  - (2) Special Consumables.
    - This task does not require the use of any special consumables.
  - (3) External Reference Material.
    - This task does not require the use of any external reference materials.
- B. Configure the Airplane.
- (1) Get access to the condenser assembly refrigerant lines, mounting hardware and brackets located in the nose section.
- C. Complete the Condenser Coil General Visual Inspection.
- (1) Inspect refrigerant lines for damage, wear, security and attachment.
  - (2) Inspect lines and coils for leakage, proper routing and chafing.
  - (3) Inspect any fittings for loose or missing hardware.
  - (4) Inspect the mounting brackets and hardware for damage and wear.
  - (5) Inspect for surface corrosion.
    - (a) If damage or corrosion is found in a given area, check the adjacent area.
- D. Return the airplane to its initial condition, as necessary.
- (1) Install the louvered condenser inlet panel.

End of task

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Task 21-52-11-2101

**4. Condenser Assembly Upper and Lower Mounting Brackets and Hardware General Visual Inspection (FL-1300, FL-1307 and On, FM-110 and On)**

- A. Task Preparation.
- (1) Special Tools and Equipment.
    - This task does not require the use of any special tools or equipment.
  - (2) Special Consumables.
    - This task does not require the use of any special consumables.
  - (3) External Reference Material.
    - This task does not require the use of any external reference materials.
- B. Configure the Airplane.
- (1) Get access to the condenser assembly (Ref. 21-52-11, 401).
- C. Complete the Condenser Assembly Upper and Lower Mounting Brackets and Hardware General Visual Inspection.
- (1) Inspect the upper and lower mounting brackets and hardware for damage, wear and security of attachment.
- D. Return the airplane to its initial condition, as necessary.
- (1) Install the louvered condenser inlet panel.

End of task

Task 21-52-11-2500

**5. Condenser Assembly Lower Mounting Flanges High Frequency Eddy Current Inspection (FL-1300, FL-1307 and On, FM-110 and On)**

- A. Task Preparation.
- (1) Special Tools and Equipment. Refer to King Air Structural Inspection and Repair Manual, 20-00-00, 201.
    - Paragraph 3.A.(1), Table 203, Special Tools and Equipment
  - (2) Special Consumables.
    - This task does not require the use of any special consumables.
  - (3) External Reference Material.
    - This task does not require the use of any external reference materials.
- B. Configure the Airplane.
- (1) Configure airplane as necessary
- C. Complete the Condenser Assembly Lower Mounting Flanges High Frequency Eddy Current Inspection.
- (1) Perform the EDDY CURRENT INSPECTION procedure as outlined in the King Air Structural Inspection and Repair Manual, 20-00-00, 201 between the lower condenser assembly mounting flanges and the airplane structure.
- D. Return the airplane to its initial condition, as necessary.

End of task



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**CONDENSER BLOWER - REMOVAL/INSTALLATION**  
(FL-1300, FL-1307 and After; FM-110 and After)

**1. Condenser Blower**

**A. Removal**

- (1) Perform the BATTERY POWER DISCONNECT procedure (Ref. 24-30-01, 201).
- (2) Remove the louvered condenser inlet panel from the right side of the nose section.
- (3) Remove the eight bolts (9) and washers (10) that attach the inlet duct (7) and screen (8) to the condenser blower (1) (Ref. Figure 401, Detail A).
- (4) Remove the inlet duct (7) and screen (8) from the airplane.
- (5) Disconnect the electrical connector (2) from the condenser blower (1).
- (6) Loosen the inboard band clamp (3) sufficiently to release it from the inboard mounting base flange (5).
- (7) Disengage and remove the outboard band clamp (4) from the condenser blower (1) and the outboard mounting base flange (6).
- (8) Pull the condenser blower (1) away from the condenser assembly (11) and through the condenser inlet opening.

**B. Installation**

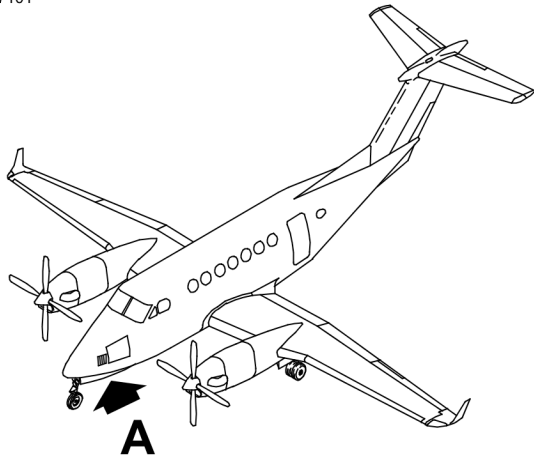
- (1) Place the inboard band clamp (3) over the inboard end of the condenser blower (1) (Ref. Figure 401, Detail A).
- (2) Place the condenser blower (1) through the condenser inlet opening and onto the inboard and outboard mounting base flanges (5) and (6).
- (3) Position the condenser blower (1) against the condenser assembly (11). Make sure that a positive seal exists between the condenser blower (1) and the condenser inlet seal.
- (4) Position the inboard band clamp (3) under the inboard mounting base flange (5). Tighten the band clamp (3) to secure the condenser blower (1) in place.
- (5) Place the outboard band clamp (4) around the condenser blower (1) and under the outboard mounting base flange (6).
- (6) Engage and tighten the outboard band clamp (4).

**NOTE:** Make sure that the inboard and outboard band clamps (3) and (4) are fully positioned under the inboard and outboard mounting base flanges (5) and (6).

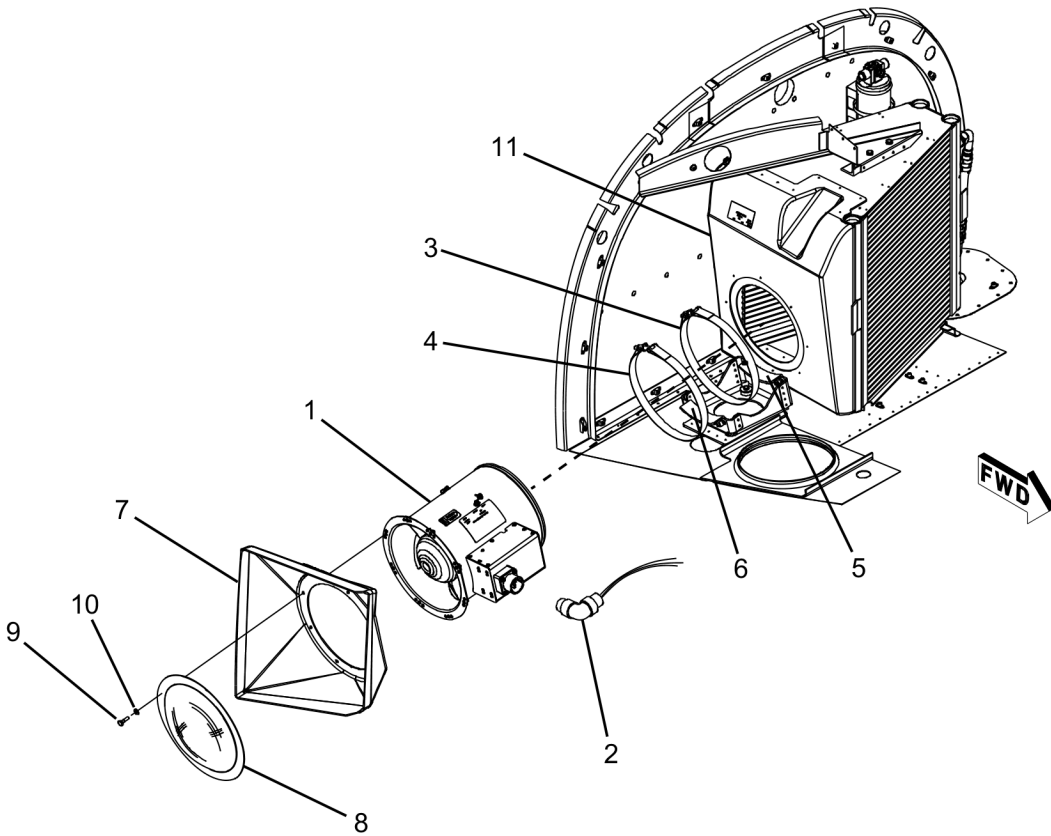
- (7) Connect the electrical connector (2) to the condenser blower (1).
- (8) Place the inlet duct (7) and screen (8) in position on the flange of the condenser blower (1) and install the eight bolts (9) and washers (10).
- (9) Perform the BATTERY POWER CONNECT procedure (Ref. 24-30-01, 201).
- (10) Operate the air conditioning system and check the condenser blower (1) for proper operation.
- (11) Install the louvered condenser inlet panel on the right side of the nose section.

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1. CONDENSER BLOWER
2. ELECTRICAL CONNECTOR
3. INBOARD BAND CLAMP
4. OUTBOARD BAND CLAMP
5. INBOARD MOUNTING BASE FLANGE
6. OUTBOARD MOUNTING BASE FLANGE
7. INLET DUCT
8. SCREEN
9. BOLT (8)
10. WASHER (8)
11. CONDENSER ASSEMBLY



**DETAIL A**

Condenser Blower Installation  
Figure 401 (Sheet 1)





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**RECEIVER/DRYER - REMOVAL/INSTALLATION**  
**(FL-1300, FL-1307 and After; FM-110 and After)**

**1. Information**

Refer to Standard Practices - Airframe Chapter 20-14-00, 201, for information on tools and equipment referenced in Table 401. Refer to Standard Practices - Airframe Chapter 20-15-00, 201, for information on recommended materials referenced in Table 401.

Table 401. Tools/Equipment and Recommended Materials

ITEM	TOOLS AND EQUIPMENT	ITEM	RECOMMENDED MATERIALS
		04-009	Thread Sealant (Pneumatic/Hydraulic)

**2. Receiver/Dryer**

**NOTE:** Replace the receiver/dryer whenever the compressor is replaced, when contamination of the system is confirmed, or when the system plumbing is left open to the atmosphere for more than one hour.

A. Removal

**WARNING: The air conditioning system is a high pressure system. Due to the air quality control regulations enacted in the United States, it is not permitted to vent refrigerant R134a into the atmosphere. When performing maintenance on a vapor cycle system where refrigerant R134a can escape from the system, it will be necessary to evacuate the system with a certified recovery/recycle service unit that will recover the refrigerant.**

- (1) Perform the RECLAMATION OF REFRIGERANT procedure (Ref. 21-52-01, 301).
- (2) Perform the BATTERY POWER DISCONNECT procedure (Ref. 24-30-01, 201).
- (3) Remove the center aisle carpet forward of the main spar.
- (4) Remove floorboards 153DCL and 153 CCR located forward of the main spar (Ref. 06-50-00).
- (5) On the main power distribution panel, disengage the COMPRESSOR circuit breaker.
- (6) Remove the receiver/dryer access panel 223BTC from the upper left side of the nose section (Ref. 06-50-00).
- (7) Tag and disconnect the two hoses (5) from the receiver/dryer (1). Discard the seals (4) and install plugs in the open fittings of the two hoses (5) (Ref. Figure 401, Detail B).
- (8) Loosen the two clamps (2) that secure the receiver/dryer (1) to the mounting bracket (3) and remove the receiver/dryer (1) from the airplane (Ref. Figure 401, Detail B).
- (9) If necessary due to contamination or removal of all oil from the system, perform the CLEANING/FLUSHING OF THE AIR CONDITIONING SYSTEM procedure (Ref. 21-52-01, 301).

B. Installation

- (1) Place the receiver/dryer (1) against the mounting bracket (3) inside of the two clamps (2) (Ref. Figure 401, Detail B).
- (2) Tighten the two clamps (2) that secure the receiver/dryer (1) to the mounting bracket (3) (Ref. Figure 401, Detail B).
- (3) Remove the plugs from the fittings of the two hoses (5).
- (4) Apply thread sealant (04-009, Table 401) to the threads of the expansion valve inlet and evaporator outlet ports.

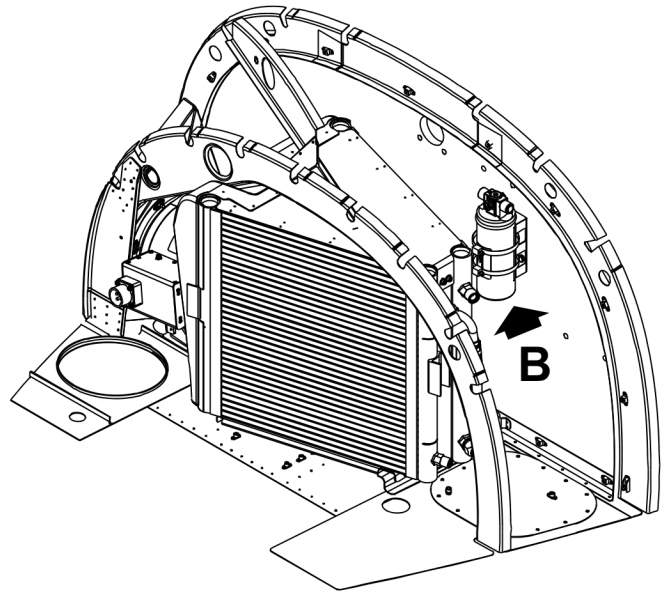
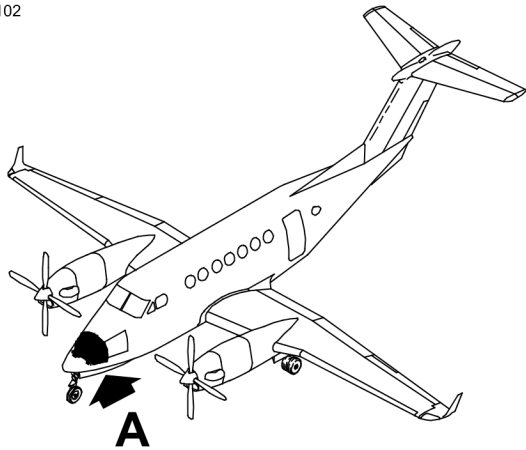
**NOTE:** Apply the thread sealant sparingly to all but the first few threads on the expansion valve inlet and evaporator outlet ports.

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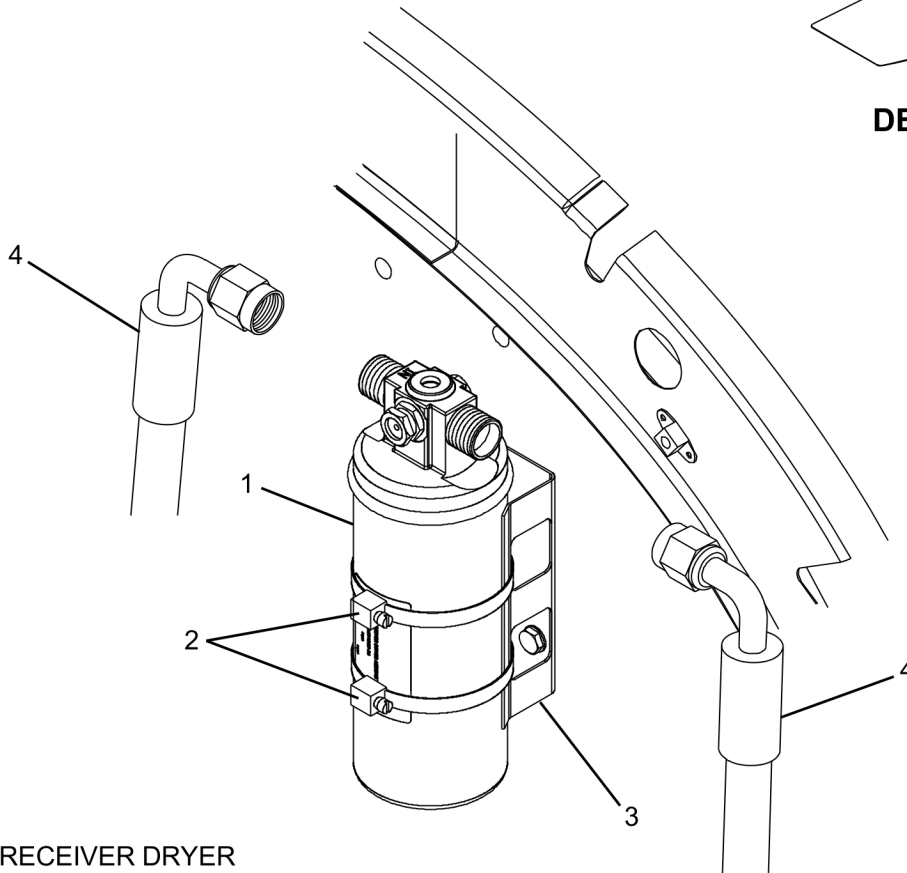
- (5) Using new seals (4), connect the two hoses (5) to the receiver/dryer (1). Remove the tags from the hoses once the connections are completed.
- (6) Perform the BATTERY POWER CONNECT procedure (Ref. 24-30-01, 201).
- (7) On the main power distribution panel, engage the COMPRESSOR circuit breaker.
- (8) Install floorboard panels 153DCL and 153CCR located forward of the main spar (Ref. 06-50-00).
- (9) Install the center aisle carpet forward of the main spar.
- (10) Perform the EVACUATING, OIL FILL and CHARGING procedures (Ref. 21-52-01, 301).
- (11) Operate the air conditioning system and check the receiver/dryer (1) for leaks.
- (12) Install the receiver dryer access panel 223BTC (Ref. 06-50-00).

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**DETAIL A**



- 1. RECEIVER DRYER
- 2. CLAMP
- 3. MOUNTING BRACKET
- 4. HOSE

**DETAIL B**

Receiver/Dryer Installation  
Figure 401 (Sheet 1)



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**COCKPIT EVAPORATOR - REMOVAL/INSTALLATION**  
 (FL-1300, FL-1307 and After; FM-110 and After)

**1. Information**

Refer to Standard Practices - Airframe Chapter 20-14-00, 201, for information on tools and equipment referenced in Table 401. Refer to Standard Practices - Airframe Chapter 20-15-00, 201, for information on recommended materials referenced in Table 401.

Table 401. Tools/Equipment and Recommended Materials

ITEM	TOOLS AND EQUIPMENT	ITEM	RECOMMENDED MATERIALS
		04-009	Thread Sealant (Pneumatic/Hydraulic)

**2. Cockpit Evaporator**

**NOTE:** Replace the receiver/dryer whenever the compressor is replaced, when contamination of the system is confirmed, or when the system plumbing is left open to the atmosphere for more than one hour.

A. Removal

**WARNING: The air conditioning system is a high pressure system. Due to the air quality control regulations enacted in the United States, it is not permitted to vent refrigerant R134a into the atmosphere. When performing maintenance on a vapor cycle system where refrigerant R134a can escape from the system, it will be necessary to evacuate the system with a certified recovery/recycle service unit that will recover the refrigerant.**

- (1) Perform the RECLAMATION OF REFRIGERANT procedure (Ref. 21-52-01, 301).
- (2) Perform the BATTERY POWER DISCONNECT procedure (Ref. 24-30-01, 201).
- (3) Remove the center aisle carpet forward of the main spar.
- (4) Remove floorboards 153DCL and 153 CCR located forward of the main spar (Ref. 06-50-00).
- (5) On the main power distribution panel, disengage the COMPRESSOR circuit breaker.
- (6) Remove the right forward avionics access door 222CR (Ref. 06-50-00).
- (7) In the nose gear well, remove the two access panels located on the right nose gear well skin (Ref. Figure 401, View C-C).
- (8) Perform the removal procedures of the following avionics equipment from the middle avionics shelf:
  - (a) Remote Standby Controller (Ref. 34-25-01, 401)
  - (b) No. 1 and No. 2 Air Data Computers (ADC-3000) (Ref. 34-10-01, 401)
  - (c) Electronic Standby Instrument System (ESIS) Power Supply (PS-835D) (Ref. 34-23-07, 401)
- (9) Remove the two lower bolts that attach the nose junction box to the right middle avionics shelf.

**NOTE:** When removing the right middle avionics shelf, note the ground strap locations for proper placement upon installation of the shelf.

- (10) Remove the four bolts and washers that attach the right middle avionics shelf to the nose structure and remove the shelf from the airplane.
- (11) Perform the removal procedures on the following avionics equipment from the lower avionics shelf:
  - (a) No. 2 Attitude Heading Computer (AHC-3000) (Ref. 34-20-01, 401).
  - (b) 5 VDC Power Supply (LT-55(C)) (3 locations) (Ref. 33-13-01, 401).

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- (c) Global Positioning System Receiver(s) (GPS-4000S) (Ref. 34-52-01, 401).
- (d) VHF Navigation Units (NAV-4000/NAV-4500) (Ref. 34-53-01, 401)
- (e) Distance Measuring Equipment Transceiver (DME-4000) (Ref. 34-54-01, 401)

**NOTE:** When removing the right lower avionics shelf, note the ground strap locations for proper placement upon installation of the shelf.

- (12) Remove the 11 screws, steel washers and aluminum washers that attach the lower right avionics shelf to the nose structure and remove the shelf from the airplane.
- (13) Remove the five screws, steel washers and aluminum washers that attach the lower center avionics shelf to the nose structure and remove the shelf from the airplane.
- (14) Remove the four screws (9), lock washers (10) and washers (11) that attach the forward duct assembly (8) to the cockpit evaporator (1) (Ref. Figure 401, Detail A and Figure 401, View C-C).
- (15) Disconnect the wire harness electrical connector from the blower fan electrical connector (7). Install a protective cover on the wire harness electrical connector (Ref. Figure 401, View C-C).
- (16) Remove the six bolts (5) and washers (6) that attach the forward end of the cockpit evaporator (1) to the nose structure (Ref. Figure 401, Detail A and Figure 401, View C-C).
- (17) Remove the bolt (5) and washer (3) that attaches the lower forward end of the blower fan support bracket (15) to the nose structure (Ref. Figure 401, Detail A).
- (18) Remove the nut (4) and washer (3) from the stud at the lower aft end of the blower fan support bracket (15).
- (19) Lift the cockpit evaporator (1) sufficiently for access to the expansion valve inlet and evaporator outlet hose fittings, and the condensation drain line connection.
- (20) Tag and disconnect the expansion valve inlet hose (12) from the TXV module on the forward end of the cockpit evaporator (1). (Ref. Figure 401, View B-B).
- (21) Tag and disconnect the evaporator outlet hose (13) from the TXV module on the forward end of the cockpit evaporator (1). (Ref. Figure 401, View B-B).
- (22) Disconnect the drain line from the condensation drain nipple (14) (Ref. Figure 401, View B-B).
- (23) Lift the cockpit evaporator (1) up and out of the nose section.
- (24) If necessary due to contamination or removal of all oil from the system, perform the CLEANING/ FLUSHING OF THE AIR CONDITIONING SYSTEM procedure (Ref. 21-52-01, 301).

**B. Installation**

- (1) Place the cockpit evaporator (1) above its position in the nose section (Ref. Figure 401, Detail A).
- (2) Apply thread sealant (04-009, Table 401) to the threads of the expansion valve inlet and evaporator outlet ports.

**NOTE:** Apply the thread sealant sparingly to all but the first few threads on the expansion valve inlet and evaporator outlet ports.

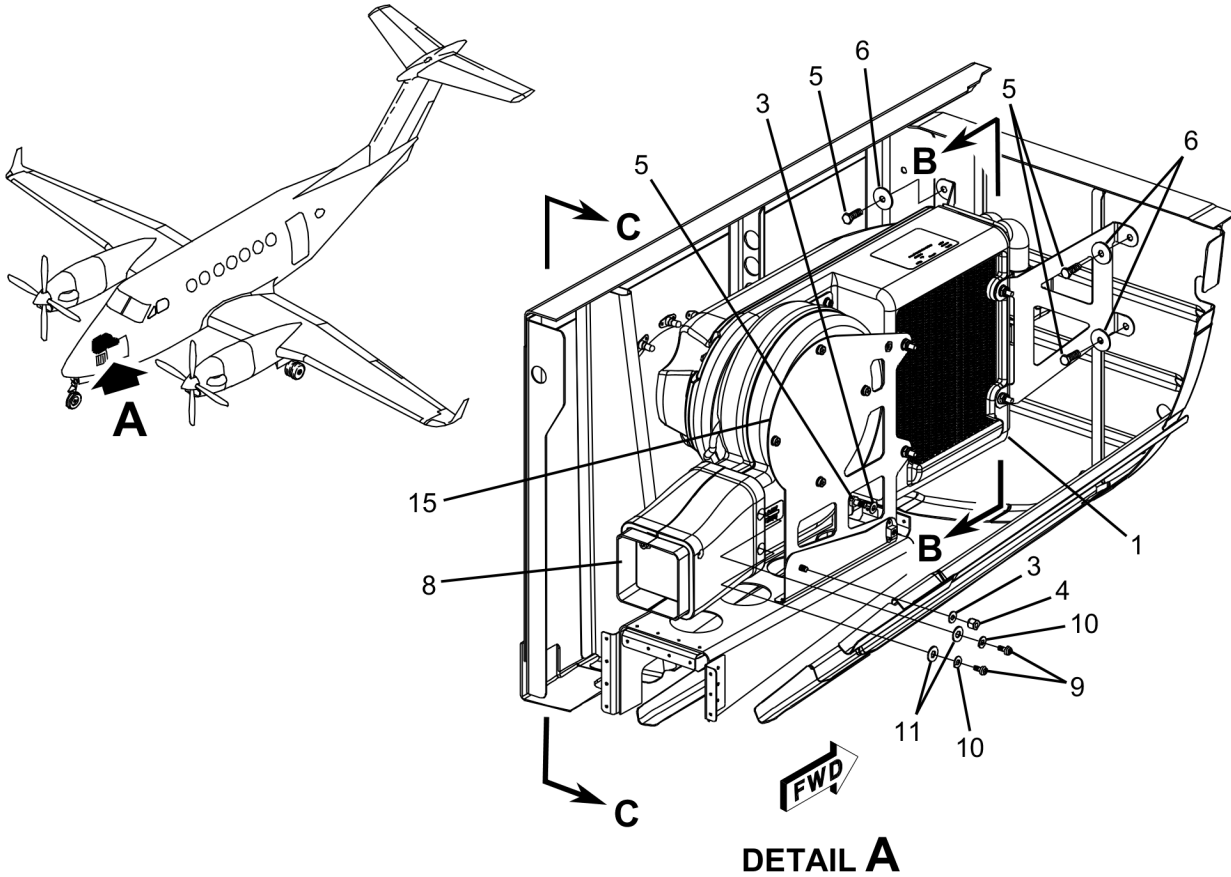
- (3) Remove the plug from the expansion valve inlet hose (12) and connect the hose to the cockpit evaporator (1) (Ref. Figure 401, View B-B).
- (4) Torque the fitting of the expansion valve inlet hose (12) between 135 and 155 inch-pounds.
- (5) Remove the plug from the evaporator outlet hose (13) and connect the hose to the cockpit evaporator (1) (Ref. Figure 401, View B-B).
- (6) Torque the fitting of the evaporator outlet hose (13) between 270 and 300 inch-pounds.
- (7) Remove the tags from the hoses (12) and (13) once the connections are completed.
- (8) Connect the drain line to the condensation drain nipple (14) (Ref. Figure 401, View B-B).
- (9) Lower the cockpit evaporator (1) into its position in the nose section.
- (10) Install the washer (3) and nut (4) on the stud at the lower aft end of the blower fan support bracket (12) (Ref. Figure 401, Detail A).
- (11) Install the bolt (5) and washer (3) that attaches the lower forward end of the blower fan support bracket (15) to the nose structure.
- (12) Install the six bolts (5) and washers (6) that attach the forward end of the cockpit evaporator (1) to the nose structure (Ref. Figure 401, Detail A and Figure 401, View C-C).
- (13) Install the four screws (9), lock washers (10) and washers (11) that attach the forward duct assembly (8) to the cockpit evaporator (1) (Ref. Figure 401, Detail A and Figure 401, View C-C).

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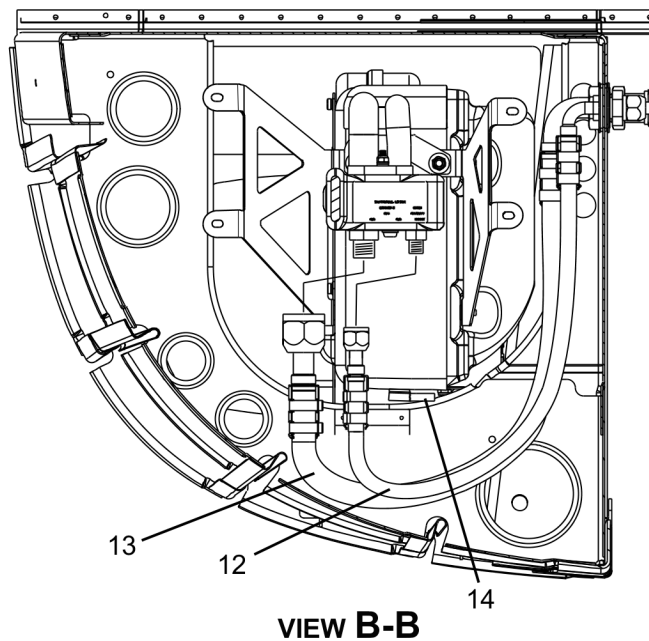
- (14) Remove the protective cover and connect the wire harness electrical connector to the blower fan electrical connector (7) (Ref. Figure 401, View C-C).
- (15) Place the lower center avionics shelf in position and install the five screws, steel washers, aluminum washers and ground straps.
- (16) Place the lower right avionics shelf in position and install the 11 screws, steel washers, aluminum washers and ground straps.
- (17) Perform the installation procedures on the following avionics equipment on the lower avionics shelf:
  - (a) No. 2 Attitude Heading Computer (AHC-3000) (Ref. 34-20-01, 401).
  - (b) 5 VDC Power Supply (LT-55(C)) (3 locations) (Ref. 33-13-01, 401).
  - (c) Global Positioning System Receiver(s) (GPS-4000S) (Ref. 34-52-01, 401).
  - (d) VHF Navigation Units (NAV-4000/NAV-4500) (Ref. 34-53-01, 401)
  - (e) Distance Measuring Equipment Transceiver (DME-4000) (Ref. 34-54-01, 401)
- (18) Place the middle right avionics shelf in position and install the four bolts, washers and ground straps.
- (19) Install the two lower bolts that attach the nose junction box to the right middle avionics shelf.
- (20) Perform the installation procedures of the following avionics equipment on the middle avionics shelf:
  - (a) Remote Standby Controller (Ref. 34-25-01, 401)
  - (b) No. 1 and No. 2 Air Data Computers (ADC-3000) (Ref. 34-10-01, 401)
  - (c) Electronic Standby Instrument System (ESIS) Battery (PS-835D) (Ref. 34-23-07, 401)
- (21) Perform the BATTERY POWER CONNECT procedure (Ref. 24-30-01, 201).
- (22) On the main power distribution panel, engage the COMPRESSOR circuit breaker.
- (23) Install floorboard panels 153DCL and 153CCR located forward of the main spar (Ref. 06-50-00).
- (24) Install the center aisle carpet forward of the main spar.
- (25) Perform the EVACUATING, OIL FILL and CHARGING procedures (Ref. 21-52-01, 301).
- (26) Operate the air conditioning system and check the cockpit evaporator (1) for leaks and proper operation.
- (27) In the nose gear well, install the two access panels located on the right nose gear well skin (Ref. Figure 401, View C-C).
- (28) Install the right forward avionics access door 222CR (Ref. 06-50-00).

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1. COCKPIT EVAPORATOR
2. SCREW
3. WASHER
4. NUT
5. BOLT
6. WASHER
7. ELECTRICAL CONNECTOR
8. FORWARD DUCT ASSEMBLY
9. SCREW
10. LOCK WASHER
11. WASHER
12. EXPANSION VALVE INLET HOSE
13. EVAPORATOR OUTLET HOSE
14. CONDENSATION DRAIN NIPPLE
15. BLOWER FAN SUPPORT BRACKET

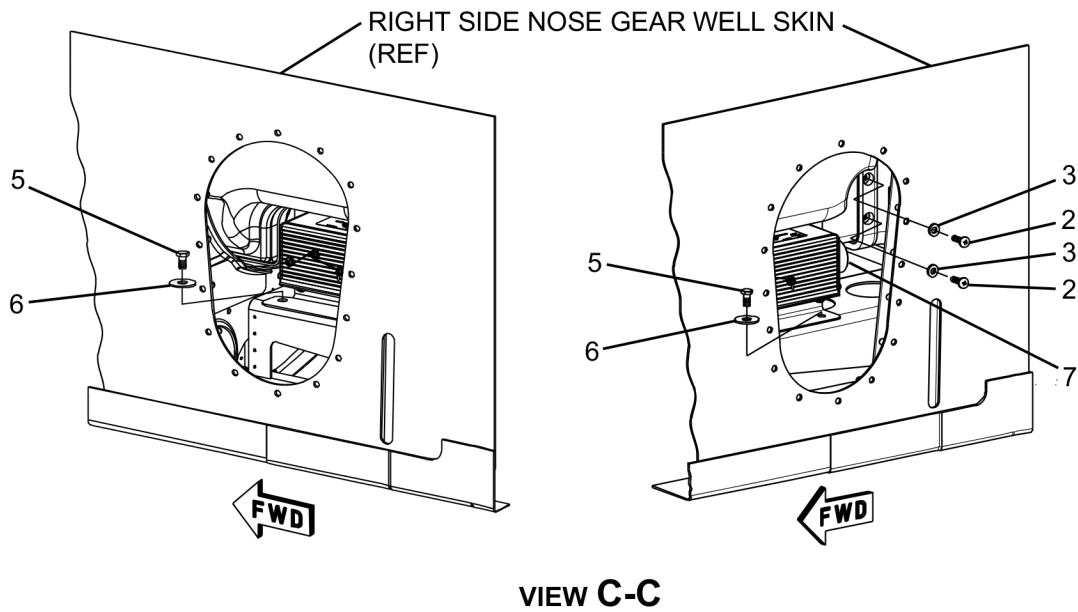


Cockpit Evaporator Installation  
 Figure 401 (Sheet 1)



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Cockpit Evaporator Installation  
Figure 401 (Sheet 2)



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**CABIN EVAPORATOR - REMOVAL/INSTALLATION**  
 (FL-1300, FL-1307 and After; FM-110 and After)

**1. Information**

Refer to Standard Practices - Airframe Chapter 20-14-00, 201, for information on tools and equipment referenced in Table 401. Refer to Standard Practices - Airframe Chapter 20-15-00, 201, for information on recommended materials referenced in Table 401.

Table 401. Tools/Equipment and Recommended Materials

ITEM	TOOLS AND EQUIPMENT	ITEM	RECOMMENDED MATERIALS
		04-009	Thread Sealant (Pneumatic/Hydraulic)

**2. Cabin Evaporator**

**NOTE:** Replace the receiver/dryer whenever the compressor is replaced, when contamination of the system is confirmed, or when the system plumbing is left open to the atmosphere for more than one hour.

A. Removal

**WARNING: The air conditioning system is a high pressure system. Due to the air quality control regulations enacted in the United States, it is not permitted to vent refrigerant R134a into the atmosphere. When performing maintenance on a vapor cycle system where refrigerant R134a can escape from the system, it will be necessary to evacuate the system with a certified recovery/recycle service unit that will recover the refrigerant.**

- (1) Perform the RECLAMATION OF REFRIGERANT procedure (Ref. 21-52-01, 301).
- (2) Perform the BATTERY POWER DISCONNECT procedure (Ref. 24-30-01, 201).
- (3) Remove the center aisle carpet forward of the main spar.
- (4) Remove floorboards 153DCL and 153 CCR located forward of the main spar (Ref. 06-50-00).
- (5) On the main power distribution panel, disengage the COMPRESSOR circuit breaker.
- (6) Remove the center floorboard panels 163DCL (LH) and 163CCR (RH) (Ref. 06-50-00).
- (7) Tag and disconnect the evaporator outlet hose (6) from the cabin evaporator outlet port. Discard the O-ring (7) and install a plug in the open fitting of the evaporator outlet hose (5) (Ref. Figure 401, Detail B).
- (8) Tag and disconnect the expansion valve inlet hose (4) from the expansion valve inlet port. Discard the O-ring (5) and install a plug in the open fitting of the expansion valve inlet hose (4) (Ref. Figure 401, Detail B).
- (9) Disconnect the two drain lines from the two condensation drain nipples (8) (Ref. Figure 401, View C-C).
- (10) Remove the eight bolts (2) and washers (3) that attach the cabin evaporator (1) to the fuselage frames (Ref. Figure 401, Detail B).
- (11) Pull the cabin evaporator (1) away from the transition duct (9) until the transition duct flange on the cabin evaporator is free from the inlet of the transition duct.
- (12) Remove the cabin evaporator (1) from the airplane.
- (13) If necessary due to contamination or removal of all oil from the system, perform the CLEANING/FLUSHING OF THE AIR CONDITIONING SYSTEM procedure (Ref. 21-52-01, 301).

B. Installation

- (1) Place the cabin evaporator (1) in its position and carefully insert the transition duct flange into the transition duct (9). (Ref. Figure 401, Details A and B).

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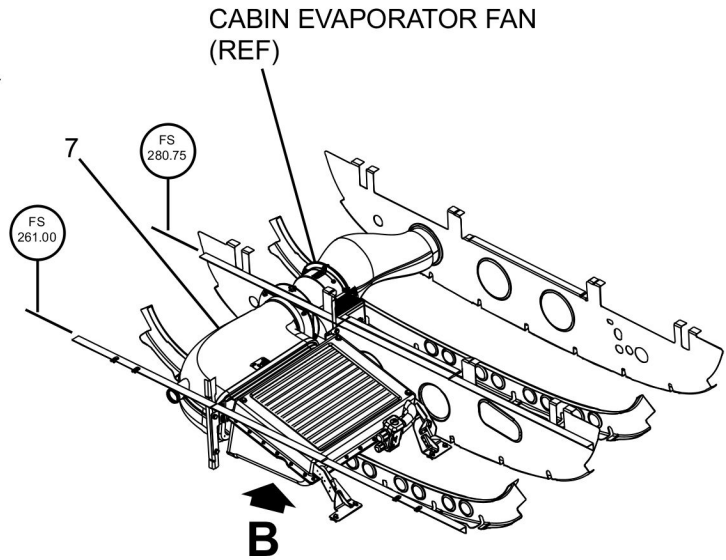
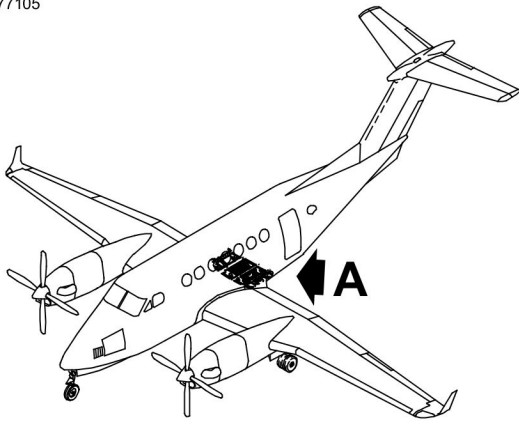
- (2) Align the fastener holes in the mounting brackets on the cabin evaporator (1) with their mating fastener holes in the fuselage structure.
- (3) Install the eight bolts (2) and washers (3) that attach the cabin evaporator (1) to the fuselage structure (Ref. Figure 401, Detail B).
- (4) Apply thread sealant (04-009, Table 401) to the threads of the expansion valve inlet and evaporator outlet ports.

**NOTE:** Apply the thread sealant sparingly to all but the first few threads on the expansion valve inlet and evaporator outlet ports.

- (5) Remove the plug from the expansion valve inlet hose (4). Using a new O-ring (5), connect the expansion valve inlet hose (4) to the cabin evaporator (1) (Ref. Figure 401, Detail B).
- (6) Torque the fitting of the expansion valve inlet hose (4) between 135 and 155 in/lbs.
- (7) Remove the plug from the evaporator outlet hose (6). Using a new O-ring (7), connect the evaporator outlet hose (6) to the cabin evaporator (1) (Ref. Figure 401, Detail B).
- (8) Torque the fitting of the evaporator outlet hose (6) between 270 and 300 in/lbs.
- (9) Remove the tags from the hoses (4) and (6) once the connections are completed.
- (10) Connect the drain lines to the condensation drain nipples (8) (Ref. Figure 401, View C-C).
- (11) Perform the BATTERY POWER CONNECT procedure (Ref. 24-30-01, 201).
- (12) On the main power distribution panel, engage the COMPRESSOR circuit breaker.
- (13) Install floorboard panels 153DCL and 153CCR located forward of the main spar (Ref. 06-50-00).
- (14) Install the center aisle carpet forward of the main spar.
- (15) Perform the EVACUATING, OIL FILL and CHARGING procedures (Ref. 21-52-01, 301).
- (16) Operate the air conditioning system and check the cabin evaporator (1) for leaks and proper operation.
- (17) Install the center floorboard panels 163DCL (LH) and 163CCR (RH) (Ref. 06-50-00).

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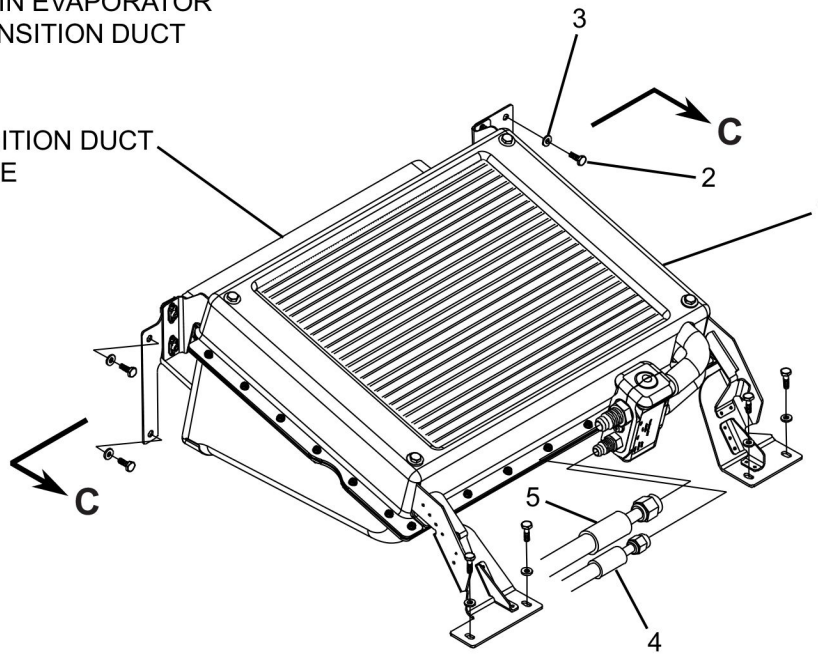
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**DETAIL A**

1. CABIN EVAPORATOR
2. BOLT (8 TOTAL)
3. WASHER (8 TOTAL)
4. EXPANSION VALVE INLET HOSE
5. EVAPORATOR OUTLET HOSE
6. DRAIN NIPPLE
7. CABIN EVAPORATOR TRANSITION DUCT

TRANSITION DUCT  
 FLANGE  
 (REF)



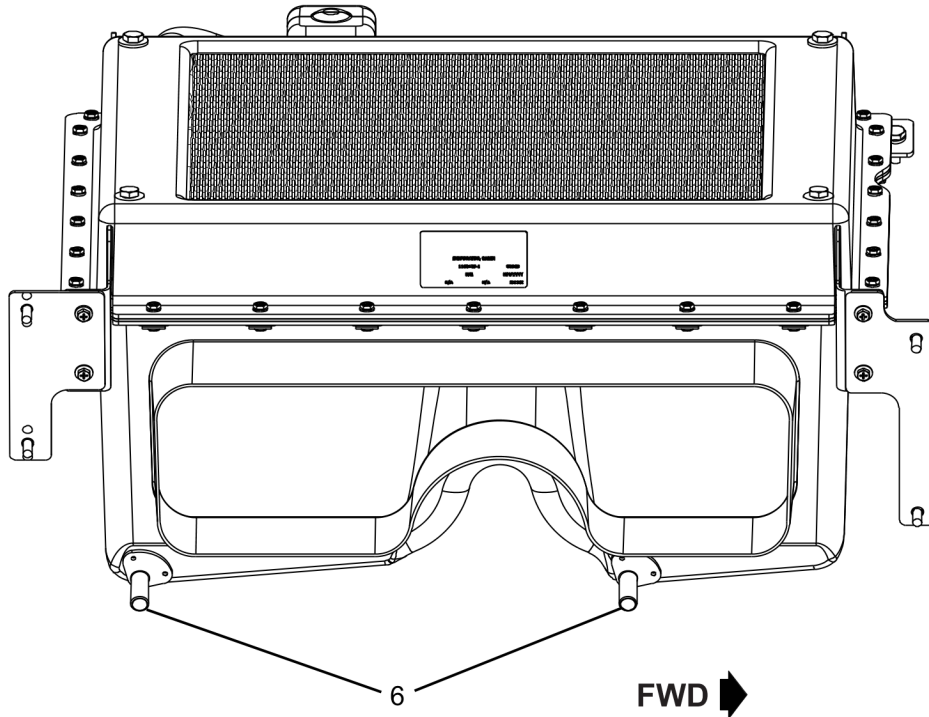
**DETAIL B**

(TRANSITION DUCT AND STRUCTURE NOT SHOWN FOR CLARITY)

Cabin Evaporator Installation  
 Figure 401 (Sheet 1)

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**VIEW C-C**

Cabin Evaporator Installation  
Figure 401 (Sheet 2)



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**TEMPERATURE CONTROL - DESCRIPTION AND OPERATION**  
**(FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306; FM-66 thru FM-109)**

**1. Description**

**A. Automatic Temperature Control**

Refer to 350 (Model B300)/350C (Model B300C) Wiring Diagram Manual (130-590031-7).

The controller for the environmental system, located under the center aisle floor in zone 143 is responsible for all facets of temperature control when the mode select switch is in the AUTO position. The controller receives power from the 5 amp TEMP CONTROL circuit breaker into connector P586 pin 16 any time there is power on the triple fed bus. The controller outputs a voltage from connector P585 pin 39 that is routed through the mode select switch in the AUTO position back to the controller into connector P585 pin 24. This input is the signal that causes the controller to assume all responsibility for automatic temperature control. It is normal and should be expected to hear the blowers operate for a brief time when the mode select switch is positioned from OFF to AUTO. The controller references 6 individual temperature sensors. There are two duct temperature sensors, one for the cabin and one for the cockpit, that sense the temperature of the incoming bleed air that is serving the cockpit and the recirculating air for the cabin. There are also two sensors that monitor the cabin and cockpit temperatures. These units have built in fans that draw the cabin and cockpit air in to sample the temperature. One sensor is located in the cockpit headliner and the other is in the cabin headliner between the emergency exits. The mixing box has one sensor that measures the temperature of the incoming bleed air and there is an OAT sensor mounted on a plate just aft of the nose wheel well on the outside skin. If the controller senses that any one of the thermistors in any one of the sensor assemblies is out of its programmed resistance range it will cause the forward blower to pulse from high speed to low speed every 5 seconds. It also drives the bypass valves to the full cold position so as not to chance an overheated duct condition. If there is a significant discrepancy between the cockpit and the cabin sensors but they are still in their programmed resistance range, the controller will cease to control the temperature, requiring the operator to use the manual modes.

**B. Bypass Valve Operation**

The bleed air bypass valves located in each wing center section are the same valves that were installed in the previous environmental system design and still provide the function of removing excess heat from the engine bleed air as required for proper temperature regulation. The Keith Products system will cause both valves to operate at the same time. During the manual modes of operation, power for the valves is applied to the controller through the Manual Temperature Control switch and Cabin Temperature Mode switch to P586 pin 36 for the cool command and pin 7 for the heat command. This power is routed through a relay in the controller that is in a normally closed (relaxed) condition. Output to the bypass valves is from P586 pins 21 (right) and 6 (left) for the cool command and pins 22 (right) and 37 (left) for the heat command. When AUTO is selected, the internal relay is energized and the controller will provide power for the same output pins to the bypass valves. In AUTO, the voltages at pins 36 and 7 should be zero even if the Manual Temperature switch is actuated. A switch mounted externally on the left bypass valve will actuate when the valve is 30° from the full cold position and provides a signal to the controller at P586 pin to allow for air conditioning. The switch will remain actuated as long as the valve is between the 30° and full cold positions.

**C. Temperature Controller**

The temperature controller monitors the temperature sensors to determine if they are out-of-range. The temperature sensors lower end range is set at -100°F. When the temperature sensors sense an out-of-range condition the temperature controller operates all valves and servos to a full cold position and pulses the cockpit blowers to alert the pilots.



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The temperature of environmental air can be controlled manually by setting the mode control switch to MAN HEAT or MAN COOL and holding the manual temperature control switch in the INCR or the DECR positions. When the manual control switch is set to INCR or DECR, power is supplied through the CABIN TEMP CONTROL circuit breaker, the mode switch and the manual temperature control switch to the appropriate bypass valve. When the switch is set to INCR, the bypass valve opens, allowing warm bleed air to bypass the heat exchanger and flow through the floor outlets. The bypass valves close as required to direct bleed air into the heat exchangers to cool the bleed air when the manual switch is set to DECR.



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**TEMPERATURE CONTROL - INSPECTION/CHECK**  
 (FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306; FM-66 thru FM-109)

**1. Air Duct Temperature Sensor**

**A. Air Duct Temperature Sensor Resistance Check**

Refer to 350 (Model B300)/350C (Model B300C) Wiring Diagram Manual (130-590031-7).

Before a controller is replaced, the technician should observe the lights on the controller. The red light is an indication that there is power on the controller from the triple fed bus. The green light should be flashing as an indication that the processor within the controller is active. Voltage at connector P585 pin 39 and 24 should be tested at the controller. It will be necessary to remove the back shell and back pin the connector in order to test the unit with it connected. The voltage difference should be negligible. The thermistors in the sensor assemblies may be evaluated using the appropriate chart as follows:

- (1) With all power removed from the airplane, disconnect the P585 connector from the controller.
- (2) Using a digital ohmmeter, measure the resistance for each sensor assembly and compare it to the applicable temperature vs resistance charts (Ref. Table 601, Table 602 and Figure 601). The sensor pin outs are as follows:

Sensor	Part Number	P585 Contacts
Mixing Box Sensor	300-0689-1	3, 18
Cabin Temp Sensor	300-0656-2	21, 36
Cockpit Temp Sensor	300-0656-2	5, 20
Cockpit Duct Temp Sensor	300-0751-1	19, 34
Cabin Duct Temp Sensor	300-0751-1	4, 35
OAT Sensor	300-0751-1	2, 33

- (3) If the resistance value of any sensor does not meet the chart values, gain access to the particular sensor and test it directly to isolate any wiring issues.

**NOTE:** For a further evaluation of the system operation, a laptop computer with the windows XP operating system may be connected to the controller's USB port. It will be necessary to download the necessary files from the hidden link on Keith Products web site. Contact Beechcraft Technical Support for the link and the Hyper Terminal setup instructions. When the laptop is successfully connected to the controller, the technician can observe the various inputs and outputs of the controller. It is important to note that the display only indicates what the controller is observing and commanding. It does not have feed back mode for the various servos or the bleed air bypass valves. For instance, the controller may be commanding the bypass valves but the temperature in the cabin is still not being controlled properly. At this point, the technician would need to determine if the controller is actually providing a voltage output and / or if valves are actually moving. Using the laptop to evaluate the temperature sensors is the preferred method as it will display in degrees F what the controller is sensing from each thermistor.

- (4) The following charts may be used to evaluate the thermistors in the sensor assemblies:

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Table 601. Table 601 Mixing Box Sensor P/N 300-0689-1 Mixed Bleed Temp

Degrees Fahrenheit	Degrees Celsius	Resistance (Ohms)		
		Minimum	Nominal	Maximum
50	10	17772	18360	18947
51.8	11	17050	17600	18149
53.6	12	16356	16870	17383
55.4	13	15700	16180	16659
57.2	14	15074	15520	15965
59	15	14475	14890	15304
60.8	16	13905	14290	14674
62.6	17	13364	13720	14075
64.4	18	12851	13180	13508
66.2	19	12356	12660	12963
68	20	11880	12160	12439
69.8	21	11423	11690	11956
71.6	22	10987	11240	11492
73.4	23	10572	10810	11047
75.2	24	10169	10390	10610
77	25	9800	10000	10200
78.8	26	9426	9625	9823
80.6	27	9065	9267	9468
82.4	28	8714	8922	9129
84.2	29	8380	8592	8803
86	30	8060	8276	8491
87.8	31	7755	7959	8182
89.6	32	7464	7676	7887
91.4	33	7185	7395	7604
93.2	34	6919	7127	7334
95	35	6663	6869	7074
96.6	36	6419	6623	6826
98.6	37	6185	6387	6588
100.4	38	5961	6161	6360
102.2	39	5746	5944	6141
104	40	5541	5736	5931

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Table 602. Table 602Cockpit and Cabin Sensor P/N 300-0656-2Mixed Bleed Temp

Degrees Fahrenheit	Degrees Celsius	Resistance (Ohms)		
		Minimum	Nominal	Maximum
50	10	1630	1836	2041
51.8	11	1564	1760	1955
53.6	12	1500	1687	1873
55.4	13	1440	1618	1795
57.2	14	1383	1552	1720
59	15	1328	1489	1649
60.8	16	1276	1429	1581
62.6	17	1226	1372	1517
64.4	18	1179	1318	1456
66.2	19	1134	1266	1397
68	20	1090	1216	1341
69.8	21	1048	1169	1289
71.6	22	1008	1124	1239
73.4	23	970	1081	1191
75.2	24	933	1039	1144
77	25	900	1000	1100
78.8	26	865	962	1059
80.6	27	832	926	1021
82.4	28	800	892	984
84.2	29	769	859	949
86	30	739	827	915
87.8	31	711	796	881
89.6	32	685	767	850
91.4	33	659	739	819
93.2	34	634	712	790
95	35	611	686	762
96.6	36	588	662	735
98.6	37	567	638	709

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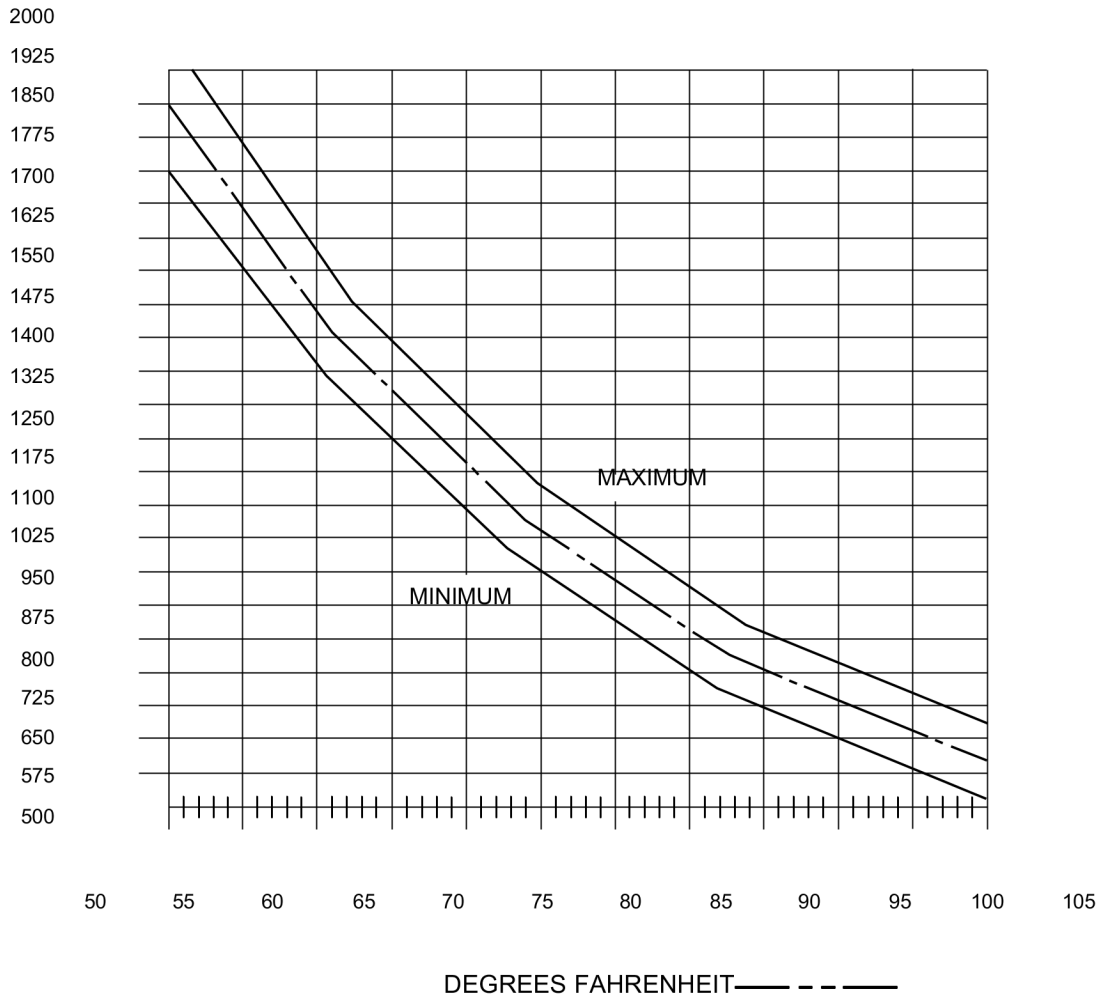
Table 602. Table 602Cockpit and Cabin Sensor P/N 300-0656-2Mixed Bleed Temp (continued)

Degrees Fahrenheit	Degrees Celsius	Resistance (Ohms)		
		Minimum	Nominal	Maximum
100.4	38	546	616	685
102.2	39	527	594	661
104	40	508	573	638

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DUCT TEMP AND OAT SENSORS



NOMINAL

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Chart for Thermistor Assembly P/N 300-0751-1OAT, Cockpit Duct Temp and Cabin Duct Temp  
 Figure 601 (Sheet 1)





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**CABIN TEMPERATURE CONTROLLER - REMOVAL/INSTALLATION**  
**(FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306; FM-66 thru FM-109)**

**1. Cabin Temperature Controller**

**A. Removal**

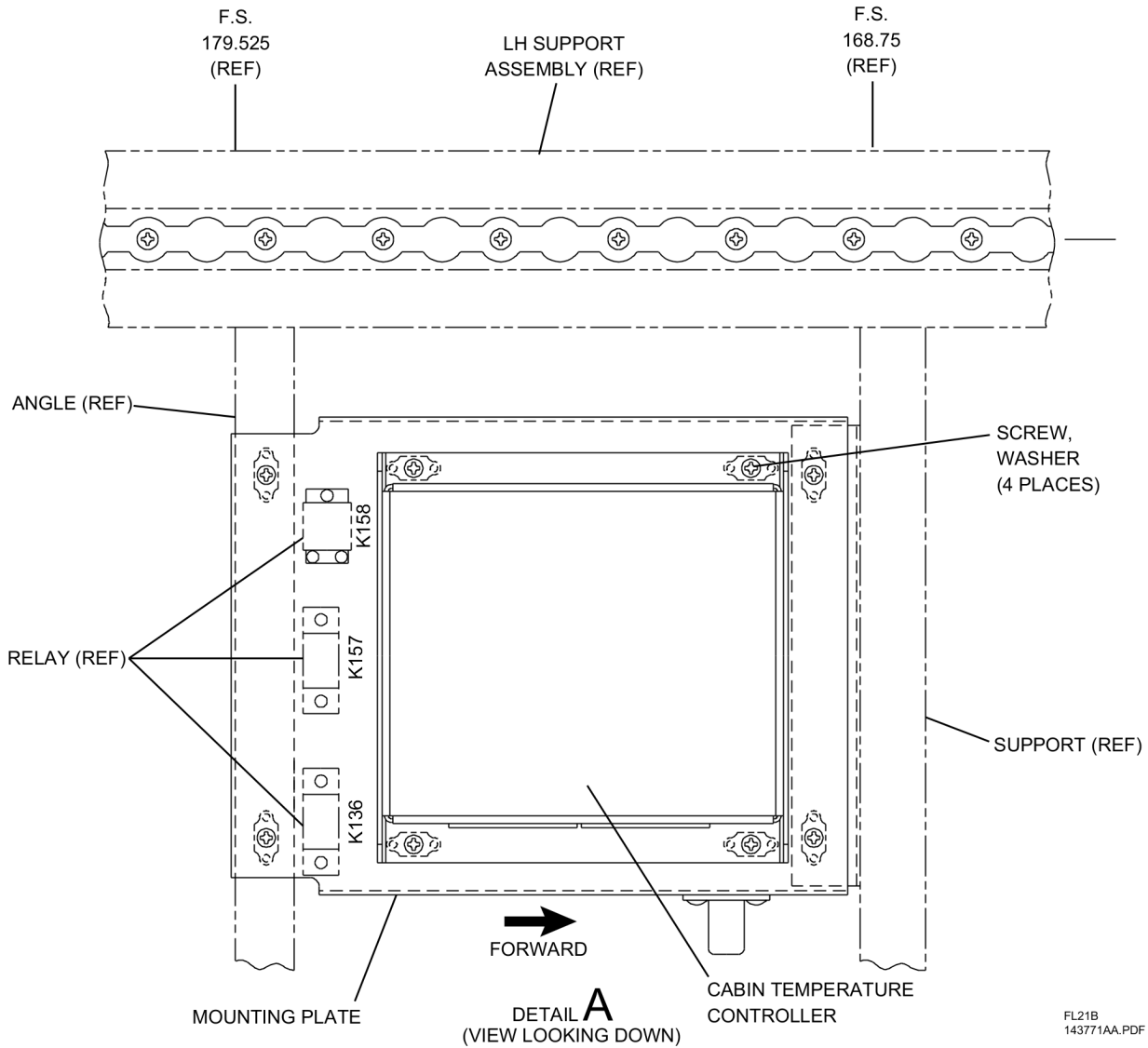
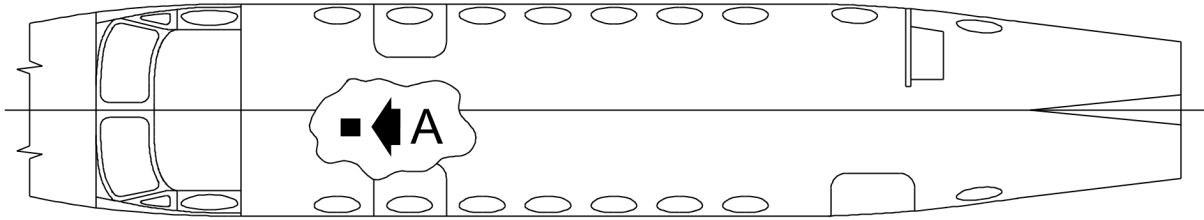
- (1) Make sure that the BAT switch is set to the OFF position and tag the switch with a caution tag indicating "DO NOT APPLY POWER".
- (2) Perform the BATTERY POWER DISCONNECT procedure (Ref. 24-30-01, 201) and tag the connector with a caution tag "DO NOT RECONNECT".
- (3) Remove the center aisle floor board to gain access to the cabin temperature controller (Ref. 06-50-00, 001).
- (4) Electrically disconnect the cabin temperature controller (Ref. Figure 401).
- (5) Remove four screws and washers from the cabin temperature controller and remove the cabin temperature controller from airplane.

**B. Installation**

- (1) Place the cabin temperature controller in the installed position and secure using the four screws and washers (Ref. Figure 401).
- (2) Electrically reconnect the cabin temperature controller.
- (3) Install the center aisle floor board (Ref. 06-50-00, 001).
- (4) Perform the BATTERY POWER CONNECT procedure (Ref. 24-30-01, 201) and remove the caution tags.

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Cabin Temperature Controller  
 Figure 401 (Sheet 1)



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**CABIN TEMPERATURE CONTROLLER - ADJUSTMENT/TEST**  
**(FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306; FM-66 thru FM-109)**

**1. Cabin Temperature Controller**

**A. Test**

- (1) Perform the ELECTRICAL POWER CONNECT procedure (Ref. 24-40-00, 201).
- (2) Place both blower switches in the AUTO position.
- (3) Place the mode selector switch in the AUTO position. Make sure the blowers are operating.
- (4) Slowly rotate the temperature control knob from full cold to full hot and back to full cold. If the actual cabin temperature is 60°F to 80°F, the blower speed will adjust as the temperature knobs are rotated. As the selected temperature reaches the actual cabin temperature, the blower speeds should decrease.

**NOTE:** It is normal for the blowers to operate at high speed momentarily and then adjust to a fixed speed according to the temperature selections. If the temperature is above 80°F or below 60°F, the blowers will operate at a fixed speed because of the limited range of the temperature control knob.

- (5) With the mode switch in the AUTO position and the blowers operating in a high speed, move the blower switches out of the AUTO position.
- (6) Rotate the blower control knob and the blower motor speed should vary.
- (7) The airplane should be flown (or run long enough on the ground) for the environmental system to change the cabin temperature. Blower speeds should reduce as the cabin temperature approaches the temperature set by the temperature control knob.
- (8) Perform the ELECTRICAL POWER DISCONNECT procedure (Ref. 24-40-00, 201).



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**ENVIRONMENTAL CONTROL SYSTEM (ECS) CONTROLLER - REMOVAL/INSTALLATION**  
(FL-1300, FL-1307 and After; FM-110 and After)

**1. ECS Controller**

**A. Removal**

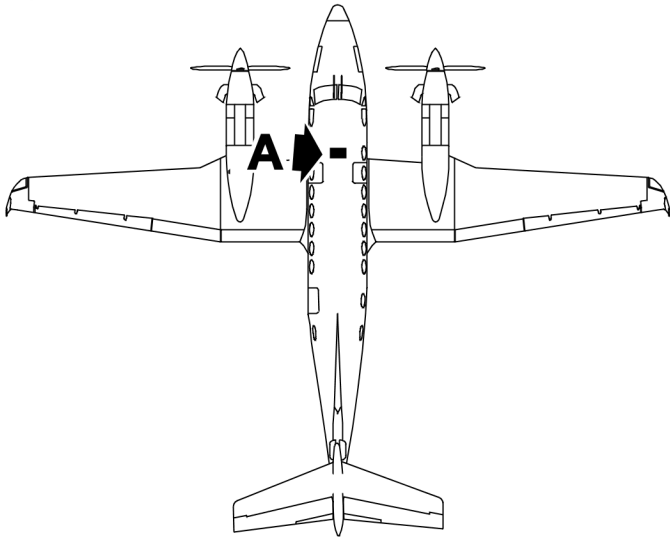
- (1) Perform the BATTERY POWER DISCONNECT procedure (Ref. 24-30-01, 201).
- (2) Perform the CARPET REMOVAL procedure at the forward cabin center aisle (Ref. 25-20-39, 401).
- (3) Remove floorboard panels 153DCL and 153CCR (Ref. 06-50-00).
- (4) Disconnect the wire harness connector from the ECS controller electrical connector (2) (Ref. Figure 401, Detail B). Install a protective cover on the wire harness connector.
- (5) Remove the four screws (4), lock washers (5) and flat washers (6) that attach the ECS controller (1) to the upper and lower mounting brackets (7) and (8).
- (6) Remove the ECS controller (1) from the airplane.

**B. Installation**

- (1) Place the ECS controller (1) onto the upper and lower mounting brackets (7) and (8) and install the four screws (4), lock washers (5) and nuts (6) (Ref. Figure 401, Detail B).
- (2) Remove the protective cover and connect the wire harness connector to the ECS controller electrical connector (2).
- (3) Perform the BATTERY POWER CONNECT procedure (Ref. 24-30-01, 201).
- (4) If ground power is available, perform the CONNECTING AND APPLYING EXTERNAL POWER procedure (Ref. 24-40-00, 201).
- (5) If ground power **is not** available, start both engines in accordance with Section 4 of the Pilot's Operating Handbook.
- (6) In the ENVIRONMENTAL controls section on the copilot subpanel, set the MODE switch and the cockpit and cabin BLOWER knobs to their AUTO positions.
- (7) Make sure that the cockpit and cabin blowers are operating.
- (8) Slowly rotate the cockpit and cabin TEMP knobs from full cold to full hot and back to full cold and observe the following conditions.
  - (a) The blower speed decreases as the selected cockpit and cabin temperatures reach the actual cockpit and cabin temperatures.
  - (b) The blower speed increases as the selected cockpit and cabin temperatures move further away from the actual cockpit and cabin temperatures.
- (9) With the blowers operating at high speed, rotate the cockpit and cabin BLOWER knobs out of the AUTO position.
- (10) Rotate the cockpit and cabin BLOWER knobs to the full INCR positions and back. Make sure that the blower speeds change with the changes in the BLOWER knob positions.
- (11) Set the MODE switch to the OFF position.
- (12) If an engine run was required for the functional test, shut down both engines in accordance with Section 4 of the Pilot's Operating Handbook.
- (13) If ground power was used for the functional test, perform the DISCONNECTING EXTERNAL POWER procedure (Ref. 24-40-00, 201).
- (14) Install floorboard panels 153DCL and 153CCR (Ref. 06-50-00).
- (15) Perform the CARPET INSTALLATION procedure at the forward cabin center aisle (Ref. 25-20-39, 401).

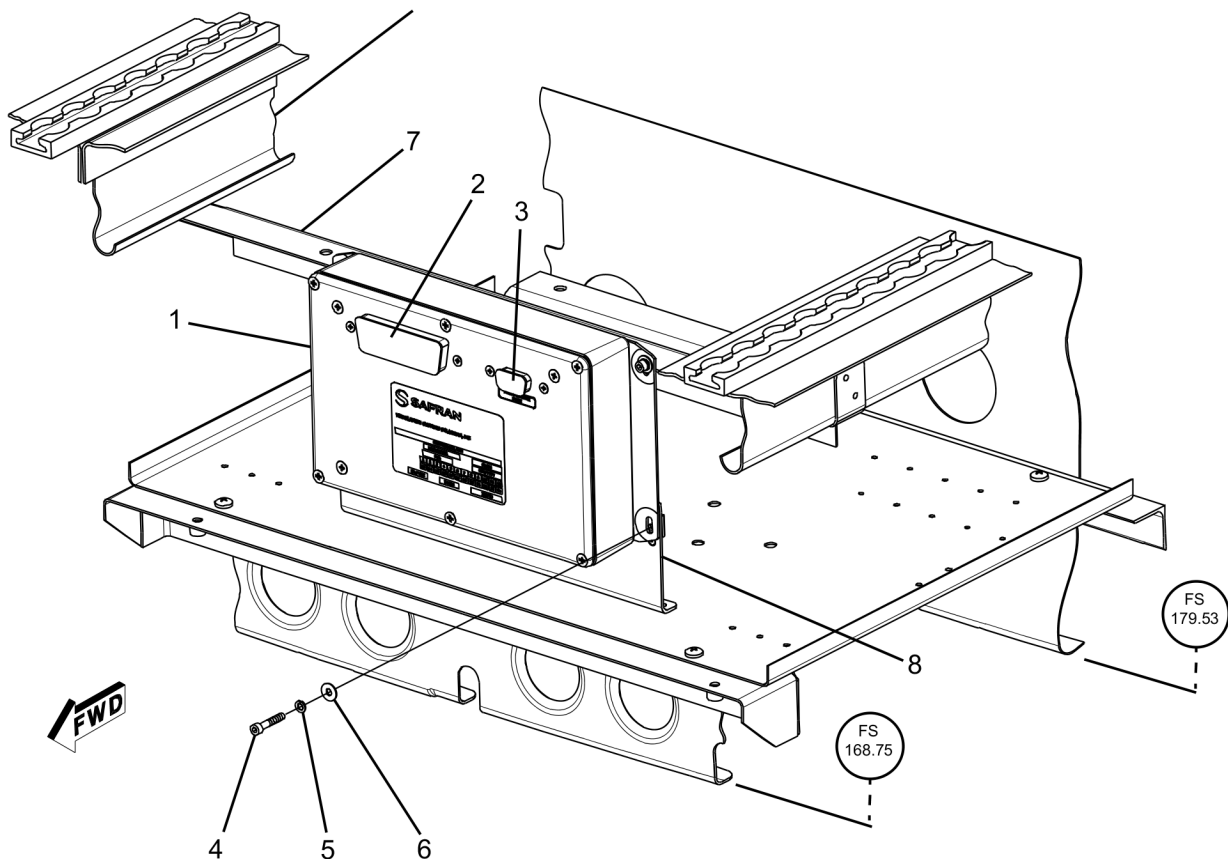
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E77107



1. ECS CONTROLLER
2. ELECTRICAL CONNECTOR
3. MAINTENANCE CONNECTOR PORT
4. SCREW (4 TOTAL)
5. LOCK WASHER (4 TOTAL)
6. FLAT WASHER (4 TOTAL)
7. UPPER MOUNTING BRACKET
8. LOWER MOUNTING BRACKET

SEAT RAIL SUPPORT  
 (REF)



**DETAIL A**

Environmental Control System (ECS) Controller Installation  
 Figure 401 (Sheet 1)





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**AUTO THROTTLE SYSTEM - DESCRIPTION AND OPERATION**  
(FL-1300, FL-1307 and After; FM-110 and After)

**1. Description**

The Auto Throttle System with Standby Display provides automatic engine power control by moving the power control levers to maintain a selected value of airspeed or engine torque. The auto throttle system can provide automatic control of the power control levers during take-off, climb, cruise, descent and go-around phases of flight. The pilot can manually override or disengage the auto throttle system at any time. The cockpit controls and indications for the auto throttle system are located on the Standby Display Unit (SDU). The auto throttle system interfaces with the Flight Management System (FMS) ARINC 429 output and the go-around switch. The auto throttle system consists of the Auto Throttle Assembly, Standby Display Unit (SDU), Remote Standby Controller (RSC), Installation Configuration Module (ICM), Automatic Throttle Engaged (A/T ENG) annunciator, and Automatic Throttle Disconnect (A/T DISC) switch.

**A. Auto Throttle Assembly**

- (1) The auto throttle assembly is installed in the center pedestal, and consists of two linear actuator assemblies (Ref. Figure 1, Detail B). The actuator arms are connected to the power control lever bell cranks at the same points at which the power control cables are connected. The auto throttle assembly receives commands from the standby display unit and the remote standby controller. The auto throttle assembly also returns status and position data to the remote standby controller. The auto throttle assembly contains a clutch-less slip mechanism which allows the auto throttle system to be over-ridden while engaged.

**B. Standby Display Unit (SDU)**

- (1) The standby display unit (SDU) is installed in the center of the glareshield above the primary instrument panel (Ref. Figure 2, Detail B). The SDU provides automatic control of the power control levers through the automatic throttle assembly from data it receives from the remote standby controller (RSC). The SDU contains the cockpit controls for the auto throttle system, and also provides a standby display of the aircraft attitude, airspeed and altitude.

**C. Remote Standby Controller (RSC)**

- (1) The remote standby controller (RSC) is installed in the forward avionics compartment (Ref. Figure 3, Detail B). The RSC collects engine data including torque and interstage turbine temperature (ITT) and provides this data to the SDU, which provides control inputs to the auto throttle assembly. The RSC also collects data from the air data computer and pitot/static sources and provides this data to the SDU for display of aircraft attitude, airspeed and altitude.

**D. Installation Configuration Module (ICM)**

- (1) The installation configuration module (ICM) is attached to the RSC wire harness and is wired into the RSC harness electrical connector (Ref. Figure 3, Detail C). The ICM remains with the aircraft when the RSC is removed. The ICM contains a configuration file which is read by the RSC upon initiation to configure auto throttle software options and aircraft specific performance and operational limits.

**E. A/T ENG Annunciator**

- (1) The Auto Throttle Engaged "A/T ENG" annunciator is located on the primary instrument panel (Ref. Figure 2, Detail A). When the auto throttle system is engaged, the A/T ENG annunciator illuminates in green text.

**F. A/T DISC Switch**

- (1) The auto throttle disconnect switch is located on the right power control lever knob (Ref. Figure 1, Detail A). The auto throttle disconnect switch is used by the flight crew to disengage the auto throttle system at any time. Pressing the switch provides a momentary ground signal to the SDU which commands the SDU and RSC to disengage the auto throttle system. The auto throttle disconnect switch can also be used to acknowledge that an auto throttle system disconnect event has already occurred.

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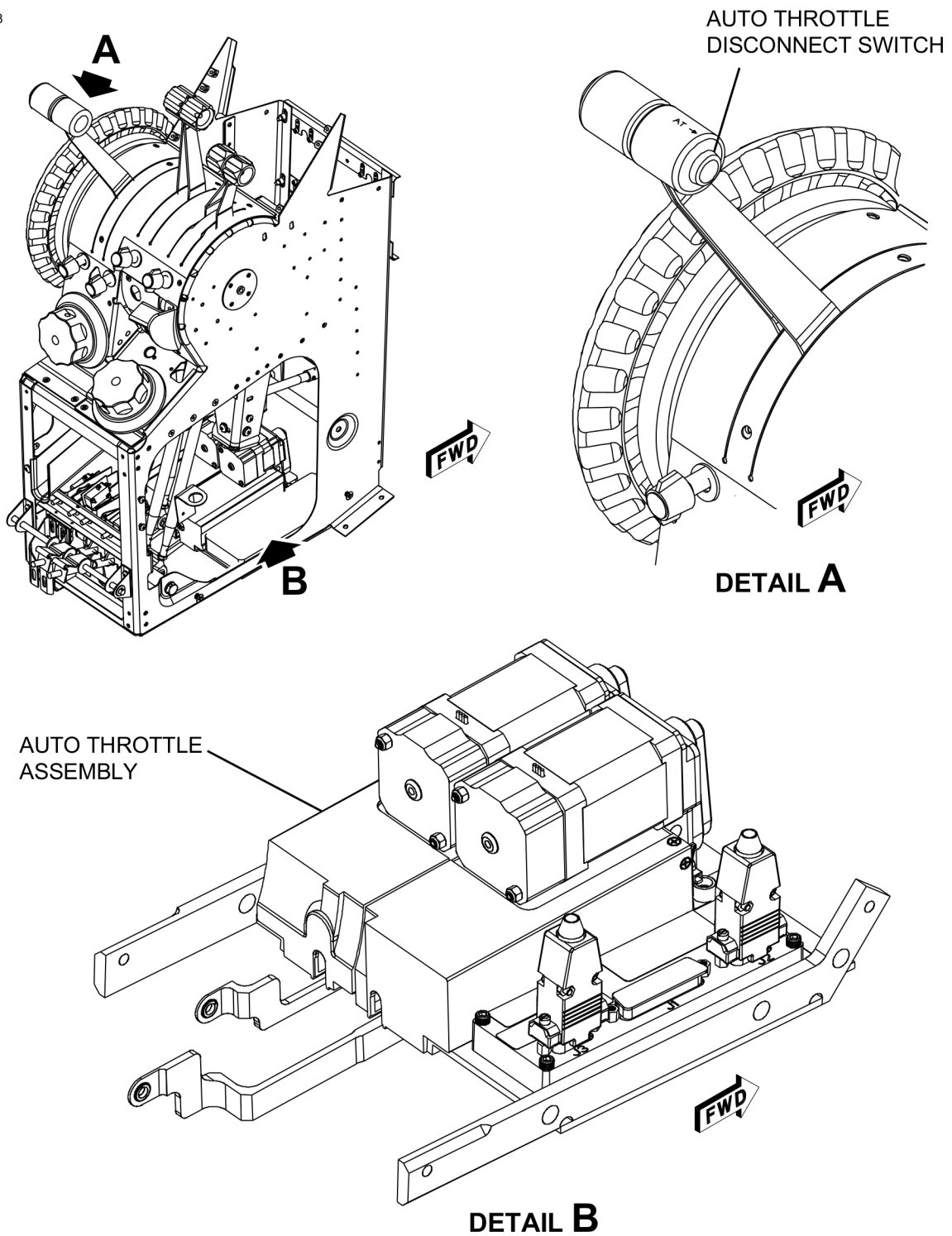
**2. Operation**

A. Auto Throttle System

- (1) The Auto Throttle System operates in two basic control modes, airspeed mode and engine torque mode.
  - (a) The airspeed control mode is based on the selected airspeed of the flight plan data entered into the Flight Management System (FMS). The remote standby controller (RSC) compares the selected airspeed value to the actual airspeed value received from either the air data controller or from the standby display unit (SDU) sensed airspeed, when selected. The auto throttle system then adjusts the power control levers to achieve the selected airspeed.
  - (b) The engine torque control mode is based on engine torque data received from the remote standby controller. The engine torque mode is primarily used during take-off and go-around phases of flight using values based on the recommended settings for take-off performance. These settings are contained within the installation configuration module (ICM) which is connected to the remote standby controller through the main RSC wire harness electrical connector.

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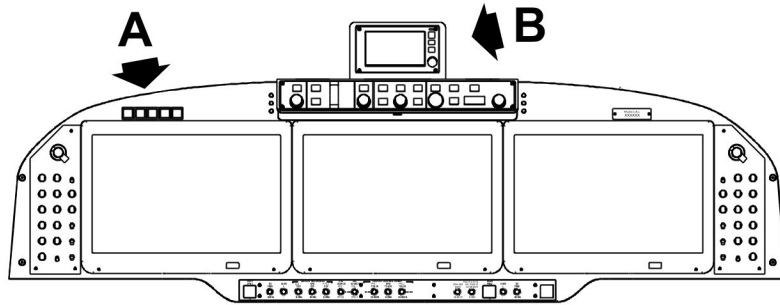
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Auto Throttle Pedestal Components  
Figure 1 (Sheet 1)

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AUTO THROTTLE ENGAGED  
 ANNUNCIATOR



**DETAIL A**



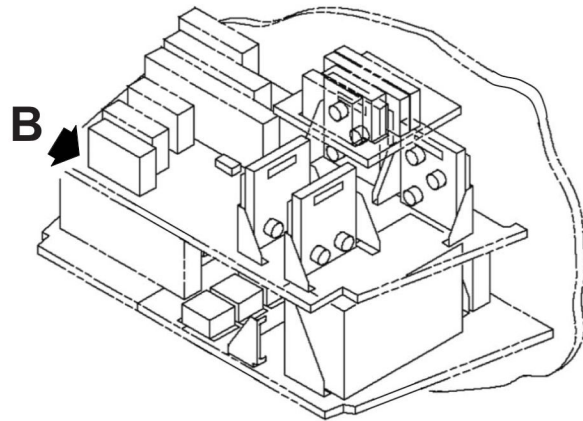
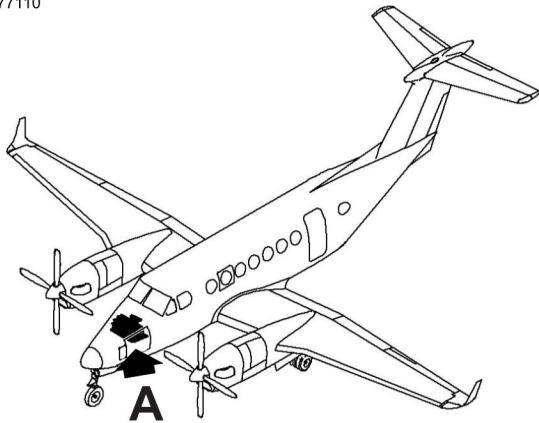
STANDBY DISPLAY UNIT

**DETAIL B**

Auto Throttle Engaged Annunciator and Standby Display unit  
 Figure 2 (Sheet 1)

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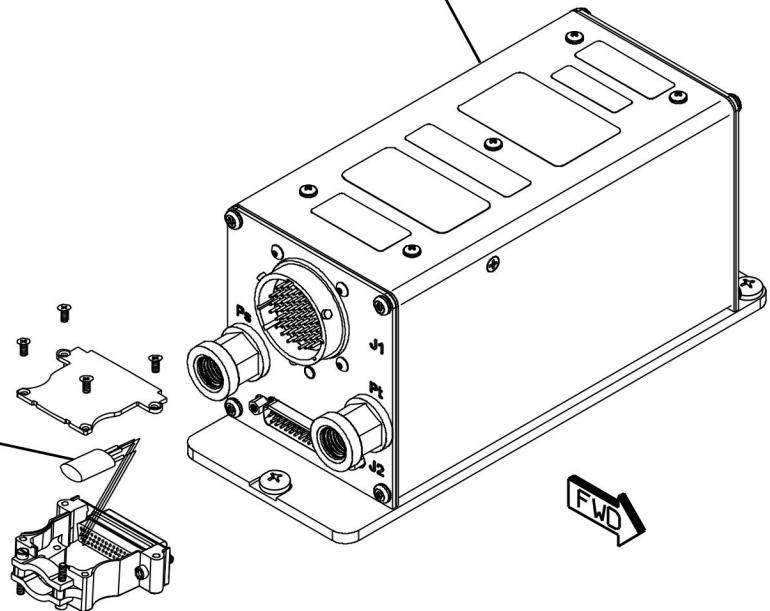
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**DETAIL A**

REMOTE STANDBY CONTROLLER

INSTALLATION CONFIGURATION  
MODULE



**DETAIL B**

Remote Standby Controller and Configuration Module  
Figure 3 (Sheet 1)



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**AUTO THROTTLE SYSTEM - TROUBLESHOOTING**  
 (FL-1300, FL-1307 and After; FM-110 and After)

**1. Information**

Refer to Standard Practices - Airframe Chapter 20-14-00, 201, for information on tools and equipment referenced in Table 601. Refer to Standard Practices - Airframe Chapter 20-15-00, 201, for information on recommended materials referenced in Table 601.

Table 101. Tools/Equipment and Recommended Materials

ITEM	TOOLS AND EQUIPMENT	ITEM	RECOMMENDED MATERIALS
222	Laptop Computer		

**2. Auto Throttle System Failure Mode Summary**

The Auto Throttle System with Standby Display uses built in test equipment (BITE) software to automatically perform self tests during operation. Data inputs from interfacing aircraft systems are monitored for validity and expected transmission rates. If the data is found to be not valid or is missing, the system will respond and indicate a failure on the standby display unit (SDU) screen. If the SDU or the remote standby controller (RSC) detects an internal test failure, the fault may be caused by a failure of the data source or a failure of the SDU/RSC input circuits. Discretes from suspected aircraft systems should be checked before removing a component for repair. The Auto Throttle System with Standby Display is limited to fault diagnoses on the airplane. Individual components of the system cannot be bench tested in the field when removed from the airplane. Individual components that have been determined to not function properly should be returned to the manufacturer for repair. The SDU is the primary interface for all data displayed by the auto throttle system, while the RSC is the primary interface for processing data. If data is not available or is corrupted on a particular data bus, the SDU will display the primary source of feedback for use in troubleshooting. The RSC is equipped with a RS-485 maintenance port to allow connection to a laptop computer for diagnostic testing.

The following table contains a general fault isolation guide of the auto throttle system. For problems isolated to the auto throttle assembly, refer to Paragraph 3 for further detailed troubleshooting of the auto throttle assembly.

Table 102. General System Fault Isolation

PROBLEM	PROBABLE CAUSE	CORRECTIVE ACTION
SDU does not respond to user inputs to the pushbuttons and knobs on the SDU bezel, default settings are in use by the SDU	(a) Internal SDU hardware failure	(a) If no response on the display, return the unit to the manufacturer for repair
Black screen on SDU	(a) No power to SDU (b) Software has been corrupted (c) Internal SDU hardware failure	(a) Cycle power to SDU (b) If no response on SDU, return unit to manufacturer for repair (c) If no response on SDU, return unit to manufacturer for repair
Amber "EXT ADC" message appears on SDU while airspeed signal is active (above approx. 90 kts)	(a) No power to ADC (b) A429 wiring to RSC is swapped, incorrect, or broken (c) Connector between ADC and RSC is loose	(a) Make sure power to ADC is on (b) Check A429 wiring and repair as necessary (c) Check mating connectors and tighten as necessary

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Table 102. General System Fault Isolation (continued)

PROBLEM	PROBABLE CAUSE	CORRECTIVE ACTION
Amber "CONFIG" message is displayed on startup	(a) Installation Configuration Module (ICM) startup test failure	(a) Check ICM wiring interface in backshell of the RSC J2 mating connector. If no change, return ICM to manufacturer for repair or replacement
Amber "MAG" message is displayed on startup	(a) Magnetometer calibration has not been performed (b) Magnetometer calibration information from ICM is invalid or missing	(a) Perform the <b>MAGNETOMETER CALIBRATION</b> Procedure (Ref. 34-23-11, 501)
SDU displays a message for any of the following parameters (a) Airspeed: "SPD" (b) Attitude: "ATT" (c) Altitude: "ALT" (d) Vertical Speed: "VERT" (e) Heading: "HDG"	(a) Pitot Static connection leak or failure (b) Magnetometer interface failure (c) Pitot Static connection leak or failure (d) Pitot Static connection leak or failure (no altitude data) (e) Magnetic Heading source Interface failure	(a) Items (a), (c), (d): Check the pitot static connections and tubing for leaks or breaks, make sure that the RSC is correctly connected (b) Items (b) and (e): Check connection between RSC and the magnetometer for wiring or connector damage and perform the <b>MAGNETOMETER CALIBRATION</b> Procedure (Ref. 34-23-11-501)
SDU displays messages for all five of the following parameters on power up: (a) Airspeed: "SPD" (b) Attitude: "ATT" (c) Altitude: "ALT" (d) Vertical Speed: "VERT" (e) Heading: "HDG"	(a) Serial communication between the SDU and RSC not functioning	(a) Make sure that both units are powered on and are not in the service mode (b) Check wiring between the SDU and RSC and repair as necessary
Display brightness or bezel button brightness does not respond to changes in the brightness knob settings.	The SDU is not receiving lighting data from the RSC or is receiving invalid data	Check connections of the display and bezel lighting inputs to the RSC

### 3. Auto Throttle Assembly Failure Mode Summary

The following table contains a specific fault isolation guide of the auto throttle assembly.



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Table 103. Auto Throttle Assembly Fault Isolation

System Element	Command/Status Indications	Definition
Automatic Throttle annunciator field of the SDU is not present and the auto throttle system is unavailable	(a) A necessary condition for auto throttle operation has become invalid or unavailable while the auto throttle function is on (b) Power lever position sensor data is missing or invalid (c) Torque data is missing or invalid (d) ITT data is missing or invalid (e) AT DISC or Go Around switch is detected as being pressed and held for more than two seconds (f) Maximum engine torque is exceeded (g) Maximum ITT is exceeded (h) Airspeed data is missing or invalid (i) Communication between the auto throttle assembly and SDU has failed	(a) Start the SDU in the service mode and use the selection knob to activate the STATUS page to check the status of all interfaces (b) Check wiring between the auto throttle assembly and the SDU (c) Replace torque transmitter on engine (d) Perform the ITT INDICATING SYSTEM INSPECTION/CHECK procedure (Ref. 77-20-05, 601) (e) Make sure that the A/T DISC or Go Around switches are not stuck (f) Make sure that the engine torque and/or ITT limits are not exceeded (g) Check wiring between ADC and RSC for "SPD" message
Amber "A/T CAL REQ" is displayed on the auto throttle annunciator field of the SDU	Auto throttle calibration data has become invalid or the power on test of the auto throttle power lever movement has failed	Cycle power to the auto throttle system and repeat the power on test of the auto throttle system. If the amber "A/T CAL REQ" is displayed again, perform the AUTO THROTTLE SYSTEM ADJUSTMENT/TEST Procedure (Ref 22-30-00, 501)



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**AUTO THROTTLE SYSTEM - ADJUSTMENT/TEST**  
**(FL-1300, FL-1307 and After; FM-110 and After)**

**1. Auto Throttle System**

**A. Initial Setup**

The following steps must be performed to prepare the system for manual initiation of the Auto Throttle Assembly Calibration, Friction Test and the Override Test. These setup procedures should only be performed when the system is not displaying any fault annunciations.

- (1) Perform the EXTERNAL POWER CONNECTING AND APPLYING procedure (Ref. 24-40-00, 201).
- (2) Set the AVIONICS MASTER POWER switch to ON.
- (3) Set the STANDBY POWER switch to ON.
- (4) Make sure that the ATA MOTOR PWR circuit breaker located on the copilot circuit breaker panel is engaged.
- (5) On the standby display unit (SDU), select the MENU button to activate the menu screen.
- (6) Use the knob to scroll to the SERV MODE menu option. Press the knob once to select this option and once again to activate it.

**NOTE:** The Service Mode is only available for 30 seconds after initial power up.

- (7) On the copilot circuit breaker panel, disengage and re-engage the DISP circuit breaker to cycle power to the SDU. Make sure that the SDU enters the service mode.
- (8) Under the Service Menu, use the knob to scroll to the A/T CONFIG option (Ref. Figure 501). Press the knob to select this option.
- (9) Make sure that the "FRIC" (Friction) and "OVERRIDE" options are available when the A/T CONFIG option has been selected.

**B. Auto Throttle In-Aircraft Range Calibration**

- (1) Make sure that Steps 1.A.(1) thru (7) have been completed for the initial calibration setup.
- (2) Make sure that the throttle friction locks are fully released.
- (3) Use the knob to select the "AFT L" field within the A/T CONFIG menu (Ref. Figure 501).
- (4) After the "AFT L" field is highlighted, move both power control levers to the aft (idle detent) position. Do not move the power control levers into the ground fine position.

**CAUTION:** Do not move the power control levers past the idle detent into the ground fine position. This can cause damage to the control linkages.

- (5) Push the knob on the SDU to calibrate the left power lever aft position. A number that indicates the sensor detected position will appear next to "AFT L" to confirm that the calibration has been saved.
- (6) Turn the knob to select "AFT R" and push the knob to calibrate the right power lever aft position. A number that indicates the sensor detected position will appear next to "AFT R" to confirm that the calibration has been saved.
- (7) Move both power levers to the full forward position.
- (8) Use the knob to select and press both "FORE L" and "FORE R". The "FORE L", "FORE R", "AFT L" and "AFT R" fields should now have corresponding sensor detected position numbers adjacent to each field.
- (9) Perform the FRICTION TEST procedure per Paragraph 1.C. and the OVERRIDE TEST procedure per Paragraph 1.D. of this section.

**C. Friction Test**

This test is performed to make sure that the auto throttle assembly can freely move the power control levers both forward and aft without any hesitation. This procedure also runs automatically upon power up when the airplane is on the ground before engine start.

- (1) On the SDU, navigate to the A/T CONFIG menu option per Paragraph 1.A. of this section.

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- (2) On the SDU display screen, make sure that the "FRIC" and "OVERRIDE" test fields do not indicate that either of these test are currently running.
- (3) Use the knob to select the "FRIC" test field and press the knob (Ref. Figure 501). The text in the "FRIC" test field will display "RUN" in green for each throttle to indicate that the test is active.
- (4) Make sure that each power control lever begin to move forward, then aft, one at a time.

**NOTE:** A power control lever may begin to move aft before moving forward if it was not in the full aft (idle detent) position at the start of the test.

- (5) When both power control levers have completed a full forward and aft movement cycle, read the "FRIC" field numeric value on the "A/T CONFIG" status screen on the SDU for each power control lever.
- (6) Make sure that the "FRIC" field numeric value is not more than 20,000. If the test results are less than 20,000, the test has passed and will automatically deactivate.
- (7) If the test results are more than 20,000, repeat the friction test procedures in this paragraph at least two more times to determine if the test results are consistent. If the test results are consistently above 20,000, contact Textron Aviation Customer Support for further instructions.

**D. Override Test**

This test is performed to make sure that the pilot can move the power control levers with a reasonable force in order to override the calibrated friction strength of the auto throttle assembly. When the override test is started, the SDU will activate the auto throttle assembly to hold both power control levers in place. This allows the person conducting the test to push or pull the power control levers to attempt to overcome the calibrated friction setting of the auto throttle assembly.

- (1) Make sure that the Friction Test in Paragraph 1.C. of this section has been performed and has passed the test.
- (2) On the SDU, navigate to the "A/T CONFIG" menu option per Paragraph 1.A. of this section.
- (3) On the SDU display screen, make sure that the "FRIC" and "OVERRIDE" test fields do not indicate that either of these test are currently running.
- (4) Use the knob to select the "OVERRIDE" test field and press the knob (Ref. Figure 501). The text in the "OVERRIDE" test field will display "ON" to indicate that the test is active.
- (5) Make sure that the throttle friction locks are released.
- (6) With the "OVERRIDE" test active, move each power control lever forward and aft, one at a time. Make sure that excessive force is not required to move each of the power control levers.
- (7) If the power control levers can be moved without excessive force to override the auto throttle assembly, the test has passed. Reselect the "OVERRIDE" test field and press the knob. Make sure that the text in the "OVERRIDE" test field has changed to "OFF".
- (8) If the power control levers cannot be moved without excessive force, discontinue the test and contact Textron Aviation Customer Support for further instructions.

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MULTI-FUNCTION KNOB  
(REF)

STANDBY DISPLAY UNIT (SDU) MENU SCREEN

Standby Display Unit Menu Screen  
Figure 501 (Sheet 1)



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**AUTO THROTTLE SYSTEM - INSPECTION/CHECK**  
(FL-1300, FL-1307 and After; FM-110 and After)

**1. Description**

- A. This document provides the inspection tasks to inspect the auto throttle system components at the intervals specified in Chapter 05.

Task 22-30-00-2100

**2. Auto Throttle Assembly General Visual Inspection**

- A. Task Preparation.
- (1) Special Tools and Equipment.
    - This task does not require the use of any special tools or equipment.
  - (2) Special Consumables.
    - This task does not require the use of any special consumables.
  - (3) External Reference Material.
    - This task does not require the use of any external reference materials.
- B. Configure the Airplane.
- (1) Perform the BATTERY POWER DISCONNECT procedure (Ref. 24-30-01, 201).
  - (2) Perform the PILOT AND COPILOT SEAT REMOVAL procedure (Ref. 25-10-10, 401).
  - (3) Remove the forward pedestal access covers 242AL (LH) and 242AR (RH) (Ref. 06-50-00).
- C. Complete the Auto Throttle Assembly General Visual Inspection.
- (1) Check for loose or missing auto throttle assembly attaching screws (2) and make sure the auto throttle assembly (1) is securely attached to the pedestal structure (Ref. Figure 601, Detail A).
  - (2) Visually inspect the auto throttle assembly actuator arms (4) and (5) for damage and security of attachment to the auto throttle assembly linear actuators (Ref. Figure 601, Detail B).
  - (3) Visually inspect the electrical connectors (3) and associated wiring for damage and security of attachment to the auto throttle assembly (1).
  - (4) Visually inspect the attachment of the actuator arms (4) and (5) to the power control lever bell cranks (6) and (7).
- D. Return the airplane to its initial condition, as necessary.
- (1) Install the forward pedestal access covers 242AL (LH) and 242AR (RH) (Ref. 06-50-00).
  - (2) Perform the PILOT AND COPILOT SEAT INSTALLATION procedure (Ref. 25-10-10, 401).
  - (3) Perform the BATTERY POWER CONNECT procedure (Ref. 24-30-01, 201).

End of task

Task 22-30-00-7100

**3. Power Control Lever Movement Operational Check**

**NOTE:** The Power Control Lever Movement Check must be performed without the engines running and no power applied to the auto throttle system.

- A. Task Preparation.
- (1) Special Tools and Equipment.
    - This task does not require the use of any special tools or equipment.
  - (2) Special Consumables.
    - This task does not require the use of any special consumables.
  - (3) External Reference Material.
    - This task does not require the use of any external reference materials.
- B. Configure the Airplane.
- (1) Configure airplane as necessary.

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- C. Complete the Power Control Lever Movement Operational Check.
- (1) Loosen the power control lever friction knob.
  - (2) Move each power control lever between idle and full power positions. Make sure that each power lever can be moved freely without excessive resistance.

**NOTE:** Movement of the power control levers will cause the auto throttle assembly actuator shafts to rotate, which can be felt as a slight resistance.

- (3) If the movement of either power control lever is not smooth or cannot be moved through its normal range of motion, disconnect the auto throttle assembly from the power control lever bell cranks to isolate the auto throttle assembly from the power control connections.
- (4) If the auto throttle assembly is determined to be the cause of excessive resistance in the power control lever movement, replace the auto throttle assembly.

- D. Return the airplane to its initial condition, as necessary.

End of task

Task 22-30-00-7101

#### 4. Auto Throttle Friction Operational Check

**NOTE:** This test is performed to make sure that the auto throttle assembly can freely move the power control levers both forward and aft without any hesitation. This procedure also runs automatically upon power up when the airplane is on the ground before engine start.

- A. Task Preparation.
- (1) Special Tools and Equipment.
    - This task does not require the use of any special tools or equipment.
  - (2) Special Consumables.
    - This task does not require the use of any special consumables.
  - (3) External Reference Material.
    - This task does not require the use of any external reference materials.
- B. Configure the Airplane.
- (1) Perform the EXTERNAL POWER CONNECTING AND APPLYING procedure (Ref. 24-40-00, 201).
  - (2) Set the AVIONICS MASTER POWER switch to ON.
  - (3) Set the STANDBY POWER switch to ON.
  - (4) Make sure that the ATA MOTOR PWR circuit breaker located on the copilot circuit breaker panel is engaged.
  - (5) On the standby display unit (SDU), select the MENU button to activate the menu screen.
  - (6) Use the knob to scroll to the SERV MODE menu option. Press the knob once to select this option and once again to activate it.

**NOTE:** The Service Mode is only available for 30 seconds after initial power up.

- (7) On the copilot circuit breaker panel, disengage and re-engage the DISP circuit breaker to cycle power to the SDU. Make sure that the SDU enters the service mode.
  - (8) Under the Service Menu, use the knob to scroll to the A/T CONFIG option (Ref. Figure 602). Press the knob to select this option.
  - (9) Make sure that the "FRIC" (Friction) and "OVERRIDE" options are available when the A/T CONFIG option has been selected.
- C. Complete the Auto Throttle Friction Operational Check.
- (1) On the Standby Display Unit (SDU), navigate to the A/T CONFIG menu option per Paragraph 4.B. of this section.
  - (2) On the SDU display screen, make sure that the "FRIC" and "OVERRIDE" test fields do not indicate that either of these test are currently running.



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- (3) Use the knob to select the "FRIC" test field and press the knob (Ref. Figure 602). The text in the "FRIC" test field will display "RUN" in green for each throttle to indicate that the test is active.
- (4) Make sure that each power control lever begin to move forward, then aft, one at a time.

**NOTE:** A power control lever may begin to move aft before moving forward if it was not in the full aft (idle detent) position at the start of the test.

- (5) When both power control levers have completed a full forward and aft movement cycle, read the "FRIC" field numeric value on the "A/T CONFIG" status screen on the SDU for each power control lever.
- (6) Make sure that the "FRIC" field numeric value is not more than 20,000. If the test results are less than 20,000, the test has passed and will automatically deactivate.
- (7) If the test results are more than 20,000, repeat the friction test procedures in this paragraph at least two more times to determine if the test results are consistent. If the test results are consistently above 20,000, contact Textron Aviation Customer Support for further instructions.

D. Return the airplane to its initial condition, as necessary.

End of task

Task 22-30-00-7102

## 5. Auto Throttle System Override Operational Check

**NOTE:** This test is performed to make sure that the pilot can move the power control levers with a reasonable force in order to override the calibrated friction strength of the auto throttle assembly. When the override test is started, the SDU will activate the auto throttle assembly to hold both power control levers in place. This allows the person conducting the test to push or pull the power control levers to attempt to overcome the calibrated friction setting of the auto throttle assembly.

**NOTE:** Make sure that the Auto Throttle Friction Operational Check has been performed and has passed the test successfully.

A. Task Preparation.

- (1) Special Tools and Equipment.
  - This task does not require the use of any special tools or equipment.
- (2) Special Consumables.
  - This task does not require the use of any special consumables.
- (3) External Reference Material.
  - This task does not require the use of any external reference materials.

B. Configure the Airplane.

- (1) Perform the EXTERNAL POWER CONNECTING AND APPLYING procedure (Ref. 24-40-00, 201).
- (2) Set the AVIONICS MASTER POWER switch to ON.
- (3) Set the STANDBY POWER switch to ON.
- (4) Make sure that the ATA MOTOR PWR circuit breaker located on the copilot circuit breaker panel is engaged.
- (5) On the standby display unit (SDU), select the MENU button to activate the menu screen.
- (6) Use the knob to scroll to the SERV MODE menu option. Press the knob once to select this option and once again to activate it.

**NOTE:** The Service Mode is only available for 30 seconds after initial power up.

- (7) On the copilot circuit breaker panel, disengage and re-engage the DISP circuit breaker to cycle power to the SDU. Make sure that the SDU enters the service mode.
- (8) Under the Service Menu, use the knob to scroll to the A/T CONFIG option (Ref. Figure 602). Press the knob to select this option.

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(9) Make sure that the "FRIC" (Friction) and "OVERRIDE" options are available when the A/T CONFIG option has been selected.

C. Complete the Auto Throttle System Override Operational Check.

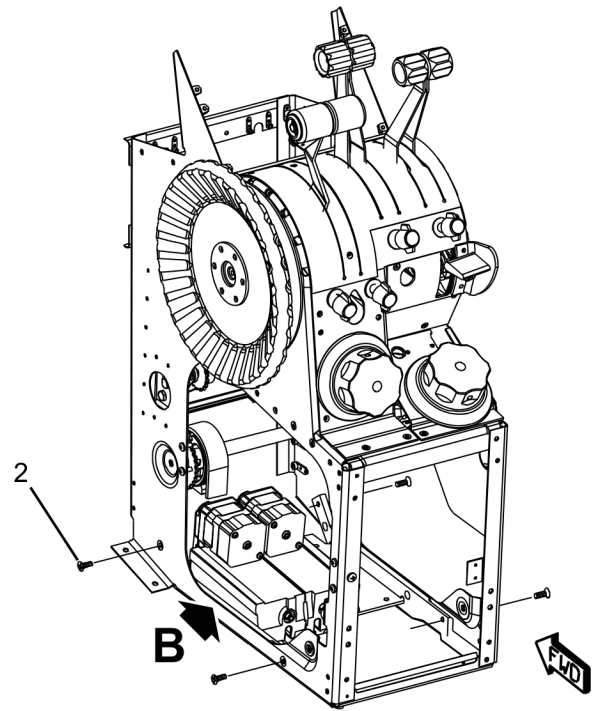
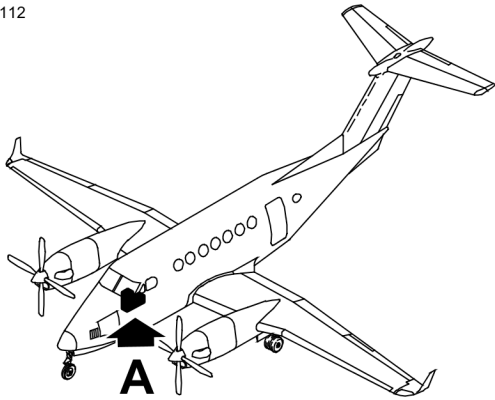
- (1) On the SDU, navigate to the "A/T CONFIG" menu option per Paragraph 5.B. of this section.
- (2) On the SDU display screen, make sure that the "FRIC" and "OVERRIDE" test fields do not indicate that either of these test are currently running.
- (3) Use the knob to select the "OVERRIDE" test field and press the knob (Ref. Figure 602). The text in the "OVERRIDE" test field will display "ON" to indicate that the test is active.
- (4) Make sure that the throttle friction locks are released.
- (5) With the "OVERRIDE" test active, move each power control lever forward and aft, one at a time. Make sure that excessive force is not required to move each of the power control levers.
- (6) If the power control levers can be moved without excessive force to override the auto throttle assembly, the test has passed. Reselect the "OVERRIDE" test field and press the knob. Make sure that the text in the "OVERRIDE" test field has changed to "OFF".
- (7) If the power control levers cannot be moved without excessive force, discontinue the test and contact Textron Aviation Customer Support for further instructions.

D. Return the airplane to its initial condition, as necessary.

End of task

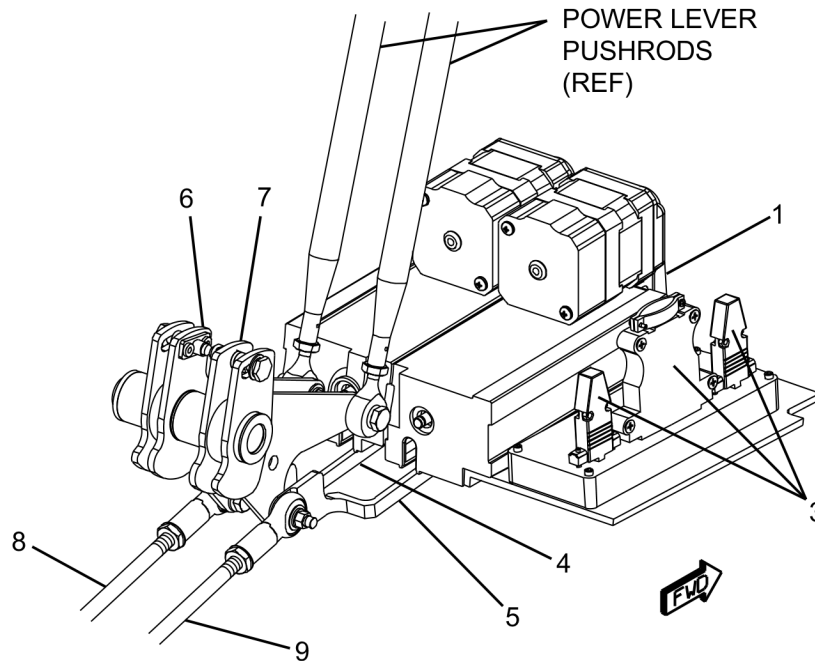
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1. AUTO THROTTLE ASSEMBLY
2. SCREW
3. ELECTRICAL CONNECTORS
4. LEFT ACTUATOR ARM
5. RIGHT ACTUATOR ARM
6. LEFT BELL CRANK
7. RIGHT BELL CRANK
8. LEFT POWER CONTROL CABLE
9. RIGHT POWER CONTROL CABLE

**DETAIL A**



**DETAIL B**

Auto Throttle Assembly Installation  
 Figure 601 (Sheet 1)

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E77551



MULTI-FUNCTION KNOB  
(REF)

STANDBY DISPLAY UNIT (SDU) MENU SCREEN

Standby Display Unit Menu Screen  
Figure 602 (Sheet 1)



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**AUTO THROTTLE ASSEMBLY - REMOVAL/INSTALLATION**  
(FL-1300, FL-1307 and After; FM-110 and After)

**1. Auto Throttle Assembly**

**A. Removal**

- (1) Perform the BATTERY POWER DISCONNECT procedure (Ref. 24-30-01, 201).
- (2) Open the left engine inboard upper aft cowl door and the right engine outboard upper aft cowl door.
- (3) On each engine, remove the cotter pin (5), nut (4), washers (3) and the bolt (2) that attaches power control cable rod end (1) to the input lever (6) (Ref. Figure 402, Detail A). Discard the cotter pin and retain the remaining hardware for later installation.
- (4) In the cockpit, disengage the ATA MOTOR PWR circuit breaker.
- (5) Perform the PILOT AND COPILOT SEAT REMOVAL procedure (Ref. 25-10-10, 401).
- (6) Remove the forward pedestal access panels 242AL (LH) and 242AR (RH) (Ref. 06-50-00).
- (7) Tag and disconnect the P1, P2 and P3 electrical connectors (3) from the auto throttle assembly (1) (Ref. Figure 401, Detail B).
- (8) Move the left power lever to the full aft position and the right power lever to the full forward position.
- (9) Remove the nut (12), washer (11) and bolt (10) that attaches the left power control cable (8) and the left auto throttle actuator arm (4) to the left bell crank (6) (Ref. Figure 401, View C-C). Push the left auto throttle actuator arm (4) to the full forward position.
- (10) Move the left power lever to the full forward position and the right power lever to the full aft position.
- (11) Remove the nut (12), washer (11) and bolt (10) that attaches the right power control cable (9) and the right auto throttle actuator arm (5) to the right bell crank (7) (Ref. Figure 401, View C-C). Push the right auto throttle actuator arm (5) to the full forward position.
- (12) Move both power control levers to the full aft position.
- (13) Remove the four screws (2) that attach the auto throttle assembly (1) to the pedestal structure (Ref. Figure 401, Detail A). Retain the four screws for installation.
- (14) Remove the auto throttle assembly (1) from the pedestal through the opening in the copilot side of the pedestal.

**B. Installation**

- (1) Make sure that both power control levers are in the full aft position.
- (2) Place the auto throttle assembly (1) into the pedestal through the opening in the copilot side of the pedestal.
- (3) Move the auto throttle assembly (1) into its proper position in the pedestal and install the four screws (2) (Ref. Figure 401, Detail A).
- (4) Install the bolt (10) through the bushing in the left actuator arm (4) and through the left bell crank (6) (Ref. Figure 401, View C-C).
- (5) Place the rod end of the left power control cable (8) onto the bolt (10) and install the washer (11) and nut (12). Torque the nut from 12 to 15 inch-pounds.
- (6) Install the bolt (10) through the hole in the right bell crank (7) and through the bushing in the right actuator arm (5).
- (7) Place the rod end of the right power control cable (9) onto the bolt (10) and install the washer (11) and nut (12). Torque the nut from 12 to 15 inch-pounds.
- (8) Fully loosen the throttle friction adjustment knobs. Make sure that the power control levers can be moved forward and aft without excessive resistance.

**NOTE:** A slight resistance should be observed while moving the power levers forward and aft, due to the auto throttle assembly clutch mechanisms.

- (9) Remove the tags and connect the P1, P2 and P3 electrical connectors (3) (Ref. Figure 401, Detail A).
- (10) On each engine, attach the power lever cable rod end to the input lever (6) with the bolt (2), washers (3) and nut (4). Tighten the nut (4) and install a new cotter pin (5) (Ref. Figure 402, Detail A).
- (11) Engage the ATA MOTOR PWR and DISP circuit breakers.

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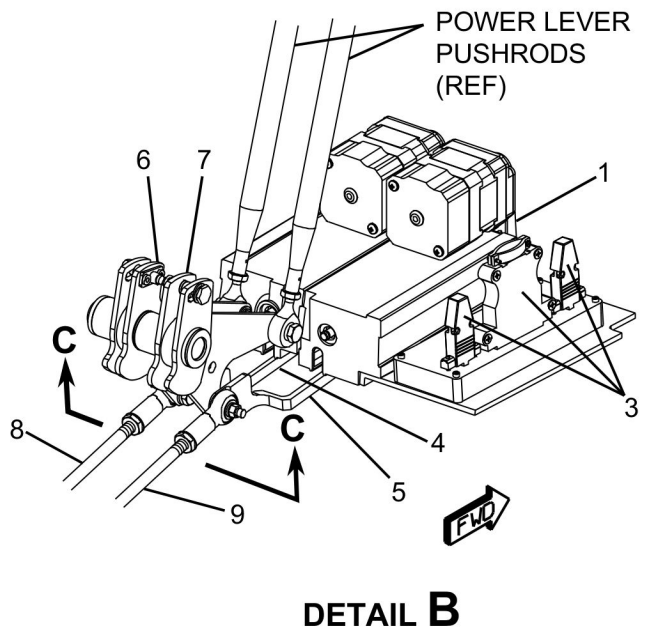
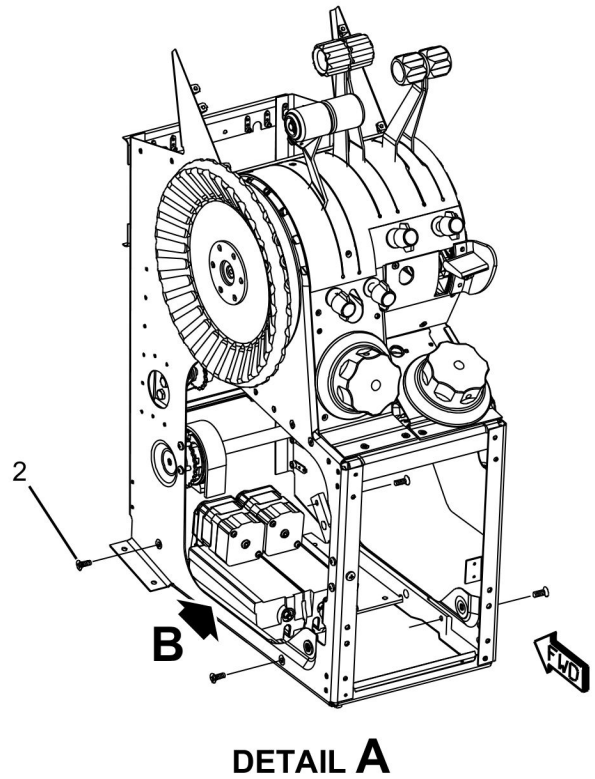
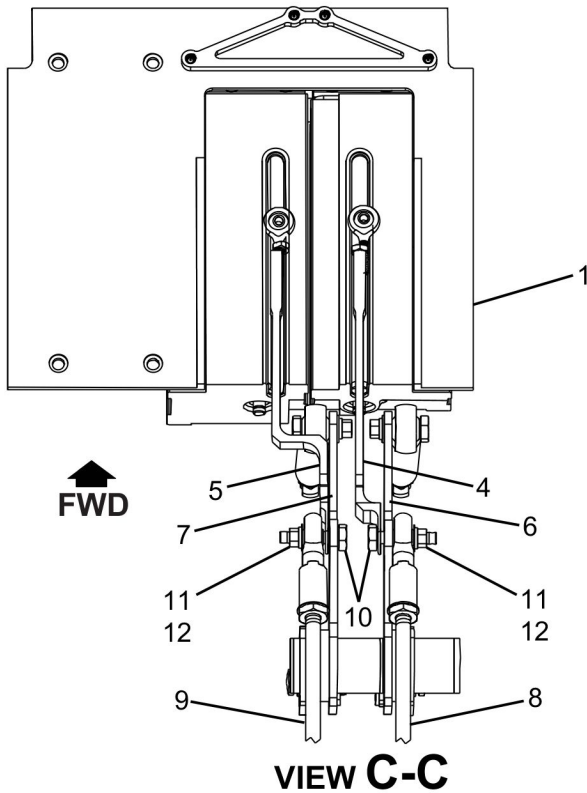
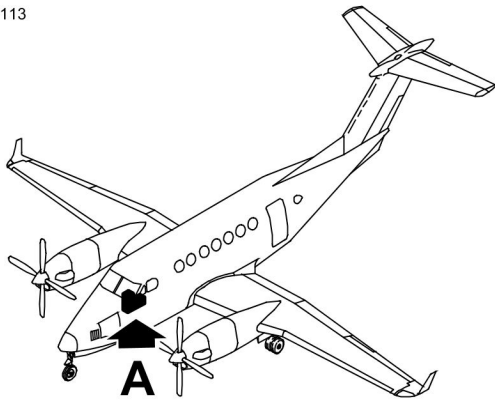
- (12) Perform the BATTERY POWER CONNECT procedure (Ref. 24-30-01, 201).
- (13) Set the BAT switch to ON.
- (14) Set the AVIONICS MASTER POWER switch to ON.

**NOTE:** When power is applied to the avionics system, the auto throttle system will perform a power on self-test. This test makes sure that the auto throttle assembly actuators are able to move the power control levers through their full range of motion.

- (15) Observe the movement of the power control levers as the auto throttle system performs a power on self-test. Make sure the power control levers move through their full range of motion freely without binding or excessive force.
- (16) Perform the AUTO THROTTLE SYSTEM OVERRIDE TEST procedure (Ref. 22-30-00, 601).
- (17) Install access panels 242AL (LH) and 242AR (RH) on the pedestal.
- (18) Perform the PILOT AND COPILOT SEAT INSTALLATION procedure (Ref. 25-10-10, 401).

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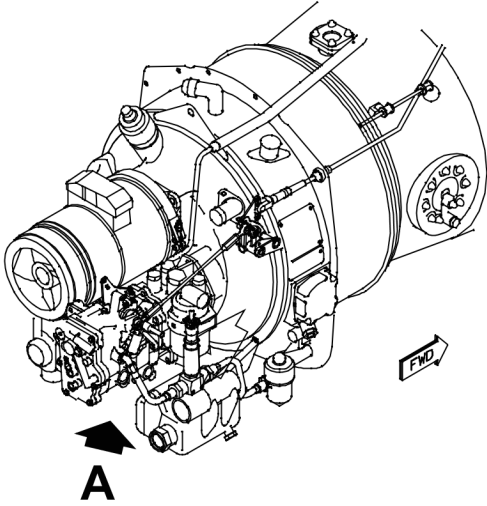
1. AUTO THROTTLE ASSEMBLY
2. SCREW
3. ELECTRICAL CONNECTORS (P1, P2, P3)
4. LEFT ACTUATOR ARM
5. RIGHT ACTUATOR ARM
6. LEFT BELL CRANK
7. RIGHT BELL CRANK
8. LEFT POWER CONTROL CABLE
9. RIGHT POWER CONTROL CABLE
10. BOLT
11. WASHER
12. NUT

Auto Throttle Assembly Installation  
 Figure 401 (Sheet 1)

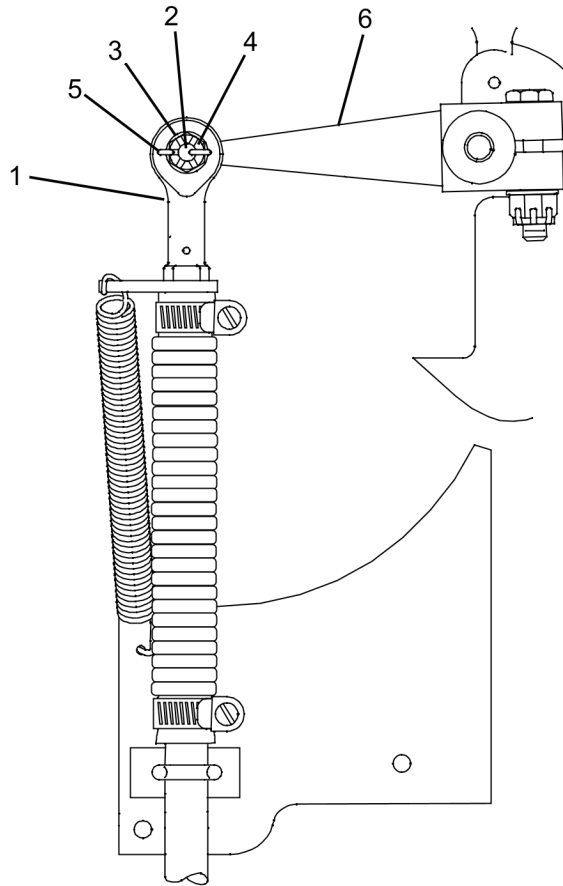


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1. POWER CONTROL CABLE ROD END
2. BOLT
3. WASHER
4. NUT
5. COTTER PIN
6. INPUT LEVER



**DETAIL A**

Power Control Cable Attachment at Engine  
Figure 402 (Sheet 1)



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**DC GENERATION AND CONTROL SYSTEM - DESCRIPTION AND OPERATION**  
(FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306; FM-66 thru FM-109)

**1. Description**

The DC generation and control system consists of two DC starter/generators, the battery, three current sensors, two generator control panels, two line-contactor relays, three bus-tie relays, two generator control relays, two generator control switches, a bus-tie control switch, bus-sense switch and the bus-tie control PCB. The system also includes load and voltage indication for all three power sources and five Crew Alerting System (CAS) messages that indicate the status of the system (Ref. Figure 1).

**A. DC Starter/Generators**

The starter/generators are dual-purpose, 28 volt, 300 ampere units which produce torque for engine starts or generate electrical current to meet the airplane electrical loads. A quick-disconnect mounting adapter is bolted to a mounting pad on the engine accessory gearbox, providing the starter/generator with a pin-aligned mount. The unit mates with the engine gearbox by means of a splined drive shaft, providing a direct torque transfer for both generator and starter functions. Should a condition occur causing excessive torque at the starter/generator splined drive-shaft, the shaft will shear, minimizing damage to the starter/generator and engine components. An internal shaft-driven fan draws outside air through the starter/generator to provide ground cooling.

A series starter winding is used for starter operation, and a shunt field winding is used during generator operation. Refer to Chapter 80-00-00, 001 for general information on starter operation. The starter/generator interpole and compensating windings are in series with the armature and provide a voltage proportional to starter/generator output current. Voltage developed across the interpole and compensating windings is output at terminal D of the starter/generator. The generator control panel senses this voltage at pin D to provide equalization during dual generator operation. Each generator control panel also provides a field excitation voltage from pin M to terminal A on the starter/generator. While monitoring starter/generator output at pin B, the generator control panel adjusts field excitation voltage accordingly, thereby regulating starter/generator output at terminal B within the normal range of  $28.25 \pm 0.25$  VDC.

**B. Generator Control Panels**

The generator control panels are self-contained units mounted on the Main Power Distribution Panel (A145). Each starter/generator has its own generator control panel to provide line-contactor relay control, voltage regulation, generator paralleling, differential voltage sensing and control, reverse current sensing and control, overvoltage and overexcitation protection and cross-start current limiting. There are two voltage-measurement jacks and a voltage-adjustment screw on the face of each unit to allow for the adjustment of starter/generator output through the generator control panel regulator circuit (Ref. 24-30-05, 501) (Ref. Figure 1).

**(1) Field Flash Circuit and Voltage Regulation**

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The generator control panel monitors starter/generator output voltage and controls the shunt field excitation to maintain a constant voltage under varying operating conditions such as speed, load and temperature. Before the control panel can regulate starter/generator output, it must use residual voltage to build starter/generator output to a level the regulation circuit can control. Residual voltage, normally 0.3 to 2.0 VDC, is present at terminal B of the starter/generator as long as the unit is spinning and the control panel is not supplying a regulator voltage to the shunt field at terminal A of the starter/generator. When either generator control switch is placed in the GEN RESET position, a low-resistance path is established from terminal B of the starter/generator to pin K on the control panel, through an internal relay, then out pin M and back to the starter/generator at terminal A. Upon reaching terminal A of the starter/generator, residual voltage excites the shunt field and increases output at terminal B of the starter/generator until the control panel internal relay energizes, breaking the field flash path. At this point, starter/generator output voltage should be sufficient to allow the regulator circuit to take over and continue increasing starter/generator output until  $28.25 \pm 0.25$  VDC is reached. The control panel will continue to regulate the starter/generator by adjusting output at pin M to maintain starter/generator output at  $28.25 \pm 0.25$  VDC. Anytime the generator control switch is placed in the OFF position, this switch must be placed in the GEN RESET position to excite the field, increase starter/generator output and bring it back on line (Ref. Figure 1).

(2) **Line-Contactor Relay Control**

Each starter/generator is connected to its respective generator bus by a line-contactor relay. The line-contactor relays are located on their respective Forward Power Distribution Panel (A251 LEFT, A252 RIGHT). When the generator control switch is in the ON position and the generator control relay is de-energized (start signal removed), voltage from terminal B of the starter/generator is applied to pin C of the generator control panel. Bus voltage is sensed at pin A of the control panel and compared to starter/generator output voltage at pin B of the generator control panel. When the voltage at B is 0.5 VDC greater than A, an output from pin H of the generator control panel will close the line-contactor relay. The yellow R DC Generator or L DC Generator (CAS) messages go off and generator output is applied to the bus-tie relay contacts for distribution. The generator control panel monitors a number of inhibiting signals and will open the line-contactor relay should a fault occur requiring isolation of the starter/generator from the generator bus (Ref. Figure 1).

(3) **Starter/Generator Paralleling**

The generator control panels incorporate circuitry to maintain the starter/generator electrical loads within 10 percent of each other for their entire operating range. An equalizer relay in each generator control panel is used to connect both starter/generator equalizer channels when the line-contactor relay is closed, enabling the generator control panel equalizer circuit only when load-sharing is possible. The bus-tie control PCB also incorporates an internal relay to provide an interconnect between pin E of each generator control panel. The bus-tie control PCB internal circuitry will not close its internal relays until it receives signals indicating that the line-contactor and bus-tie relays are closed for both sides of the system. Once these conditions for load-sharing are met, each generator control panel will compare the interpole winding voltages from terminal D of both starter/generators to determine the relative amount of load current being supplied by each starter/generator. The generator control panels accomplish this by sensing interpole voltage (of the starter/generator they are regulating) at pin D and the opposite side starter/generator interpole voltage at pin E. The generator control panels then bias their voltage regulation circuits accordingly, adjusting voltage output at pin M to accomplish equal load-sharing. Precise load distribution from the generator control panels is provided without the need for adjustment while the units are in service (Ref. Figure 1).

(4) **Overexcitation Protection**

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When a failure occurs causing excessive field excitation, the affected starter/generator will attempt to carry all of the airplane's electrical load. During parallel operation, this is sensed at the generator control panel by comparing interpole voltages of the starter/generators. The starter/generator will be de-energized if generator bus voltage is greater than 28.25 VDC and the output current differential between starter/generators is greater than 15 percent for 5 seconds. This circuit functions during parallel operation only and does not require an overvoltage condition to function (Ref. Figure 1).

**(5) Reverse Current and Polarity Protection**

When the generator field becomes underexcited for any reason, or when the starter/generator slows down to a point where it can no longer maintain a positive load, it will begin to draw current from the center bus. The reverse current protection function senses starter/generator interpole voltage at pin D of the generator control panel to determine if the starter/generator has become a load rather than a power source. If reverse current is present, indicated by positive voltage at pin D, the generator control panel will open the line-contactor relay and remove the starter/generator from the bus. During engine shutdown, the unit will have a tendency to wait longer to open the line-contactor relay. This will eliminate unnecessary cycling of the line-contactor relay during a normal condition (Ref. Figure 1).

**NOTE:** The starter/generator does not require a reset when the generator control panel reverse current protection circuit has been tripped. The generator control panel will automatically reset its internal circuitry.

In the case of starter/generator reverse-polarity buildup, the generator control panel protects the electrical system from damage by tripping an internal-field relay to de-energize the affected starter/generator.

**(6) Overvoltage Protection**

If a fault occurs where starter/generator output or bus voltage is supplied to the generator field at terminal A of the starter/generator, or should the voltage regulation circuit fail, the affected starter/generator will attempt to assume the full load as its input voltage increases. If bus voltage increases above  $28.25 \pm 0.25$  VDC, reverse current will begin to flow to the regulated starter/generator and the line-contactor relay will be opened, isolating the regulated starter/generator from the buses. If the affected starter/generator output voltage rises above 32.5 VDC, it will be removed from the bus and the unaffected starter/generator will automatically be reconnected. The resultant voltage depends upon starter/generator speed, electrical load and the nature of the fault (Ref. Figure 1).

The generator control panels monitor starter/generator output voltage at pin J for excessive voltage that could potentially damage the airplane electrical system. If starter/generator output exceeds 32.5 VDC, an inverse time delay will trip an internal field relay to de-energize the starter/generator and open the line-contactor relay. Slight voltage surges will normally be associated with a longer time delay to prevent nuisance trips of the internal field relay, whereas a severe increase will cause an immediate trip. This overvoltage protection circuit requires a manual reset of the starter/generator to bring the starter/generator back on-line.

A completely separate circuit is used to open the line-contactor relay if voltage exceeds 40 VDC. This provides extra protection of the electrical system and allows a faster response to a fault because it does not work on a time delay. Manual reset of this individual circuit is not required because there is no time-delay mechanism.

An overvoltage condition arising from a resistive connection in the signal ground wire to the generator control panel can be detected by the generator control panel with an alternate ground-return path. This ground allows the generator control panel to sense an otherwise undetectable overvoltage condition and provide an automatic trip of the internal field relay.

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Provisions are made within the generator control panel to exercise the overvoltage-protection circuit. When the generator control switch is moved from ON to OFF, voltage is removed from pin C of the generator control panel (line-contactor in), opening the line-contactor relay. Once in the OFF position, the generator control switch applies starter/generator output to pin P (overvoltage test) of the generator control panel, tripping the control panel overvoltage circuit and shutting down the starter/generator. This circuit allows the generator control panel to shutdown its starter/generator without creating an actual overvoltage condition. Refer to Chapter 24-30-05, 501 for procedures to check proper operation of the overvoltage circuit.

**(7) Cross-Start Overload Current Limiting**

The generator control panels have a feature that limits the on-line starter/generator output current during engine cross-starts. This circuit prevents the on-line starter/generator from providing excess current to the starter/generator being used as a starter. When either ignition/start switch on the pilot's outboard subpanel is placed in either the ON or STARTER ONLY position, a signal is applied to pin R of the opposite generator control panel, enabling its current limiting circuit. The generator control panel will then limit starter/generator output until the signal is removed from pin R (Ref. Figure 1).

**C. Generator Control Relay**

The generator control relays are located on the Main Power Distribution Panel (A145) with the generator control panels. Each relay utilizes three sets of contacts and is energized when the respective ignition/start switch is placed in the ON or STARTER ONLY position. One set of contacts supplies starter/generator output to voltage at pin J of the generator control panel, allowing the control panel to sense any overvoltage that may be present when the relay is de-energized. When the generator control relay is energized, the same set of contacts opens and removes power from pin J of the control panel. This inhibits any generator output during starter operation. The two remaining sets are closed only when the relay is energized. One set provides 28 VDC to energize the engine start relay and the other set shorts the shunt field of the starter/generator during engine starts, preventing transients from entering the generator control panel.

**D. Bus-Tie Control PCB**

The bus-tie control PCB monitors the current sensor signals and other inputs to provide control of the bus-tie relays. When the current sensors are not sensing an overcurrent and at least one line-contactor relay is closed, the bus-tie control PCB will close the generator bus-tie relays, powering the center, battery and opposite generator bus with generator power (Ref. Figure 1). Whenever reverse current of 275 amperes or greater flows through one of the current sensors, the affected current sensor will signal the bus-tie control PCB to open the applicable generator bus-tie relay, thereby isolating the overcurrent to that bus. The bus-tie control PCB will close the battery bus-tie relay anytime the battery switch is placed in the ON position and no overcurrent exists. Battery power is then connected to the battery bus, center bus and triple-fed bus. Refer to Chapter 24-60-00, 001 for more information on current sensor function.

**(1) Generator Bus-Tie and Bus-Sense Switches**

The generator bus-tie switch, located on the pilot's outboard subpanel, has several functions implemented through three switch positions. The MAN CLOSED position manually closes the generator bus-tie relays through the bus-tie control PCB which also illuminates the cyan Man Ties Close (CAS) message. The NORM position allows the bus-tie PCB to analyze bus voltages and automatically close the generator bus-tie relays when no fault exists (Ref. Figure 1).

The bus-sense switch, adjacent to the bus-tie control switch, simulates an overcurrent condition by applying voltage to all three current sensors anytime it is placed in the TEST position. The switch must be moved to RESET anytime the bus-tie relays have been opened by an overcurrent or test. The switch does not influence the system when in the NORM position. Refer to Chapter 24-60-00, 001 for detailed information on operation of the MAN TIES and BUS SENSE switches.

**(2) Bus-Tie Relays**

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There are three bus-tie relays used to connect the three DC power sources to the main buses. They consist of the battery, left generator and right generator bus-ties. The generator bus-tie relays are located on their respective inboard nacelle Aft Power Distribution Panel (A253 left, A254 right) and the battery bus-tie relay is located on the Battery Power Distribution Panel (A228). Each generator bus-tie relay has two sets of auxiliary contacts. The first set allows the generator control panel to sense center bus voltage when the contacts are open and to sense generator bus voltage when they are closed. The second set provides 28 VDC to illuminate the respective yellow L Gen Tie Open or R Gen Tie Open (CAS) caution messages when the bus-tie relay is open. The battery bus-tie relay uses only one set of auxiliary contacts which provides 28 VDC to illuminate the yellow Battery Tie Open (CAS) caution message when the bus-tie is open (Ref. Figure 1).

The bus-tie control PCB also provides an interconnect for the generator control panels during starter/generator parallel operation. It consists of a connection from each generator control unit pin E to the bus-tie control PCB at pins 29 and 40. The bus-tie control PCB uses an internal relay to connect the paralleling channels when the line-contactor and bus-tie relays are closed. This feature makes sure that load-sharing is possible only when both starter/generators are on-line with their bus-tie relays closed.

E. Leading Edge Electrical Equipment Panel (A227)

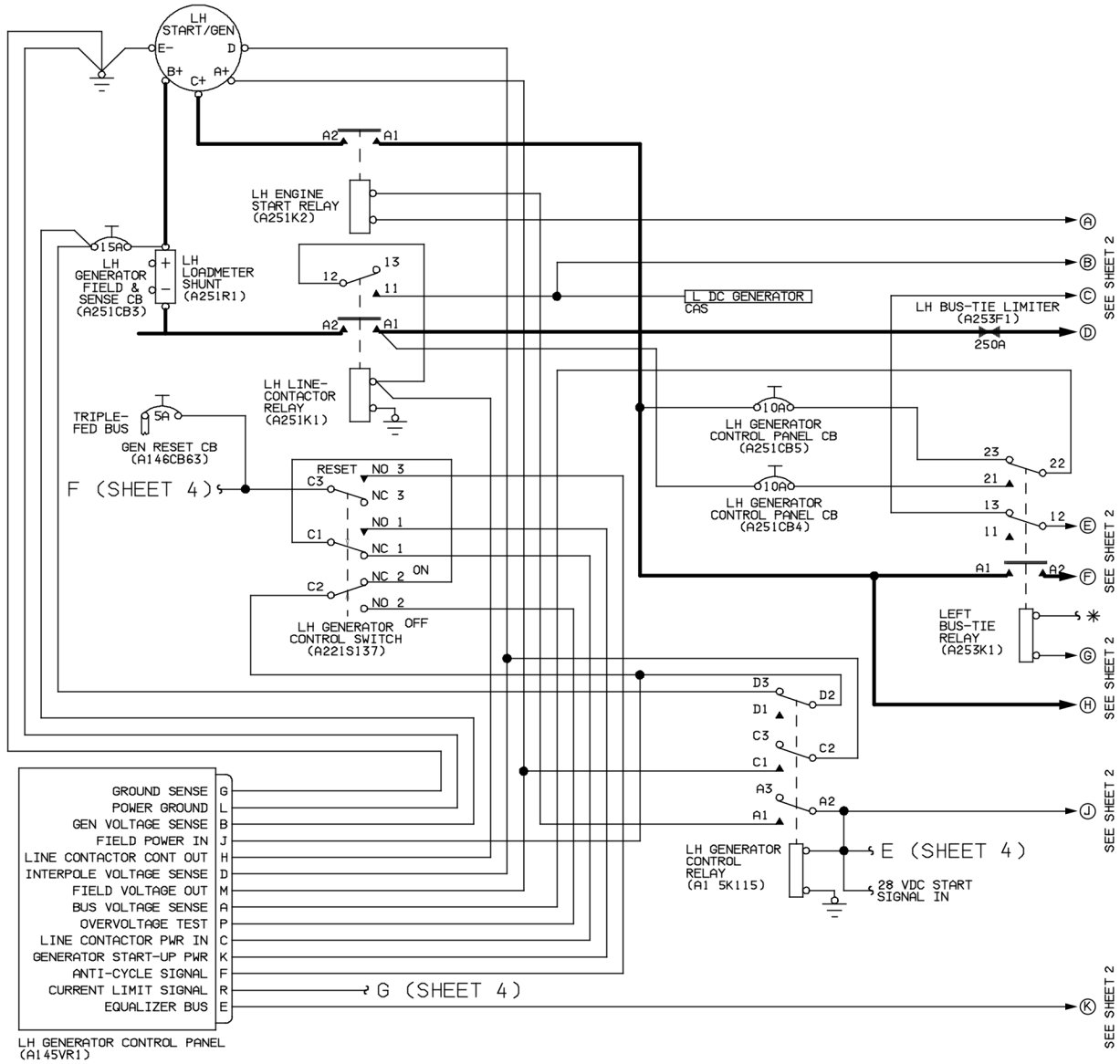
The leading edge electrical equipment panel is located at zone 511, approximately 24 inches from the left side of the fuselage, inboard of the left nacelle, inside the leading edge (Ref. Figure 2).

F. Battery Power and Distribution Equipment Panel (A228)

The battery power and distribution equipment panel is located at zone 611, on the right wing, inboard of the nacelle, forward of the battery box and under the leading edge (Ref. Figure 3).

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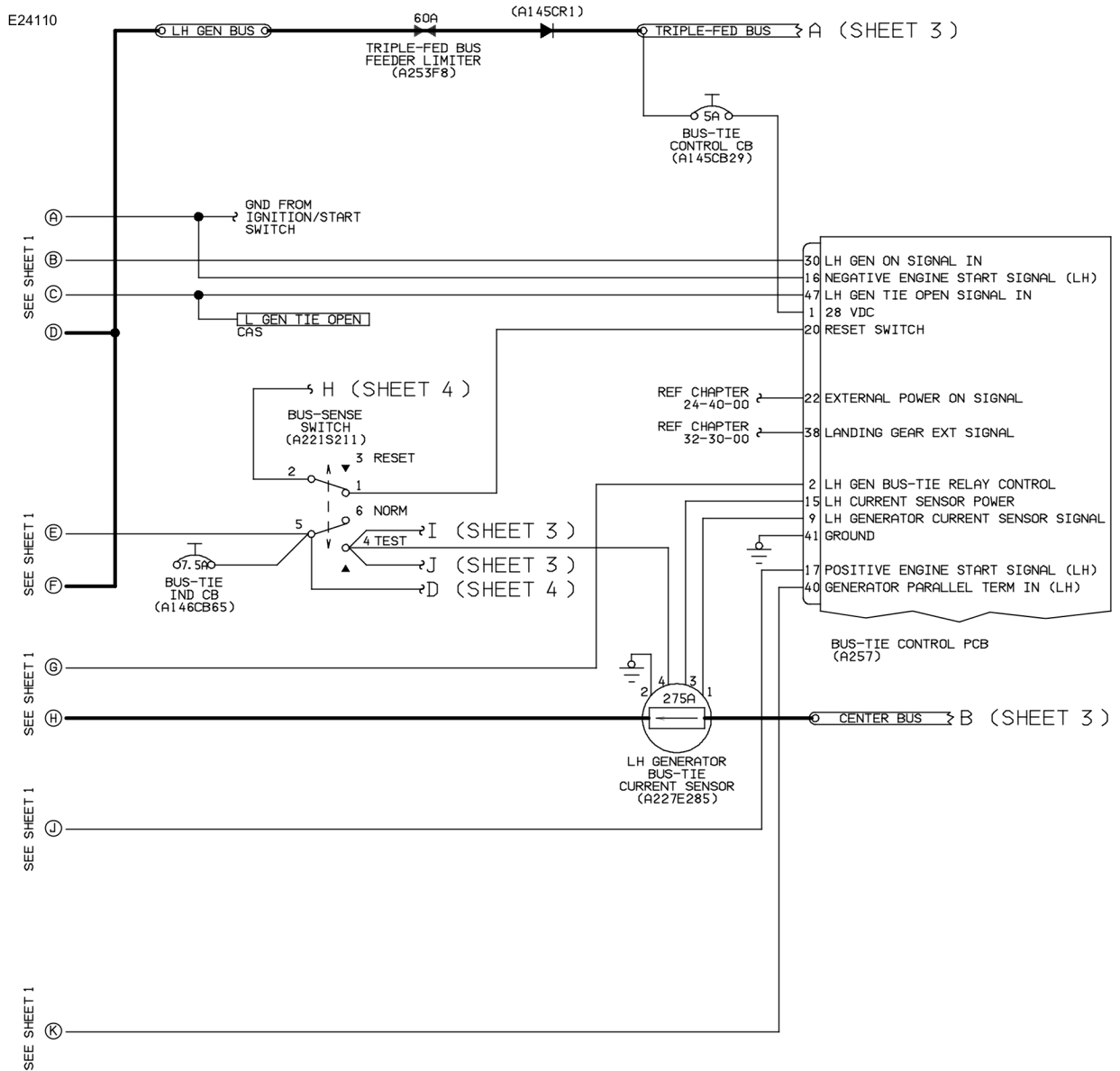


DC Generation and Control System  
Figure 1 (Sheet 1)

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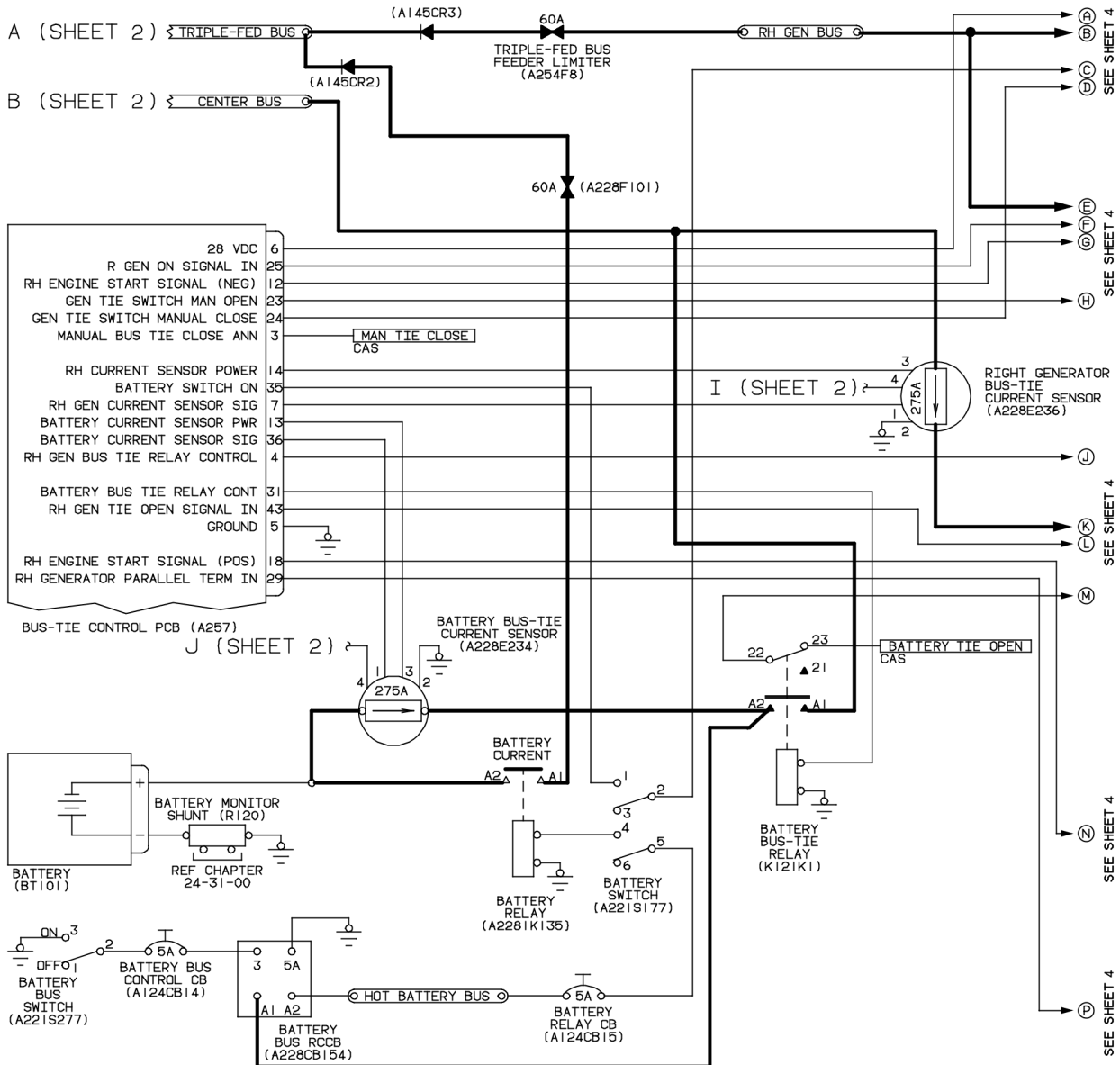


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DC Generation and Control System  
Figure 1 (Sheet 2)

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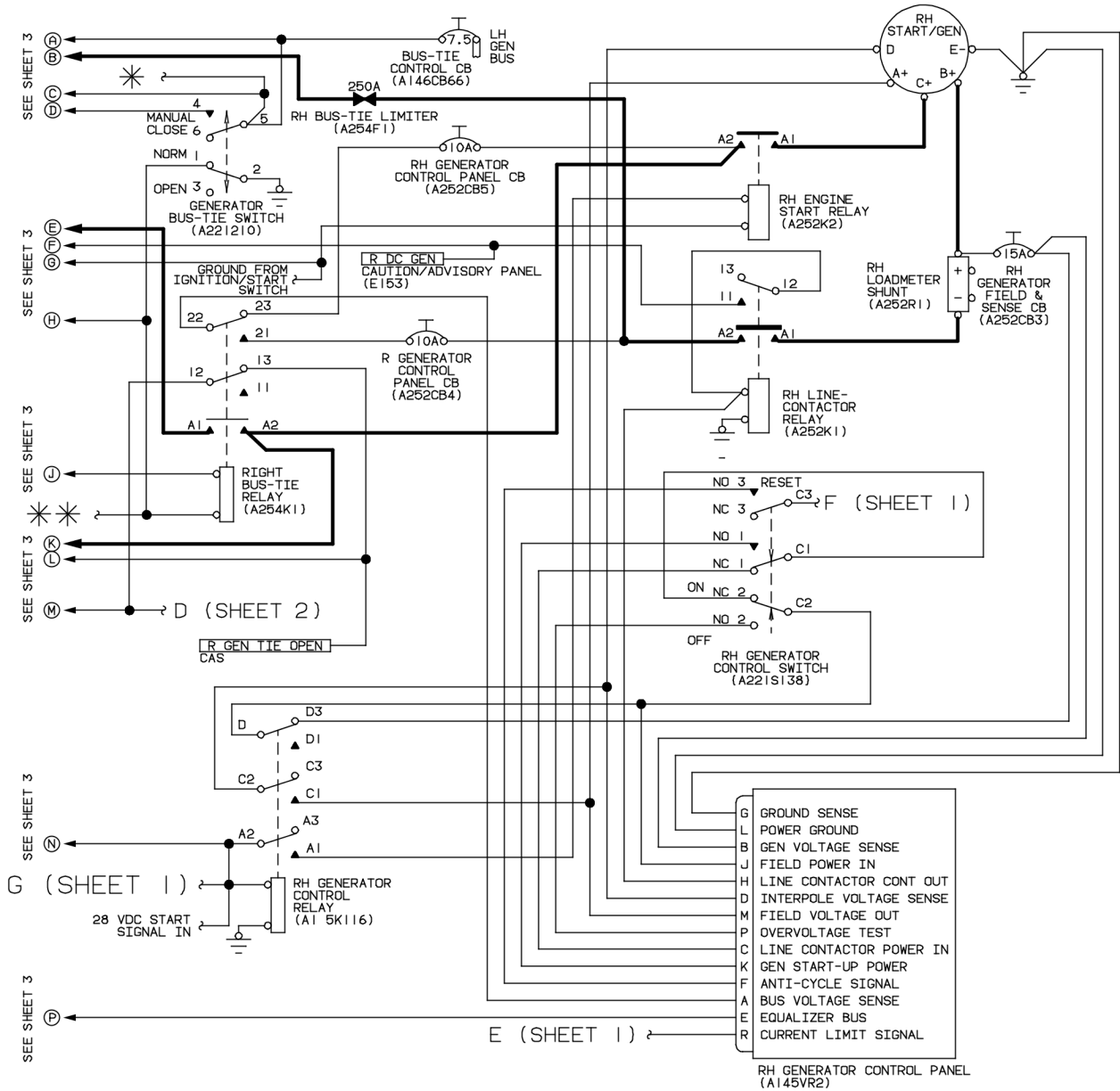


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DC Generation and Control System  
Figure 1 (Sheet 3)

# BEECHCRAFT® SUPER KING AIR MODEL B300/B300C FUSION MAINTENANCE MANUAL

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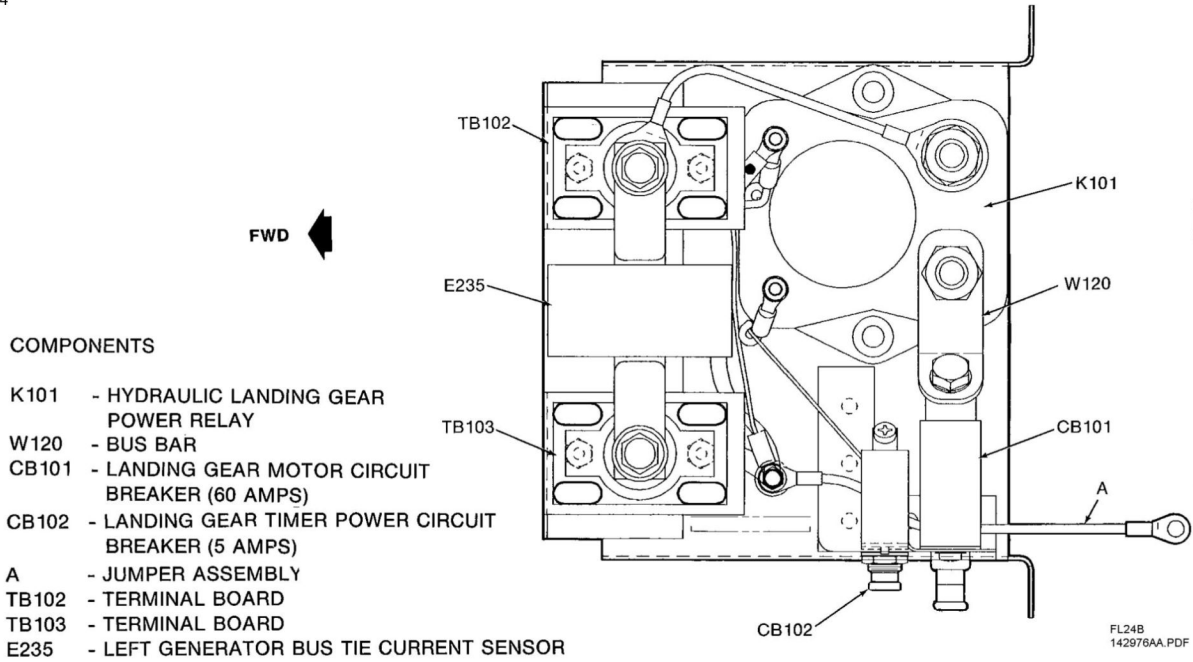


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DC Generation and Control System  
Figure 1 (Sheet 4)

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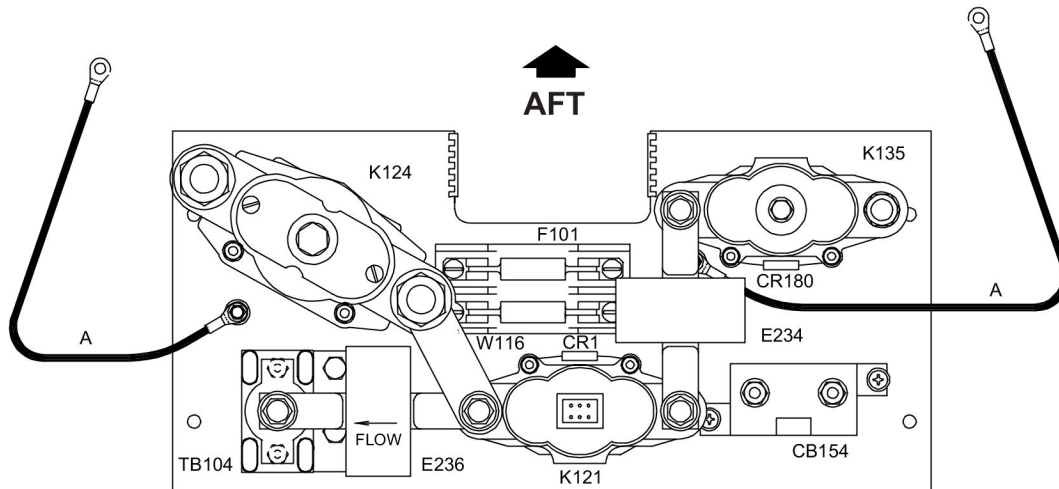
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Leading Edge Electrical Equipment Panel  
 Figure 2 (Sheet 1)

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E24202



COMPONENTS

K121	BATTERY BUS TIE RELAY
CR1	TRANSZORB
K124	EXTERNAL POWER RELAY
K135	BATTERY RELAY
CR180	TRANSZORB
CB154	REMOTE CONTROL CIRCUIT BREAKER
E234	BATTERY BUS TIE CURRENT SENSOR ASSEMBLY
E236	GENERATOR BUS TIE CURRENT SENSOR ASSEMBLY
F101	FUSE AND SPARE
TB104	TERMINAL BOARD
W116	BUS BAR
A	JUMPER ASSEMBLY

Battery Power and Distribution Equipment Panel  
 Figure 3 (Sheet 1)



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**STARTER/GENERATOR - REMOVAL/INSTALLATION**

**1. Information**

Refer to Standard Practices - Airframe Chapter 20-14-00, 201, for information on tools and equipment referenced in Table 401. Refer to Standard Practices - Airframe Chapter 20-15-00, 201, for information on recommended materials referenced in Table 401.

Table 401. Tools/Equipment and Recommended Materials

ITEM	TOOLS AND EQUIPMENT	ITEM	RECOMMENDED MATERIALS
		02-035	Dry Film Lubricant
		02-036	Dry Film Lubricant (Heat Cured)
		09-044	Lockwire

**2. Starter/Generator**

**NOTE:** Removal of the starter/generator may require additional inspections per the engine manufacturers unscheduled inspections. The inspections should be complied with prior to returning the airplane to service.

A. Removal

- (1) Perform the UPPER AFT COWLING REMOVAL procedure (Ref. 71-10-05, 401).
- (2) Make sure that the BAT switch is set to the OFF position and tag the switch with a caution tag indicating "DO NOT APPLY POWER".
- (3) Perform the BATTERY POWER DISCONNECT procedure (Ref. 24-30-01, 201) and tag the connector with a caution tag "DO NOT RECONNECT".
- (4) On 300 ampere starter/generators, remove the cover screws (11) and terminal block cover (10) to access the terminal lugs (Ref. Figure 401).
- (5) On 325 ampere starter/generators, pull the terminal block cover boot (10) back to expose the terminal block (Ref. Figure 402).
- (6) On 325 ampere starter/generators, disconnect the generator control electrical connector (19). Install a protective cover on the wire harness connector.
- (7) Tag the wires on the wiring harness. Remove the nuts and washers (13) and (14) and remove the wires from the starter/generator (9) (Ref. Figure 401 and Figure 402).
- (8) Loosen the adapter clamp (15) at the aft end of the starter/generator (9) and remove the cooling cap adapter (1) from the unit.
- (9) Pull the cooling adapter (16) down from the unit enough to prevent interference during removal of the starter/generator (9).

**CAUTION:** It is mandatory that the starter/generator be fully supported from the time the quick-disconnect clamp is loosened until the unit is removed from the engine. The starter/generator must never be allowed to support its own weight through the splined shaft engagement, as damage to the shaft shear section will result.

- (10) Loosen the T-bolt (7) on the quick-disconnect clamp (2) which attaches the starter/generator (9) to the QAD flange (5).
- (11) Open the quick-disconnect clamp (2) and remove the starter/generator (9) from the QAD flange (5).
- (12) Remove and discard the packing (8) from the splined drive shaft.
- (13) Perform the STARTER/GENERATOR GROUND BRACKET CLEANING procedure (Ref. 24-30-03, 701).

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- (14) Inspect QAD flange (5) for the following.
  - (a) Missing or damaged guide pins.
  - (b) Damaged mating surfaces including outlet flange.
  - (c) If there is possible damage to the part, do a liquid penetrant inspection. Use ASTM-E-1417-95, Method A or B, Sensitivity level 2 or higher. Refer to MIL-STD-1907, Table II, Grade C for inspection limits.

**B. Installation**

- (1) Place a new gasket (6) and the QAD flange (5) onto the mounting pad and install the four washers (4) and nuts (3). Torque the four nuts (3) from 180 to 200 inch-pounds (Ref. Figure 401 and Figure 402).
- (2) Install a new packing (8) on the starter/generator splined drive shaft. Apply a small amount of engine oil to the packing.

**CAUTION:** It is mandatory that the starter/generator be fully supported from the time the unit is placed in position, until the clamp is installed and properly torqued. The starter/generator must never be allowed to support its own weight through the splined shaft engagement, or damage to the shaft shear section will result. Never bang the starter generator against the accessory case as damage to the carbon seal in the accessory section may occur.

- (3) Align the four mating pins on the starter/generator (9) with the QAD flange (5) and install the quick-disconnect clamp (2) over the mating flanges of the QAD flange and the starter/generator. Using an inspection mirror, make sure that the clamp groove fully captures both mating flanges to provide a secure mount.

**NOTE:** Apply dry film lubricant (02-035, Table 401) or (02-036, Table 401) to the threads of the T-bolt (7) before tightening the T-bolt retaining nut.

- (4) When the unit is correctly positioned, use a soft-headed hammer to tap around the circumference of the quick-disconnect clamp (2). Tighten the T-bolt (7) to 32 inch-pounds, then tap around the circumference of the quick-disconnect clamp (2) again. The clamp should now be evenly seated around both flanges.
- (5) While the quick-disconnect clamp (2) is correctly positioned, torque the T-bolt (7) retaining nut to a final torque of 50 inch-pounds.
- (6) Slide the adapter clamp (15) onto the starter/generator (9) and position the cooling adapter (16) on the lower end of the starter/generator (9).
- (7) Place the cooling cap adapter (1) over the starter/generator (9) and align with the cooling adapter (16).
- (8) Adjust the cooling cap adapter (1) until the alignment provides a good seal, then position and tighten the adapter clamp (15) to 25 inch-pounds. Make sure that the ductwork is properly aligned and secure.

**CAUTION:** The self-locking nuts securing the airplane wiring to the starter/generator must be tightened to the proper torque or damage to the starter/generator or attaching hardware may occur.

- (9) Connect the wires to the starter/generator terminal lugs as tagged during removal or per the King Air B300 Wiring Diagram Manual. Install the terminal nuts (13) and washers (14) on the terminal lugs.
- (10) On 300 ampere starter/generators, torque the terminal nuts from 220 to 235 inch-pounds. Torque any #10-32 terminal nuts from 20 to 25 inch-pounds.
- (11) On 325 ampere starter/generators, torque the nut on the B+ terminal from 195 to 205 inch-pounds. Torque the nut on the E- terminal from 175 to 185 inch-pounds.
- (12) On 300 ampere starter/generators, install the terminal block cover (10) on the starter/generator (9) with the two screws (11).



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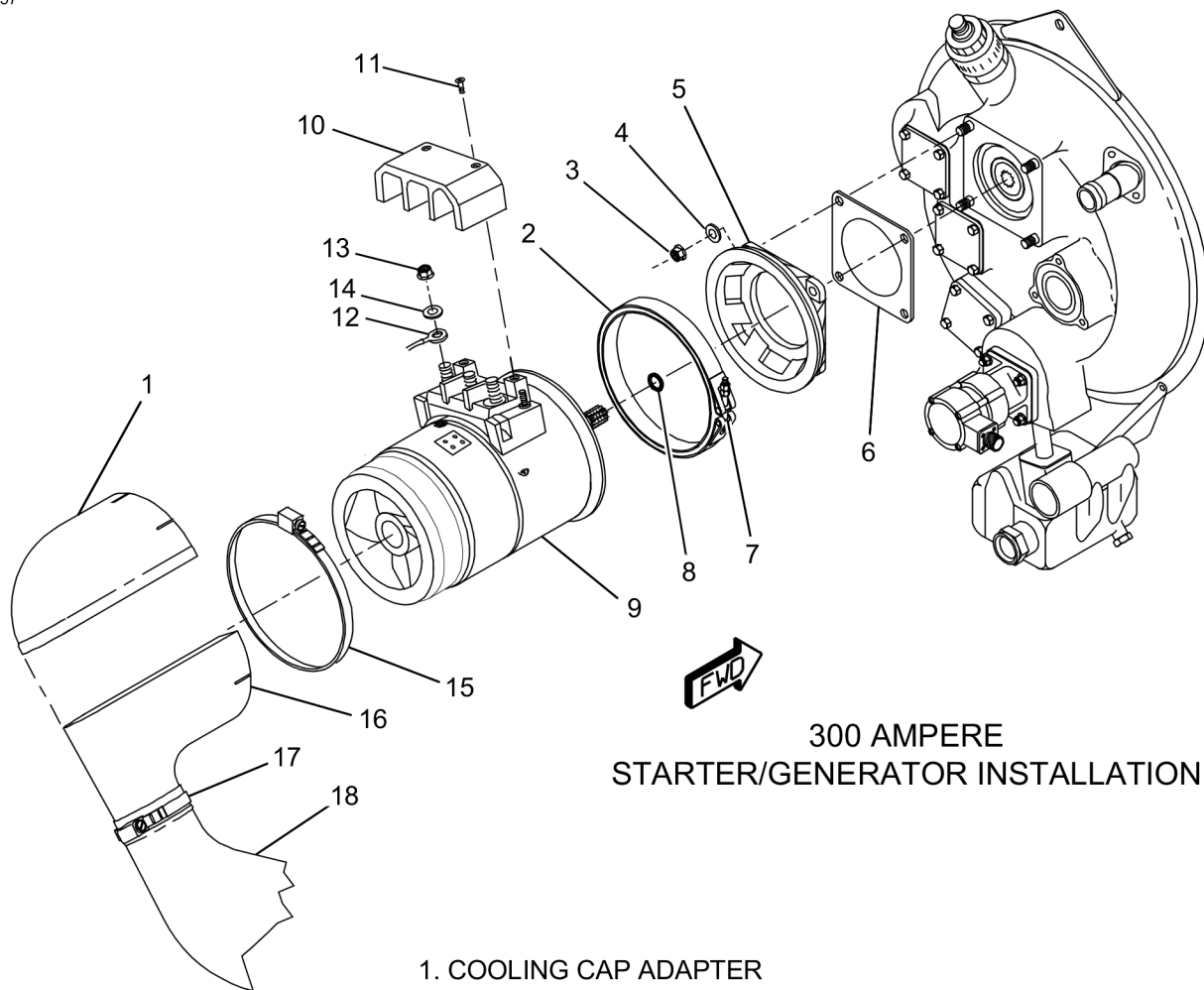
- (13) On 325 ampere starter/generators, position the terminal block cover boot (10) over the terminal block.
- (14) On 325 ampere starter/generators, remove the protective cover from the generator control wire harness connector. Connect the generator control wire harness connector to the mating connector on the starter/generator (Ref. Figure 402).
- (15) Perform the BATTERY POWER CONNECT procedure (Ref. 24-30-01, 201) and remove the caution tags.
- (16) Start the engine using procedures outlined in Section IV of the King Air B300 Pilot's Operating Handbook.
- (17) Run the engine at idle speed for at least two minutes. Shut the engine down using procedures outlined in Section IV of the King Air B300 Pilot's Operating Handbook, and re-torque the quick-disconnect clamp (2), T-bolt (7) to 50 inch-pounds.

**NOTE:** If the torque has fallen below 25 inch-pounds, loosen the quick-disconnect clamp (2), check the starter/generator (9) for proper alignment, then follow steps (2) thru (4) and (12) thru (14) again to make sure of the proper installation of the unit.

- (18) Lock the T-bolt (7) with lockwire (09-044, Table 201), after the torque has been confirmed.
- (19) Perform the UPPER AFT COWLING INSTALLATION procedure (Ref. 71-10-05, 401).

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**300 AMPERE  
 STARTER/GENERATOR INSTALLATION**

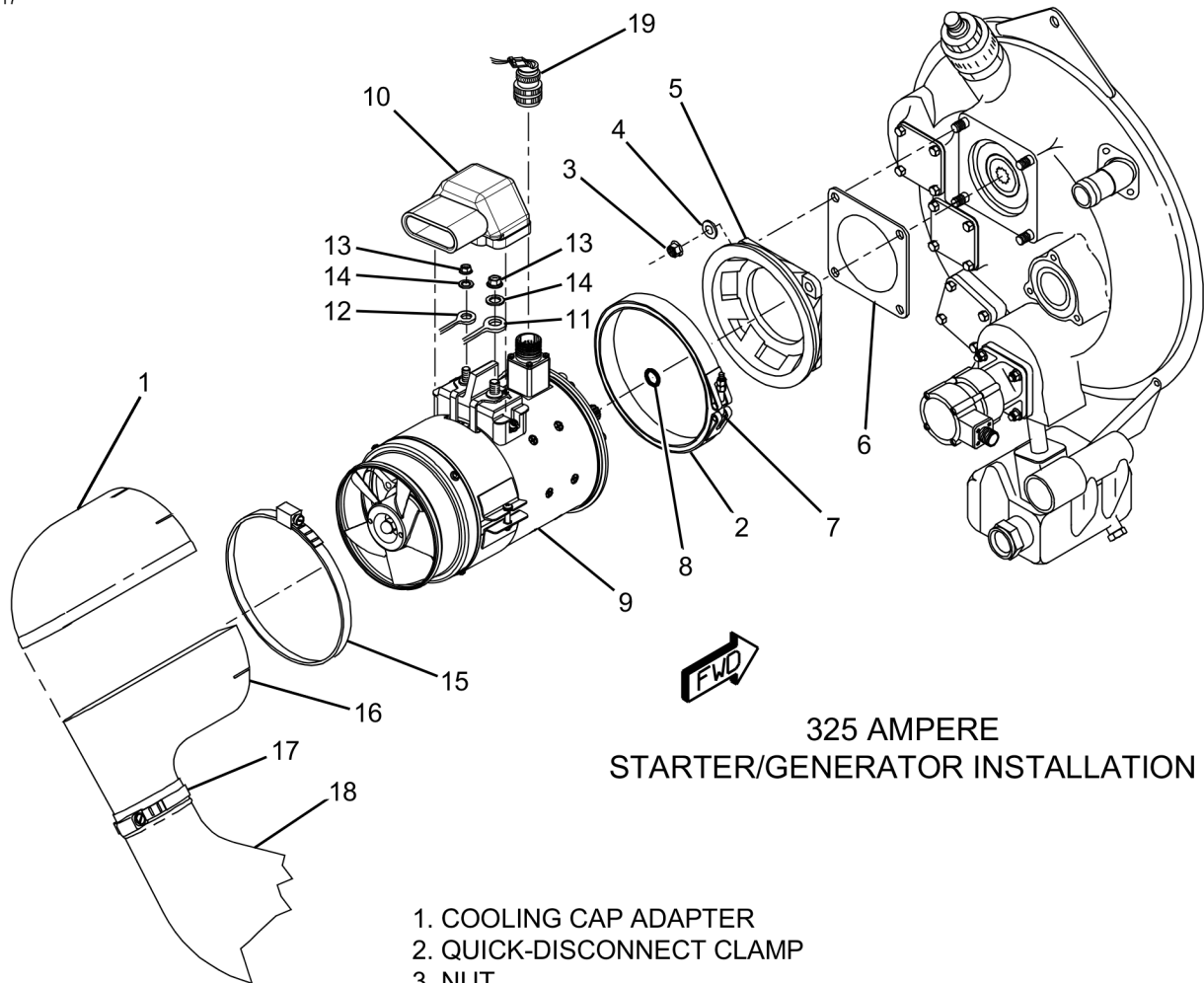
1. COOLING CAP ADAPTER
2. QUICK-DISCONNECT CLAMP
3. NUT
4. WASHER
5. QUICK-DISCONNECT MOUNTING ADAPTER
6. GASKET
7. T-BOLT
8. PACKING
9. STARTER/GENERATOR (300 AMPERE)
10. TERMINAL BLOCK COVER
11. SCREW
12. WIRING HARNESS
13. NUT
14. WASHER
15. ADAPTER CLAMP
16. COOLING ADAPTER
17. CLAMP
18. COOLING HOSE

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300 Ampere Starter/Generator Installation  
 Figure 401 (Sheet 1)

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**325 AMPERE  
STARTER/GENERATOR INSTALLATION**

1. COOLING CAP ADAPTER
2. QUICK-DISCONNECT CLAMP
3. NUT
4. WASHER
5. QUICK ATTACH/DETACH (QAD) FLANGE
6. GASKET
7. T-BOLT
8. PACKING
9. STARTER/GENERATOR (325 AMPERE)
10. TERMINAL BLOCK COVER
11. B+ TERMINAL
12. E- TERMINAL
13. NUT
14. WASHER
15. ADAPTER CLAMP
16. COOLING ADAPTER
17. CLAMP
18. COOLING HOSE
19. GENERATOR CONTROL ELECTRICAL CONNECTOR

325 Ampere Starter/Generator Installation  
Figure 402 (Sheet 1)

1

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**DC GENERATION AND CONTROL SYSTEM - DESCRIPTION AND OPERATION**  
(FL-1300, FL-1307 and After; FM-110 and After)

**1. Description**

The DC generation and control system consists of two 325 ampere DC starter/generators, the battery, two digital generator control units, two line-contactor relays, three bus-tie relays, two generator control relays, two generator control switches, a bus-tie control switch, bus-sense switch and the bus-tie control PCB. The system also includes load and voltage indication for all three power sources and five Crew Alerting System (CAS) messages that indicate the status of the system.

**A. DC Starter/Generators**

The starter/generators are dual-purpose, 325 ampere units which produce torque for engine starts or generate electrical current to meet the electrical loads of the airplane. A quick-disconnect mounting adapter is bolted to a mounting pad on the engine accessory gearbox, providing the starter/generator with a pin-aligned mount. The unit mates with the engine gearbox by means of a splined drive shaft, providing a direct torque transfer for both generator and starter functions. Should a condition occur causing excessive torque at the starter/generator splined drive-shaft, the shaft will shear, minimizing damage to the starter/generator and engine components. An internal shaft-driven fan draws outside air through the starter/generator to provide ground cooling.

The 325 ampere starter/generator uses shunt windings for both starter and generator operation. Refer to Chapter 80-00-00, 001 for general information on starter operation. The starter/generator interpole and compensating windings are in series with the armature and provide a voltage proportional to starter/generator output current.

**B. Digital Generator Control Units (DGCU)**

The digital generator control units (DGCUs) are self contained digital units mounted on the Main Power Distribution Panel (A145). Each starter/generator has its own DGCU to provide line-contactor relay control, voltage regulation, generator paralleling, differential voltage sensing and control, reverse current sensing and control, overvoltage and overexcitation protection and cross-start current limiting. The DGCUs have no voltage adjustment screws, as voltage settings, current limiting and starter cutoff are made through programming straps. The programming straps can be also be used for enabling soft-start controls and delayed-generate mode.

The DGCU regulates voltage with respect to airframe ground instead of the negative ground terminal of the starter/generator. This eliminates any potential errors in voltage regulation due to losses in the negative feeder circuit. The DGCUs monitor starter/generator output voltage and controls the shunt field excitation to maintain a constant voltage under varying operating conditions such as speed, load and temperature.

**(1) Overvoltage Protection**

If a fault occurs where starter/generator output or bus voltage is supplied to the generator field of the starter/generator, or should the voltage regulation circuit fail, the affected starter/generator will attempt to assume the full load as its input voltage increases. If bus voltage increases above  $28.25 \pm 0.25$  VDC, reverse current will begin to flow to the regulated starter/generator and the line-contactor relay will be opened, isolating the regulated starter/generator from the buses. If the affected starter/generator output voltage rises above 35.0 VDC, it will be removed from the bus and the unaffected starter/generator will automatically be reconnected. The resultant voltage depends upon starter/generator speed, electrical load and the nature of the fault.

The DGCUs monitor starter/generator output voltage for excessive voltage. If the starter/generator output exceeds 35.0 VDC, logic de-energizes the generator and the line contactor. Two hardware paths exist through which the line contactor can be de-energized. The digital generator control unit is equipped with an independent analog based overvoltage function, which de-energizes the generator and start contactors if the generator voltage exceeds 35.0 VDC. Until the analog protection activates, a voltage limiter function maintains the generator output below 42.0 VDC to prevent transient current on the bus until the line contactor can open.

**(2) Cross-Start Overload Current Limiting**

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When either start switch on the pilot's outboard subpanel is placed in the START position, a signal is applied to the opposite DGCU, enabling its current limiting circuit. The DGCU will then limit the generator output to 150% of the starter/generator rating regardless of output voltage until the signal is removed.

C. Generator Control Relay

The generator control relays are located on the Main Power Distribution Panel (A145) with the DGCUs. Each relay utilizes three sets of contacts and is energized when the respective ignition/start switch is placed in the START position. One set of contacts supplies starter/generator output to the DGCU, allowing the control unit to sense any overvoltage that may be present when the relay is de-energized. When the generator control relay is energized, the same set of contacts opens and inhibits any generator output during starter operation. The two remaining sets are closed only when the relay is energized. One set provides 28 VDC to energize the engine start relay and the other set shorts the shunt field of the starter/generator during engine starts, preventing transients from entering the DGCU.

D. Bus-Tie Control PCB

The bus-tie control PCB monitors the current sensor signals and other inputs to provide control of the bus-tie relays. When the current sensors are not sensing an overcurrent and at least one line-contactor relay is closed, the bus-tie control PCB will close the generator bus-tie relays, powering the center, battery and opposite generator bus with generator power. Whenever reverse current of 275 amperes or greater flows through one of the current sensors, the affected current sensor will signal the bus-tie control PCB to open the applicable generator bus-tie relay, thereby isolating the overcurrent to that bus. The bus-tie control PCB will close the battery bus-tie relay anytime the battery switch is placed in the ON position and no overcurrent exists. Battery power is then connected to the battery bus, center bus and triple-fed bus. Refer to Chapter 24-60-00, 001 for more information on current sensor function.

(1) **Generator Bus-Tie and Bus-Sense Switches**

The generator bus-tie switch, located on the pilot's outboard subpanel, has several functions implemented through three switch positions. The MAN CLOSED position manually closes the generator bus-tie relays through the bus-tie control PCB which also illuminates the cyan Man Ties Close (CAS) message. The NORM position allows the bus-tie PCB to analyze bus voltages and automatically close the generator bus-tie relays when no fault exists.

The bus-sense switch, adjacent to the bus-tie control switch, simulates an overcurrent condition by applying voltage to all three current sensors anytime it is placed in the TEST position. The switch must be moved to RESET anytime the bus-tie relays have been opened by an overcurrent or test. The switch does not influence the system when in the NORM position. Refer to Chapter 24-60-00, 001 for detailed information on operation of the MAN TIES and BUS SENSE switches.

(2) **Bus-Tie Relays**

There are three bus-tie relays used to connect the three DC power sources to the main buses. They consist of the battery, left generator and right generator bus-ties. The generator bus-tie relays are located on their respective inboard nacelle Aft Power Distribution Panel (A253 left, A254 right) and the battery bus-tie relay is located on the Battery Power Distribution Panel (A228). Each generator bus-tie relay has two sets of auxiliary contacts. The first set allows the DGCU to sense center bus voltage when the contacts are open and to sense generator bus voltage when they are closed. The second set provides 28 VDC to illuminate the respective yellow L Gen Tie Open or R Gen Tie Open (CAS) caution messages when the bus-tie relay is open. The battery bus-tie relay uses only one set of auxiliary contacts which provides 28 VDC to illuminate the yellow Battery Tie Open (CAS) caution message when the bus-tie is open.

The bus-tie control PCB also provides an interconnect for the DGCUs during starter/generator parallel operation. The bus-tie control PCB uses an internal relay to connect the paralleling channels when the line-contactor and bus-tie relays are closed. This feature makes sure that load-sharing is possible only when both starter/generators are on-line with their bus-tie relays closed.

E. Leading Edge Electrical Equipment Panel (A227)

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The leading edge electrical equipment panel is located at zone 511, approximately 24 inches from the left side of the fuselage, inboard of the left nacelle, inside the leading edge.

F. Battery Power and Distribution Equipment Panel (A228)

The battery power and distribution equipment panel is located at zone 611, on the right wing, inboard of the nacelle, forward of the battery box and under the leading edge.





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**AC ELECTRICAL LOAD DISTRIBUTION - MAINTENANCE PRACTICES**

**1. Electrical Load**

**A. Utilization Tables**

The tables that follow give information pertaining to the capacity of the generator for supplying the electrical load on the airplane while maintaining a full charge on the battery. To determine the total electrical load of the airplane, add the continuous electrical load for standard equipment to the load of the optional equipment installed in the airplane (accessories and radio). Since the airplane is equipped with two 30 volt, 250 ampere starter-generators, the total load shall not exceed 90% (450 amperes) of the total generating capacity. When an item of equipment functions at various times in different systems, the load per unit value listed in the table represents the highest value required to operate that particular unit in the various systems in which it functions.

The following load analysis is typical for Super King Air B300 Fusion series airplanes, but may not include equipment installed on individual airplanes. The equipment in this load analysis is subdivided into the following parts:

- Continuous Load - Electrical Equipment (Ref. Table 201).
- Intermittent Load - Electrical Equipment (Ref. Table 202).

Notes:

**NOTE:** All of the following notes apply to both Table 201 and Table 202.

- A. All Fusion airplanes.
- B. All FL Fusion airplanes.
- C. All FM Fusion airplanes.
- D. FL-954, FL-1010, FL-1031 thru FL-1039; FM-66 thru FM-75.
- E. FL-1040 and On; FM-76 and On.
- F. FL-954, FL-1010, FL-1031 thru FL-1200, FL-1202 thru FL-1233; FM-66 thru FM-97.
- G. FL-1201, FL-1234 and On; FM-98 and On.
- H. FL-954, FL-1010, FL-1031 thru FL-1200, FL-1202 thru FL-1233.
- I. FL-1201, FL-1234 and On.
- J. FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306; FM-66 thru FM-109.
- K. FL-1300, FL-1307 and On; FM-110 and On.
- L. FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306.
- M. FL-1300, FL-1307 and On.
- N. FM-66 thru FM-109.
- O. FM-110 and On.
- 1. The ATG-5000 WiFi system (ATG and ACM circuit breakers) and the Swift Broadband WiFi system (SBU circuit breaker) are not both used at the same time. The ATG-5000 system has the larger of the two optional loads, therefore should be used when calculating load totals.
- 2. Loads are included on the center bus total only.
- 3. Used only on ground.
- 4. Loads are active only when warning or caution messages are posted.
- 5. Operates only when landing gear is down.
- 6. Limit transmissions to three minutes total when operating on battery only.
- 7. Relays are energized when avionics master switch is OFF.
- 8. Energized by momentary switch.
- 9. Starting loads. Only one engine is started at a time.
- 10. Load is included in deice total.
- 11. Loads normally used during take-off and landing only, although flap positions may also be changed just prior to takeoff and just after landing.
- 12. Used only when engine-driven boost pump fails.
- 13. Used five minutes before take-off or landing.
- 14. Only one transmitter is considered in operation at a time.
- 15. Load included in air conditioning total only.

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16. Battery capacity available is assumed to be 75% of nameplate rating (amp-hours at one hour rate) to compensate for state of charge of battery and loss of capacity due to aging. Fully charged battery current is presumed to be 11% of nameplate rating.
17. Except for loads as specified by notes 20 and 21, loads on battery are adjusted for lower voltages as follows: lights at 0.87 of rating, DC converter at 1.40 times normal loads, and all other loads at 0.80 of rating.
18. Loads stop operating 10 minutes after landing gears are raised.
19. Non-essential loads which may be shed as needed, in order to observe operating limitations.
20. Emergency load at 22 volts DC.
21. Emergency load at 20.5 volts DC.
22. Battery capacity available is assumed to be 70% of capacity to compensate for loss of capacity due to aging, and de-rated by 15% due to cold temperatures. The 70% capacity is estimated by the ratio between typical discharge curves and minimum acceptable discharge curves in the battery capacity check as shown in the vendor maintenance manual. Fully charged battery current is presumed to be 11% of nameplate rating. Internal heater draws 3.25 amps.
23. Supplies power to the AHC 1 Secondary power input (0.70 A).
24. Supplies power to the AHC 2 Secondary power input (0.70 A).
25. Supplies power to the following 5V loads: FGP Lts (2.60 A), Pilot Audio Control Panel Lts (1.50 A) and Reversionary Switch Panel Lts (2.1 A). Based on a 75% efficiency for the power supply, the total input load is 1.48 A.
26. Supplies power to the following 5V loads: Radio Call Panel Lts (0.23 A), and Copilot Audio Control Panel Lts (1.50 A). Based on a 75% efficiency for the power supply, the total input load is 0.41 A.
27. Supplies power to the following 5V loads: CCP 1 Lts (0.05 A) and CCP 2 Lts (0.05). Based on a 75% efficiency for the power supply, the total input load is 0.03 A.
28. Battery capacity at one hour rate is estimated from typical discharge duration curves as shown in the vendor maintenance manual.
29. Used only after aircraft shutdown in order to cool electric heat heating element. Blower operates at low speed.
30. Used only during Manual Heat or Manual Cool modes of operation.
31. The Universal Graphical Weather system (COM 3 & CMU) and XM Satellite Graphical system (XM WX) cannot be used at the same time. The Universal Graphical Weather system has the larger load of the two optional loads, therefore its load is utilized for calculating load totals.
32. VHF transmitter load current draw based on cold transmitter and 22 volt bus voltage from battery.
33. Wireless transmitter is only active on the ground. Unit stays powered during flight.
34. Load is connected to Battery Bus and Left Generator Bus.
35. Load is connected to Battery Bus and Right Generator Bus.
36. Window shades are powered full clear for 5 minutes from the battery bus when left generator CB power is lost. After the 5 minute time period has expired, the escape hatch power supplies will power the escape hatch windows full clear for an additional 45 minutes.
37. Radiant heat panel does not operate when air conditioning is operating.

Table 201. Continuous Load - Electrical Equipment

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
<b>Air Conditioning System (21)</b>				
FWD CABIN BLOWER CB			16.50	J
Forward Cabin Blower Motor	1	16.50	16.50	J
AFT CABIN BLOWER CB			16.50	J
Aft Cabin Blower Motor	1	16.50	16.50	J

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Table 201. Continuous Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
CABIN BLOWER CB			33.00	K
Cabin Blower	1	33.00	33.00	K
COCKPIT BLOWER CB			9.59	J
			15.09	K
Cockpit Blower Motor	1	9.50	9.50	J
Cockpit Blower Motor	1	15.00	15.00	K
Cockpit Blower Relay	1	0.09	0.09	J
AC CLUTCH CB			5.26	J
Air Conditioner Clutch	1	3.80	3.80	J, 15
N1 Speed Module Assembly	1	0.03	0.03	J
Electric Heat Circuit Card Assembly	1	0.05	0.05	J, 3
Electric Heat Relay	1	0.60	0.60	J, 3
Electric Heat Relay	1	0.60	0.60	J, 3
Cargo Door Radiant Heat Relay	1	0.09	0.09	N
Cargo Door Radiant Heat Lockout Relay	1	0.09	0.09	N, 15
COMPRESSOR CB			185.00 (Hi Power)	K
			85.00 (Low Power)	
Compressor	1	185.00 (Hi Power)	185.00 (Hi Power)	K
		85.00 (Low Power)	85.00 (Low Power)	
AC CONTROL CB			1.20	K
Electric Heat Relay		0.60	0.60	K
Electric Heat Relay		0.60	0.60	K
Cargo Door Radiant Heat Relay		0.09	0.09	O
Cargo Door Radiant Heat Lockout Relay		0.09	0.09	O
CONDENSER BLOWER CB			30.00	J
			42.00 (Hi Power)	K
			15.00 (Low Power)	
Condenser Blower Motor	1	30.00	30.00	J, 15

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Table 201. Continuous Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
Condenser Blower Motor	1	42.00 (Hi Power)	42.00 (Hi Power)	K, 15
		15.00 (Low Power)	15.00 (Low Power)	
ELECTRIC HEAT CB			150.00	J
			160.00	K
Electric Heater	1	150.00	150.00	J, 3
Electric Heater	1	160.00	160.00	K, 3
ELECTRIC HEAT SW & FAN CB			3.00	K
Electric Heat Temp Switch and Fan Power	1	3.00	3.00	K, 3
TEMP CONTROL CB			0.95	J
			2.22	K
Cabin Temperature Control Unit	1	0.50	0.50	J
Cabin Air Temperature Indicator	1	0.33	0.33	J
Cockpit Temp Sensor Fan	1	0.06	0.06	J
Cabin Temp Sensor Fan	1	0.06	0.06	J
ECS Controller	1	2.00	2.00	K
Cabin Zone Temp Sensor	1	0.10	0.10	K
Cockpit Zone Temp Sensor	1	0.10	0.10	K
Cockpit Blower Potentiometer	1	0.01	0.01	K
Cabin Blower Potentiometer	1	0.01	0.01	K
COCKPIT TMV CB			0.30	K
Cockpit TMV	1	0.30	0.30	K
CABIN TMV CB			0.30	K
Cabin TMV	1	0.30	0.30	K
PRESS CONTROL CB	1	2.62	2.62	B
	1	2.00	2.00	C
Cabin Pressure Preset Solenoid Valve	1	0.62	0.62	F

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Table 201. Continuous Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
Door Seal Solenoid Valve	1	0.62	0.62	B
Cabin Pressure Safety Valve	1	0.62	0.62	F
Cabin Pressurization Controller	1	2.00	2.00	G
CABIN ALT IND CB			0.40	G
ARINC 429 Circuit Card Assembly	1	0.20	0.20	G
Cabin Altitude Circuit Card Assembly	1	0.20	0.20	G
RADIANT HEAT CB			6.79	C
Cargo Door Radiant Heat Panel	1	6.79	6.79	C, 37
OUTLET CONTROL CB			0.40, 0.48 or 0.56	B
L Fwd Club AC Controller	1	0.08	0.08	B, 19
L Aft Club AC Controller	1	0.08	0.08	B, 19
R Fwd Club AC Controller	1	0.08	0.08	B, 19
R Aft Club AC Controller	1	0.08	0.08	B, 19
Cockpit AC Controller	1	0.08	0.08	B, 19
Fwd Cabinet AC Controller (OPTIONAL)	1	0.08	0.08	B, 19
Aft Cabinet AC Controller (OPTIONAL)	1	0.08	0.08	B, 19
<b>Auto Flight System (22)</b>				
PITCH TRIM CB			0.75	A
Trim Servo Power	1	0.75	0.75	A
FGS 1 CB			0.76	A
FGP - FGS A Power	1	0.36	0.36	A
Rudder Boost Transducer, Left	1	0.20	0.20	A

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Table 201. Continuous Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
Rudder Boost Transducer, Right	1	0.20	0.20	A
FGS 2 CB			0.36	A
FGP - FGS B Power	1	0.36	0.36	A
ATA MOTOR PWR CB			1.70	K
Auto Throttle Assembly (ATA)	1	1.70	1.70	K
<b>Communications System (23)</b>				
TEL TRANSCEIVER CB (OPTIONAL)			6.00	H
Aircell Telephone Transceiver	1	6.00	6.00	H, 19
SBU CB (OPTIONAL)			3.79	B
Swift Broadband Unit	1	3.79	3.79	B, 1,19
ACM CB (OPTIONAL)			0.64	B
Aircell ACM	1	0.64	0.64	B, 1, 19
ATG CB (OPTIONAL)			5.36	H
ATG-5000 WiFi	1	5.36	5.36	H, 1, 19
CTR CB			4.00	H
Aircell Telephone Router	1	4.00	4.00	H, 19
WIFI RT CB (OPTIONAL)			5.60	I
Avance L3 WiFi	1	5.60	5.60	I, 19
Avance SCS WiFi	1	2.43	2.43	I, 19
HF ANT CB (OPTIONAL)			2.16	A
HF Antenna Coupler	1	2.10	2.10	A
HF Sidetone Relay	1	0.06	0.06	A
HF COM CB (OPTIONAL)			14.20	A
HF Radio (Receive)	1	14.20	14.20	A
COM 2 CB			0.58	A
No. 2 VHF Com (Receive)	1	0.58	0.58	A
AUDIO 2 CB			1.00	A
Copilot Audio Amplifier	1	1.00	1.00	A
AUDIO 2 CONTROL CB			0.30	A

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Table 201. Continuous Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
Copilot Audio Control Panel	1	0.30	0.30	A
COM 3 CB (OPTIONAL)			0.58	A
No. 3 VHF Com (Receive)	1	0.58	0.58	A
AUDIO 1 CONTROL CB			0.30	A
Pilot Audio Control Panel	1	0.30	0.30	A
AUDIO 1 CB			1.00	A
Pilot Audio Amplifier	1	1.00	1.00	A
CABIN AUDIO CB			0.10	A
Cabin Audio	1	0.10	0.10	A
COM 1 CB			0.58	A
No. 1 VHF Com (Receive)	1	0.58	0.58	A, 6, 14, 20
RIU CB			0.49	E
RIU	1	0.49	0.49	E
SELCAL CB (OPTIONAL)			0.25	D
SELCAL Unit	1	0.25	0.25	D
<b>Electrical Power System (24)</b>				
BAT RELAY CB			0.59	A
Battery Relay	1	0.50	0.50	A
Ground Ops Relay	1	0.09	0.09	A, 3
BAT CHG CB			3.80	A
Standby Instr Battery Chg Current	1	0.55	0.55	A
Standby Instr Battery Heater	1	3.25	3.25	A
Main Battery Charge Current	1	4.62	4.62	A, 16
BUS TIE POWER CB			2.20	J
			2.15	K
Control Relays	7	0.04	0.28	A, 2
Left Bus Tie Relay	1	0.60	0.60	A, 2
Right Bus Tie Relay	1	0.60	0.60	A, 2
Battery Bus Tie Relay	1	0.60	0.60	J, 2

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Table 201. Continuous Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
Battery Bus Tie Relay	1	0.55	0.55	K, 2
Battery Bus Tie Current Sensor	1	0.04	0.04	A, 2
Left Generator Bus Tie Current Sensor	1	0.04	0.04	A, 2
Right Generator Bus Tie Current Sensor	1	0.04	0.04	A, 2
INVERTER LIMITER			41.50 or 83.00	B
115 VAC 60 Hz Inverter	1	41.50	41.50	B, 19
230 VAC 60 Hz Inverter (OPTIONAL)	1	41.50	41.50	B, 19
INVERTER CB			20.00	C
60 Hz Inverter	1	20.00	20.00	C, 19
<b>Equipment/Furnishings (25)</b>				
CABINET CB			0.10	B
Vanity Touch Switch	1	0.10	0.10	B, 19
FURNISHING MASTER POWER CB			3.82	A
Furnishings Power Relay	1	0.10	0.10	A, 19
Prepco (Hot Beverage Tank)	1	3.57	3.57	A, 19
Prepco Power Switch	1	0.04	0.04	A, 19
Prepco ON Light	1	0.11	0.11	A, 19
L BAR CB			0.55 or 25.85	C
Refreshment Bar Lights	3	0.17	0.51	C, 19
Refreshment Bar Light Switch	1	0.04	0.04	C, 19
Hot Cup (OPTIONAL)	1	23.30	23.30	C, 19
Hot Cup Control Module (OPTIONAL)	1	2.00	2.00	C, 19
LEFT SEAT HEATER CB (OPTIONAL)			10.80	H
Seat No. 3 Heater	1	2.70	2.70	H, 19



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Table 201. Continuous Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
Seat No. 5 Heater	1	2.70	2.70	H, 19
Seat No. 7 Heater	1	2.70	2.70	H, 19
Seat No. 9 Heater	1	2.70	2.70	H, 19
RIGHT SEAT HEATER CB (OPTIONAL)			10.80	H
Seat No. 4 Heater	1	2.70	2.70	H, 19
Seat No. 6 Heater	1	2.70	2.70	H, 19
Seat No. 8 Heater	1	2.70	2.70	H, 19
Seat No. 10 Heater	1	2.70	2.70	H, 19
AVIONICS CLOCK CB			0.010	A
Avionics Clock	1	0.010	0.010	A
<b>Fire Extinguishing System (26)</b>				
RIGHT ENG FIRE EXT CB			0.01	A
R Eng Fire Ext. Test Module	1	0.01	0.01	A
LEFT ENG FIRE EXT CB			0.01	A
R Eng Fire Ext. Test Module	1	0.01	0.01	A
<b>Flight Control System (27)</b>				
FLAP IND & CONTROL CB			0.15	F
Flap Position Transmitter	1	0.06	0.06	F
Flap Position Indicator	1	0.08	0.08	F
Flight Hour Meter	1	0.01	0.01	A
<b>Fuel System (28)</b>				
LEFT FUEL VENT CB			2.20	A
Left Fuel Vent Heater	1	2.20	2.20	A
RIGHT FUEL VENT CB			2.20	A
Right Fuel Vent Heater	1	2.20	2.20	A
LEFT AUX XFR CB			1.44	A
Auto Fuel Transfer Module Assembly	1	0.01	0.01	A
Left Auxiliary Fuel Transfer Valve	1	1.43	1.43	A
RIGHT AUX XFR CB			1.44	A

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Table 201. Continuous Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
Auto Fuel Transfer Module Assembly	1	0.01	0.01	A
Right Auxiliary Fuel Transfer Valve	1	1.43	1.43	A
RIGHT QTY IND CB			0.03	A
Right Fuel Quantity Indicator	1	0.03	0.03	A
<b>Ice and Rain Protection System (30)</b>				
AUTO PROP DEICE CB			29.50	A
Prop Deice Timer	1	0.10	0.10	A
Prop Deice Boots	4	7.35	29.40	A
PILOT WSHLD ANTI-ICE CONTROL CB			0.78	A
Pilot Windshield Anti-Ice Controller	1	0.08	0.08	A
Pit Wshld Anti-Ice High Control Relay	1	0.35	0.35	A
Pit Wndshld Anti-Ice Low Control Relay	1	0.35	0.35	A
PILOT WSHLD ANTI-ICE POWER CB			42.72	A
Pilot Windshield	1	42.70	42.70	A
Pilot Windshield RCCB	1	0.01	0.01	A
Pilot Windshield RCCB	1	0.01	0.01	A
BRAKE DEICE CB (OPTIONAL)			1.60	A
Brake Deice Solenoid	1	0.80	0.80	A
Brake Deice Solenoid	1	0.80	0.80	A
RIGHT PITOT CB			4.29	A
Right Pitot Heat Element	1	4.29	4.29	A
WINDOW DEFOG CB			0.20	A
Window Defog Valve	1	0.20	0.20	A
R WSHLD ANTI-ICE CB			42.70	A
Copilot Windshield	1	42.70	42.70	A
COPILOT WINDSHIELD ANTI-ICE CB			0.78	A

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Table 201. Continuous Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
Copilot Windshield Anti-Ice Controller	1	0.08	0.08	A
Coplt Wshld Anti-Ice High Control Relay	1	0.35	0.35	A
Coplt Wshld Anti-Ice Low Control Relay	1	0.35	0.35	A
LEFT MAIN ENG ANTI-ICE CB			0.04	A
Left Main Engine Anti-Ice Off Relay	1	0.04	0.04	A
RIGHT MAIN ENG ANTI-ICE CB			0.04	A
Right Main Engine Anti-Ice Off Relay	1	0.04	0.04	A
PROP DEICE CONTROL CB			0.20	A
Left Prop De-Ice Control Relay	1	0.10	0.10	A
Right Prop De-Ice Control Relay	1	0.10	0.10	A
LEFT PITOT CB			4.29	A
Left Pitot Heat Element Assembly	1	4.29	4.29	A
WSHLD WIPER CB			5.20	A
Windshield Wiper Motor	1	5.20	5.20	A
LEFT STBY ENG ANTI-ICE CB			0.04	A
Left Eng Anti-Ice Pwr Off Relay	1	0.04	0.04	A
RIGHT STBY ENG ANTI-ICE CB			0.04	A
RIGHT Eng Anti-Ice Pwr Off Relay	1	0.04	0.04	A
<b>Indicating and Recording System (31)</b>				
AVIONICS ANN CB			1.00	A
Avionics Annunciator	1	1.00	1.00	A
IMS CB			0.70	A
IMS	1	0.70	0.70	A, 33
CAS 1 SEC CB			0.43	A
CAS 1 SEC	1	0.43	0.43	A
CAS 2 SEC CB			0.43	A

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Table 201. Continuous Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
CAS 2 SEC	1	0.43	0.43	A
DCU 1 CB			0.53	A
No. 1 DCU - Primary Power	1	0.53	0.53	A
DCU 2 CB			0.53	A
No. 2 DCU	1	0.53	0.53	A
STALL WARN CB			8.59	A
Stall Warning Sensor Heat Control Relay	1	0.09	0.09	A, 3
Stall Warning Lift Transducer	1	8.50	8.50	A
ANN POWER CB			0.20	A
Annunciator Control Module	1	0.20	0.20	A
CAS 1 CB			0.43	A
CAS 1 Primary	1	0.43	0.43	A, 21
LEFT TORQUEMETER CB			0.02	A
Left Engine Torque Pressure Transmitter	1	0.02	0.02	A
LEFT OIL PRESS CB			0.05	A
Left Oil Pressure Transmitter	1	0.05	0.05	A
LEFT IAPS CB			0.89	A
Left IAPS Power	1	0.89	0.89	A, 21
CVR CB			0.38	A
Cockpit Voice Recorder	1	0.38	0.38	A, 20
AURAL WARN CB			0.20	D
Aural Warning Generator	1	0.20	0.20	D, 17
AURAL WARN CB			0.72	E
RIU	1	0.72	0.72	E
ANN IND CB			0.39	A
Left Prop Pitch Indicator Relay	1	0.04	0.04	A
Right Prop Pitch Indicator Relay	1	0.04	0.04	A

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Table 201. Continuous Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
Left Prop Pitch Proximity Switch	1	0.02	0.02	A
Right Prop Pitch Proximity Switch	1	0.02	0.02	A
Master Warn Relay	1	0.09	0.09	A
Master Caution Relay	1	0.09	0.09	A
Door Unlocked Relay	1	0.09	0.09	A
CAS 2 CB			0.43	A
CAS 2 Primary	1	0.43	0.43	A, 21
STALL WARN CB			2.00	A
Stall Warning Lift Computer	1	2.00	2.00	A
RIGHT TORQUEMETER CB			0.02	A
Right Engine Torque Pressure Transmitter	1	0.02	0.02	A
RIGHT OIL PRESS CB			0.05	A
Right Oil Pressure Transmitter	1	0.05	0.05	A
RIGHT IAPS CB			0.89	A
Right IAPS Power	1	0.89	0.89	A, 21
OUTSIDE AIR TEMP CB			0.30	A
Digital OAT Remote Processor	1	0.29	0.29	A
Digital OAT Indicator	1	0.01	0.01	A
DC CONV 2 CB			0.70	A
No. 2 DC Converter	1	0.70	0.70	A, 17, 24
MKP CB			0.15	A
MKP	1	0.15	0.15	A
DC CONV 1 CB			0.70	A
No. 1 DC Converter	1	0.70	0.70	A, 17, 23
DCU 1 SEC CB			0.43	A
No. 1 DCU - Secondary Power	1	0.43	0.43	A
EDC 1 CB			0.36	A

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Table 201. Continuous Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
No. 1 EDC - Primary Power	1	0.36	0.36	A
LEFT FUEL QTY WARN CB			0.12	A
Left Fuel Warning Sensor	1	0.12	0.12	A
RIGHT FUEL QTY WARN CB			0.12	A
Right Fuel Warning Sensor	1	0.12	0.12	A
DCU 2 SEC CB			0.43	A
No. 2 DCU - Secondary Power	1	0.43	0.43	A
EDC 2 CB			0.36	A
No. 2 EDC	1	0.36	0.36	A
FDR CB (OPTIONAL)			1.43	E
Flight Data Recorder	1	1.43	1.43	E
MFD CB			3.80	E
MFD	1	3.80	3.80	E
CCP 1 CB			0.300	A
Pilot CCP	1	0.300	0.300	A
CCP 2 CB			0.30	E
No. 2 CCP	1	0.30	0.30	E
PFD 1 CB			3.80	A
PFD 1	1	3.80	3.80	A, 3
PFD 2 CB			3.80	E
PFD 2	1	3.80	3.80	E
LEFT QTY IND CB			0.180	A
Left Fuel Quantity Indicator	1	0.030	0.030	A
Fuel Quantity Gauging Select Relay	1	0.150	0.150	A, 8
CMU CB (OPTIONAL)			0.48	D
CMU	1	0.48	0.48	D
<b>Landing Gear System (32)</b>				
LANDING GEAR WARN CB			0.12	A
Hydraulic Fluid Level Sensor	1	0.12	0.12	A

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Table 201. Continuous Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
LANDING GEAR IND CB			0.16	A
Landing Gear Position Lights	1	0.04	0.04	A
Landing Gear Position Lights	1	0.04	0.04	A
Landing Gear Position Lights	1	0.04	0.04	A
Landing Gear Position Lights	1	0.04	0.04	A
LANDING GEAR RELAY CB			1.00	A
Hydr Landing Gear Selector Solenoid	1	1.00	1.00	A
<b>Lighting System (33)</b>				
ENTRY LIGHTS CB			3.40 (FL), 4.30 (FM) or 4.34 (FM)	A
Threshold Lt	1	0.17	0.17	B, 3
Spar Cover Light Fwd	1	0.25	0.25	A, 3
Spar Cover Light Aft	1	0.25	0.25	A, 3
Exterior Entry Lt	1	1.54	1.54	A, 3
Emergency Glareshield Lt	1	0.17	0.17	A
Emergency Glareshield Lt	1	0.17	0.17	A
Emergency Glareshield Lt	1	0.17	0.17	A
Emergency Glareshield Lt	1	0.17	0.17	A
Air Stair Door Step Lts	3	0.17	0.51	B, 3
Air Stair Door Step Lts	4	0.17	0.68	C, 3
Threshold/Cargo Loading Light	1	0.30	0.30	C, 3
Baggage Light	1	0.30	0.30	C, 3, 34
Baggage Light	1	0.30	0.30	C, 3, 34
Refreshment Bar Clock (OPTIONAL)	1	0.04	0.04	C

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Table 201. Continuous Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
PLT FLT & SIDE PNL LTS CB			3.06 (FL) or 3.22 (FM)	J
			2.96 (FL) or 3.12 (FM)	K
Fuel Quantity Indicator Lights	1	0.15	0.15	A
Fuel Quantity Indicator Lights	1	0.15	0.15	A
Pilot Overhead Flood Light Power Supply	1	0.25	0.25	L
Copilot Overhead Flood Light Pwr Supply	1	0.25	0.25	L
Pilot Overhead Flood Light	1	0.30	0.30	C
Pilot Overhead Flood Light	1	0.20	0.20	M
Copilot Overhead Flood	1	0.30	0.30	C
Copilot Overhead Flood	1	0.20	0.20	M
Side Panel Light Dim Control	1	0.04	0.04	A
Pilot Overhead Flood Light Dim Control	1	0.01	0.01	B
Copilot Overhead Flood Lt Dim Control	1	0.01	0.01	B
Pilot Overhead Flood Light Dim Control	1	0.04	0.04	C
Copilot Overhead Flood Lt Dim Control	1	0.04	0.04	C
Electroluminescent Pwr Supply Chan 2	1	2.00	2.00	A
Standby Display Lighting	1	0.03	0.03	A
Pilot Chart Holder	1	0.17	0.17	A
NO SMK, FSB & BAGGAGE LTS CB			0.72 (FL) or 1.56 (FM)	A



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Table 201. Continuous Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
Cabin FSB & No Smoke Sign Lt Vanity	1	0.01	0.01	B
Cabin FSB & No Smoke Sign Lt Vanity	1	0.01	0.01	B
Cabin FSB & No Smoke Sign Lt Aft	1	0.01	0.01	B
Cabin FSB & No Smoke Sign Lt Forward	1	0.01	0.01	B
Cabin FSB & No Smoke Sign Baggage	1	0.01	0.01	B
Cabin FSB & No Smoke Sign Baggage	1	0.01	0.01	B
Cabin FSB & No Smoke Sign Lt Vanity	1	0.10	0.10	C
Cabin FSB & No Smoke Sign Lt Vanity	1	0.10	0.10	C
Cabin FSB & No Smoke Sign Lt Aft	1	0.10	0.10	C
Cabin FSB & No Smoke Sign Lt Aft	1	0.10	0.10	C
Cabin FSB & No Smoke Sign Lt Forward	1	0.10	0.10	C
Cabin FSB & No Smoke Sign Lt Forward	1	0.10	0.10	C
Forward Exit Sign Assembly	1	0.03	0.03	A
Aft Exit Sign Assembly	1	0.03	0.03	A
Vestibule Light	1	0.20	0.20	B, 34
SIDEWALL ACCENT LIGHTS CB			0.94	I
Sidewall Accent Lights	28	0.025	0.70	I, 19
Cupholder Lights	8	0.03	0.24	I, 19
Baggage Light No. 1	1	0.20	0.20	B, 34

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Table 201. Continuous Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
Baggage Light No. 2	1	0.20	0.20	B
Baggage Light	1	0.30	0.30	C, 3, 34
Baggage Light	1	0.30	0.30	C, 3, 34
Baggage Light	1	0.30	0.30	C
PILOT LIGHTS CONTROL CB			1.48	A
Pilot Instr Pnl Lts Pwr Supply	1	1.48	1.48	A, 25
LEFT LANDING LIGHT CB			8.93	J
			1.90	K
Left Landing Light	1	8.93	8.93	J, 13
Left Landing Light	1	1.90	1.90	K, 13
NAV LIGHT CB			4.57	J
			0.40	K
Left Nav Light	1	0.92	0.92	A
Left Nav Light	1	0.92	0.92	J
Left Nav Light	1	0.15	0.15	K
Right Nav Light	1	0.92	0.92	A
Right Nav Light	1	0.92	0.92	J
Right Nav Light	1	0.15	0.15	K
Tail Nav Light	1	0.89	0.89	J
Tail Nav Light	1	0.10	0.10	K
TAIL FLOOD LIGHT CB			5.36	A
Tail Flood Lights	1	2.68	2.68	A
Tail Flood Lights	1	2.68	2.68	A
SUBPNL, OVHD, & CONSOLE LTS CB			3.05	A
Ovhd, Subpanel & Console Lts Dim Cont	1	0.04	0.04	A
Right Outboard Subpanel Lights	1	0.43	0.43	A
Engine Control Edgelit Lights	1	0.07	0.07	A
Rudder Control Edgelit Lights	1	0.05	0.05	A
Left Loadmeter	1	0.05	0.05	A
Right Loadmeter	1	0.05	0.05	A

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Table 201. Continuous Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
Voltmeter	1	0.05	0.05	A
Prop Deice Ammeter	1	0.05	0.05	A
Magnetic Compass Light	2	0.04	0.08	A
Cabin Pressure Control Light	1	0.04	0.04	F
Cabin Pressure Control Light	1	0.04	0.04	F
Electroluminescent Pwr Supply Chan 1	1	2.00	2.00	A
Cockpit Entry Lights Control Switch	1	0.10	0.10	B, 35
COPLT FLT INSTR LIGHTS CB			0.21	A
Copilot Flight Instrument Dim Control	1	0.04	0.04	A
Copilot Chart Holder	1	0.17	0.17	A
READING LIGHTS CB			3.08 (FL), 3.28 (FL), 3.30 (FM) or 3.48 (FL)	A
Reading Light Seat No. 3	1	0.20	0.20	B, 19
Reading Light Seat No. 4	1	0.20	0.20	B, 19
Reading Light Seat No. 5	1	0.20	0.20	B, 19
Reading Light Seat No. 6	1	0.20	0.20	B, 19
Reading Light Seat No. 7	1	0.20	0.20	B, 19
Reading Light Seat No. 8	1	0.20	0.20	B, 19
Reading Light Seat No. 9	1	0.20	0.20	B, 19
Reading Light Seat No. 10	1	0.20	0.20	B, 19
L Fwd Club Table Light	1	0.20	0.20	B, 19
L Aft Club Table Light	1	0.20	0.20	B, 19

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Table 201. Continuous Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
R Fwd Club Table Light	1	0.20	0.20	B, 19, 35
R Aft Club Table Light	1	0.20	0.20	B, 19
Floor Level Accent Lights	6	0.08	0.48	B, 19
Vanity Reading Light	1	0.20	0.20	B, 19
L Baggage Reading Lt (OPTIONAL)	1	0.20	0.20	B, 19
R Baggage Reading Lt (OPTIONAL)	1	0.20	0.20	B, 19
No. 1 Forward Club Reading Light	1	0.30	0.30	C
No. 2 Forward Club Reading Light	1	0.30	0.30	C
No. 3 Forward Club Reading Light	1	0.30	0.30	C
No. 4 Forward Club Reading Light	1	0.30	0.30	C
No. 1 Forward Club Table Light	1	0.30	0.30	C
No. 2 Forward Club Table Light	1	0.30	0.30	C
No. 1 Aft Club Reading Light	1	0.30	0.30	C
No. 2 Aft Club Reading Light	1	0.30	0.30	C
No. 4 Aft Club Reading Light	1	0.30	0.30	C
No. 2 Aft Club Table Light	1	0.30	0.30	C
Aft Club Reading Light	1	0.30	0.30	C
PEDESTAL LIGHTS CONTROL CB			0.03	A
Pedestal Lts Pwr Supply	1	0.03	0.03	A, 27
COPILOT LIGHTS CONTROL CB			0.41	A
Copilot Instr Pnl Lt Pwr Supply	1	0.41	0.41	A, 26

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Table 201. Continuous Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
STROBE LIGHT CB			4.50	J
			1.05	K
Left Wing Strobe Light Power Supplies	1	1.50	1.50	J, 19
Left Wing Strobe Light	1	0.35	0.35	K, 19
Right Wing Strobe Light Power Supplies	1	1.50	1.50	J, 19
Right Wing Strobe Light	1	0.35	0.35	K, 19
Tail Strobe Light Power Supplies	1	1.50	1.50	J, 19
Tail Strobe Light	1	0.35	0.35	K, 19
RIGHT LANDING LIGHT CB			8.93	J
			1.90	K
Right Landing Light	1	8.93	8.93	J
Right Landing Light	1	1.90	1.90	K
TAXI LIGHT CB			8.93	J
			1.90	K
Taxi Light	1	8.93	8.93	J
Taxi Light	1	1.90	1.90	K
BEACON LIGHT CB			6.40	J
			1.60	K
Upper Flashing Beacon	1	3.20	3.20	J
Upper Flashing Beacon	1	0.80	0.80	K
Lower Flashing Beacon	1	3.20	3.20	J
Lower Flashing Beacon	1	0.80	0.80	K
CABIN LIGHTS CB			6.25 (FL) or 12.21 (FM)	A
Cabin Lights Dimming Resistors	1	0.01	0.01	B
Cabin Lights Controller	1	0.15	0.15	B

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Table 201. Continuous Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
Cabin Downwash Light Assembly	1	0.51	0.51	B
Cabin Downwash Light Assembly	1	0.72	0.72	B
Cabin Downwash Light Assembly	1	0.72	0.72	B
Cabin Downwash Light Assembly	1	0.72	0.72	B
Cabin Downwash Light Assembly	1	0.38	0.38	B
Cabin Downwash Light Assembly	1	0.72	0.72	B
Cabin Downwash Light Assembly	1	0.72	0.72	B
Cabin Downwash Light Assembly	1	0.72	0.72	B
Cabin Downwash Light Assembly	1	0.44	0.44	B
Cabin Downwash Light Assembly	1	0.44	0.44	B
Cabin Light Power Supply	1	2.00	2.00	C, 19
Cabin Light Power Supply	1	2.00	2.00	C, 19
Cabin Light Power Supply	1	2.00	2.00	C, 19
Cabin Light Power Supply	1	2.00	2.00	C, 19
Cabin Light Power Supply	1	2.00	2.00	C, 19
Cabin Light Power Supply	1	2.00	2.00	C, 19
Cabin Light Dimmer Control Relay	1	0.09	0.09	C, 19
Cabin Light Dimmer Switch Relay	1	0.09	0.09	C, 19
Cabin Light Dimmer	1	0.03	0.03	C, 19
<b>Navigation System (34)</b>				
EQPT COOLING CB			0.19	A
Nose Equipment Cooling Fan	1	0.19	0.19	A

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Table 201. Continuous Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
TCAS CB			3.05	A
TCAS II	1	2.80	2.80	A
TCAS II Mounting Tray Fan	1	0.25	0.25	A
WXR CB			3.10 or 3.57	A
Radar	1	3.10	3.10	A
Multi-Scan Radar (OPTIONAL)	1	3.57	3.57	E
TAWS CB			1.25	D
TAWS+	1	1.25	1.25	D
DME 1 CB			0.64	A
No. 1 DME	1	0.64	0.64	A
RAD ALT CB			1.00	A
Radio Altimeter	1	1.00	1.00	A
ADS 2 CB			0.36	A
No. 2 ADC	1	0.36	0.36	A
AHS 2 CB			0.70	A
No. 2 AHC	1	0.70	0.70	A
XPDR 2 CB			1.00	A
No. 2 Transponder	1	1.00	1.00	A
NAV 2 CB			0.43 or 0.64	A
No.2 NAV (OPTIONAL)	1	0.64	0.64	A
No. 2 NAV	1	0.43	0.43	A
GNSS 2 CB (OPTIONAL)			0.63	A
GNSS 2 GPS	1	0.63	0.63	A
DME 2 CB (OPTIONAL)			0.64	A
No. 2 DME	1	0.64	0.64	A
IEC CB			0.60	A
P/O IAPS - IEC Power	1	0.60	0.60	A
XM WX CB (OPTIONAL)			0.40	A
XM WX	1	0.40	0.40	F
SXM WX	1	0.30	0.30	G
ADS 1 CB			0.36	A
No. 1 ADC	1	0.36	0.36	A

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Table 201. Continuous Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
AHS 1 CB			0.70	A
No. 1 AHC	1	0.70	0.70	A
XPDR 1 CB			1.00	A
No. 1 Transponder	1	1.00	1.00	A
NAV 1 CB			0.64	A
No. 1 NAV	1	0.64	0.64	A
ELT CB			0.12	A
ELT	1	0.12	0.12	A
GNSS 1 CB			0.63	A
GNSS 1	1	0.63	0.63	A
<b>Pneumatic System (36)</b>				
RIGHT BLEED AIR CONTROL CB			1.09	A
Right Bleed Air Flow Control Valve	1	0.03	0.03	A
Right Bleed Air Flow Control Valve	1	1.00	1.00	A
Bleed Air Time Delay	1	0.06	0.06	A
LEFT BLEED AIR CONTROL CB			1.03	A
Left Bleed Air Flow Control	1	0.03	0.03	A
Left Bleed Air Flow Control Valve	1	1.00	1.00	A
<b>Windows System (56)</b>				
SHADES CB			0.35	H
Master Switching Unit	1	0.02	0.02	H
Window Shade Controllers	11	0.03	0.33	H, 19, 36
SHADES CB			0.47	H
Master Switching Unit	1	0.02	0.02	H, 19, 36
Window Shade Controllers	15	0.03	0.45	H, 19, 36
<b>Propeller System (61)</b>				
AUTOFEATHER CB			0.27	A
Autofeather Relay	1	0.09	0.09	A
Autofeather Relay	1	0.09	0.09	A



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Table 201. Continuous Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
Autofeather Annunciator Relay	1	0.09	0.09	A
PROP GOV TEST CB			4.14	A
Ground Idle Stop Enable Relay	1	0.09	0.09	A
Ground Idle Stop Enable Relay	1	0.09	0.09	A
Voltage Dropping Relay	1	0.09	0.09	A
Voltage Dropping Relay	1	0.09	0.09	A
Ground Idle Stop Relay	1	0.09	0.09	A
Ground Idle Stop Relay	1	0.09	0.09	A
Left Ground Idle Stop Solenoid	1	1.80	1.80	A
Right Ground Idle Stop Solenoid	1	1.80	1.80	A
PROP SYNC CB			0.500	A
Prop Sync Control Box	1	0.500	0.500	A, 19

Table 202. Intermittent Load - Electrical Equipment

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
<b>Air Conditioning System (21)</b>				
AC CLUTCH CB			0.090	A
Electric Heat Lockout Relay	1	0.090	0.090	A
GND HEAT CB			0.220	A
Cockpit Blower Motor (Low Speed)	1	0.300	0.300	J, 29, 35
Forward Plenum Servo	1	0.150	0.150	J, 29
Electric Heat Circuit Card Assembly	1	0.070	0.070	J, 29
TEMP CONTROL CB			1.050	J
Left Bleed Air Bypass Valve	1	0.150	0.150	J

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Table 202. Intermittent Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
Right Bleed Air Bypass Valve	1	0.150	0.150	J
Cabin Add Heat Servo	1	0.150	0.150	J
Cabin Heat Servo	1	0.150	0.150	J
Cockpit Heat Servo	1	0.150	0.150	J
Cockpit Add Heat Servo	1	0.150	0.150	J
Forward Plenum Servo	1	0.150	0.150	J
<b>Auto Flight System (22)</b>				
FGS 1 CB 1 0.150			5.500	A
P/O IAPS - Aileron/Rudder Servo Power	1	2.750	2.750	A
P/O IAPS - Aileron/Rudder Servo Power	1	2.750	2.750	A
FGS 2 CB			5.500	A
P/O IAPS - Elevator Servo Power	1	2.750	2.750	A
P/O IAPS - Elevator Servo Power	1	2.750	2.750	A
<b>Communications System (23)</b>				
COM 2 CB			4.280	A
No. 2 VHF Com (Transmit)	1	4.280	4.280	A
HF COM CB (OPTIONAL)			1.100	A
HF Radio (Transmit)	1	1.100	1.100	A
COM 3 CB (OPTIONAL)			4.280	A
No. 3 VHF Com (Transmit)	1	4.280	4.280	A
COM 1 CB			4.280	A
No. 1 VHF Com (Transmit)	1	4.280	4.280	A, 6, 14, 20
<b>Electrical Power System (24)</b>				
GEN RESET CB			0.020	J
			0.600	K

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Table 202. Intermittent Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
Left Generator Control Panel	1	0.010	0.010	J
Left Generator Control Unit	1	0.300	0.300	K
Right Generator Control Panel	1	0.010	0.010	J
Right Generator Control Unit	1	0.300	0.300	K
<b>Equipment/Furnishings (25)</b>				
AVIONICS CLOCK CB			0.100	A
ELT Panel	1	0.100	0.100	A
CABINET CB			2.800	B
Cabin Refreshment Bar Drawer Lights	4	0.120	0.480	B
Left Midship Cabinet Drawer Light	1	0.120	0.120	B
R Midship Cabinet Drawer Light	1	0.120	0.120	B
Left Aft Low Profile Cabinet Drawer Light	2	0.120	0.240	B
R Aft Low Profile Cabinet Drawer Light	2	0.120	0.240	B
R Fwd Low Profile Cabinet Drawer Lights	2	0.120	0.240	B
Vanity Water Valve Assembly	1	0.250	0.250	B
Vanity Drain Valve Assembly	1	0.250	0.250	B
Vanity LED Strip Light	1	0.120	0.120	B
Vanity Light Block	1	0.640	0.640	B
Vanity Light Block Power Supply	1	0.100	0.100	B
CIGAR LIGHTER CB			6.300	A
Pedestal Cigar Lighter	1	6.300	6.300	A
<b>Fire Extinguishing System (26)</b>				

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Table 202. Intermittent Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
RIGHT ENG FIRE EXT CB			3.160	A
R Eng Fire Ext. Bottle	1	3.000	3.000	A
R Eng Fire Ext Arm Light	1	0.040	0.040	A
R Eng Fire Ext Arm Light	1	0.040	0.040	A
R Eng Fire Ext Discharge Lt	1	0.040	0.040	A
R Eng Fire Ext Discharge Lt	1	0.040	0.040	A
LEFT ENG FIRE EXT CB			3.160	A
R Eng Fire Ext. Bottle	1	3.000	3.000	A
R Eng Fire Ext Arm Light	1	0.040	0.040	A
R Eng Fire Ext Arm Light	1	0.040	0.040	A
R Eng Fire Ext Discharge Lt	1	0.040	0.040	A
R Eng Fire Ext Discharge Lt	1	0.040	0.040	A
LEFT FIRE DET CB			0.080	A
Left Engine Fire detector Switch Light	1	0.040	0.040	A, 4
Left Engine Fire detector Switch Light	1	0.040	0.040	A, 4
RIGHT FIRE DET CB			0.080	A
Right Engine Fire detector Switch Light	1	0.040	0.040	A, 4
Right Engine Fire detector Switch Light	1	0.040	0.040	A, 4
<b>Flight Control System (27)</b>				
FLAP MOTOR CB			28.000	A
Flap Motor	1	28.000	28.000	A, 11
FLAP IND & CONTROL CB			1.250	A
Flap Motor Relay	1	1.250	1.250	A, 11

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Table 202. Intermittent Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
<b>Fuel System (28)</b>				
LEFT FIREWALL VALVE CB			2.000	A
L Firewall Shutoff Valve	1	2.000	2.000	A
CROSSFEED CB			0.860	A
Fuel Crossfeed Valve	1	0.680	0.680	A
Left Standby Pump Relay	1	0.090	0.090	A
Right Standby Boost Pump Relay	1	0.090	0.090	A
RIGHT FIREWALL VALVE CB			2.000	A
R Firewall Shutoff Valve	1	2.000	2.000	A
LEFT STANDBY PUMP CB			8.500	A
Left Standby Pump	1	8.500	8.500	A, 12
RIGHT STANDBY PUMP CB			8.500	A
Right Standby Pump	1	8.500	8.500	A, 12
<b>Ice and Rain Protection System (30)</b>				
L PROP DEICE CB			29.400	A
Left Prop Deice Boot	4	7.350	29.400	A
R PROP DEICE CB			29.400	A
Right Prop Deice Boot	4	7.350	29.400	A
SURFACE DEICE CB			1.700	A
Right Adv Lt Test/Surface Deice Module	1	0.200	0.200	A, 10
Deice Distributor Valve	1	1.500	1.500	A, 10
LEFT STBY ENG ANTI-ICE CB			3.040	A
Left Auxiliary Actuator	1	3.000	3.000	A
Left Eng Anti-Ice Pwr On Relay	1	0.040	0.040	A
RIGHT STBY ENG ANTI-ICE CB			3.040	A
Right Auxiliary Actuator	1	3.000	3.000	A

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Table 202. Intermittent Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
Right Eng Anti-Ice Pwr On Relay	1	0.040	0.040	A
LEFT MAIN ENG ANTI-ICE CB			3.040	A
Left Main Engine Anti-Ice Actuator	1	3.000	3.000	A, 10
Left Main Engine Anti-Ice On Relay	1	0.040	0.040	A
RIGHT MAIN ENG ANTI-ICE CB			3.040	A
Right Main Engine Anti-Ice Actuator	1	3.000	3.000	A, 10
Right Main Engine Anti-Ice On Relay	1	0.040	0.040	A
<b>Indicating and Recording System (31)</b>				
AVIONICS MASTER CB			1.500	A
Number 1 Avionics Relay	1	0.500	0.500	A, 7
Number 2 Avionics Relay	1	0.500	0.500	A, 7
Number 3 Avionics Relay	1	0.500	0.500	A, 7
LEFT CHIP DET CB			0.002	A
EDC 1	1	0.001	0.001	A
DCU 1	1	0.001	0.001	A
RIGHT CHIP DET CB			0.002	A
EDC 2	1	0.001	0.001	A
DCU 2	1	0.001	0.001	A
ANN POWER CB			0.480	A
Master Warning Light	1	0.120	0.120	A
Master Warning Light	1	0.120	0.120	A
Master Caution Light	1	0.120	0.120	A
Master Caution Light	1	0.120	0.120	A
LEFT BLEED AIR WARN CB			0.002	A
EDC 1	1	0.001	0.001	A, 4
DCU 1	1	0.001	0.001	A, 4
LEFT OIL PRESS WARN CB			0.002	A

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Table 202. Intermittent Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
EDC 1	1	0.001	0.001	A, 4
DCU 1	1	0.001	0.001	A, 4
ANN IND CB			0.253	A
Left Firewall Valve Lights	1	0.040	0.040	A, 4
Left Firewall Valve Lights	1	0.040	0.040	A, 4
Right Firewall Valve Lights	1	0.040	0.040	A, 4
Right Firewall Valve Lights	1	0.040	0.040	A, 4
Cabin Lights Control Relay	1	0.093	0.093	B, 4
RIGHT BLEED AIR WARN CB			0.002	A
EDC 2	1	0.001	0.001	A
DCU 2	1	0.001	0.001	A
RIGHT OIL PRESS WARN CB			0.002	A
EDC 2	1	0.001	0.001	A
DCU 2	1	0.001	0.001	A
CABIN ALT HIGH CB			0.120	A
Cabin Alt Aural Warn Silence Relay	1	0.060	0.060	A
Cabin Alt Warning Relay	1	0.060	0.060	A
CABIN DIFF HIGH CB			0.002	A
RDC 1	1	0.001	0.001	A
RDC 2	1	0.001	0.001	A
LEFT FUEL PRESS WARN CB			0.002	A
EDC 1	1	0.001	0.001	A, 4
DCU 1	1	0.001	0.001	A, 4
RIGHT FUEL PRESS WARN CB			0.002	A
EDC 2	1	0.001	0.001	A, 4
DCU 2	1	0.001	0.001	A, 4
PFD 1 CB			3.80	A
PFD 1	1	3.80	3.80	A, 20
<b>Landing Gear System (32)</b>				
LANDING GEAR MOTOR CB			150.200	A

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Table 202. Intermittent Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
Landing Gear Motor	1	150.000	150.000	A, 11
Time Delay Module Assembly	1	0.020	0.020	A, 11
Time Delay Relay	1	0.090	0.090	A, 11
Time Delay Relay	1	0.090	0.090	A
LANDING GEAR WARN CB			0.180	A
Landing Gear Warning Silence Relay	1	0.090	0.090	A
Landing Gear Warning Silence Relay	1	0.090	0.090	A
LANDING GEAR IND CB			0.170	A
Handle Lamps	1	0.040	0.040	A
Handle Lamps	1	0.040	0.040	A
Landing Gear Handle Lights Relay	1	0.090	0.090	A, 5
LANDING GEAR RELAY CB			1.080	A
Hydraulic Landing Gear Power Relay	1	0.620	0.620	A
Hydr Landing Gear Down Lock Solenoid	1	0.340	0.340	A
Hydraulic Landing Gear Level Sensor	1	0.120	0.120	A
<b>Lighting System (33)</b>				
ENTRY LIGHTS CB			0.340 (FM) or 1.702 (FL)	A
Handle Position Obsv. Lt	1	0.170	0.170	B, 3
Cabin Door Fwd Hook Obs. Lt	1	0.200	0.200	B, 3
Cabin Door Aft Hook Obs. Lt	1	0.200	0.200	B, 3
Cockpit Entry Lights Control Switch	1	0.096	0.096	B, 35
R Fwd Club Table Light	1	0.200	0.200	B, 35
Entry Lights Mini-Switch	1	0.143	0.143	B



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Table 202. Intermittent Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
Vestibule Light	1	0.200	0.200	B, 34
Baggage Light No. 1	1	0.200	0.200	B, 34
Baggage Light No. 2	1	0.200	0.200	B, 34
Entry Lights Power Relay	1	0.093	0.093	B
Air Stair Door Pressure Lock Light	1	0.170	0.170	C, 3, 8
Air Stair Door Pressure Lock Light	1	0.170	0.170	C, 3, 8
RECOG LIGHT CB			2.500	J
			0.600	K
Left Recognition Light	1	1.250	1.250	J
Left Recognition Light	1	0.300	0.300	K
Right Recognition Light	1	1.250	1.250	J
Right Recognition Light	1	0.300	0.300	K
INSTR INDIRECT LIGHTS CB			1.400	A
Indirect Instrument Lights Dim Control	1	0.040	0.040	A
Glareshield Light	1	0.170	0.170	A
Glareshield Light	1	0.170	0.170	A
Glareshield Light	1	0.170	0.170	A
Glareshield Light	1	0.170	0.170	A
Glareshield Light	1	0.170	0.170	A
Glareshield Light	1	0.170	0.170	A
Glareshield Light	1	0.170	0.170	A
Glareshield Light	1	0.170	0.170	A
ICE LIGHT CB			2.860	J
				K
Left Ice Light	1	1.430	1.430	J, 10
Left Ice Light	1	0.200	0.200	K, 10
Right Ice Light	1	1.430	1.430	J, 10
Right Ice Light	1	0.200	0.200	K, 10

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Table 202. Intermittent Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
<b>Oxygen System (35)</b>				
OXY CONTROL CB			0.500	A
Cabin Oxygen Control Solenoid	1	0.500	0.500	A
<b>Pneumatic System (36)</b>				
RIGHT BLEED AIR CONTROL CB			1.100	A
Right Pneumatic Bleed Air Shutoff Valve	1	0.800	0.800	A
Left Bleed Air Bypass Valve	1	0.150	0.150	J, 30
Right Bleed Air Bypass Valve	1	0.150	0.150	J, 30
LEFT BLEED AIR CONTROL CB			0.800	A
Left Pneumatic Bleed Air Shutoff Valve	1	0.800	0.800	A
<b>Water/Waste System (38)</b>				
TOILET/VANITY CB			5.500 (FM) or 7.500 (FL)	A
Toilet	1	7.500	7.500	B, 19
Toilet	1	5.500	5.500	C, 19
<b>Propeller System (61)</b>				
PROP GOV TEST CB			1.600	A
Left Prop Speed Reset Solenoid	1	0.800	0.800	A
Right Prop Speed Reset Solenoid	1	0.800	0.800	A
AUTOFEATHER CB			2.580	A
Autofeather Relay	1	0.090	0.090	A
Autofeather Relay	1	0.090	0.090	A
Left Auto Dump Solenoid Valve	1	1.200	1.200	A
Right Auto Dump Solenoid Valve	1	1.200	1.200	A
<b>Ignition System (74)</b>				
LEFT IGNITOR POWER CB			1.000	A
Left Ignitor Exciter	1	1.000	1.000	A, 9
RIGHT IGNITOR POWER CB			1.000	A

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Table 202. Intermittent Load - Electrical Equipment (continued)

Equipment	# Units Used	Load per Unit (Amps DC)	Total Load (Amps DC)	Notes
Right Ignitor Exciter	1	1.000	1.000	A
<b>Engine Controls System (76)</b>				
LEFT START CONTROL CB			4.860	J
			1.910	K
Left Start Relay	1	4.500	4.500	J, 9
Left Start Contactor	1	1.550	1.550	K, 9
Left Generator Control Relay	1	0.100	0.100	A, 9
Left Control Relay	1	0.090	0.090	A, 9
Left Control Relay	1	0.090	0.090	A, 9
Right Generator Control	1	0.040	0.040	A, 9
Bus Tie Control Relay	1	0.040	0.040	A, 9
RIGHT START CONTROL CB			4.860	J
			1.910	K
Right Start Relay	1	4.500	4.500	J
Right Start Contactor	1	1.550	1.550	K
Right Generator Control Relay	1	0.100	0.100	A
Right Control Relay	1	0.090	0.090	A
Right Control Relay	1	0.090	0.090	A
Bus Tie Control Relay	1	0.040	0.040	A
Left Generator Control	1	0.040	0.040	A



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**MAIN POWER DISTRIBUTION PANEL - REMOVAL/INSTALLATION**

**1. Main Power Distribution Panel**

**A. Removal**

- (1) Make sure that the BAT switch is set to the OFF position and tag the switch with a caution tag indicating "DO NOT APPLY POWER".
- (2) Perform the BATTERY POWER DISCONNECT procedure (Ref. 24-30-01, 201) and tag the connector with a caution tag "DO NOT RECONNECT".
- (3) Remove the center aisle carpet forward of the main spar.
- (4) Remove floorboards 153DCL and 153CCR located forward of the main spar (Ref. 06-50-00).
- (5) Tag and disconnect all wires to the main power distribution panel assembly.
- (6) Tag and disconnect all electrical connectors (4).
- (7) Remove the nut (10), lock washer (9), two steel flat washers (8), two aluminum flat washers (7) and the screw (6) that attaches the jumper assembly (5) to the structure. Make note of the flat washer locations for later installation.
- (8) Remove the six screws (2) and washers (3) and remove the main power distribution panel (1) from the airplane.

**B. Installation**

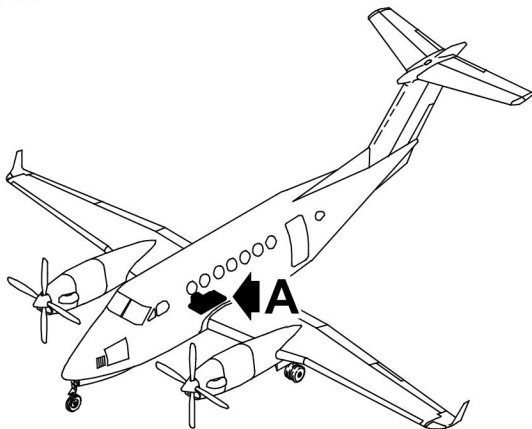
- (1) Position the main power distribution panel (1) on the mounting brackets and install the six screws (2) and washers (3) (Ref. Figure 401).
- (2) Attach the jumper assembly (5) to the structure with the screw (6), two aluminum flat washers (7), two steel flat washers (8), the lock washer (9) and the nut (10) (Ref. 20-03-00, 201).

**NOTE:** The two steel washers (8) are installed under the nut (10) and the two aluminum washers (7) are installed under the screw head (6).

- (3) Connect all electrical connectors (4) to the main power distribution panel (1).
- (4) Connect all the wires to the main power distribution panel (1).
- (5) Install floorboards 153DCL and 153CCR forward of the main spar (Ref. 06-50-00)
- (6) Install the center aisle carpet forward of the main spar.
- (7) Perform the BATTERY POWER CONNECT procedure (Ref. 24-30-01, 201) and remove the caution tags.
- (8) Perform the DC ELECTRICAL LOAD DISTRIBUTION SYSTEM INSPECTION/CHECK procedure (Ref. 24-60-00, 601).

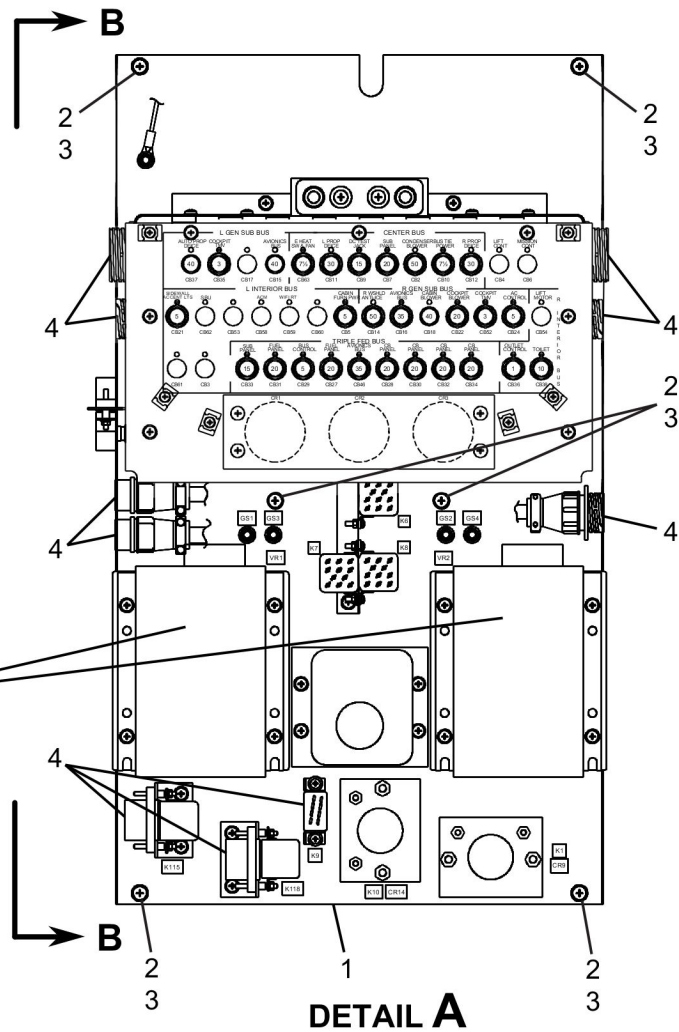
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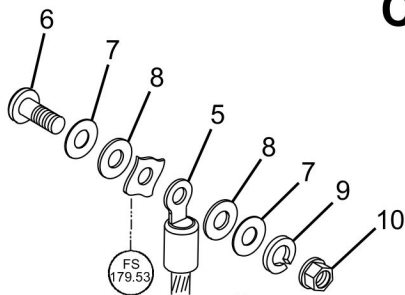


**GENERATOR CONTROL PANEL**  
 FL-954, FL-1010, FL-1031 THRU FL-1299,  
 FL-1301 THRU FL-1306;  
 FM-66 THRU FM-109

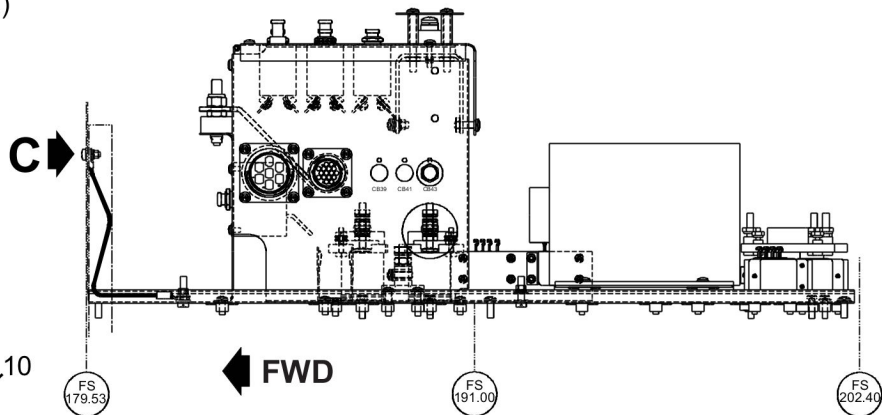
**DIGITAL GENERATOR CONTROL UNIT (DGPU) (SHOWN)**  
 FL-1300, FL-1307 AND AFTER;  
 FM-110 AND AFTER  
 (REF)



1. MAIN POWER DISTRIBUTION PANEL
2. SCREW
3. WASHER
4. ELECTRICAL CONNECTOR
5. JUMPER
6. SCREW
7. FLAT WASHER (ALUMINUM)
8. FLAT WASHER (STEEL)
9. LOCK WASHER
10. NUT



**DETAIL C**



**VIEW B-B**

Main Power Distribution Panel Installation (Typical)  
 Figure 401 (Sheet 1)



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**DC ELECTRICAL LOAD DISTRIBUTION SYSTEM - DESCRIPTION AND OPERATION**

**1. Description**

The electrical load distribution system provides the means of supplying direct current to the various airplane systems. Refer to Figure 1 for airplane serials FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306, and FM-66 thru FM-109. Refer to Figure 2 for airplane serials FL-1300, FL-1307 and On, and FM-110 and On. Direct current is provided from three separate DC power sources, the battery, and the left and right starter/generators. Refer to Chapter 24-30-00, 001 for detailed information on DC power generation and control and battery. A ground power unit may be connected to the airplane to supply power to the primary buses during ground operation. Refer to Chapter 24-40-00, 001 for detailed information on the external power system.

Five primary buses distribute power from the dc power sources. They consist of left and right generator buses, center bus, triple fed bus and the battery bus. The buses are interconnected to provide a triple fed, single loop system that is protected through the current limiters and bus-tie relays. The battery bus is connected to the battery through the remote control circuit breaker and is located in the fuel control panel. Refer to Chapter 31-10-00, 001 for an illustration of the fuel control panel. The battery switch and the battery bus switch are both located in the pilot's outboard panel. The generator buses are located aft of the firewall on the inboard side of the respective nacelle. The center bus is located under the forward center aisle floor and is powered from each generator through current limiters, current sensors and left and right bus-tie relays. The generator buses and the battery are all tied together by the center bus.

The GEN TIES and BUS SENSE switches are located on the pilot's outboard subpanel to provide control over the bus-tie system. Placing the BUS SENSE switch in the TEST position applies a control voltage from the buses to each current sensor's test input. This voltage simulates an overcurrent condition to exercise the current sensor hall effect device circuitry. The current sensors signal the bus-tie control PCB to open the bus tie relays for the test. All three bus-tie caution annunciators should illuminate. Reaction time of the battery sensor is 0.1 second and 0.01 second for the generator bus current sensors. Because reaction time is so fast, only a momentary actuation of the BUS SENSE switch to TEST is necessary. By momentarily moving the BUS SENSE switch to RESET, the technician removes power to the bus tie control relay coils to de-energize them. Voltage is then removed from the bus tie annunciators and applied to the bus tie relay coils by the bus tie control PCB to close the bus tie relays.

The GEN TIES switch is used to manually open or close the bus ties. When the GEN TIES switch is momentarily placed in the MAN CLOSE position, the bus tie control PCB manually closes the generator bus-tie relays. This allows battery power to be applied to the generator buses during ground maintenance or testing without running engines. The MAN TIES CLOSE annunciator is illuminated anytime the generator bus tie relays are closed using the GEN TIES switch. The GEN TIES switch will manually open the generator bus tie relays anytime it is placed in the open position. While in the NORM position, control of the generator bus tie relays is automatic through the bus tie control PCB. The generator bus tie relays automatically close when a generator or external power is on-line.

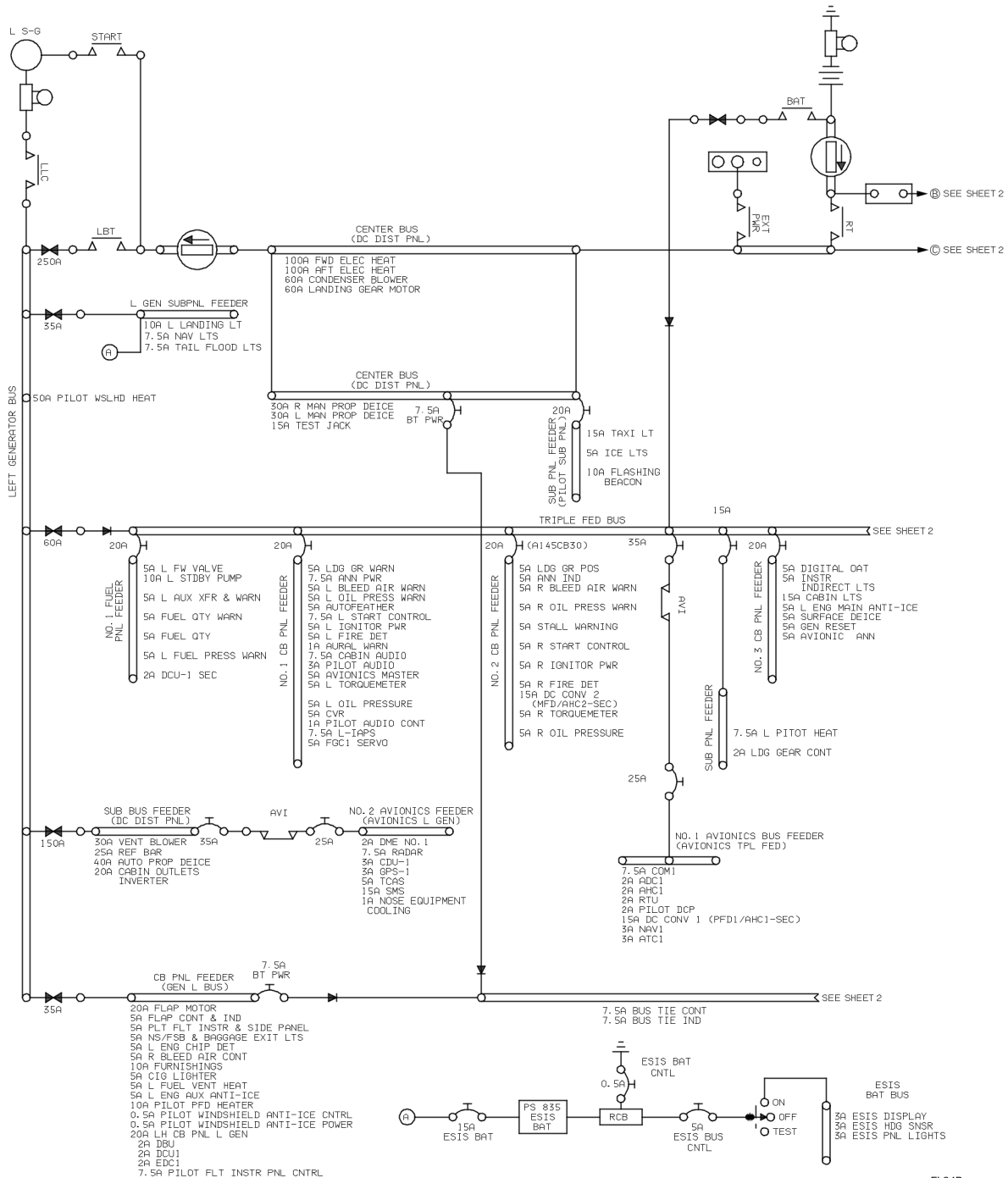
Electrical power is distributed to the avionics equipment from three primary buses through the three power relays and three feeder circuit breakers. The avionics bus feeder circuit breakers and power relays are located on the A145 main power distribution panel. The avionics master control and avionics power circuit breakers are located on the R circuit breaker panel.

The avionics power relays are energized with the triple fed bus voltage through the avionics master power switch placarded AVIONICS MASTER POWER OFF on the pilot outboard subpanel. When the avionics master switch is placed in the ON position, voltage is removed from each avionics relay coil and the contacts are closed to supply power to the avionics power circuit breakers. The circuit is such that the avionics relays are opened by the control voltage when the master switch is OFF. This configuration allows power to be supplied to the relay controlled avionics buses if control voltage is lost. Memory power for selected avionics equipment is pulled from the "hot" battery bus.



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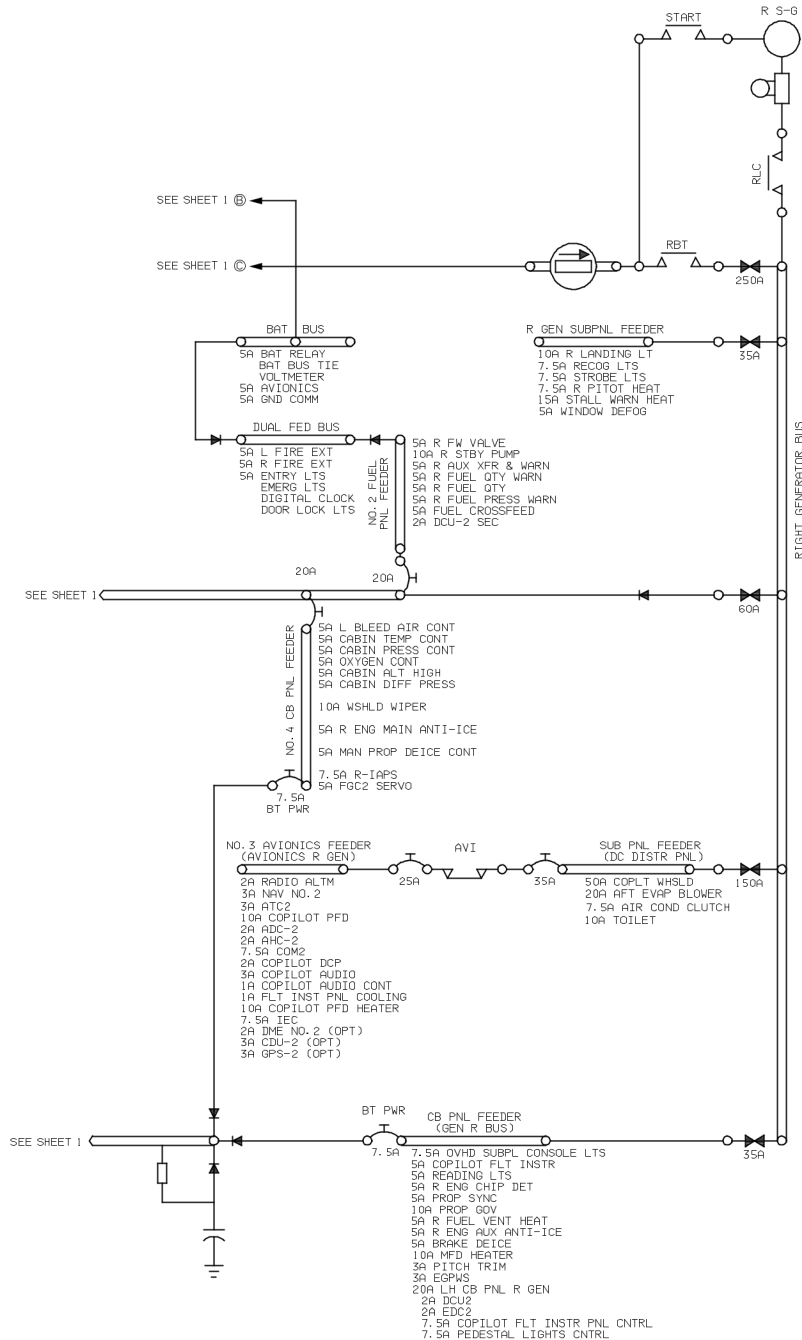


FL24B  
143390AA.PDF

Electrical Load Distribution Schematic (FL-954, FL-1010, FL-1031 thru FL-1299, FI-1301 thru FL-1306; FM-66 thru FM-109)  
Figure 1 (Sheet 1)

# BEECHCRAFT® SUPER KING AIR MODEL B300/B300C FUSION MAINTENANCE MANUAL

E24335

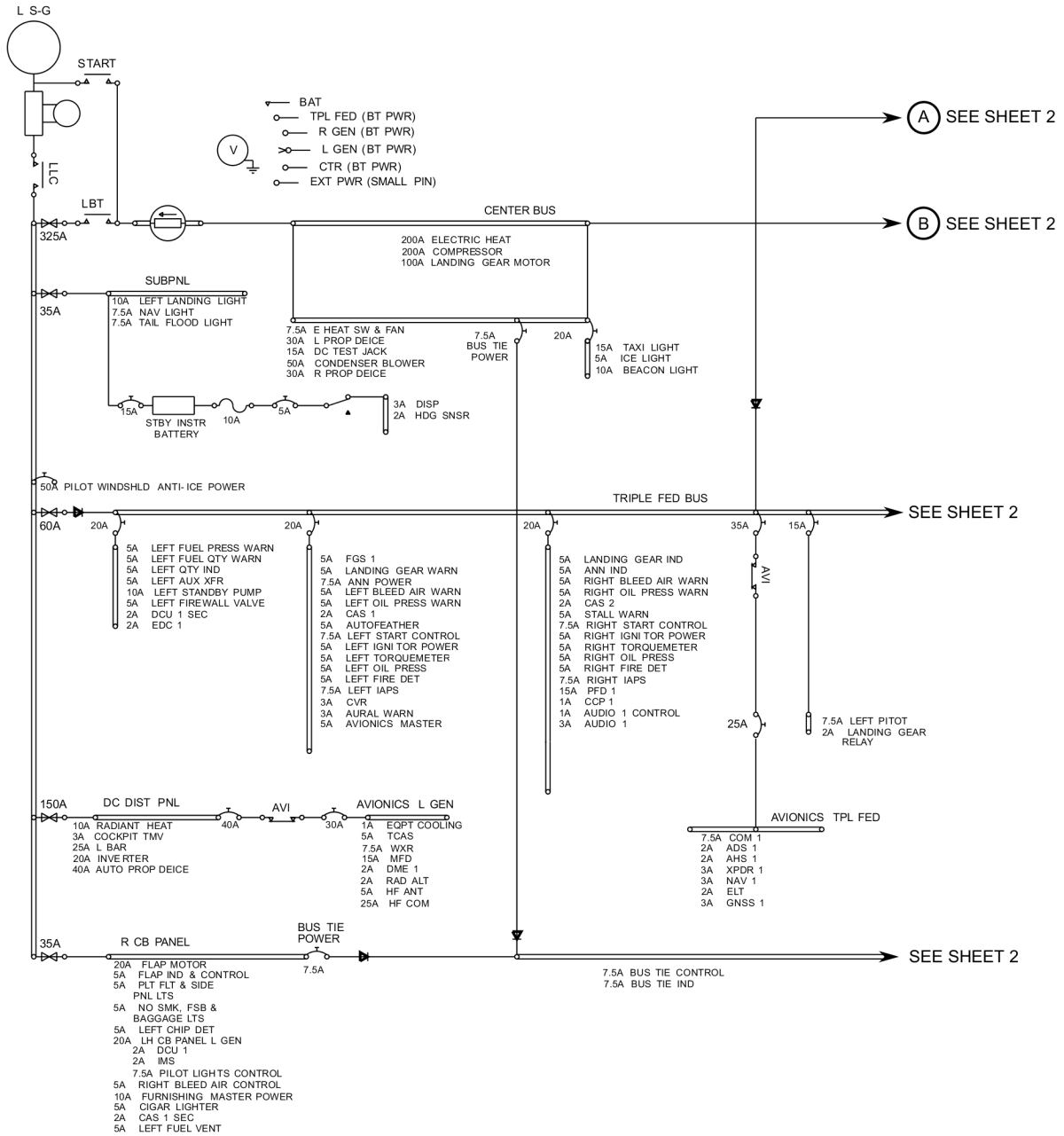


FL24B  
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Electrical Load Distribution Schematic (FL-954, FL-1010, FL-1031 thru FL-1299, FI-1301 thru FL-1306; FM-66 thru FM-109)  
Figure 1 (Sheet 2)

# BEECHCRAFT® SUPER KING AIR MODEL B300/B300C FUSION MAINTENANCE MANUAL

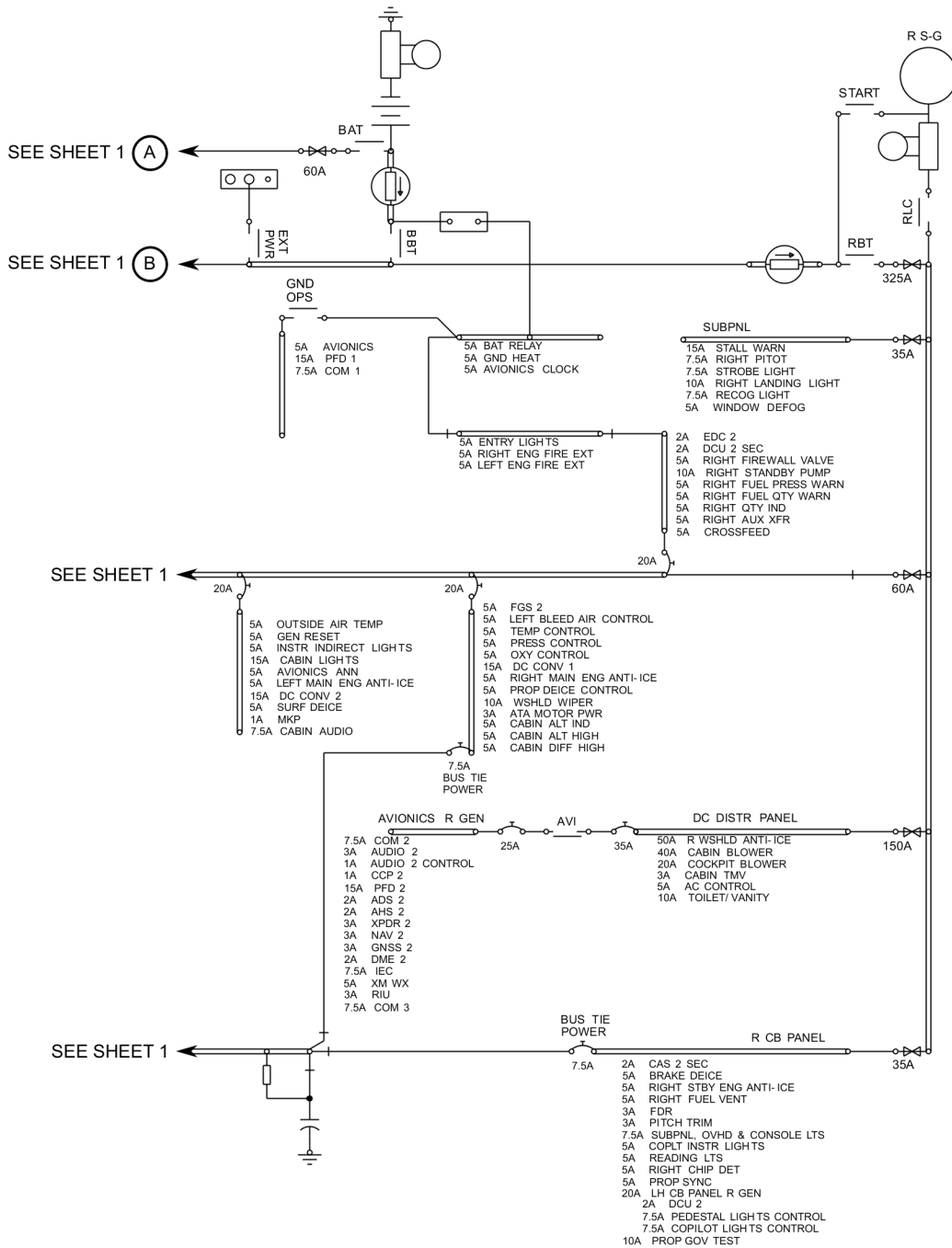
E77553



Electrical Load Distribution Schematic (FL-1300, FL-1307 and On; FM-110 and On)  
Figure 2 (Sheet 1)

# BEECHCRAFT® SUPER KING AIR MODEL B300/B300C FUSION MAINTENANCE MANUAL

E77554



Electrical Load Distribution Schematic (FL-1300, FL-1307 and On; FM-110 and On)  
Figure 2 (Sheet 2)

1

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**STATIC SYSTEM - INSPECTION/CHECK**

**1. Description**

- A. This document provides the inspection tasks to inspect the pitot static system. Refer to Chapter 34-10-00, 001 for the Description and Operation of the Air Data System.

Task 34-10-07-2100

**2. Standby Display Unit (SDU) General Visual Inspection (FL-1300, FL-1307 and After; FM-110 and After)**

- A. Task Preparation.
- (1) Special Tools and Equipment.
    - This task does not require the use of any special tools or equipment.
  - (2) Special Consumables.
    - This task does not require the use of any special consumables.
  - (3) External Reference Material.
    - This task does not require the use of any external reference materials.
- B. Configure the Airplane.
- C. Complete the Standby Display Unit (SDU) General Visual Inspection).
- (1) Inspect the SDU for the following:
    - (a) Security of attachment to the glareshield.
    - (b) Damage to the display screen, multi-function knob or control buttons.
    - (c) Ambient light sensor for obstructions.
    - (d) General cleanliness, clean as necessary using isopropyl alcohol, 100% ammonia free glass cleaner, water, or a mild detergent solution with a lint free micro-fiber cloth.
- CAUTION:** Do not use ammonia based glass cleaners, waxes or abrasive cleaners as these may harm the anti-reflective coating on the display screen.
- D. Return the airplane to its initial condition, as necessary.

End of task

Task 34-10-07-2101

**3. Remote Standby Controller (RSC) General Visual Inspection (FL-1300, FL-1307 and After; FM-110 and After)**

- A. Task Preparation.
- (1) Special Tools and Equipment.
    - This task does not require the use of any special tools or equipment.
  - (2) Special Consumables.
    - This task does not require the use of any special consumables.
  - (3) External Reference Material.
    - This task does not require the use of any external reference materials.
- B. Configure the Airplane.
- C. Complete the Remote Standby Controller (RSC) General Visual Inspection).
- (1) Inspect the RSC for the following:
    - (a) Security of attachment to the upper avionics shelf.
    - (b) Security of connection and condition of the Ps (Static) and Pt (Pitot) lines to the RSC.
    - (c) Security of the electrical connector.
- D. Return the airplane to its initial condition, as necessary.

End of task

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Task 34-10-07-7200

**4. Pitot and Static System Functional Check**

- A. Task Preparation.
- (1) Special Tools and Equipment.
    - This task does not require the use of any special tools or equipment.
  - (2) Special Consumables. Refer to King Air Standard Practices 20-15-00, 201.
    - 06-009 Solvent
    - 09-002 Lint Free Cloth
  - (3) External Reference Material.
    - This task does not require the use of any external reference materials.
- B. Configure the Airplane.
- (1) Configure the airplane as necessary.
- C. Complete the Pitot and Static System Functional Check.
- (1) Do a check of the static system.

**NOTE:** This task is to be performed as required by CFAR 91.411.

**NOTE:** The amount of attention required by the static system depends largely on operating conditions. Foreign matter is most likely to accumulate in the static ports and lines during times of high humidity, excessive precipitation, and dry dusty weather; consequently, the system should be checked frequently under such circumstances or at the interval specified in Chapter 05.

**NOTE:** Erratic instrument readings may result if wax or polish is applied to the static air buttons. Clean the static air buttons periodically using a clean, lint free cloth (09-002, Consumables) dampened with solvent (06-009, Consumables), or equivalent, to make sure that no film has formed on them.

**CAUTION:** Never blow air through the line toward the Air Data Computers (ADC); to do so may seriously damage the ADC's. When blowing back through the line from the ADC's, make sure that the static lines have been disconnected so no pressure can reach the ADC's.

- (a) Disconnect the line at the ADC and blow low pressure air through the lines to the static ports. Cover each static port separately during this procedure to make sure that each line is clear, since even one clogged port causes instrument error.

**CAUTION:** Do not drain the static air system while in flight or when the cabin is pressurized.

- (b) Drain the static air line by opening the access door located in the lower right crew compartment wall. A drain valve is placed in the line at this location to facilitate the removal of moisture.

**NOTE:** It is essential the static air system be drained after the airplane has been exposed to rain.

- (c) Close the alternate static air valve to prevent air from being blown into the cabin during the following step.
  - (d) Disconnect the line from the valve at the point where it connects to the airspeed indicator and blow the alternate static air line clear.
- (2) Complete the Pitot and Static leak tests (Ref. 34-10-01, 501).
    - (a) Do the Pilot Pitot System leak test.

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- (b) Do the Pilot Static System leak test.
- (c) Do the Copilot Pitot System leak test.
- (d) Do the Copilot Static System leak test.
- (3) Complete the calibration check of the Standby Display Unit (SDU) and Remote Standby Controller (RSC) altimeter. (FL-1300, FL-1307 and After; FM-110 and After). (Ref. 34-25-03, 501).

D. Return the airplane to its initial condition, as necessary.  
End of task

Task 34-10-07-7100

**5. Pitot Tube Operational Check**

- A. Task Preparation.
  - (1) Special Tools and Equipment. Refer to King Air Standard Practices Chapter 20-14-00, 201.
    - This task does not require the use of any special tools or equipment.
  - (2) Special Consumables. Refer to King Air Standard Practices 20-15-00, 201.
    - This task does not require the use of any special consumables.
  - (3) External Reference Material.
    - This task does not require the use of any external reference materials.
- B. Configure the Airplane.
  - (1) Locate pitot heat circuit breakers located on the left inboard subpanel.
- C. Complete the Pitot Tube Operational Check
  - (1) Inspect pitot tubes on the left and right sides of the aircraft for damage and corrosion.
  - (2) With a flashlight and mirror examine the inner tubing and make sure they are clean and free of debris.
  - (3) Inspect the smaller holes along the pitot tubing and make sure they are clean and free of debris.

**WARNING: Before turning on pitot heat take the proper precautions to ensure the safety of people working near by.**

- (4) Engage circuit breakers and ensure they are properly heating.

**CAUTION: Do NOT touch pitot tube while circuit breaker is engaged.**

- (5) Pull circuit breakers and make sure pitot tubes stop heating.
- (6) If pitot tube does not heat properly troubleshoot or remove and replace as necessary.

D. Return the airplane to its initial condition, as necessary.  
End of task





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**ELECTRONIC STANDBY INSTRUMENT SYSTEM (ESIS) - DESCRIPTION AND OPERATION**  
**(FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306; FM-66 thru FM-109)**

**1. Description**

The GH-3900 Electronic Standby Instrument System (ESIS) provides a visual display of attitude (pitch and roll) and slip/skid information computed from an internal three-axis inertial sensor cluster. Air Data information for baro corrected altitude, air speed and vertical speed is provided by the pitot and static inputs. The Electronic Standby Instrument System (ESIS) comprises of a DU-42 ESIS Display Unit, a GH-3900RSU Remote Sensor Unit, a DCM-3000 Detachable Configuration Module and a MAG-3000A Magnetometer.

The DU-42 ESIS Display Unit is installed in the glareshield, above the instrument panel. It is a solid state instrument that receives geophysical data from the remotely mounted GH-3900RSU sensor. Information is displayed on a color Active Matrix Liquid Crystal Display (AMLCD). A bezel mounted light sensor provides automatic display dimming capability, with manual offset control achieved through the menu mode.

The DCM-3100 Detachable Configuration Module is a solid state device intended for installation on the GH-3900RSU Remote Sensor Unit connector.

**NOTE:** If the DU-42 ESIS Display Unit is removed for maintenance, the DCM-3100 remains with the airplane via a chain that is attached to the GH-3900RSU airplane wiring harness.

The MAG-3000A Magnetometer is installed in the tail cone at STA 471.234. The Magnetometer uses a three axis magnetic sensor that senses magnetic fields and converts these signals into a digital format that is then transmitted to the Remote Sensor Unit. The signal is then used with the pitch and roll attitude of the ESIS Display Unit to compute the magnetic heading of the airplane.

The standby instrument battery bus powers the standby instrument system. The standby instrument system is controlled via a two-poled three-position locking lever located on the left outboard subpanel. The No. 3 dual fed bus supplies power to the standby instrument battery bus through the PS-835D Standby Instrument Battery. When the standby instrument switch is in the ON position, the AMBER LED on the left outboard subpanel remains off or failed, the AMBER LED will illuminate indicating that the battery is being drained. When the standby instrument switch is in the momentary TEST position, the GREEN LED on the left outboard subpanel illuminates if the PS-835D battery is sufficiently charged.



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**ESIS DISPLAY UNIT (DU-42) - MAINTENANCE PRACTICES**  
**(FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306; FM-66 thru FM-109)**

**1. ESIS Display Unit (DU-42)**

The ESIS Display Unit (DU-42) does not require scheduled maintenance or scheduled overhaul and is designed to be maintained on a "Condition Monitored" basis. Regular maintenance of the display is not required except as included in this section. Clean and inspect at regular intervals.

A. Periodic Cleaning and Inspection

- (1) Check that mounting hardware is secure, cable connectors are secure and connecting cables are not cut or pinched.
- (2) Check ESIS Display Unit (DU-42) faceplate for cleanliness.
  - (a) The bezel, softkeys, and display glass can be cleaned with a dry lint-free, static-free cloth. Care should be taken to avoid scratching the surface of the display. When cleaning the display with a cloth, only apply minimal/light pressure to the display. If necessary, a lint free cloth dampened with isopropyl alcohol or a high quality lens cleaner may be used to clean the display. Only minimal/light pressure should be applied to the display when cleaning. Cleaning fluid should only be applied to the cloth. To prevent the cleaning fluid from seeping into the unit, never spray or pour the cleaning fluid on the face of the unit.
  - (b) The display contains an anti-reflective coating. Applying too much pressure during cleaning can remove this coating. When viewing an unpowered display smudges may be visible. These smudges are not typically visible when the display is powered and displaying information. Aggressive cleaning of the display to remove smudges may result in degrading or removing the anti-reflective coating on the display. Avoid using ammonia based cleaners on the display.



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**ESIS DISPLAY UNIT (DU-42) - REMOVAL/INSTALLATION**  
**(FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306; FM-66 thru FM-109)**

**1. ESIS Display Unit (DU-42)**

**NOTE:** The ESIS display unit is installed in the glareshield (Ref. Figure 401).

**A. Removal**

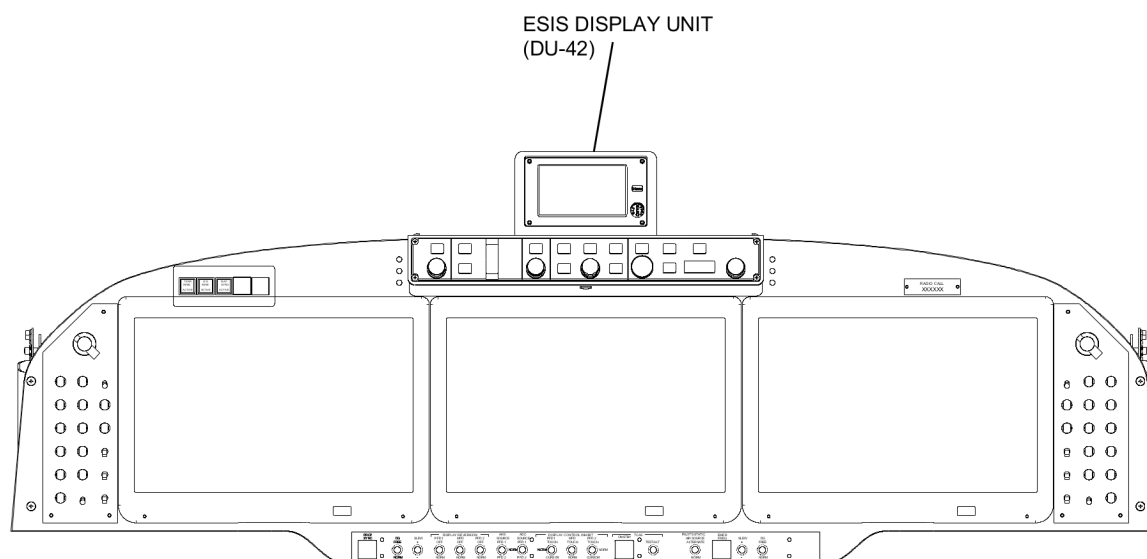
- (1) Make sure that the BAT switch is set to the OFF position and tag the switch with a caution tag indicating "DO NOT APPLY POWER".
- (2) Perform the BATTERY POWER DISCONNECT procedure (Ref. 24-30-01, 201) and tag the connector with a caution tag "DO NOT RECONNECT".
- (3) Loosen two large screws and pull the ESIS Display Unit to remove from the mounting clamp.
- (4) Disconnect the electrical connectors and the DCN-3100 configuration module. Remove the ESIS Display Unit.
- (5) Install protective caps on all connectors.

**B. Installation**

- (1) Remove the protective caps from electrical connectors.
- (2) Connect the electrical connectors.
- (3) Position the ESIS Display Unit on the mounting clamp.
- (4) Tighten the two large screws until the ESIS Display Unit is secure.
- (5) Restore electrical power to the ESIS System and allow the indicator to complete the Built in Test (BIT).
- (6) Perform the ESIS DISPLAY UNIT (DU-42) ADJUSTMENT/TEST procedure (Ref: 34-23-01, 501).

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ESIS Display Unit (DU-42)  
Figure 401 (Sheet 1)





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**ESIS DISPLAY UNIT (DU-42) - ADJUSTMENT/TEST**  
**(FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306; FM-66 thru FM-109)**

**1. ESIS Display Unit (DU-42)**

**NOTE:** The airplane or unit should not be placed into motion or be in motion during indicator alignment.

A. Load Flight Software

- (1) Refer to L3 Communications GH-3900 RSU Installation Manual 0040-38001-01, Section 3 for instructions to load flight software.

B. Post Installation Checkout

This procedure validates the installation of the GH-3900 Electronic Standby Indicator and MAG-3000 Magnetometer (optional). Perform the post installation checkout procedure with aircraft on ground and stationary. Personnel are advised to read through the procedures before performing the checkout.

(1) Power On

- (a) Apply power to the GH-3900 Electronic Standby Instrument System. The unit cycles through the following power up sequence:

1 Power Up: After power is applied the unit starts up in normal mode. In normal mode the unit checks for software, hardware, and configuration module compatibility. Errors detected at this time are shown on the splash screen or the indicator transitions to the field loading mode. Refer to the system status messages in the maintenance section of the L3 Communications GH-3900 RSU Installation Manual 0040-38001-01, for corrective action.

2 Initialization: If the unit starts up in normal mode and no errors are detected then initialization begins. During initialization the following configuration data is obtained: factory setup data, configuration data, settings saved in the Setup Mode, and pilot saved settings. If errors are detected then initialization is skipped and the splash screen is shown with error (BIT) messages.

**NOTE:** If during initialization the unit's software is determined to be incompatible with the data on the configuration module; then the unit transitions to the field loading mode showing the error message "OCM Configuration Error".

3 Observe that the GH-3900 indicator transitions through the following startup sequence:

a Splash Screen: The splash screen shows system name and type, aircraft effectivity, software version, and firmware version for approximately 5 seconds. If a BIT message is detected a message is shown below the system name identifying the problem. The unit does not transition to normal operation.

b Alignment: The unit transitions from the splash screen to alignment mode as indicated by the "ATT ALIGNING" and "DO NOT TAXI" message shown above the aircraft reference symbol. A progress bar is located below the aircraft symbol. During alignment airspeed, attitude and altitude information is shown on the screen. Navigation data is not shown on the display and a heading invalidity may show in place of heading data at the bottom of the display until alignment is complete.

c Within 3 minutes of application of power, observe that alignment messages and progress bar are removed. Verify that the attitude aligns to less than or equal to  $\pm 1^\circ$  of vertical in pitch and roll.

d If the indicator is configured to receive magnetic heading from a magnetometer, then within 3 minutes of application of power, verify that the heading tape and readout align to less than or equal to  $\pm 2^\circ$  of the heading reference.

e If the indicator is configured to receive heading information from ARINC 429, then within 3 minutes of application of power, verify that the heading tape and readout align to within  $\pm 1^\circ$  of the heading reference.

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f Normal Operation: Screen should be displaying display elements with no fail flags (e.g. box with descriptor) present. If a fail flag is present refer to the maintenance section of the L3 Communications GH-3900 RSU Installation Manual 0040-38001-01, for fault isolation and troubleshooting information.

(2) System Status Screen

The status screen provides details (messages) concerning Built-In Test (BIT) failures and installation issues. New messages (current power cycle) have white text. Old messages detected during the last three power cycles are displayed with gray text and are removed from the screen on the fourth power cycle. A minus sign precedes the gray text message if the failure or installation issue is not detected during the current power cycle.

- (a) Select SYS STATUS from the menu window.
- (b) Verify that the message "System OK" in white text is displayed.
- (c) If a BIT message failure is present refer to the L3 Communications GH-3900 RSU Installation Manual 0040-38001-01 to determine cause and refer to the Troubleshooting Instructions in the maintenance section for corrective action.

(3) Display Check

The personnel is responsible to determine that the correct configuration options are showing on display for this checkout. Use the menu window to select display options as needed.

- (a) Verify that no invalidity messages or flags have replaced airspeed, attitude, altitude, or heading display data.
- (b) Check that correct configuration options (e.g. tape backgrounds, heading tape, slip/skid indicator, airplane symbol, and digit colors) are showing on the screen.
- (c) Compare altitude readout information with the primary flight display (PFD). Verify altitudes between both units are within  $\pm 20$  feet. Ensure proper baro setting when doing the altitude check.
- (d) Compare attitude information with PFD. Verify that attitudes between both units are within  $\pm 1^\circ$ .

(4) Magnetic Heading Input Check

The following procedure applies only for installations using magnetic heading input.

- (a) Check that heading elements are shown on the screen and are configured based on configuration settings.
- (b) Position the aircraft in an area (preferably a compass rose) free of distortions (no rebar) in the earth's magnetic field where it can swing  $360^\circ$ .

**NOTE:** The manual alignment function may be used in step 3, 4, and 5 rather than waiting for the heading to stabilize on its own; do this by aligning the aircraft as stated in the procedure, press the M button and use the buttons to the left and right of the M button to scroll the menu until the "Alignment" menu item is selected. Press the adjustment knob to initiate alignment.

- (c) Align the aircraft to the 1st position on a cardinal heading (i.e. north, east, south, or west). Allow the heading to stabilize by waiting a minimum of 3 minutes. The heading displayed on the GH-3900 must be within  $\pm 4.0^\circ$  of the known magnetic heading.
- (d) Align the aircraft to a 2nd position that is  $45.0 \pm 5^\circ$  apart from the 1st position. Allow the heading to stabilize by waiting a minimum of 3 minutes. The heading displayed on the GH-3900 must be within  $\pm 4.0^\circ$  of the known magnetic heading.
- (e) Align the aircraft to a 3rd position that is  $45.0 \pm 5^\circ$  apart from the 2nd position. Allow the heading to stabilize waiting a minimum of 3 minutes. The heading displayed on the GH-3900 must be within  $\pm 4.0^\circ$  of the known magnetic heading.

**NOTE:** If a compass rose is not available the primary heading system in the aircraft may be used. Be aware that the use of other heading references to determine actual aircraft heading may result in additional system error.

(5) ARINC Heading Input Checks

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The following procedure applies only for installations using ARINC 429 heading input.

- (a) Check that heading elements are shown on the screen and are configured based on configuration settings.
- (b) The heading displayed on the indicator must be within  $\pm 1.0^\circ$  of the primary heading display.



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**GH-3900RSU ESIS REMOTE SENSOR - REMOVAL/INSTALLATION**  
(FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306; FM-66 thru FM-109)

**1. GH-3900RSU ESIS Remote Sensor**

**NOTE:** The GH-3900RSU ESIS Remote Sensor is located in the forward avionics bay (Ref. Figure 401).

**A. Removal**

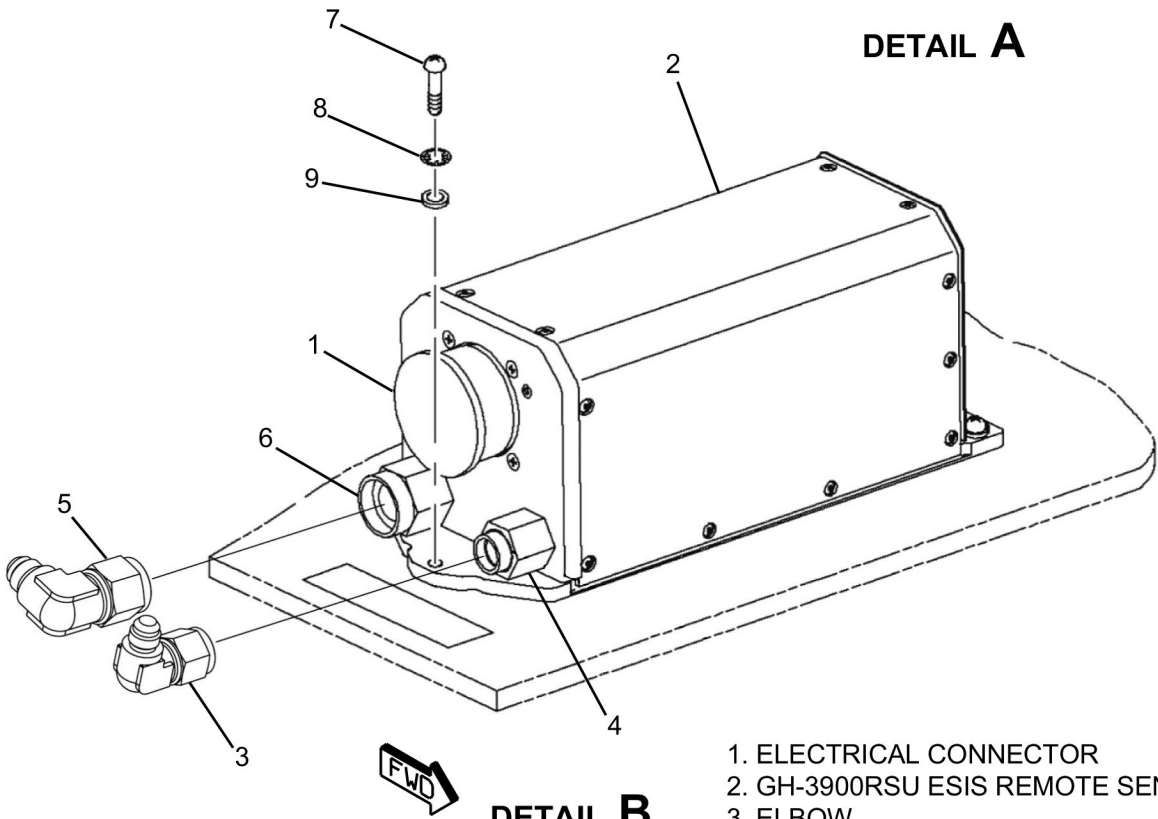
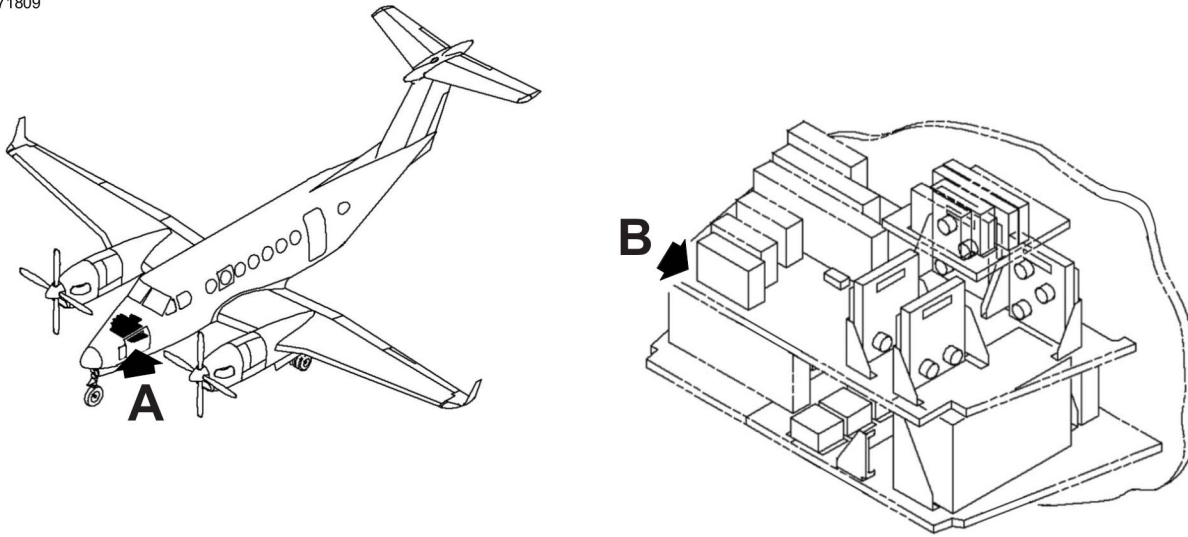
- (1) Perform the BATTERY POWER DISCONNECT procedure (Ref. 24-30-01, 201).
- (2) Remove the right avionics compartment access panel 222CR (Ref. 06-50-00, 001).
- (3) Disconnect the electrical connector (1) from the GH-3900RSU ESIS Remote Sensor (2) (Ref. Figure 401).
- (4) Disconnect the elbow (3) from the PITOT port (4). Remove and discard the packing.
- (5) Disconnect the elbow (5) from the STATIC port (6). Remove and discard the packing.
- (6) Install protective caps or covers on the electrical and pneumatic connectors.
- (7) Remove the screws (7), lock washers (8) and washers (9). Discard the lock washers (8).
- (8) Remove the GH-3900RSU ESIS Remote Sensor (2) from the airplane.

**B. Installation**

- (1) Position the GH-3900RSU ESIS Remote Sensor (2) on the airplane and secure with washers (9), new lock washers (8) and screws (7) (Ref. Figure 401).
- (2) Remove the protective caps and covers from the electrical and pneumatic connectors.
- (3) Install a new packing and connect the elbow (5) to the STATIC port (6).
- (4) Install a new packing and connect the elbow (3) to the PITOT port (4).
- (5) Connect the electrical connector (1) to the GH-34900RSU ESIS Remote Sensor (2).
- (6) Perform the BATTERY POWER CONNECT procedure (Ref. 24-30-01, 201).
- (7) Verify that the software installed on the GH-3900RSU is correct for the aircraft configuration shown at [txtavsupport.com](http://txtavsupport.com).
- (8) Perform the GH-3900RSU ESIS REMOTE SENSOR TEST procedure (Ref. 34-23-03, 501).
- (9) Install the right avionics compartment access panel 222CR (Ref. 06-50-00, 001).

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- 1. ELECTRICAL CONNECTOR
- 2. GH-3900RSU ESIS REMOTE SENSOR
- 3. ELBOW
- 4. PITOT PORT
- 5. ELBOW
- 6. STATIC PORT
- 7. SCREW (3)
- 8. LOCK WASHER (3)
- 9. WASHER (3)

GH-3900RSU ESIS Remote Sensor Installation  
 Figure 401 (Sheet 1)



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**GH-3900RSU ESIS REMOTE SENSOR - ADJUSTMENT/TEST**  
 (FL-954, FL-1010, FL-1031 thru FL-1299, FL-1301 thru FL-1306; FM-66 thru FM-109)

**1. GH-3900RSU ESIS Remote Sensor**

A. Test

**NOTE:** Whenever the GH-3900 RSU has been replaced and/or the pitot/static connections have been disconnected the following test must be performed.

- (1) Perform the PILOT and COPILOT PITOT SYSTEM LEAK TEST procedures and PILOT and COPILOT STATIC SYSTEM LEAK TEST procedures (Ref. 34-10-01, 501).
- (2) Perform the altitude pressure check as follows:
  - (a) Set the barometric pressure on the display to 29.92 in Hg.
  - (b) Set pitot pressure on the air data test set to the normal cruise speed of the airplane.
  - (c) Adjust static pressure air data test set to each of the altitudes listed in CFR Part 91.411, part 43, appendix E up to the service ceiling of the airplane.
  - (d) Observe that the indicator altitude tape moves smoothly and properly displays altitude within the listed tolerances.
- (3) Perform the computer airspeed check as follows:
  - (a) Set the barometric pressure on the display to 29.92 in Hg.
  - (b) Set static pressure to ambient atmospheric pressure.
  - (c) Adjust pitot pressure air data test set to each of the settings listed in Table 501.
  - (d) Observe that the indicator Airspeed tape moves smoothly and properly displays airspeed up to the VMO speed of the aircraft per the tolerances given in Table 501.

Table 501. Airspeed Tolerance

Airspeed (knots)	Tolerance(+10°C to +50°C)	Results
50	5.0	
80	3.5	
100	2.0	
120	2.0	
150	2.0	
200	2.0	
250	2.4	
300	2.8	
350	3.2	
400	3.6	
450	4.0	





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**MAGNETOMETER (MAG-3000A) - ADJUSTMENT/TEST**  
**(FL-1300, FL-1307 and After; FM-110 and After)**

**1. Information**

Refer to Standard Practices - Airframe Chapter 20-14-00, 201, for information on tools and equipment referenced in Table 501. Refer to Standard Practices - Airframe Chapter 20-15-00, 201, for information on recommended materials referenced in Table 501.

Table 501. Tools/Equipment and Recommended Materials

ITEM	TOOLS AND EQUIPMENT	ITEM	RECOMMENDED MATERIALS
107	Digital Inclinometer		
222	Laptop Computer		
238	Magnetometer Leveling Fork		

**2. Magnetometer (MAG-3000A) Calibration**

A. Magnetometer Pitch/Roll Offset Measurement and Magnetic Field Data

**NOTE:** The Remote Standby Controller (RSC) Attitude Calibration procedure (Ref. 34-25-03, 501) must be performed before the Magnetometer Pitch/Roll Offset Measurement and Magnetometer Calibration can be performed.

- (1) Perform the AIRPLANE LEVELING - THREE POINT JACKING procedure (Ref. 08-20-00, 201).
- (2) Insert the grooved end of the magnetometer leveling fork (238, Table 501) through the aft tailcone bulkhead at FS 516.75 and over the aft edge of the magnetometer mounting bracket. Gently push the leveling fork onto the magnetometer mounting bracket until it stops.
- (3) Place a digital inclinometer (107, Table 501) on the end of the magnetometer leveling fork and measure the pitch (forward and aft) and roll (side to side) mounting angles of the magnetometer. Record the values for use in the magnetometer calibration with the following guidelines:
  - (a) Roll (side to side) angle is positive (+) for right bank angles and negative (-) for left bank angles.
  - (b) Pitch (forward and aft) angle is positive (+) for nose up and negative (-) for nose down.
- (4) Remove the magnetometer leveling fork from the airplane.
- (5) On any device with internet connectivity, access the NOAA's website at <https://www.ngdc.noaa.gov/geomag/calculators/magcalc.shtml>.
- (6) Enter the latitude, longitude and elevation of the current location.
- (7) Select "WMM" in the "Model" field and, if not already present, fill in the date of the current day in the "Start Date" and "End Date" fields.
- (8) Select "Calculate". The "Magnetic Field" window opens.
- (9) Record the following calculated values from the top row of the results table:
  - (a) Horizontal Intensity (nT)
  - (b) North Comp (nT)
  - (c) East Comp (nT)
  - (d) Vertical Comp (nT)
  - (e) Total Field (nT)
- (10) Lower the jacks until the full weight of the airplane is on the nose and main gear wheels. Remove the jacks from under the airplane.

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B. Magnetometer Calibration

**NOTE:** The magnetometer calibration procedure must be performed outdoors in an area of low magnetic influence away from buildings, fences, vehicles or any other large metal objects. The calibration procedures must be performed using the airplane battery only. Do not use an external power source, including power pack battery sets.

**NOTE:** A laptop computer (222, Table 501) with the 7P-13938 service tool software installed is required to perform the RSC attitude calibration.

- (1) Connect the laptop computer (222, Table 501) to the maintenance connector port located on the lower aft side of the center pedestal.
- (2) On the laptop computer, open the 7P-13938 service tool.
- (3) In the "Select PC Com Port" field of the service tool, select the COM1 port option in the drop-down menu (Ref. Figure 501, Sheet 2).
- (4) Set the AVIONICS MASTER POWER switch to ON.
- (5) Move the airplane to a calibration area with a position reference such as a compass rose. Make sure that the calibration area is free from magnetic interference such as adjacent metal buildings or vehicles.

**NOTE:** The airplane can either be towed or taxied to the calibration location. If the airplane is towed to the calibration location, the tow vehicle should be disconnected and moved away from the airplane during calibration procedures to minimize magnetic interference. If the decision is made to taxi the airplane to the calibration location, start both engines in accordance with the applicable B300/B300C Pilot's Operating Handbook and FAA Approved Airplane Flight Manual.

**NOTE:** The primary AHRS indicated magnetic heading may be used for position reference, however, potential inaccuracies in the heading shown by the AHRS can increase the potential for error in the RSC heading.

- (6) Set the STBY DISPLAY switch to ON. Within 30 seconds, press the MENU key to access the main menu.
- (7) Use the multi-function knob on the SDU to scroll to the "SERV MODE" option.
- (8) Push the multi-function knob to select the "SERV MODE" option.

**NOTE:** The next two steps must be performed within 30 seconds of each other to place the RSC into the service mode.

- (9) On the copilot circuit breaker panel, disengage and then re-engage the DISP circuit breaker to restart the SDU/RSC.
- (10) On the laptop computer, select the "Service Request" button at the top of the screen to send a service request message to the RSC (Ref. Figure 502, Sheet 1). The RSC will enter the service mode.
- (11) Select the "Check RSC Comm" button at the bottom of the screen. Make sure that the text displayed in the text field of the 7P-13938 service tool indicates that the RSC is in the service mode.

**NOTE:** If no text is displayed on the laptop computer, this indicates that the RSC is not powered on or that the interface between the RSC and the laptop computer is not connected. A counter of seconds of the duration that the RSC has been in the service mode should also be displayed.

- (12) Once the SDU and RSC are in the service mode, the SDU will display the service mode menu (Ref. Figure 502, Sheet 1).
- (13) On the laptop computer, select the "Magnetometer Calibration" button (Ref. Figure 502, Sheet 1). The screen will display calibration instructions (Ref. Figure 502, Sheet 2).
- (14) Select the "Proceed" button to go to the next step (Ref. Figure 502, Sheet 2).

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- (15) In the appropriate fields, enter the Magnetometer Pitch/Roll Offset data and Magnetic Field Data recorded in Paragraph 2.A. of this section. Select the "Proceed" button to go to the next step.
- (16) When prompted by the 7P-13938 service tool, align the airplane with the north heading position reference and select the "Proceed" button to activate the North heading alignment. Do not move the airplane while the calibration is acquiring the north heading.
- (17) Repeat the previous step as prompted by the 7P-13938 service tool to calibrate east, south and west headings. Align the airplane with each heading as necessary.
- (18) When the final calibration is complete, make sure that the 7P-13938 service tool indicates that the calibration was successful.
- (19) If the 7P-13938 service tool indicates a calibration failure, repeat Steps (14) thru (18) again until the service tool indicates that the calibration was successful.

**NOTE:** Calibration failures are typically caused by excessive magnetic interference, or by the airplane moving during the calibration process.

- (20) Accept the calibration values and exit the 7P-13938 service tool.
- (21) On the copilot circuit breaker panel, disengage and then re-engage the DISP circuit breaker to restart the SDU/RSC.
- (22) Align the airplane to each heading shown in Table 502. Record the primary AHRS displayed headings and the SDU displayed headings in the appropriate fields in Table 502. Allow three minutes for all heading information to stabilize.
- (23) Make sure that the heading indications are within the specified tolerances as shown in Table 502. If any heading indication is not within the specified tolerance, perform Steps (14) thru (18) again until all heading indications are within the specified tolerance.
- (24) Taxi or tow the airplane back to the service facility.
- (25) If engine power was used to move the airplane, shut down both engines in accordance with the applicable B300/B300C Pilot's Operating Handbook and FAA Approved Airplane Flight Manual.
- (26) Set the AVIONICS MASTER POWER switch to OFF.
- (27) Set the STBY Display switch to OFF.
- (28) Disconnect the laptop computer from the maintenance connector port.

Table 502. Heading Calibration Comparison

Set Heading (Degrees, Magnetic)	AHRS Displayed Heading	SDU Displayed Heading	Tolerance
000 (± 5)			± 4 Degrees
045 (± 5)			± 4 Degrees
090 (± 5)			± 4 Degrees
135 (± 5)			± 4 Degrees
180 (± 5)			± 4 Degrees

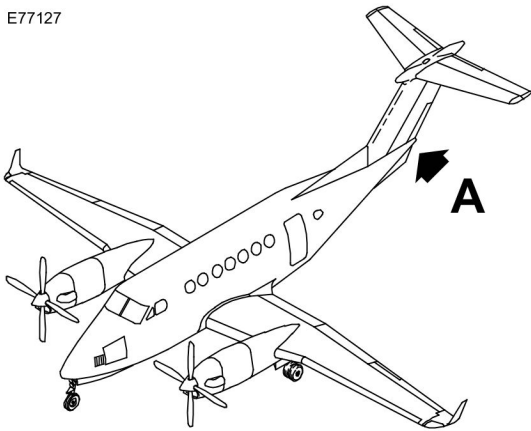
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Table 502. Heading Calibration Comparison (continued)

<b>Set Heading (Degrees, Magnetic)</b>	<b>AHRS Displayed Heading</b>	<b>SDU Displayed Heading</b>	<b>Tolerance</b>
225 (± 5)			± 4 Degrees
270 (± 5)			± 4 Degrees
315 (± 5)			± 4 Degrees

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MAGNETOMETER LEVELING FORK  
 (REF)

TAILCONE  
 (REF)

FS 516.75  
 C

FS 493.75

FS 479.65

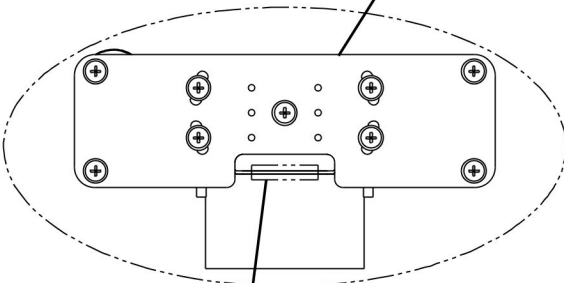
FWD →

MAGNETOMETER  
 (REF)

B

DETAIL A

BACKPLATE  
 (REF)

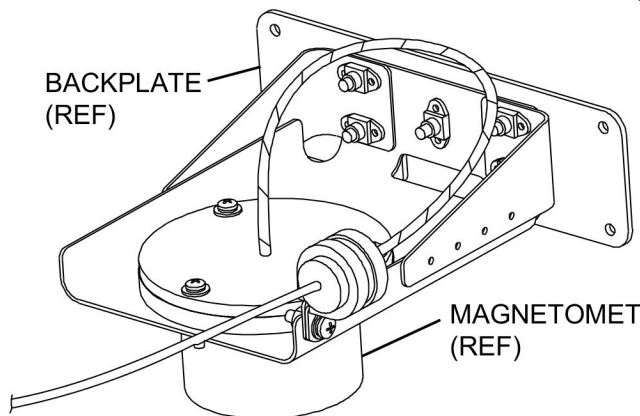


MAGNETOMETER LEVELING FORK  
 (REF)

VIEW C-C

BACKPLATE  
 (REF)

MAGNETOMETER  
 (REF)



DETAIL B

Magnetometer Calibration  
 Figure 501 (Sheet 1)

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## Magnetic Field Calculators

Declination | U.S. Historic Declination | **Magnetic Field** | Magnetic Field Component Grid

### Magnetic Field Estimated Values

Magnetic field is calculated using the most recent [World Magnetic Model \(WMM\)](#) or the [International Geomagnetic Reference Field \(IGRF\)](#) model. For 1590 to 1900 the calculator is based on the [gufm1](#) model. A smooth transition from gufm1 to IGRF was imposed from 1890 to 1900. The [Enhanced Magnetic Model \(EMM\)](#) is a research model compiled from satellite, marine, aeromagnetic and ground magnetic surveys which attempts to include crustal variations in the magnetic field too fine to appear in the World Magnetic Model. The calculator provides an easy way for you to get results in HTML, XML, CSV, or JSON programmatically (API). For more information click the information button.

#### Calculate Magnetic Field

Latitude:   S  N  
Longitude:   W  E  
Elevation:  GPS  Mean sea level

Model:  WMM (2019-2024)  IGRF (1590-2024)  
 EMM (2000-2019)

Start Date: Year  Month  Day   
End Date: Year  Month  Day   
Step size:

Result format:  HTML  XML  CSV  JSON

#### Lookup Latitude / Longitude

Enter a street address, street name, or street intersection. For best results, include as much location information as possible with the street address in your search, such as city, state, zip code.

Location:

NOAA > NESDIS > NCEI (formerly NGDC) > Geomagnetism Questions: [geomag\\_models@noaa.gov](mailto:geomag_models@noaa.gov)

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MAGNETIC FIELD CALCULATOR, LATITUDE/LONGITUDE LOOKUP TOOLS

Magnetometer Calibration  
Figure 501 (Sheet 2)

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## Magnetic Field Calculators

Declination
U.S. Historic Declination
Magnetic Field
Magnetic Field Component Grid

### Magnetic Field Estimated Values ?

Magnetic field is calculated using the most recent [World Magnetic Model \(WMM\)](#) or the [International Geomagnetic Reference Field \(IGRF\)](#) model. For 1590 to 1900 the calculator is based on the [gufm1](#) model. A smooth transition from gufm1 to IGRF was imposed from 1890 to 1900. The [Enhanced Magnetic Model \(EMM\)](#) is a research model compiled from satellite, marine, aeromagnetic and ground magnetic surveys which attempts to include crustal variations in the magnetic field too fine to appear in the World Magnetic Model. The calculator provides an easy way for you to get results in HTML, XML, CSV, or JSON programmatically (API). For more information click the information button above.

Magnetic Field ✕

Model Used: WMM-2020							
Latitude: 37° 39' 15" N							
Longitude: 97° 25' 49" W							
Elevation: 0.0 km Mean Sea Level							
Date	Declination (+ E   - W)	Inclination (+ D   - U)	Horizontal Intensity	North Comp (+ N   - S)	East Comp (+ E   - W)	Vertical Comp (+ D   - U)	Total Field
2021-06-29	3° 21' 33"	65° 18' 21"	21,352.7 nT	21,316.0 nT	1,251.1 nT	46,436.6 nT	51,110.6 nT
<b>Change/year</b>	-0° 5' 42"/yr	-0° 3' 23"/yr	-0.3 nT/yr	1.7 nT/yr	-35.4 nT/yr	-121.1 nT/yr	-110.2 nT/yr
<b>Uncertainty</b>	0° 22'	0° 13'	128 nT	131 nT	94 nT	157 nT	145 nT

Start Date:
Year  Month  Day

End Date:
Year  Month  Day

Step size:

Result format:
 HTML  XML  CSV  JSON

Calculate

NOAA > NESDIS > NCEI (formerly NGDC) > Geomagnetism
Questions: [geomag.models@noaa.gov](mailto:geomag.models@noaa.gov)

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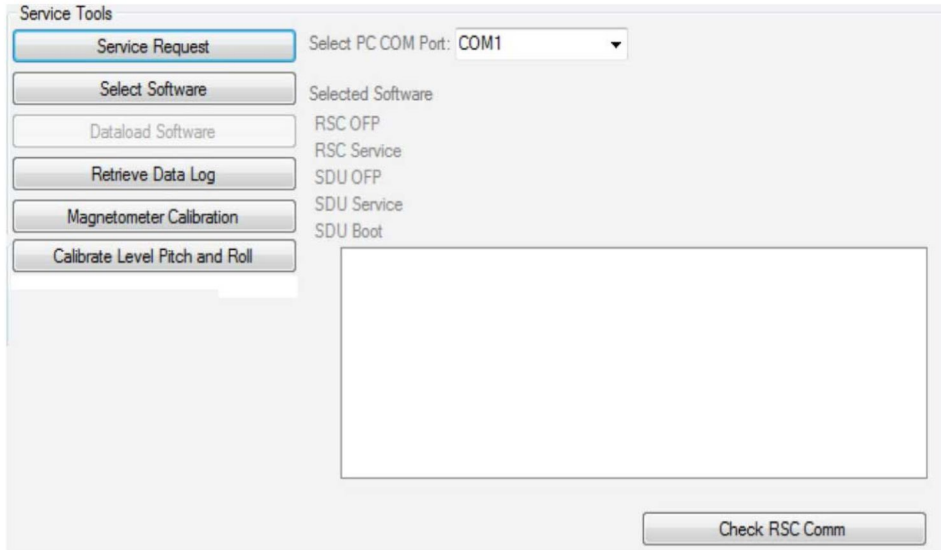
MAGNETIC FIELD VALUES SCREEN

Magnetometer Calibration  
 Figure 501 (Sheet 3)

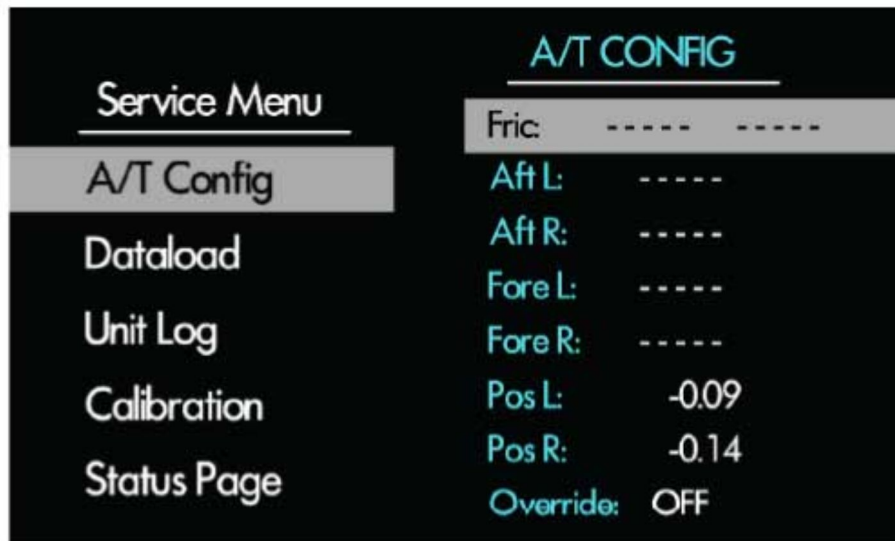


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7P-13938 SERVICE TOOL SCREEN



SERVICE MODE MENU OPTIONS (SDU)

Service Tool and SDU Display Screens  
 Figure 502 (Sheet 1)

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Go Back A Step

To begin the Magnetometer Calibration Procedure press proceed.

File Name MagCalibration

Save Calibration Values

Retry Final Acquisition

Data Entry

Horizontal Intesity 0.0 nT

Vertical Component 0.0 nT

Total Field Strength 0.0 nT

Pitch Offset 0.0 degrees

Roll Offset 0.0 degrees

PROCEED

MAGNETOMETER CALIBRATION INSTRUCTION SCREEN

Service Tool and SDU Display Screens  
Figure 502 (Sheet 2)



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**STANDBY DISPLAY UNIT, AUTO THROTTLE SYSTEM - DESCRIPTION AND OPERATION**  
(FL-1300, FL-1307 and After; FM-110 and After)

**1. Description**

The Standby Display Unit (SDU) is a component of the auto throttle system, and provides a visual display of attitude and air data information provided by the Remote Standby Controller (RSC). The SDU also provides the control inputs to the auto throttle assembly for movement of the power control levers.

The SDU is installed in the glareshield, above the instrument panel. The display screen is divided into two sections. The upper portion displays attitude, heading, navigation and air data information. The lower portion displays auto throttle information (Ref. Figure 1, Detail A).

In the event that any of the flight data parameters are lost or become invalid, the respective display feature will be removed from the display screen and be replaced with a boxed red failure flag. If communication between the SDU and the RSC is lost, all of the boxed red failure flags will appear on the display screen (Ref. Figure 1, Detail B).

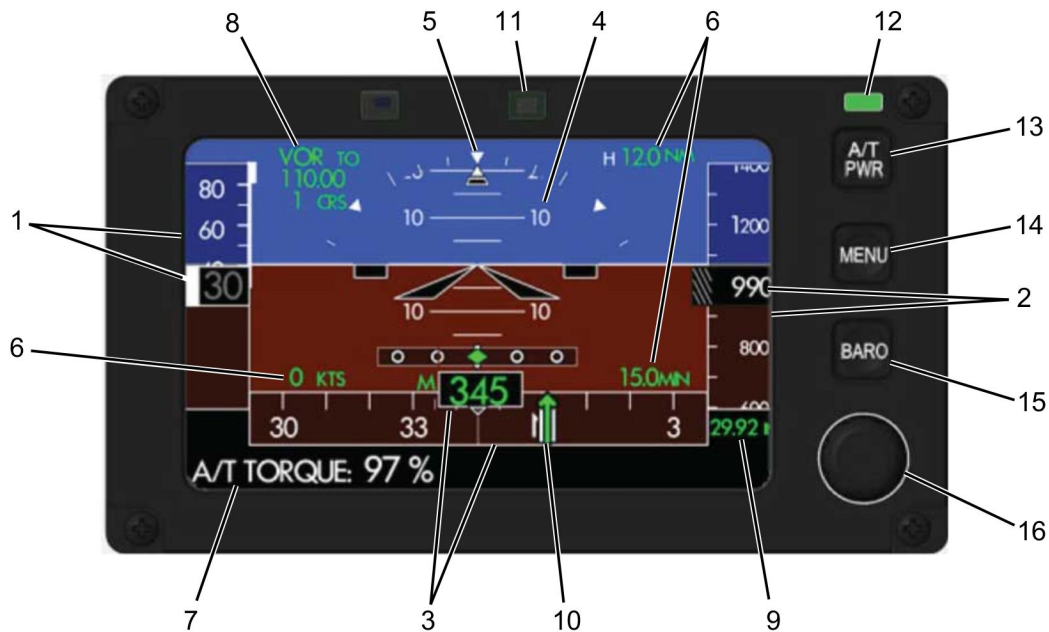
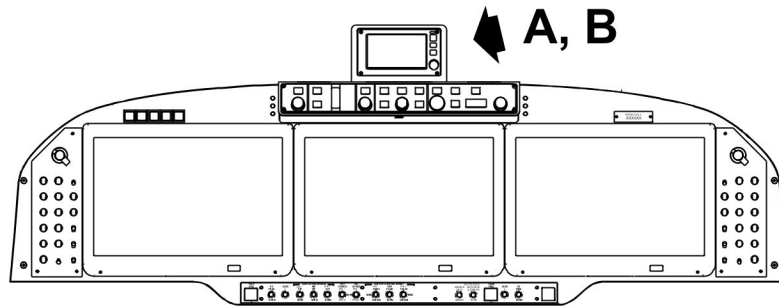
The standby instrument battery bus powers the SDU. The standby instrument system is controlled via a two-poled three-position locking lever located on the left outboard subpanel. The No. 3 dual fed bus supplies power to the standby instrument battery bus through the PS-835D Standby Instrument Battery. When the standby instrument switch is in the ON position, the AMBER LED on the left outboard subpanel remains off. If power from the No. 3 dual fed bus is interrupted, the AMBER LED will illuminate indicating that the battery is being drained. When the standby instrument switch is in the momentary TEST position, the GREEN LED on the left outboard subpanel illuminates if the PS-835D battery is sufficiently charged.

**2. Operation**

- A. A/T PWR Button
  - (1) Engages or disengages the auto throttle system.
- B. MENU Button
  - (1) Activates the main menu.
  - (2) Used to navigate to a previous menu level.
  - (3) Used to enter the service mode on power-up.
- C. BARO Button
  - (1) Activates the baro correction adjustment (altimeter setting).
- D. Multi-Function Knob
  - (1) Rotating the knob adjusts a selected parameter.
  - (2) Pushing the knob activates, edits or accepts the selected parameter.
- E. Ambient Light Sensor
  - (1) Automatically adjusts the brightness of the display screen based on ambient lighting conditions.

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**DETAIL A**

1. AIRSPEED INDICATION
2. ALTITUDE INDICATION
3. HEADING INDICATION
4. PITCH ATTITUDE INDICATION
5. BANK INFORMATION
6. DME INFORMATION
7. AUTO THROTTLE MODE
8. NAVIGATION INFORMATION
9. BARO SETTING
10. CRS AND NAV BEARING
11. AMBIENT LIGHT SENSOR
12. A/T STATUS LED
13. A/T POWER BUTTON
14. MENU BUTTON
15. BARO BUTTON
16. MULTI-FUNCTION KNOB

Standby Display Unit  
 Figure 1 (Sheet 1)

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## DETAIL B

### STANDBY DISPLAY FAILURE FLAGS

FAILURE FLAG	INVALID FEATURE
SPD	AIRSPEED TAPE
ATT	ATTITUDE (ADI)
ALT	ALTITUDE TAPE
HDG	HEADING (HSI)
VERT	VERTICAL SPEED

Standby Display Unit  
Figure 1 (Sheet 2)



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**STANDBY DISPLAY UNIT, AUTO THROTTLE SYSTEM - REMOVAL/INSTALLATION**  
(FL-1300, FL-1307 and After; FM-110 and After)

**1. Standby Display Unit**

**NOTE:** The Standby Display Unit (SDU) is installed in the glareshield (Ref. Figure 401).

**A. Removal**

- (1) Make sure that the BAT switch is set to the OFF position and tag the switch with a caution tag indicating "DO NOT APPLY POWER".
- (2) Disengage the ATA MOTOR PWR and DISP circuit breakers on the copilot circuit breaker panel.
- (3) Loosen the four captive fasteners (2) and pull the SDU (1) from the glareshield.
- (4) Loosen the retention screws on the P1 and P2 electrical connectors. Disconnect the P1 and P2 electrical connectors and remove the SDU (1) from the airplane.
- (5) Install protective caps on the P1, P2, J1 and J2 electrical connectors (3).

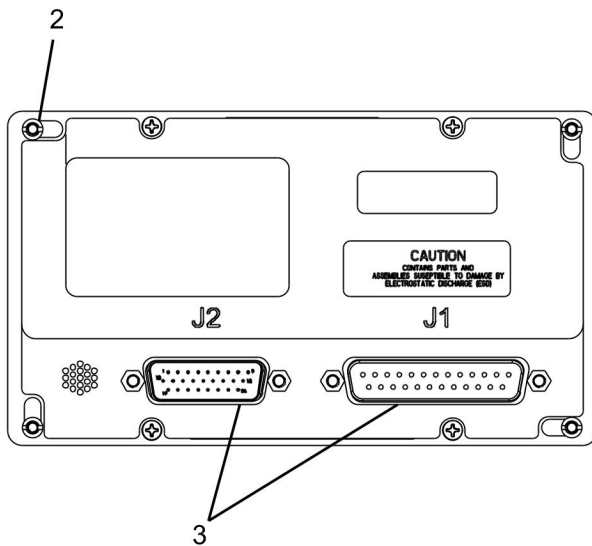
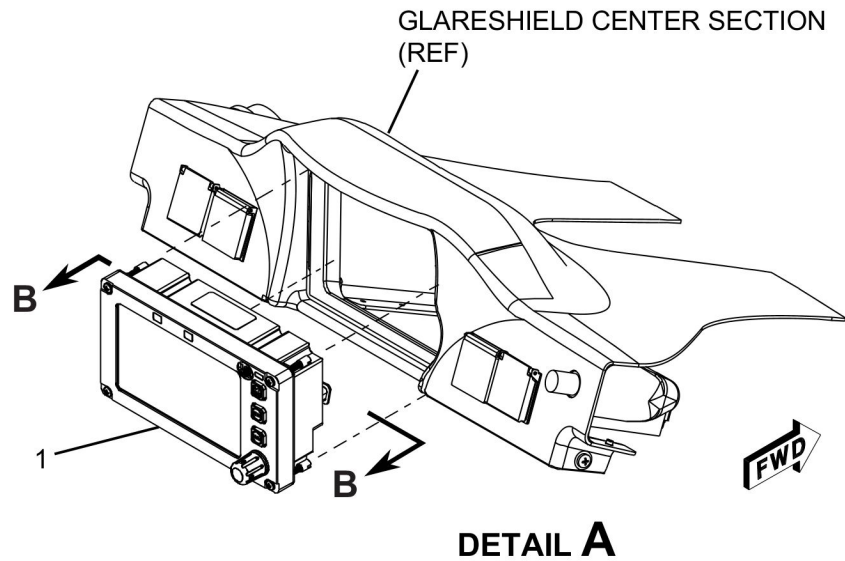
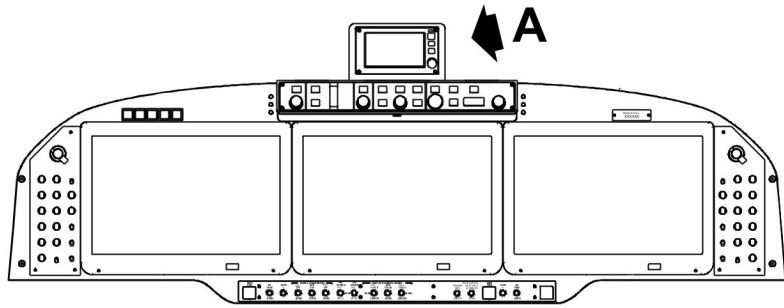
**B. Installation**

- (1) Remove the protective caps from the P1, P2, J1 and J2 electrical connectors (3).
- (2) Connect the P1 and P2 electrical connectors to the J1 and J2 connectors (3) on the SDU (1).
- (3) Place the SDU (1) into the glareshield opening and tighten the four captive fasteners (2) until the SDU is secure.
- (4) Engage the ATA MOTOR PWR and DISP circuit breakers on the copilot circuit breaker panel.
- (5) Remove the caution tag from the BAT switch.
- (6) Perform the STANDBY DISPLAY UNIT FUNCTIONAL TEST procedure (Ref. 34-25-03, 501).



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**VIEW B-B**

- 1. STANDBY DISPLAY UNIT
- 2. CAPTIVE FASTENER (4)
- 3. ELECTRICAL CONNECTORS (J1 AND J2)

Standby Display Unit Installation  
 Figure 401 (Sheet 1)



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**REMOTE STANDBY CONTROLLER, AUTO THROTTLE SYSTEM - DESCRIPTION AND OPERATION**  
(FL-1300, FL-1307 and After; FM-110 and After)

**1. Description**

The Remote Standby Controller (RSC) is a component of the auto throttle system, and is installed in the forward avionics bay, right side, top equipment rack. The RSC is equipped with pitot (Pt) and static (Ps) ports for connection to the aircraft pitot/static system, and two electrical connectors (Ref. Figure 1).

Along with the Standby Display Unit (SDU), the RSC provides an independent standby display system for primary flight parameters.

**2. Operation**

The primary function of the RSC is to interface with various sensors installed on the aircraft for data collection and processing. Engine data including torque and ITT temperatures are processed by the RSC and sent digitally to the SDU for display and for the control inputs to the auto throttle assembly for movement of the power levers. The RSC also computes aircraft attitude using internal gyroscopic sensors. The inertial sensors detect angular velocities that are used to estimate the attitude of the aircraft. The RSC uses additional aiding sensors to mitigate adverse effects induced by aircraft motion. The aiding information along with normal gyroscopic data provides the information for computations of the final displayed attitude, which is transmitted to the SDU for display.

**A. Engine Data**

- (1) Engine data including torque and ITT temperatures are processed by the RSC. The processed data is sent digitally to the SDU for display, and for the control inputs to the auto throttle assembly for movement of the power levers.

**B. Air Data**

- (1) The Pt (pitot) and Ps (static) ports on the RSC are connected to the aircraft pitot/static system for collection and processing of air data information such as altitude, airspeed and vertical speed for display on the SDU screen.

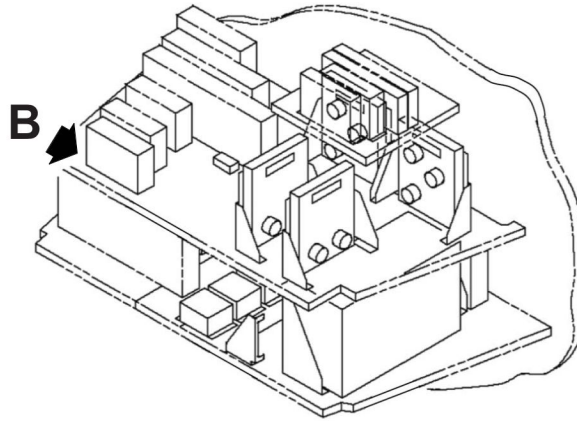
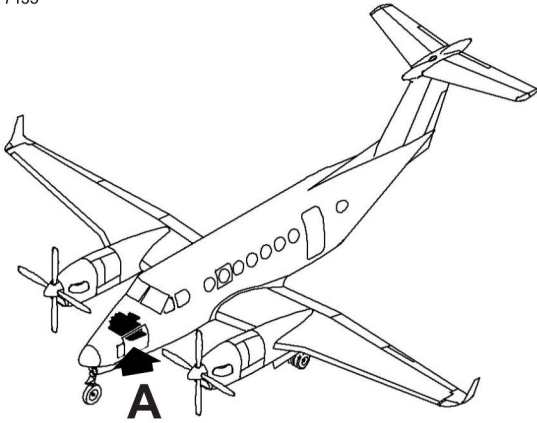
**C. Attitude and Heading Data**

- (1) The RSC receives magnetic heading data from the MAG-3000A Magnetometer. The magnetic heading data is combined with roll and pitch attitude information to compute the magnetic heading of the airplane. The use of heading information is not permitted in the following polar regions due to magnetic field unsuitability;
  - (a) North of 70° N Latitude
  - (b) South of 70° S Latitude
  - (c) North of 65° N Latitude between 75° and 120° W Longitude (Northern Canada)
  - (d) South of 55° S Latitude between 120° and 165° E Longitude (South of Australia and New Zealand)

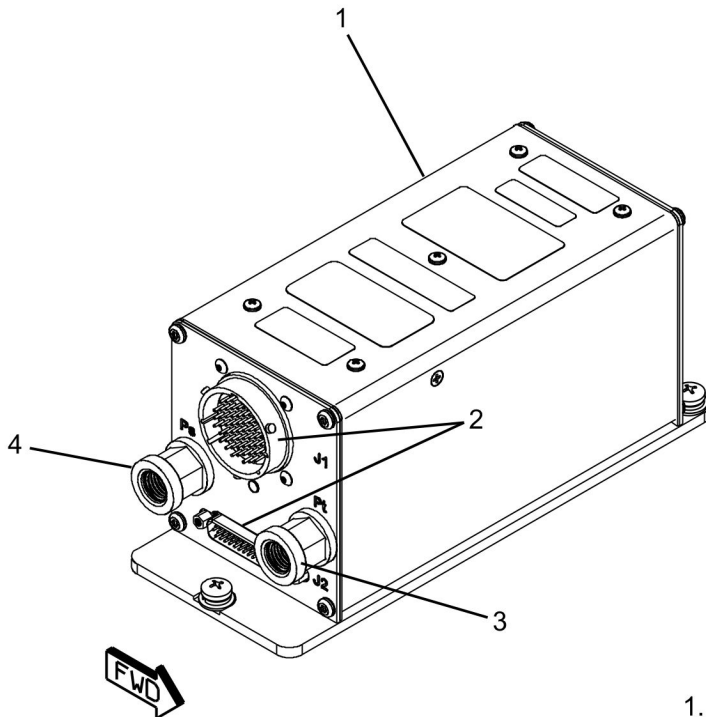
Attitude and air data information is still usable in these areas.

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**DETAIL A**



**DETAIL B**

- 1. REMOTE STANDBY CONTROLLER
- 2. ELECTRICAL CONNECTOR (2)
- 3. PITOT PORT
- 4. STATIC PORT

Remote Standby Controller  
Figure 1 (Sheet 1)



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**REMOTE STANDBY CONTROLLER, AUTO THROTTLE SYSTEM - REMOVAL/INSTALLATION**  
(FL-1300, FL-1307 and After; FM-110 and After)

**1. Remote Standby Controller**

**NOTE:** The Remote Standby Controller (RSC) is installed in the forward avionics bay, right side, middle equipment shelf (Ref. Figure 401).

**A. Removal**

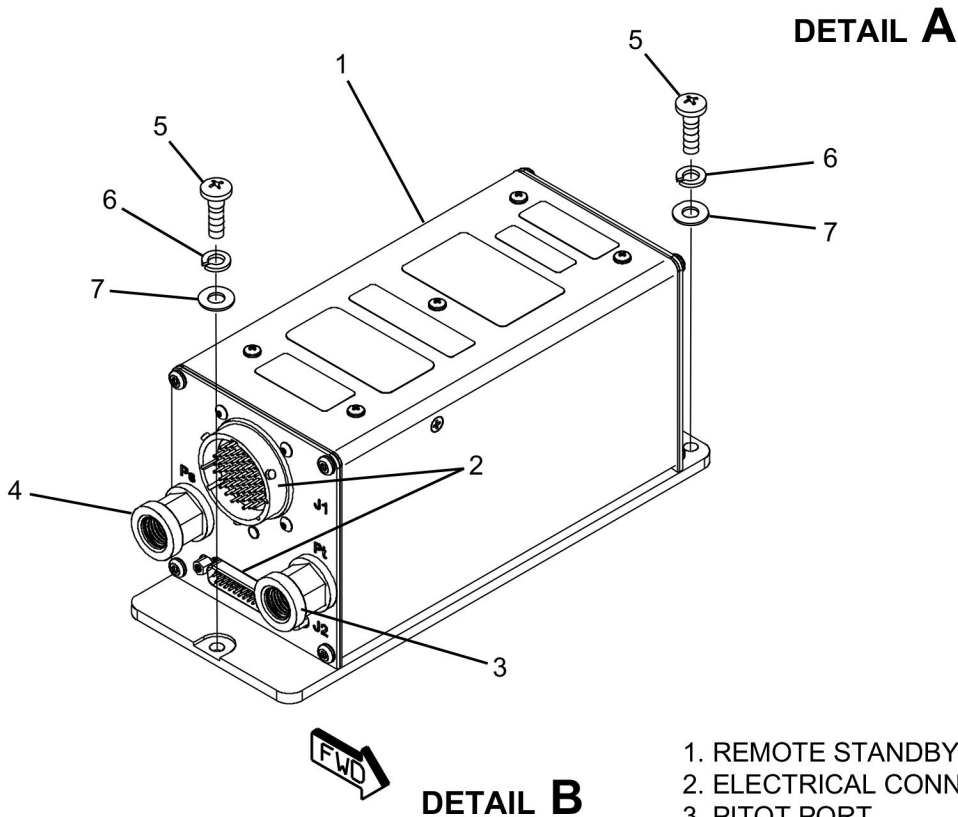
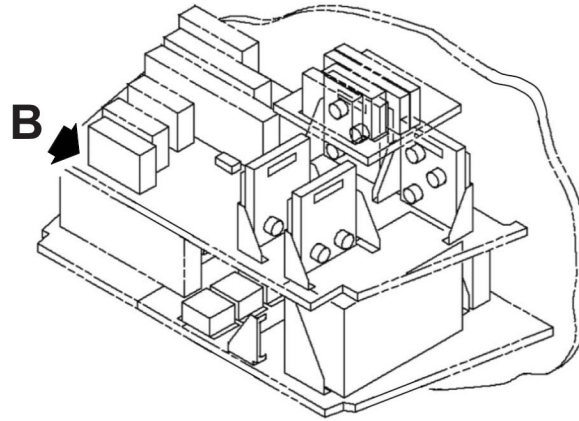
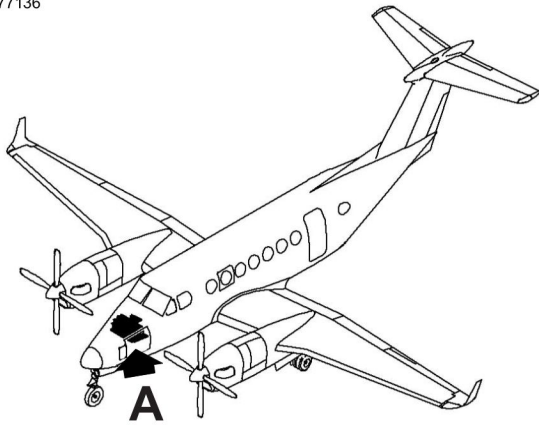
- (1) Make sure that the BAT switch is set to the OFF position. Tag the BAT switch with a caution tag indicating "DO NOT APPLY POWER".
- (2) Disengage the ATA MOTOR PWR and DISP circuit breakers on the copilot circuit breaker panel.
- (3) Remove the right side avionics access door 222CR (Ref. 06-50-00).
- (4) Tag and disconnect the Ps (Static) line from the RSC static (Ps) port (4). Install a plug in the open Ps line and a cap on the open Ps port (4) of the RSC.
- (5) Tag and disconnect the Pt (Pitot) line from the RSC pitot (Pt) port (3). Install a plug in the open Pt line and a cap on the open Pt port (3) of the RSC.
- (6) Disconnect the P1 and P2 electrical connectors from the J1 and J2 connectors (2) on the RSC (1).
- (7) Install protective caps on the P1, P2, J1 and J2 electrical connectors (2).
- (8) Remove the three screws (5), lockwashers (6) and flat washers (7) that attach the RSC (1) to the upper avionics shelf. Retain the screws and washers for installation.

**B. Installation**

- (1) Place the RSC (1) in its position on the upper equipment shelf in the forward avionics bay and install the three screws (5), lockwashers (6) and flat washers (7).
- (2) Remove the protective caps from the P1, P2, J1 and J2 electrical connectors (2).
- (3) Connect the P1 and P2 electrical connectors to the J1 and J2 connectors (2) on the RSC (1).
- (4) Remove the plugs from the Ps (Static) and Pt (Pitot) lines and the caps from the Pt and Ps ports (3) and (4) on the RSC (1).
- (5) Remove the tag and connect the Pt (Pitot) line to the pitot (Pt) port (3) on the RSC.
- (6) Remove the tag and connect the Ps (Static) line to the static (Ps) port (4) on the RSC.
- (7) Engage the ATA MOTOR PWR and DISP circuit breakers on the copilot circuit breaker panel.
- (8) Remove the caution tag from the BAT switch.
- (9) Perform the STANDBY DISPLAY UNIT/REMOTE STANDBY CONTROLLER FUNCTIONAL TEST procedure (Ref. 34-25-03, 501).
- (10) Install the right side avionics access door 222CR (Ref. 06-50-00).

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- 1. REMOTE STANDBY CONTROLLER
- 2. ELECTRICAL CONNECTOR (2)
- 3. PITOT PORT
- 4. STATIC PORT
- 5. SCREW (3)
- 6. LOCK WASHER (3)
- 7. WASHER (3)

Remote Standby Controller Installation  
 Figure 401 (Sheet 1)





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**STANDBY DISPLAY UNIT/REMOTE STANDBY CONTROLLER - ADJUSTMENT/TEST**  
**(FL-1300, FL-1307 and After; FM-110 and After)**

**1. Information**

Refer to Standard Practices - Airframe Chapter 20-14-00, 201, for information on tools and equipment referenced in Table 501. Refer to Standard Practices - Airframe Chapter 20-15-00, 201, for information on recommended materials referenced in Table 501.

Table 501. Tools/Equipment and Recommended Materials

ITEM	TOOLS AND EQUIPMENT	ITEM	RECOMMENDED MATERIALS
222	Laptop Computer		

**2. Standby Display Unit/Remote Standby Controller**

**A. Functional Test**

- (1) Perform the EXTERNAL POWER CONNECTING AND APPLYING procedure (Ref. 24-40-00, 201).
- (2) Set the STBY DISPLAY switch to ON. Make sure that the "ALIGNING" flag is displayed on the Standby Display Unit (SDU) during initialization. The "ALIGNING" flag will be removed once the SDU completes initialization.
- (3) Make sure that the "MAG" annunciation is not displayed on the SDU. If the "MAG" annunciation is displayed, perform the MAGNETOMETER CALIBRATION procedure before proceeding with the instructions in this section (Ref. 34-23-11, 501).
- (4) Make sure that the airspeed tape (1) is displayed on the left side of the SDU screen and indicates less than 30 knots.
- (5) Make sure that the pitch and roll attitude indication (4) and (5) is depicted as level.
- (6) Press the BARO key and use the multi-function knob to set the SDU barometric setting to the local altimeter setting.
- (7) Make sure that the altitude tape (2) is displayed on the right side of the SDU screen and indicates the approximate airport elevation.
- (8) Make sure that the heading information (HSI) (3) is displayed and indicates the approximate magnetic heading.
- (9) Make sure that the power control levers move forward then aft. This indicates that the auto throttle system is performing the initialization self test.
- (10) Make sure that none of the following red failure flags are displayed (Ref. Figure 501, Sheet 1):
  - (a) "SPD"
  - (b) "ATT"
  - (c) "ALT"
  - (d) "HDG"
  - (e) "VERT"
- (11) If any of the red failure flags are displayed, perform the AUTO THROTTLE TROUBLESHOOTING procedures (Ref. 22-30-00, 101).
- (12) Press the MENU key and make sure that the LATITUDE setting is set to the approximate latitude for the region of operation of the airplane. Adjust the LATITUDE setting as necessary.
- (13) For Remote Standby Controller (RSC) removal and installation only:
  - (a) Perform the PILOT PITOT SYSTEM LEAK TEST procedure (Ref. 34-10-01, 501).
  - (b) Perform the PILOT STATIC SYSTEM LEAK TEST procedure (Ref. 34-10-01, 501).
  - (c) Perform the COPILOT PITOT SYSTEM LEAK TEST procedure (Ref. 34-10-01, 501).

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(d) Perform the COPILOT STATIC SYSTEM LEAK TEST procedure (Ref. 34-10-01, 501).

**NOTE:** If the SDU or RSC was removed from the airplane and is being installed after repair and shipment, check the SDU and RSC software, Field Programmable Gate Array (FPGA), and Installation Configuration Module (ICM) versions on the "PART NUMBERS" page in the SDU menu to make sure they are all compliant with the Auto Throttle System STC requirements.

**NOTE:** If the SDU that is being installed is a different serial number than the SDU that was removed and has never been installed in the airplane, perform the SDU CALIBRATION procedure in this section.

**NOTE:** If the RSC or the ICM that is being installed is a different serial number than the RSC or ICM that was removed, perform the RSC CALIBRATION procedure in this section, or the ICM CALIBRATION procedure in this section.

B. Standby Display Unit (SDU) Calibration

(1) Bezel Key Brightness Adjustment

- (a) With the SDU powered on and initialized, push the MENU key to activate the service mode.
- (b) In the service mode, under the "CALIBRATION" option, select the "BEZEL ANALOG CAL" option. The SDU will enter the Adjustment Page.
- (c) When prompted by the SDU, use the multi-function knob to adjust the numeric value of the minimum brightness setting to the desired level. Push the multi-function knob to save the setting.
- (d) When prompted by the SDU, use the multi-function knob to adjust the numeric value of the maximum brightness setting to the desired level. Push the multi-function knob to save the setting.
- (e) Press and hold the MENU key to exit the calibration option.

(2) Display Brightness Range Adjustment

- (a) With the SDU powered on and initialized, push the MENU key to activate the service mode.
- (b) In the service mode, under the "CALIBRATION" option, select the "DISPLAY ANALOG CAL" option. The SDU will enter the Adjustment Page.
- (c) When prompted by the SDU, use the multi-function knob to adjust the numeric value of the minimum brightness setting to the desired level. Push the multi-function knob to save the setting.
- (d) When prompted by the SDU, use the multi-function knob to adjust the numeric value of the maximum brightness setting to the desired level. Push the multi-function knob to save the setting.
- (e) Press and hold the MENU key to exit the calibration option.

C. Remote Standby Controller (RSC) Attitude Calibration

**NOTE:** A laptop computer (222, Table 501) with the 7P-13938 service tool software installed is required to perform the RSC attitude calibration.

- (1) Perform the AIRPLANE LEVELING - THREE POINT JACKING procedure (Ref. 08-20-00, 201).
- (2) Perform the CONNECTING AND APPLYING EXTERNAL POWER procedure (Ref. 24-40-00, 201).
- (3) Connect the laptop computer (222, Table 501) to the maintenance connector port located on the lower aft side of the center pedestal.
- (4) On the laptop computer, open the 7P-13938 service tool.
- (5) In the "Select PC Com Port" field of the service tool, select the COM1 port option in the drop-down menu (Ref. Figure 501, Sheet 2).
- (6) Set the STBY DISPLAY switch to ON. Within 30 seconds, press the MENU key to access the main menu.
- (7) Use the multi-function knob on the SDU to scroll to the "SERV MODE" option.

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- (8) Push the multi-function knob to select the "SERV MODE" option.

**NOTE:** The next two steps must be performed within 30 seconds of each other to place the RSC into the service mode.

- (9) On the copilot circuit breaker panel, disengage and then re-engage the DISP circuit breaker to restart the SDU/RSC.
- (10) On the laptop computer, select the "Service Request" button at the top of the screen to send a service request message to the RSC (Ref. Figure 502, Sheet 1). The RSC will enter the service mode.
- (11) Select the "Check RSC Comm" button at the bottom of the screen. Make sure that the text output displayed on the laptop computer indicates that the RSC is in the service mode.

**NOTE:** If no text is displayed on the laptop computer, this indicates that the RSC is not powered on or that the interface between the RSC and the laptop computer is not connected. A counter of seconds of the duration that the RSC has been in the service mode should also be displayed.

- (12) Once the SDU and RSC are in the service mode, the SDU will display the service mode menu (Ref. Figure 502, Sheet 1).
- (13) On the laptop computer, select the "Calibrate Level Pitch and Roll" button. The calibration window opens (Ref. Figure 502, Sheet 2).
- (14) Select the "Start IMU Cal" button on the laptop computer (Ref. Figure 502, Sheet 2). Make sure that the "Pitch Offset" and "Roll Offset" display a value in less than one minute.

**NOTE:** The value displayed in the "Pitch Offset" and "Roll Offset" boxes should appear as a decimal value.

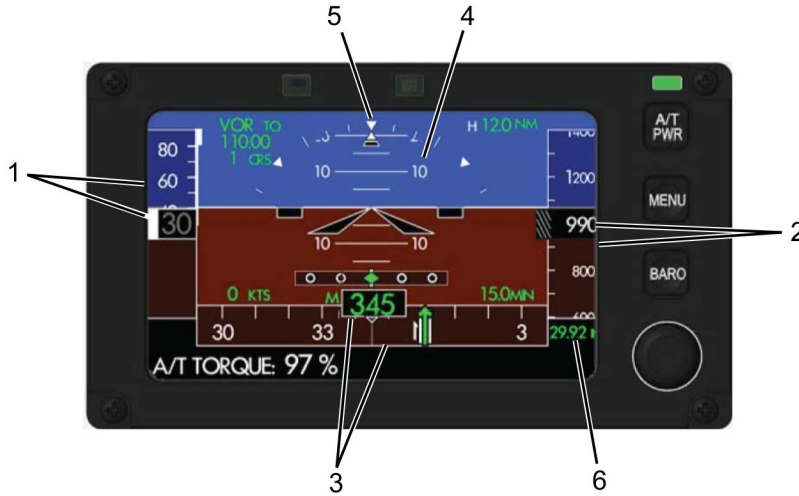
**EXAMPLE:** 3.1248 and 2.10

- (15) When the Pitch and Roll Offset values are displayed, the calibration is complete. Select the "Exit" button to exit the level pitch and roll calibration.
- (16) On the copilot circuit breaker panel, disengage and then re-engage the DISP circuit breaker to restart the SDU/RSC.
- (17) Compare the attitude indication on the SDU to that of the primary flight displays. All displays should indicate a level attitude.
- (18) Set the STBY Display switch to OFF.
- (19) Disconnect the laptop computer from the maintenance connector port.
- (20) Perform the DISCONNECTING EXTERNAL POWER procedure (Ref. 24-40-00, 201)
- (21) Lower the jacks until the full weight of the airplane is on the landing gear. Remove the jacks from under the airplane.

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1. AIRSPEED TAPE
2. ALTITUDE TAPE
3. HEADING (HSI) INDICATION
4. PITCH ATTITUDE INDICATION
5. ROLL INFORMATION
6. BARO (ALTIMETER) SETTING



SDU NORMAL DISPLAY



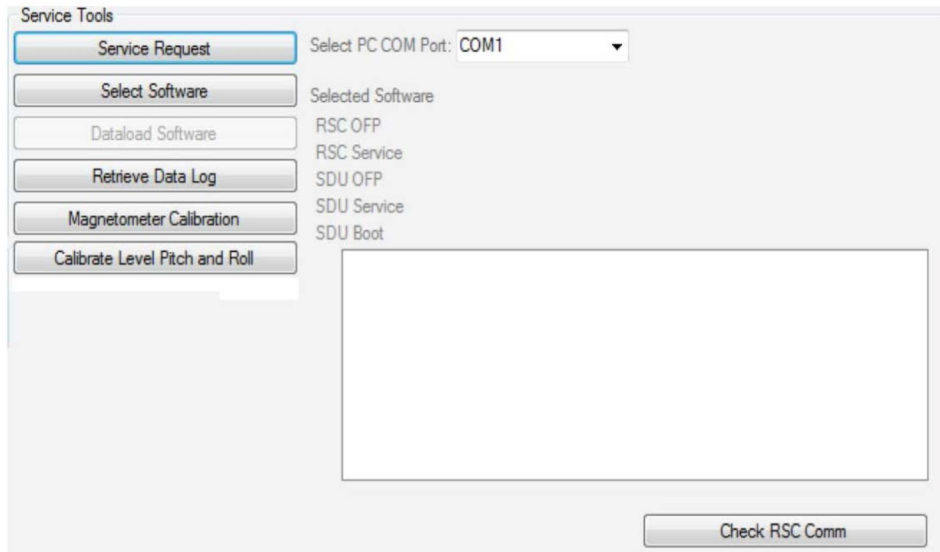
SDU FAILURE FLAGS

FAILURE FLAG	INVALID FEATURE
SPD	AIRSPEED TAPE
ATT	ATTITUDE (ADI)
ALT	ALTITUDE TAPE
HDG	HEADING (HSI)
VERT	VERTICAL SPEED

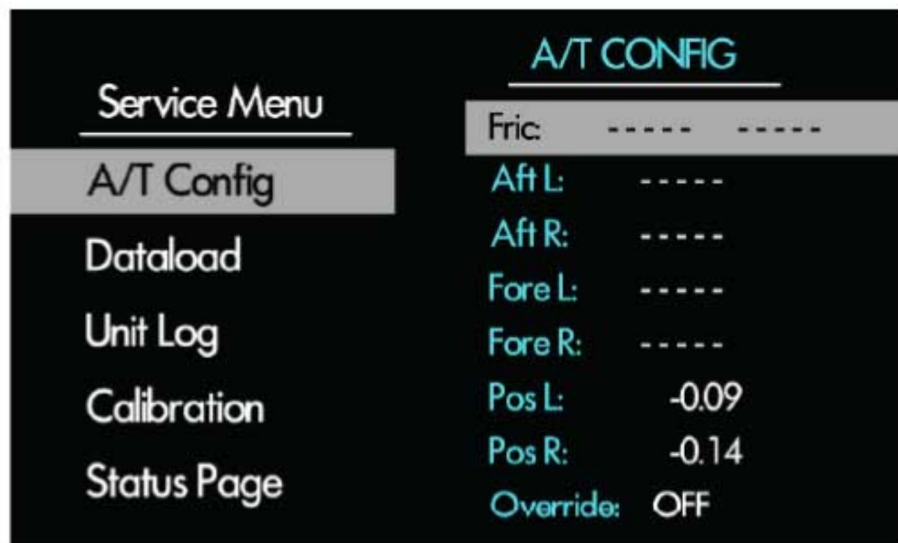
SDU Screen Displays  
 Figure 501 (Sheet 1)

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7P-13938 SERVICE TOOL SCREEN



SERVICE MODE MENU OPTIONS (SDU)

Service Tool and Service Menu Mode Screens  
 Figure 502 (Sheet 1)

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Manual Pitch 0.0 Start IMU Cal

Manual Roll 0.0

Actual Pitch Actual Roll

Pitch Offset Roll Offset

Exit

7P-13938 SERVICE TOOL CALIBRATION SCREEN

Service Tool and Service Menu Mode Screens  
Figure 502 (Sheet 2)



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**INSTALLATION CONFIGURATION MODULE - REMOVAL/INSTALLATION**  
(FL-1300, FL-1307 and After; FM-110 and After)

**1. Installation Configuration Module (ICM)**

**NOTE:** The Installation Configuration Module (ICM) is located inside the remote standby controller (RSC) 3425P92 connector back shell (Ref. Figure 401).

**A. Removal**

- (1) Perform the BATTERY POWER DISCONNECT procedure (Ref. 24-30-01, 201).
- (2) Remove the right side forward avionics access door 222CR (Ref. 06-50-00, 001).
- (3) Disconnect the 3425P92 electrical connector (2) from the J2 electrical connector on the remote standby controller (RSC) (Ref. Figure 401).
- (4) Remove the four screws (5) that attach the cover (4) to the back shell (3) (Ref. Figure 401).
- (5) De-pin the installation configuration module (ICM) wires from the electrical connector 3425P92 (2) (Ref. Figure 401).
- (6) Remove the ICM (1) from the back shell (3).
- (7) Install protective caps on the J2 and the 3425P92 electrical connectors.

**B. Installation**

- (1) Remove the protective caps from the J2 and the 3425P92 electrical connectors.
- (2) Position the ICM (1) in the back shell (3) (Ref. Figure 401).
- (3) Pin the configuration module wires into pins 29, 30, 43 and 44 in the 3425P92 electrical connector as shown (Ref. Figure 401, Sheet 2).

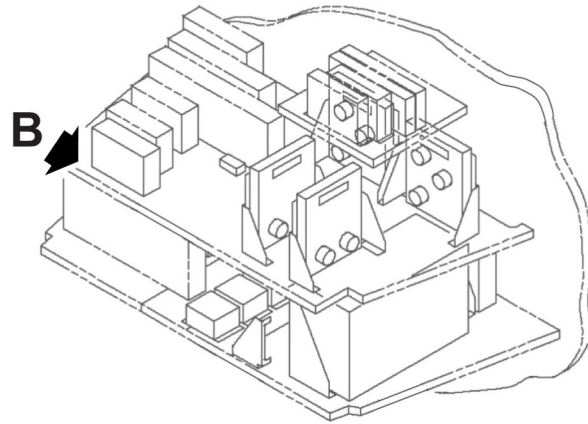
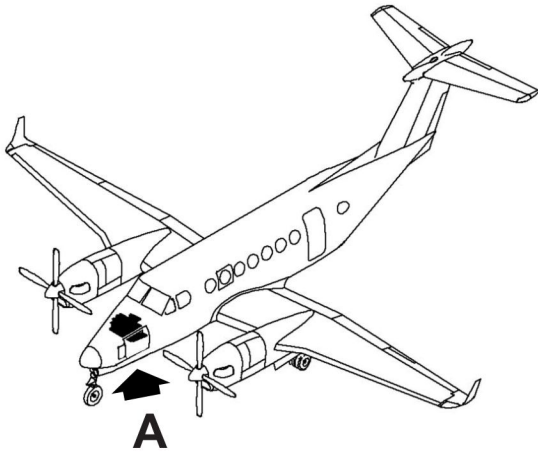
**CAUTION:** Make sure that the configuration module is not pinched during installation of the cover (4) on the back shell (3).

- (4) Place the cover (4) on the back shell (3) and install the four screws (5) (Ref. Figure 401, Detail B).
- (5) Connect the 3425P92 electrical connector (2) to the J2 electrical connector on the RSC.
- (6) Perform the BATTERY POWER CONNECT procedure (Ref. 24-30-01, 201).
- (7) Perform the STANDBY DISPLAY UNIT/REMOTE STANDBY CONTROLLER FUNCTIONAL TEST procedure (Ref. 34-25-03, 501).
- (8) Install fuselage access panel 222CR (Ref. 06-50-00, 001).

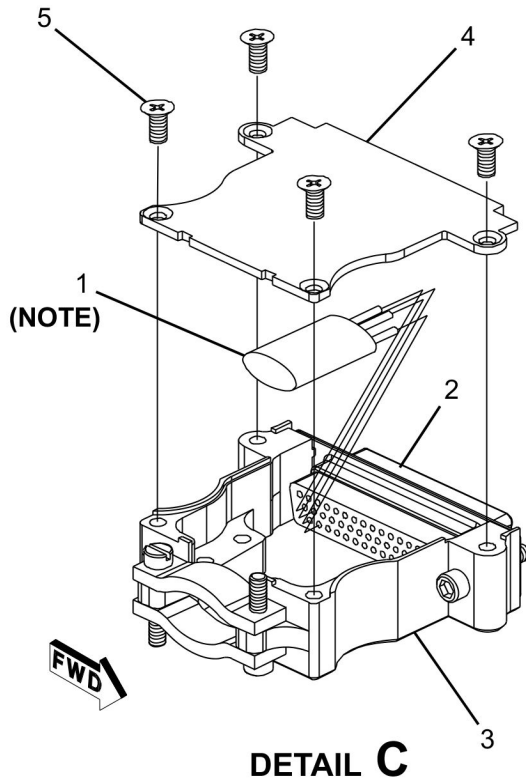


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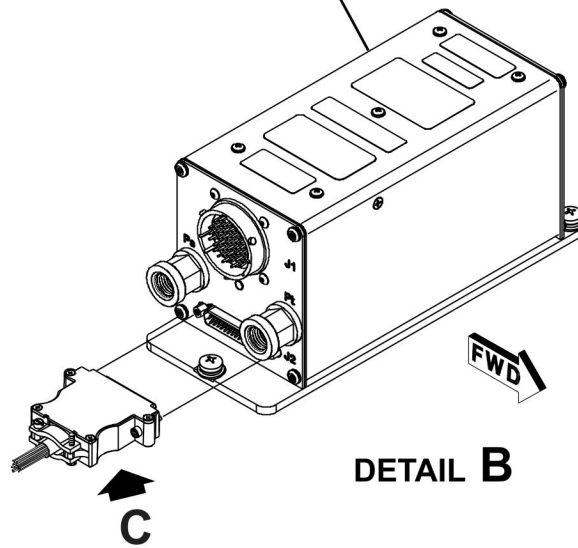


**DETAIL A**



**DETAIL C**

REMOTE STANDBY CONTROLLER  
 (REF)



**DETAIL B**

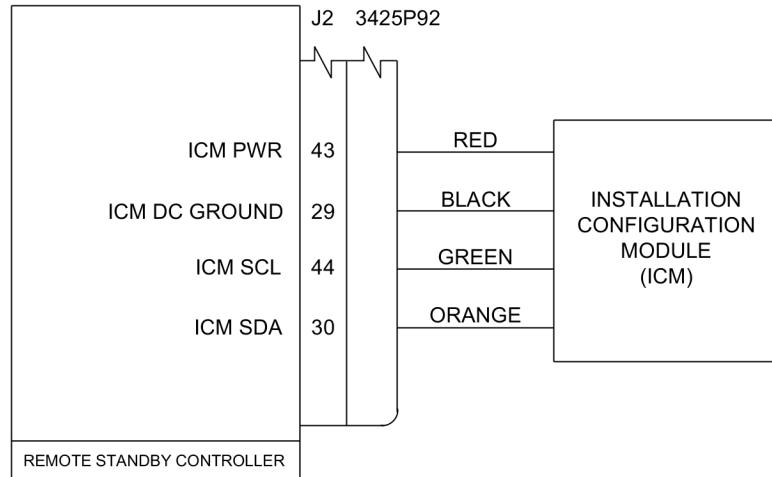
**NOTE:** PLACE THE CONFIGURATION MODULE (1) BETWEEN THE WIRES INSIDE THE BACK SHELL (3) TO PREVENT PINCHING THE MODULE WHEN THE COVER IS INSTALLED.

- 1. CONFIGURATION MODULE
- 2. ELECTRICAL CONNECTOR (3425P92)
- 3. BACK SHELL
- 4. COVER
- 5. SCREW (4 TOTAL)

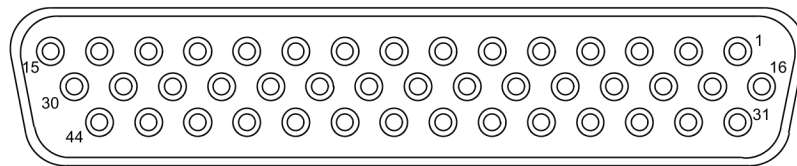
Installation Configuration Module Installation  
 Figure 401 (Sheet 1)

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INSTALLATION CONFIGURATION MODULE WIRING



REMOTE STANDBY CONTROLLER  
 J2 CONNECTOR PIN LOCATIONS

Configuration Module Wiring and Pin Locations  
 Figure 402 (Sheet 1)



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**POWER CONTROL SYSTEM - ADJUSTMENT/TEST**

**1. Power Control System**

**NOTE:** For airplanes equipped with an auto throttle system, refer to section 22-30-00, 501 for the adjustment and testing of the auto throttle system.

A. Rigging

**WARNING: Stabilized ground operation within the propeller restricted RPM range can generate high propeller stresses and result in fatigue damage to the propeller. This damage can lead to a reduced propeller fatigue life, propeller failure and loss of control of the airplane. The propeller restricted RPM range is defined in the airplane flight manual. Contact the airplane or propeller manufacturer for corrective actions if a propeller restriction or limitation is violated.**

- (1) Move the power levers to the IDLE detent. Install the 0.25 inch rig pin through the rigging hole in the lower left of the pedestal and through the two power lever bellcranks.

**NOTE:** If the bellcrank holes do not line up, adjust the pedestal interconnect rods until they do. Move the oxygen ready cable clear as required to install the rig pin.

- (2) Disconnect the rear clevis of the reversing cable from the cambox (Ref. Figure 501).
- (3) Loosen the screw in the cambox input lever clamp and install the rig pin (a #41 drill bit, 2.5 inches long) through the rigging hole in the cambox.
- (4) Make sure that the threaded end of the power control cable extends past the check hole in the rod end (lockwire should not pass through the check hole).
- (5) Position the cambox input lever so that the cambox input lever is horizontal and the top edge of the bearing rod end is flush with the head of the cambox input lever tightening bolt. If the power control cable is too short to allow horizontal placement of the input lever, move the u-bolt up to the next set of holes on the cable support bracket.
- (6) Adjust the interconnect rod until the distance between the center of the attach hole in each rod end is 8.28 inches. Connect the rod to the top hole in both the FCU arm and the cambox arm.
- (7) Remove the rig pin from the cambox and the pedestal bellcranks.
- (8) Adjust the deadband as follows:
  - (a) Make sure that the rear clevis of the reversing cable is disconnected from the cambox.

**CAUTION:** If the power lever does not move easily into full reverse, do not force it. Check that the reversing cable is disconnected or that the overcenter link is properly oriented with respect to the fuel control lever.

- (b) Pull the pedestal power lever into reverse far enough to move the FCU fuel control lever off the deadband stop surface (Ref. Figure 501, Detail A).
- (c) At the cambox, slowly move the input lever clockwise until the deadband stop screw just hits the stop (Ref. Figure 501, Detail B) (The screw should be against the stop such that a piece of paper between the screw and the stop will be held tightly and any further motion in the reverse direction will release the paper). At this position, the pedestal power lever should be approximately 0.25 inch aft of the GND FINE detent. Temporarily mark this position with a piece of tape labelled "MARK 1".
- (d) At the cambox, slowly move the input lever clockwise until the deadband stop screw is about to lift off the stop, but still grips the paper. At this position, the pedestal power lever should be approximately 0.25 inch forward of the IDLE detent. Temporarily mark this position with a piece of tape labelled "MARK 2".

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MAINTENANCE MANUAL

**CAUTION:** To avoid loss of sequence, do not rotate the serrated washer by more than 2 or 3 serrations at a time.

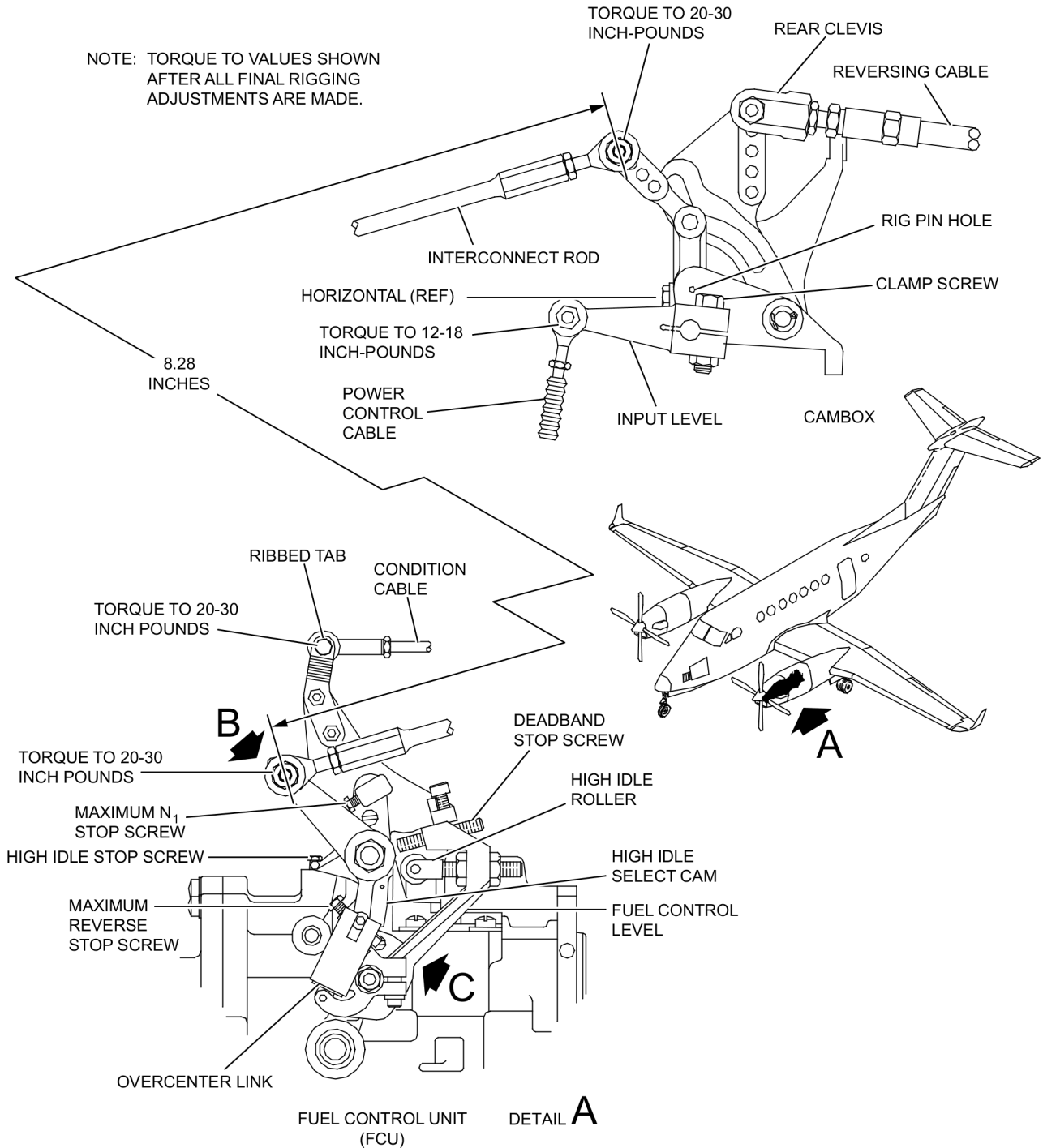
- (e) If necessary, adjust the deadband position forward or aft in the pedestal by changing the length of the interconnect rod or by rotating the serrated washer on the FCU arm shaft (Ref. Figure 501, Detail B). Make the first adjustments with the interconnect rod; if these adjustments are insufficient, then rotate the serrated washer. Rotating the rod shaft or the serrated washer clockwise moves the deadband forward; rotating either counterclockwise moves the deadband aft. Each serration on the washer moves the deadband by approximately 1/16 inch.

**NOTE:** Fine adjustments to the deadband position should be made with the interconnect rod. If more than two turns of the rod are required, the adjustment should be made with the serrated washer.

- (f) If necessary, adjust the deadband width by rotating the deadband stop screw on the FCU (Ref. Figure 501, Detail A). Rotate the screw clockwise to widen the deadband or counterclockwise to narrow the deadband. If it is impossible to position the deadband between the IDLE and GROUND FINE detents (because of cable play, for example), it is permissible to slightly widen the deadband. However, the deadband should not exceed more than approximately 0.25 inch of pedestal power lever travel forward of MARK 2 or aft of MARK 1.
- (9) Perform the GROUND RUN procedure (Ref 76-10-15, 601).

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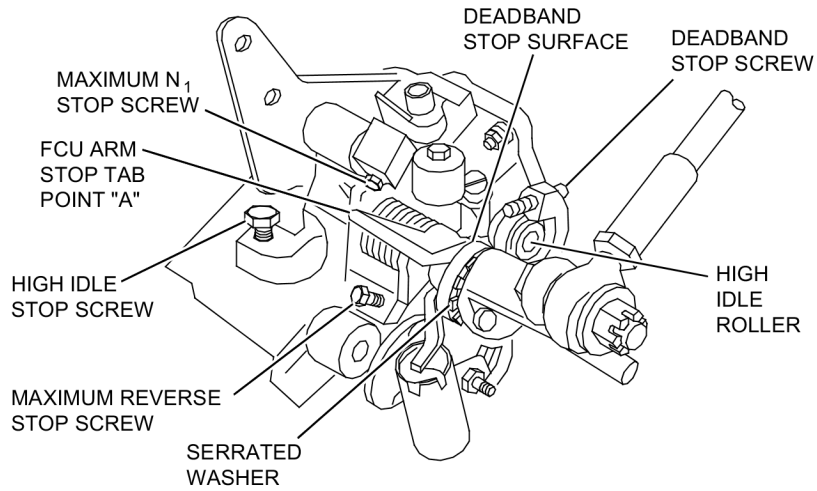


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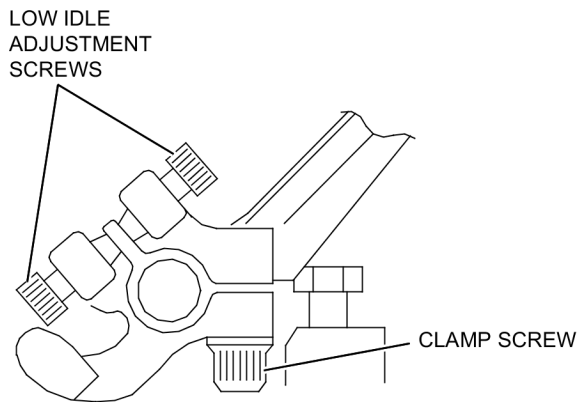
Power Control System Rigging  
 Figure 501 (Sheet 1)

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MAINTENANCE MANUAL

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DETAIL **B**



DETAIL **C**

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Power Control System Rigging  
Figure 501 (Sheet 2)





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MAINTENANCE MANUAL

**STARTING - GENERAL**

**1. Description**

The engine is equipped with a starter/generator which serves as a starter during engine cranking and as a generator after the engine is started. Under adverse starting conditions, a ground power unit (GPU) may be utilized. The GPU should have a capacity of 600 amperes (minimum intermittent) output and should be adjusted to produce  $28.25 \pm 0.25$  volts. A GPU should not be used unless the airplane battery has an indicated charge of at least 20 volts, and the battery should be ON to absorb transients present in some GPUS. If the battery does not indicate at least 20 volts, it must be charged or replaced before connecting the GPU to the airplane. The starter has operating limitations of 30 seconds on, 5 minutes off, 30 seconds on, 5 minutes off, 30 seconds on, then 30 minutes off. Refer to the Pilot's Operating Handbook and FAA Approved Airplane Flight Manual for complete starting instructions.

On airplanes FL-954, FL-1010, FI-1031 thru FL-1299, FL-1301 thru FL-1306 and FM-66 thru FM-109, when operating as a generator, the unit is capable of delivering 300 amps at  $28.25 \pm 0.25$  volts.

On airplanes FL-1300, FL-1307 and after, and FM-110 and after, when operating as a generator, the unit is capable of delivering 325 amps at  $28.25 \pm 0.25$  volts.

For a more complete description and operation or for maintenance of the system refer to Chapter 24-30-00, 001 or to the appropriate supplier publication.



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WICHITA, KANSAS 67277

**SUPPLEMENT NO: ICA-434-590169-0009-ICA-003**

**APPENDIX A: ILLUSTRATED PARTS CATALOG**

<b>B300/B300C Illustrated Parts Catalog (130-590031-315) and B300/B300C Illustrated Parts Catalog - Without CMS Installed (130-590031-9) Supplement</b>		
<b>Nomenclature</b>	<b>Part Number</b>	<b>Quantity</b>
<b>Environmental Control System</b>		
Cockpit Acoustic Muffler	1300520-10	1
- Flexible Duct, Cockpit Air	BWT12-1120540A	1
- Band Clamp	NAS1922-0175-1	1
- Sleeve	97-380001-0001	1
- Band Clamp	NAS1922-0175-1	2
Cabin Acoustic Muffler	1300520-10	1
- Sleeve	97-380001-0001	2
- Band Clamp	NAS1922-0175-1	4
Bleed Air Orifice Meter	1160110-1	2
- Bleed Air Check Valve	1310120-24	2
- Screw, Bleed Air Orifice Meter to Bleed Air Check Valve to Bleed Air Duct	MS35207-266	6 Per Bleed Air Orifice Meter
- Washer	NAS1149D0332J	12 Per Bleed Air Orifice Meter
- Nut	MS21042-3	6 Per Bleed Air Orifice Meter

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<b>B300/B300C Illustrated Parts Catalog (130-590031-315) and B300/B300C Illustrated Parts Catalog - Without CMS Installed (130-590031-9) Supplement</b>		
- O-Ring, Bleed Air Check Valve	2-030 S1224-70	2 Per Check Valve
Temperature Modulating Valve, LH	1300330-32	1
- Bolt, TMV to Structure	AN3-4A	4
- Washer	NAS1149C0332R	4
- Band Clamp, TMV to Bleed Air Inlet, Heat Exchanger Inlet and Outlet Flex Ducts	NAS1922-0175-1	3
Temperature Modulating Valve, RH	1300330-31	1
- Bolt, TMV to Structure	AN3-4A	4
- Washer	NAS1149C0332R	4
- Band Clamp, TMV to Bleed Air Inlet, Heat Exchanger Inlet and Outlet Flex Ducts	NAS1922-0175-1	3
Electric Heater Assembly	1305510-3	1
- Bolt, Heater to Mounting Base	NAS1351-3-20P	8
- Heater Outlet Transition Duct	130-550328-0001	1
- Screw, Heater Outlet Transition Duct to Heater Assy	AN525-10R10	5
- Transition Duct	130-550329-0001	1
- Glass Cloth Tape, Heater Outlet Transition Duct and Transition Duct Joint	838 (3M Company)	As Required
ECS Controller	1301610-1	1
- Nutplate	MS21059L06	2
- Rivet	132370AD3	4
- Mounting Bracket	130-550341-0021	1
- Screw, ECS Controller to Upper and Lower Mounting Brackets	MS35206-231	4
- Washer	NAS1149DN632J	4
<b>Vapor Cycle Cooling System</b>		
Compressor/Motor Assembly	1133880-20	1
- Compressor Mounting Bracket	1133883-42	2
- Vibration Isolator	AM-006-15	8
- Bolt	AN3C-6	16
- Lock Washer	MS35338-43	16
- Flat Washer	NAS1149C0363R	16
- Nut	MS21083-C3	16
- Screw, Compressor to Mounting Bracket	AN4C16	4
- Lock Washer	MS35338-44	4

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<b>B300/B300C Illustrated Parts Catalog (130-590031-315) and B300/B300C Illustrated Parts Catalog - Without CMS Installed (130-590031-9) Supplement</b>		
- Washer	NAS620C10	4
- Nut	MS21042L08	4
- Retaining Pin	AA55488-1	4
Condenser Module Assembly	1160410-1	2
- Bolt, Upper Mounting Bracket to Structure	AN3-4A	2
- Washer	NAS1149F0332P	2
- Bolt, Condenser to Lower Mounting Brackets	AN3-4A	4
- Washer	NAS1149F0332P	4
Condenser Blower	1270700-10	1
- Mounting Bracket	130-550334-0003	1
- Inboard and Outboard Band Clamp	MS21920-59	2
- Inlet Duct	1160430-1	1
- Screen	130-550332-0003	1
- Bolt	AN3-5A	8
- Washer	NAS1149F0332P	8
Receiver/Dryer	1134275-31	1
- Mounting Bracket	130-550326-0003	1
- Upper and Lower Band Clamp	NAS1922-0275-1	2
Cockpit Evaporator	1160400-1	1
- Bolt, Forward Mounting Brackets to Structure	AN3-4A	4
- Washer	NAS1149F0332P	4
- Bolt, Lower Inboard Mounting Bracket to Structure	AN3-4A	2
- Washer	NAS1149F0332P	2
- Bolt, Outboard Mounting Bracket	AN3-4A	1
- Washer	NAS1149D0332J	1
- Nut, Outboard Mounting Bracket Stud	MS21042-3	1
- Washer	NAS1149D0332J	1
- Screw, Forward Duct to Cockpit Evaporator	MS35206-246	4
- Lock Washer	MS35338-42	4
- Washer	NAS1149FN816P	4
Cabin Evaporator	1160420-1	1
- Bolt	AN3-4A	4
- Bolt	AN3-5A	4

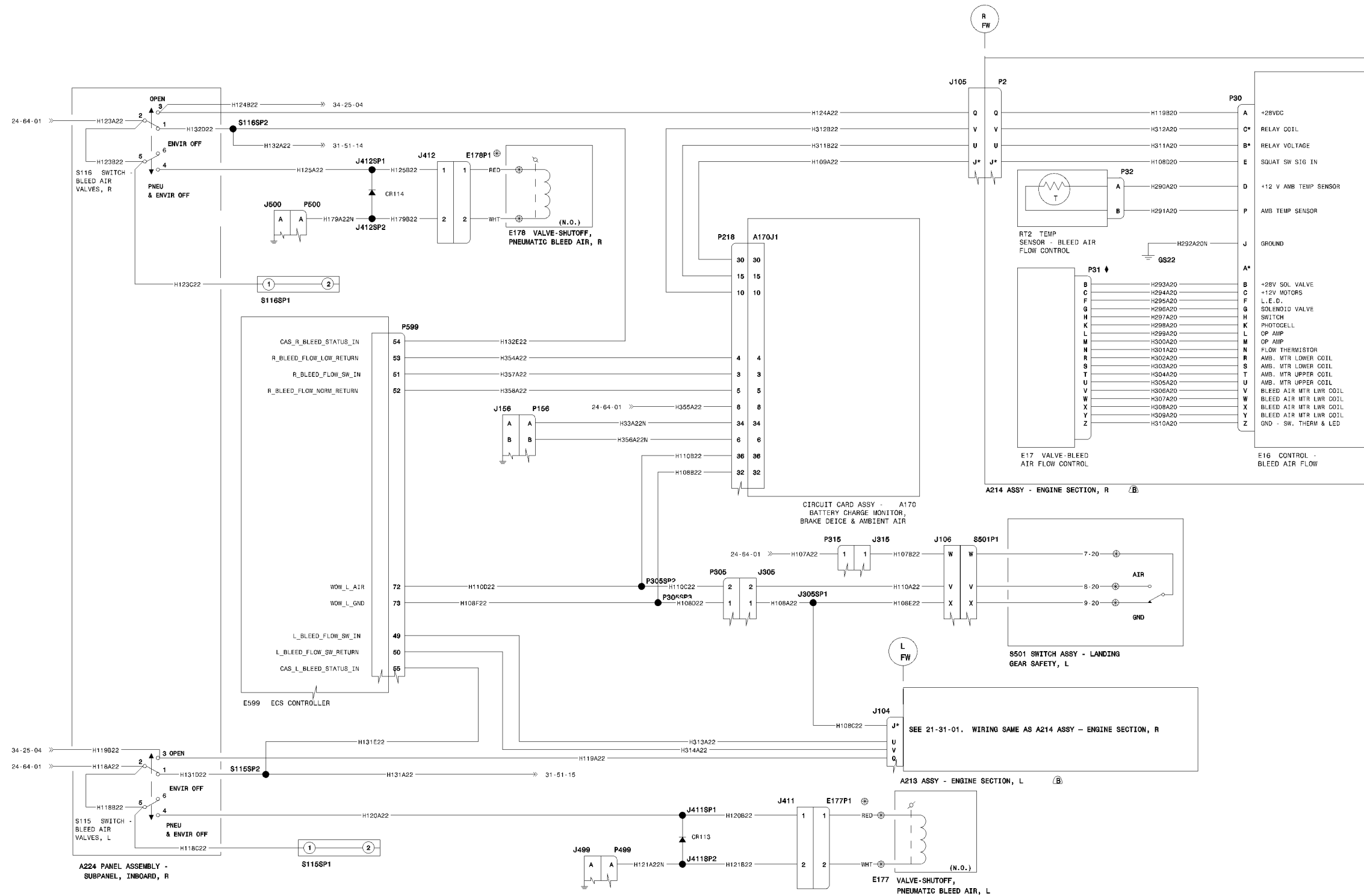
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<b>B300/B300C Illustrated Parts Catalog (130-590031-315) and B300/B300C Illustrated Parts Catalog - Without CMS Installed (130-590031-9) Supplement</b>		
- Washer (8)	NAS1149F0363P	8
<b>Auto Throttle System</b>		
Auto Throttle Assembly	9B-89005-3	1
- Screw, Auto Throttle Assembly to Pedestal Structure	MS24693-C271	4
- Bolt, Auto Throttle Actuator Arm to Throttle Cable Rod End	NAS1303-8	2
- Washer	AN960-10L	2
- Nut, Self Locking	MS21042L3	2
Standby Display Unit	9D-84180-7	1
- Captive Fastener (Contained Within Unit)	N/A	4
Remote Standby Controller	9B-84181-7	1
- Screw, RSC Mounting	MS27039-1-10	2
- Lock Washer	MS35338-43	2
- Washer	NAS1149F0332P	2
Installation Configuration Module (Contained Within 3425P92 Connector Backshell at RSC)	9B-13964-(X)	1
<b>325 Ampere Starter/Generator</b>		
Starter/Generator	130-389020-0001 (Supplier P/N MG94P-2)	2
- QAD Kit	130-389020-0003	1 Per Starter/Generator
- QAD Mounting Pad Assembly	KG94B-450-3	1 Per Starter/Generator
- V-Band Clamp	KG94P-123-1	1 Per Starter/Generator
- Gasket	ST3277-01	1 Per Starter/Generator
- Washer	NAS1149F0532P	4 Per Starter/Generator
- Nut	ST3066-11	4 Per Starter/Generator
- Packing	M83248/1-113	
- Adapter Assembly-Cooling	101-910062-11	2
- Band Clamp	QS100M96S	2

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**SUPPLEMENT NO: ICA-434-590169-0009-ICA-003**  
**APPENDIX B: WIRING DIAGRAM MANUAL**

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**



◆ PINS SHOWN ARE THE ONLY PINS USED IN A 28 PIN CONNECTOR.

ⓑ WIRE NUMBERS AND/OR REFERENCE DESIGNATORS ARE DUPLICATED FOR LEFT AND RIGHT (OR MULTIPLE USE) WIRE HARNESS INTERCHANGEABILITY.

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**BLEED AIR VALVES**  
 Figure 03 (Sheet 1)



**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
03		BLEED AIR VALVES	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
CR113	1N4007	. . DIODE (ZONE 521) . . . . .	V07688		01 R
CR114	1N4007	. . DIODE (ZONE 521) . . . . .	V07688		01 R
GS22		. . GROUND STUD (ZONE 410) . . . . .			RF R
-	MS25036-103	. . TERMINAL RING TONGUE . . . . .	V70898		03 R
J104	MS3450KT36-7S	. . RECEPTACLE NO. 2 FIREWALL, L (ZONE 521) . . . . .	V96906	FL0954 FL0954	01 R
				FL1010 FL1010	
				FL1031 FL1299	
				FL1301 FL1306	
				FM0066FM0109	
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	310-1620-091	. . TERMINAL SOCKET CONTACT . . . . .			32 R
-	350AS001N36-3	. . BACKSHELL . . . . .			01 R
-	D-436-0097	. . SEALING SLEEVE . . . . .	V06090		01 R
-	D-436-0098	. . SEALING SLEEVE . . . . .	V06090		02 R
-	L144	. . FIBERFRAX TAPE . . . . .			01 R
-	M39029/30-218	. . TERMINAL SOCKET CONTACT . . . . .	V81349		06 R
-	M39029/30-219	. . TERMINAL SOCKET CONTACT . . . . .	V81349		07 R
-	M39029/86-463	. . TERMINAL SOCKET CONTACT ALUMEL . . . . .	V81349		01 R
-	M39029/86-464	. . TERMINAL SOCKET CONTACT CHROMEL . . . . .	V81349		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		07 R
J105	MS3450KT36-7S	. . RECEPTACLE NO. 2 FIREWALL, R (ZONE 621) . . . . .	V96906	FL0954 FL0954	01 R
				FL1010 FL1010	
				FL1031 FL1299	
				FL1301 FL1306	
				FM0066FM0109	
-	310-1620-091	. . TERMINAL SOCKET CONTACT . . . . .			32 R
-	350AS001N36-3	. . BACKSHELL . . . . .			01 R
-	D-436-0097	. . SEALING SLEEVE . . . . .	V06090		01 R
-	D-436-0098	. . SEALING SLEEVE . . . . .	V06090		02 R
-	L144	. . FIBERFRAX TAPE . . . . .			01 R
-	M39029/30-218	. . TERMINAL SOCKET CONTACT . . . . .	V81349		06 R
-	M39029/30-219	. . TERMINAL SOCKET CONTACT . . . . .	V81349		07 R
-	M39029/86-463	. . TERMINAL SOCKET CONTACT ALUMEL . . . . .	V81349		01 R
-	M39029/86-464	. . TERMINAL SOCKET CONTACT CHROMEL . . . . .	V81349		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		07 R
J106	MS3474L16-26S	. . RECEPTACLE LDG GR SAFETY SW, L (ZONE 730) . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT . . . . .	V81349		AR R
-	M85049/52-1-16N	. . BACKSHELL . . . . .	V81349		01 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		16 R
-	M39029/5-117	. . TERMINAL SOCKET CONTACT . . . . .	V81349	FL1234 FL9999	01 R
				FM0098FM9999	
J305	205843-2	. . RECEPTACLE CROSSOVER FWD (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	205089-1	. . TERMINAL PIN CONTACT . . . . .	V06090		50 R
-	206138-8	. . BACKSHELL CROSSOVER FWD . . . . .	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M83519/2-7	. . SHIELD TERMINATION . . . . .	V81343		02 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
J305SP1	M81824/1-2	. . SPLICE . . . . .	V81343		01 R
J315	206151-2	. . RECEPTACLE, 23-37 CROSSOVER MAIN (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	206138-8	. . BACKSHELL . . . . .	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66099-4	. . TERMINAL PIN CONTACT . . . . .	V00779		03 R
-	66103-4	. . TERMINAL PIN CONTACT . . . . .	V00779		31 R
-	66602-2	. . TERMINAL PIN CONTACT . . . . .	V00779		01 R
-	D-436-0098	. . SEALING SLEEVE . . . . .	V06090		AR R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		01 R

- ITEM NOT ILLUSTRATED

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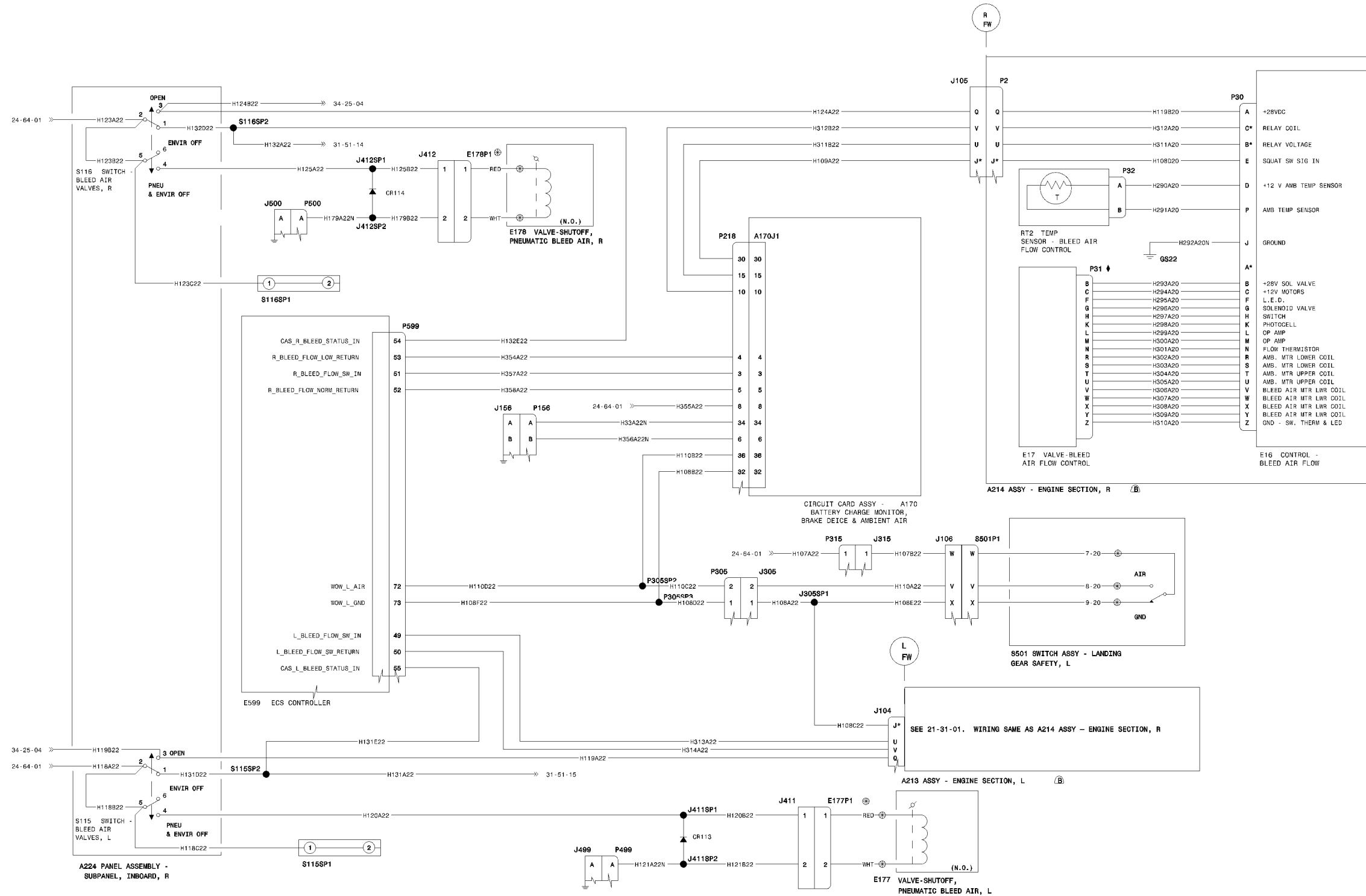
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Figure 03

Page 1

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**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**



◆ PINS SHOWN ARE THE ONLY PINS USED IN A 28 PIN CONNECTOR.

ⓑ WIRE NUMBERS AND/OR REFERENCE DESIGNATORS ARE DUPLICATED FOR LEFT AND RIGHT (OR MULTIPLE USE) WIRE HARNESS INTERCHANGEABILITY.

130-360211\_1\_2

BLEED AIR VALVES  
 Figure 03 (Sheet 1)

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
J411	1-480699-0	. RECEPTACLE (CAP), 2 CIRCUIT PNEUMATIC BLEED AIR SHUTOFF VLV, L (ZONE 521) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	350689-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779		02 R
J411SP1	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	106242C43	. . HEATSHRINK . . . . .	V70898		06 R
-	T500-20	. . TUBING TEFLON NATURAL . . . . .	V71002		01 R
J411SP2	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	T500-20	. . TUBING TEFLON NATURAL . . . . .	V71002		01 R
J412	1-480699-0	. RECEPTACLE (CAP), 2 CIRCUIT PNEUMATIC BLEED AIR SHUTOFF VLV, R (ZONE 621) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	350689-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779		02 R
J412SP1	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	106242C43	. . HEATSHRINK . . . . .	V70898		06 R
-	T500-20	. . TUBING TEFLON NATURAL . . . . .	V71002		01 R
J412SP2	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	T500-20	. . TUBING TEFLON NATURAL . . . . .	V71002		01 R
P156	200838-3	. RECEPTACLE, 34 POSITION RELAY GND, R (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	201224-1	. . BACKSHELL . . . . .	V00779		01 R
-	203618-1	. . JACKSCREW . . . . .	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		02 R
-	66105-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		27 R
P218	3-582307-1	. RECEPTACLE BATT CHARGE MONITOR BRAKE DEICE & AMBIENT AIR (ZONE 143). . . . .			01 R
-	101-364221-105	. . DECAL . . . . .	V70898		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	1-582156-9	. . KEYING CONTACT . . . . .	V00779		01 R
-	66010-2	. . TERMINAL CONTACT . . . . .	V00779		20 R
P2	MS3456KT36-7P	. PLUG NO. 2 FIREWALL (ZONE 410/420) . . . . .	V96906		01 R
-	131287-1	. . LABEL STOCK . . . . .			01 R
-	131545SG14-0040	. . FIRESLEEVE FLAME RESISTANCE . . . . .	V70898		01 R
-	360AS001Z13620H4	. . BACKSHELL . . . . .	V81349		01 R
-	D-436-0098	. . SEALING SLEEVE . . . . .	V06090		01 R
-	M39029/29-212	. . TERMINAL PIN CONTACT . . . . .	V81349		38 R
-	M39029/29-213	. . TERMINAL PIN CONTACT . . . . .	V81349		07 R
-	M39029/85-455	. . TERMINAL PIN CONTACT ALUMEL . . . . .	V81349		01 R
-	M39029/85-456	. . TERMINAL PIN CONTACT CHROMEL . . . . .	V81349		01 R
-	M83519/1-3	. . SHIELD TERMINATION . . . . .	V81343		03 R
-	M83519/1-4	. . SHIELD TERMINATION . . . . .	V81343		01 R
-	-49				
P305	205842-1	. PLUG CROSSOVER FWD (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	205090-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779		49 R
-	206138-8	. . BACKSHELL . . . . .	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M83519/2-7	. . SHIELD TERMINATION . . . . .	V81343		02 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
P305SP2	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
P305SP3	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
P30	MS3476L16-26S	. PLUG BLEED AIR FLOW CONT VLV (ZONE 410/420) . . . . .	V96906		01 R
-	131287-1	. . LABEL STOCK . . . . .			01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT . . . . .	V81349		26 R
-	M85049/51-1-16N	. . BACKSHELL 90 DEG . . . . .	V81349		01 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		01 R

- ITEM NOT ILLUSTRATED

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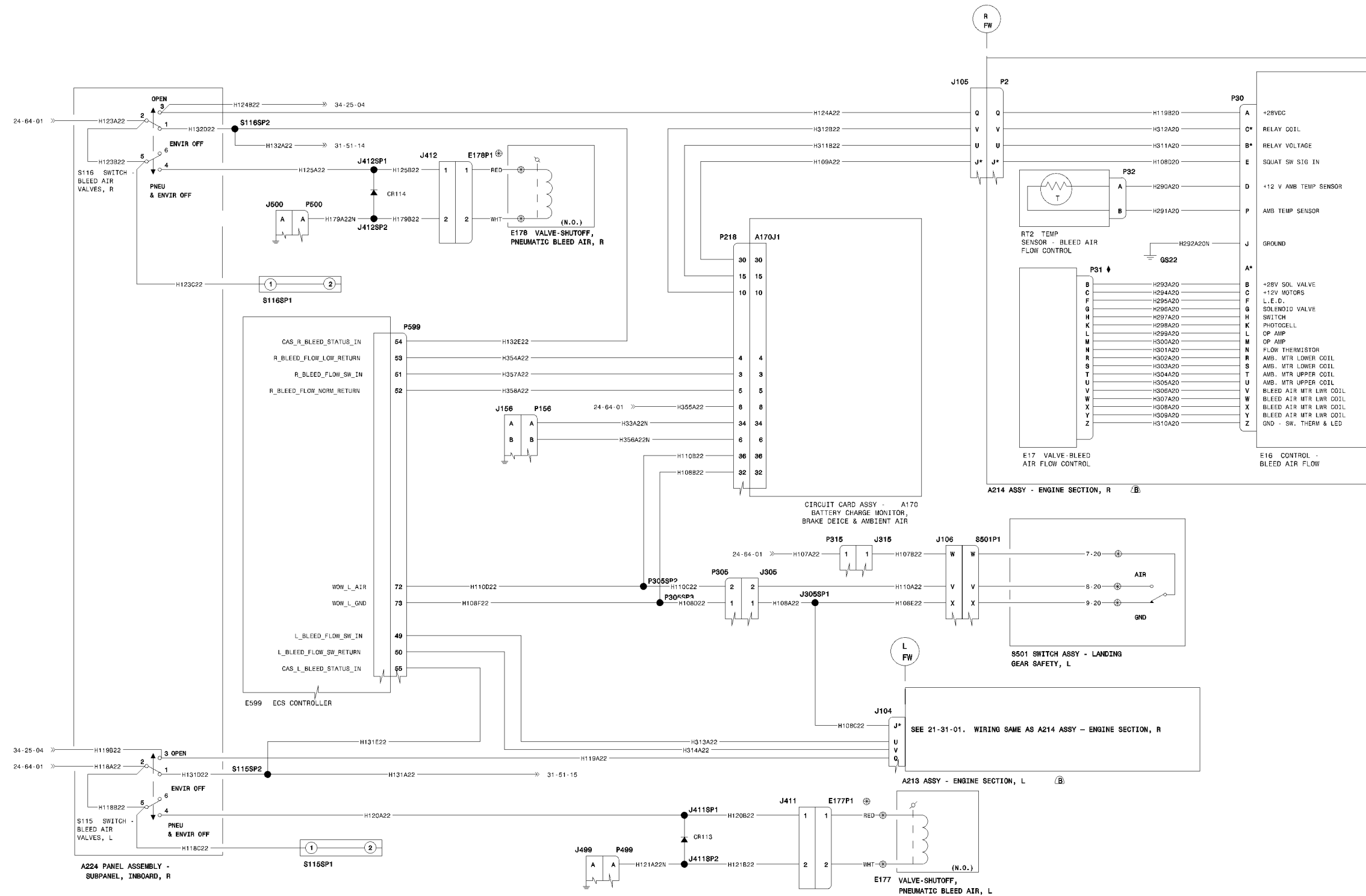
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Figure 03

Page 3

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**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**



◆ PINS SHOWN ARE THE ONLY PINS USED IN A 28 PIN CONNECTOR.

ⓑ WIRE NUMBERS AND/OR REFERENCE DESIGNATORS ARE DUPLICATED FOR LEFT AND RIGHT (OR MULTIPLE USE) WIRE HARNESS INTERCHANGEABILITY.

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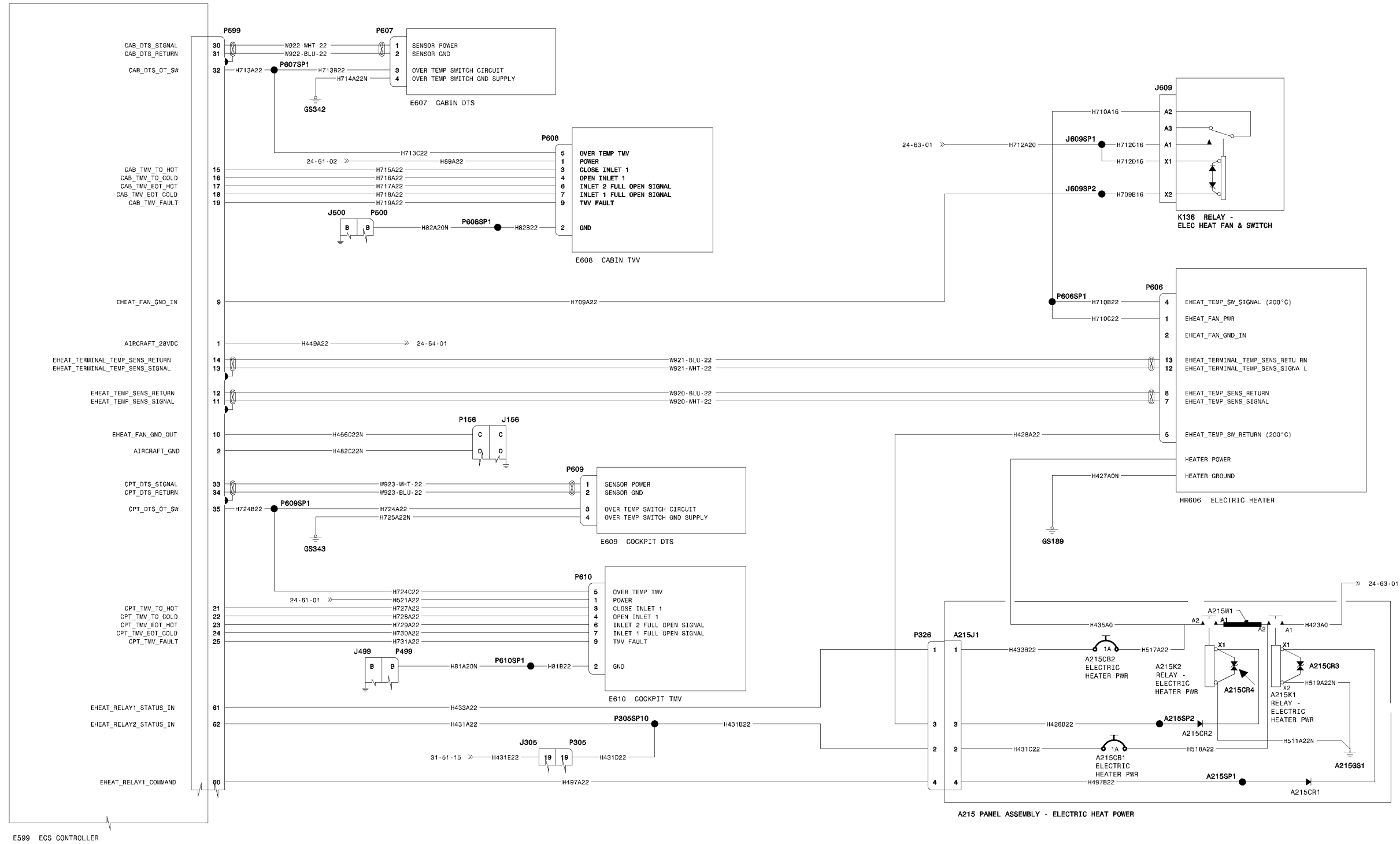
BLEED AIR VALVES  
 Figure 03 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
P315	206150-1	. PLUG, 23-37 CROSSOVER MAIN (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	206138-8	. . BACKSHELL	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT	V00779		04 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		31 R
-	D-436-0098	. . SEALING SLEEVE	V06090		01 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		01 R
P31	MS3476L16-26SW	. PLUG BLEED AIR FLOW CONT VLV (ZONE 410/420) . . . . .	V96906		01 R
-	131287-1	. . LABEL STOCK			01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT	V81349		26 R
-	M85049/51-1-16N	. . BACKSHELL 90 DEG	V81349		01 R
-	MS27488-20	. . SEALING PLUG	V96906		08 R
P32	MS3116E8-2S	. PLUG BLEED AIR FLOW CONT TEMP (ZONE 410/420). . . . .	V96906		01 R
-		. . BACKSHELL INCLUDED WITH CONNECTOR			RF R
-	131287-1	. . LABEL STOCK			01 R
-	SOLDER	. . TERMINAL CONTACT	V81349		02 R
P499	201298-3	. RECPTACLE 14 POSITION CENTER SECTION GND, L (ZONE 511) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	200686-1	. . BACKSHELL	V00779		01 R
-	203535-1	. . JACKSCREW	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT	V00779		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		AR R
P500	201298-3	. RECPTACLE 14 POSITION CENTER SECTION GND, R (ZONE 511) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	200686-1	. . BACKSHELL	V00779		01 R
-	203535-1	. . JACKSCREW	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT	V00779		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		12 R
P599	280-019S5H78MET	. CONNECTOR . . . . .		FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	289T005ME5D-TSK	. . STRAIN RELIEF STRAIGHT			01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/57-354	. . TERMINAL SOCKET CONTACT	V81349		AR R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		08 R
S115		. SWITCH, TOGGLE ONE POLE BLEED AIR CONT, L (ZONE 244) . . . . .			RF R
-	MS25036-102	. . TERMINAL RING TONGUE	V96906		05 R
S115SP1	M81714/11-22D	. TERMINAL JUNCTION BLOCK . . . . .	V81349	FL1140 FL9999 FM0076 FM9999	01 R
-	131741-1	. . MARKER BAND	V70898		01 R
-	M39029/1-100	. . TERMINAL PIN CONTACT	V81349		01 R
-	MS27488-22	. . SEALING PLUG	V96906		01 R
S115SP2	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
S116		. SWITCH, TOGGLE TWO POLE BLEED AIR CONT, R (ZONE 244). . . . .			RF R
-	MS25036-102	. . TERMINAL RING TONGUE	V96906		05 R
S116SP1	M81714/11-22D	. TERMINAL JUNCTION BLOCK . . . . .	V81349	FL1140 FL9999 FM0076 FM9999	01 R
-	131741-1	. . MARKER BAND	V70898		01 R
-	M39029/1-100	. . TERMINAL PIN CONTACT	V81349		01 R
-	MS27488-22	. . SEALING PLUG	V96906		01 R
S116SP2	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R

- ITEM NOT ILLUSTRATED

**BEECHCRAFT®  
MODEL B300/B300C FUSION  
WIRING DIAGRAM MANUAL**



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ELECTRIC HEATING  
Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG	REF	PART NUMBER	NOMENCLATURE	EFFECTIVITY	UNITS
DES				FROM TO	PER ASSY
		1 2 3 4 5 6 7			
02			ELECTRIC HEATING	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	
A215K1			. RELAY (200 AMP) SPST ELECT HEATER PWR (ZONE 132) . . . . .		RF R
-	131741-1		. . MARKER BAND . . . . . V70898		01 R
-	MS25036-127		. . TERMINAL RING TONGUE . . . . . V70898		01 R
A215K2			. RELAY (200 AMP) SPST ELECT HEATER PWR (ZONE 132) . . . . .		RF R
-	131741-1		. . MARKER BAND . . . . . V70898		01 R
-	MS25036-127		. . TERMINAL RING TONGUE . . . . . V70898		01 R
GS189			. GROUND STUD FS 107.00 RBL 15.38 (ZONE 131) . . . . .		RF R
-	131741-1		. . MARKER BAND . . . . . V70898		01 R
-	MS25036-126		. . TERMINAL RING TONGUE . . . . . V70898		01 R
GS342			. GROUND STUD . . . . .	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	RF R
-	131741-1		. . MARKER BAND . . . . . V70898		01 R
-	MS25036-103		. . TERMINAL RING TONGUE . . . . . V70898		01 R
GS343			. GROUND STUD . . . . .	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	RF R
-	131741-1		. . MARKER BAND . . . . . V70898		01 R
-	MS25036-103		. . TERMINAL RING TONGUE . . . . . V70898		01 R
J305	205843-2		. RECEPTACLE CROSSOVER FWD (ZONE 143) . . . . . V00779		01 R
-	131741-3		. . MARKER BAND . . . . . V70898		01 R
-	205089-1		. . TERMINAL PIN CONTACT . . . . . V06090		50 R
-	206138-8		. . BACKSHELL CROSSOVER FWD . . . . . V06090		01 R
-	52672		. . FIRE RESISTANT TAPE . . . . . V02988		01 R
-	M83519/2-7		. . SHIELD TERMINATION . . . . . V81343		02 R
-	M83519/2-8		. . SHIELD TERMINATION . . . . . V81343		02 R
J609	SO-1063-9033		. RELAY SOCKET COCKPIT BLOWER RELAY (ZONE 141) . . . . . V35344		01 R
-	001-9007-000		. . TERMINAL CONTACT . . . . .		02 R
-	001-9007-001		. . TERMINAL CONTACT . . . . .		03 R
-	131741-3		. . MARKER BAND . . . . . V70898		01 R
-	JC-D1N		. . RELAY (25 AMP) SPDT . . . . .		01 R
J609SP1	M81824/1-3		. SPLICE . . . . . V81343		01 R
J609SP2	M81824/1-2		. SPLICE . . . . . V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
P156	200838-3		. RECEPTACLE, 34 POSITION RELAY GND, R (ZONE 143) . . . . . V00779		01 R
-	131741-3		. . MARKER BAND . . . . . V70898		01 R
-	201224-1		. . BACKSHELL . . . . . V00779		01 R
-	203618-1		. . JACKSCREW . . . . . V00779		02 R
-	52672		. . FIRE RESISTANT TAPE . . . . . V02988		01 R
-	66101-4		. . TERMINAL SOCKET CONTACT . . . . . V00779		02 R
-	66105-4		. . TERMINAL SOCKET CONTACT . . . . . V00779		27 R
P305	205842-1		. PLUG CROSSOVER FWD (ZONE 143) . . . . . V00779		01 R
-	131741-3		. . MARKER BAND . . . . . V70898		01 R
-	205090-1		. . TERMINAL SOCKET CONTACT . . . . . V00779		49 R
-	206138-8		. . BACKSHELL . . . . . V06090		01 R
-	52672		. . FIRE RESISTANT TAPE . . . . . V02988		01 R
-	M83519/2-7		. . SHIELD TERMINATION . . . . . V81343		02 R
-	M83519/2-8		. . SHIELD TERMINATION . . . . . V81343		02 R
P305SP10	M81824/1-2		. SPLICE . . . . . V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
P326	207152-1		. PLUG, 6 POSITION ELEC HEAT PWR PNL FWD (ZONE 132) . . . . . V00779		01 R
-	131741-3		. . MARKER BAND . . . . . V70898		01 R
-	66105-4		. . TERMINAL SOCKET CONTACT . . . . . V00779		04 R

- ITEM NOT ILLUSTRATED

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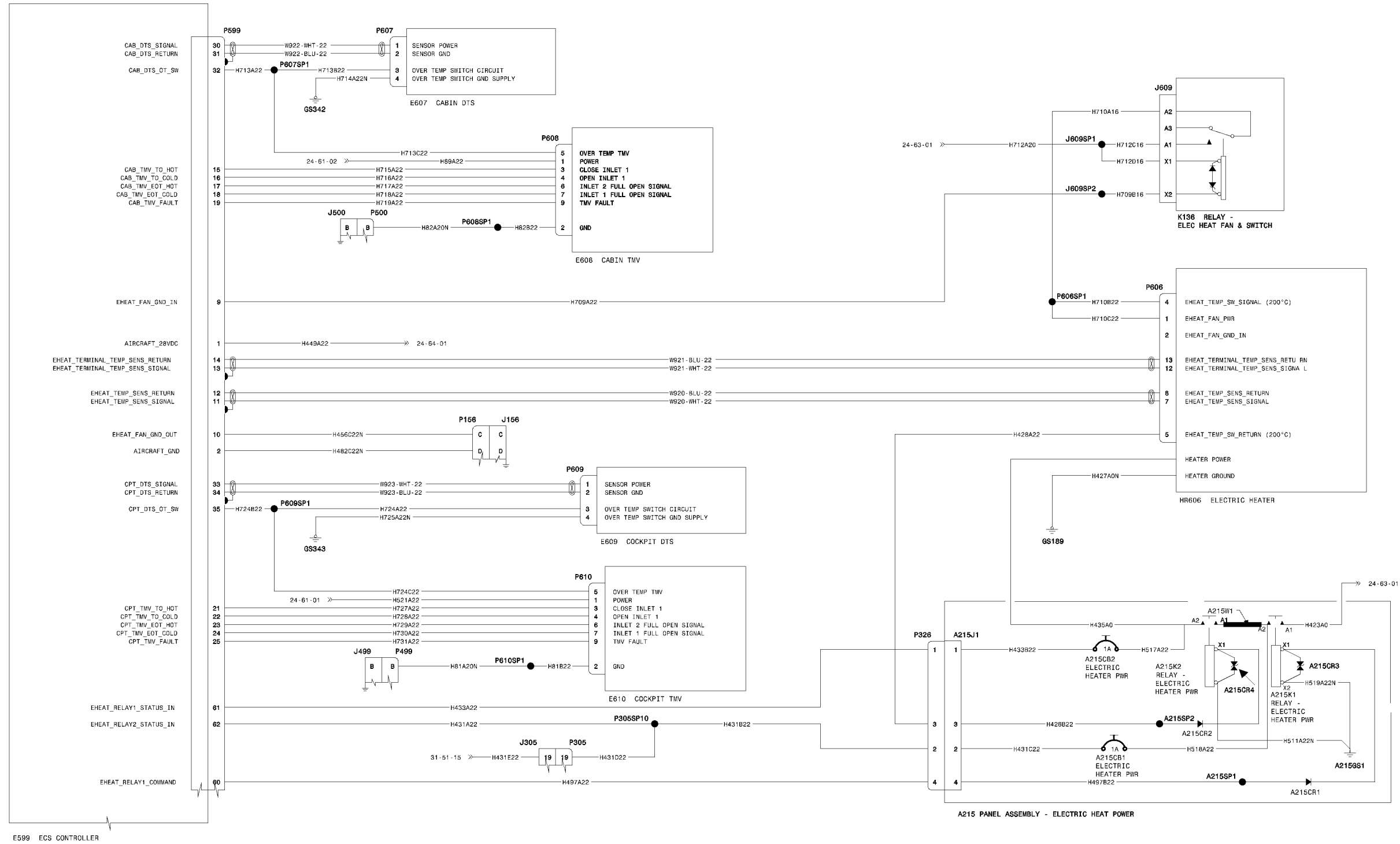
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Figure 02

Page 1

**21-41-01** Dec 02/2022

**BEECHCRAFT®  
MODEL B300/B300C FUSION  
WIRING DIAGRAM MANUAL**



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ELECTRIC HEATING  
Figure 02 (Sheet 1)

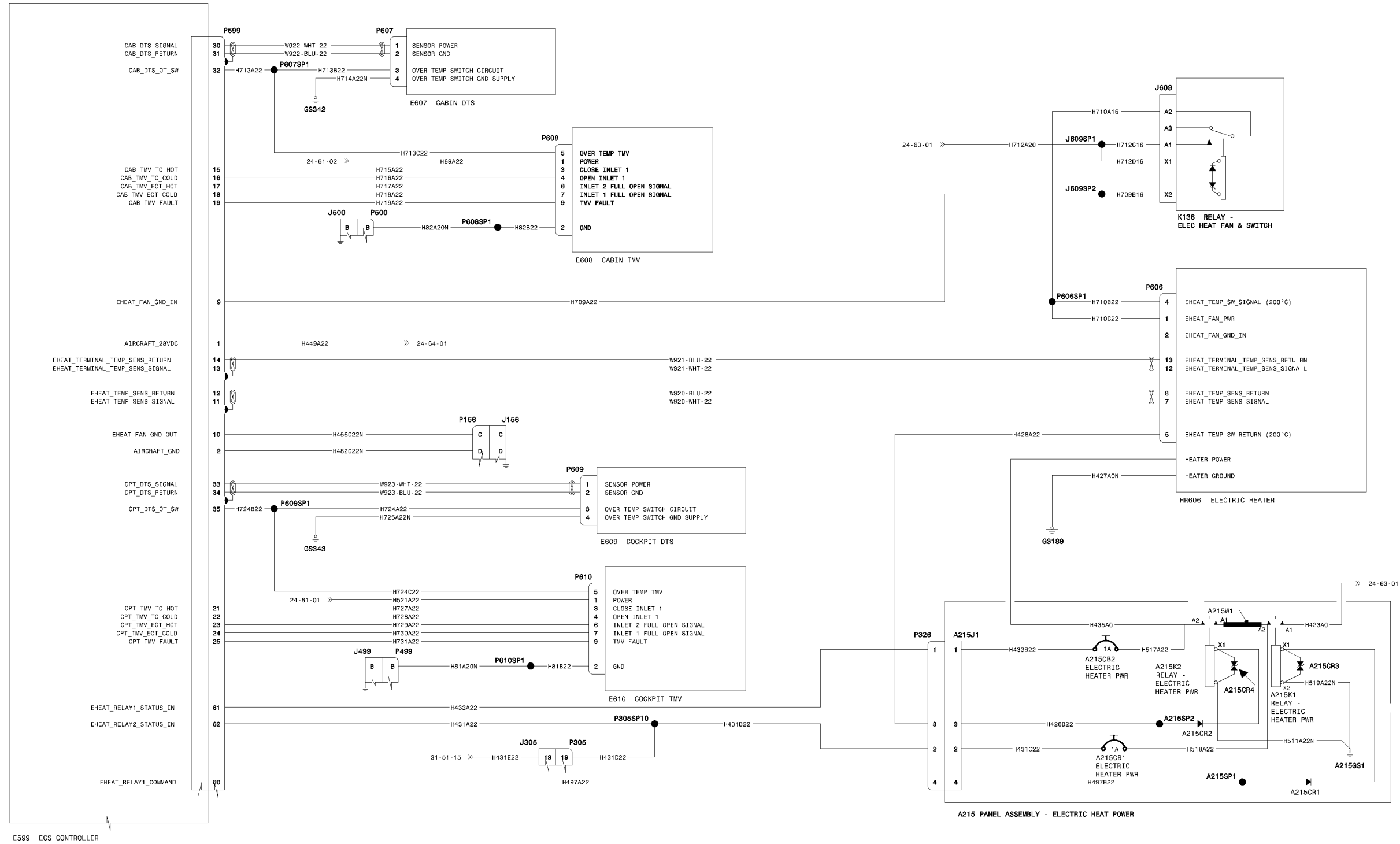


BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
P499	201298-3	. RECPTACLE 14 POSITION CENTER SECTION GND, L (ZONE 511) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	200686-1	. . BACKSHELL . . . . .	V00779		01 R
-	203535-1	. . JACKSCREW . . . . .	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		AR R
P500	201298-3	. RECPTACLE 14 POSITION CENTER SECTION GND, R (ZONE 511) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	200686-1	. . BACKSHELL . . . . .	V00779		01 R
-	203535-1	. . JACKSCREW . . . . .	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		12 R
P599	280-019S5H78MET	. CONNECTOR . . . . .		FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	289T007ME5C-TSK	. . STRAIN RELIEF STRAIGHT . . . . .			01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/63-368	. . TERMINAL SOCKET CONTACT . . . . .	V81349		AR R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		08 R
P606	D38999/26WB35SN	. PLUG . . . . .	V81349	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	D-436-0097	. . SEALING SLEEVE . . . . .	V06090		02 R
-	M39029/56-348	. . TERMINAL SOCKET CONTACT . . . . .	V81349		07 R
-	M85049/38S11W	. . BACKSHELL . . . . .	V81349		01 R
P606SP1	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
P607	D38999/26FA35SN	. PLUG . . . . .	V81349	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	D-436-0097	. . SEALING SLEEVE . . . . .	V06090		01 R
-	M39029/56-348	. . TERMINAL SOCKET CONTACT . . . . .	V81349		04 R
-	M85049/38S-9N	. . STRAIN RELIEF . . . . .	V81349		01 R
P607SP1	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
P608	D38999/26FB35SN	. PLUG . . . . .	V81349	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/56-348	. . TERMINAL SOCKET CONTACT . . . . .	V81349		08 R
-	M85049/38S11N	. . BACKSHELL . . . . .	V81349		01 R
P608SP1	M81824/1-1	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
P609	D38999/26FA35SN	. PLUG . . . . .	V81349	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	D-436-0097	. . SEALING SLEEVE . . . . .	V06090		01 R
-	M39029/56-348	. . TERMINAL SOCKET CONTACT . . . . .	V81349		04 R
-	M85049/38S-9N	. . STRAIN RELIEF . . . . .	V81349		01 R

- ITEM NOT ILLUSTRATED

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MODEL B300/B300C FUSION  
WIRING DIAGRAM MANUAL**



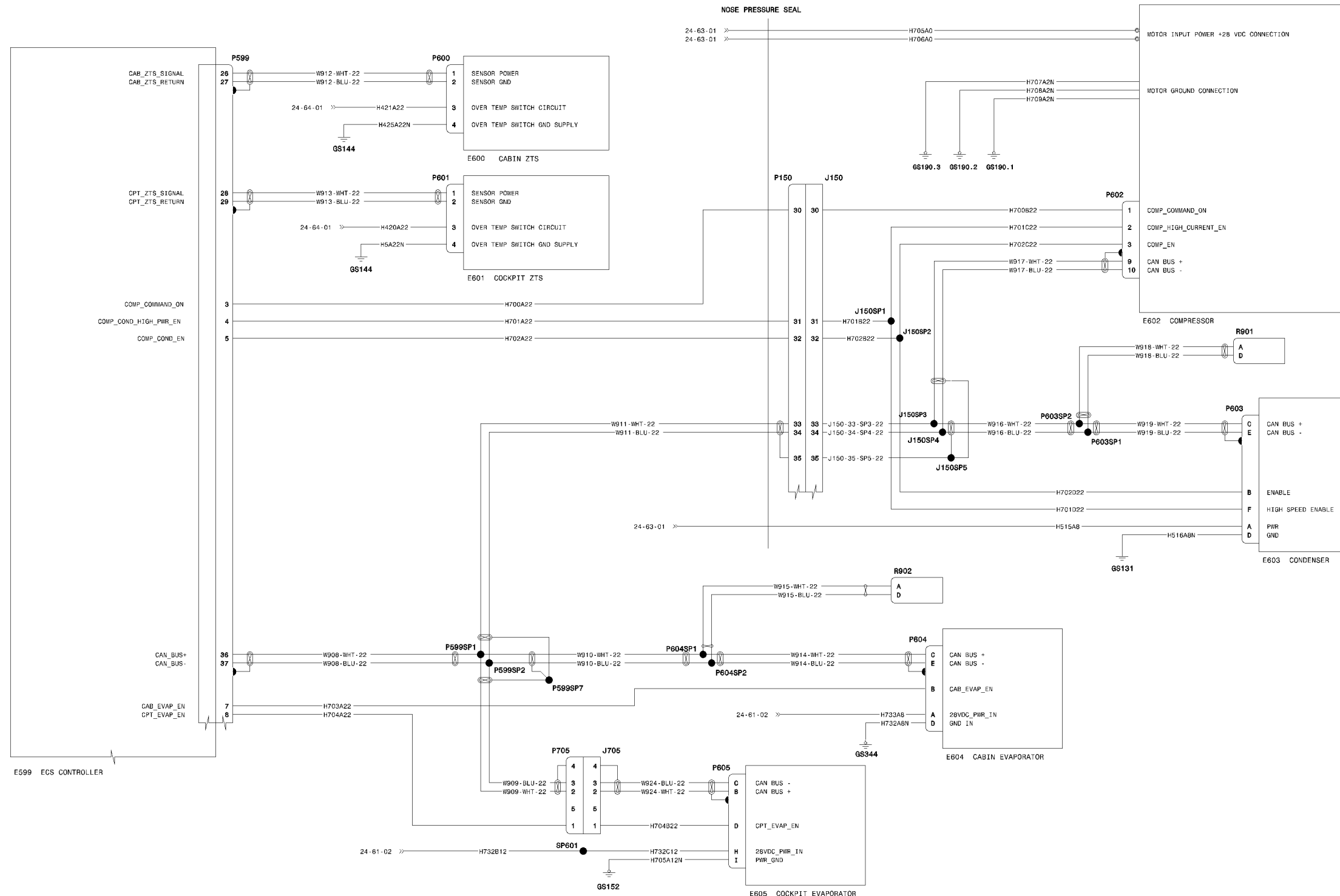
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**ELECTRIC HEATING**  
Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	1 2 3 4 5 6 7	NOMENCLATURE	EFFECTIVITY		UNITS
				FROM	TO	PER ASSY
P609SP1	M81824/1-2	.	SPLICE .....	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
P610	D38999/26FB35SN	.	PLUG .....	V81349	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	131741-3	..	MARKER BAND	V70898		01 R
-	52672	..	FIRE RESISTANT TAPE	V02988		01 R
-	M39029/56-348	..	TERMINAL SOCKET CONTACT	V81349		08 R
-	M85049/38S11N	..	BACKSHELL	V81349		01 R
P610SP1	M81824/1-1	.	SPLICE .....		FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R

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**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



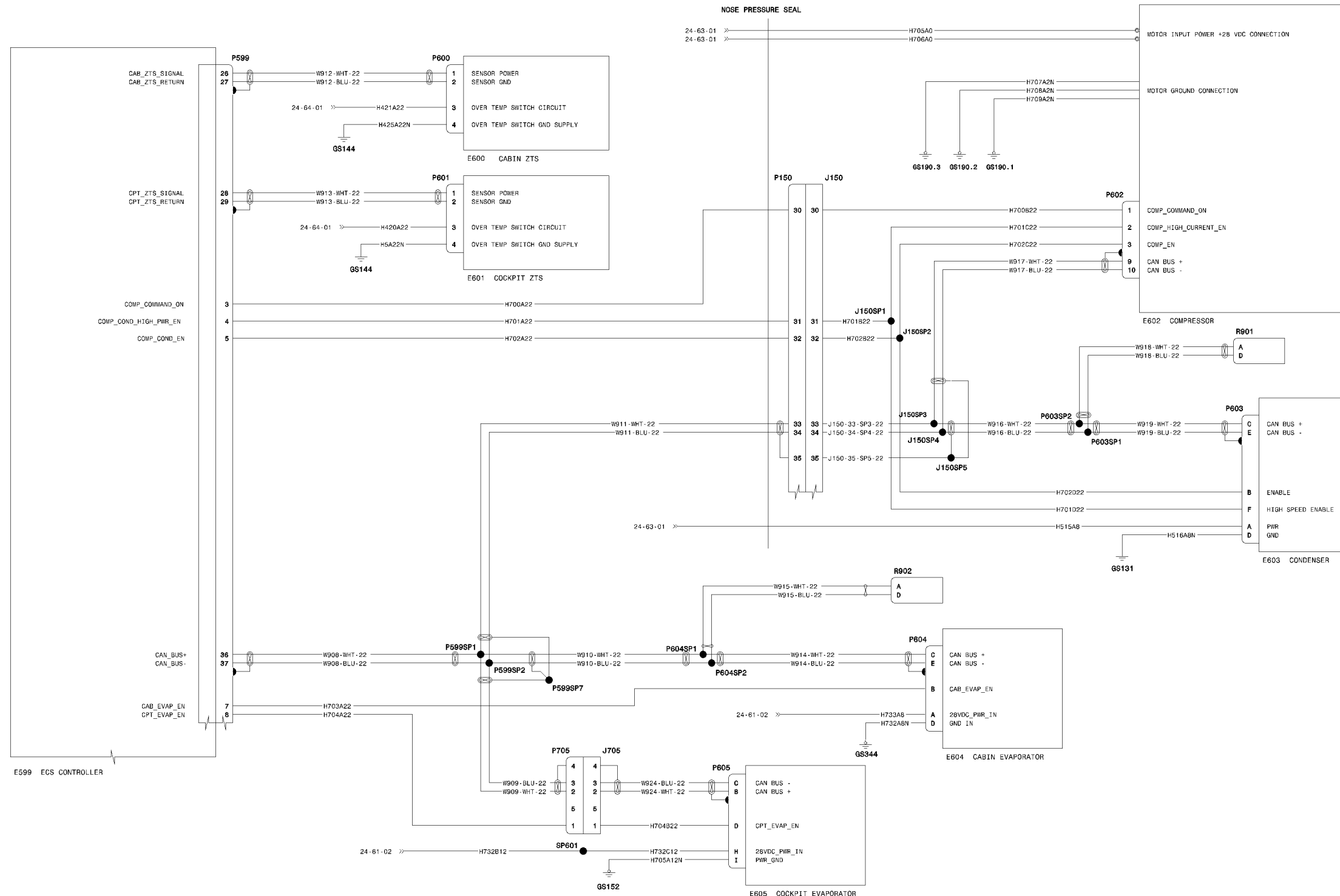
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CABIN COOLING  
 Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
02		CABIN COOLING	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
GS131		. GROUND STUD (ZONE 211) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-115	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
GS144		. GROUND STUD OVRHD CONT PNL (ZONE 253) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-103	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS25036-108	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
GS152		. GROUND STUD (ZONE 122) . . . . .			RF R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-103	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS25036-108	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS25036-112	. . TERMINAL RING TONGUE . . . . .	V70898	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
GS190.1		. GROUND STUD . . . . .		FL1300 FL1300	RF R
				FL1307 FL9999	
				FM0110 FM9999	
-	MS25036-126	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
GS190.2		. GROUND STUD . . . . .		FL1300 FL1300	RF R
				FL1307 FL9999	
				FM0110 FM9999	
-	MS25036-126	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
GS190.3		. GROUND STUD . . . . .		FL1300 FL1300	RF R
				FL1307 FL9999	
				FM0110 FM9999	
-	MS25036-126	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
GS344		. GROUND STUD . . . . .		FL1300 FL1300	RF R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-115	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
J150	206151-2	. RECEPTACLE, 23-37 DISC NOSE (ZONE 121) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	206138-1	. . BACKSHELL . . . . .	V00779		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66099-4	. . TERMINAL PIN CONTACT . . . . .	V00779		03 R
-	66103-4	. . TERMINAL PIN CONTACT . . . . .	V00779		11 R
J150SP1	D-436-37	. SPLICE . . . . .	V06090	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
J150SP2	D-436-37	. SPLICE . . . . .	V06090	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
J150SP3	D-436-37	. SPLICE . . . . .	V06090	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
J150SP4	D-436-37	. SPLICE . . . . .	V06090	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
J150SP5	D-436-37	. SPLICE . . . . .	V06090	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
J705	SJS860500	. INLINE PLUG . . . . .	V58982	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
-	M39029/58-360	. . TERMINAL PIN CONTACT . . . . .	V81349		04 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		01 R

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



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CABIN COOLING  
 Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
P150	206150-1	. PLUG, 23-37 NOSE COMPT (ZONE 131) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	206138-8	. . BACKSHELL	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT	V00779		03 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		10 R
P599	280-019S5H78MET	. CONNECTOR . . . . .		FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	289T005ME5D-TSK	. . STRAIN RELIEF STRAIGHT			01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/57-354	. . TERMINAL SOCKET CONTACT	V81349		AR R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		08 R
P599SP1	D-436-37	. SPLICE . . . . .	V06090	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	D-436-0097	. . SEALING SLEEVE	V06090		01 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		03 R
P599SP2	D-436-37	. SPLICE . . . . .	V06090	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
P599SP7	D-436-37	. SPLICE . . . . .	V06090	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
P600	D38999/26FB35PN	. PLUG HEAT MIXING BOX (ZONE 142) . . . . .	V81349		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	D-436-0097	. . SEALING SLEEVE	V06090		01 R
-	D-436-0098	. . SEALING SLEEVE	V06090		03 R
-	M39029/58-360	. . TERMINAL PIN CONTACT	V81349		13 R
-	M85049/38S11N	. . BACKSHELL	V81349		01 R
-	MS27488-20	. . SEALING PLUG	V96906		02 R
P601	D38999/26FA35SN	. PLUG . . . . .	V81349	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	D-436-0097	. . SEALING SLEEVE	V06090		01 R
-	M39029/56-348	. . TERMINAL SOCKET CONTACT	V81349		04 R
-	M85049/38S-9N	. . STRAIN RELIEF	V81349		01 R
P602	D38999/26WB35SN	. PLUG . . . . .	V81349	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	131741-5	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	D-436-0098	. . SEALING SLEEVE	V06090		01 R
-	M39029/56-348	. . TERMINAL SOCKET CONTACT	V81349		13 R
-	M85049/38S11W	. . BACKSHELL	V81349		01 R
-	MS27488-22	. . SEALING PLUG	V96906		08 R
P603	MS3459W20-8S	. PLUG . . . . .	V96906	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	131741-5	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	D-436-0098	. . SEALING SLEEVE	V06090		01 R
-	M39029/30-218	. . TERMINAL SOCKET CONTACT	V81349		04 R
-	M39029/30-220	. . SOCKET	V81349		02 R
-	M85049/52S20W	. . BACKSHELL	V81349		01 R
P603SP1	D-436-37	. SPLICE . . . . .	V06090	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
P603SP2	D-436-37	. SPLICE . . . . .	V06090	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R

- ITEM NOT ILLUSTRATED

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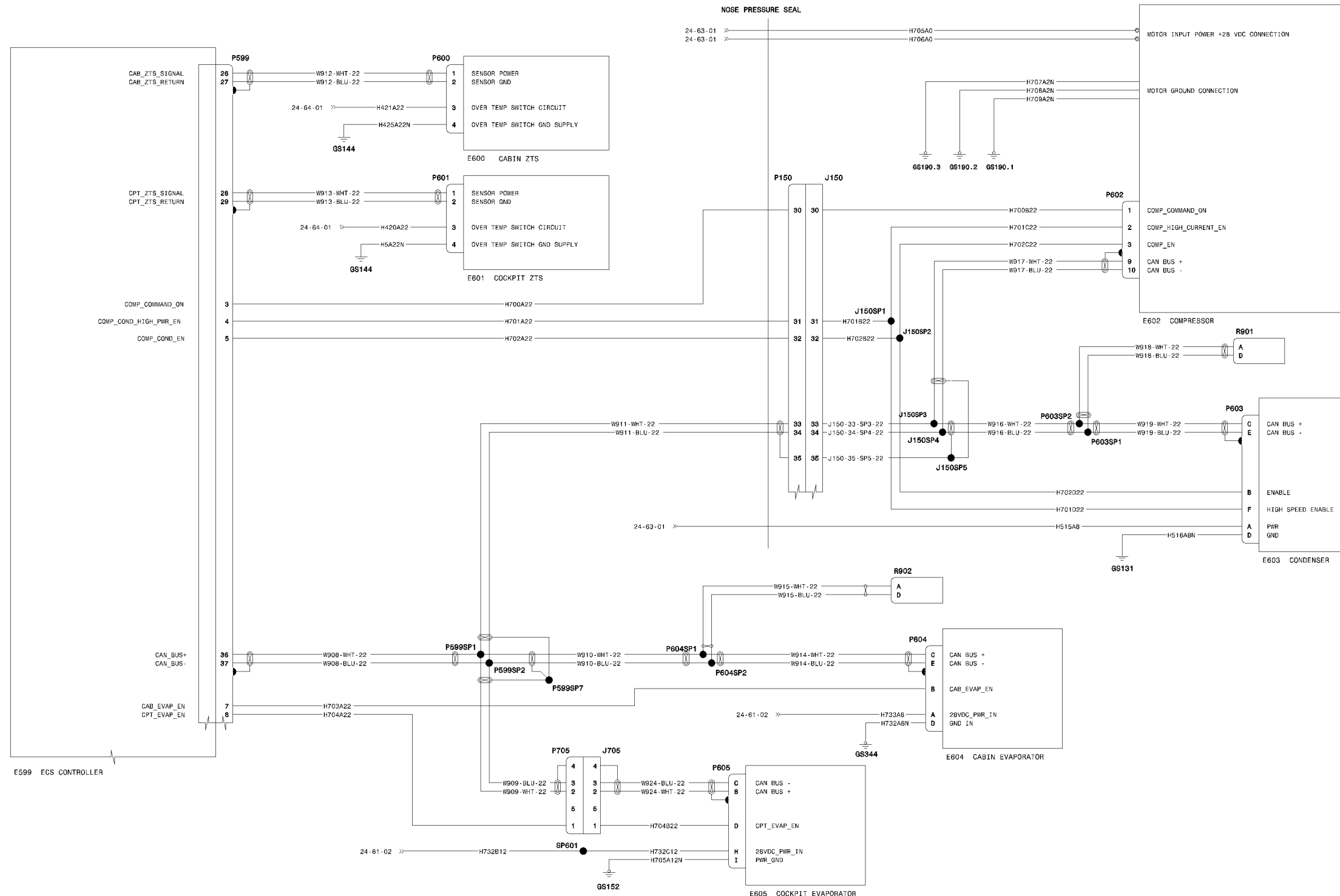
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Figure 02

Page 3

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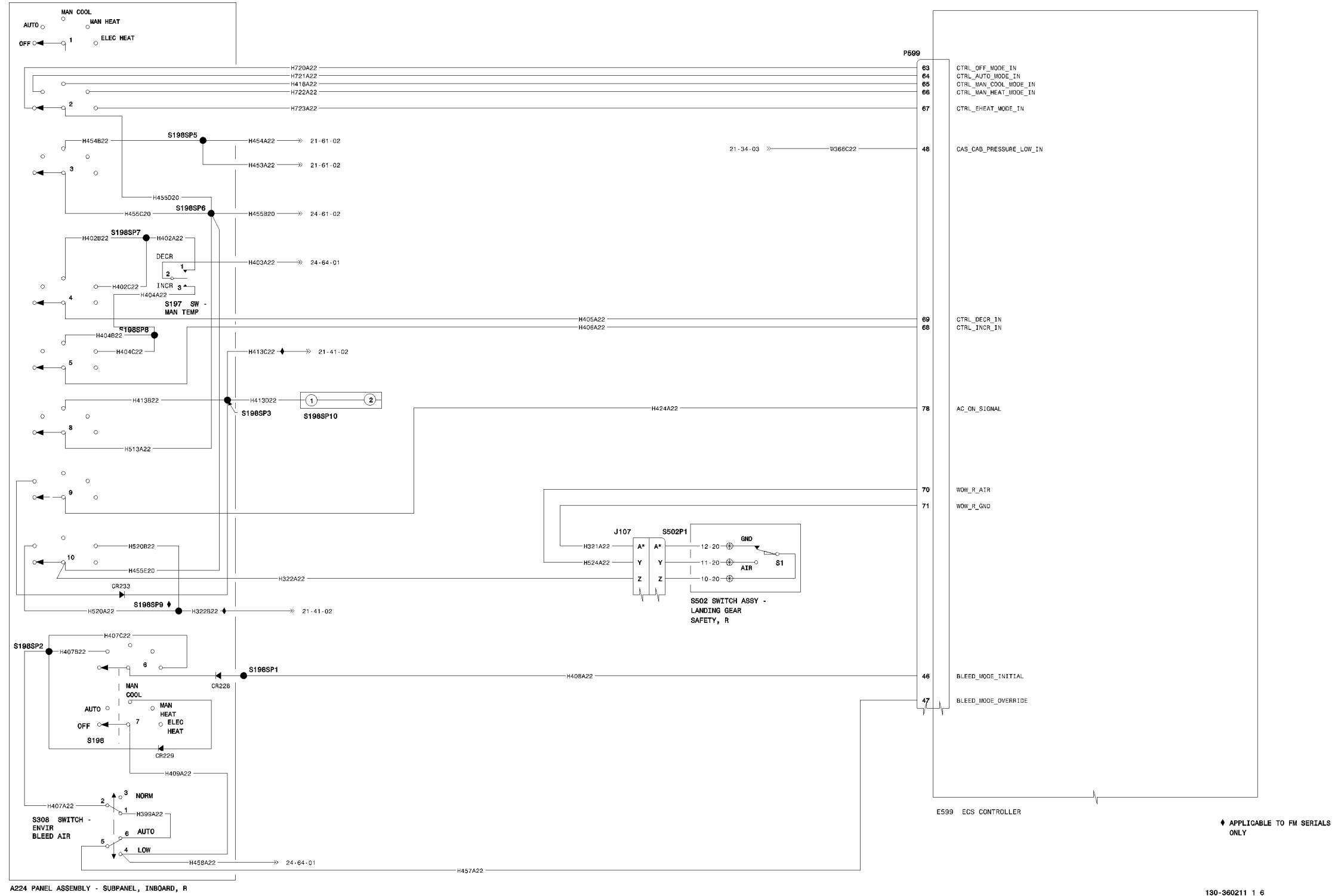
CABIN COOLING  
 Figure 02 (Sheet 1)



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 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY FROM TO	UNITS	
				PER ASSY	
P604	MS3459W20-8S	. PLUG . . . . .	V96906	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	131741-3	. . . MARKER BAND	V70898		01 R
-	52672	. . . FIRE RESISTANT TAPE	V02988		01 R
-	D-436-0097	. . . SEALING SLEEVE	V06090		01 R
-	M39029/30-218	. . . TERMINAL SOCKET CONTACT	V81349		03 R
-	M39029/30-220	. . . SOCKET	V81349		02 R
-	M85049/52S20W	. . . BACKSHELL	V81349		01 R
-	MS25036-149	. . . TERMINAL RING TONGUE	V70898		01 R
P604SP1	D-436-37	. SPLICE . . . . .	V06090	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	D-436-0097	. . . SEALING SLEEVE	V06090		03 R
P604SP2	D-436-37	. SPLICE . . . . .	V06090	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
P605	MS3459W20-16S	. PLUG . . . . .	V96906	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	115110-D8	. . . TERMINAL RING TONGUE			01 R
-	52672	. . . FIRE RESISTANT TAPE			01 R
-	M39029/30-218	. . . TERMINAL SOCKET CONTACT	V81349		07 R
-	M39029/30-219	. . . TERMINAL SOCKET CONTACT	V81349		02 R
-	M83519/2-8	. . . SHIELD TERMINATION			01 R
-	M85049/52S20W	. . . BACKSHELL			01 R
-	MS27488-16	. . . SEALING PLUG			04 R
P705	SJS860510	. INLINE PLUG . . . . .	V58982	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	M39029/57-354	. . . TERMINAL SOCKET CONTACT	V81349		04 R
-	M83519/2-8	. . . SHIELD TERMINATION	V81343		01 R
P901	TJSE22517	. WIRE SPLICE DOUBLE RESISTOR 120 OHM SIZE 22 . . . . .		FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	D-436-0098	. . . SEALING SLEEVE	V06090		01 R
-	M39029/1-100	. . . TERMINAL PIN CONTACT	V81349		02 R
R902	TJSE22517	. WIRE SPLICE DOUBLE RESISTOR 120 OHM SIZE 22 . . . . .		FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	131741-1	. . . MARKER BAND	V70898		01 R
-	D-436-0097	. . . SEALING SLEEVE	V06090		01 R
-	M39029/1-100	. . . TERMINAL PIN CONTACT	V81349		02 R
SP601	M81824/1-3	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R

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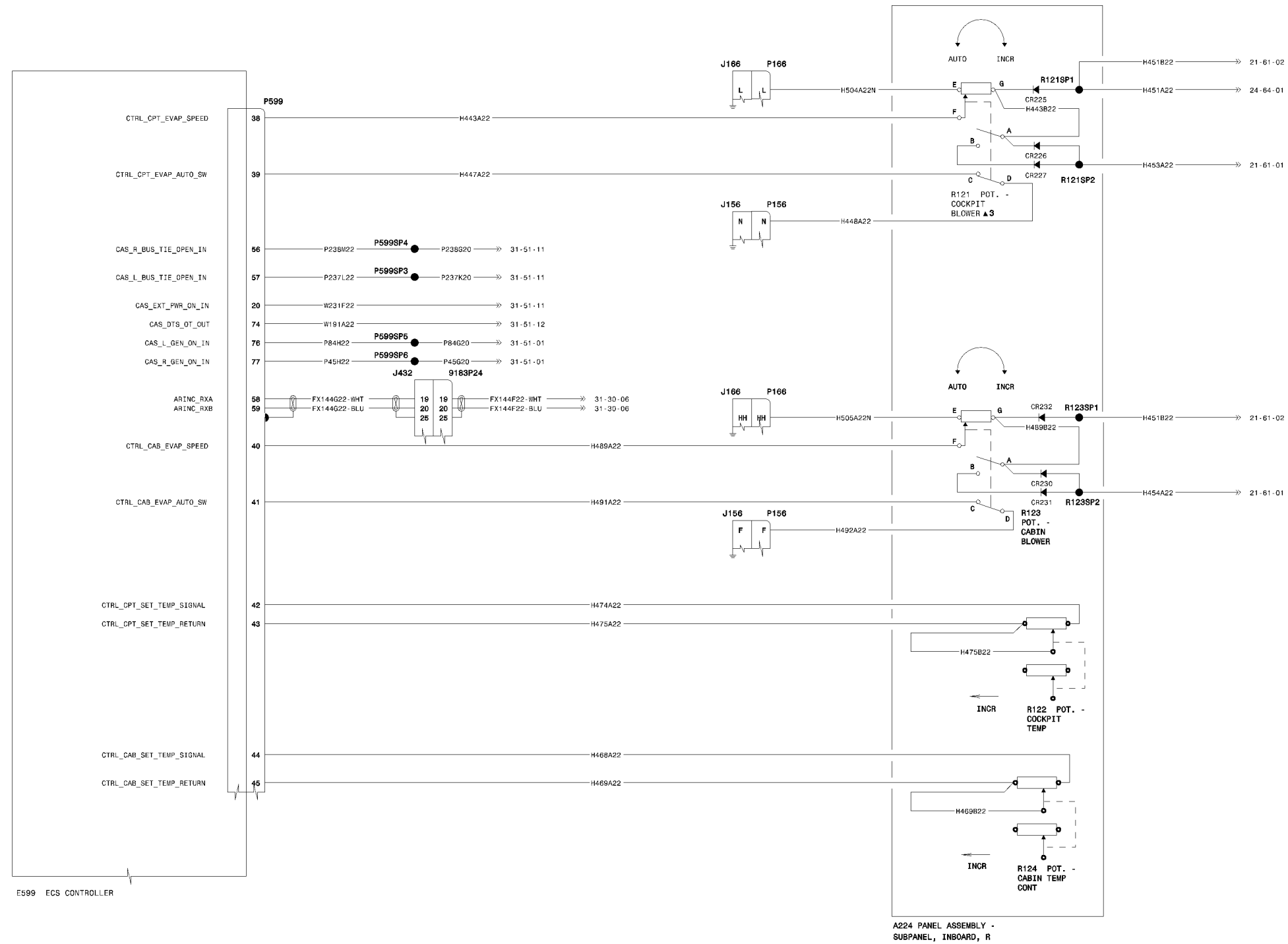


CABIN TEMPERATURE CONTROL  
 Figure 03 (Sheet 1)

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 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
03		CABIN TEMPERATURE CONTROL	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
CR228	1N4007	. DIODE (ZONE 244) . . . . .	V07688		01 R
CR229	1N4007	. DIODE (ZONE 244) . . . . .	V07688		01 R
CR233	1N4007	. DIODE (ZONE 244) . . . . .	V07688		01 R
J107	MS3474L16-26S	. RECEPTACLE LDG GR SAFETY SW, R (ZONE 740) . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT . . . . .	V81349		26 R
-	M85049/52-1-16N	. . BACKSHELL . . . . .	V81349		01 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		15 R
P599	280-019S5H78MET	. CONNECTOR . . . . .		FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	289T007ME5C-TSK	. . STRAIN RELIEF STRAIGHT . . . . .			01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/63-368	. . TERMINAL SOCKET CONTACT . . . . .	V81349		AR R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		08 R
S197		. SWITCH, TOGGLE ONE POLE (ZONE 244) . . . . .			RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898		03 R
S198		. SWITCH, ROTARY CAB TEMP MODE (ZONE 244) . . . . .			RF R
-	106242C31	. . HEATSHRINK . . . . .	V70898		25 R
-	SOLDER	. . TERMINAL CONTACT . . . . .	V81349		25 R
-	T500-20	. . TUBING TEFLON NATURAL . . . . .	V71002		03 R
S198SP10	M81714/11-22D	. TERMINAL JUNCTION BLOCK . . . . .	V81343	FL1140 FL9999	01 R
				FM0076FM9999	
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	M39029/1-100	. . TERMINAL PIN CONTACT . . . . .	V81349		01 R
-	MS27488-22	. . SEALING PLUG . . . . .	V96906		01 R
S198SP1	M81824/1-1	. SPLICE . . . . .	V81343		01 R
-	T500-20	. . TUBING TEFLON NATURAL . . . . .	V71002		01 R
S198SP2	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	T500-20	. . TUBING TEFLON NATURAL . . . . .	V71002		01 R
S198SP3	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	T500-20	. . TUBING TEFLON NATURAL . . . . .	V71002		01 R
S198SP5	M81824/1-2	. SPLICE . . . . .	V81343		01 R
S198SP6	D-436-53	. SPLICE . . . . .	V06090		01 R
S198SP7	M81824/1-2	. SPLICE . . . . .	V81343		01 R
S198SP8	M81824/1-2	. SPLICE . . . . .	V81343		01 R
S308		. SWITCH, TOGGLE TWO POLE ENVIR BLEED AIR LOW (ZONE 244) . . . . .			RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898		05 R

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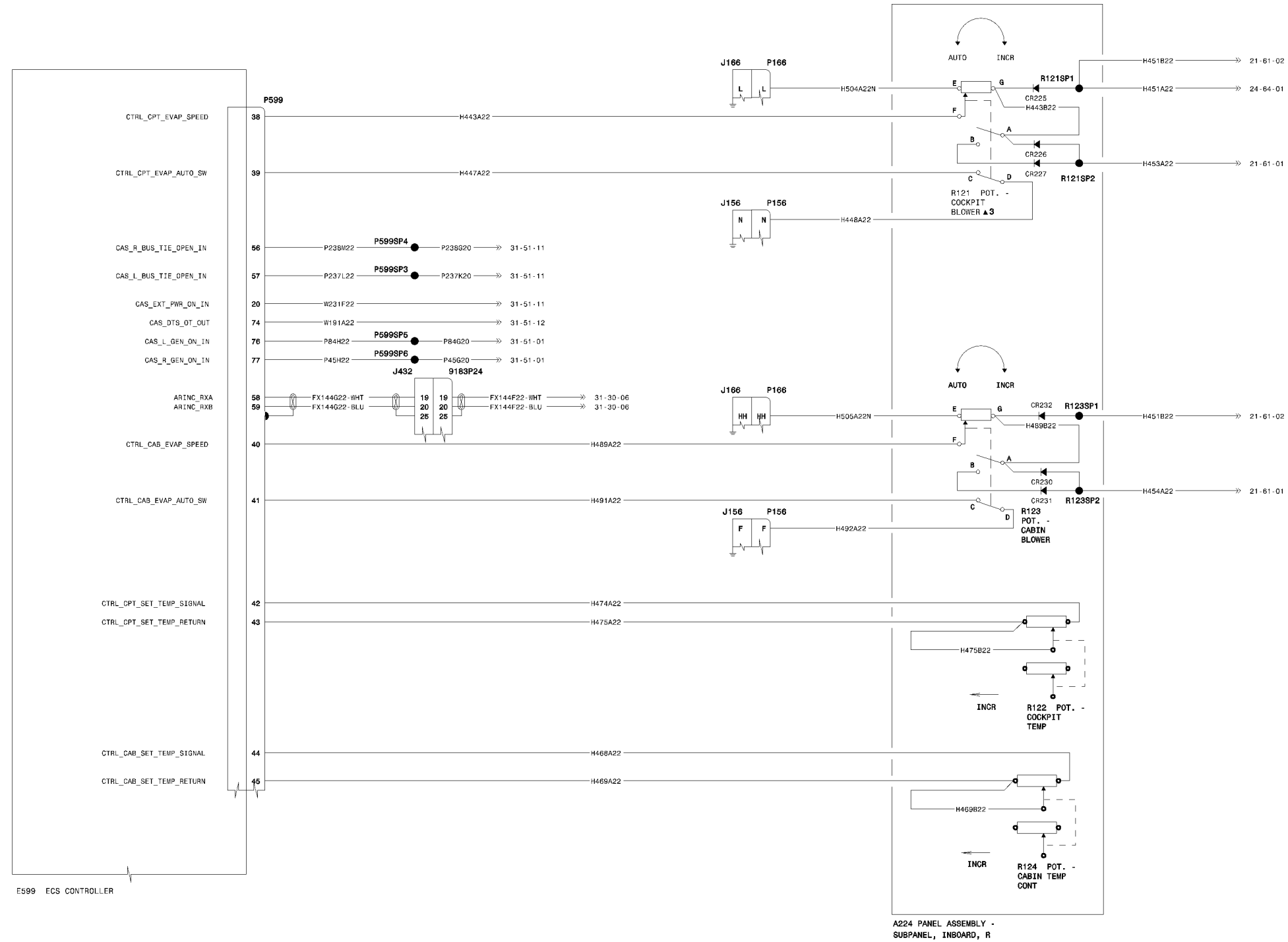
CABIN TEMPERATURE CONTROL  
 Figure 02 (Sheet 1)

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FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
02		CABIN TEMPERATURE CONTROL	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
9183P24	205839-3	. PLUG, 28 POSITION CONT WHEEL . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	206070-1	. . BACKSHELL . . . . .	V00779		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/63-368	. . TERMINAL SOCKET CONTACT . . . . .	V81349		19 R
CR225	1N4007	. DIODE (ZONE 244). . . . .	V07688		01 R
CR226	1N4007	. DIODE (ZONE 244). . . . .	V07688		01 R
CR227	1N4007	. DIODE (ZONE 244). . . . .	V07688		01 R
CR230	1N4007	. DIODE (ZONE 244). . . . .	V07688		01 R
CR231	1N4007	. DIODE (ZONE 244). . . . .	V07688		01 R
CR232	1N4007	. DIODE (ZONE 244). . . . .	V07688		01 R
J432	205840-3	. RECEPTACLE, 28 POSITION PITCH TRIM (ZONE 244). . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	205089-1	. . TERMINAL PIN CONTACT . . . . .	V06090		18 R
-	206070-1	. . BACKSHELL . . . . .	V00779		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
P156	200838-3	. RECEPTACLE, 34 POSITION RELAY GND, R (ZONE 143). . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	201224-1	. . BACKSHELL . . . . .	V00779		01 R
-	203618-1	. . JACKSCREW . . . . .	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		02 R
-	66105-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		27 R
P166	200838-3	. RECEPTACLE, 34 POSITION SUBPANEL GND, R (ZONE 232). . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	201224-1	. . BACKSHELL . . . . .	V00779		01 R
-	203618-1	. . JACKSCREW . . . . .	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		22 R
-	66105-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		02 R
P599	280-019S5H78MET	. CONNECTOR . . . . .		FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	289T007ME5C-TSK	. . STRAIN RELIEF STRAIGHT . . . . .			01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/63-368	. . TERMINAL SOCKET CONTACT . . . . .	V81349		AR R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		08 R
P599SP3	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
P599SP4	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
P599SP5	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
P599SP6	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
R121		. POTENTIOMETER COCKPIT BLOWER CONT (ZONE 244). . . . .			RF R
-	106242C42	. . HEATSHRINK . . . . .	V70898		07 R
-	SOLDER	. . TERMINAL CONTACT . . . . .	V81349		07 R
-	T500-20	. . TUBING TEFLON NATURAL . . . . .	V71002		03 R
R121SP1	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	T500-20	. . TUBING TEFLON NATURAL . . . . .	V71002		01 R
R121SP2	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	T500-20	. . TUBING TEFLON NATURAL . . . . .	V71002		02 R
R122		. POTENTIOMETER COCKPIT TEMP CONT (ZONE 244). . . . .			RF R
-	106242C42	. . HEATSHRINK . . . . .	V70898		07 R
-	SOLDER	. . TERMINAL CONTACT . . . . .	V81349		07 R

- ITEM NOT ILLUSTRATED

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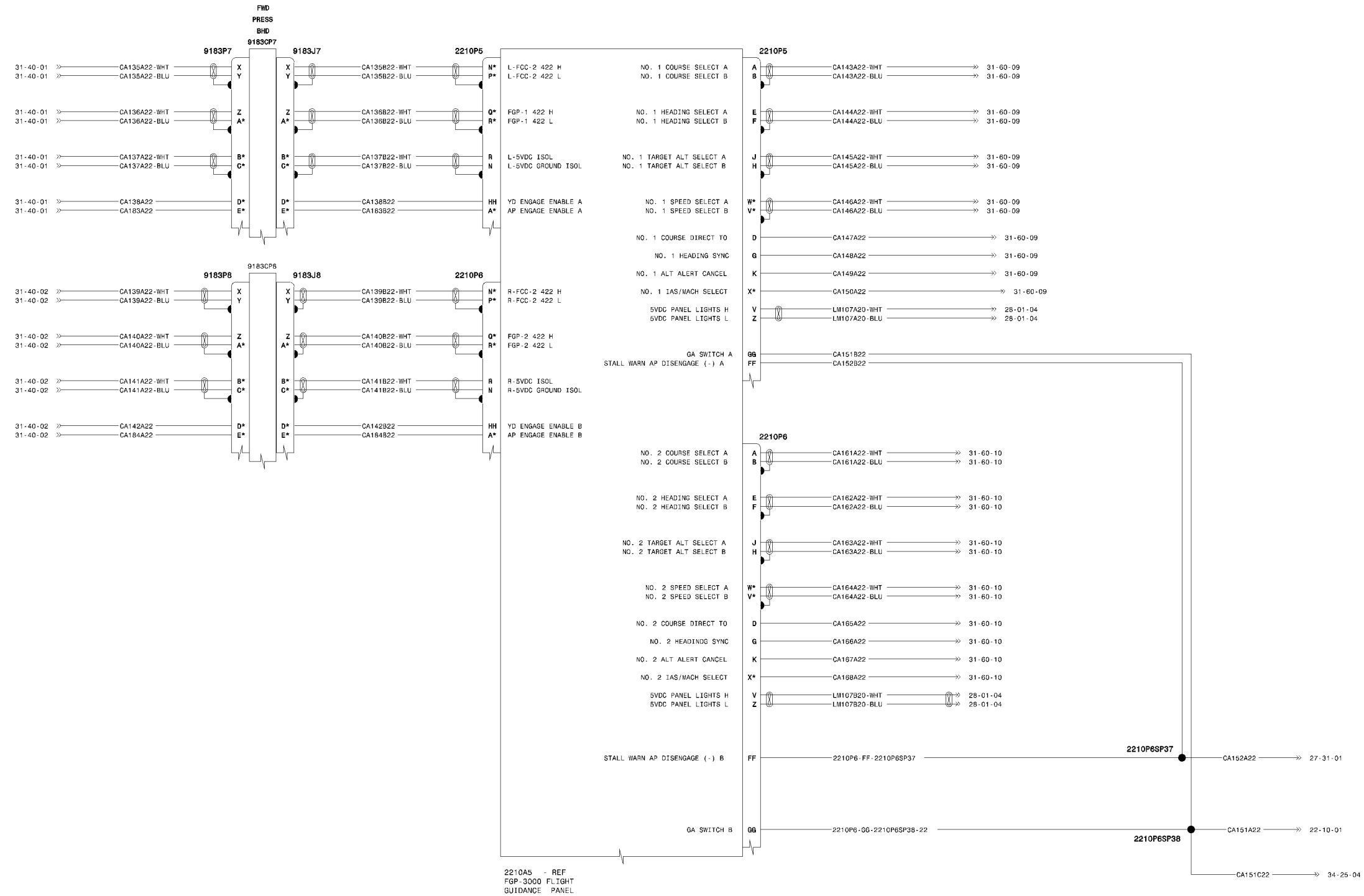


CABIN TEMPERATURE CONTROL  
 Figure 02 (Sheet 1)

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 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
			1	2	3
R123		. POTENTIOMETER CABIN BLOWER CONTROL (ZONE 244) . . . .			RF R
-	106242C42	. . HEATSHRINK		V70898	07 R
-	SOLDER	. . TERMINAL CONTACT		V81349	07 R
-	T500-20	. . TUBING TEFLON NATURAL		V71002	03 R
R123SP1	M81824/1-1	. SPLICE . . . . .		V81343	01 R
-	T500-20	. . TUBING TEFLON NATURAL		V71002	01 R
R123SP2	M81824/1-2	. SPLICE . . . . .		V81343	01 R
-	T500-20	. . TUBING TEFLON NATURAL		V71002	02 R
R124		. POTENTIOMETER CABIN TEMP CONTROL (ZONE 244). . . . .			RF R
-	106242C42	. . HEATSHRINK		V70898	06 R
-	SOLDER	. . TERMINAL CONTACT		V81349	06 R

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FLIGHT GUIDANCE PANEL  
Figure 02 (Sheet 1)



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FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
02		FLIGHT GUIDANCE PANEL	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
2210P5	MS27484T22F55S	. PLUG FLT GUIDE PNL . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	D-436-0098	. . SEALING SLEEVE . . . . .	V06090		01 R
-	M39029/57-357	. . TERMINAL SOCKET CONTACT . . . . .	V81349		55 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		08 R
-	M85049/49-2-22N	. . BACKSHELL . . . . .	V96906		01 R
-	MS25036-153	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		22 R
2210P6	MS27484T22F55SC	. PLUG FLT GUIDE PNL . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	D-436-0098	. . SEALING SLEEVE . . . . .	V06090		01 R
-	M39029/57-357	. . TERMINAL SOCKET CONTACT . . . . .	V81349		55 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		08 R
-	M85049/49-2-22N	. . BACKSHELL . . . . .	V96906		01 R
-	MS25036-153	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		23 R
2210P6S- P37	M81824/1-2	. SPLICE . . . . .	V81343		01 R
2210P6S- P38	M81824/1-2	. SPLICE . . . . .	V81343		01 R
9183J7	MS3476W24-61SX	. PLUG FWD BKHD . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	D-436-0097	. . SEALING SLEEVE . . . . .	V06090		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT . . . . .	V81349		60 R
-	M83519/2-7	. . SHIELD TERMINATION . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		18 R
-	M85049/52S24W	. . BACKSHELL . . . . .	V81349		01 R
-	MS25036-153	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
-	MS25036-156	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
9183J8	MS3476W24-61SY	. PLUG FWD PRESS BKHD . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	D-436-0097	. . SEALING SLEEVE . . . . .	V06090		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT . . . . .	V81349		61 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		17 R
-	M85049/52S24W	. . BACKSHELL . . . . .	V81349		01 R
-	MS25036-153	. . TERMINAL RING TONGUE . . . . .	V70898		05 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		05 R
9183P7	MS3476W24-61PX	. PLUG FWD BKHD . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	D-436-0096	. . SEALING SLEEVE . . . . .	V06090		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT . . . . .	V81349		61 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		22 R
-	M85049/52S24W	. . BACKSHELL . . . . .	V81349		01 R
-	MS25036-153	. . TERMINAL RING TONGUE . . . . .	V70898		04 R
9183P8	MS3476W24-61PY	. PLUG FWD BKHD . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT . . . . .	V81349		61 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		21 R
-	M85049/52S24W	. . BACKSHELL . . . . .	V81349		01 R
-	MS25036-153	. . TERMINAL RING TONGUE . . . . .	V70898		03 R
-	MS25036-156	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		05 R

- ITEM NOT ILLUSTRATED

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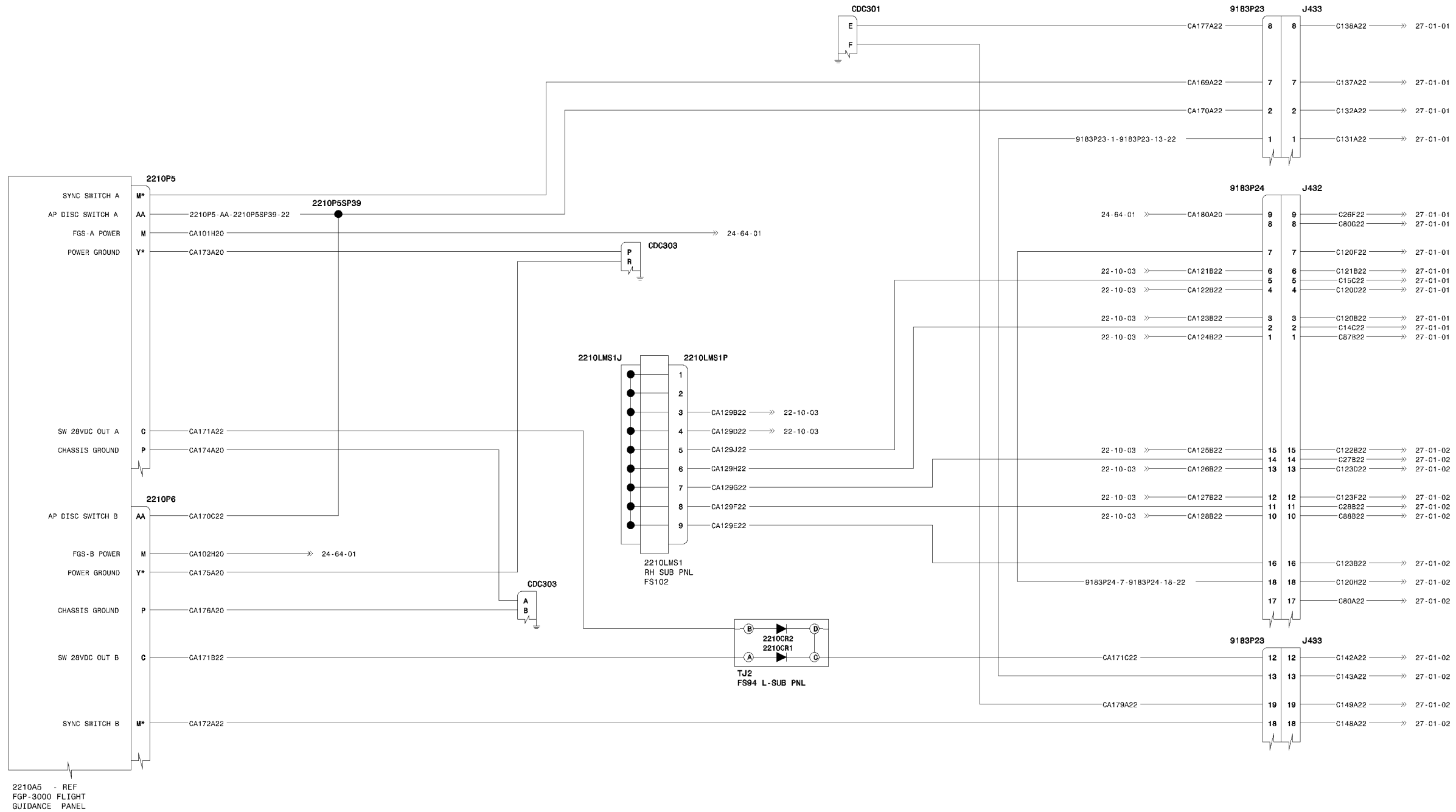
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Figure 02

Page 1

**22-10-04** Dec 02/2022

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**



434-340653\_9\_6

FLIGHT GUIDANCE PANEL  
 Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
02		FLIGHT GUIDANCE PANEL	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
	2210LMS1 P	LMD-4001-S . SEALED SOCKET MODULE . . . . .	V49367		01 R
-		131741-3 . . MARKER BAND . . . . .	V70898		01 R
-		LMD-6003-P . . BUSSING MODULE . . . . .	V49367		01 R
-		LMS-01T-TL . . IN-LINE SPLICE CONNECTOR . . . . .	V49367		01 R
-		M39029/5-115 . . TERMINAL SOCKET CONTACT . . . . .	V81349		09 R
-		MS27488-20 . . SEALING PLUG . . . . .	V96906		02 R
	2210P5	MS27484T22F55S . PLUG FLT GUIDE PNL . . . . .	V96906		01 R
-		131741-3 . . MARKER BAND . . . . .	V70898		01 R
-		52672 . . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-		D-436-0098 . . SEALING SLEEVE . . . . .	V06090		01 R
-		M39029/57-357 . . TERMINAL SOCKET CONTACT . . . . .	V81349		55 R
-		M83519/2-8 . . SHIELD TERMINATION . . . . .	V81343		08 R
-		M85049/49-2-22N . . BACKSHELL . . . . .	V96906		01 R
-		MS25036-153 . . TERMINAL RING TONGUE . . . . .	V70898		02 R
-		MS27488-20 . . SEALING PLUG . . . . .	V96906		22 R
	2210P5S- P39	M81824/1-2 . SPLICE . . . . .	V81343		01 R
	2210P6	MS27484T22F55SC . PLUG FLT GUIDE PNL . . . . .	V96906		01 R
-		131741-3 . . MARKER BAND . . . . .	V70898		01 R
-		52672 . . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-		D-436-0098 . . SEALING SLEEVE . . . . .	V06090		01 R
-		M39029/57-357 . . TERMINAL SOCKET CONTACT . . . . .	V81349		55 R
-		M83519/2-8 . . SHIELD TERMINATION . . . . .	V81343		08 R
-		M85049/49-2-22N . . BACKSHELL . . . . .	V96906		01 R
-		MS25036-153 . . TERMINAL RING TONGUE . . . . .	V70898		02 R
-		MS27488-20 . . SEALING PLUG . . . . .	V96906		23 R
	9183P23	205839-3 . PLUG, 28 POSITION CONT WHEEL . . . . .	V00779		01 R
-		131741-3 . . MARKER BAND . . . . .	V70898		01 R
-		206070-1 . . BACKSHELL . . . . .	V00779		01 R
-		52672 . . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-		M39029/63-368 . . TERMINAL SOCKET CONTACT . . . . .	V81349		23 R
	9183P24	205839-3 . PLUG, 28 POSITION CONT WHEEL . . . . .	V00779		01 R
-		131741-3 . . MARKER BAND . . . . .	V70898		01 R
-		206070-1 . . BACKSHELL . . . . .	V00779		01 R
-		52672 . . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-		M39029/63-368 . . TERMINAL SOCKET CONTACT . . . . .	V81349		19 R
	CDC301	200838-2 . RECEPTACLE, 34 POSITION GND BLK. . . . .	V00779		01 R
-		131741-3 . . MARKER BAND . . . . .	V70898		01 R
-		193846-1 . . TERMINAL SOCKET CONTACT . . . . .	V00779		01 R
-		201224-1 . . BACKSHELL . . . . .	V00779		01 R
-		201328-1 . . TERMINAL SOCKET CONTACT . . . . .	V00779		21 R
-		203618-1 . . TERMINAL SOCKET CONTACT . . . . .	V00779		02 R
-		52672 . . FIRE RESISTANT TAPE . . . . .	V02988		01 R
	CDC303	200838-2 . RECEPTACLE, 34 POSITION GND BLK. . . . .	V00779		01 R
-		131741-3 . . MARKER BAND . . . . .	V70898		01 R
-		193846-1 . . TERMINAL SOCKET CONTACT . . . . .	V00779		01 R
-		201224-1 . . BACKSHELL . . . . .	V00779		01 R
-		201328-1 . . TERMINAL SOCKET CONTACT . . . . .	V00779		11 R
-		203618-1 . . JACKSCREW . . . . .	V00779		02 R
-		52672 . . FIRE RESISTANT TAPE . . . . .	V02988		01 R
	J432	205840-3 . RECPTACLE, 28 POSITION PITCH TRIM (ZONE 244) . . . . .	V00779		01 R
-		131741-3 . . MARKER BAND . . . . .	V70898		01 R
-		205089-1 . . TERMINAL PIN CONTACT . . . . .	V06090		18 R
-		206070-1 . . BACKSHELL . . . . .	V00779		01 R
-		52672 . . FIRE RESISTANT TAPE . . . . .	V02988		01 R
	J433	205840-3 . RECPTACLE, 28 POSITION AVIONICS INTERFACE (ZONE 245) . . . . .	V00779		01 R
-		131741-3 . . MARKER BAND . . . . .	V70898		01 R
-		205089-1 . . TERMINAL PIN CONTACT . . . . .	V06090		23 R
-		206070-1 . . BACKSHELL . . . . .	V00779		01 R
-		52672 . . FIRE RESISTANT TAPE . . . . .	V02988		01 R

- ITEM NOT ILLUSTRATED

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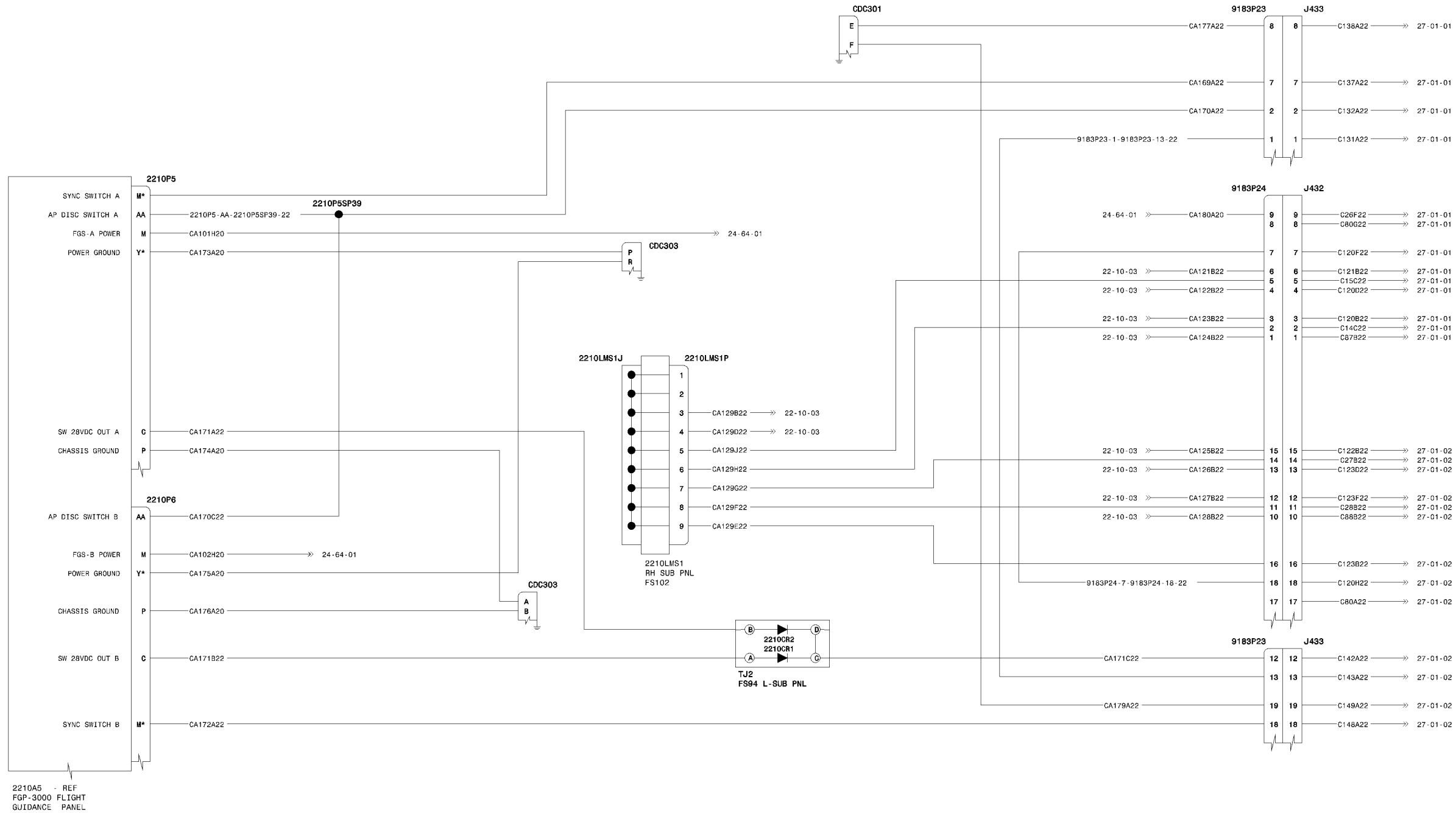
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Figure 02

Page 1

**22-10-05** Dec 02/2022

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**



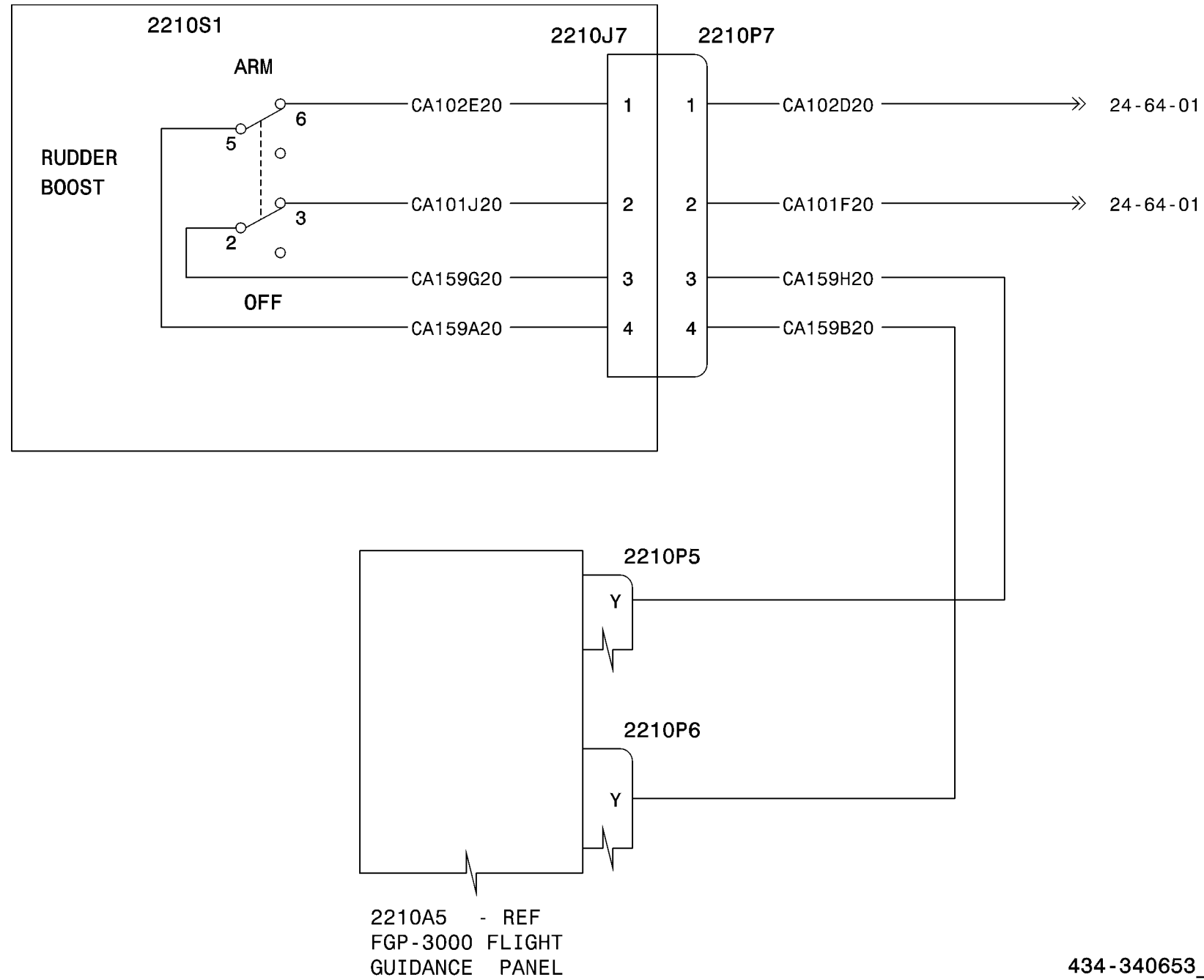
434-340653\_9\_6

FLIGHT GUIDANCE PANEL  
 Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS
			FROM	TO	PER ASSY
		1 2 3 4 5 6 7			
TJ2	TJSE20708	. TERMINAL JUNCTION SUBPANEL (ZONE 231) . . . . .	V58982		01 R
-	131741-1	. . MARKER BAND	V70898		01 R
-	M39029/1-101	. . TERMINAL PIN CONTACT	V81349		03 R
-	MS27488-20	. . SEALING PLUG	V96906		01 R

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



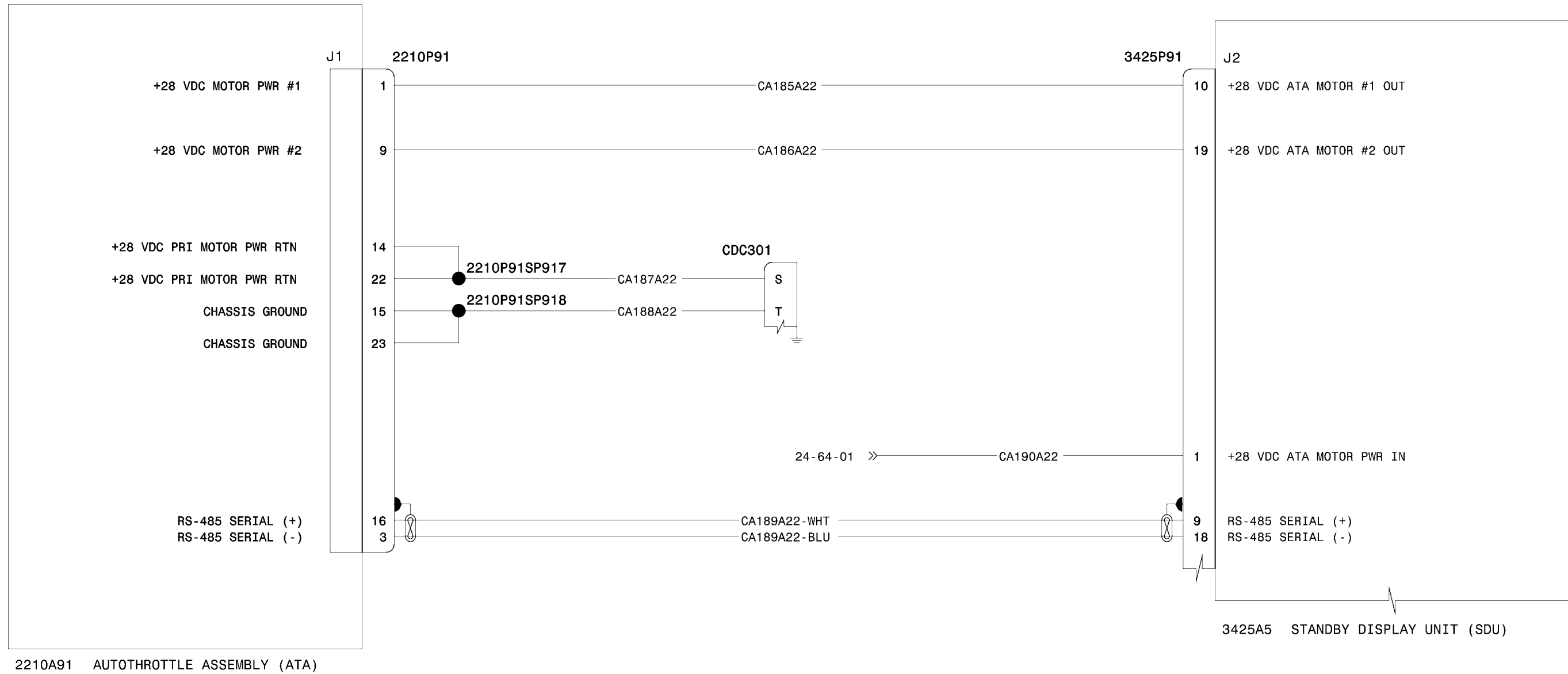
434-340653\_9\_7

FLIGHT GUIDANCE PANEL  
 Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
02		FLIGHT GUIDANCE PANEL	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
-	2210J7	1-480763-0 . . . PLUG, 5 CIRCUIT RUD BOOST . . . . .	V00779		01 R
-		131741-3 . . . MARKER BAND . . . . .	V70898		01 R
-		60618-5 . . . TERMINAL PIN CONTACT . . . . .	V00779		04 R
-	2210P5	MS27484T22F55S . . PLUG FLT GUIDE PNL . . . . .	V96906		01 R
-		131741-3 . . . MARKER BAND . . . . .	V70898		01 R
-		52672 . . . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-		D-436-0098 . . . SEALING SLEEVE . . . . .	V06090		01 R
-		M39029/57-357 . . . TERMINAL SOCKET CONTACT . . . . .	V81349		55 R
-		M83519/2-8 . . . SHIELD TERMINATION . . . . .	V81343		08 R
-		M85049/49-2-22N . . BACKSHELL . . . . .	V96906		01 R
-		MS25036-153 . . . TERMINAL RING TONGUE . . . . .	V70898		02 R
-		MS27488-20 . . . SEALING PLUG . . . . .	V96906		22 R
-	2210P6	MS27484T22F55SC . . PLUG FLT GUIDE PNL . . . . .	V96906		01 R
-		131741-3 . . . MARKER BAND . . . . .	V70898		01 R
-		52672 . . . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-		D-436-0098 . . . SEALING SLEEVE . . . . .	V06090		01 R
-		M39029/57-357 . . . TERMINAL SOCKET CONTACT . . . . .	V81349		55 R
-		M83519/2-8 . . . SHIELD TERMINATION . . . . .	V81343		08 R
-		M85049/49-2-22N . . BACKSHELL . . . . .	V96906		01 R
-		MS25036-153 . . . TERMINAL RING TONGUE . . . . .	V70898		02 R
-		MS27488-20 . . . SEALING PLUG . . . . .	V96906		23 R
-	2210P7	1-480764-0 . . . RECPTACLE, 5 CIRCUIT RUD BOOST SW . . . . .	V00779		01 R
-		131741-3 . . . MARKER BAND . . . . .	V70898		01 R
-		350689-2 . . . TERMINAL SOCKET CONTACT . . . . .	V00779		04 R
-	2210S1	. . . SWITCH, TOGGLE TWO POLE . . . . .			RF R
-		131741-1 . . . MARKER BAND . . . . .	V70898		01 R
-		MS25036-102 . . . TERMINAL RING TONGUE . . . . .	V70898		04 R

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



434-340003\_1\_2

AUTOTHROTTLE  
 Figure 01 (Sheet 1)



BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
01		AUTOTHROTTLE			
			FL1300	FL1300	
			FL1307	FL9999	
			FM011	FM9999	
2210P91	M24308/2-3F	. RECPTACLE 25 SOCKET . . . . .	V81349	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	D25000ANE0	. . BACKSHELL	V28198		01 R
-	M39029/63-368	. . TERMINAL SOCKET CONTACT	V81349		08 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		01 R
-	MS25036-148	. . TERMINAL RING TONGUE	V96906		01 R
2210P91	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300	01 R
SP917				FL1307 FL9999	
				FM0110 FM9999	
2210P91	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300	01 R
SP918				FL1307 FL9999	
				FM0110 FM9999	
3425P91	M24308/2-12F	. CONNECTOR . . . . .	V81349	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	D15000GE0	. . BACKSHELL	V28198		01 R
-	M39029/57-354	. . TERMINAL SOCKET CONTACT	V81349		16 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		01 R
-	MS25036-148	. . TERMINAL RING TONGUE	V96906		01 R
CDC301	200838-2	. RECEPTACLE, 34 POSITION GND BLK. . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	193846-1	. . TERMINAL SOCKET CONTACT	V00779		01 R
-	201224-1	. . BACKSHELL	V00779		01 R
-	201328-1	. . TERMINAL SOCKET CONTACT	V00779		21 R
-	203618-1	. . TERMINAL SOCKET CONTACT	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R

- ITEM NOT ILLUSTRATED

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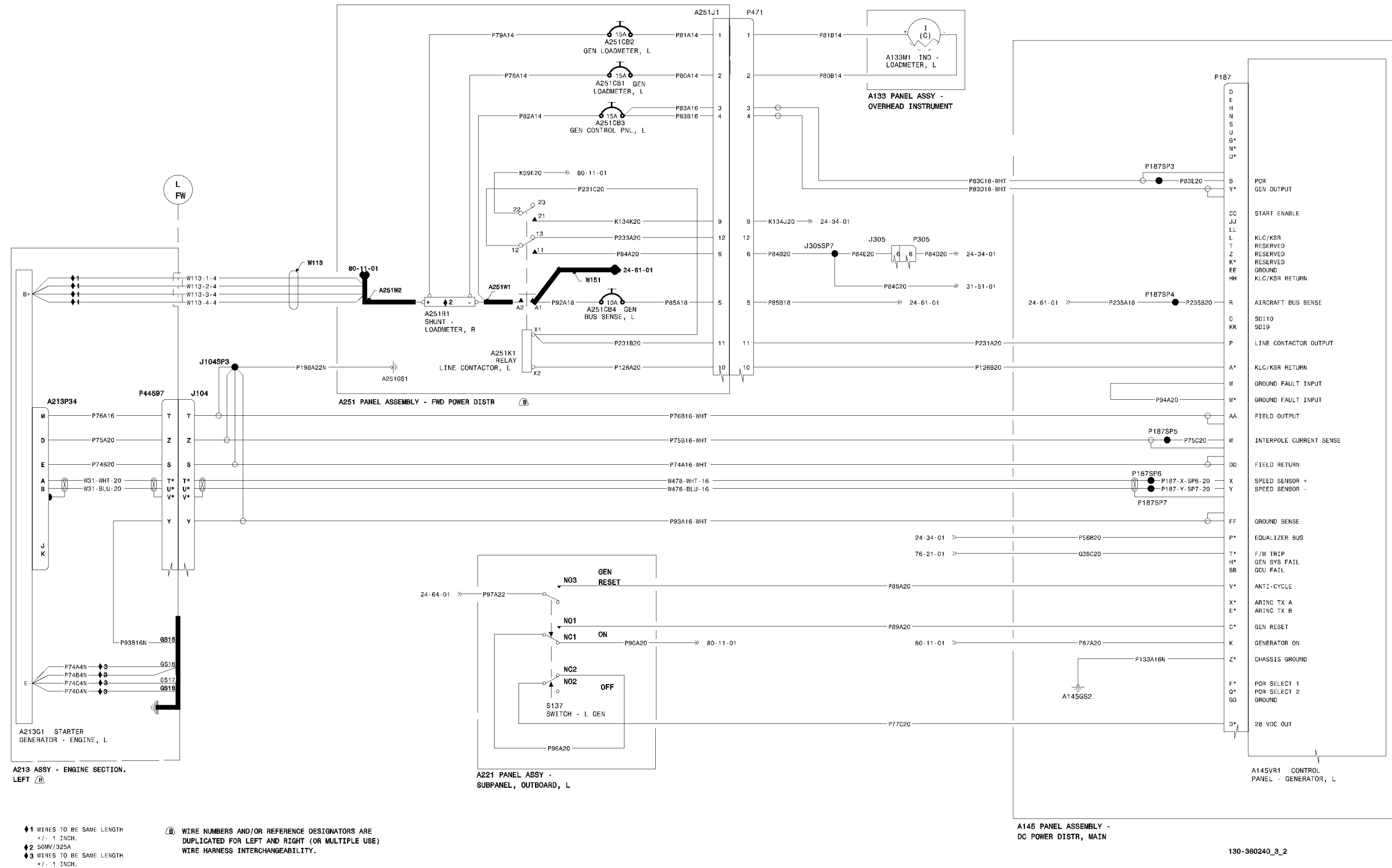
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Figure 01

Page 1

**22-30-01** Dec 02/2022

**BEECHCRAFT®  
MODEL B300/B300C FUSION  
WIRING DIAGRAM MANUAL**

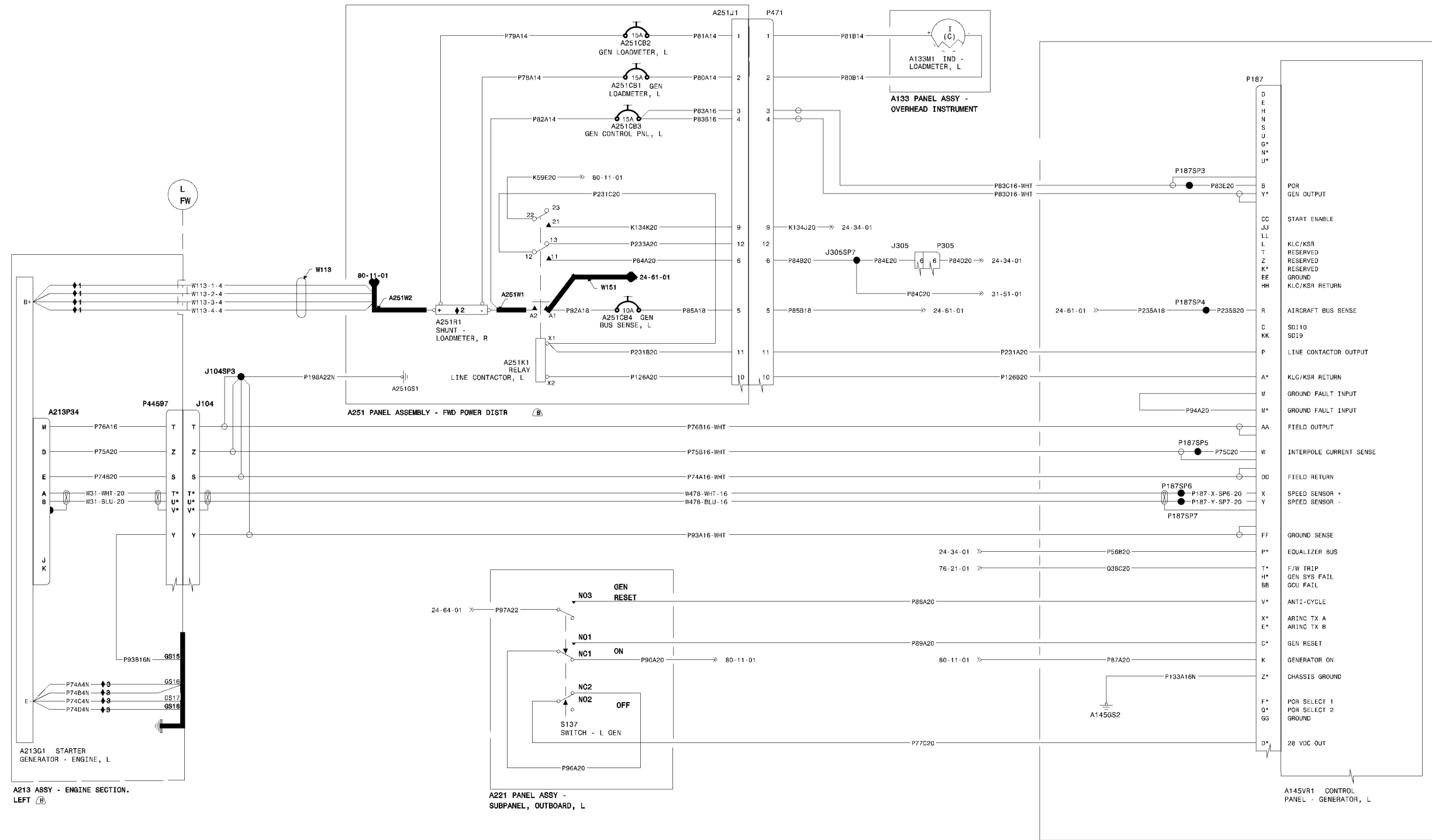


DC GENERATION - LEFT  
Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
02		DC GENERATION - LEFT			
			FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
A133M1		. METER INDICATOR LOADMETER, R (ZONE 253) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-108	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
A145GS2		. GROUND STUD DC PWR DISTR, MAIN (ZONE 143) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-103	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
-	MS25036-108	. . TERMINAL RING TONGUE . . . . .	V70898	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
A251CB1		. CIRCUIT BREAKER . . . . .		FL1300 FL1300	RF R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-107	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
A251CB2		. CIRCUIT BREAKER . . . . .		FL1300 FL1300	RF R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-107	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
A251CB3		. CIRCUIT BREAKER . . . . .		FL1300 FL1300	RF R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-107	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
A251CB4		. CIRCUIT BREAKER . . . . .		FL1300 FL1300	RF R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
A251GS1		. GROUND STUD (ZONE 521) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-103	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A251J1	206036-3	. RECEPTACLE, 17-16P . . . . .	V00779	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	206070-8	. . BACKSHELL . . . . .	V00779		01 R
-	66099-4	. . TERMINAL PIN CONTACT . . . . .	V00779		04 R
-	66103-4	. . TERMINAL PIN CONTACT . . . . .	V00779		06 R
-	66602-2	. . TERMINAL PIN CONTACT . . . . .	V00779		02 R
A251K1		. RELAY LINE CONTACTOR . . . . .		FL1300 FL1300	RF R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	61276-2	. . TERMINAL SOCKET CONTACT . . . . .			05 R
-	MS25036-102	. . TERMINAL RING TONGUE 70898 . . . . .	V70898		02 R
-	MS25036-151	. . TERMINAL RING TONGUE 70898 . . . . .	V70898		01 R
A251R1		. SHUNT LOADMETER, L (ZONE 521) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	1-331420-1	. . TERMINAL RING TONGUE . . . . .			01 R
-	321121	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
-	MS25036-110	. . TERMINAL RING TONGUE . . . . .	V70898	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
-	MS25036-153	. . TERMINAL RING TONGUE . . . . .	V70898	FL1300 FL1300	02 R
				FL1307 FL9999	
				FM0110 FM9999	

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



◆1 WIRES TO BE SAME LENGTH +/- 1 INCH.  
 ◆2 50MW/325A  
 ◆3 WIRES TO BE SAME LENGTH +/- 1 INCH.

ⓑ WIRE NUMBERS AND/OR REFERENCE DESIGNATORS ARE DUPLICATED FOR LEFT AND RIGHT (OR MULTIPLE USE) WIRE HARNESS INTERCHANGEABILITY.

A145 PANEL ASSEMBLY - DC POWER DISTR, MAIN  
 130-360240\_3\_2

DC GENERATION - LEFT  
 Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY FROM TO	UNITS	
				PER ASSY	
		1 2 3 4 5 6 7			
J104	MS3450KT36-10S	. RECEPTACLE . . . . .	V96906	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	310-1620-091	. . TERMINAL SOCKET CONTACT			33 R
-	350AS001N36-3	. . BACKSHELL			01 R
-	D-436-0097	. . SEALING SLEEVE	V06090		01 R
-	D-436-0098	. . SEALING SLEEVE	V06090		02 R
-	L144	. . FIBERFRAX TAPE			01 R
-	M39029/30-218	. . TERMINAL SOCKET CONTACT	V81349		13 R
-	M39029/86-463	. . TERMINAL SOCKET CONTACT ALUMEL	V81349		01 R
-	M39029/86-464	. . TERMINAL SOCKET CONTACT CHROMEL	V81349		01 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		08 R
-	M83519/2-9	. . SHIELD TERMINATION	V81343		01 R
J104SP3	D-436-52	. SPLICE . . . . .	V06090	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
J305	205843-2	. RECEPTACLE CROSSOVER FWD (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	205089-1	. . TERMINAL PIN CONTACT	V06090		50 R
-	206138-8	. . BACKSHELL CROSSOVER FWD	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M83519/2-7	. . SHIELD TERMINATION	V81343		02 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		02 R
J305SP7	M81824/1-2	. SPLICE . . . . .	V81343		01 R
P187	D38999/26FJ4SN	. PLUG . . . . .	V81349	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/56-351	. . TERMINAL SOCKET CONTACT	V81349		48 R
-	M39029/56-352	. . TERMINAL SOCKET CONTACT	V81349		08 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		04 R
-	M85049/38S25N	. . BACKSHELL	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE	V70898		01 R
-	MS25036-153	. . TERMINAL RING TONGUE	V70898		01 R
-	MS27488-16	. . SEALING PLUG	V96906		03 R
-	MS27488-20	. . SEALING PLUG	V96906		27 R
P187SP3	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
P187SP4	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
P187SP5	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		01 R
P187SP6	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	M83519/2-9	. . SHIELD TERMINATION	V81343		01 R
P187SP7	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
P305	205842-1	. PLUG CROSSOVER FWD (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	205090-1	. . TERMINAL SOCKET CONTACT	V00779		49 R
-	206138-8	. . BACKSHELL	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M83519/2-7	. . SHIELD TERMINATION	V81343		02 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		02 R

- ITEM NOT ILLUSTRATED

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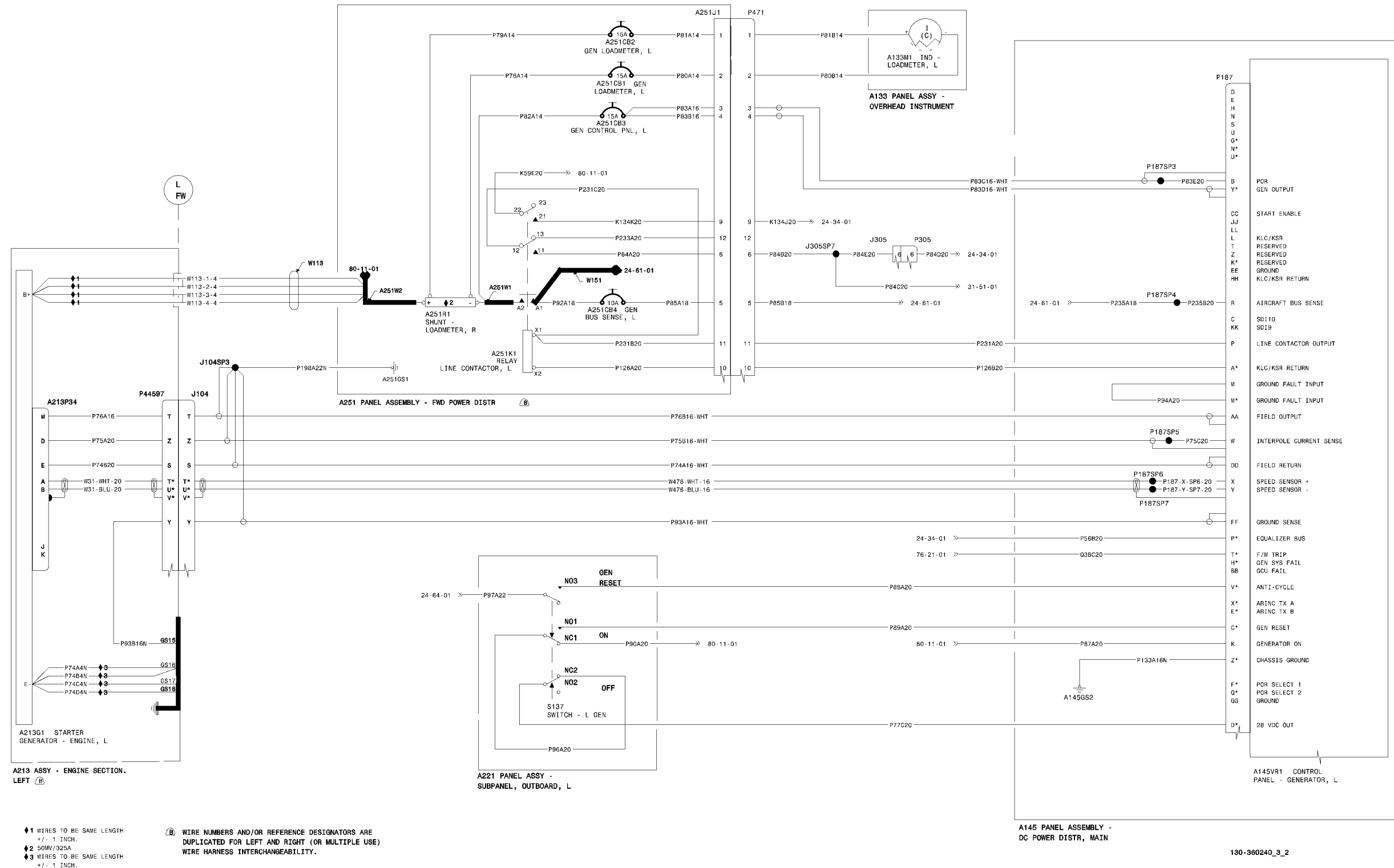
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Figure 02

Page 3

**24-31-01** Dec 02/2022

**BEECHCRAFT®  
MODEL B300/B300C FUSION  
WIRING DIAGRAM MANUAL**

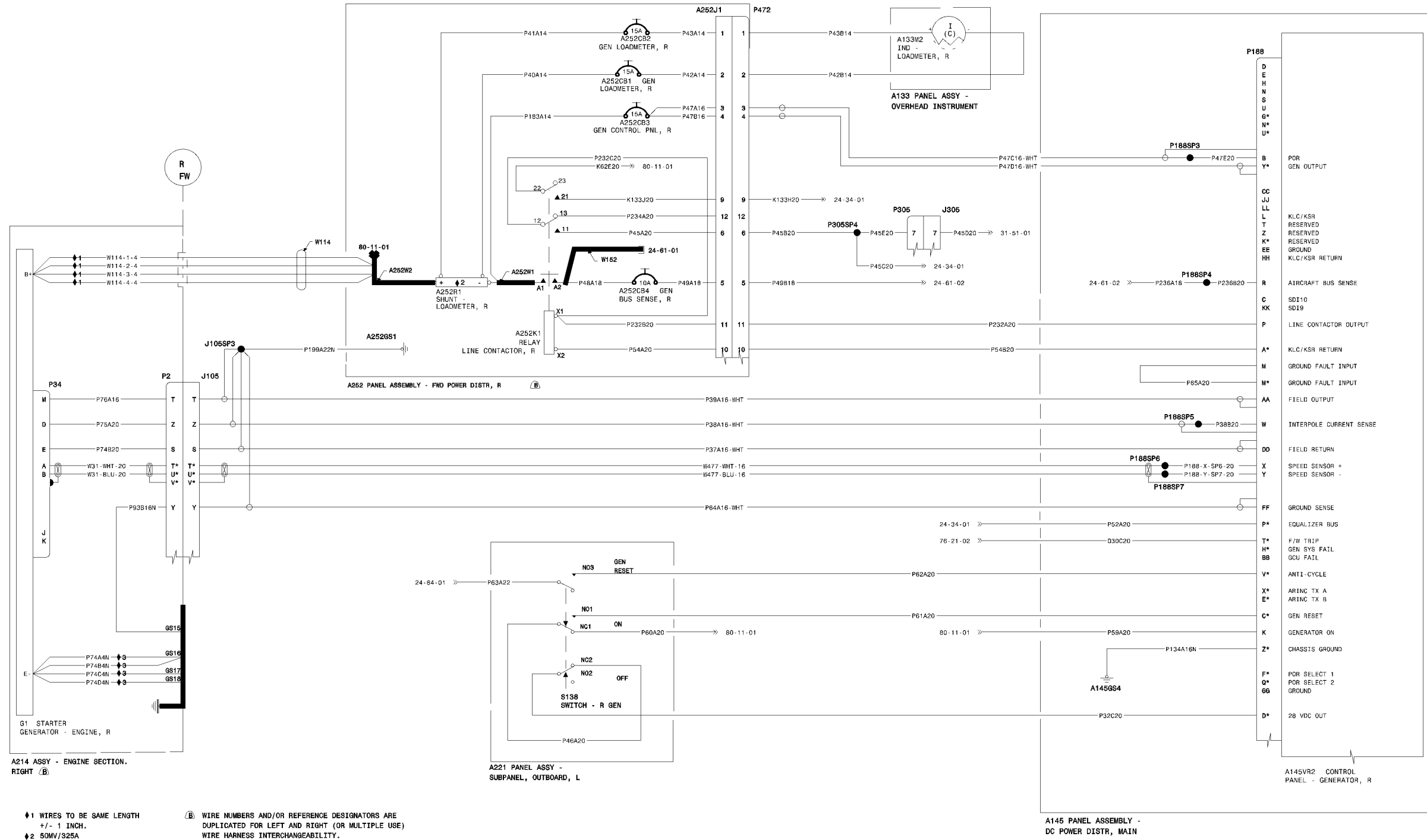


DC GENERATION - LEFT  
Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
			1	2	3
P471	206037-1	. PLUG DC DISTR CONT, L (ZONE 521) . . . . .		V00779	01 R
-	131741-3	. . MARKER BAND		V70898	01 R
-	206070-1	. . BACKSHELL		V00779	01 R
-	52672	. . FIRE RESISTANT TAPE		V02988	01 R
-	66101-4	. . TERMINAL SOCKET CONTACT		V00779	04 R
-	66105-4	. . TERMINAL SOCKET CONTACT		V00779	05 R
-	66360-4	. . TERMINAL SOCKET CONTACT		V00779	02 R
-	D-436-0097	. . SEALING SLEEVE		V06090	02 R
S137		. SWITCH, TOGGLE SPDT (3) GEN CONTROL, L (ZONE 245) . . . . .			RF R
-	106242C42	. . HEATSHRINK		V70898	08 R
-	SOLDER	. . TERMINAL CONTACT		V81349	08 R

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



◆1 WIRES TO BE SAME LENGTH +/- 1 INCH.  
 ◆2 50M/325A  
 ◆3 WIRES TO BE SAME LENGTH +/- 1 INCH.

(B) WIRE NUMBERS AND/OR REFERENCE DESIGNATORS ARE DUPLICATED FOR LEFT AND RIGHT (OR MULTIPLE USE) WIRE HARNESS INTERCHANGEABILITY.

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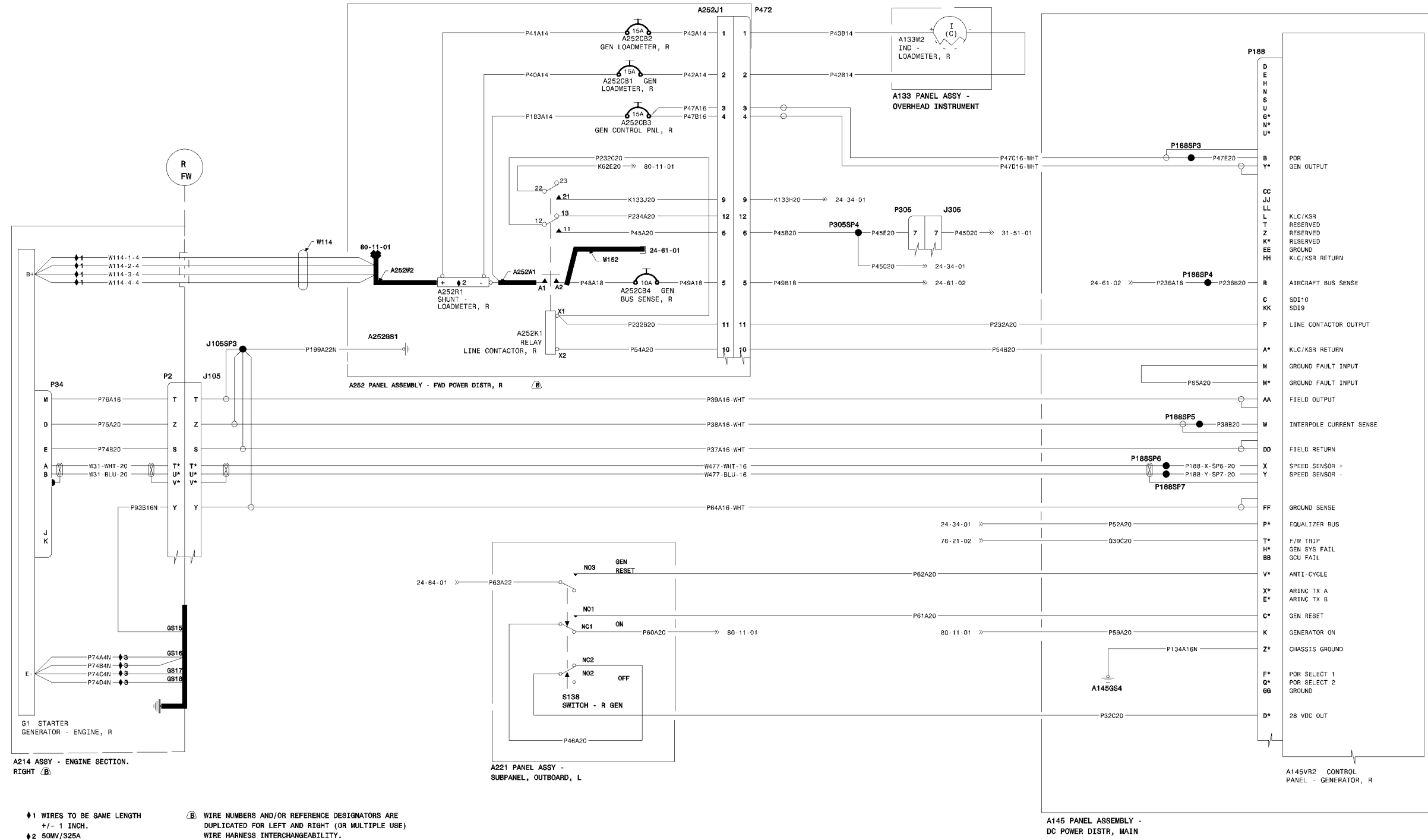
DC GENERATION - RIGHT  
 Figure 02 (Sheet 1)



BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
02		DC GENERATION - RIGHT			
			FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
A133M2		. METER INDICATOR LOADMETER, R (ZONE 253) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-108	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
A145GS4		. GROUND STUD DC PWR DISTR, MAIN (ZONE 143) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-103	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
-	MS25036-108	. . TERMINAL RING TONGUE . . . . .	V70898	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
A252CB1		. CIRCUIT BREAKER . . . . .		FL1300 FL1300	RF R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-107	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
A252CB2		. CIRCUIT BREAKER . . . . .		FL1300 FL1300	RF R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-107	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
A252CB3		. CIRCUIT BREAKER . . . . .		FL1300 FL1300	RF R
				FL1307 FL9999	
				FM0110 FM9999	
	131741-1	. . MARKER BAND . . . . .	V70898		01 R
	MS25036-107	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
A252CB4		. CIRCUIT BREAKER . . . . .		FL1300 FL1300	RF R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
A252GS1		. GROUND STUD . . . . .		FL1300 FL1300	RF R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-103	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A252J1	206036-3	. RECEPTACLE, 17-16P . . . . .	V00779	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	206070-8	. . BACKSHELL . . . . .	V00779		01 R
-	66099-4	. . TERMINAL PIN CONTACT . . . . .	V00779		04 R
-	66103-4	. . TERMINAL PIN CONTACT . . . . .	V00779		06 R
-	66602-2	. . TERMINAL PIN CONTACT . . . . .	V00779		02 R
A252K1		. RELAY LINE CONTACTOR . . . . .		FL1300 FL1300	RF R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	61276-2	. . TERMINAL SOCKET CONTACT . . . . .			05 R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
-	MS25036-151	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A252R1		. SHUNT LOADMETER, R (ZONE 621) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	1-331420-1	. . TERMINAL RING TONGUE . . . . .			01 R
-	321121	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
-	MS25036-110	. . TERMINAL RING TONGUE . . . . .	V70898	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
-	MS25036-153	. . TERMINAL RING TONGUE . . . . .	V70898	FL1300 FL1300	02 R
				FL1307 FL9999	
				FM0110 FM9999	

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



◆1 WIRES TO BE SAME LENGTH +/- 1 INCH.  
 ◆2 50M/325A  
 ◆3 WIRES TO BE SAME LENGTH +/- 1 INCH.

(B) WIRE NUMBERS AND/OR REFERENCE DESIGNATORS ARE DUPLICATED FOR LEFT AND RIGHT (OR MULTIPLE USE) WIRE HARNESS INTERCHANGEABILITY.

130-360240\_3\_3

DC GENERATION - RIGHT  
 Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY FROM TO	UNITS	
				PER ASSY	
		1 2 3 4 5 6 7			
J105	MS3450KT36-10S	. RECEPTACLE . . . . .	V96906	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	310-1620-091	. . . TERMINAL SOCKET CONTACT			33 R
-	350AS001N36-3	. . . BACKSHELL			01 R
-	D-436-0097	. . . SEALING SLEEVE	V06090		01 R
-	D-436-0098	. . . SEALING SLEEVE	V06090		02 R
-	L144	. . . FIBERFRAX TAPE			01 R
-	M39029/30-218	. . . TERMINAL SOCKET CONTACT	V81349		13 R
-	M39029/86-463	. . . TERMINAL SOCKET CONTACT ALUMEL	V81349		01 R
-	M39029/86-464	. . . TERMINAL SOCKET CONTACT CHROMEL	V81349		01 R
-	M83519/2-8	. . . SHIELD TERMINATION	V81343		08 R
-	M83519/2-9	. . . SHIELD TERMINATION	V81343		01 R
J105SP3	D-436-52	. SPLICE . . . . .	V06090	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
J305	205843-2	. RECEPTACLE CROSSOVER FWD (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . . MARKER BAND	V70898		01 R
-	205089-1	. . . TERMINAL PIN CONTACT	V06090		50 R
-	206138-8	. . . BACKSHELL CROSSOVER FWD	V06090		01 R
-	52672	. . . FIRE RESISTANT TAPE	V02988		01 R
-	M83519/2-7	. . . SHIELD TERMINATION	V81343		02 R
-	M83519/2-8	. . . SHIELD TERMINATION	V81343		02 R
P188	D38999/26FJ4SN	. PLUG CONTROLL PANEL GENERATOR, RIGHT . . . . .	V81349	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	131741-3	. . . MARKER BAND	V70898		01 R
-	52672	. . . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/56-351	. . . TERMINAL SOCKET CONTACT	V81349		48 R
-	M39029/56-352	. . . TERMINAL SOCKET CONTACT	V81349		08 R
-	M83519/2-8	. . . SHIELD TERMINATION	V81343		04 R
-	M85049/38S25N	. . . BACKSHELL	V81349		01 R
-	MS25036-149	. . . TERMINAL RING TONGUE	V70898		01 R
-	MS25036-153	. . . TERMINAL RING TONGUE	V70898		01 R
-	MS27488-16	. . . SEALING PLUG	V96906		03 R
-	MS27488-20	. . . SEALING PLUG	V96906		27 R
P188SP3	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	M83519/2-8	. . . SHIELD TERMINATION	V81343		01 R
P188SP4	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
P188SP5	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	M83519/2-8	. . . SHIELD TERMINATION	V81343		01 R
P188SP6	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	M83519/2-9	. . . SHIELD TERMINATION	V81343		01 R
P188SP7	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
P305	205842-1	. PLUG CROSSOVER FWD (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . . MARKER BAND	V70898		01 R
-	205090-1	. . . TERMINAL SOCKET CONTACT	V00779		49 R
-	206138-8	. . . BACKSHELL	V06090		01 R
-	52672	. . . FIRE RESISTANT TAPE	V02988		01 R
-	M83519/2-7	. . . SHIELD TERMINATION	V81343		02 R
-	M83519/2-8	. . . SHIELD TERMINATION	V81343		02 R

- ITEM NOT ILLUSTRATED

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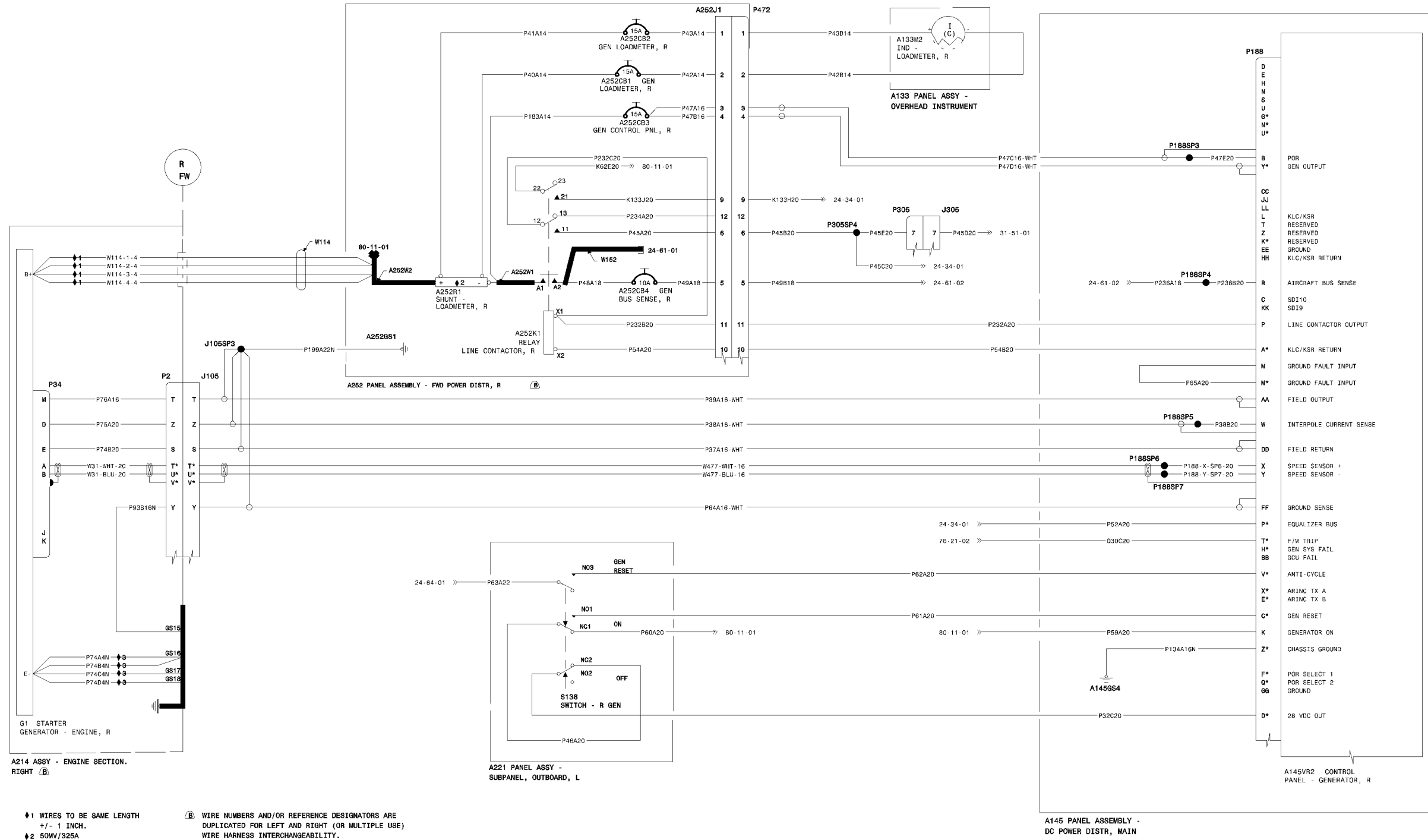
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Figure 02

Page 3

**24-31-02** Dec 02/2022

**BEECHCRAFT®  
MODEL B300/B300C FUSION  
WIRING DIAGRAM MANUAL**



◆1 WIRES TO BE SAME LENGTH +/- 1 INCH.  
 ◆2 50M/325A  
 ◆3 WIRES TO BE SAME LENGTH +/- 1 INCH.

(B) WIRE NUMBERS AND/OR REFERENCE DESIGNATORS ARE DUPLICATED FOR LEFT AND RIGHT (OR MULTIPLE USE) WIRE HARNESS INTERCHANGEABILITY.

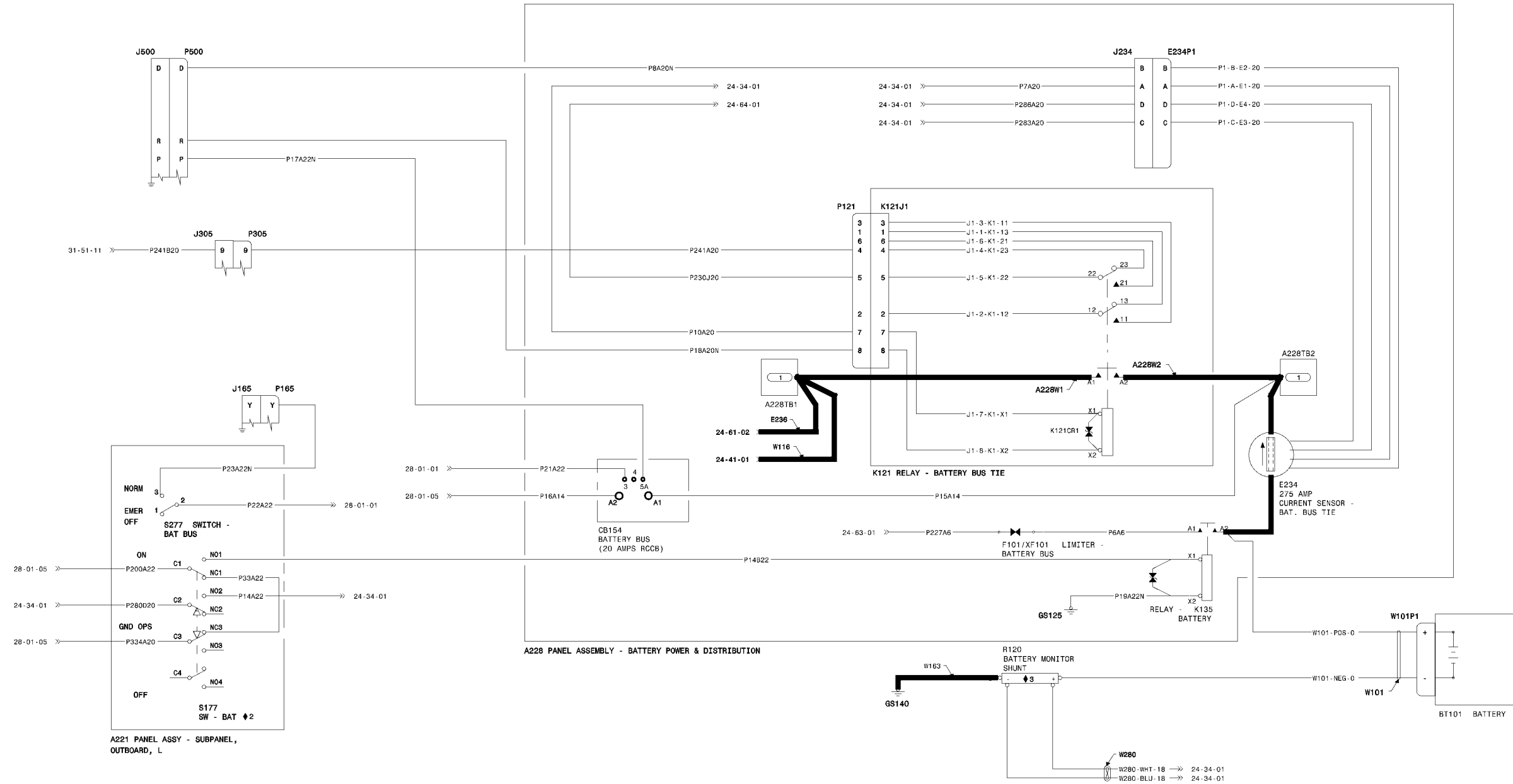
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DC GENERATION - RIGHT  
Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS				
			FROM	TO	PER ASSY				
			1	2	3	4	5	6	7
P472	206037-1	. PLUG DC DISTR CONT, R (ZONE 621) . . . . .			V00779				01 R
-	131741-3	. . MARKER BAND			V70898				01 R
-	206070-1	. . BACKSHELL			V00779				01 R
-	52672	. . FIRE RESISTANT TAPE			V02988				01 R
-	66101-4	. . TERMINAL SOCKET CONTACT			V00779				04 R
-	66105-4	. . TERMINAL SOCKET CONTACT			V00779				05 R
-	66360-4	. . TERMINAL SOCKET CONTACT			V00779				02 R
-	D-436-0097	. . SEALING SLEEVE			V06090				02 R
S138		. SWITCH, TOGGLE SPDT (3) GEN CONTROL, R (ZONE 245) . . . . .							RF R
-	106242C42	. . HEATSHRINK			V70898				08 R
-	SOLDER	. . TERMINAL CONTACT			V81349				08 R

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



◆3 50mV/250 A  
 ◆2 SWITCH SHOWN IN CENTER POS.  
 (GND OPS)

130-380240\_1\_4

BATTERY  
 Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
02		BATTERY	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
A228TB2		. TERMINAL BOARD . . . . .	FL1300	FL1300	RF R
			FL1307	FL9999	
			FM0110	FM9999	
-	131287-1	. . LABEL STOCK			01 R
-	MS25036-110	. . TERMINAL RING TONGUE	V70898		01 R
CB154		. REMOTE CONTROL CIRCUIT BREAKER (20 AMP) BATT BUS (ZONE 611) . . . . .			RF R
-	131741-1	. . MARKER BAND	V70898		01 R
-	M39029/1-101	. . TERMINAL PIN CONTACT	V81349		02 R
-	MS25036-108	. . TERMINAL RING TONGUE	V70898		01 R
F101		. FUSE LIMITER (60 AMP) BATT BUS (ZONE 611) . . . . .			RF R
-	131287-1	. . LABEL STOCK			01 R
-	131741-1	. . MARKER BAND	V70898		01 R
-	323196	. . TERMINAL RING TONGUE	V70898		01 R
GS125		. GROUND STUD (ZONE 611) . . . . .			RF R
-	131287-1	. . LABEL STOCK			01 R
-	MS25036-103	. . TERMINAL RING TONGUE	V70898		01 R
J234	207573-1	. RECEPTACLE, 7 POSITION BATT BUS TIE CURRENT SNSR (ZONE 611) . . . . .	V00779		01 R
-	106242C31	. . HEAT SHRINK TUBING	V70898		04 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	66103-4	. . TERMINAL PIN CONTACT	V00779		04 R
J305	205843-2	. RECEPTACLE CROSSOVER FWD (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	205089-1	. . TERMINAL PIN CONTACT	V06090		50 R
-	206138-8	. . BACKSHELL CROSSOVER FWD	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M83519/2-7	. . SHIELD TERMINATION	V81343		02 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		02 R
K121K1		. RELAY (200 AMP) SPST BATT BUS TIE (ZONE 611) . . . . .			RF R
-	131287-1	. . LABEL STOCK			01 R
-	MS25036-110	. . TERMINAL RING TONGUE	V70898		01 R
K135		. RELAY (200 AMP) SPST BATT (ZONE 611) . . . . .			RF R
-	131287-1	. . LABEL STOCK			01 R
-	131741-1	. . MARKER BAND	V70898		01 R
-	MS25036-102	. . TERMINAL RING TONGUE	V70898		01 R
-	MS25036-122	. . PLUG 1	V70898		01 R
K135-A2		. RELAY (200 AMP) SPST BATT . . . . .			RF R
-	106242F50-00208	. . HEATSHRINK			AR R
-	131741-1	. . MARKER BAND	V70898		01 R
-	321066	. . TERMINAL RING TONGUE			AR R
P121	208678-1	. PLUG, 8 POSITION BATT BUS TIE RELAY (ZONE 611) . . . . .	V00779		01 R
-	106242C31	. . HEAT SHRINK TUBING	V70898		04 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		08 R
-	MS27488-16	. . SEALING PLUG	V96906		04 R
P165	200838-3	. RECEPTACLE, 34 POSITION SUBPANEL GND, L (ZONE 231) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	201224-1	. . BACKSHELL	V00779		01 R
-	203618-1	. . JACKSCREW	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		15 R
P305	205842-1	. PLUG CROSSOVER FWD (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	205090-1	. . TERMINAL SOCKET CONTACT	V00779		49 R
-	206138-8	. . BACKSHELL	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M83519/2-7	. . SHIELD TERMINATION	V81343		02 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		02 R

- ITEM NOT ILLUSTRATED

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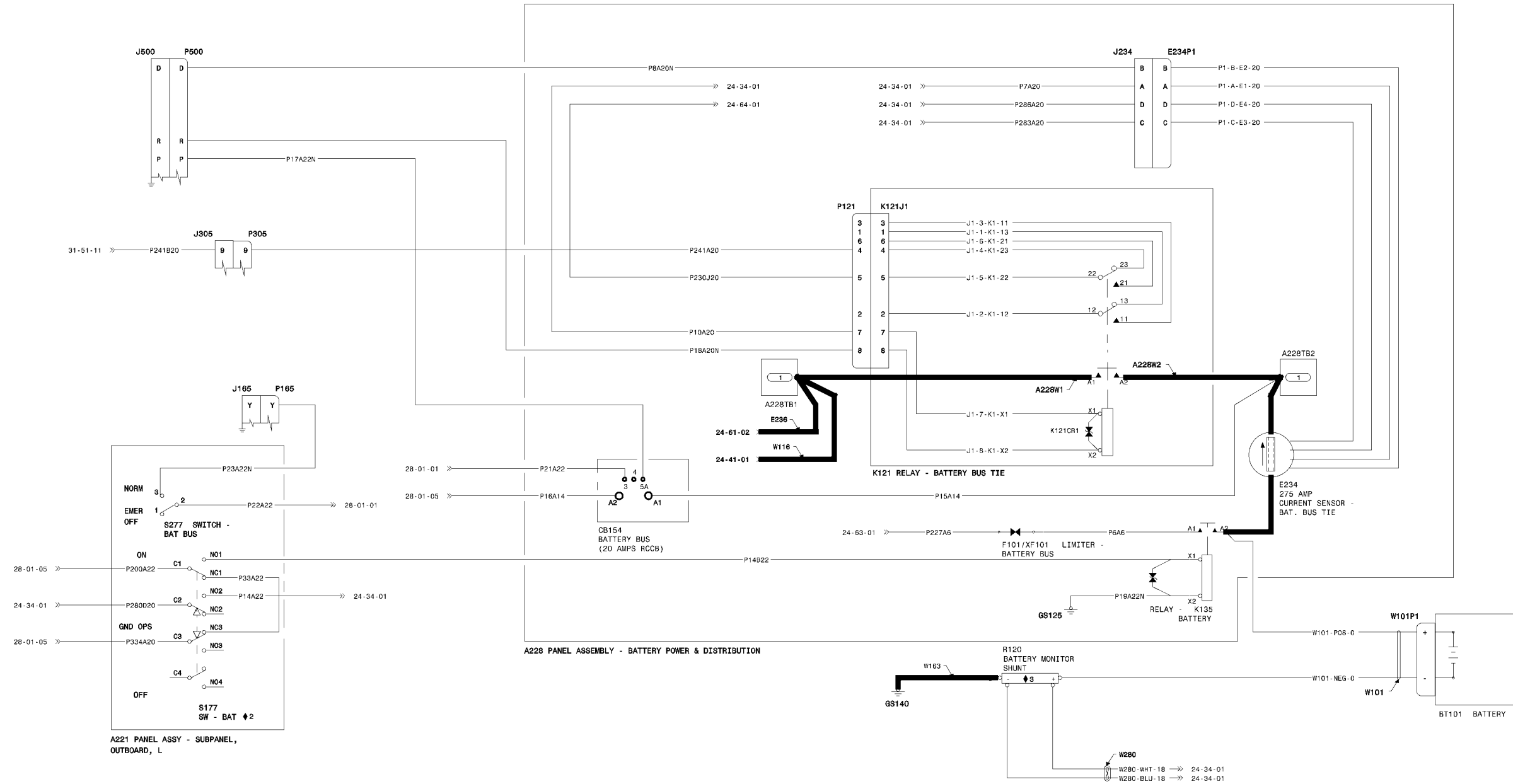
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Figure 02

Page 1

**24-33-01** Dec 02/2022

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



◆3 50mV/250 A  
 ◆2 SWITCH SHOWN IN CENTER POS.  
 (GND OPS)

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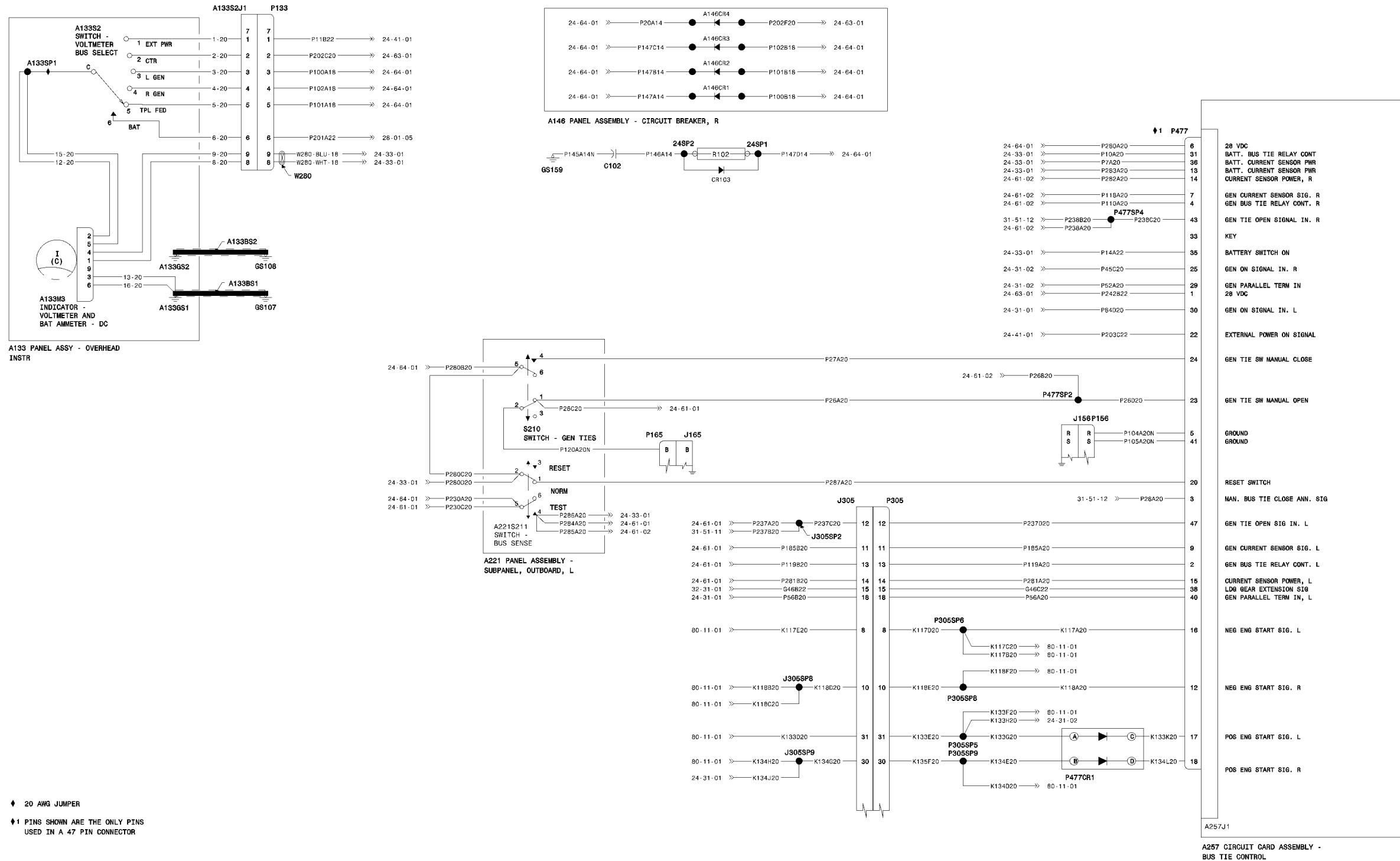
BATTERY  
 Figure 02 (Sheet 1)



BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
P500	201298-3	. RECPTACLE 14 POSITION CENTER SECTION GND, R (ZONE 511) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	200686-1	. . BACKSHELL . . . . .	V00779		01 R
-	203535-1	. . JACKSCREW . . . . .	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		12 R
R120-3		. SHUNT RESISTOR BATT . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-133	. . TERMINAL RING TONGUE . . . . .			AR R
R120		. SHUNT RESISTOR . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	D-436-0098	. . SEALING SLEEVE . . . . .	V06090		01 R
-	MS25036-149	. . TERMINAL RING TONGUE . . . . .	V96906		02 R
S177		. SWITCH, TOGGLE UNSEALED (7.0 AMP) BATTERY (ZONE 245) . . . . .			RF R
-	106242C42	. . HEATSHRINK . . . . .	V70898		07 R
-	SOLDER	. . TERMINAL CONTACT . . . . .	V81349		07 R
S277		. SWITCH, TOGGLE ONE POLE BATT BUS (ZONE 245) . . . . .			RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
W101P1	MS3349-2	. PLUG BATT (ZONE 611) . . . . .	V81349		01 R
-	106242C47-00400	. . HEATSHRINK . . . . .	V70898		01 R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	520045-1	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
-	F900	. . TORQUE SEAL COMPOUND . . . . .			02 R

# BEECHCRAFT® MODEL B300/B300C FUSION WIRING DIAGRAM MANUAL



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BUS TIE CONTROL  
Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
02		BUS TIE CONTROL	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
24SP1	M81824/1-3	. SPLICE . . . . .	V81343		01 R
-	106242C45	. . HEATSHRINK . . . . .	V70898		06 R
-	B130-20	. . TUBING VINYL COATED FIBERGLASS . . . . .	V71002		02 R
24SP2	M81824/1-3	. SPLICE . . . . .	V81343		01 R
-	B130-20	. . TUBING VINYL COATED FIBERGLASS . . . . .	V71002		02 R
A146CR1		. DIODE (ZONE 246). . . . .			RF R
-	106242C42	. . HEATSHRINK ANODE . . . . .	V70898		01 R
-	MS25036-108	. . TERMINAL RING TONGUE CATHODE . . . . .	V70898		01 R
A146CR2		. DIODE (ZONE 246). . . . .			RF R
-	106242C42	. . HEATSHRINK ANODE . . . . .	V70898		01 R
-	MS25036-108	. . TERMINAL RING TONGUE CATHODE . . . . .	V70898		01 R
A146CR3		. DIODE (ZONE 246). . . . .			RF R
-	106242C42	. . HEATSHRINK ANODE . . . . .	V70898		01 R
-	MS25036-108	. . TERMINAL RING TONGUE CATHODE . . . . .	V70898		01 R
A146CR4		. DIODE (ZONE 246). . . . .			RF R
-	106242C42	. . HEATSHRINK ANODE . . . . .	V70898		01 R
-	MS25036-108	. . TERMINAL RING TONGUE CATHODE . . . . .	V70898		01 R
C102		. CAPACITOR TRIPLE BUS (ZONE 246) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-108	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
CR103	1N5404	. DIODE (ZONE 246). . . . .	V07688		01 R
GS159		. GROUND STUD CB PNL, R (ZONE 246) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-108	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
J305	205843-2	. RECEPTACLE CROSSOVER FWD (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	205089-1	. . TERMINAL PIN CONTACT . . . . .	V06090		50 R
-	206138-8	. . BACKSHELL CROSSOVER FWD . . . . .	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M83519/2-7	. . SHIELD TERMINATION . . . . .	V81343		02 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
J305SP2	M81824/1-2	. SPLICE . . . . .	V81343		01 R
J305SP8	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
J305SP9	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
P133	206708-1	. RECEPTACLE, 9 POSITION OVRHD INSTR SELECT SW (ZONE 253) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	206966-1	. . BACKSHELL . . . . .	V00779		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		05 R
-	66105-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		03 R
-	D-436-0098	. . SEALING SLEEVE . . . . .	V06090		01 R
P156	200838-3	. RECEPTACLE, 34 POSITION RELAY GND, R (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	201224-1	. . BACKSHELL . . . . .	V00779		01 R
-	203618-1	. . JACKSCREW . . . . .	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		02 R
-	66105-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		27 R
P165	200838-3	. RECEPTACLE, 34 POSITION SUBPANEL GND, L (ZONE 231) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	201224-1	. . BACKSHELL . . . . .	V00779		01 R
-	203618-1	. . JACKSCREW . . . . .	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		15 R

- ITEM NOT ILLUSTRATED

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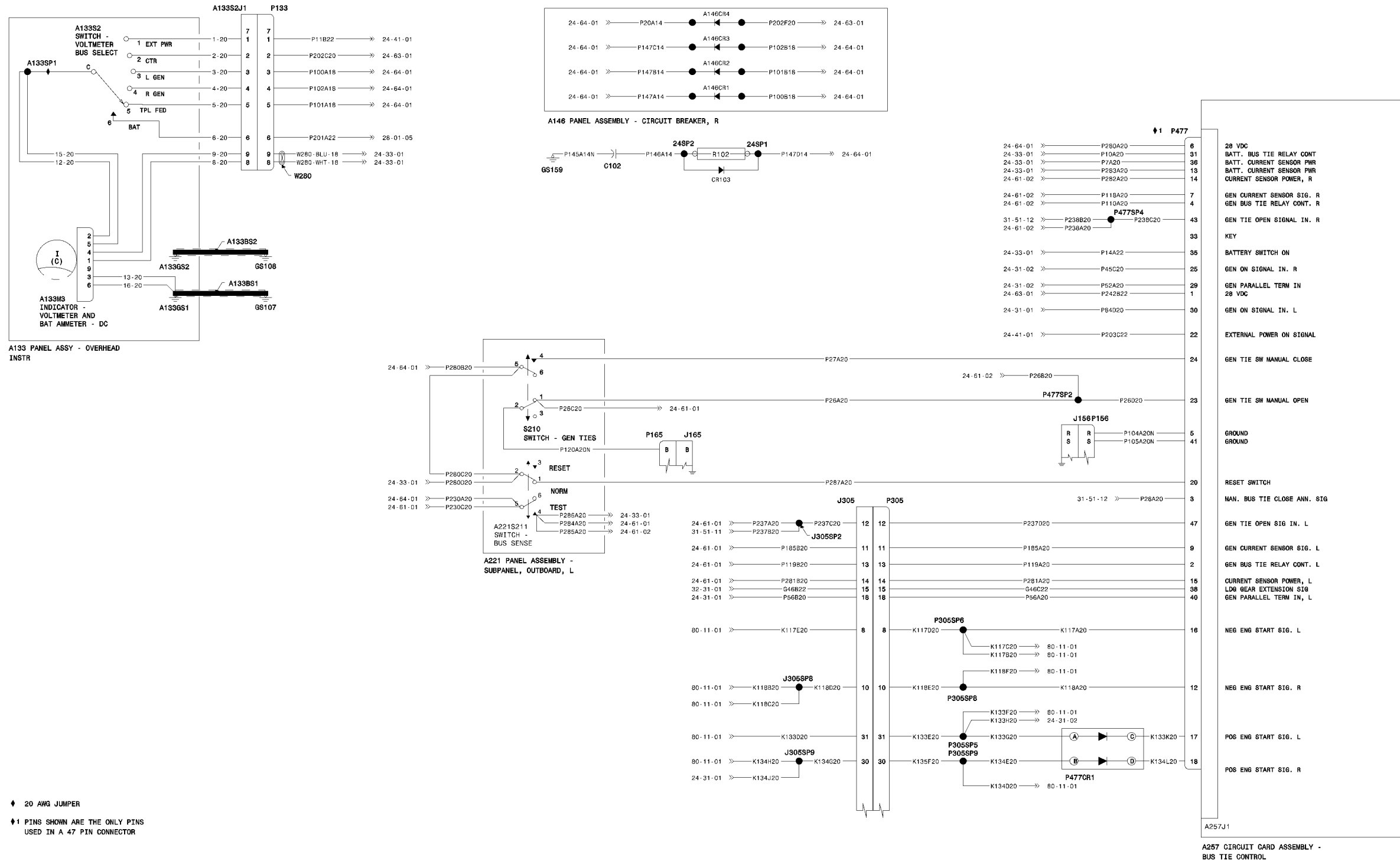
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Figure 02

Page 1

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# BEECHCRAFT® MODEL B300/B300C FUSION WIRING DIAGRAM MANUAL



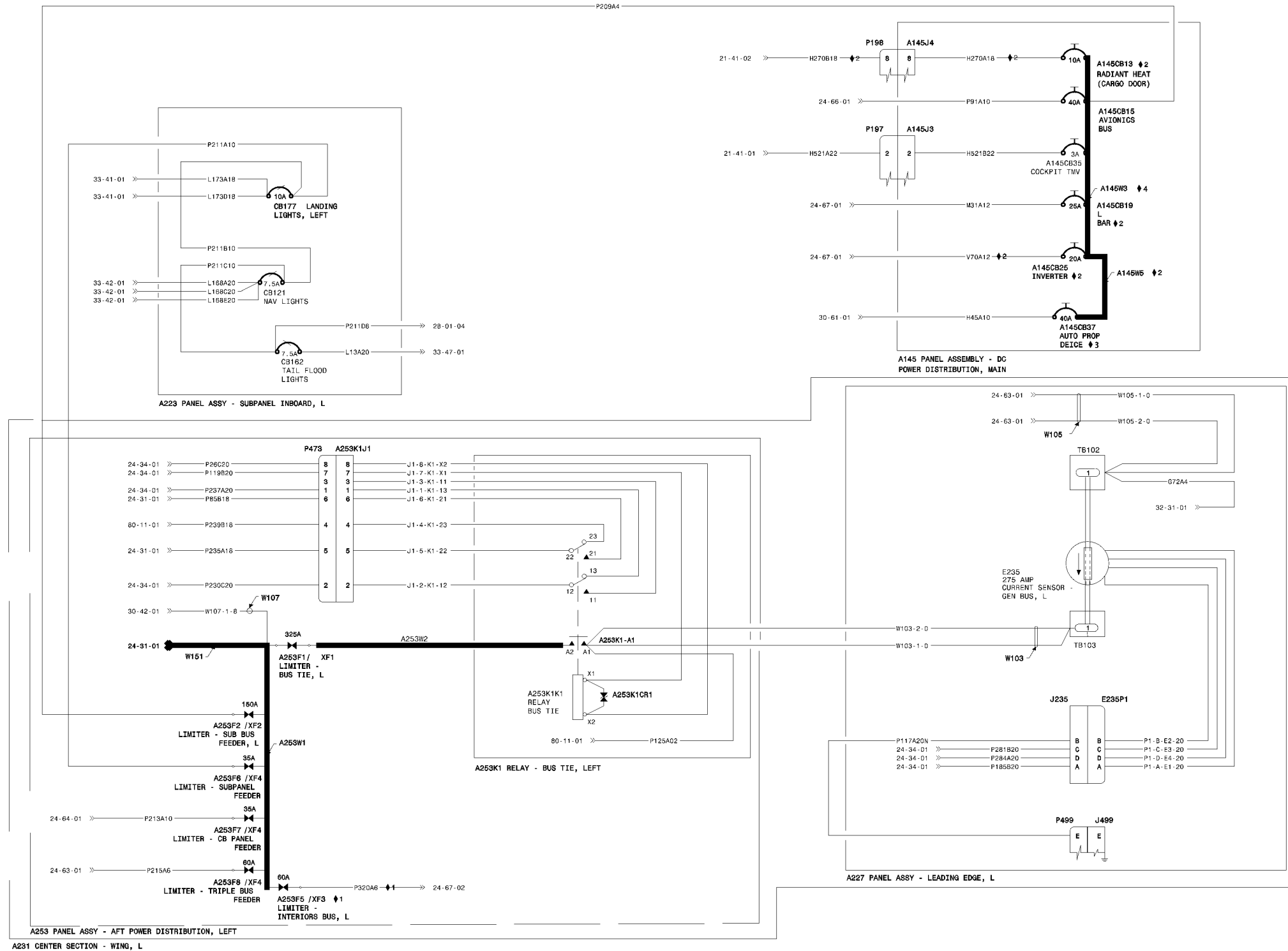
◆ 20 AWG JUMPER  
◆! PINS SHOWN ARE THE ONLY PINS USED IN A 47 PIN CONNECTOR

BUS TIE CONTROL  
Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
P305	205842-1	. PLUG CROSSOVER FWD (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	205090-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779		49 R
-	206138-8	. . BACKSHELL . . . . .	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M83519/2-7	. . SHIELD TERMINATION . . . . .	V81343		02 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
P305SP5	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
P305SP6	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
P305SP8	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
P305SP9	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
P477	3-582307-1	. RECEPTACLE BUS TIE CONT (ZONE 143) . . . . .			01 R
-	101-364221-97	. . DECAL INDENT ELECTRONIC MODULES . . . . .			01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	1-582156-9	. . KEYING CONTACT . . . . .	V00779		01 R
-	66010-2	. . TERMINAL CONTACT . . . . .	V00779		30 R
P477SP2	M81824/1-2	. SPLICE . . . . .	V81343		01 R
P477SP4	M81824/1-2	. SPLICE . . . . .	V81343		01 R
R102	132371D15R0EBC	. RESISTOR (ZONE 246) . . . . .			01 R
S210		. SWITCH, TOGGLE TWO POLE GEN TIE (ZONE 245) . . . . .			RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898		04 R
S211		. SWITCH, TOGGLE TWO POLE BUS SNSR (ZONE 245) . . . . .			RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898		03 R
-	MS25036-107	. . TERMINAL RING TONGUE . . . . .	V70898		01 R

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



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LEFT DC GEN BUS AND SUB BUS  
 Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
02		LEFT DC GEN BUS AND SUB BUS	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
A145CB13		. CIRCUIT BREAKER . . . . .			RF R
		FM SERIAL ONLY			
-	MS25036-149	. . TERMINAL RING TONGUE	V70898		01 R
A145CB15		. CIRCUIT BREAKER AVIONICS BUS FEEDER (ZONE 143) . . . . .			RF R
-	131741-1	. . MARKER BAND	V70898		01 R
-	324111	. . TERMINAL RING TONGUE	V70898		01 R
A145CB19		. CIRCUIT BREAKER . . . . .			RF R
		FM SERIALS ONLY			
-	MS25036-156	. . TERMINAL RING TONGUE	V70898		01 R
A145CB25		. CIRCUIT BREAKER . . . . .			RF R
		FM SERIALS ONLY			
-	MS25036-156	. . TERMINAL RING TONGUE	V70898		01 R
A145CB35		. CIRCUIT BREAKER . . . . .		FL1300 FL1300	RF R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-1	. . MARKER BAND	V70898		01 R
-	MS25036-149	. . TERMINAL RING TONGUE	V96906		01 R
A145CB37		. CIRCUIT BREAKER AUTO PROP DEICE (ZONE 143) . . . . .			RF R
-	MS25036-156	. . TERMINAL RING TONGUE	V70898		01 R
A145J3	206036-1	. RECPTACLE 17-16 RCPT DC PWR DISTR, L (ZONE 143) . . . . .	V00779		01 R
-	66099-4	. . TERMINAL PIN CONTACT	V00779		05 R
-	66103-4	. . TERMINAL PIN CONTACT	V00779		07 R
-	66361-4	. . TERMINAL PIN CRIMP			04 R
A145J4	206036-1	. RECPTACLE 17-16 RCPT DC PWR DISTR, R (ZONE 143) . . . . .	V00779		01 R
-	66099-4	. . TERMINAL PIN CONTACT	V00779		01 R
-	66103-4	. . TERMINAL PIN CONTACT	V00779		11 R
-	66361-4	. . TERMINAL PIN CRIMP			04 R
A253F1		. FUSE LIMITER (250 AMP) BUS TIE, L (ZONE 521) . . . . .			RF R
-	131287-1	. . LABEL STOCK			01 R
-	MS25036-116	. . TERMINAL RING TONGUE	V70898		01 R
A253F2		. FUSE LIMITER (150 AMP) SUB BUS FEEDER, L (ZONE 521) . . . . .			RF R
-	131741-1	. . MARKER BAND	V70898		01 R
-	MS25036-124	. . TERMINAL RING TONGUE	V70898		01 R
A253F5		. FUSE LIMITER (60 AMP) INTERIORS BUS, L . . . . .			RF R
		FL SERIALS ONLY			
-	131741-1	. . MARKER BAND	V70898		01 R
-	MS25036-119	. . TERMINAL RING TONGUE	V70898		01 R
A253F6		. FUSE LIMITER (35 AMP) SUBPANEL FEEDER (ZONE 521) . . . . .			RF R
-	131741-1	. . MARKER BAND	V70898		01 R
-	MS25036-112	. . TERMINAL RING TONGUE	V70898		01 R
A253F7		. FUSE LIMITER (35 AMP) CB FEEDER (ZONE 521) . . . . .			RF R
-	131741-1	. . MARKER BAND	V70898		01 R
-	MS25036-112	. . TERMINAL RING TONGUE	V70898		01 R
A253F8		. FUSE LIMITER (60 AMP) TRIPLE BUS FEEDER, L (ZONE 521) . . . . .			RF R
-	131741-1	. . MARKER BAND	V70898		01 R
-	MS25036-119	. . TERMINAL RING TONGUE	V70898		01 R
A253	106242F50-00500	. HEATSHRINK (ZONE 521) . . . . .	V70898		01 R
K1-A1					
-	131287-1	. . LABEL STOCK			02 R
-	321584	. . TERMINAL RING TONGUE			01 R
-	322908	. . TERMINAL RING TONGUE	V70898		02 R
CB121		. CIRCUIT BREAKER NAV LIGHTS (ZONE 245) . . . . .			RF R
-	MS25036-153	. . TERMINAL RING TONGUE	V70898		01 R
-	MS25036-156	. . TERMINAL RING TONGUE	V70898		02 R
CB162		. CIRCUIT BREAKER TAIL FLOODLIGHTS (ZONE 621) . . . . .			RF R
-	106242C44	. . HEATSHRINK	V70898		01 R
-	324061	. . TERMINAL RING TONGUE	V00779		01 R
-	MS25036-149	. . TERMINAL RING TONGUE	V70898		01 R
-	MS25036-156	. . TERMINAL RING TONGUE	V70898		01 R

- ITEM NOT ILLUSTRATED

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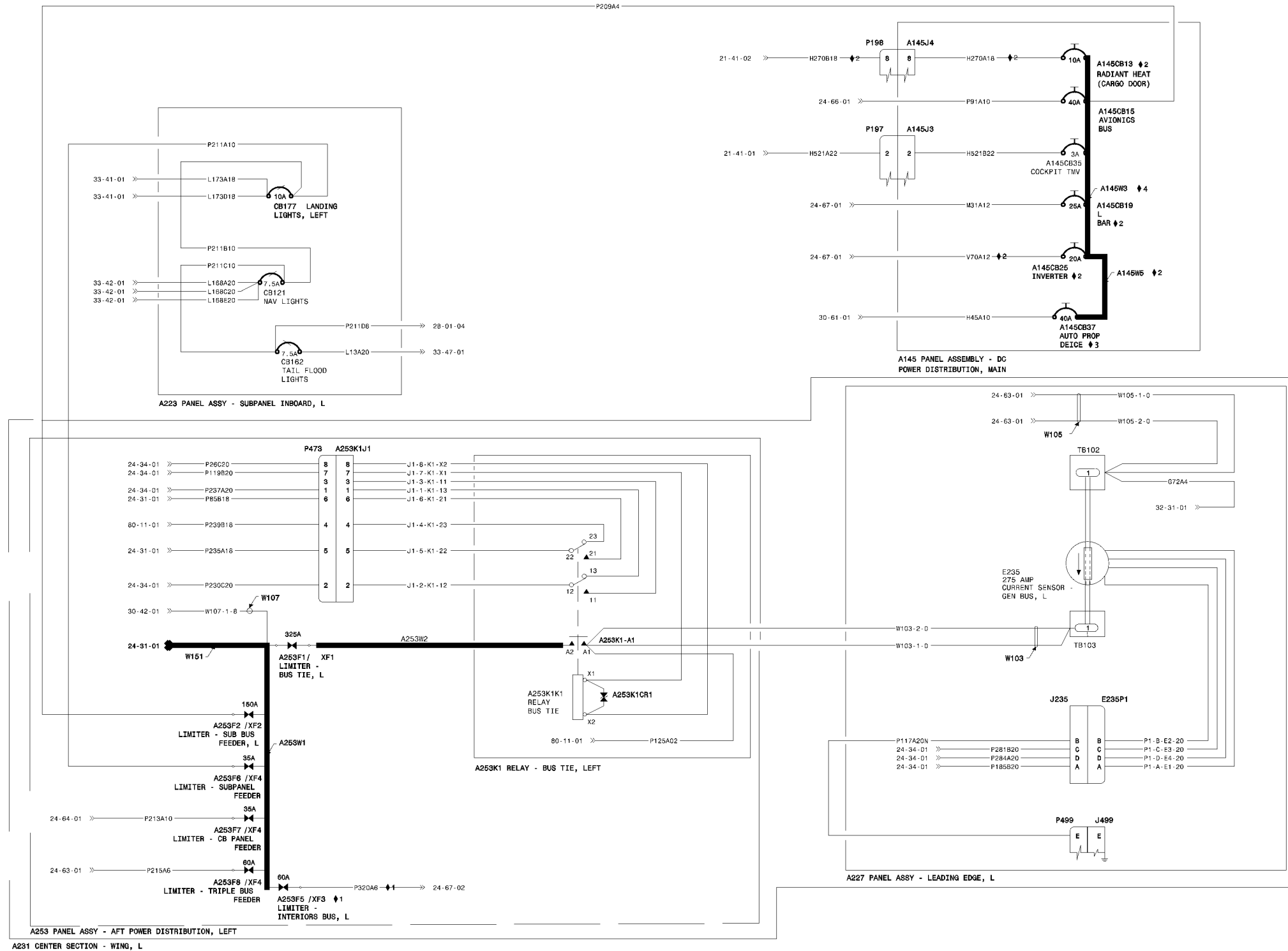
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Figure 02

Page 1

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BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



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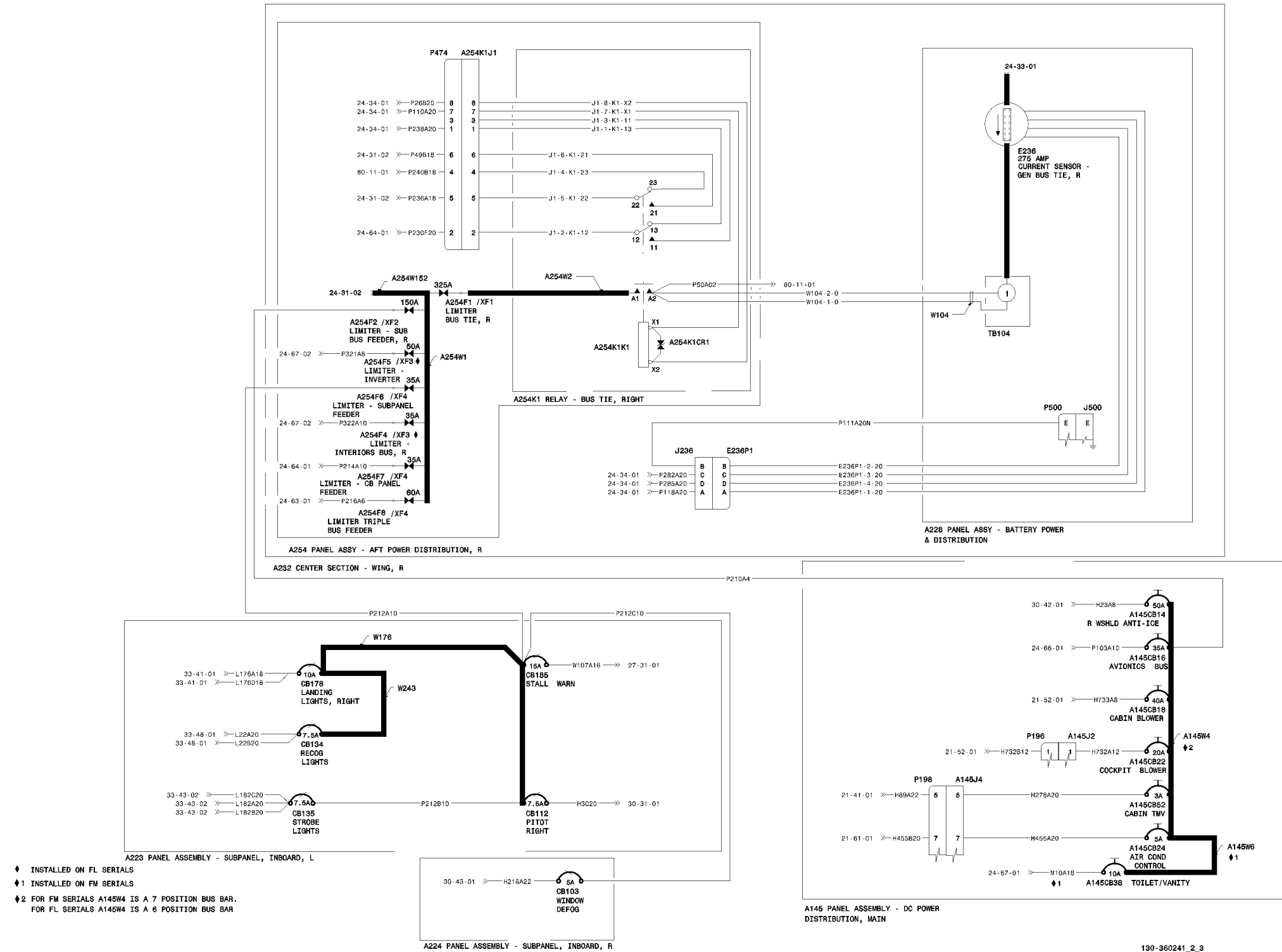
LEFT DC GEN BUS AND SUB BUS  
 Figure 02 (Sheet 1)



BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
		1 2 3 4 5 6 7			
CB177		. CIRCUIT BREAKER LANDING LIGHTS, L (ZONE 245) . . . . .			RF R
-	MS25036-153	. . TERMINAL RING TONGUE	V70898		01 R
-	MS25036-156	. . TERMINAL RING TONGUE	V70898		02 R
J235	207573-1	. RECEPTACLE, 7 POSITION GEN BUS TIE CURRENT SNSR, L (ZONE 511) . . . . .	V00779		01 R
-	106242C31	. . HEAT SHRINK TUBING	V70898		04 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	66103-4	. . TERMINAL PIN CONTACT	V00779		04 R
P197	206037-1	. PLUG DC DISTR CONT, L (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	206070-1	. . BACKSHELL	V00779		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT	V00779		05 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		07 R
-	66360-4	. . TERMINAL SOCKET CONTACT	V00779		04 R
P198	206037-1	. PLUG DC DISTR CONT, R (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	206070-1	. . BACKSHELL	V00779		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT	V00779		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		11 R
-	66360-4	. . TERMINAL SOCKET CONTACT	V00779		04 R
P473	208678-1	. PLUG, 8 POSITION BUS TIE RELAY, L (ZONE 521) . . . . .	V00779		01 R
-	106242C31	. . HEAT SHRINK TUBING	V70898		04 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT	V00779		03 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		04 R
-	MS27488-16	. . SEALING PLUG	V96906		01 R
P499	201298-3	. RECPTACLE 14 POSITION CENTER SECTION GND, L (ZONE 511) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	200686-1	. . BACKSHELL	V00779		01 R
-	203535-1	. . JACKSCREW	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT	V00779		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		AR R
TB102		. TERMINAL BOARD (ZONE 511) . . . . .			RF R
-	106242-F50-00300	. . HEATSHRINK	V70898		01 R
-	131287-1	. . LABEL STOCK			01 R
-	MS25036-125	. . TERMINAL RING TONGUE	V70898		01 R
-	MS25036-133	. . TERMINAL RING TONGUE	V70898		02 R
TB103		. TERMINAL BOARD (ZONE 511) . . . . .			RF R
-	106242F50-00500	. . HEATSHRINK	V70898		01 R
-	131287-1	. . LABEL STOCK			01 R
-	MS25036-133	. . TERMINAL RING TONGUE	V70898		02 R

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



RIGHT DC GEN BUS AND SUB BUS  
 Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
02		RIGHT DC GEN BUS AND SUB BUS	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
A145CB14		. CIRCUIT BREAKER WINDSHIELD ANTI-ICE COPILOT (ZONE 143) . . . . .			RF R
-	106242C44	. . HEATSHRINK . . . . .	V70898		01 R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	324061	. . TERMINAL RING TONGUE . . . . .	V00779		01 R
A145CB16		. CIRCUIT BREAKER AVIONICS BUS (ZONE 143) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	324111	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A145CB18		. CIRCUIT BREAKER EVAPORATOR BLOWER POWER AFT (ZONE 143) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-156	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A145CB22		. CIRCUIT BREAKER COCKPIT BLOWER (ZONE 143) . . . . .			RF R
-	MS25036-153	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A145CB24		. CIRCUIT BREAKER AIR CONDITIONER CLUTCH (ZONE 143) . . . . .			RF R
-	MS25036-149	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A145CB38		. CIRCUIT BREAKER TOILET (ZONE 143) . . . . .			RF R
-	MS25036-149	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A145CB52		. CIRCUIT BREAKER CABIN TMV . . . . .		FL1300 FL1300	RF R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-149	. . TERMINAL RING TONGUE . . . . .	V96906		01 R
A145J2	206137-1	. RECEPTACLE, 7 POSITION DC PWR DISTR, R (ZONE 143) . . . . .			01 R
-	66259-2	. . TERMINAL MALE CONTACT . . . . .	V00779		05 R
-	66261-2	. . TERMINAL PIN CONTACT . . . . .			01 R
A145J4	206036-1	. RECPTACLE 17-16 RCPT DC PWR DISTR, R (ZONE 143) . . . . .	V00779		01 R
-	66099-4	. . TERMINAL PIN CONTACT . . . . .	V00779		01 R
-	66103-4	. . TERMINAL PIN CONTACT . . . . .	V00779		11 R
-	66361-4	. . TERMINAL PIN CRIMP . . . . .			04 R
A254F2		. FUSE LIMITER (150 AMP) SUB BUS FEEDER, R (ZONE 621) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-124	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A254F4		. FUSE LIMITER (35 AMP) INTERIOR BUS, R (ZONE 621) . . . . .			RF R
		FL SERIALS ONLY			
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-112	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A254F5		. FUSE LIMITER (50 AMP) INVERTER PWR (ZONE 621) . . . . .			RF R
		FL SERIALS ONLY			
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-115	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A254F6		. FUSE LIMITER (35 AMP) SUBPANEL FEEDER (ZONE 621) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-112	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A254F7		. FUSE LIMITER (35 AMP) CB PNL FEEDER (ZONE 621) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-112	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A254F8		. FUSE LIMITER (60 AMP) TRIPLE BUS FEEDER, R (ZONE 621) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-119	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A254K1K1		. RELAY (200 AMP) SPST BUS TIE, R (ZONE 621) . . . . .			RF R
-	131287-1	. . LABEL STOCK . . . . .			01 R
-	321584	. . TERMINAL RING TONGUE . . . . .			01 R
-	322908	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
CB103		. CIRCUIT BREAKER (ZONE 244) . . . . .			RF R
-	MS25036-149	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS25036-156	. . TERMINAL RING TONGUE . . . . .	V70898		01 R

- ITEM NOT ILLUSTRATED

ICA-434-590169-0009-ICA-003

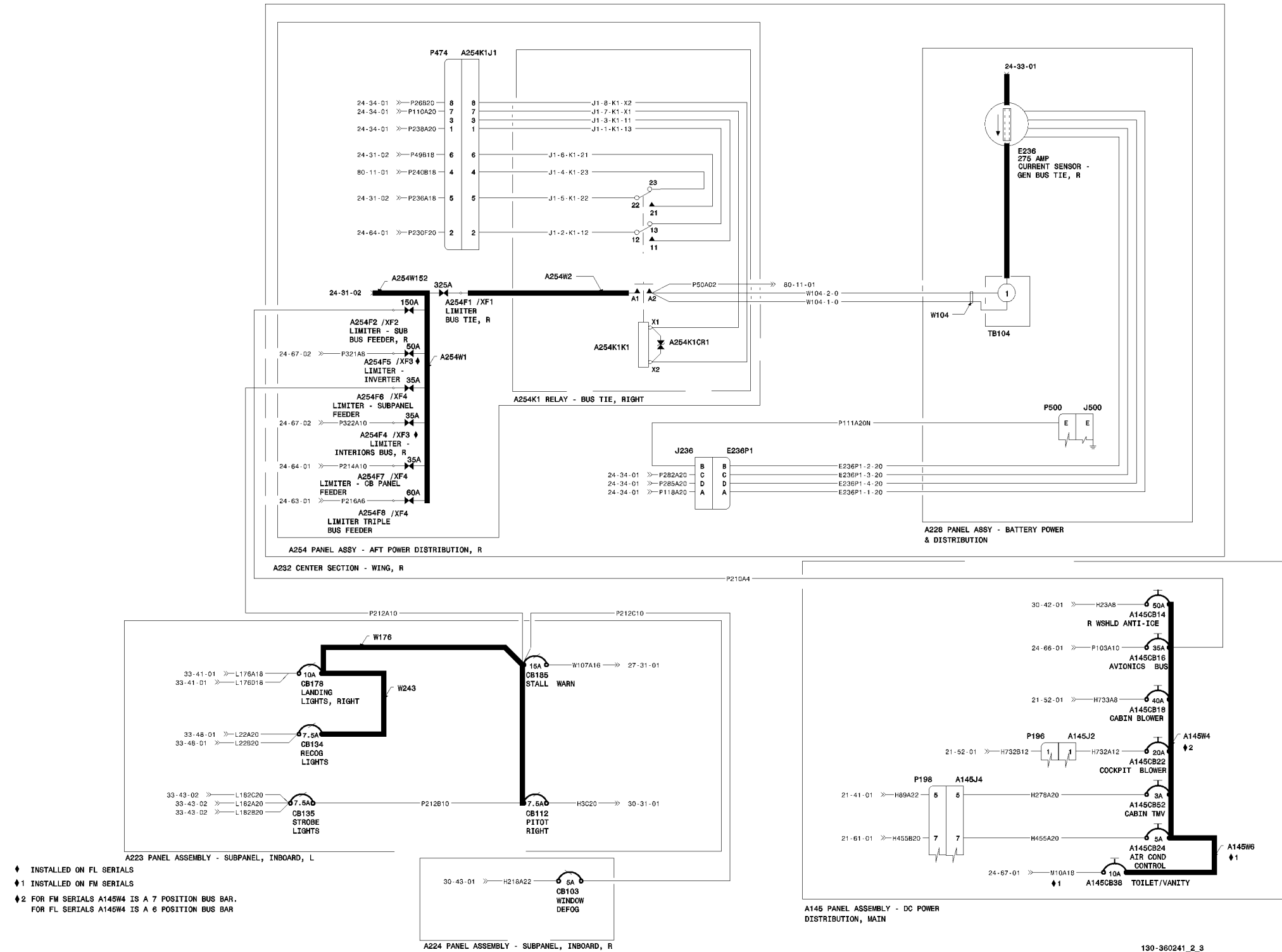
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Figure 02

Page 1

**24-61-02** Dec 02/2022

BEECHCRAFT®  
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 WIRING DIAGRAM MANUAL



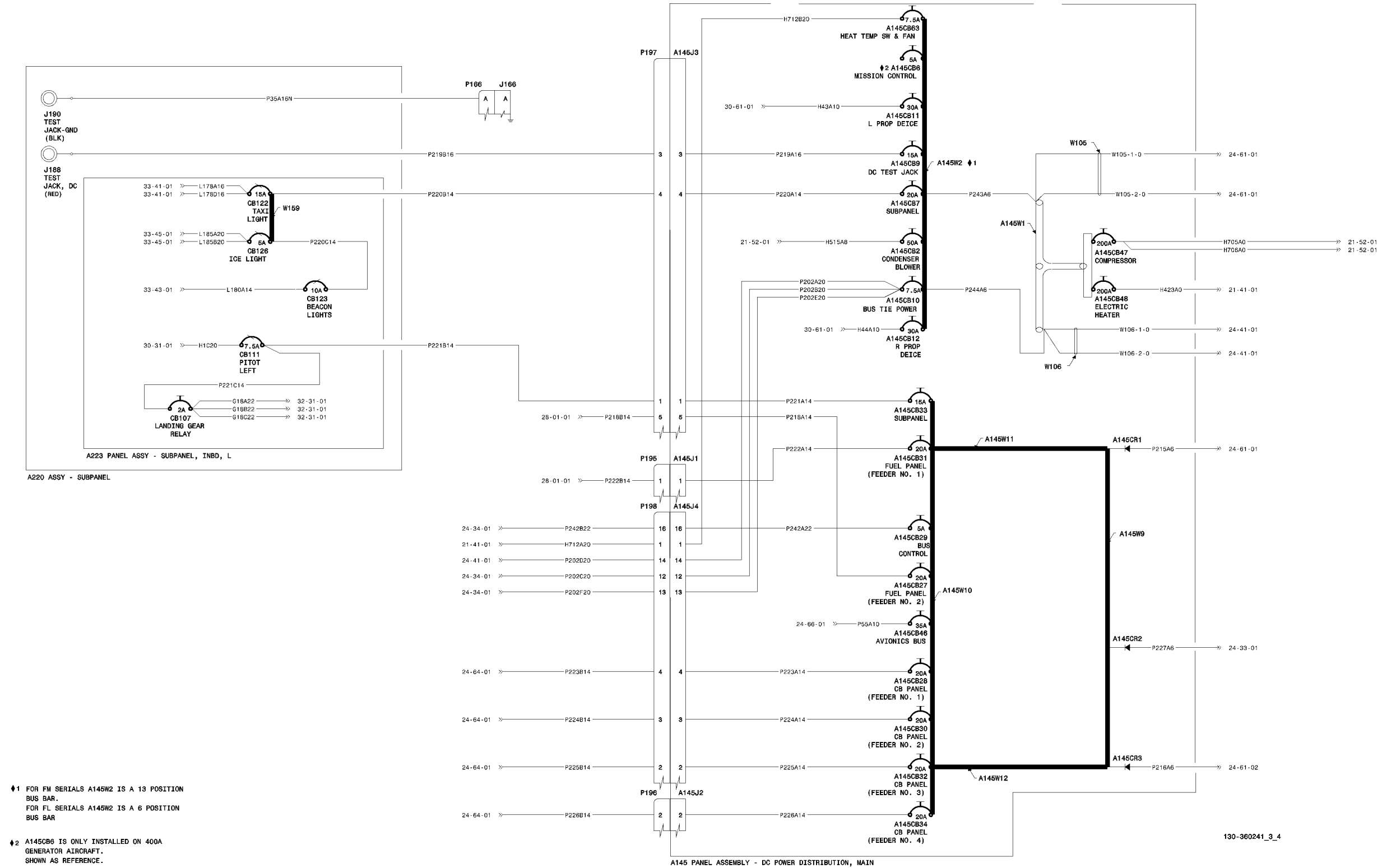
RIGHT DC GEN BUS AND SUB BUS  
 Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
		1 2 3 4 5 6 7			
CB112		. CIRCUIT BREAKER PITOT HEAT R (ZONE 245) . . . . .			RF R
-	MS25036-149	. . TERMINAL RING TONGUE	V70898		01 R
-	MS25036-156	. . TERMINAL RING TONGUE	V70898		01 R
CB134		. CIRCUIT BREAKER RECOG LIGHTS (ZONE 245) . . . . .			RF R
-	MS25036-149	. . TERMINAL RING TONGUE	V70898		01 R
CB135		. CIRCUIT BREAKER STROBE LIGHTS (ZONE 245) . . . . .			RF R
-	MS25036-153	. . TERMINAL RING TONGUE	V70898		01 R
-	MS25036-156	. . TERMINAL RING TONGUE	V70898		01 R
CB178		. CIRCUIT BREAKER LANDING LIGHTS, R (ZONE 245) . . . . .			RF R
-	MS25036-153	. . TERMINAL RING TONGUE	V70898		01 R
CB185		. CIRCUIT BREAKER STALL WARN. HEAT (ZONE 245) . . . . .			RF R
-	MS25036-153	. . TERMINAL RING TONGUE	V70898		01 R
-	MS25036-156	. . TERMINAL RING TONGUE	V70898		02 R
J236	207573-1	. RECEPTACLE, 7 POSITION GEN BUS TIE CURRENT SNSR, R (ZONE 611) . . . . .	V00779		01 R
-	106242C31	. . HEAT SHRINK TUBING	V70898		04 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	66103-4	. . TERMINAL PIN CONTACT	V00779		04 R
P196	206136-1	. PLUG, 7 POSITION DC POWER DISTR, R (ZONE 143) . . . . .	V00779		01 R
-	106242F50-00600	. . HEATSHRINK	V70898		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	66740-6	. . TERMINAL FEMALE CONTACT			01 R
-	66741-6	. . TERMINAL FEMALE CONTACT			05 R
-	MS3420-8D	. . BUSHING	V96906		01 R
P198	206037-1	. PLUG DC DISTR CONT, R (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	206070-1	. . BACKSHELL	V00779		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT	V00779		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		11 R
-	66360-4	. . TERMINAL SOCKET CONTACT	V00779		04 R
P474	208678-1	. PLUG, 8 POSITION BUS TIE RELAY, R (ZONE 621) . . . . .	V00779		01 R
-	106242C31	. . HEAT SHRINK TUBING	V70898		04 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT	V00779		03 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		04 R
-	MS27488-16	. . SEALING PLUG	V96906		01 R
P500	201298-3	. RECPTACLE 14 POSITION CENTER SECTION GND, R (ZONE 511) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	200686-1	. . BACKSHELL	V00779		01 R
-	203535-1	. . JACKSCREW	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT	V00779		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		12 R
TB104		. TERMINAL BOARD (ZONE 611) . . . . .			RF R
-	131287-1	. . LABEL STOCK			01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	MS25036-133	. . TERMINAL RING TONGUE	V70898		02 R

- ITEM NOT ILLUSTRATED

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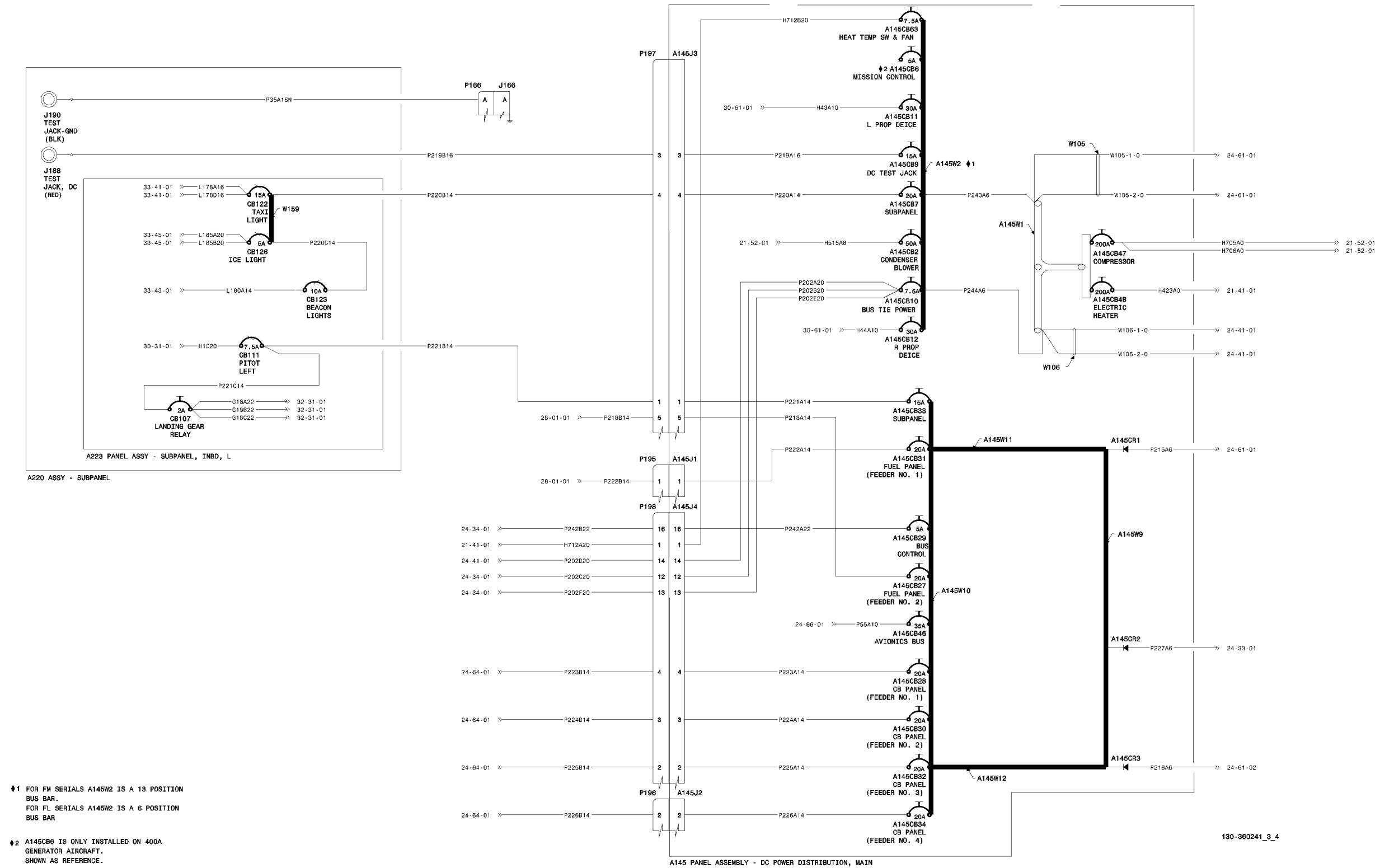
TRIPLE FED AND CENTER BUS  
 Figure 02 (Sheet 1)

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 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
02		TRIPLE FED AND CENTER BUS	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
A145CB10		. CIRCUIT BREAKER BUS TIE POWER (ZONE 143) . . . . .			RF R
-	323196	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS25036-153	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
A145CB11		. CIRCUIT BREAKER MANUAL PROP DEICE, L (ZONE 143) . . . . .			RF R
-	MS25036-156	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
A145CB12		. CIRCUIT BREAKER MANUAL PROP DEICE, R (ZONE 143) . . . . .			RF R
-	MS25036-156	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
A145CB27		. CIRCUIT BREAKER FUEL PNL FEEDER NO. 2 (ZONE 143) . . . . .			RF R
-	MS25036-153	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
A145CB28		. CIRCUIT BREAKER CIRCUIT BREAKER PNL FEEDER NO. 1 (ZONE 143) . . . . .			RF R
-	MS25036-153	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
A145CB29		. CIRCUIT BREAKER BUS TIE CONTROL (ZONE 143) . . . . .			RF R
-	MS25036-149	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
A145CB2		. CIRCUIT BREAKER CONDENSER BLOWER POWER (ZONE 143) . . . . .			RF R
-	131741-1	. . . MARKER BAND . . . . .	V70898		01 R
-	322047	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
A145CB30		. CIRCUIT BREAKER CIRCUIT BREAKER PNL FEEDER NO. 2 (ZONE 143) . . . . .			RF R
-	MS25036-153	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
A145CB31		. CIRCUIT BREAKER FUEL PNL FEEDER NO. 1 (ZONE 143) . . . . .			RF R
-	MS25036-153	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
A145CB32		. CIRCUIT BREAKER CIRCUIT BREAKER PNL FEEDER NO. 3 (ZONE 143) . . . . .			RF R
-	MS25036-153	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
A145CB33		. CIRCUIT BREAKER SUBPANEL FEEDER (ZONE 143) . . . . .			RF R
-	MS25036-153	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
A145CB34		. CIRCUIT BREAKER CIRCUIT BREAKER PNL FEEDER NO. 4 (ZONE 143) . . . . .			RF R
-	MS25036-153	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
A145CB46		. CIRCUIT BREAKER AVIONICS FEEDER TPL FED BUS (ZONE 143) . . . . .			RF R
-	MS25036-156	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
A145CB48		. CIRCUIT BREAKER ELECTRIC HEAT (ZONE 143) . . . . .			RF R
-	131741-1	. . . MARKER BAND . . . . .	V70898		01 R
-	MS25036-126	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
A145CB7		. CIRCUIT BREAKER SUBPANEL FEEDER (ZONE 143) . . . . .			RF R
-	323196	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS25036-153	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
A145CB9		. CIRCUIT BREAKER DC TEST JACK (ZONE 143) . . . . .			RF R
-	MS25036-153	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
A145CR1		. DIODE (ZONE 143) . . . . .			RF R
-	131741-1	. . . MARKER BAND . . . . .	V70898		01 R
-	MS25036-120	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
A145CR2		. DIODE (ZONE 143) . . . . .			RF R
-	131741-1	. . . MARKER BAND . . . . .	V70898		01 R
-	MS25036-120	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
A145CR3		. DIODE (ZONE 143) . . . . .			RF R
-	131741-1	. . . MARKER BAND . . . . .	V70898		01 R
-	MS25036-120	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
A145J1	206137-1	. RECEPTACLE, 7 POSITION DC PWR DISTR, L (ZONE 143) . . . . .			01 R
-	66259-2	. . . TERMINAL MALE CONTACT . . . . .	V00779		05 R
A145J2	206137-1	. RECEPTACLE, 7 POSITION DC PWR DISTR, R (ZONE 143) . . . . .			01 R
-	66259-2	. . . TERMINAL MALE CONTACT . . . . .	V00779		05 R
-	66261-2	. . . TERMINAL PIN CONTACT . . . . .			01 R
A145J3	206036-1	. RECPTACLE 17-16 RCPT DC PWR DISTR, L (ZONE 143) . . . . .	V00779		01 R
-	66099-4	. . . TERMINAL PIN CONTACT . . . . .	V00779		05 R
-	66103-4	. . . TERMINAL PIN CONTACT . . . . .	V00779		07 R
-	66361-4	. . . TERMINAL PIN CRIMP . . . . .			04 R

- ITEM NOT ILLUSTRATED

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 WIRING DIAGRAM MANUAL



TRIPLE FED AND CENTER BUS  
 Figure 02 (Sheet 1)

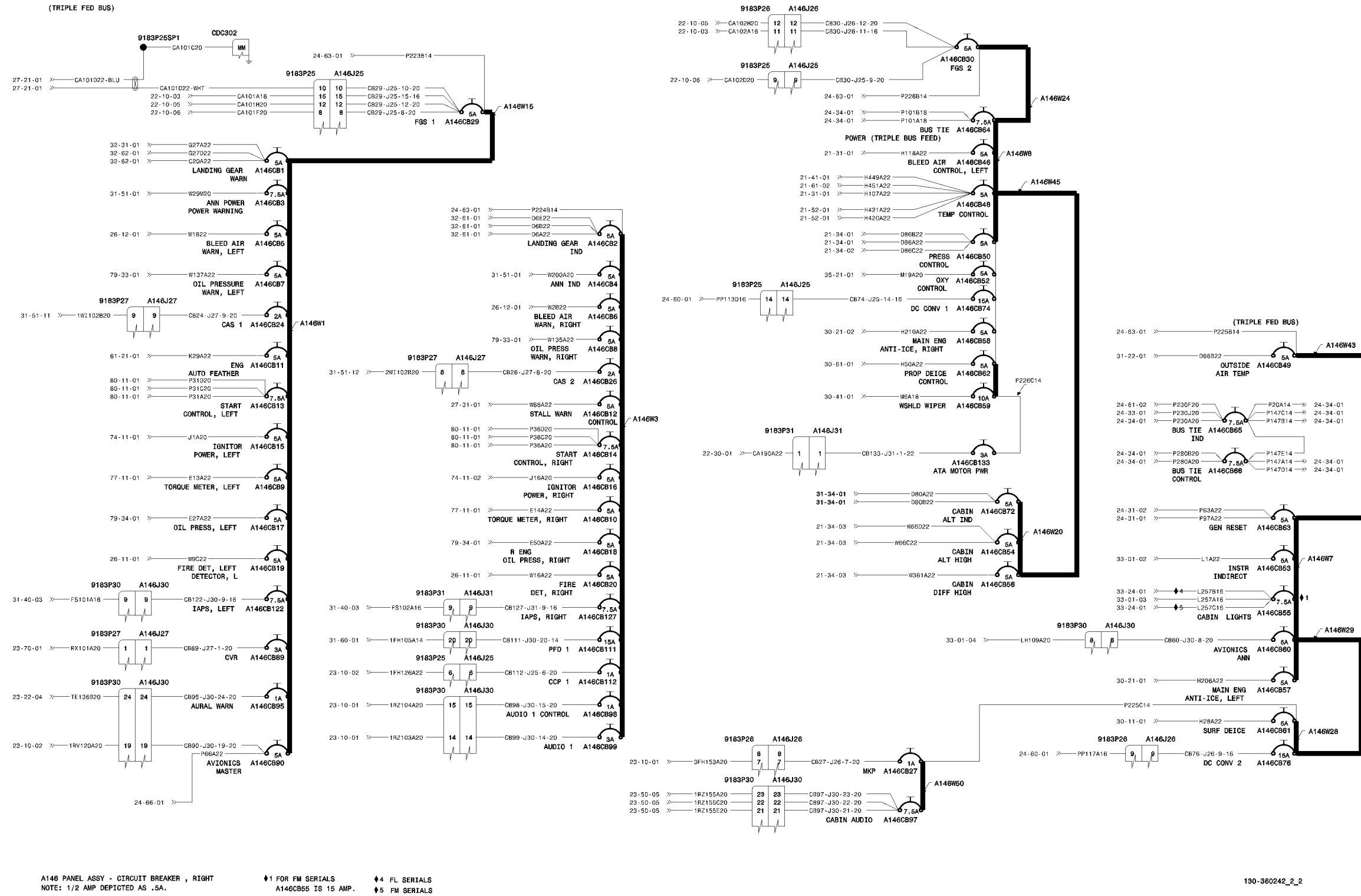


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 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
A145J4	206036-1	. RECPTACLE 17-16 RCPT DC PWR DISTR, R (ZONE 143) . . . . .	V00779		01 R
-	66099-4	. . TERMINAL PIN CONTACT	V00779		01 R
-	66103-4	. . TERMINAL PIN CONTACT	V00779		11 R
-	66361-4	. . TERMINAL PIN CRIMP			04 R
CB107		. CIRCUIT BREAKER LANDING GEAR CONTROL (ZONE 245) . . . . .			RF R
-	MS25036-102	. . TERMINAL RING TONGUE	V70898		01 R
-	MS25036-107	. . TERMINAL RING TONGUE	V70898		01 R
CB111		. CIRCUIT BREAKER PITOT HEAT L (ZONE 245) . . . . .			RF R
-	MS25036-149	. . TERMINAL RING TONGUE	V70898		01 R
-	MS25036-156	. . TERMINAL RING TONGUE	V70898		01 R
CB122		. CIRCUIT BREAKER TAXI LIGHTS (ZONE 245) . . . . .			RF R
-	MS25036-153	. . TERMINAL RING TONGUE	V70898		02 R
CB123		. CIRCUIT BREAKER FLASHING BEACON LTS (ZONE 245) . . . . .			RF R
-	MS25036-153	. . TERMINAL RING TONGUE	V70898		02 R
CB126		. CIRCUIT BREAKER ICE LIGHT (ZONE 245) . . . . .			RF R
-	MS25036-149	. . TERMINAL RING TONGUE	V70898		01 R
-	MS25036-153	. . TERMINAL RING TONGUE	V70898		01 R
J188	1506-102	. SPADE TERMINAL TEST JACK (RED) DC (ZONE 244) . . . . .	V83330		01 R
-	106242C42	. . HEATSHRINK	V70898		01 R
-	SOLDER	. . TERMINAL CONTACT	V81349		01 R
J190	1506-103	. SPADE TERMINAL TEST JACK (BLACK) GND (ZONE 244) . . . . .	V83330		01 R
-	106242C42	. . HEATSHRINK	V70898		01 R
-	SOLDER	. . TERMINAL CONTACT	V81349		01 R
P166	200838-3	. RECEPTACLE, 34 POSITION SUBPANEL GND, R (ZONE 232) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	201224-1	. . BACKSHELL	V00779		01 R
-	203618-1	. . JACKSCREW	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT	V00779		22 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		02 R
P195	206136-1	. PLUG, 7 POSITION DC POWER DISTR, L (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	206138-8	. . BACKSHELL	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66740-6	. . TERMINAL FEMALE CONTACT			01
-	66741-6	. . TERMINAL FEMALE CONTACT			05 R
P196	206136-1	. PLUG, 7 POSITION DC POWER DISTR, R (ZONE 143) . . . . .	V00779		01 R
-	106242F50-00600	. . HEATSHRINK	V70898		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	66740-6	. . TERMINAL FEMALE CONTACT			01 R
-	66741-6	. . TERMINAL FEMALE CONTACT			05 R
-	MS3420-8D	. . BUSHING	V96906		01 R
P197	206037-1	. PLUG DC DISTR CONT, L (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	206070-1	. . BACKSHELL	V00779		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT	V00779		05 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		07 R
-	66360-4	. . TERMINAL SOCKET CONTACT	V00779		04 R
P198	206037-1	. PLUG DC DISTR CONT, R (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	206070-1	. . BACKSHELL	V00779		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT	V00779		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		11 R
-	66360-4	. . TERMINAL SOCKET CONTACT	V00779		04 R

- ITEM NOT ILLUSTRATED

# BEECHCRAFT® MODEL B300/B300C FUSION WIRING DIAGRAM MANUAL



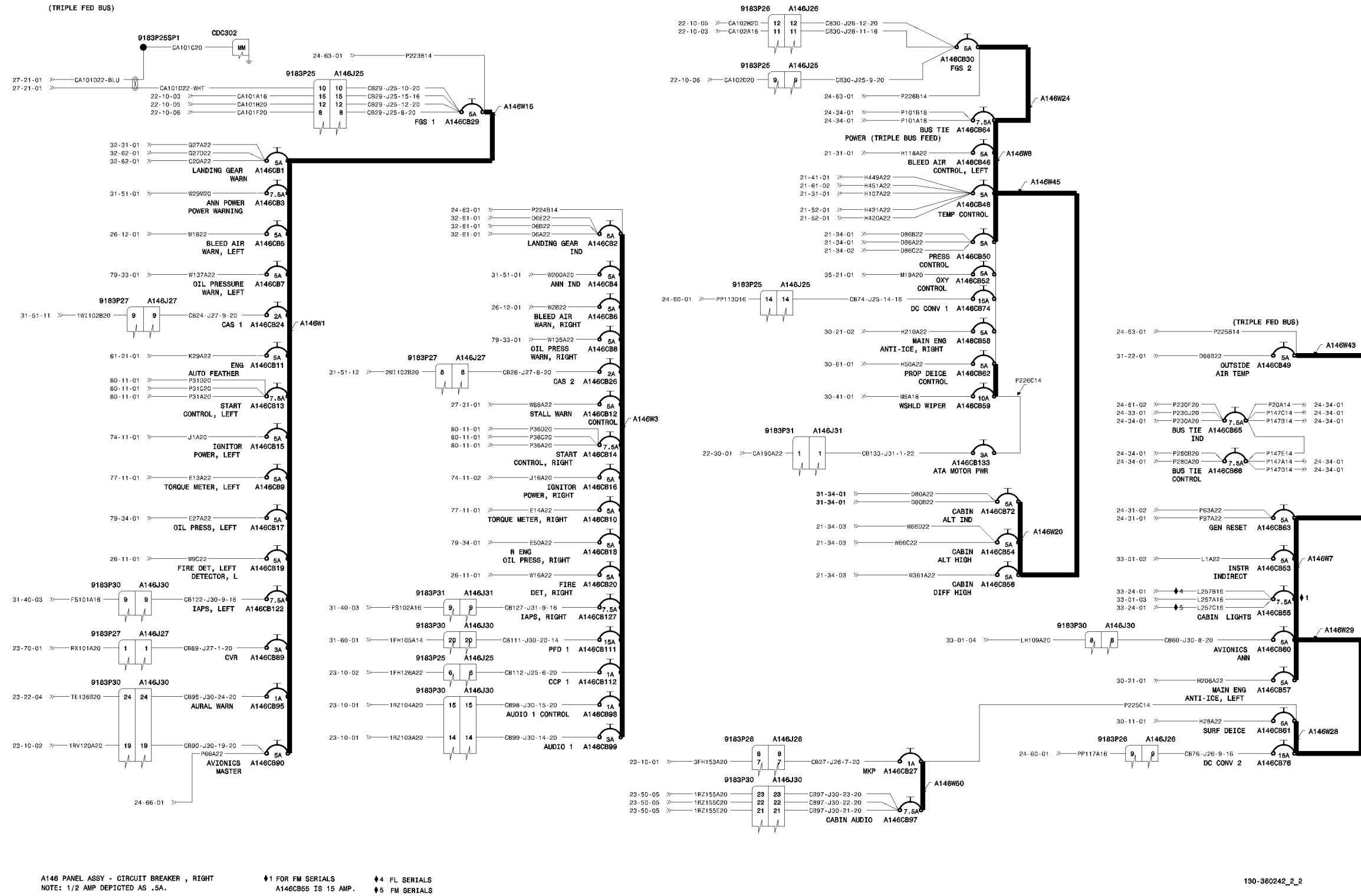
PANEL ASSEMBLY - CIRCUIT BREAKER, RIGHT  
Figure 06 (Sheet 1)

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
06		PANEL ASSEMBLY - CIRCUIT BREAKER, RIGHT	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
-	9183P25	1-480439-0 . . . RECEPTACLE, 16 CIRCUIT RH CB PNL . . . . .	V00779		01 R
-		131741-3 . . . MARKER BAND . . . . .	V70898		01 R
-		60618-5 . . . TERMINAL PIN CONTACT . . . . .	V00779		10 R
-		60620-5 . . . TERMINAL PIN CONTACT . . . . .	V00779		03 R
-		D-436-0097 . . . SEALING SLEEVE . . . . .	V06090		01 R
-	9183P25	M81824/1-1 . . . SPLICE . . . . .	V81343		01 R
	SP1				
-	9183P26	1-480288-0 . . . RECEPTACLE, 12 CIRCUIT RH CB PNL . . . . .	V00779		01 R
-		131741-3 . . . MARKER BAND . . . . .	V70898		01 R
-		60618-5 . . . TERMINAL PIN CONTACT . . . . .	V00779		07 R
-		60620-5 . . . TERMINAL PIN CONTACT . . . . .	V00779		02 R
-	9183P27	1-480286-0 . . . RECEPTACLE, 10 CIRCUIT . . . . .	V00779		01 R
-		131741-3 . . . MARKER BAND . . . . .	V70898		01 R
-		60618-5 . . . TERMINAL PIN CONTACT . . . . .	V00779		07 R
-	9183P30	206838-2 . . . RECEPTACLE RH CB PNL DISC . . . . .	V00779		01 R
-		131741-3 . . . MARKER BAND . . . . .	V70898		01 R
-		193844-1 . . . TERMINAL PIN CRIMP . . . . .	V00779		02 R
-		206138-1 . . . BACKSHELL . . . . .	V00779		01 R
-		52672 . . . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-		66099-4 . . . TERMINAL PIN CONTACT . . . . .	V00779		02 R
-		66103-4 . . . TERMINAL PIN CONTACT . . . . .	V00779		17 R
-	9183P31	206036-3 . . . RECEPTACLE, 17-16P RH CB PNL DISC . . . . .	V00779		01 R
-		131741-3 . . . MARKER BAND . . . . .	V70898		01 R
-		193844-1 . . . TERMINAL PIN CRIMP . . . . .	V00779		01 R
-		206070-1 . . . BACKSHELL . . . . .	V00779		01 R
-		52672 . . . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-		66099-4 . . . TERMINAL PIN CONTACT . . . . .	V00779		03 R
-		66103-4 . . . TERMINAL PIN CONTACT . . . . .	V00779		10 R
-	A146CB10	. . . CIRCUIT BREAKER ENG OIL PRESSURE, R (ZONE 246) . . . . .			RF R
-		MS25036-102 . . . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	A146CB11	1 . . . CIRCUIT BREAKER PILOT PFD (ZONE 246) . . . . .			RF R
-		MS25036-107 . . . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	A146CB11	2 . . . CIRCUIT BREAKER PILOT DCP (ZONE 246) . . . . .			RF R
-		MS25036-102 . . . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	A146CB11	. . . CIRCUIT BREAKER ENGINE AUTOFEATHER (ZONE 246) . . . . .			RF R
-		MS25036-102 . . . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	A146CB12	2 . . . CIRCUIT BREAKER IAPS, L (ZONE 246) . . . . .			RF R
-		MS25036-102 . . . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	A146CB12	3 . . . CIRCUIT BREAKER RADAR (ZONE 246) . . . . .			RF R
-		MS25036-102 . . . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	A146CB12	4 . . . CIRCUIT BREAKER DME NO. 1 (ZONE 246) . . . . .			RF R
-		MS25036-102 . . . TERMINAL RING TONGUE . . . . .	V70898		01 R
-		MS25036-111 . . . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	A146CB12	5 . . . CIRCUIT BREAKER CDU NO. 1 (ZONE 246) . . . . .			RF R
-		MS25036-102 . . . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	A146CB12	6 . . . CIRCUIT BREAKER GPS NO. 1 (ZONE 246) . . . . .			RF R
-		MS25036-102 . . . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	A146CB12	7 . . . CIRCUIT BREAKER IAPS, R (ZONE 246) . . . . .			RF R
-		MS25036-107 . . . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	A146CB12	8 . . . CIRCUIT BREAKER RADIO ALTM (ZONE 246) . . . . .			RF R
-		MS25036-102 . . . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	A146CB12	. . . CIRCUIT BREAKER STALL WARN. CONT (ZONE 246) . . . . .			RF R
-		MS25036-102 . . . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	A146CB13	3 . . . CIRCUIT BREAKER ATA MOTOR POWER . . . . .		FL1300 FL1300	RF R
				FL1307 FL9999	
				FM0110 FM9999	
-		MS25036-102 . . . TERMINAL RING TONGUE . . . . .	V70898		01 R

- ITEM NOT ILLUSTRATED

# BEECHCRAFT® MODEL B300/B300C FUSION WIRING DIAGRAM MANUAL



PANEL ASSEMBLY - CIRCUIT BREAKER, RIGHT  
Figure 06 (Sheet 1)

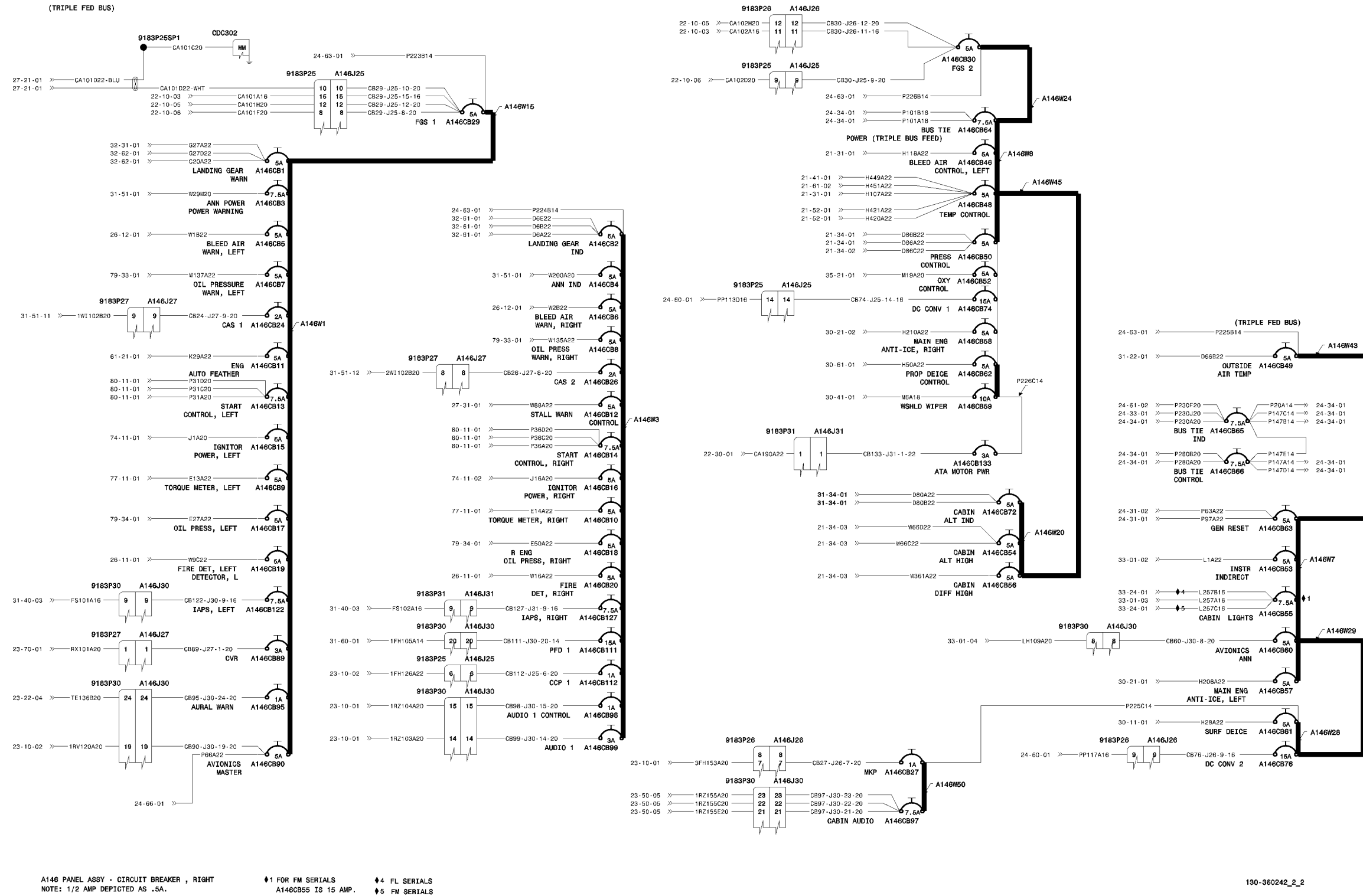
BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS				
			FROM	TO	PER ASSY				
			1	2	3	4	5	6	7
A146CB13		. CIRCUIT BREAKER ENG START CONT, L (ZONE 246) . . . . .							RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
A146CB14		. CIRCUIT BREAKER ENG START CONT, R (ZONE 246) . . . . .							RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
A146CB15		. CIRCUIT BREAKER ENG IGNITOR PWR, L (ZONE 246) . . . . .							RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
A146CB16		. CIRCUIT BREAKER ENG IGNITOR PWR, R (ZONE 246) . . . . .							RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
A146CB17		. CIRCUIT BREAKER ENG OIL TEMP, L (ZONE 246) . . . . .							RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
A146CB18		. CIRCUIT BREAKER ENG OIL TEMP, R (ZONE 246) . . . . .							RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
A146CB19		. CIRCUIT BREAKER ENG FIRE DET, L (ZONE 246) . . . . .							RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
A146CB1		. CIRCUIT BREAKER LDG GR WARNING (ZONE 246) . . . . .							RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
A146CB20		. CIRCUIT BREAKER ENG FIRE DET, R (ZONE 246) . . . . .							RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
A146CB24		. CIRCUIT BREAKER CAS NO. 1 SEC (ZONE 246) . . . . .							RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
A146CB26		. CIRCUIT BREAKER ENG OIL PRESSURE WARNING, R (ZONE 246) . . . . .							RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
A146CB27		. CIRCUIT BREAKER PILOT AUDIO CONTROLLER (ZONE 246) . . . . .							RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
-	MS25036-107	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
A146CB29		. CIRCUIT BREAKER FGC NO. 1 SERVO (ZONE 246) . . . . .							RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
-	MS25036-107	. . TERMINAL RING TONGUE . . . . .	V70898						02 R
A146CB2		. CIRCUIT BREAKER LDG GR POSN IND (ZONE 246) . . . . .							RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
-	MS25036-107	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
A146CB30		. CIRCUIT BREAKER FGC NO. 2 SERVO (ZONE 246) . . . . .							RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
-	MS25036-107	. . TERMINAL RING TONGUE . . . . .	V70898						02 R
A146CB33		. CIRCUIT BREAKER AVIONICS & ENG INSTR LIGHTS (ZONE 246) . . . . .							RF R
-	106242C44	. . HEATSHRINK . . . . .	V70898						01 R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
A146CB3		. CIRCUIT BREAKER ANN. POWER WARNING (ZONE 246) . . . . .							RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
A146CB45		. CIRCUIT BREAKER HF COM (ZONE 246) . . . . .							RF R
-	131741-1	. . MARKER BAND . . . . .	V70898						01 R
-	MS25036-111	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
A146CB46		. CIRCUIT BREAKER BLEED AIR CONT, L (ZONE 246) . . . . .							RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
A146CB47		. CIRCUIT BREAKER HF ANTENNA COUPLER (ZONE 246) . . . . .							RF R
-	106242C44	. . HEATSHRINK . . . . .	V70898						01 R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
A146CB48		. CIRCUIT BREAKER TEMP CONTROL (ZONE 246) . . . . .							RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898						02 R
A146CB49		. CIRCUIT BREAKER OUTSIDE AIR TEMP (ZONE 246) . . . . .							RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
-	MS25036-107	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
A146CB4		. CIRCUIT BREAKER ANN. WARNING IND (ZONE 246) . . . . .							RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
A146CB50		. CIRCUIT BREAKER PRESSURE CONTROL (ZONE 246) . . . . .							RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
A146CB52		. CIRCUIT BREAKER OXYGEN CONTROL (ZONE 246) . . . . .							RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
A146CB53		. CIRCUIT BREAKER INSTR INDIRECT LTS (ZONE 246) . . . . .							RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
A146CB54		. CIRCUIT BREAKER CABIN ALT HIGH (ZONE 246) . . . . .							RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
A146CB55		. CIRCUIT BREAKER CABIN LIGHTS (ZONE 246) . . . . .							RF R
-		. . FM SERIALS ONLY . . . . .							
-	MS25036-111	. . TERMINAL RING TONGUE . . . . .	V70898						01 R
A146CB56		. CIRCUIT BREAKER CABIN DIFF HIGH (ZONE 246) . . . . .							RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898						01 R

- ITEM NOT ILLUSTRATED

Figure 06

# BEECHCRAFT® MODEL B300/B300C FUSION WIRING DIAGRAM MANUAL



PANEL ASSEMBLY - CIRCUIT BREAKER, RIGHT  
Figure 06 (Sheet 1)

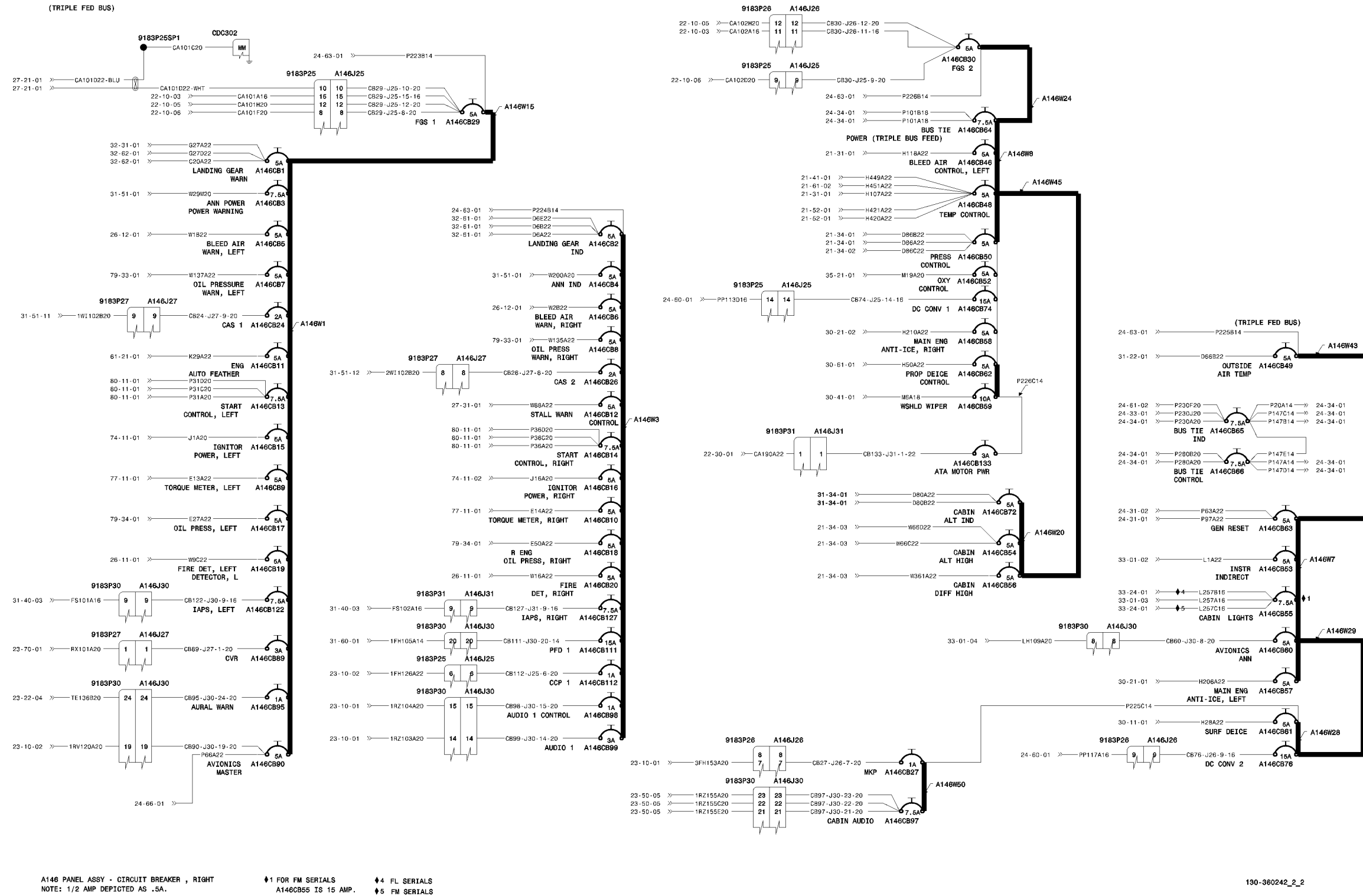
BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY FROM TO	UNITS PER ASSY
		1 2 3 4 5 6 7		
A146CB57		. CIRCUIT BREAKER MAIN ENGINE ANTI-ICE, L (ZONE 246) . . . .		RF R
-	MS25036-102	. . . . . TERMINAL RING TONGUE	V70898	01 R
A146CB58		. CIRCUIT BREAKER MAIN ENGINE ANTI-ICE, R (ZONE 246) . . . .		RF R
-	MS25036-102	. . . . . TERMINAL RING TONGUE	V70898	01 R
A146CB59		. CIRCUIT BREAKER WINDSHIELD WIPER (ZONE 246) . . . . .		RF R
-	MS25036-102	. . . . . TERMINAL RING TONGUE	V70898	01 R
A146CB5		. CIRCUIT BREAKER BLEED AIR WARN, L (ZONE 246) . . . . .		RF R
-	MS25036-102	. . . . . TERMINAL RING TONGUE	V70898	01 R
A146CB60		. CIRCUIT BREAKER AVIONICS ANNUNCIATOR (ZONE 246) . . . .		RF R
-	MS25036-102	. . . . . TERMINAL RING TONGUE	V70898	01 R
A146CB61		. CIRCUIT BREAKER SURFACE DEICE (ZONE 246) . . . . .		RF R
-	MS25036-102	. . . . . TERMINAL RING TONGUE	V70898	01 R
-	MS25036-107	. . . . . TERMINAL RING TONGUE	V70898	01 R
A146CB62		. CIRCUIT BREAKER PROP DEICE CONT (ZONE 246) . . . . .		RF R
-	MS25036-102	. . . . . TERMINAL RING TONGUE	V70898	01 R
A146CB63		. CIRCUIT BREAKER GENERATOR RESET (ZONE 246) . . . . .		RF R
-	MS25036-102	. . . . . TERMINAL RING TONGUE	V70898	01 R
A146CB64		. CIRCUIT BREAKER BAT. BUS TIE (ZONE 246) . . . . .		RF R
-	MS25036-107	. . . . . TERMINAL RING TONGUE	V70898	01 R
A146CB65		. CIRCUIT BREAKER BUS TIE INDICATOR (ZONE 246) . . . . .		RF R
-	MS25036-107	. . . . . TERMINAL RING TONGUE	V70898	01 R
-	MS25036-111	. . . . . TERMINAL RING TONGUE	V70898	02 R
A146CB66		. CIRCUIT BREAKER BUS TIE CONTROL (ZONE 246) . . . . .		RF R
-	MS25036-102	. . . . . TERMINAL RING TONGUE	V70898	01 R
-	MS25036-111	. . . . . TERMINAL RING TONGUE	V70898	01 R
A146CB6		. CIRCUIT BREAKER BLEED AIR WARN, R (ZONE 246) . . . . .		RF R
-	MS25036-102	. . . . . TERMINAL RING TONGUE	V70898	01 R
A146CB72		. CIRCUIT BREAKER . . . . .		RF R
-	MS25036-102	. . . . . TERMINAL RING TONGUE	V70898	01 R
A146CB74		. CIRCUIT BREAKER DC CONV NO. 1 (ZONE 246) . . . . .		RF R
-	MS25036-102	. . . . . TERMINAL RING TONGUE	V70898	01 R
A146CB76		. CIRCUIT BREAKER DC CONV NO. 2 (ZONE 246) . . . . .		RF R
-	MS25036-107	. . . . . TERMINAL RING TONGUE	V70898	01 R
A146CB7		. CIRCUIT BREAKER ENG OIL PRESSURE WARNING, L (ZONE 246) . . . . .		RF R
-	MS25036-102	. . . . . TERMINAL RING TONGUE	V70898	01 R
A146CB89		. CIRCUIT BREAKER CVR (ZONE 246) . . . . .		RF R
-	MS25036-102	. . . . . TERMINAL RING TONGUE	V70898	01 R
A146CB8		. CIRCUIT BREAKER ENG OIL PRESSURE WARNING, R (ZONE 246) . . . . .		RF R
-	MS25036-102	. . . . . TERMINAL RING TONGUE	V70898	01 R
A146CB90		. CIRCUIT BREAKER AVIONICS MASTER CONTROL (ZONE 246) . . . . .		RF R
-	MS25036-102	. . . . . TERMINAL RING TONGUE	V70898	01 R
A146CB95		. CIRCUIT BREAKER AURAL WARN (ZONE 246) . . . . .		RF R
-	MS25036-102	. . . . . TERMINAL RING TONGUE	V70898	01 R
A146CB97		. CIRCUIT BREAKER CABIN AUDIO (ZONE 246) . . . . .		RF R
-	MS25036-107	. . . . . TERMINAL RING TONGUE	V70898	01 R
A146CB98		. CIRCUIT BREAKER ENG FIRE DET, R (ZONE 246) . . . . .		RF R
-	MS25036-102	. . . . . TERMINAL RING TONGUE	V70898	01 R
A146CB99		. CIRCUIT BREAKER ENG FIRE DET, R (ZONE 246) . . . . .		RF R
-	MS25036-102	. . . . . TERMINAL RING TONGUE	V70898	01 R
A146CB9		. CIRCUIT BREAKER ENG OIL PRESSURE, L (ZONE 246) . . . . .		RF R
-	MS25036-102	. . . . . TERMINAL RING TONGUE	V70898	01 R
A146J25	1-480438-0	. PLUG, 16 CIRCUIT CB PNL (ZONE 246) . . . . .	V00779	01 R
-	131741-3	. . . . . MARKER BAND	V70898	01 R
-	60617-5	. . . . . TERMINAL SOCKET CONTACT	V00779	10 R
-	60619-5	. . . . . TERMINAL SOCKET CONTACT	V00779	03 R
A146J26	1-480287-0	. PLUG, 12 CIRCUIT CB PNL, R (ZONE 246) . . . . .	V00779	01 R
-	131741-3	. . . . . MARKER BAND	V70898	01 R
-	60617-5	. . . . . TERMINAL SOCKET CONTACT	V00779	07 R
-	60619-5	. . . . . TERMINAL SOCKET CONTACT	V00779	02 R
A146J27	1-480285-0	. PLUG, 10 CIRCUIT CB PNL, R (ZONE 246) . . . . .	V00779	01 R
-	131741-3	. . . . . MARKER BAND	V70898	01 R
-	60617-5	. . . . . TERMINAL SOCKET CONTACT	V00779	07 R

FL1234 FL9999  
FM0098FM9999

- ITEM NOT ILLUSTRATED

# BEECHCRAFT® MODEL B300/B300C FUSION WIRING DIAGRAM MANUAL



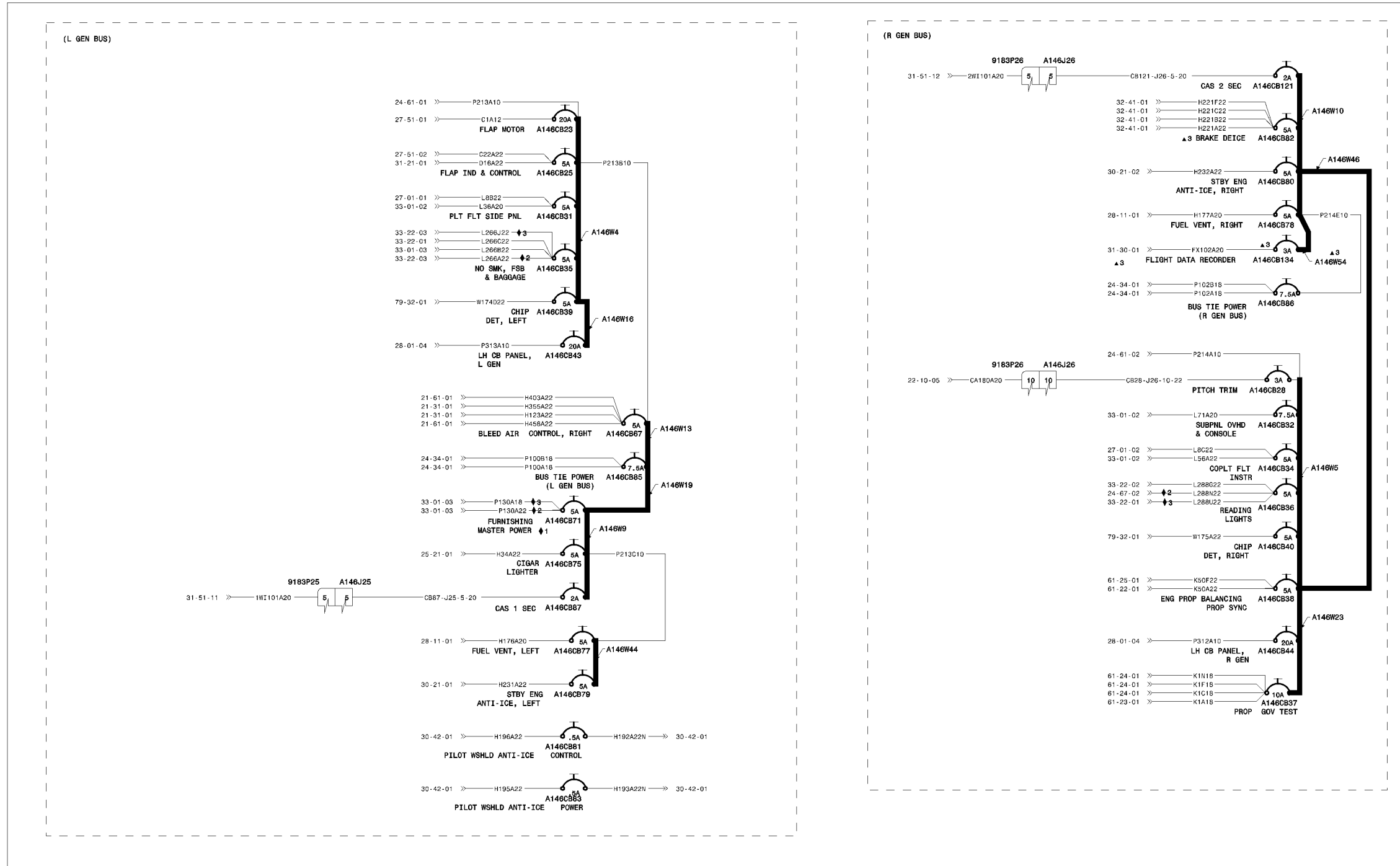
PANEL ASSEMBLY - CIRCUIT BREAKER, RIGHT  
Figure 06 (Sheet 1)



BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY				
			FROM	TO					
			1	2	3	4	5	6	7
A146J30	206837-1	. PLUG, 23-24S CB PNL (ZONE 246) . . . . .	V00779						01 R
-	131741-3	. . MARKER BAND . . . . .	V70898						01 R
-	193846-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779						02 R
-	206138-8	. . BACKSHELL . . . . .	V06090						01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988						01 R
-	66101-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779						02 R
-	66105-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779						17 R
A146J31	206037-1	. PLUG CB PNL, R (ZONE 246) . . . . .	V00779						01 R
-	131741-3	. . MARKER BAND . . . . .	V70898						01 R
-	193846-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779						01 R
-	206070-1	. . BACKSHELL . . . . .	V00779						01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988						01 R
-	66101-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779						03 R
-	66105-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779						10 R
CDC302	200838-2	. RECEPTACLE, 34 POSITION CAB GND BLK, R . . . . .	V00779						01 R
-	131741-3	. . MARKER BAND . . . . .	V70898						01 R
-	193846-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779						01 R
-	201224-1	. . BACKSHELL . . . . .	V00779						01 R
-	201328-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779						11 R
-	202508-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779						01 R
-	203618-1	. . JACKSCREW . . . . .	V00779						02 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988						01 R

**BEECHCRAFT®  
MODEL B300/B300C FUSION  
WIRING DIAGRAM MANUAL**



A146 PANEL ASSY - CIRCUIT BREAKER, RIGHT  
NOTE: 1/2 AMP DEPICTED AS .5A.

◆1 FOR FM SERIALS  
A146CB71 IS 10 AMP.  
◆2 FL SERIALS  
◆3 FM SERIALS

130-360242\_1\_3

PANEL ASSEMBLY - CIRCUIT BREAKER, RIGHT  
Figure 06 (Sheet 2)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG	REF	PART NUMBER	NOMENCLATURE	EFFECTIVITY	UNITS
	DES			FROM TO	PER ASSY
		1 2 3 4 5 6 7			
06			PANEL ASSEMBLY - CIRCUIT BREAKER, RIGHT	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	
	9183P25	1-480439-0	. RECEPTACLE, 16 CIRCUIT RH CB PNL . . . . .	V00779	01 R
-		131741-3	. . MARKER BAND . . . . .	V70898	01 R
-		60618-5	. . TERMINAL PIN CONTACT . . . . .	V00779	10 R
-		60620-5	. . TERMINAL PIN CONTACT . . . . .	V00779	03 R
-		D-436-0097	. . SEALING SLEEVE . . . . .	V06090	01 R
	9183P26	1-480288-0	. RECEPTACLE, 12 CIRCUIT RH CB PNL . . . . .	V00779	01 R
-		131741-3	. . MARKER BAND . . . . .	V70898	01 R
-		60618-5	. . TERMINAL PIN CONTACT . . . . .	V00779	07 R
-		60620-5	. . TERMINAL PIN CONTACT . . . . .	V00779	02 R
	A146CB12	1	. CIRCUIT BREAKER MFD HEATER (ZONE 246) . . . . .		RF R
-		MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
	A146CB13	4	. CIRCUIT BREAKER FLIGHT DATA RECORDER (ZONE 246) . . . . . W/ OPTIONAL DFDR INSTALLED		RF R
	A146CB23		. CIRCUIT BREAKER FLAP MOTOR (ZONE 246) . . . . .		RF R
-		MS25036-111	. . TERMINAL RING TONGUE . . . . .	V70898	02 R
	A146CB25		. CIRCUIT BREAKER FLAP IND & CONTROL (ZONE 246) . . . . .		RF R
-		MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
-		MS25036-111	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
	A146CB28		. CIRCUIT BREAKER PITCH TRIM (ZONE 246) . . . . .		RF R
-		MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
-		MS25036-111	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
	A146CB31		. CIRCUIT BREAKER PILOT FLIGHT INSTRUMENT LTS & SIDE PNLS (ZONE 246) . . . . .		RF R
-		MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
	A146CB32		. CIRCUIT BREAKER SUBPANEL OVRHD & CONSOLE LTS (ZONE 246) . . . . .		RF R
-		MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
	A146CB34		. CIRCUIT BREAKER COPLT FLT INSTR (ZONE 246) . . . . .		RF R
-		MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
	A146CB35		. CIRCUIT BREAKER NO SMOKE FSB & BAGGAGE LIGHTS (ZONE 246) . . . . .		RF R
-		MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
	A146CB36		. CIRCUIT BREAKER READING LIGHTS (ZONE 246) . . . . .		RF R
-		MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
	A146CB37		. CIRCUIT BREAKER ENG PROP GOV TEST (ZONE 246) . . . . .		RF R
-		MS25036-107	. . TERMINAL RING TONGUE . . . . .	V70898	02 R
	A146CB38		. CIRCUIT BREAKER ENGINE PROP SYNC (ZONE 246) . . . . .		RF R
-		MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
	A146CB39		. CIRCUIT BREAKER ENG CHIP DET, L (ZONE 246) . . . . .		RF R
-		MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
	A146CB40		. CIRCUIT BREAKER ENG CHIP DET, R (ZONE 246) . . . . .		RF R
-		MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
	A146CB43		. CIRCUIT BREAKER ENGINE TORQUE-METER (AC), L (ZONE 246) . . . . .		RF R
-		MS25036-111	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
	A146CB44		. CIRCUIT BREAKER ENGINE TORQUE-METER (AC), R (ZONE 246) . . . . .		RF R
-		MS25036-111	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
	A146CB67		. CIRCUIT BREAKER BLEED AIR CONT, R (ZONE 246) . . . . .		RF R
-		MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898	02 R
-		MS25036-111	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
	A146CB71		. CIRCUIT BREAKER FURNISHINGS MASTER CONTROL (ZONE 246) . . . . . FM SERIALS ONLY		RF R
-		MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
	A146CB75		. CIRCUIT BREAKER CIGAR LIGHTER (ZONE 246) . . . . .		RF R
-		MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
-		MS25036-111	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
	A146CB77		. CIRCUIT BREAKER FUEL VENT, L (ZONE 246) . . . . .		RF R
-		MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
-		MS25036-111	. . TERMINAL RING TONGUE . . . . .	V70898	01 R

- ITEM NOT ILLUSTRATED

ICA-434-590169-0009-ICA-003

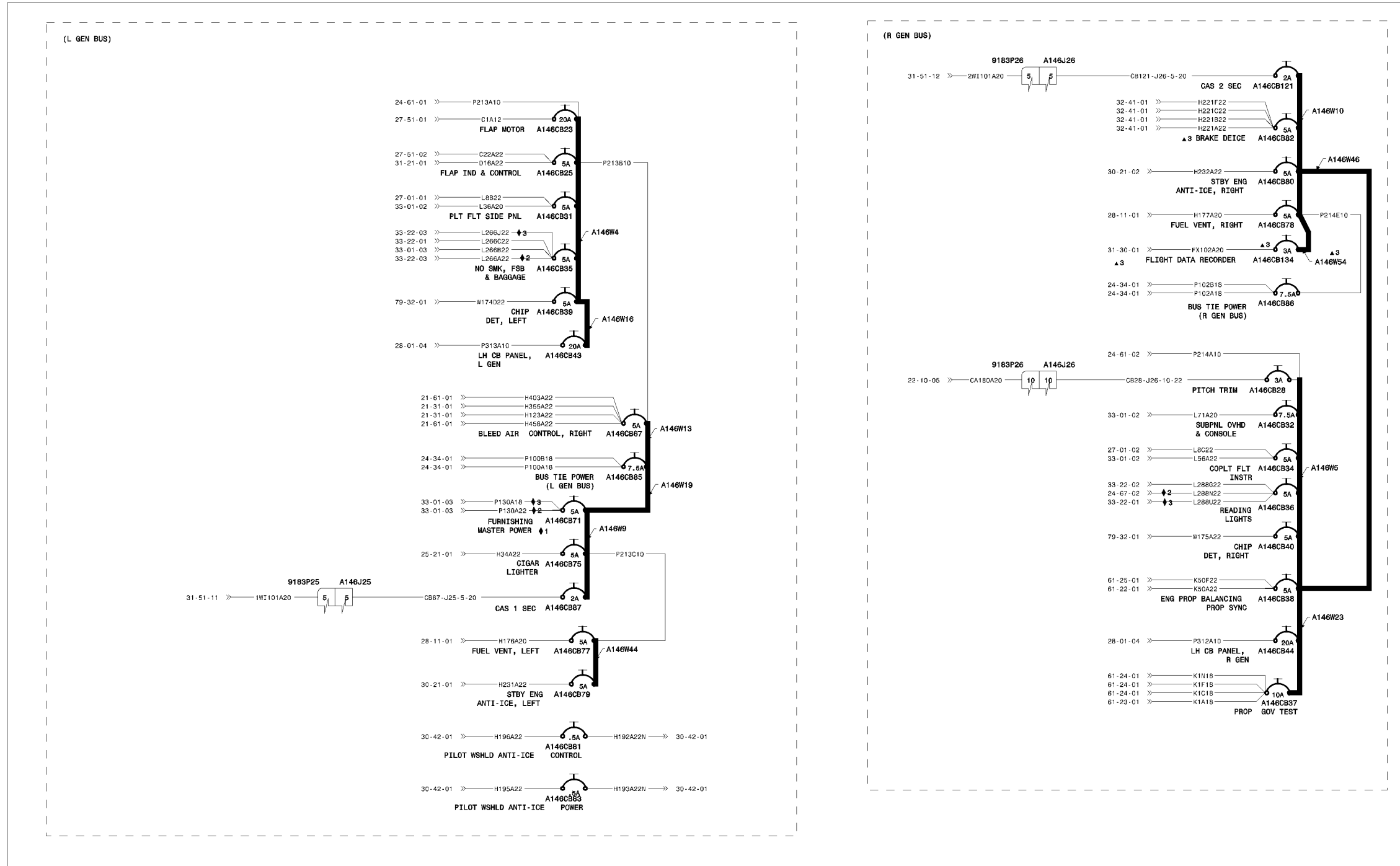
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Figure 06

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**24-64-01** Dec 02/2022

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MODEL B300/B300C FUSION  
WIRING DIAGRAM MANUAL**



A146 PANEL ASSY - CIRCUIT BREAKER, RIGHT  
NOTE: 1/2 AMP DEPICTED AS .5A.

◆1 FOR FM SERIALS  
A146CB71 IS 10 AMP.  
◆2 FL SERIALS  
◆3 FM SERIALS

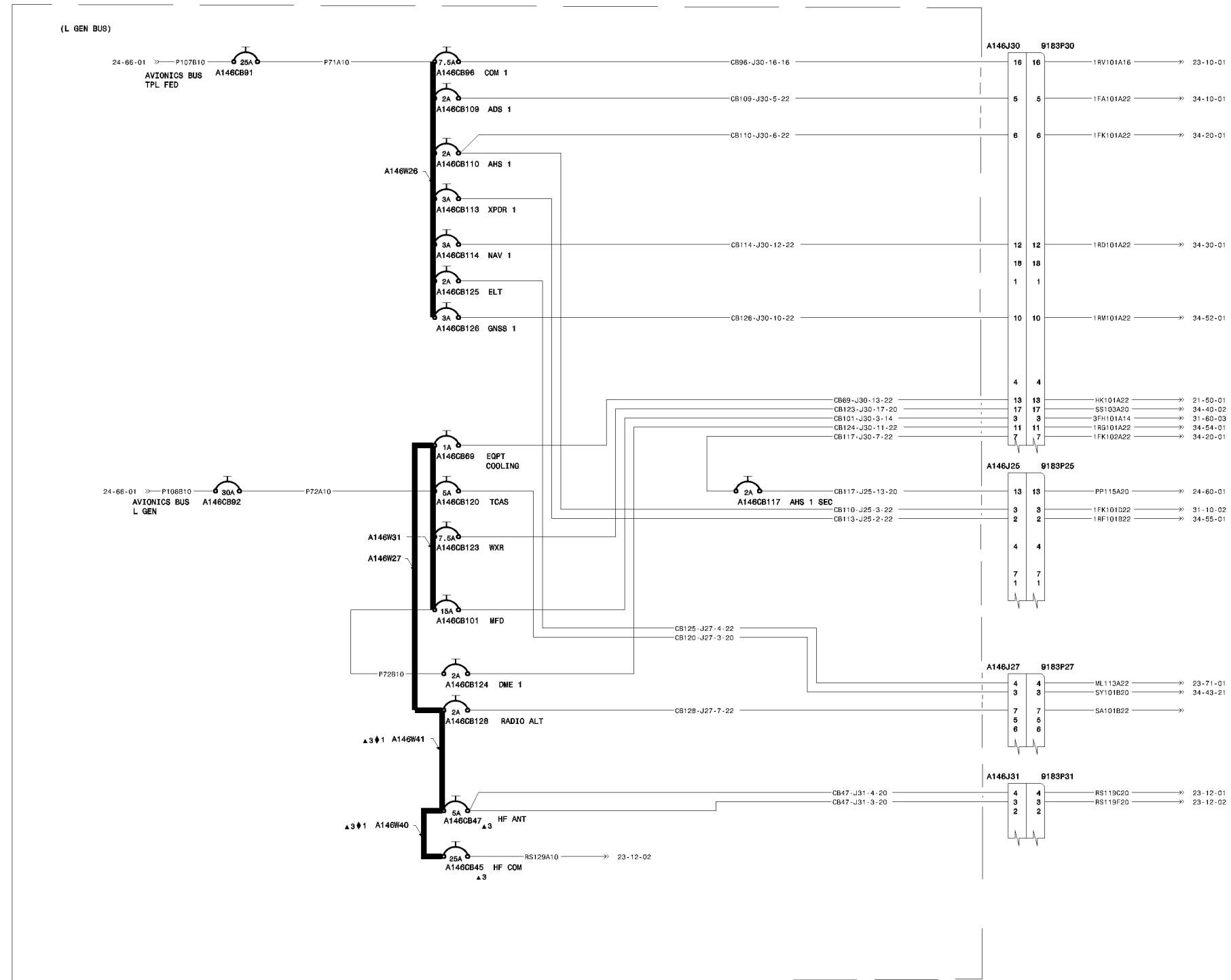
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PANEL ASSEMBLY - CIRCUIT BREAKER, RIGHT  
Figure 06 (Sheet 2)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
			1	2	3
			4	5	6
			7		
A146CB78		. CIRCUIT BREAKER FUEL VENT, R (ZONE 246) . . . . .			RF R
-	MS25036-102	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS25036-111	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
A146CB79		. CIRCUIT BREAKER STANDBY ENG ANTI-ICE, L (ZONE 246) . . . . .			RF R
-	MS25036-102	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
A146CB80		. CIRCUIT BREAKER STANDBY ENG ANTI-ICE, R (ZONE 246) . . . . .			RF R
-	MS25036-102	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
A146CB81		. CIRCUIT BREAKER WINDSHIELD ANTI-ICE CONTROL PILOT (ZONE 246) . . . . .			RF R
-	MS25036-102	. . . TERMINAL RING TONGUE . . . . .	V70898		02 R
A146CB82		. CIRCUIT BREAKER BRAKE DEICE (ZONE 246) . . . . . FL SERIALS ONLY			RF R
-	106242C44	. . . HEATSHRINK . . . . .	V70898		01 R
-	MS25036-102	. . . TERMINAL RING TONGUE . . . . .	V70898		02 R
A146CB83		. CIRCUIT BREAKER WINDSHIELD ANTI-ICE POWER PILOT (ZONE 246) . . . . .			RF R
-	MS25036-102	. . . TERMINAL RING TONGUE . . . . .	V70898		02 R
A146CB85		. CIRCUIT BREAKER GEN NO. 1 BUS BUS TIE POWER (ZONE 246) . . . . .			RF R
-	MS25036-107	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
A146CB86		. CIRCUIT BREAKER GEN NO. 2 BUS BUS TIE POWER (ZONE 246) . . . . .			RF R
-	MS25036-107	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS25036-111	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
A146CB87		. CIRCUIT BREAKER FLT DATA RECORDER (ZONE 246) . . . . .			RF R
-	MS25036-102	. . . TERMINAL RING TONGUE . . . . .	V70898		01 R
A146J25	1-480438-0	. PLUG, 16 CIRCUIT CB PNL (ZONE 246) . . . . .	V00779		01 R
-	131741-3	. . . MARKER BAND . . . . .	V70898		01 R
-	60617-5	. . . TERMINAL SOCKET CONTACT . . . . .	V00779		10 R
-	60619-5	. . . TERMINAL SOCKET CONTACT . . . . .	V00779		03 R
A146J26	1-480287-0	. PLUG, 12 CIRCUIT CB PNL, R (ZONE 246) . . . . .	V00779		01 R
-	131741-3	. . . MARKER BAND . . . . .	V70898		01 R
-	60617-5	. . . TERMINAL SOCKET CONTACT . . . . .	V00779		07 R
-	60619-5	. . . TERMINAL SOCKET CONTACT . . . . .	V00779		02 R

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A146 PANEL ASSY - CIRCUIT BREAKER, RIGHT  
 NOTE: 1/2 AMP DEPICTED AS .5A.

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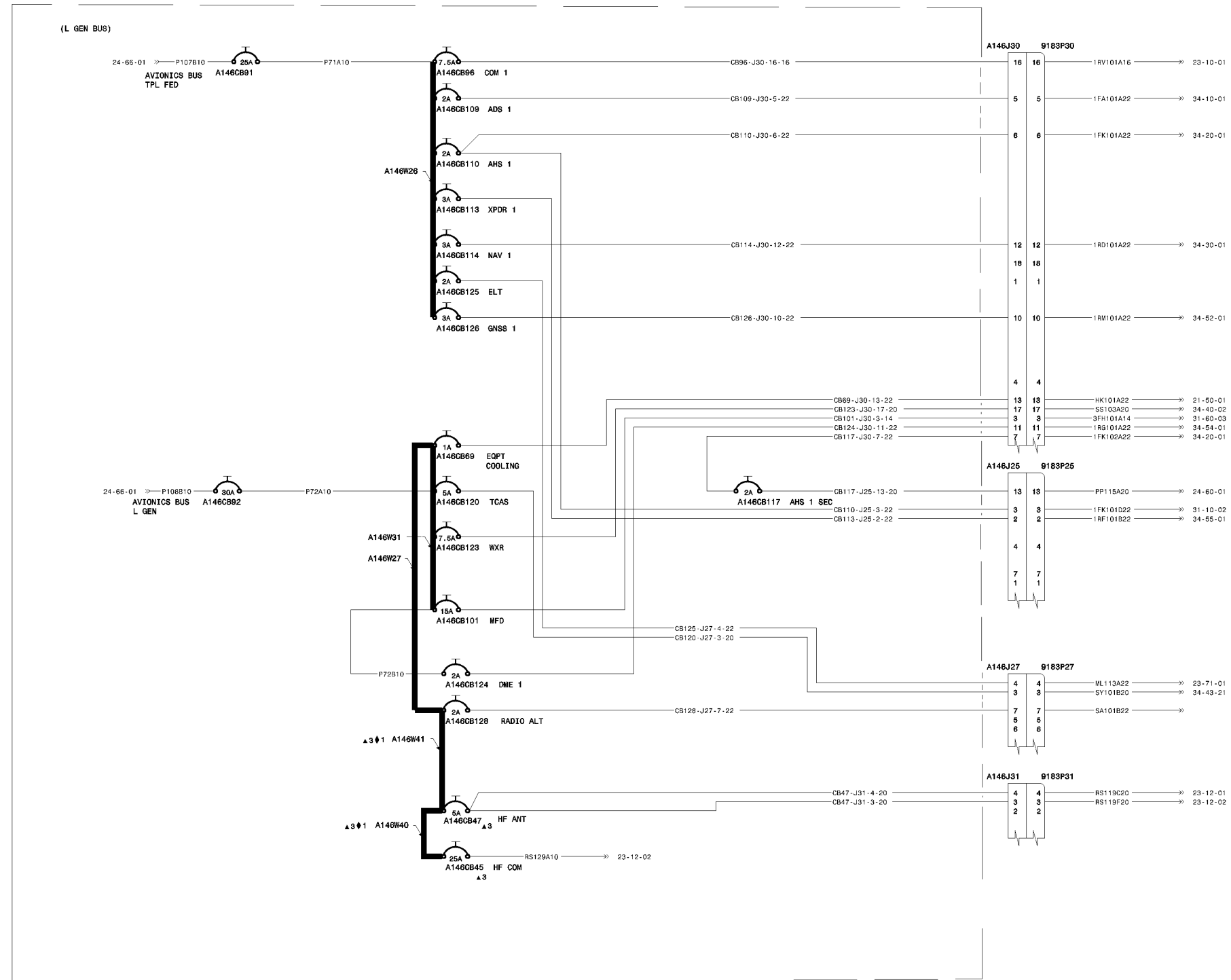
PANEL ASSEMBLY - CIRCUIT BREAKER, RIGHT  
 Figure 03 (Sheet 1)

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
03		PANEL ASSEMBLY - CIRCUIT BREAKER, RIGHT	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
9183P25	1-480439-0	. . RECEPTACLE, 16 CIRCUIT RH CB PNL . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	60618-5	. . TERMINAL PIN CONTACT . . . . .	V00779		10 R
-	60620-5	. . TERMINAL PIN CONTACT . . . . .	V00779		03 R
-	D-436-0097	. . SEALING SLEEVE . . . . .	V06090		01 R
9183P27	1-480286-0	. . RECEPTACLE, 10 CIRCUIT . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	60618-5	. . TERMINAL PIN CONTACT . . . . .	V00779		07 R
9183P30	206838-2	. . RECEPTACLE RH CB PNL DISC . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	193844-1	. . TERMINAL PIN CRIMP . . . . .	V00779		02 R
-	206138-1	. . BACKSHELL . . . . .	V00779		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66099-4	. . TERMINAL PIN CONTACT . . . . .	V00779		02 R
-	66103-4	. . TERMINAL PIN CONTACT . . . . .	V00779		17 R
9183P31	206036-3	. . RECEPTACLE, 17-16P RH CB PNL DISC . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	193844-1	. . TERMINAL PIN CRIMP . . . . .	V00779		01 R
-	206070-1	. . BACKSHELL . . . . .	V00779		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66099-4	. . TERMINAL PIN CONTACT . . . . .	V00779		03 R
-	66103-4	. . TERMINAL PIN CONTACT . . . . .	V00779		10 R
A146CB10		. . CIRCUIT BREAKER MFD (ZONE 246) . . . . .			RF R
1					
-	MS25036-107	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS25036-111	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A146CB10		. . CIRCUIT BREAKER ADC NO. 1 (ZONE 246) . . . . .			RF R
9					
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A146CB11		. . CIRCUIT BREAKER AHC NO. 1 (ZONE 246) . . . . .			RF R
0					
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A146CB11		. . CIRCUIT BREAKER ATC NO. 1 (ZONE 246) . . . . .			RF R
3					
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A146CB11		. . CIRCUIT BREAKER NAV NO. 1 (ZONE 246) . . . . .			RF R
4					
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A146CB11		. . CIRCUIT BREAKER AHC NO. 1 SEC (ZONE 246) . . . . .			RF R
7					
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
A146CB12		. . CIRCUIT BREAKER TCAS (ZONE 246) . . . . .			RF R
0					
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS25036-111	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A146CB12		. . CIRCUIT BREAKER DME NO. 1 (ZONE 246) . . . . .			RF R
4					
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS25036-111	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A146CB12		. . CIRCUIT BREAKER CDU NO. 1 (ZONE 246) . . . . .			RF R
5					
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A146CB12		. . CIRCUIT BREAKER GPS NO. 1 (ZONE 246) . . . . .			RF R
6					
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A146CB45		. . CIRCUIT BREAKER HF COM (ZONE 246) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-111	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A146CB47		. . CIRCUIT BREAKER HF ANTENNA COUPLER (ZONE 246) . . . . .			RF R
-	106242C44	. . HEATSHRINK . . . . .	V70898		01 R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A146CB69		. . CIRCUIT BREAKER NOSE EQPT COOLING (ZONE 246) . . . . .			RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A146CB91		. . CIRCUIT BREAKER AVIONICS POWER TRIPLE FED BUS (ZONE 246) . . . . .			RF R
-	MS25036-156	. . TERMINAL RING TONGUE . . . . .	V70898		02 R

- ITEM NOT ILLUSTRATED

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A146 PANEL ASSY - CIRCUIT BREAKER, RIGHT  
 NOTE: 1/2 AMP DEPICTED AS .5A.

⚡ 1 USED WITH HF/SELCAL OPTION

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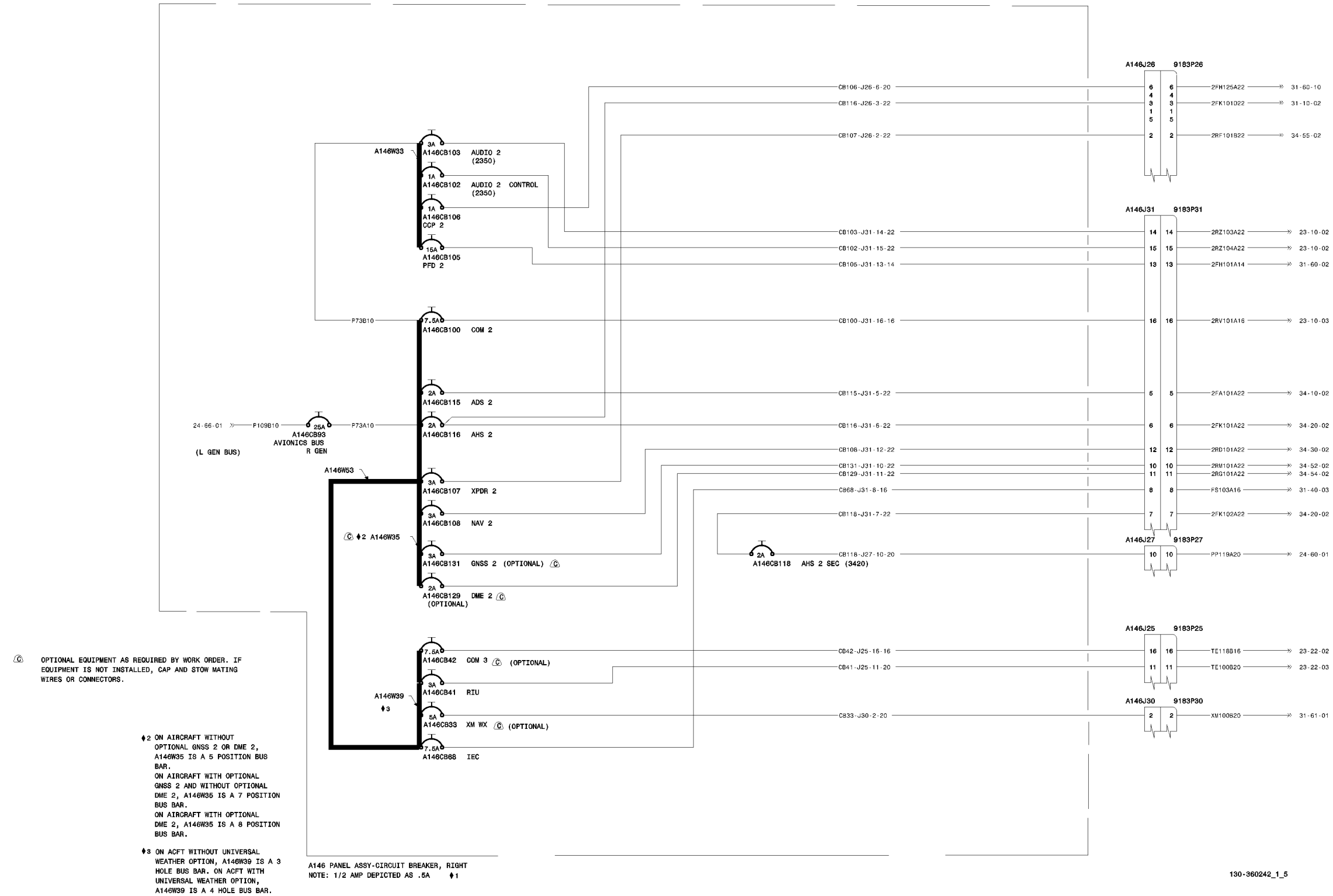
PANEL ASSEMBLY - CIRCUIT BREAKER, RIGHT  
 Figure 03 (Sheet 1)



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FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
A146CB92		. CIRCUIT BREAKER AVIONICS POWER GENERATOR BUS, L (ZONE 246) . . . . .			RF R
-	MS25036-156	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
A146CB96		. CIRCUIT BREAKER COM NO. 1 (ZONE 246) . . . . .			RF R
-	MS25036-107	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS25036-111	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A146J25	1-480438-0	. PLUG, 16 CIRCUIT CB PNL (ZONE 246) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	60617-5	. . TERMINAL SOCKET CONTACT . . . . .	V00779		10 R
-	60619-5	. . TERMINAL SOCKET CONTACT . . . . .	V00779		03 R
A146J27	1-480285-0	. PLUG, 10 CIRCUIT CB PNL, R (ZONE 246) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	60617-5	. . TERMINAL SOCKET CONTACT . . . . .	V00779		07 R
A146J30	206837-1	. PLUG, 23-24S CB PNL (ZONE 246) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	193846-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779		02 R
-	206138-8	. . BACKSHELL . . . . .	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		02 R
-	66105-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		17 R
A146J31	206037-1	. PLUG CB PNL, R (ZONE 246) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	193846-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779		01 R
-	206070-1	. . BACKSHELL . . . . .	V00779		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		03 R
-	66105-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		10 R

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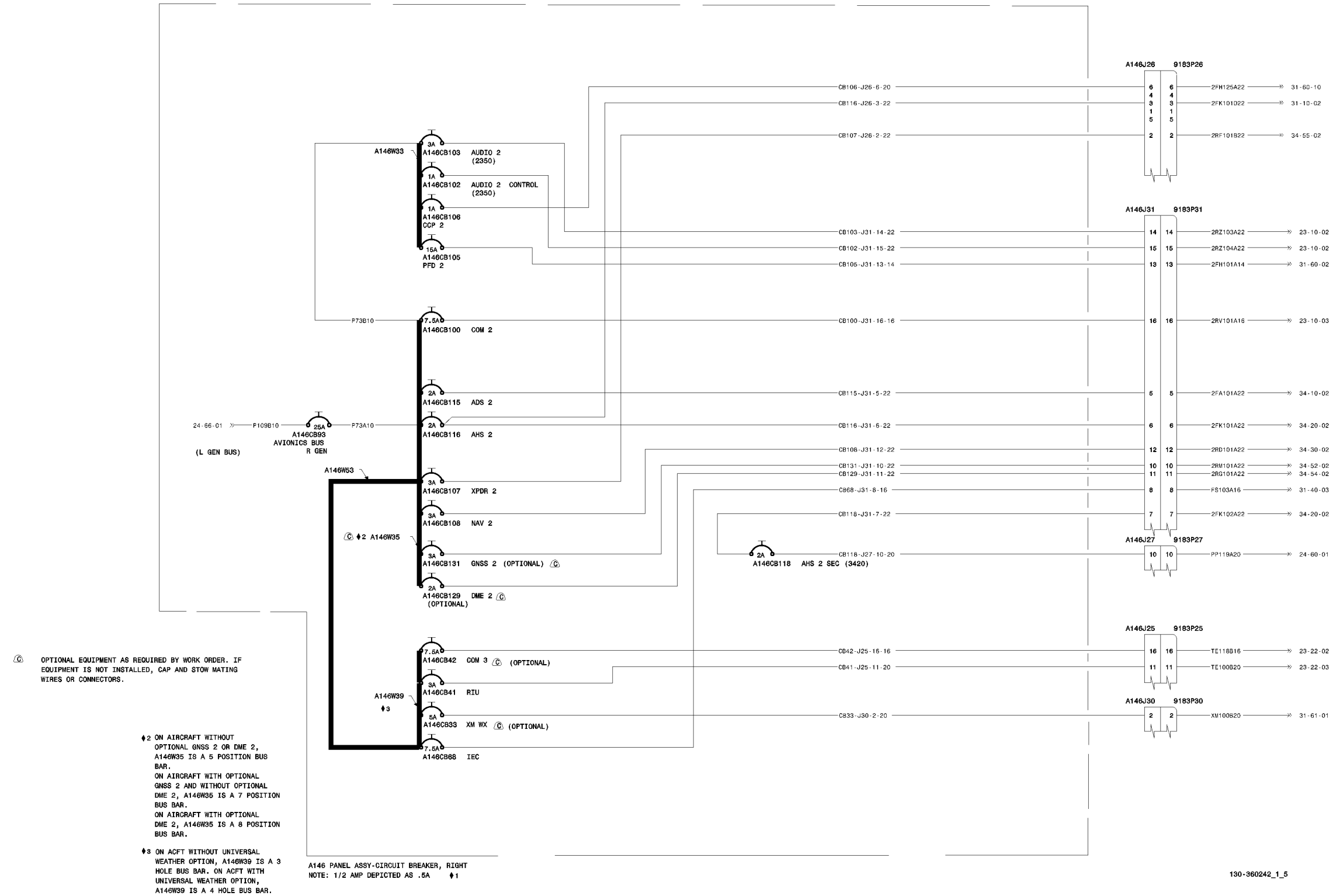
PANEL ASSEMBLY - CIRCUIT BREAKER, RIGHT  
 Figure 03 (Sheet 1)

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 WIRING DIAGRAM MANUAL

FIG	REF	PART NUMBER	NOMENCLATURE	EFFECTIVITY	UNITS
	DES			FROM TO	PER ASSY
		1 2 3 4 5 6 7			
03			PANEL ASSEMBLY - CIRCUIT BREAKER, RIGHT	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	
	9183P25	1-480439-0	. RECEPTACLE, 16 CIRCUIT RH CB PNL . . . . .	V00779	01 R
-		131741-3	. . MARKER BAND . . . . .	V70898	01 R
-		60618-5	. . TERMINAL PIN CONTACT . . . . .	V00779	10 R
-		60620-5	. . TERMINAL PIN CONTACT . . . . .	V00779	03 R
-		D-436-0097	. . SEALING SLEEVE . . . . .	V06090	01 R
	9183P26	1-480288-0	. RECEPTACLE, 12 CIRCUIT RH CB PNL . . . . .	V00779	01 R
-		131741-3	. . MARKER BAND . . . . .	V70898	01 R
-		60618-5	. . TERMINAL PIN CONTACT . . . . .	V00779	07 R
-		60620-5	. . TERMINAL PIN CONTACT . . . . .	V00779	02 R
	9183P27	1-480286-0	. RECEPTACLE, 10 CIRCUIT . . . . .	V00779	01 R
-		131741-3	. . MARKER BAND . . . . .	V70898	01 R
-		60618-5	. . TERMINAL PIN CONTACT . . . . .	V00779	07 R
	9183P30	206838-2	. RECEPTACLE RH CB PNL DISC . . . . .	V00779	01 R
-		131741-3	. . MARKER BAND . . . . .	V70898	01 R
-		193844-1	. . TERMINAL PIN CRIMP . . . . .	V00779	02 R
-		206138-1	. . BACKSHELL . . . . .	V00779	01 R
-		52672	. . FIRE RESISTANT TAPE . . . . .	V02988	01 R
-		66099-4	. . TERMINAL PIN CONTACT . . . . .	V00779	02 R
-		66103-4	. . TERMINAL PIN CONTACT . . . . .	V00779	17 R
	9183P31	206036-3	. RECEPTACLE, 17-16P RH CB PNL DISC. . . . .	V00779	01 R
-		131741-3	. . MARKER BAND . . . . .	V70898	01 R
-		193844-1	. . TERMINAL PIN CRIMP . . . . .	V00779	01 R
-		206070-1	. . BACKSHELL . . . . .	V00779	01 R
-		52672	. . FIRE RESISTANT TAPE . . . . .	V02988	01 R
-		66099-4	. . TERMINAL PIN CONTACT . . . . .	V00779	03 R
-		66103-4	. . TERMINAL PIN CONTACT . . . . .	V00779	10 R
	A146CB10		. CIRCUIT BREAKER COM NO. 2 (ZONE 246) . . . . .		RF R
-		MS25036-107	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
-		MS25036-111	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
	A146CB10		. CIRCUIT BREAKER CPLT AUDIO CONTROL (ZONE 246) . . . . .		RF R
-		MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
	A146CB10		. CIRCUIT BREAKER CPLT AUDIO (ZONE 246) . . . . .		RF R
-		MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
-		MS25036-111	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
	A146CB10		. CIRCUIT BREAKER PFD NO. 2 (ZONE 246). . . . .		RF R
-		MS25036-107	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
	A146CB10		. CIRCUIT BREAKER CCP NO. 2 (ZONE 246) . . . . .		RF R
-		MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
	A146CB10		. CIRCUIT BREAKER ATC NO. 2 (ZONE 246). . . . .		RF R
-		MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
	A146CB10		. CIRCUIT BREAKER NAV NO. 2 (ZONE 246). . . . .		RF R
-		MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
	A146CB11		. CIRCUIT BREAKER ADC NO. 2 (ZONE 246) . . . . .		RF R
-		MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
	A146CB11		. CIRCUIT BREAKER AHC NO. 2 (ZONE 246) . . . . .		RF R
-		MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
-		MS25036-111	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
	A146CB11		. CIRCUIT BREAKER AHC NO. 2 SEC (ZONE 246) . . . . .		RF R
-		MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898	02 R
	A146CB12		. CIRCUIT BREAKER DME NO. 2 (ZONE 246) . . . . .		RF R
-		106242C44	. . HEATSHRINK . . . . .	V70898	01 R
-		MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898	01 R

- ITEM NOT ILLUSTRATED

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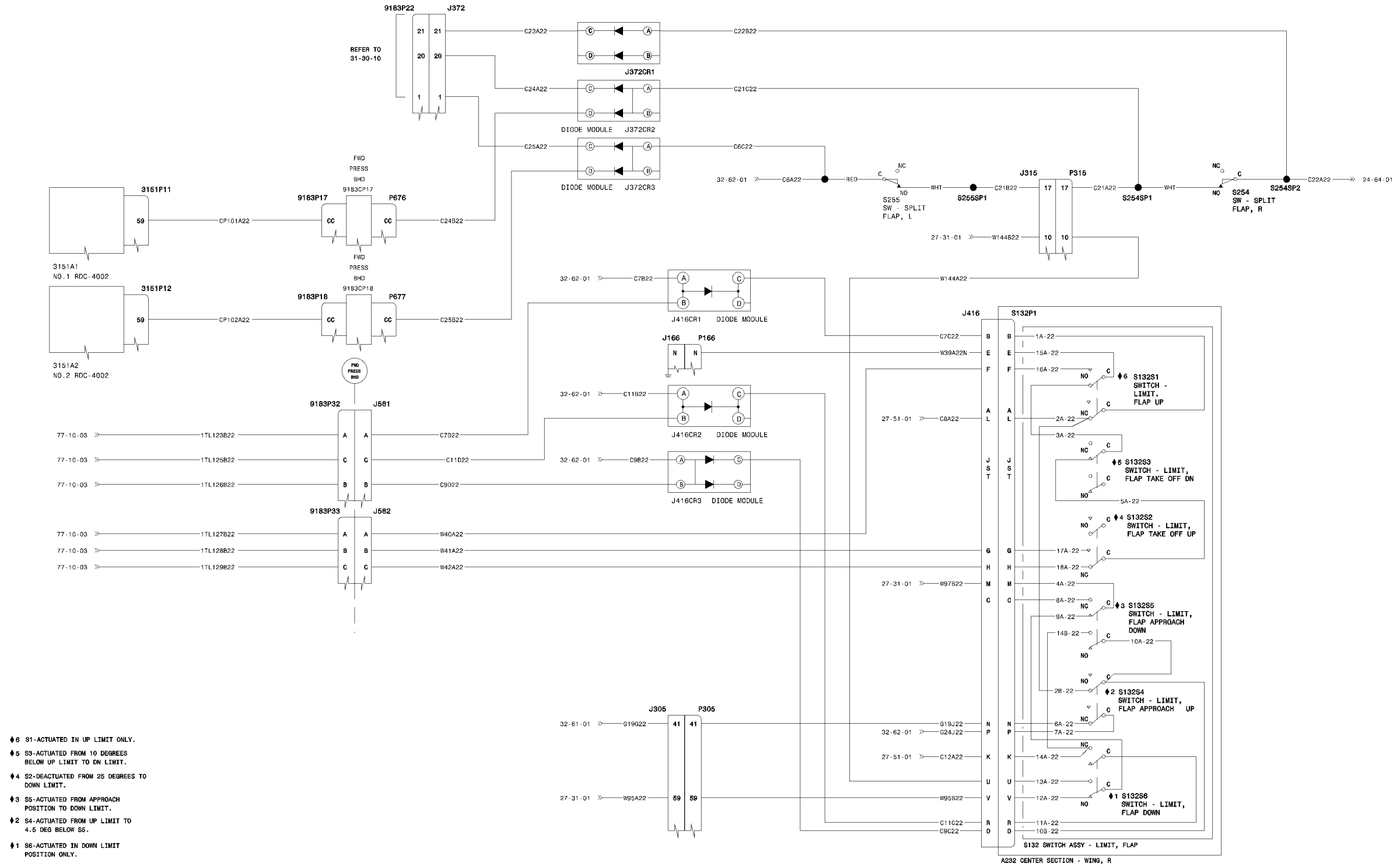


PANEL ASSEMBLY - CIRCUIT BREAKER, RIGHT  
 Figure 03 (Sheet 1)

BEECHCRAFT®  
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 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
A146CB13 1		. CIRCUIT BREAKER GPS NO. 2 (ZONE 246) . . . . .			RF R
-	106242C44	. . HEATSHRINK		V70898	01 R
-	MS25036-102	. . TERMINAL RING TONGUE		V70898	01 R
A146CB33		. CIRCUIT BREAKER AVIONICS & ENG INSTR LIGHTS (ZONE 246) . . . . .			RF R
-	106242C44	. . HEATSHRINK		V70898	01 R
-	MS25036-102	. . TERMINAL RING TONGUE		V70898	01 R
A146CB41		. CIRCUIT BREAKER CMU (ZONE 246). . . . .			RF R
-	106242C44	. . HEATSHRINK		V70898	AR R
-	MS25036-107	. . TERMINAL RING TONGUE		V70898	01 R
A146CB42		. CIRCUIT BREAKER COM NO. 3 (ZONE 246) . . . . .			RF R
-	106242C44	. . HEATSHRINK		V70898	01 R
-	MS25036-107	. . TERMINAL RING TONGUE		V70898	01 R
A146CB68		. CIRCUIT BREAKER IEC (ZONE 246) . . . . .			RF R
-	MS25036-107	. . TERMINAL RING TONGUE		V70898	01 R
A146CB93		. CIRCUIT BREAKER AVIONICS POWER GENERATOR BUS, R (ZONE 246) . . . . .			RF R
-	MS25036-156	. . TERMINAL RING TONGUE		V70898	02 R
A146J25	1-480438-0	. PLUG, 16 CIRCUIT CB PNL (ZONE 246) . . . . .		V00779	01 R
-	131741-3	. . MARKER BAND		V70898	01 R
-	60617-5	. . TERMINAL SOCKET CONTACT		V00779	10 R
-	60619-5	. . TERMINAL SOCKET CONTACT		V00779	03 R
A146J26	1-480287-0	. PLUG, 12 CIRCUIT CB PNL, R (ZONE 246) . . . . .		V00779	01 R
-	131741-3	. . MARKER BAND		V70898	01 R
-	60617-5	. . TERMINAL SOCKET CONTACT		V00779	07 R
-	60619-5	. . TERMINAL SOCKET CONTACT		V00779	02 R
A146J27	1-480285-0	. PLUG, 10 CIRCUIT CB PNL, R (ZONE 246) . . . . .		V00779	01 R
-	131741-3	. . MARKER BAND		V70898	01 R
-	60617-5	. . TERMINAL SOCKET CONTACT		V00779	07 R
A146J30	206837-1	. PLUG, 23-24S CB PNL (ZONE 246) . . . . .		V00779	01 R
-	131741-3	. . MARKER BAND		V70898	01 R
-	193846-1	. . TERMINAL SOCKET CONTACT		V00779	02 R
-	206138-8	. . BACKSHELL		V06090	01 R
-	52672	. . FIRE RESISTANT TAPE		V02988	01 R
-	66101-4	. . TERMINAL SOCKET CONTACT		V00779	02 R
-	66105-4	. . TERMINAL SOCKET CONTACT		V00779	17 R
A146J31	206037-1	. PLUG CB PNL, R (ZONE 246) . . . . .		V00779	01 R
-	131741-3	. . MARKER BAND		V70898	01 R
-	193846-1	. . TERMINAL SOCKET CONTACT		V00779	01 R
-	206070-1	. . BACKSHELL		V00779	01 R
-	52672	. . FIRE RESISTANT TAPE		V02988	01 R
-	66101-4	. . TERMINAL SOCKET CONTACT		V00779	03 R
-	66105-4	. . TERMINAL SOCKET CONTACT		V00779	10 R

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**



- ◆ 6 S1 - ACTUATED IN UP LIMIT ONLY.
- ◆ 5 S3 - ACTUATED FROM 10 DEGREES BELOW UP LIMIT TO DN LIMIT.
- ◆ 4 S2 - DEACTUATED FROM 25 DEGREES TO DOWN LIMIT.
- ◆ 3 S5 - ACTUATED FROM APPROACH POSITION TO DOWN LIMIT.
- ◆ 2 S4 - ACTUATED FROM UP LIMIT TO 4.5 DEG BELOW S5.
- ◆ 1 S6 - ACTUATED IN DOWN LIMIT POSITION ONLY.

NOTE: CIRCUIT SHOWN IN DOWN (FULL FLAP) LIMIT POSITION.

A232 CENTER SECTION - WING, R

434-360034\_16\_08

FLAP DRIVERS ELECTRICAL CONTROL  
 Figure 05 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
05		FLAP DRIVERS ELECTRICAL CONTROL	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
3151P11	D38999/26FF35SN	. PLUG RDC NO. 1 . . . . .	V81349		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/56-348	. . TERMINAL SOCKET CONTACT	V81349		AR R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		01 R
-	M85049/39S19N	. . BACKSHELL	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE	V70898		01 R
-	MS27488-22	. . SEALING PLUG	V96906		AR R
3151P12	D38999/26FF35SN	. PLUG RDC NO. 2 . . . . .	V81349		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/56-348	. . TERMINAL SOCKET CONTACT	V81349		66 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		01 R
-	M85049/39S19N	. . BACKSHELL	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE	V70898		01 R
-	MS27488-22	. . SEALING PLUG	V96906		20 R
9183P17	MS3476W22-55P	. PLUG PRESS BKHD. . . . .	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT	V81349		55 R
-	M85049/52S22W	. . BACKSHELL	V81349		01 R
-	MS27488-20	. . SEALING PLUG	V96906		09 R
9183P18	MS3476W22-55PW	. PLUG PRESS BKHD. . . . .	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT	V81349		55 R
-	M85049/52S22W	. . BACKSHELL	V81349		01 R
-	MS27488-20	. . SEALING PLUG	V96906		08 R
9183P22	206305-1	. PLUG, 23-37 AVNCS/ELEC (ZONE 232) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	193844-1	. . TERMINAL PIN CRIMP	V00779		01 R
-	206138-1	. . BACKSHELL	V00779		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66099-4	. . TERMINAL PIN CONTACT	V00779		01 R
-	66103-4	. . TERMINAL PIN CONTACT	V00779		AR R
-	66361-4	. . TERMINAL PIN CRIMP			AR R
9183P32	MS3476W22-41P	. PLUG ENG SIGNAL, L (ZONE 231) . . . . .	V96906		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT	V81349		25 R
-	M39029/4-111	. . TERMINAL PIN CONTACT	V81349		09 R
-	M39029/4-112	. . TERMINAL PIN CONTACT	V81349		05 R
-	M39029/9-134	. . TERMINAL PIN CONTACT ALUMEL	V81349		01 R
-	M39029/9-135	. . TERMINAL PIN CONTACT CHROMEL	V81349		01 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		08 R
-	M85049/52S22W	. . BACKSHELL	V81349		01 R
-	MS25036-153	. . TERMINAL RING TONGUE	V70898		02 R
-	MS27488-16	. . SEALING PLUG	V96906		09 R
-	MS27488-20	. . SEALING PLUG	V96906		01 R
9183P33	MS3476W22-41PW	. PLUG ENG SIGNAL, R (ZONE 231) . . . . .	V96906		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT	V81349		25 R
-	M39029/4-111	. . TERMINAL PIN CONTACT	V81349		11 R
-	M39029/4-112	. . TERMINAL PIN CONTACT	V81349		03 R
-	M39029/9-134	. . TERMINAL PIN CONTACT ALUMEL	V81349		01 R
-	M39029/9-135	. . TERMINAL PIN CONTACT CHROMEL	V81349		01 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		08 R
-	M85049/52S22W	. . BACKSHELL	V81349		01 R
-	MS25036-153	. . TERMINAL RING TONGUE	V70898		02 R
-	MS27488-16	. . SEALING PLUG	V96906		11 R

- ITEM NOT ILLUSTRATED

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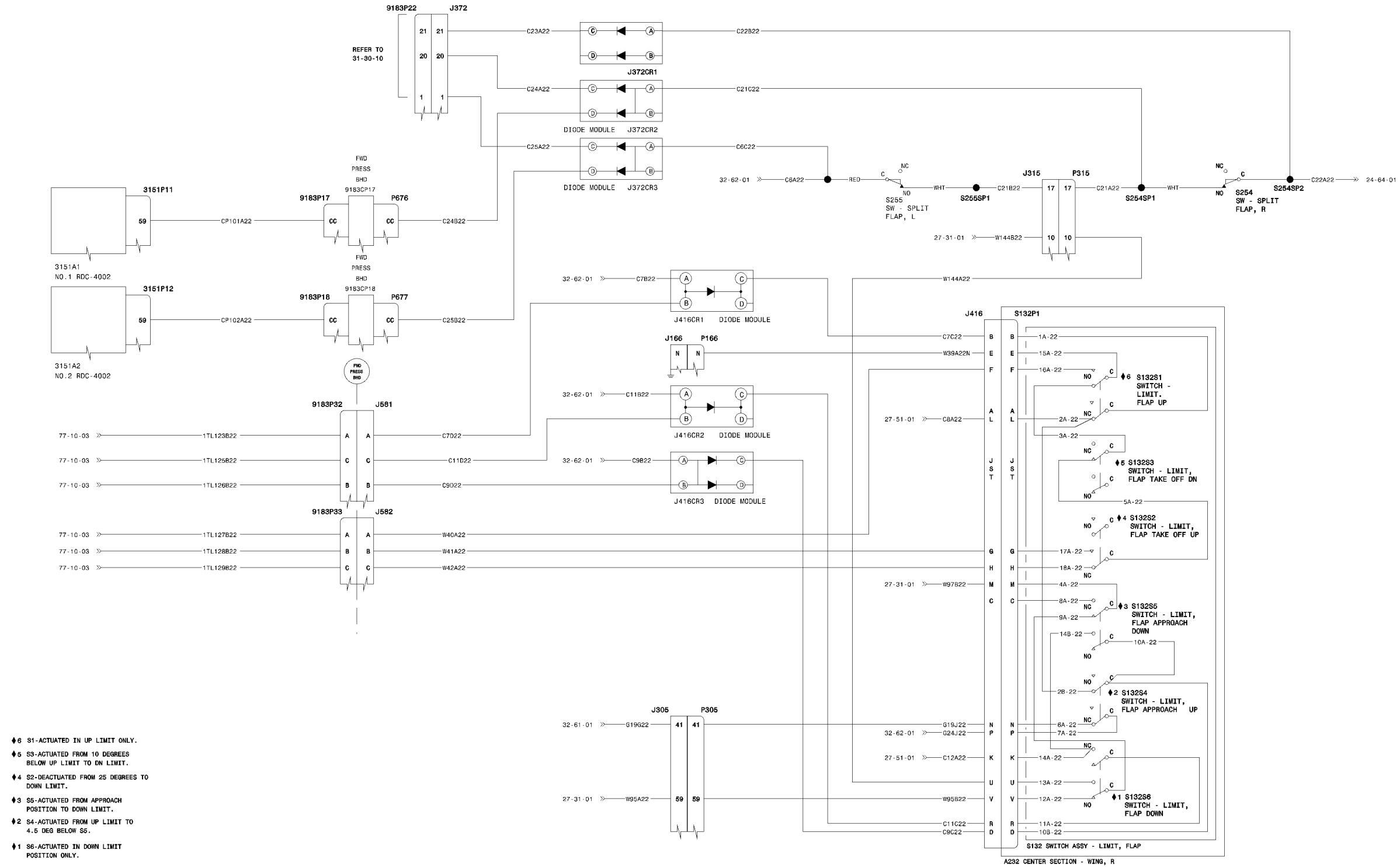
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Figure 05

Page 1

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# BEECHCRAFT® MODEL B300/B300C FUSION WIRING DIAGRAM MANUAL



- ◆ 6 S1 - ACTUATED IN UP LIMIT ONLY.
- ◆ 5 S3 - ACTUATED FROM 10 DEGREES BELOW UP LIMIT TO DN LIMIT.
- ◆ 4 S2 - DEACTUATED FROM 25 DEGREES TO DOWN LIMIT.
- ◆ 3 S5 - ACTUATED FROM APPROACH POSITION TO DOWN LIMIT.
- ◆ 2 S4 - ACTUATED FROM UP LIMIT TO 4.5 DEG BELOW S5.
- ◆ 1 S6 - ACTUATED IN DOWN LIMIT POSITION ONLY.

NOTE: CIRCUIT SHOWN IN DOWN (FULL FLAP) LIMIT POSITION.

A232 CENTER SECTION - WING, R

434-360034\_16\_09

FLAP DRIVERS ELECTRICAL CONTROL  
Figure 05 (Sheet 1)



BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
			1	2	3
J305	205843-2	. RECEPTACLE CROSSOVER FWD (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	205089-1	. . TERMINAL PIN CONTACT	V06090		50 R
-	206138-8	. . BACKSHELL CROSSOVER FWD	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M83519/2-7	. . SHIELD TERMINATION	V81343		02 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		02 R
J315	206151-2	. RECEPTACLE, 23-37 CROSSOVER MAIN (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	206138-8	. . BACKSHELL	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66099-4	. . TERMINAL PIN CONTACT	V00779		03 R
-	66103-4	. . TERMINAL PIN CONTACT	V00779		31 R
-	66602-2	. . TERMINAL PIN CONTACT	V00779		01 R
-	D-436-0098	. . SEALING SLEEVE	V06090		AR R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		01 R
J372	206306-2	. RECEPTACLE, 23-37S AVIONICS DISC (ZONE 249/232) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	193846-1	. . SOCKET	V00779		01 R
-	206138-8	. . BACKSHELL	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT	V00779		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		AR R
-	66360-4	. . TERMINAL SOCKET CONTACT	V00779	FL1234 FL9999	01
-	MS25036-102	. . TERMINAL RING TONGUE	V70898	FL1234 FL9999	01
-	M83519/2-8	. . SHIELD TERMINATION	V81343	FL1234 FL9999	01 R
				FM0098FM9999	
J372CR1	TJSE22702	. TERMINAL JUNCTION . . . . .	V58982	FL1140 FL9999	01 R
		W/ OPTIONAL DFDR INSTALLED		FM0076FM9999	
J372CR2	TJSE22702	. TERMINAL JUNCTION . . . . .	V58982	FL1140 FL9999	01 R
		W/ OPTIONAL DFDR INSTALLED		FM0076FM9999	
J372CR3	TJSE20707	. TERMINAL JUNCTION . . . . .	V58982	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110FM9999	
-	131741-1	. . MARKER BAND	V70898		01 R
-	M39029/1-101	. . TERMINAL PIN CONTACT	V81349		03 R
J416	MS3474L14-19S	. RECEPTACLE FLAP SW ASSY (ZONE 613) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT	V81349		19 R
-	M85049/52-1-14N	. . BACKSHELL	V81349		01 R
-	MS27488-20	. . SEALING PLUG	V96906		05 R
J416CR1	TJSE20701	. TERMINAL JUNCTION . . . . .	V58982	FL1234 FL9999	01 R
				FM0098FM9999	
J416CR2	TJSE20701	. TERMINAL JUNCTION . . . . .	V58982	FL1234 FL9999	01 R
				FM0098FM9999	
J416CR3	TJSE20701	. TERMINAL JUNCTION . . . . .	V58982	FL1234 FL9999	01 R
				FM0098FM9999	
J581	MS3470W22-41S	. RECEPTACLE ENG SIGNAL, L (ZONE 231) . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	D-436-0097	. . SEALING SLEEVE	V06090		03 R
-	D-436-0098	. . SEALING SLEEVE	V06090		02 R
-	M39029/10-140	. . TERMINAL SOCKET CONTACT ALUMEL	V81349		01 R
-	M39029/10-141	. . TERMINAL SOCKET CONTACT CHROMEL	V81349		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT	V81349		25 R
-	M39029/5-116	. . TERMINAL SOCKET CONTACT	V81349		14 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		02 R
-	M85049/52-1-22W	. . BACKSHELL	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE	V70898		01 R
-	MS27488-16	. . SEALING PLUG	V96906		09 R
-	MS27488-20	. . SEALING PLUG	V96906		01 R

- ITEM NOT ILLUSTRATED

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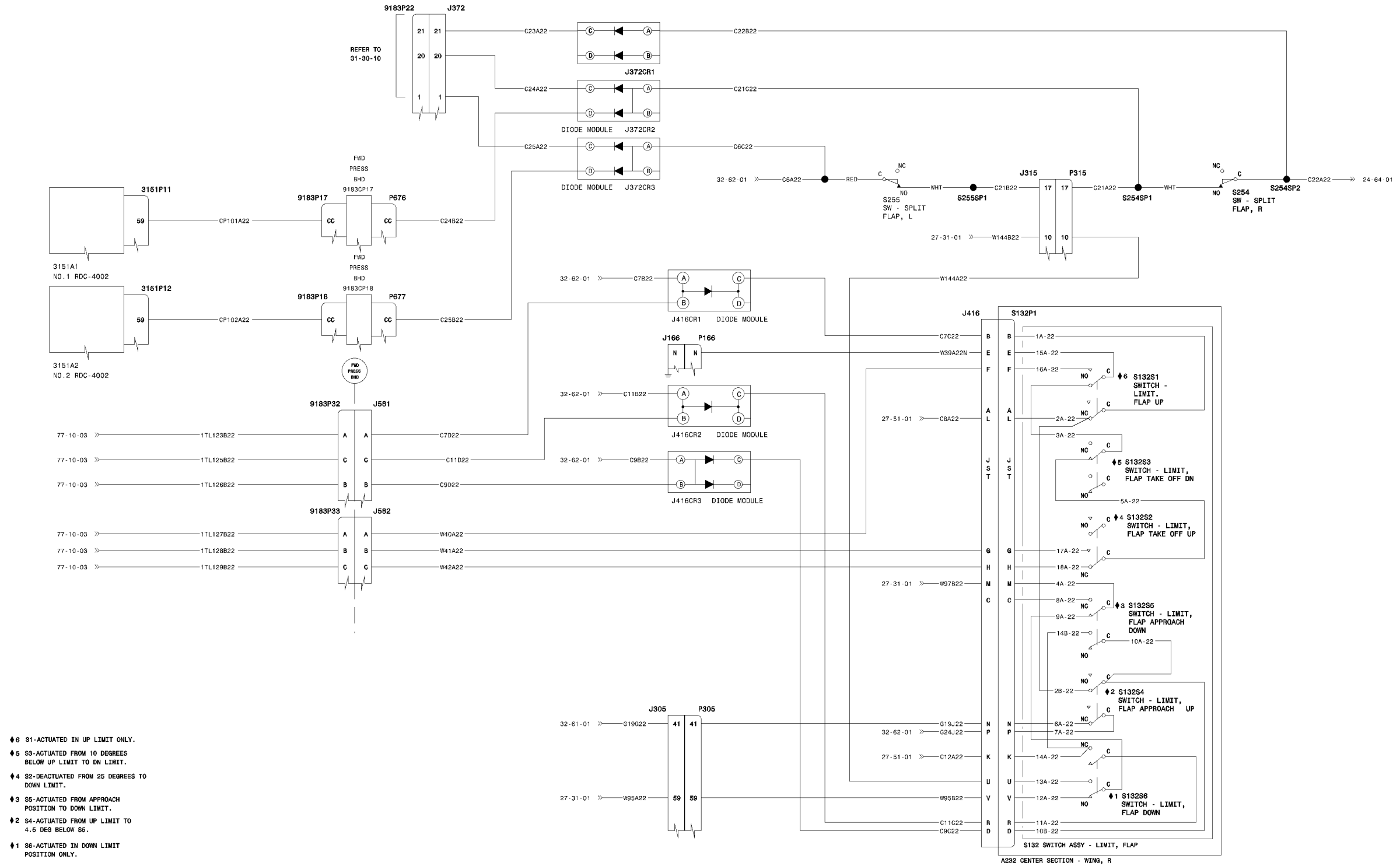
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Figure 05

Page 3

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**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**



- ◆ 6 S1 - ACTUATED IN UP LIMIT ONLY.
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- ◆ 2 S4 - ACTUATED FROM UP LIMIT TO 4.5 DEG BELOW SS.
- ◆ 1 S6 - ACTUATED IN DOWN LIMIT POSITION ONLY.

NOTE: CIRCUIT SHOWN IN DOWN (FULL FLAP) LIMIT POSITION.

FLAP DRIVERS ELECTRICAL CONTROL  
 Figure 05 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
			1	2	3
J582	MS3470W22-41SW	. RECEPTACLE ENG SIGNAL, R (ZONE 231).	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	D-436-0097	. . SEALING SLEEVE	V06090		03 R
-	D-436-0098	. . SEALING SLEEVE	V06090		02 R
-	M39029/10-140	. . TERMINAL SOCKET CONTACT - ALUMEL	V81349		01 R
-	M39029/10-141	. . TERMINAL SOCKET CONTACT - CHROMEL	V81349		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT	V81349		25 R
-	M39029/5-116	. . TERMINAL SOCKET CONTACT	V81349		14 R
-	M83519/2-8	. . SHIELD TERMINATION	V81349		02 R
-	M85049/52-1-22W	. . BACKSHELL	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE	V70898		01 R
-	MS27488-16	. . SEALING PLUG	V96906		11 R
P166	200838-3	. RECEPTACLE, 34 POSITION SUBPANEL GND, R (ZONE 232).	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	201224-1	. . BACKSHELL	V00779		01 R
-	203618-1	. . JACKSCREW	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT	V00779		22 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		02 R
P305	205842-1	. PLUG CROSSOVER FWD (ZONE 143)	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	205090-1	. . TERMINAL SOCKET CONTACT	V00779		49 R
-	206138-8	. . BACKSHELL	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M83519/2-7	. . SHIELD TERMINATION	V81343		02 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		02 R
P315	206150-1	. PLUG, 23-37 CROSSOVER MAIN (ZONE 143)	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	206138-8	. . BACKSHELL	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT	V00779		04 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		31 R
-	D-436-0098	. . SEALING SLEEVE	V06090		01 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		01 R
P651	DPX4MA-A424-33P-	. CONNECTOR	V71468		01 R
		W/ OPTIONAL DFDR INSTALLED			
	0001				
-	030-1975-008 M3	. . CONTACT	V71468		AR R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		AR R
	9029/11-144				
P676	MS3476W22-55S	. PLUG	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT	V81349		55 R
-	M85049/51S22W	. . BACKSHELL	V81349		01 R
-	MS27488-20	. . SEALING PLUG	V96906		10 R
P677	MS3476W22-55SW	. PLUG	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT	V81349		55 R
-	M85049/52S22W	. . BACKSHELL	V81349		01 R
-	MS27488-20	. . SEALING PLUG	V96906		09 R
S254SP1	M81824/1-1	. SPLICE	V81343		01 R
-	131741-1	. . MARKER BAND	V70898		01 R
S254SP2	M81824/1-1	. SPLICE	V81343		01 R
-	131741-1	. . MARKER BAND	V70898		01 R
S255		. SWITCH, PRESSURE SPLIT FLAP, L (ZONE 532).			RF R
S255SP1	M81824/1-1	. SPLICE	V81343		01 R
-	131741-1	. . MARKER BAND	V70898		01 R
S255SP2	M81824/1-1	. SPLICE	V81343		01 R
-	131741-1	. . MARKER BAND	V70898		01 R

- ITEM NOT ILLUSTRATED

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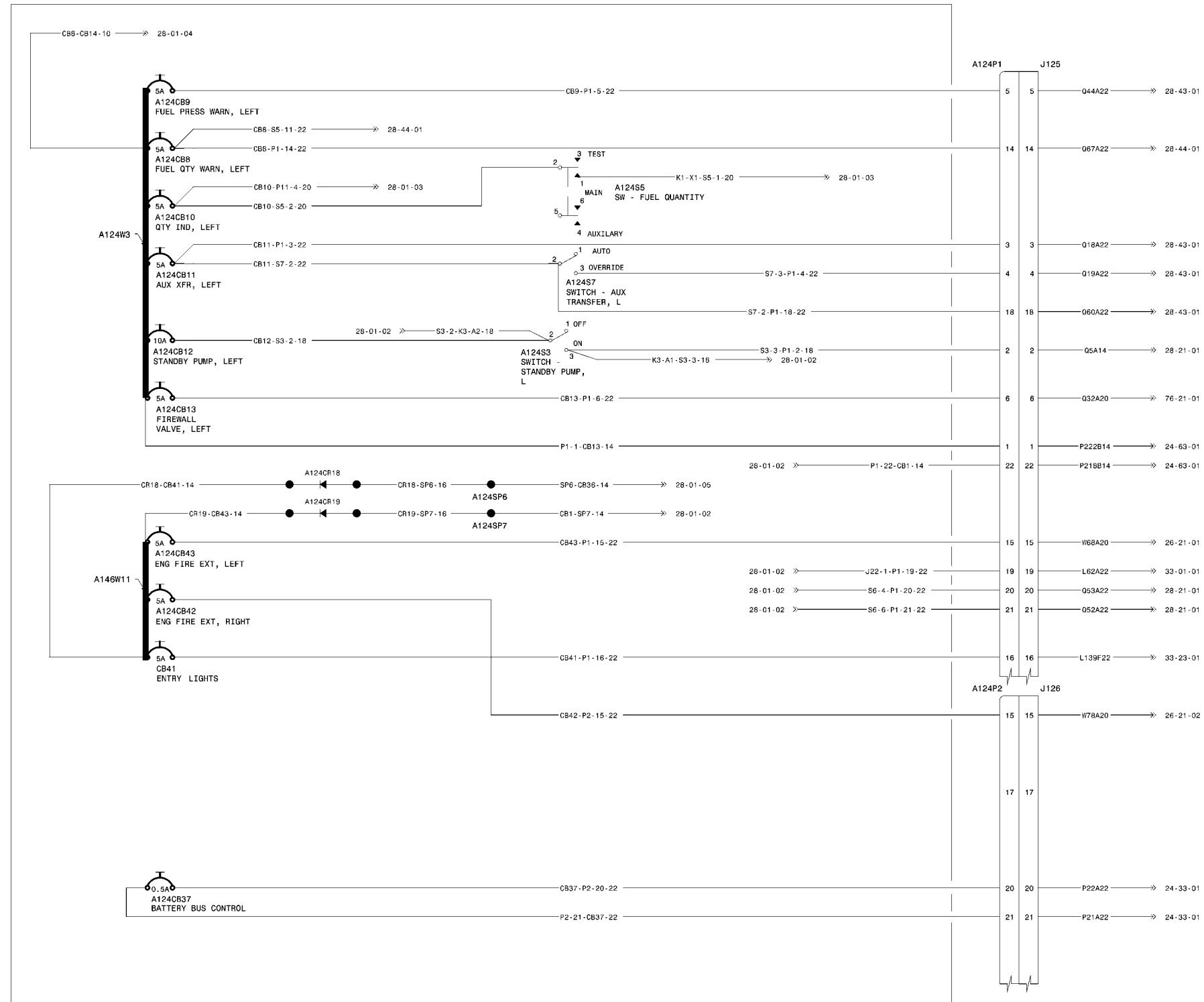
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Figure 05

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BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



♦ FOR CONTINUATION OF A124  
 PANEL ASSY SEE DIAGRAMS  
 28-01-02, 28-01-03, 28-01-04,  
 28-01-05 AND 28-44-01

A124 PANEL ASSEMBLY - FUEL CONTROL ♦

NOTE: 1/2 AMP DEPICTED AS .5A

434-360034\_14\_70

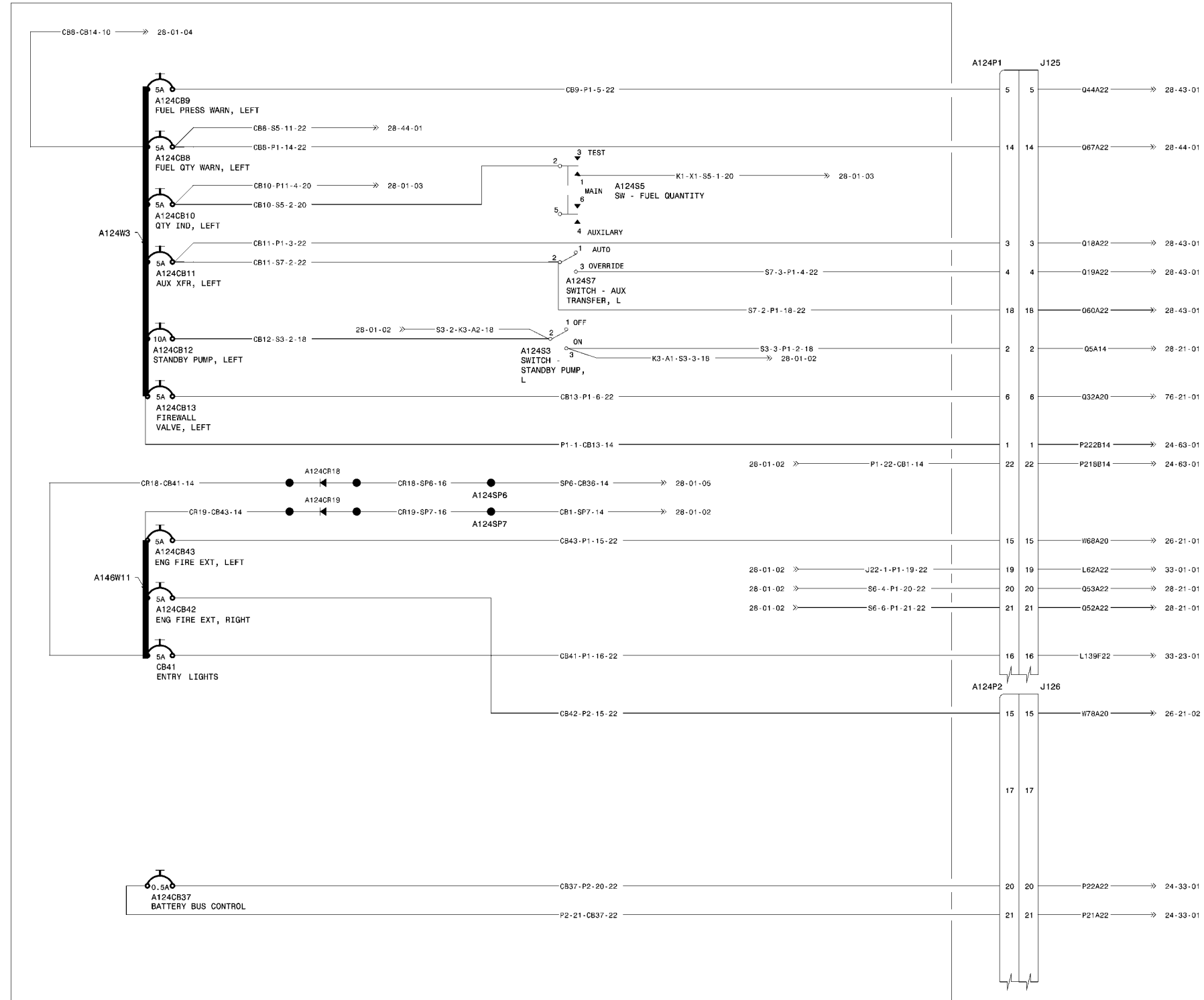
PANEL ASSEMBLY - FUEL CONTROL  
 Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG	REF	PART NUMBER	NOMENCLATURE	EFFECTIVITY	UNITS
DES		1 2 3 4 5 6 7		FROM TO	PER ASSY
02			PANEL ASSEMBLY - FUEL CONTROL	FL1234 FL1299 FL1301 FL1306 FM0098FM0109	
	A124CB10		. . CIRCUIT BREAKER QTY IND, L (ZONE 247) . . . . .		RF R
-	MS25036-102		. . TERMINAL RING TONGUE . . . . . V70898		01 R
	A124CB11		. . CIRCUIT BREAKER AUX XFR, L (ZONE 247) . . . . .		RF R
-	MS25036-102		. . TERMINAL RING TONGUE . . . . . V70898		01 R
	A124CB12		. . CIRCUIT BREAKER STANDBY PUMP, L (ZONE 247) . . . . .		RF R
-	MS25036-102		. . TERMINAL RING TONGUE . . . . . V70898		01 R
	A124CB13		. . CIRCUIT BREAKER FIREWALL VALVE, L (ZONE 247) . . . . .		RF R
-	MS25036-102		. . TERMINAL RING TONGUE . . . . . V70898		01 R
-	MS25036-107		. . TERMINAL RING TONGUE . . . . . V70898		01 R
	A124CB14		. . CIRCUIT BREAKER DCU1 SEC (ZONE 247) . . . . .		RF R
-	MS25036-102		. . TERMINAL RING TONGUE . . . . . V70898		01 R
-	MS25036-111		. . TERMINAL RING TONGUE . . . . . V70898		01 R
	A124CB37		. . CIRCUIT BREAKER BUS CONT (ZONE 247) . . . . .		RF R
-	MS25036-102		. . TERMINAL RING TONGUE . . . . . V70898		02 R
	A124CB41		. . CIRCUIT BREAKER CABIN ENTRY LIGHTS (ZONE 247) . . . . .		RF R
-	MS25036-102		. . TERMINAL RING TONGUE . . . . . V70898		01 R
-	MS25036-107		. . TERMINAL RING TONGUE . . . . . V70898		02 R
	A124CB42		. . CIRCUIT BREAKER FIRE EXT, R (ZONE 247) . . . . .		RF R
-	MS25036-102		. . TERMINAL RING TONGUE . . . . . V70898		01 R
	A124CB43		. . CIRCUIT BREAKER FIRE EXT, L (ZONE 247) . . . . .		RF R
-	MS20659-102		. . TERMINAL RING TONGUE . . . . . V70898		01 R
-	MS25036-107		. . TERMINAL RING TONGUE . . . . . V70898		01 R
	A124CB8		. . CIRCUIT BREAKER FUEL QTY WARN, L (ZONE 247) . . . . .		RF R
-	MS20659-111		. . TERMINAL RING TONGUE . . . . . V70898		01 R
-	MS25036-102		. . TERMINAL RING TONGUE . . . . . V70898		01 R
	A124CB9		. . CIRCUIT BREAKER FUEL PRESS WARN, L (ZONE 247) . . . . .		RF R
-	MS25036-102		. . TERMINAL RING TONGUE . . . . . V70898		01 R
	A124CR18		. . DIODE (ZONE 247) . . . . .		RF R
	A124CR19		. . DIODE (ZONE 247) . . . . .		RF R
	A124P1	206612-1	. . PLUG, 22 POSITION FUEL CONT PNL MAIN (ZONE 247) . . . . . V00779		01 R
-		131741-3	. . MARKER BAND . . . . . V70898		01 R
-		206138-1	. . BACKSHELL . . . . . V00779		01 R
-		52672	. . FIRE RESISTANT TAPE . . . . . V02988		01 R
-		66101-4	. . TERMINAL SOCKET CONTACT . . . . . V00779		01 R
-		66105-4	. . TERMINAL SOCKET CONTACT . . . . . V00779		17 R
-		66740-6	. . TERMINAL FEMALE CONTACT . . . . .		02 R
-		M83519/2-7	. . SHIELD TERMINATION . . . . . V81343		02 R
-		M83519/2-8	. . SHIELD TERMINATION . . . . . V81343		01 R
	A124P2	1-480351-0	. . RECEPTACLE, SINGLE CIRCUIT FUEL CONT PNL FWD (ZONE 247) . . . . . V00779		01 R
-		131741-3	. . MARKER BAND . . . . . V70898		01 R
-		193844-1	. . TERMINAL PIN CRIMP . . . . . V00779		01 R
-		206138-1	. . BACKSHELL . . . . . V00779		01 R
-		52672	. . FIRE RESISTANT TAPE . . . . . V02988		01 R
-		66099-4	. . TERMINAL PIN CONTACT . . . . . V00779		02 R
-		66103-4	. . TERMINAL PIN CONTACT . . . . . V00779		25 R
-		66361-4	. . TERMINAL PIN CRIMP . . . . .		01 R
-		M83519/2-7	. . SHIELD TERMINATION . . . . . V81343		02 R
-		M83519/2-8	. . SHIELD TERMINATION . . . . . V81343		02 R
	A124S3		. . SWITCH, TOGGLE ONE POLE STBY PUMP SEL, L (ZONE 247) . . . . .		RF R
-	MS25036-107		. . TERMINAL RING TONGUE . . . . . V70898		02 R
	A124S5		. . SWITCH, TOGGLE FOUR POLE FUEL QTY GAUGING (ZONE 247) . . . . .		RF R
-		106242C31	. . HEAT SHRINK TUBING . . . . . V70898		06 R
-	SOLDER		. . TERMINAL CONTACT . . . . .		06 R
	A124S7		. . SWITCH, TOGGLE ONE POLE AUX FUEL XFR SEL, L (ZONE 247) . . . . .		RF R
-	MS25036-102		. . TERMINAL RING TONGUE . . . . . V70898		02 R
	A124SP6	M81824/1-3	. . SPLICE (ZONE 247) . . . . . V81343		01 R
	A124SP7	M81824/1-3	. . SPLICE (ZONE 247) . . . . . V81343		01 R

- ITEM NOT ILLUSTRATED

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



♦ FOR CONTINUATION OF A124  
 PANEL ASSY SEE DIAGRAMS  
 28-01-02, 28-01-03, 28-01-04,  
 28-01-05 AND 28-44-01

A124 PANEL ASSEMBLY - FUEL CONTROL ♦

NOTE: 1/2 AMP DEPICTED AS .5A

434-360034\_14\_70

PANEL ASSEMBLY - FUEL CONTROL  
 Figure 02 (Sheet 1)

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**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
			1	2	3
J125	206613-1	. RECEPTACLE, 22 POSITION FUEL CONT PNL NO. 1 (ZONE 247)	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	206138-8	. . BACKSHELL	V06090		01 R
-	206403-3	. . PERIPHERAL CPC SEAL	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66099-4	. . TERMINAL PIN CONTACT	V00779		02 R
-	66103-4	. . TERMINAL PIN CONTACT	V00779		16 R
-	66261-2	. . TERMINAL PIN CONTACT			02 R
-	66361-4	. . TERMINAL PIN CRIMP			01 R
-	M83519/2-7	. . SHIELD TERMINATION	V81343		03 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		02 R
J126	206306-2	. RECEPTACLE, 23-37S FUEL CONT PNL NO. 2 (ZONE 281)	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	193846-1	. . TERMINAL SOCKET CONTACT	V00779		01 R
-	206138-8	. . BACKSHELL	V06090		01 R
-	206403-3	. . PERIPHERAL CPC SEAL	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT	V00779		03 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		23 R
-	66360-4	. . TERMINAL SOCKET CONTACT	V00779		02 R
-	M83519/2-7	. . SHIELD TERMINATION	V81343		03 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		03 R

- ITEM NOT ILLUSTRATED

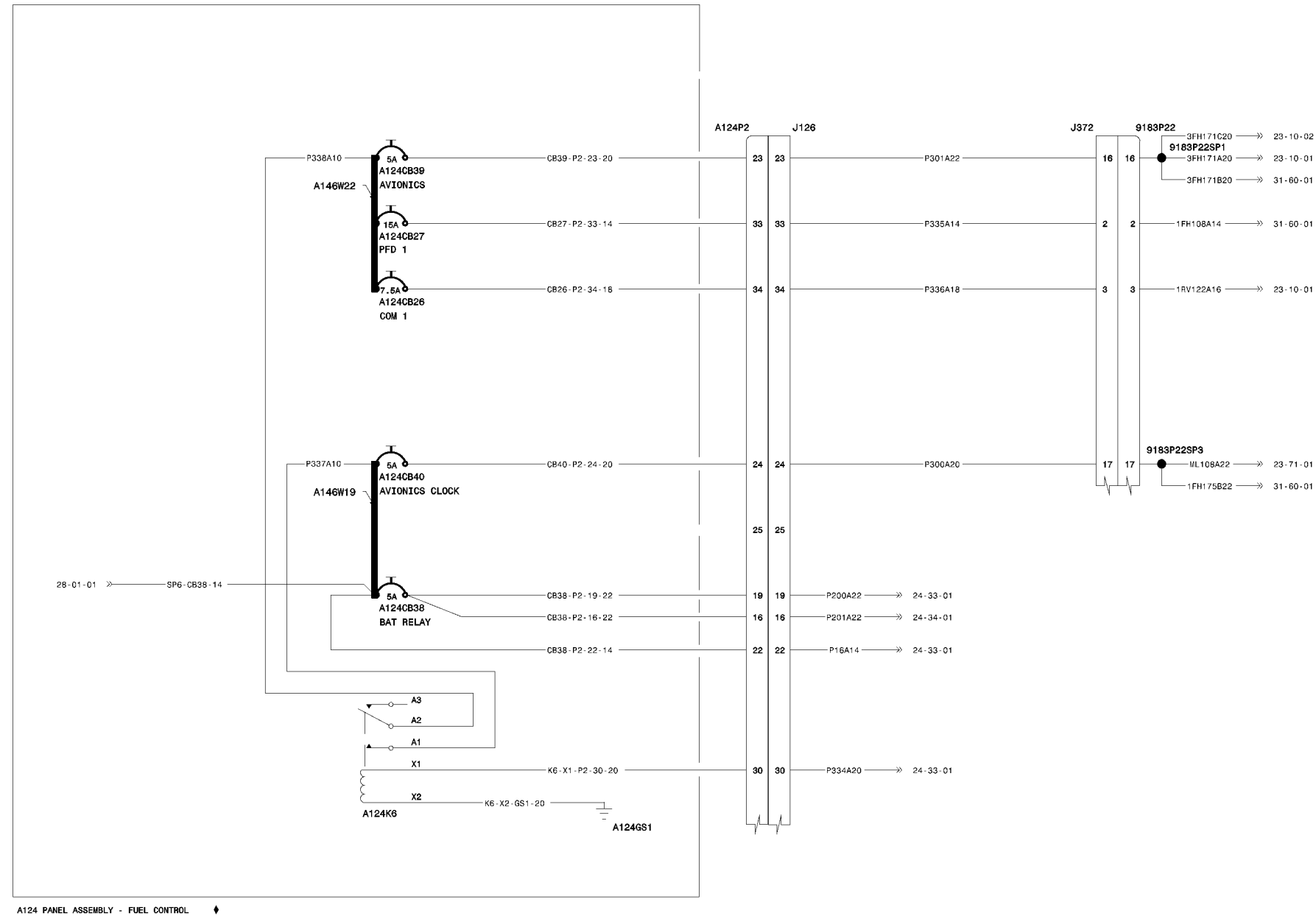
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**28-01-01**

Figure 02  
 Page 3  
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BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



♦ FOR CONTINUATION OF A124 PANEL  
 ASSY SEE DIAGRAMS 28-01-01,  
 28-01-02, 28-01-03, 28-01-04 AND  
 28-44-01

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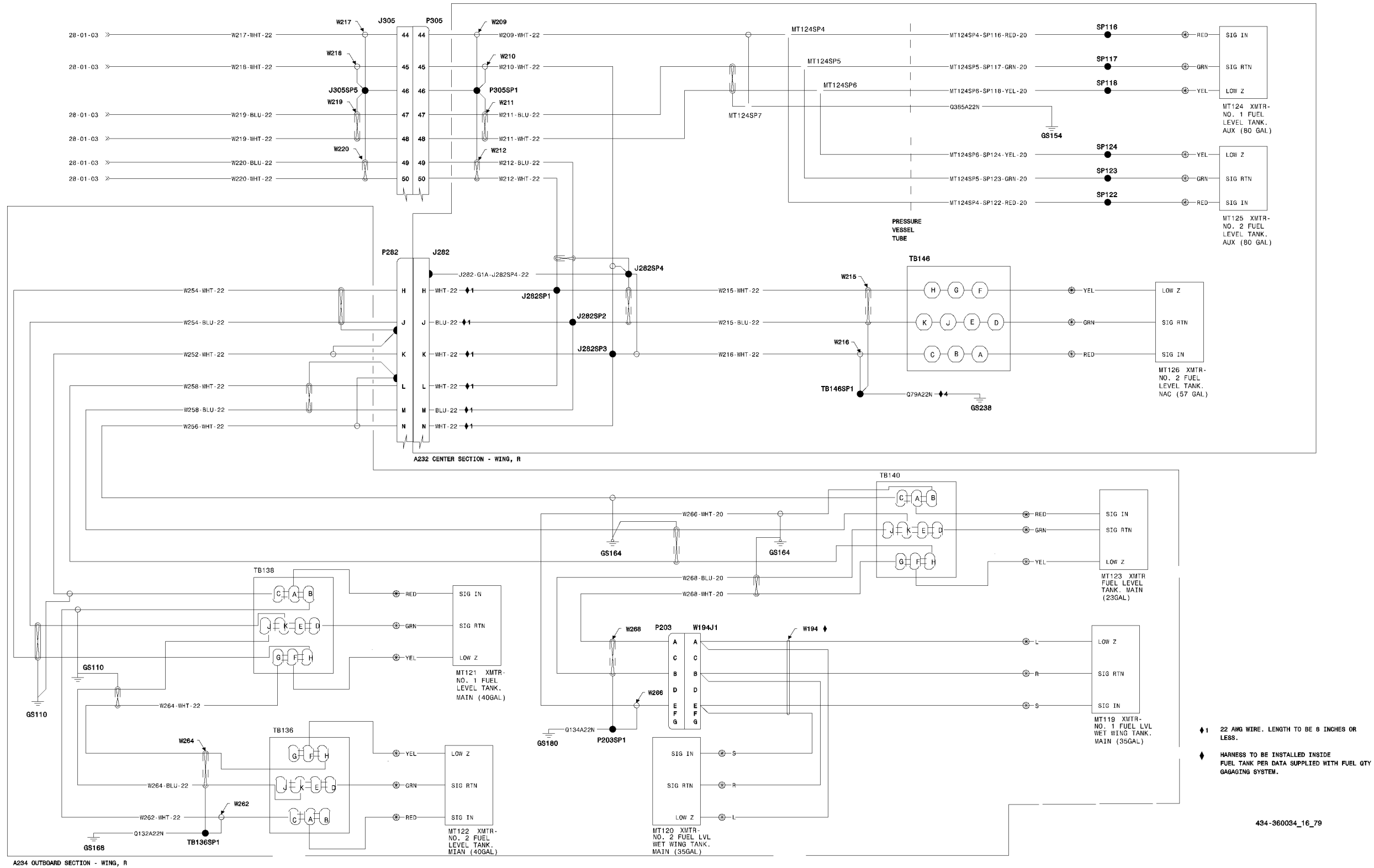
PANEL ASSEMBLY - FUEL CONTROL  
 Figure 02 (Sheet 1)



BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
02		PANEL ASSEMBLY - FUEL CONTROL	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
	9183P22 SP1	D-436-52 . . . . . SPLICE . . . . .	V06090		01 R
	9183P22 SP3	M81824/1-2 . . . . . SPLICE . . . . .	V81343		01 R
	A124CB26	. . . . . CIRCUIT BREAKER COM NO. 1 (ZONE 247) . . . . .			RF R
-	MS25036-102	. . . . . TERMINAL RING TONGUE . . . . .	V70898		01 R
	A124CB27	. . . . . CIRCUIT BREAKER PFD NO. 1 (ZONE 247) . . . . .			RF R
-	MS25036-107	. . . . . TERMINAL RING TONGUE . . . . .	V70898		01 R
	A124CB38	. . . . . CIRCUIT BREAKER BATT RELAY (ZONE 247) . . . . .			RF R
-	MS25036-102	. . . . . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS25036-107	. . . . . TERMINAL RING TONGUE . . . . .	V70898		01 R
	A124CB39	. . . . . CIRCUIT BREAKER AVIONICS (ZONE 247) . . . . .			RF R
-	MS25036-102	. . . . . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS25036-111	. . . . . TERMINAL RING TONGUE . . . . .	V70898		01 R
	A124CB40	. . . . . CIRCUIT BREAKER AVIONICS CLOCK (ZONE 247) . . . . .			RF R
-	MS25036-102	. . . . . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS25036-111	. . . . . TERMINAL RING TONGUE . . . . .	V70898		01 R
	A124GS1	. . . . . GROUND STUD FUEL CONT (ZONE 247) . . . . .			RF R
-	MS25036-103	. . . . . TERMINAL RING TONGUE . . . . .	V70898		02 R
	A124K6	M83536/37-005L . . . . . RELAY (5 AMP) SPDT (ZONE 247) . . . . .	V81349		01 R
-	106242C43	. . . . . HEATSHRINK . . . . .	V70898		04 R
-	SOLDER	. . . . . TERMINAL CONTACT . . . . .			04 R
	A124P2	1-480351-0 . . . . . RECEPTACLE, SINGLE CIRCUIT FUEL CONT PNL FWD (ZONE 247) . . . . .	V00779		01 R
-	131741-3	. . . . . MARKER BAND . . . . .	V70898		01 R
-	193844-1	. . . . . TERMINAL PIN CRIMP . . . . .	V00779		01 R
-	206138-1	. . . . . BACKSHELL . . . . .	V00779		01 R
-	52672	. . . . . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66099-4	. . . . . TERMINAL PIN CONTACT . . . . .	V00779		02 R
-	66103-4	. . . . . TERMINAL PIN CONTACT . . . . .	V00779		25 R
-	66361-4	. . . . . TERMINAL PIN CRIMP . . . . .			01 R
-	M83519/2-7	. . . . . SHIELD TERMINATION . . . . .	V81343		02 R
-	M83519/2-8	. . . . . SHIELD TERMINATION . . . . .	V81343		02 R
J126	206306-2	. . . . . RECEPTACLE, 23-37S FUEL CONT PNL NO. 2 (ZONE 281) . . . . .	V00779		01 R
-	131741-3	. . . . . MARKER BAND . . . . .	V70898		01 R
-	193846-1	. . . . . TERMINAL SOCKET CONTACT . . . . .	V00779		01 R
-	206138-8	. . . . . BACKSHELL . . . . .	V06090		01 R
-	206403-3	. . . . . PERIPHERAL CPC SEAL . . . . .	V06090		01 R
-	52672	. . . . . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66101-4	. . . . . TERMINAL SOCKET CONTACT . . . . .	V00779		03 R
-	66105-4	. . . . . TERMINAL SOCKET CONTACT . . . . .	V00779		23 R
-	66360-4	. . . . . TERMINAL SOCKET CONTACT . . . . .	V00779		02 R
-	M83519/2-7	. . . . . SHIELD TERMINATION . . . . .	V81343		03 R
-	M83519/2-8	. . . . . SHIELD TERMINATION . . . . .	V81343		03 R
J372	206306-2	. . . . . RECEPTACLE, 23-37S AVIONICS DISC (ZONE 249/232) . . . . .	V00779		01 R
-	131741-3	. . . . . MARKER BAND . . . . .	V70898		01 R
-	193846-1	. . . . . SOCKET . . . . .	V00779		01 R
-	206138-8	. . . . . BACKSHELL . . . . .	V06090		01 R
-	52672	. . . . . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66101-4	. . . . . TERMINAL SOCKET CONTACT . . . . .	V00779		01 R
-	66105-4	. . . . . TERMINAL SOCKET CONTACT . . . . .	V00779		AR R
-	66360-4	. . . . . TERMINAL SOCKET CONTACT . . . . .	V00779	FL1234 FL9999	01
-	MS25036-102	. . . . . TERMINAL RING TONGUE . . . . .	V70898	FL1234 FL9999	01
-	M83519/2-8	. . . . . SHIELD TERMINATION . . . . .	V81343	FL1234 FL9999	01 R
				FM0098FM9999	

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**



◆ 22 AWG WIRE. LENGTH TO BE 8 INCHES OR LESS.  
 ◆ HARNESS TO BE INSTALLED INSIDE FUEL TANK PER DATA SUPPLIED WITH FUEL QTY GAGAGING SYSTEM.

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RIGHT FUEL QUANTITY  
 Figure 02 (Sheet 1)

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**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
02		RIGHT FUEL QUANTITY	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
GS110		. GROUND STUD RWS 147.00 MAIN SPAR FWD (ZONE 631) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-149	. . TERMINAL RING TONGUE . . . . .	V96906		01 R
GS154		. GROUND STUD CENTER SECTION WING, R (ZONE 612) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-103	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
GS164		. GROUND STUD RWS 130.00 MAIN SPAR AFT (ZONE 632) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-149	. . TERMINAL RING TONGUE . . . . .	V96906		01 R
GS168		. GROUND STUD RWS 204.00 FRONT SPAR FWD (ZONE 641) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-149	. . TERMINAL RING TONGUE . . . . .	V96906		01 R
GS180		. GROUND STUD RWS 223.00. MAIN SPAR AFT (ZONE 642) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-103	. . TERMINAL RING TONGUE . . . . .	V96906		01 R
GS238		. GROUND STUD CENTER SECTION WING, R (ZONE 162) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-103	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
J282	MS3470L14-15S	. RECEPTACLE WINDOW BREAK, R (ZONE 611) . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT . . . . .	V81349		14 R
-	M39029/5-116	. . TERMINAL SOCKET CONTACT . . . . .	V81349		01 R
-	M85049/52-1-14N	. . BACKSHELL . . . . .	V81349		01 R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS27488-16	. . SEALING PLUG . . . . .	V96906		01 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		05 R
J282SP1	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
J282SP2	M81824/1-2	. SPLICE . . . . .	V81343		01 R
J282SP3	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	M83519/2-7	. . SHIELD TERMINATION . . . . .	V81343		02 R
J282SP4	D-436-61	. SPLICE . . . . .	V06090		01 R
J305	205843-2	. RECEPTACLE CROSSOVER FWD (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	205089-1	. . TERMINAL PIN CONTACT . . . . .	V06090		50 R
-	206138-8	. . BACKSHELL CROSSOVER FWD . . . . .	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M83519/2-7	. . SHIELD TERMINATION . . . . .	V81343		02 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
J305SP5	D-436-61	. SPLICE . . . . .	V06090		01 R
MT124 SP4	M81714/12-20D-1	. TERMINAL JUNCTION IN-LINE DOUBLE . . . . .	V81349		01 R
-	M39029/1-101	. . TERMINAL PIN CONTACT . . . . .	V81349		03 R
-	M83519/2-7	. . SHIELD TERMINATION . . . . .	V81343		01 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		01 R
MT124 SP5	M81714/12-20D-1	. TERMINAL JUNCTION IN-LINE DOUBLE . . . . .	V81349		01 R
-	M39029/1-101	. . TERMINAL PIN CONTACT . . . . .	V81349		03 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		01 R
MT124 SP6	M81714/12-20D-1	. TERMINAL JUNCTION IN-LINE DOUBLE . . . . .	V81349		01 R
-	M39029/1-101	. . TERMINAL PIN CONTACT . . . . .	V81349		03 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		01 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		01 R
MT124 SP7	M81714/12-20D-1	. TERMINAL JUNCTION IN-LINE DOUBLE . . . . .	V81349		01 R
-	M39029/1-101	. . TERMINAL PIN CONTACT . . . . .	V81349		03 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		01 R

- ITEM NOT ILLUSTRATED

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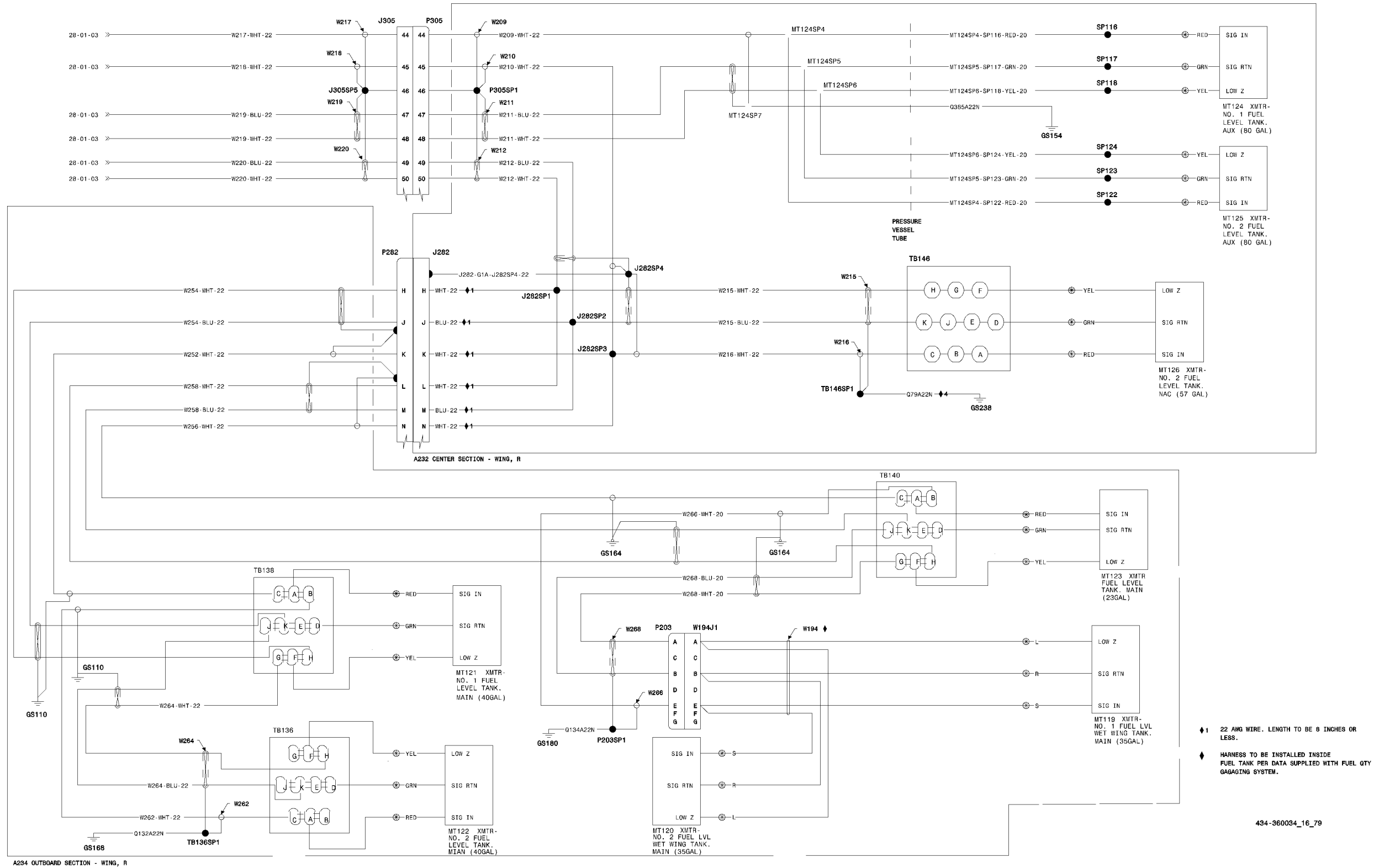
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Figure 02

Page 1

**28-41-02** Dec 02/2022

**BEECHCRAFT®  
MODEL B300/B300C FUSION  
WIRING DIAGRAM MANUAL**



◆ 22 AWG WIRE. LENGTH TO BE 8 INCHES OR LESS.  
◆ HARNESS TO BE INSTALLED INSIDE FUEL TANK PER DATA SUPPLIED WITH FUEL QTY GAGAGING SYSTEM.

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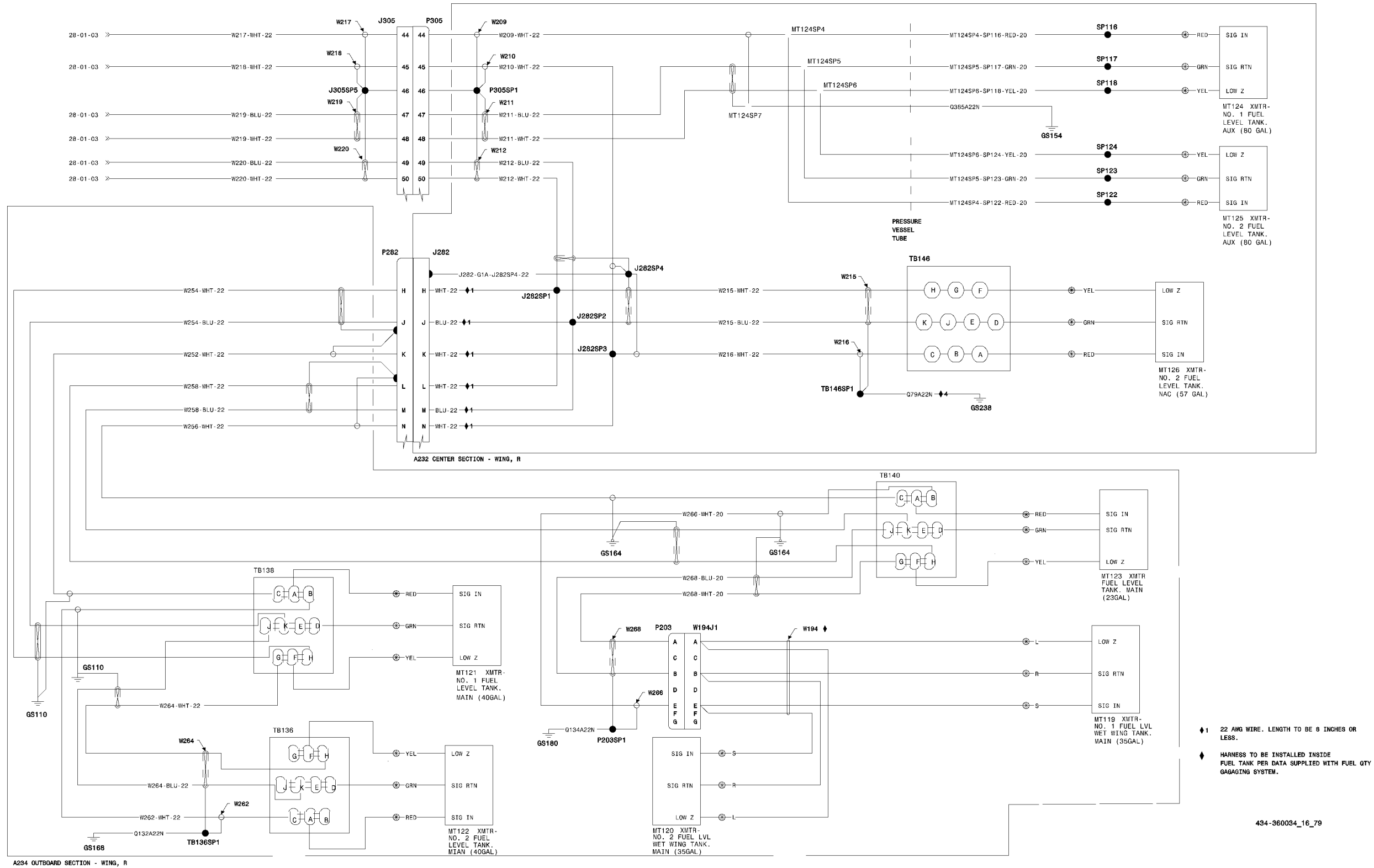
RIGHT FUEL QUANTITY  
Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
P203	MS3456L16S-1S	. PLUG WET WING DISC, R (ZONE 642) . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	131823HT8LH1120	. . TUBE PLASTIC . . . . .	V70898		01 R
-	M39029/30-217	. . TERMINAL SOCKET CONTACT . . . . .	V81349		07 R
-	M83519/2-7	. . SHIELD TERMINATION . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		01 R
-	M85049/52-1-16N	. . BACKSHELL . . . . .	V81349		01 R
-	MS27488-16	. . SEALING PLUG . . . . .	V96906		04 R
-	MS3420-10D	. . BUSHING . . . . .	V96906		01 R
-	MS3420-4D	. . BUSHING . . . . .	V96906		01 R
-	MS3420-6D	. . BUSHING . . . . .	V96906		01 R
P203SP1	M81824/1-2	. SPLICE . . . . .	V81343		RF R
P282	MS3476L14-15P	. PLUG WING BREAK, R (ZONE 612) . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT . . . . .	V81349		14 R
-	M39029/4-111	. . TERMINAL PIN CONTACT . . . . .	V81349		01 R
-	M83519/2-7	. . SHIELD TERMINATION . . . . .	V81343		02 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
-	M85049/52-1-14N	. . BACKSHELL . . . . .	V81349		01 R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V96906		02 R
-	MS27488-16	. . SEALING PLUG . . . . .	V96906		01 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		05 R
P305	205842-1	. PLUG CROSSOVER FWD (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	205090-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779		49 R
-	206138-8	. . BACKSHELL . . . . .	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M83519/2-7	. . SHIELD TERMINATION . . . . .	V81343		02 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
P305SP1	D-436-61	. SPLICE . . . . .	V06090		01 R
SP116		. TERMINAL JUNCTION BLOCK (ZONE 612) . . . . .			RF R
-	M39029/1-101	. . TERMINAL PIN CONTACT . . . . .	V81349		01 R
SP117		. TERMINAL JUNCTION BLOCK (ZONE 612) . . . . .			RF R
-	M39029/1-101	. . TERMINAL PIN CONTACT . . . . .	V81349		01 R
SP118		. TERMINAL JUNCTION BLOCK (ZONE 612) . . . . .			RF R
-	M39029/1-101	. . TERMINAL PIN CONTACT . . . . .	V81349		01 R
SP122		. TERMINAL JUNCTION BLOCK (ZONE 612) . . . . .			RF R
-	M39029/1-101	. . TERMINAL PIN CONTACT . . . . .	V81349		01 R
SP123		. TERMINAL JUNCTION BLOCK (ZONE 612) . . . . .			RF R
-	M39029/1-101	. . TERMINAL PIN CONTACT . . . . .	V81349		01 R
SP124		. TERMINAL JUNCTION BLOCK (ZONE 612) . . . . .			RF R
-	M39029/1-101	. . TERMINAL PIN CONTACT . . . . .	V81349		01 R
TB136	M81714/2-BC1	. TERMINAL JUNCTION BLOCK FUEL QTY (ZONE 641) . . . . .	V81349		01 R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	131823HT6LH0500	. . TUBE PLASTIC . . . . .	V70898		01 R
-	M39029/1-101	. . TERMINAL PIN CONTACT . . . . .	V81349		03 R
-	M83519/2-7	. . SHIELD TERMINATION . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		01 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		04 R
TB136SP1	M81824/1-2	. SPLICE . . . . .	V81343		01 R
TB138	M81714/2-BC1	. TERMINAL JUNCTION BLOCK FUEL QTY (ZONE 631) . . . . .	V81349		01 R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	M39029/1-101	. . TERMINAL PIN CONTACT . . . . .	V81349		03 R
-	M83519/2-7	. . SHIELD TERMINATION . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		01 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		01 R
TB140	M81714/2-BC1	. TERMINAL JUNCTION BLOCK FUEL QTY (ZONE 632) . . . . .	V81349		01 R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	M39029/1-101	. . TERMINAL PIN CONTACT . . . . .	V81349		03 R
-	M83519/2-7	. . SHIELD TERMINATION . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		01 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		01 R

- ITEM NOT ILLUSTRATED

**BEECHCRAFT®  
MODEL B300/B300C FUSION  
WIRING DIAGRAM MANUAL**



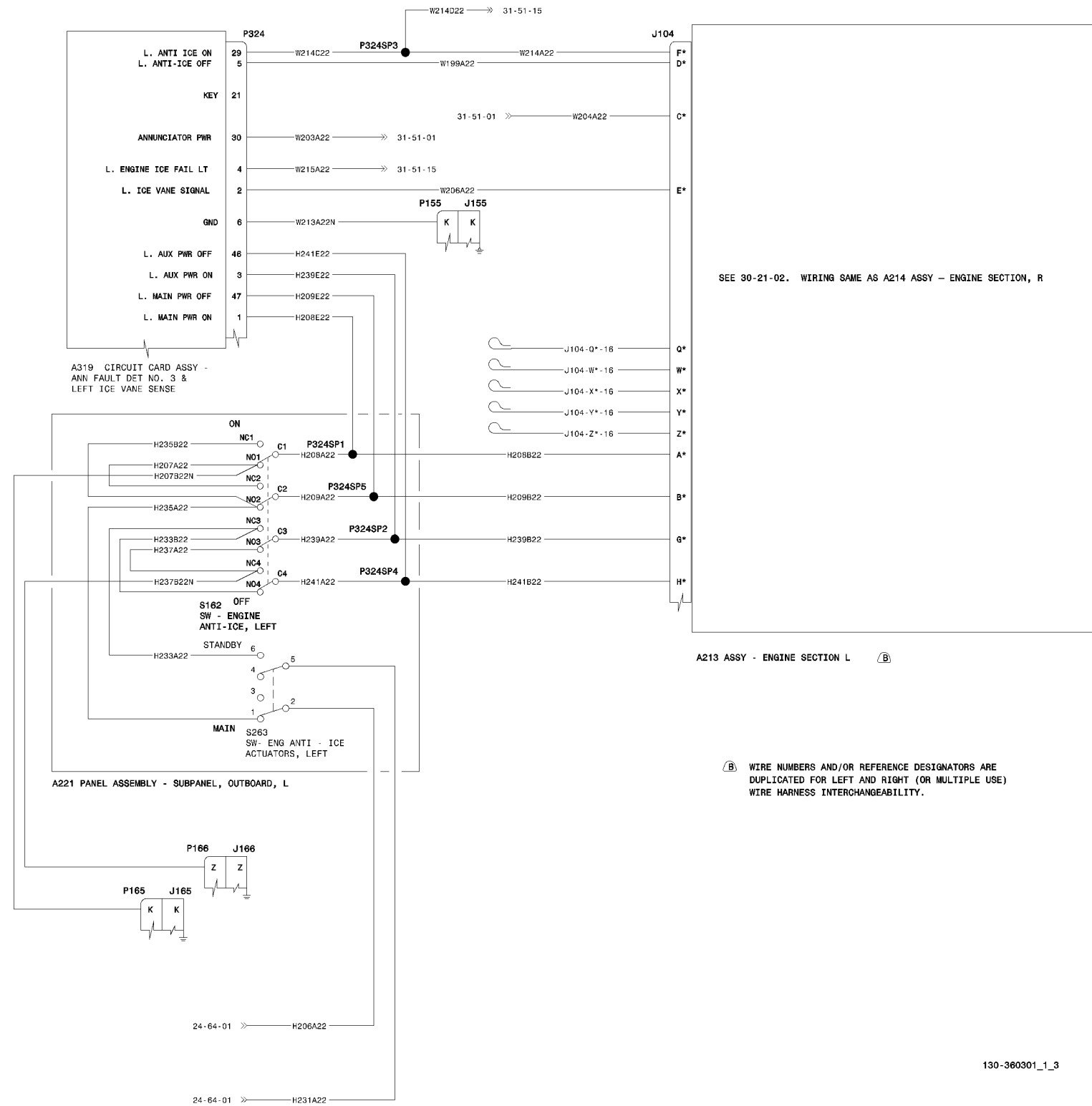
◆ 22 AWG WIRE. LENGTH TO BE 8 INCHES OR LESS.  
◆ HARNESS TO BE INSTALLED INSIDE FUEL TANK PER DATA SUPPLIED WITH FUEL QTY GAGAGING SYSTEM.

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BEECHCRAFT®  
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 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
			1	2	3
			4	5	6
			7		
TB146	M81714/2-DC1	. TERMINAL JUNCTION BLOCK (ZONE 621) . . . . .	V81349		01 R
-	131741-1	. . MARKER BAND	V70898		01 R
-	M39029/1-101	. . TERMINAL PIN CONTACT	V81349		03 R
-	M83519/2-7	. . SHIELD TERMINATION	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		01 R
TB146SP1	M81824/1-2	. SPLICE . . . . .	V81343		01 R

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



LEFT ENGINE ANTI-ICE  
 Figure 03 (Sheet 1)



BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
03		LEFT ENGINE ANTI-ICE		FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	
J104	MS3450KT36-7S	. RECEPTACLE NO. 2 FIREWALL, L (ZONE 521) . . . . .	V96906	FL0954 FL0954 FL1010 FL1010 FL1031 FL1299 FL1301 FL1306 FM0066 FM0109	01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	310-1620-091	. . TERMINAL SOCKET CONTACT			32 R
-	350AS001N36-3	. . BACKSHELL			01 R
-	D-436-0097	. . SEALING SLEEVE	V06090		01 R
-	D-436-0098	. . SEALING SLEEVE	V06090		02 R
-	L144	. . FIBERFRAX TAPE			01 R
-	M39029/30-218	. . TERMINAL SOCKET CONTACT	V81349		06 R
-	M39029/30-219	. . TERMINAL SOCKET CONTACT	V81349		07 R
-	M39029/86-463	. . TERMINAL SOCKET CONTACT ALUMEL	V81349		01 R
-	M39029/86-464	. . TERMINAL SOCKET CONTACT CHROMEL	V81349		01 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		07 R
J104- SPARE-1		. SPARE WIRE CAP . . . . .			RF R
-	PD CAP 3/16-0	. . DUAL WALL INSULATING CAP	V06090		02 R
J104- SPARE-2		. SPARE WIRE CAP . . . . .			RF R
-	PD CAP 1/4-0	. . DUAL WALL INSULATING CAP	V06090		07 R
P155	200838-3	. RECEPTACLE, 34 POSITION RELAY GND, L (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	201224-1	. . BACKSHELL	V00779		01 R
-	203618-1	. . JACKSCREW	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		25 R
P165	200838-3	. RECEPTACLE, 34 POSITION SUBPANEL GND, L (ZONE 231) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	201224-1	. . BACKSHELL	V00779		01 R
-	203618-1	. . JACKSCREW	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		15 R
P166	200838-3	. RECEPTACLE, 34 POSITION SUBPANEL GND, R (ZONE 232) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	201224-1	. . BACKSHELL	V00779		01 R
-	203618-1	. . JACKSCREW	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT	V00779		22 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		02 R
P324	3-582307-1	. RECEPTACLE ANNUN FAULT DET NO. 3 & L ICE VANE (ZONE 143) . . . . .			01 R
-	101-364221-97	. . DECAL INDENT ELECTRONIC MODULES			01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	1-582156-9	. . KEYING CONTACT	V00779		01 R
-	66010-2	. . TERMINAL CONTACT	V00779		16 R
-	66026-2	. . TERMINAL CONTACT	V00779		02 R
P324SP1	M81824/1-2	. SPLICE . . . . .	V81343		01 R
P324SP2	M81824/1-2	. SPLICE . . . . .	V81343		01 R
P324SP3	M81824/1-2	. SPLICE . . . . .	V81343		01 R
P324SP4	M81824/1-2	. SPLICE . . . . .	V81343		01 R
P324SP5	M81824/1-2	. SPLICE . . . . .	V81343		01 R
S162		. SWITCH, TOGGLE SPDT (4) ENG ANTI-ICE CONTROL, L (ZONE 245) . . . . .			RF R
-	MS25036-102	. . TERMINAL RING TONGUE	V70898		12 R
S263		. SWITCH, TOGGLE TWO POLE ENG ANTI-ICE PWR SEL, L (ZONE 245) . . . . .			RF R
-	MS25036-102	. . TERMINAL RING TONGUE	V70898		04 R

- ITEM NOT ILLUSTRATED

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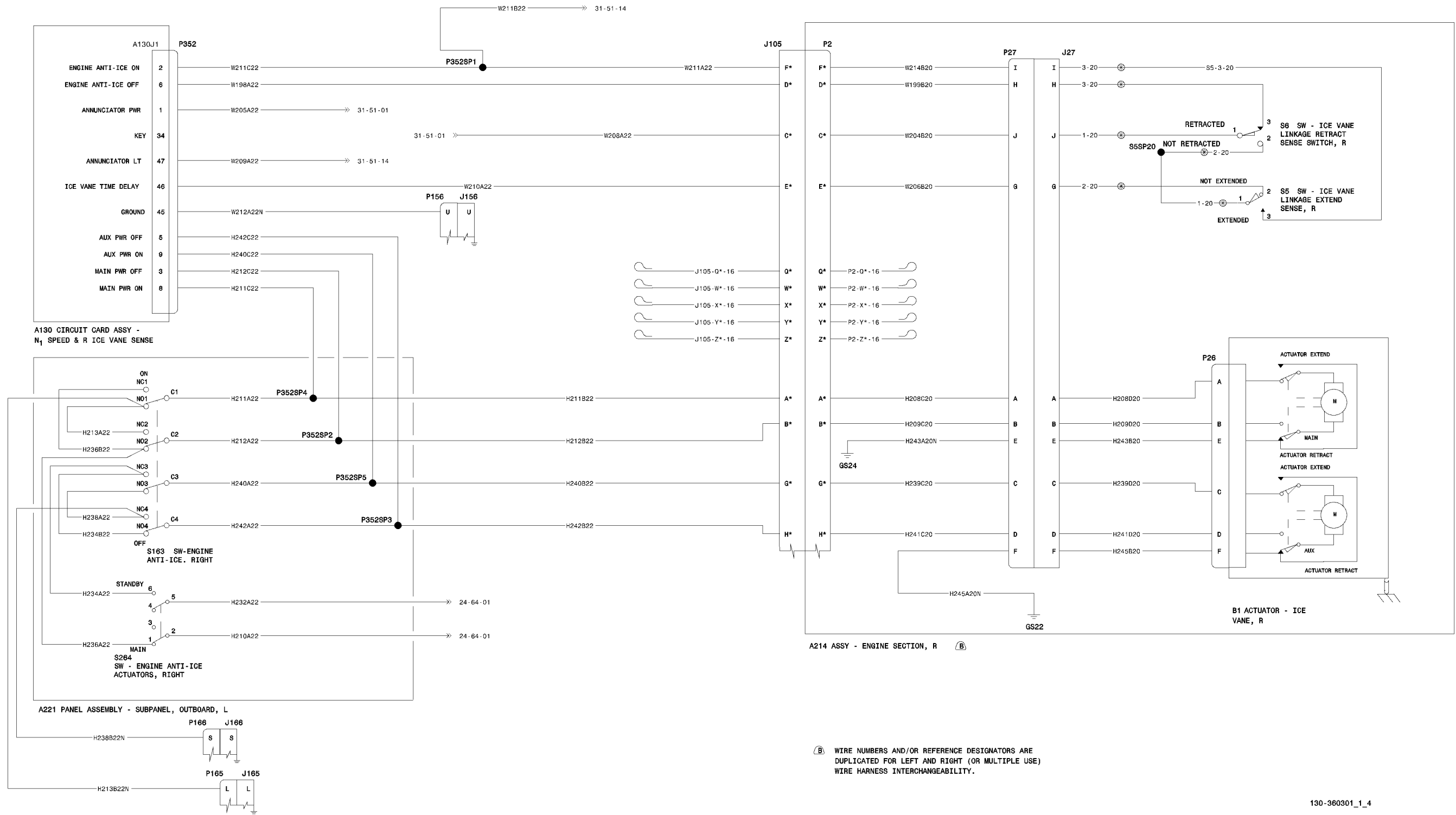
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Figure 03

Page 1

**30-21-01** Dec 02/2022

**BEECHCRAFT®  
MODEL B300/B300C FUSION  
WIRING DIAGRAM MANUAL**



(B) WIRE NUMBERS AND/OR REFERENCE DESIGNATORS ARE DUPLICATED FOR LEFT AND RIGHT (OR MULTIPLE USE) WIRE HARNESS INTERCHANGEABILITY.

130-360301\_1\_4

RIGHT ENGINE ANTI-ICE  
Figure 03 (Sheet 1)

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
03		RIGHT ENGINE ANTI-ICE	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
GS22		. . GROUND STUD (ZONE 410) . . . . .			RF R
-	MS25036-103	. . TERMINAL RING TONGUE . . . . . V70898			03 R
GS24		. . GROUND STUD . . . . .			RF R
-	MS25036-103	. . TERMINAL RING TONGUE . . . . . V70898			02 R
J105	MS3450KT36-7S	. . RECEPTACLE NO. 2 FIREWALL, R (ZONE 621) . . . . . V96906	FL0954	FL0954	01 R
			FL1010	FL1010	
			FL1031	FL1299	
			FL1301	FL1306	
			FM0066	FM0109	
-	310-1620-091	. . TERMINAL SOCKET CONTACT			32 R
-	350AS001N36-3	. . BACKSHELL			01 R
-	D-436-0097	. . SEALING SLEEVE . . . . . V06090			01 R
-	D-436-0098	. . SEALING SLEEVE . . . . . V06090			02 R
-	L144	. . FIBERFRAX TAPE			01 R
-	M39029/30-218	. . TERMINAL SOCKET CONTACT . . . . . V81349			06 R
-	M39029/30-219	. . TERMINAL SOCKET CONTACT . . . . . V81349			07 R
-	M39029/86-463	. . TERMINAL SOCKET CONTACT ALUMEL . . . . . V81349			01 R
-	M39029/86-464	. . TERMINAL SOCKET CONTACT CHROMEL . . . . . V81349			01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . . V81343			07 R
J105- SPARE-1		. . SPARE WIRE CAP . . . . .			RF R
-	PD CAP 1/4-0	. . DUAL WALL INSULATING CAP . . . . . V06090			07 R
J105- SPARE-2		. . SPARE WIRE CAP . . . . .			RF R
-	PD CAP 3/16-0	. . DUAL WALL INSULATING CAP . . . . . V06090			02 R
J27	MS3450KT18-1S	. . RECEPTACLE ANTI-ICE DISC (ZONE 427) . . . . . V96906			01 R
-	131287-1	. . LABEL STOCK			01 R
-	52672	. . FIRE RESISTANT TAPE . . . . . V02988			01 R
-	M39029/30-218	. . TERMINAL SOCKET CONTACT . . . . . V81349			10 R
-	M85049/52-1-18W	. . BACKSHELL . . . . . V81349			01 R
P156	200838-3	. . RECEPTACLE, 34 POSITION RELAY GND, R (ZONE 143) . . . . . V00779			01 R
-	131741-3	. . MARKER BAND . . . . . V70898			01 R
-	201224-1	. . BACKSHELL . . . . . V00779			01 R
-	203618-1	. . JACKSCREW . . . . . V00779			02 R
-	52672	. . FIRE RESISTANT TAPE . . . . . V02988			01 R
-	66101-4	. . TERMINAL SOCKET CONTACT . . . . . V00779			02 R
-	66105-4	. . TERMINAL SOCKET CONTACT . . . . . V00779			27 R
P165	200838-3	. . RECEPTACLE, 34 POSITION SUBPANEL GND, L (ZONE 231) . . . . . V00779			01 R
-	131741-3	. . MARKER BAND . . . . . V70898			01 R
-	201224-1	. . BACKSHELL . . . . . V00779			01 R
-	203618-1	. . JACKSCREW . . . . . V00779			02 R
-	52672	. . FIRE RESISTANT TAPE . . . . . V02988			01 R
-	66105-4	. . TERMINAL SOCKET CONTACT . . . . . V00779			15 R
P166	200838-3	. . RECEPTACLE, 34 POSITION SUBPANEL GND, R (ZONE 232) . . . . . V00779			01 R
-	131741-3	. . MARKER BAND . . . . . V70898			01 R
-	201224-1	. . BACKSHELL . . . . . V00779			01 R
-	203618-1	. . JACKSCREW . . . . . V00779			02 R
-	52672	. . FIRE RESISTANT TAPE . . . . . V02988			01 R
-	66101-4	. . TERMINAL SOCKET CONTACT . . . . . V00779			22 R
-	66105-4	. . TERMINAL SOCKET CONTACT . . . . . V00779			02 R
P26	MS3476L10-6S	. . PLUG ANTI-ICE ACTR (ZONE 410/420) . . . . . V96906			01 R
-	131287-1	. . LABEL STOCK			01 R
-	52672	. . FIRE RESISTANT TAPE . . . . . V02988			01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT . . . . . V81349			06 R
-	M85049/51-1-10N	. . BACKSHELL . . . . . V81349			01 R
P27	MS3456KT18-1P	. . PLUG ANTI-ICE (ZONE 410/420) . . . . . V96906			01 R
-	131287-1	. . LABEL STOCK			01 R
-	52672	. . FIRE RESISTANT TAPE . . . . . V02988			01 R
-	M39029/29-212	. . TERMINAL PIN CONTACT . . . . . V81349			10 R
-	M85049/52-1-18N	. . BACKSHELL . . . . . V81349			01 R

- ITEM NOT ILLUSTRATED

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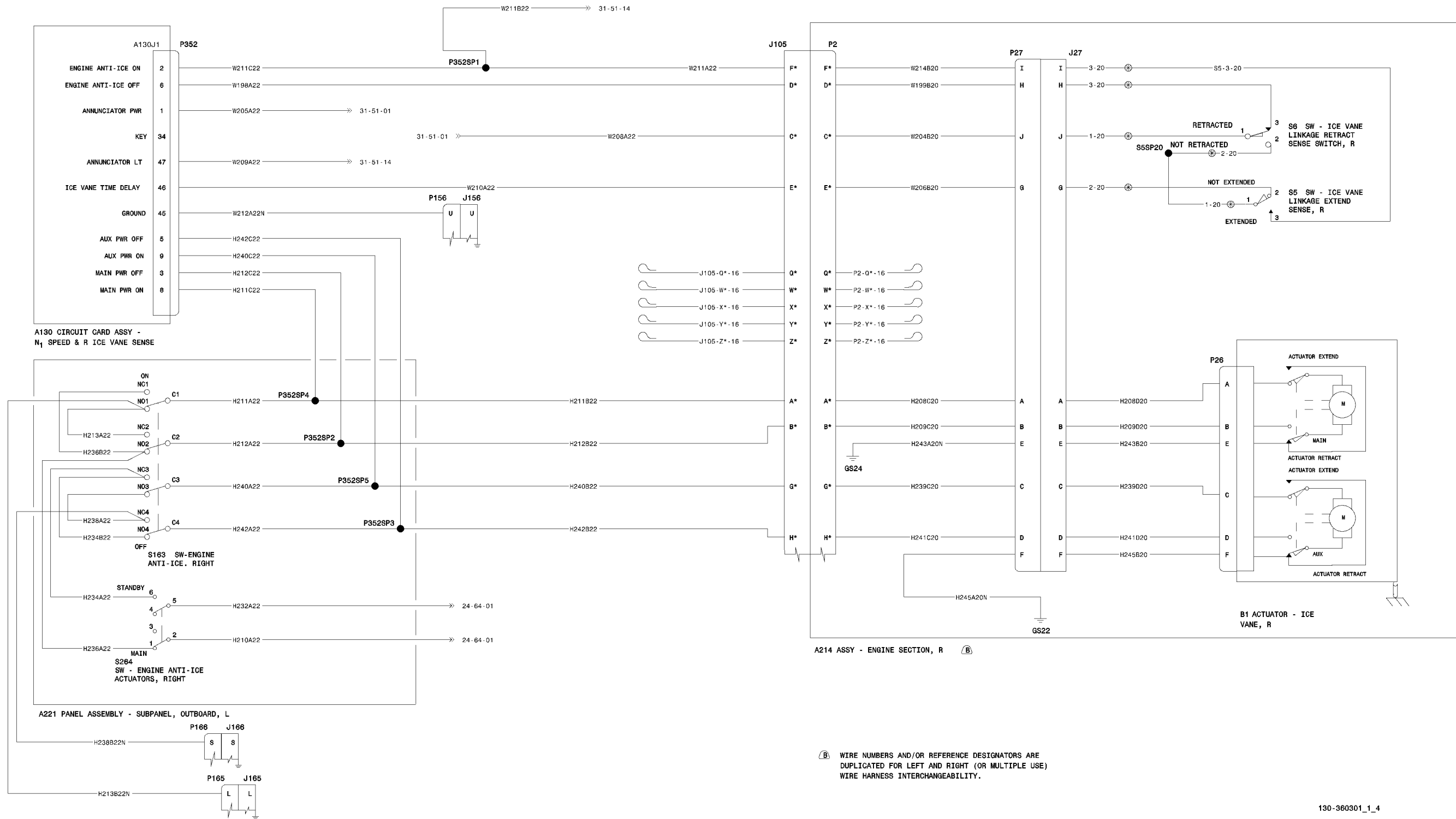
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Figure 03

Page 1

**30-21-02** Dec 02/2022

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**



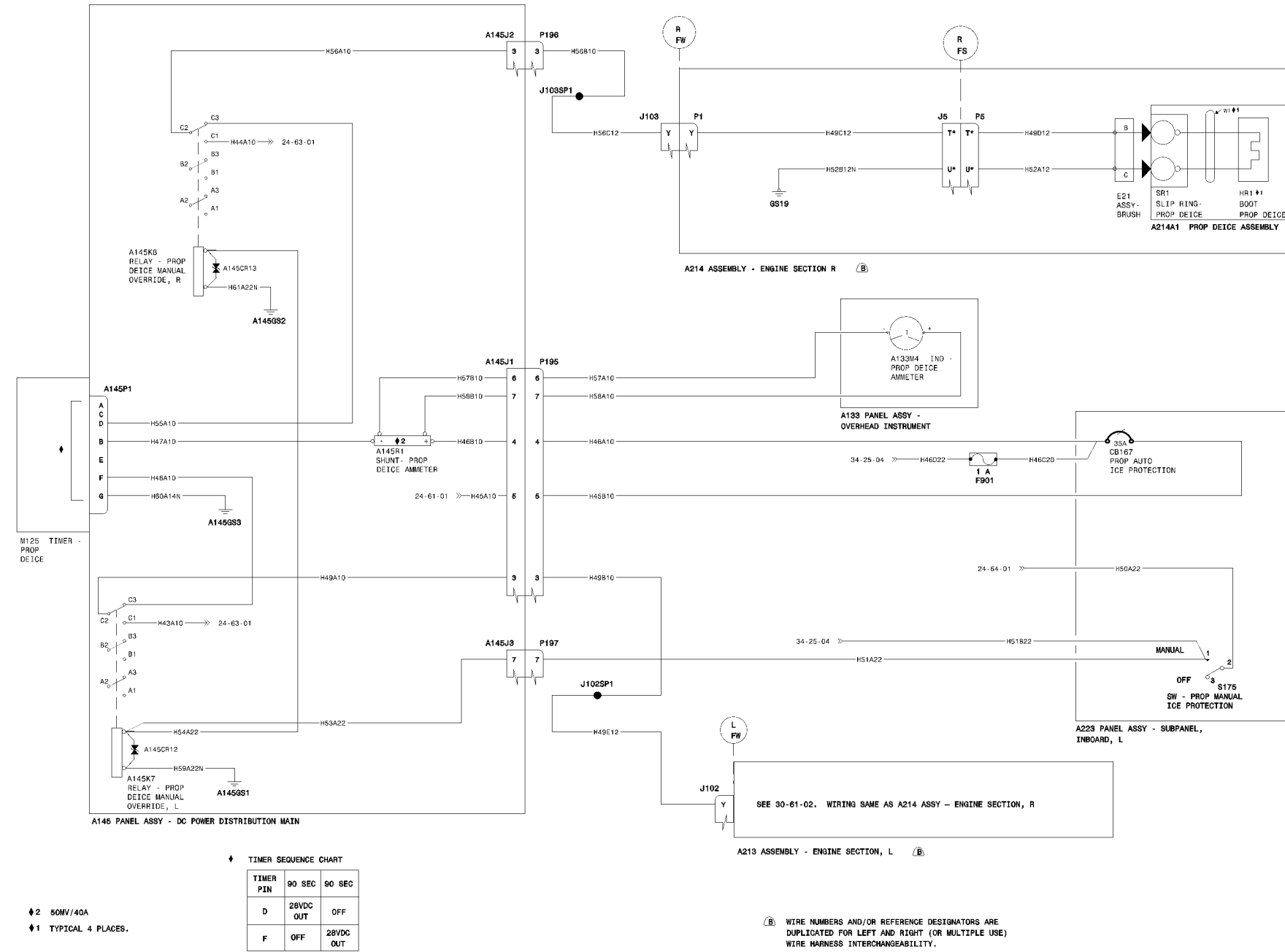
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RIGHT ENGINE ANTI-ICE  
 Figure 03 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
		1 2 3 4 5 6 7			
P2	MS3456KT36-7P	. PLUG NO. 2 FIREWALL (ZONE 410/420) . . . . .	V96906		01 R
-	131287-1	. . LABEL STOCK			01 R
-	131545SG14-0040	. . FIRESLEEVE FLAME RESISTANCE	V70898		01 R
-	360AS001Z13620H4	. . BACKSHELL	V81349		01 R
-	D-436-0098	. . SEALING SLEEVE	V06090		01 R
-	M39029/29-212	. . TERMINAL PIN CONTACT	V81349		38 R
-	M39029/29-213	. . TERMINAL PIN CONTACT	V81349		07 R
-	M39029/85-455	. . TERMINAL PIN CONTACT ALUMEL	V81349		01 R
-	M39029/85-456	. . TERMINAL PIN CONTACT CHROMEL	V81349		01 R
-	M83519/1-3	. . SHIELD TERMINATION	V81343		03 R
-	M83519/1-4	. . SHIELD TERMINATION	V81343		01 R
-	-49				
P2-SPAR- E-1		. SPARE WIRE CAP . . . . .			RF R
-	PD CAP 1/4-0	. . DUAL WALL INSULATING CAP	V06090		07 R
P2-SPAR- E-2		. SPARE WIRE CAP . . . . .			RF R
-	PD CAP 3/16-0	. . DUAL WALL INSULATING CAP	V06090		02 R
P352	3-582307-1	. RECEPTACLE N1 SPEED & R ICE VANE SNSR (ZONE 143) . . . . .			01 R
-	101-364221-35	. . DECAL	V70898		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	1-582156-9	. . KEYING CONTACT	V00779		01 R
-	66010-2	. . TERMINAL CONTACT	V00779		19 R
-	66026-2	. . TERMINAL CONTACT			01 R
P352SP1	M81824/1-2	. SPLICE . . . . .	V81343		01 R
P352SP2	M81824/1-2	. SPLICE . . . . .	V81343		01 R
P352SP3	M81824/1-2	. SPLICE . . . . .	V81343		01 R
P352SP4	M81824/1-2	. SPLICE . . . . .	V81343		01 R
P352SP5	M81824/1-2	. SPLICE . . . . .	V81343		01 R
S163		. SWITCH, TOGGLE SPDT (4) ENG ANTI-ICE CONTROL, R (ZONE 245) . . . . .			RF R
-	MS25036-102	. . TERMINAL RING TONGUE	V70898		12 R
S264		. SWITCH, TOGGLE TWO POLE ENG ANTI-ICE PWR SEL, R (ZONE 245) . . . . .			RF R
-	MS25036-102	. . TERMINAL RING TONGUE	V70898		04 R
S5	1EN564-2B	. SWITCH, ENCLOSED ICE VANE LINKAGE EXTEND SNSR, R (ZONE 410/420) . . . . .			01 R
-	131287-1	. . LABEL STOCK			01 R
S5SP20	320559	. SPLICE . . . . .	V70898		01 R
-	106242C43	. . HEATSHRINK	V70898		03 R
S6	1EN564-2B	. SWITCH, ENCLOSED ICE VANE LINKAGE RETRACT SNSR, R (ZONE 410/420) . . . . .			01 R
-	131287-1	. . LABEL STOCK			01 R

**BEECHCRAFT®  
MODEL B300/B300C FUSION  
WIRING DIAGRAM MANUAL**



190-360901\_1\_9

PROPELLER DEICE CONTROL  
Figure 02 (Sheet 1)

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
02		PROPELLER DEICE CONTROL	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
A133M4		. PROP AMMETER LIGHTED INDICATOR (ZONE 243) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-112	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
A145CR12	1.5KE51CA	. ZENER DIODE (ZONE 143) . . . . .	V24444		01 R
A145CR13	1.5KE51CA	. ZENER DIODE (ZONE 143) . . . . .	V24444		01 R
A145GS1		. GROUND STUD DC PWR DISTR, MAIN (ZONE 143). . . . .			RF R
-	MS25036-103	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
A145GS2		. GROUND STUD DC PWR DISTR, MAIN (ZONE 143). . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-103	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
-	MS25036-108	. . TERMINAL RING TONGUE . . . . .	V70898	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
A145GS3		. GROUND STUD DC PWR DISTR, MAIN (ZONE 143). . . . .			RF R
-	MS25036-103	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS25036-108	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A145J1	206137-1	. RECEPTACLE, 7 POSITION DC PWR DISTR, L (ZONE 143) . . . . .			01 R
-	66259-2	. . TERMINAL MALE CONTACT . . . . .	V00779		05 R
A145J2	206137-1	. RECEPTACLE, 7 POSITION DC PWR DISTR, R (ZONE 143) . . . . .			01 R
-	66259-2	. . TERMINAL MALE CONTACT . . . . .	V00779		05 R
-	66261-2	. . TERMINAL PIN CONTACT . . . . .			01 R
A145J3	206036-1	. RECPTACLE 17-16 RCPT DC PWR DISTR, L (ZONE 143) . . . . .	V00779		01 R
-	66099-4	. . TERMINAL PIN CONTACT . . . . .	V00779		05 R
-	66103-4	. . TERMINAL PIN CONTACT . . . . .	V00779		07 R
-	66361-4	. . TERMINAL PIN CRIMP . . . . .			04 R
A145K7	KC-J2A	. RELAY PROP DEICE MANUAL OVERRIDE, L (ZONE 143). . . . .			RF R
-	106242C43	. . HEATSHRINK . . . . .	V70898		05 R
-	B130-20	. . TUBING VINYL COATED FIBERGLASS . . . . .	V71002		02 R
-	SOLDER	. . TERMINAL CONTACT . . . . .			05 R
A145K8	KC-J2A	. RELAY PROP DEICE MANUAL OVERRIDE, R (ZONE 143) . . . . .			RF R
-	106242C43	. . HEATSHRINK . . . . .	V70898		05 R
-	B130-20	. . TUBING VINYL COATED FIBERGLASS . . . . .	V71002		02 R
-	SOLDER	. . TERMINAL CONTACT . . . . .			05 R
A145P1	MS3108B20-15S	. PLUG PROP DEICE TIMER (ZONE 143) . . . . .	V96906		01 R
-	106242C31	. . HEAT SHRINK TUBING . . . . .	V70898		04 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M85049/42-12DW	. . BACKSHELL . . . . .	V81349		01 R
-	SOLDER	. . TERMINAL CONTACT . . . . .			04 R
A145R1		. SHUNT AUTO PROP DEICE AMMETER (ZONE 143). . . . .			RF R
-	MS25036-156	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
-	MS25036-157	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
E21		. BRUSH BLOCK ASSEMBLY . . . . .			RF R
-	MS25036-111	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
F901	TJSE20510	. WIRE SPLICE FUSED . . . . .	V00779	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	M39029/1-101	. . TERMINAL PIN CONTACT . . . . .	V81349		02 R
GS19		. GROUND STUD . . . . .			RF R
-	131287-1	. . LABEL STOCK . . . . .			01 R
-	MS25036-103	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS25036-108	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS25036-112	. . TERMINAL RING TONGUE . . . . .	V70898		01 R

- ITEM NOT ILLUSTRATED

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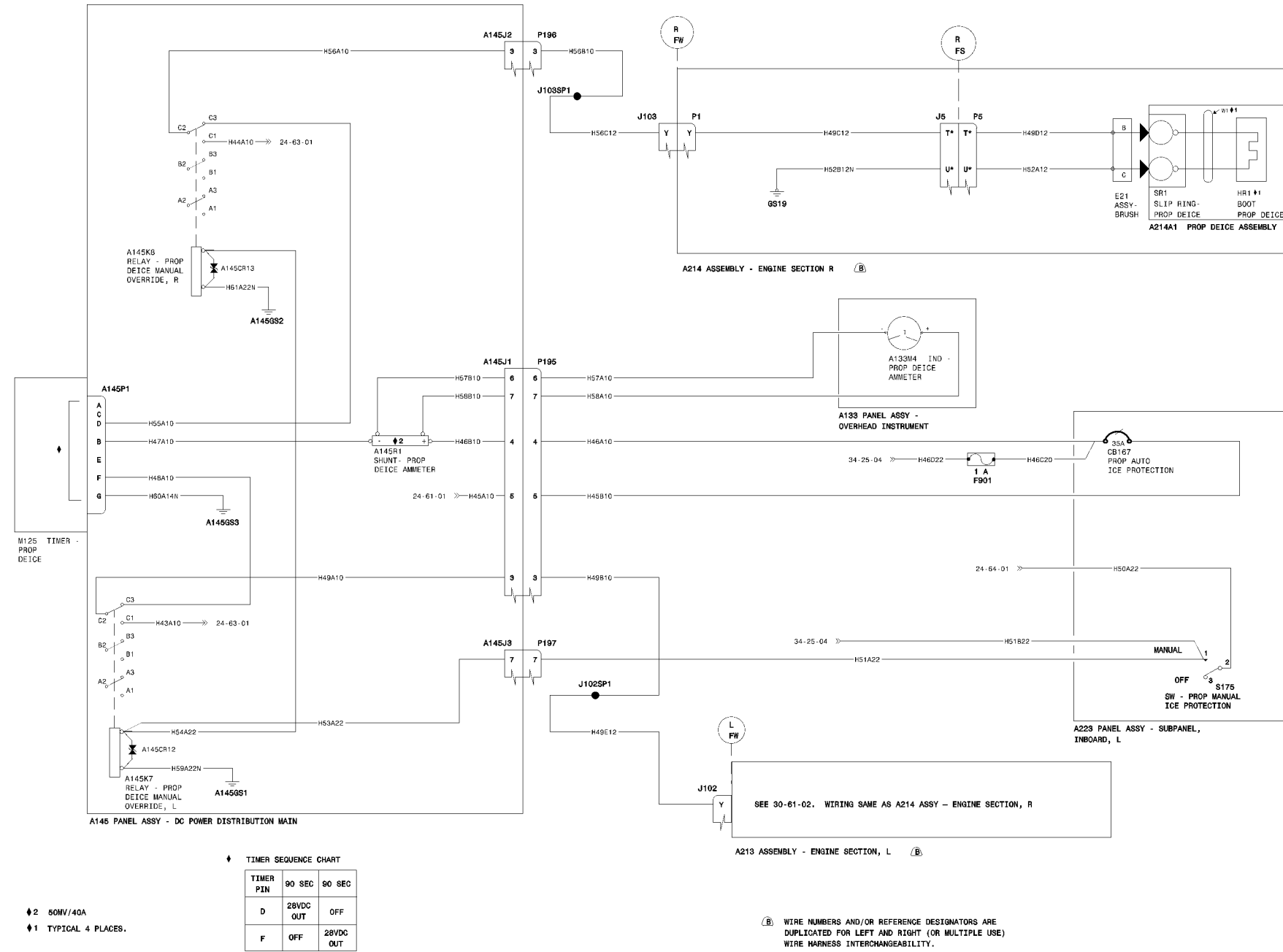
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Figure 02

Page 1

**30-61-01** Dec 02/2022

# BEECHCRAFT® MODEL B300/B300C FUSION WIRING DIAGRAM MANUAL



190-360901\_1\_9

PROPELLER DEICE CONTROL  
Figure 02 (Sheet 1)

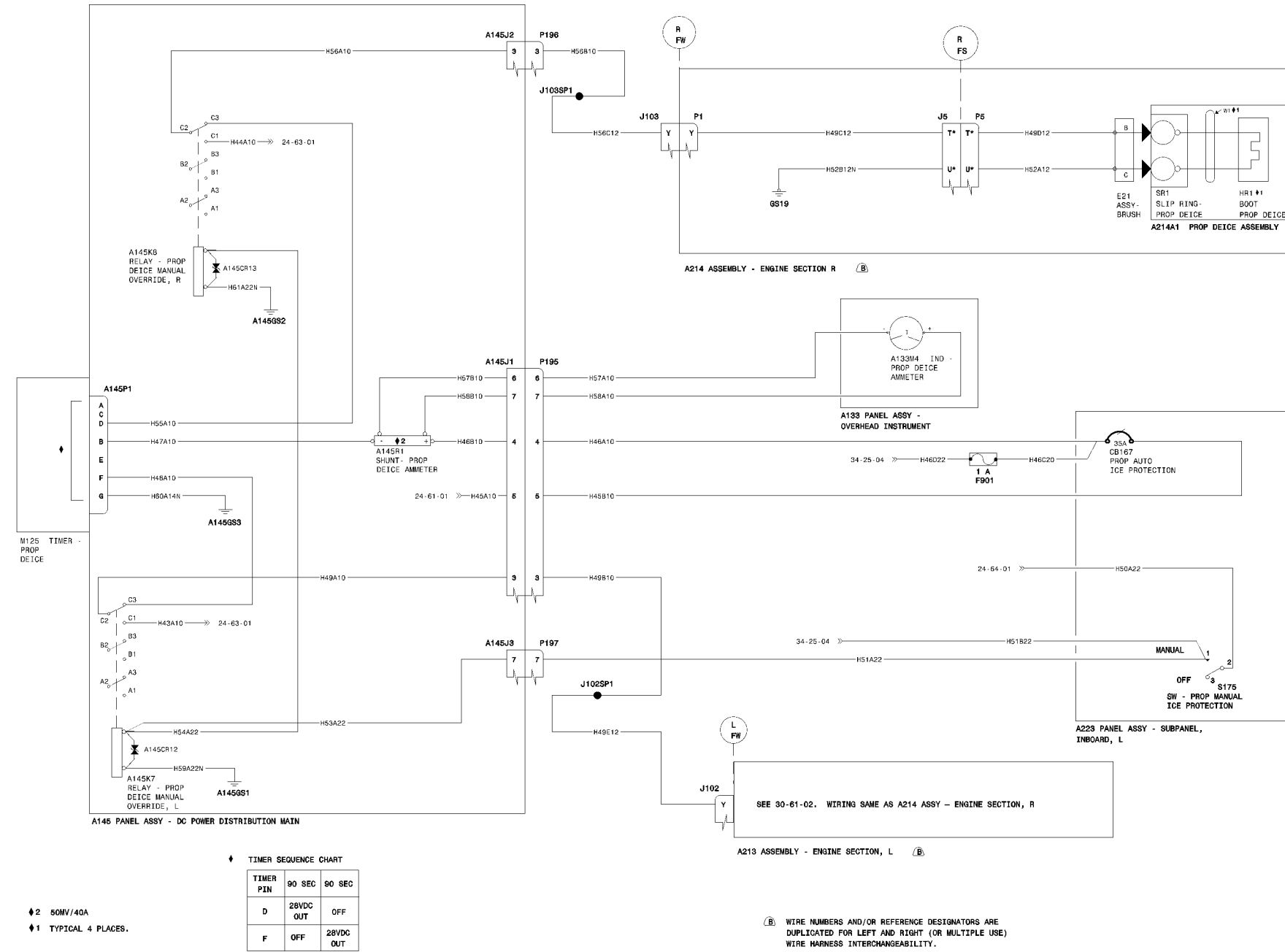


BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
			1	2	3
J102	MS3450KT36-8S	. RECEPTACLE NO. 1 FIREWALL, L (ZONE 521) . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	310-1620-091	. . TERMINAL SOCKET CONTACT . . . . .			39 R
-	350AS001N36-3	. . BACKSHELL . . . . .	V70898		01 R
-	D-436-0098	. . SEALING SLEEVE . . . . .	V06090		01 R
-	L144	. . FIBERFRAX TAPE . . . . .			01 R
-	M39029/30-218	. . TERMINAL SOCKET CONTACT . . . . .	V81349		08 R
-	M39029/30-219	. . TERMINAL SOCKET CONTACT . . . . .	V81349		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		07 R
J102SP1	320570	. SPLICE . . . . .	V70898		01 R
J103	MS3450KT36-8S	. RECEPTACLE NO. 1 FIREWALL, R (ZONE 621) . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	310-1620-091	. . TERMINAL SOCKET CONTACT . . . . .			39 R
-	350AS001N36-3	. . BACKSHELL . . . . .			01 R
-	D-436-0098	. . SEALING SLEEVE . . . . .	V06090		01 R
-	L144	. . FIBERFRAX TAPE . . . . .			01 R
-	M39029/30-218	. . TERMINAL SOCKET CONTACT . . . . .	V81349		07 R
-	M39029/30-219	. . TERMINAL SOCKET CONTACT . . . . .	V81349		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		07 R
J103SP1	320570	. SPLICE . . . . .	V70898		01 R
J5	MS3450L32-7S	. RECEPTACLE FIRE SEAL, R (ZONE 410) . . . . .	V96906		01 R
-	131287-1	. . LABEL STOCK . . . . .			01 R
-	131545SG14-0020	. . FIRESLEEVE FLAME RESISTANCE . . . . .	V70898		01 R
-	131545SG18-0020	. . FIRESLEEVE FLAME RESISTANCE . . . . .	V70898		01 R
-	M39029/30-218	. . TERMINAL SOCKET CONTACT . . . . .	V81349		40 R
-	M39029/30-219	. . TERMINAL SOCKET CONTACT . . . . .	V81349		07 R
-	M83519/1-3	. . SHIELD TERMINATION . . . . .	V81343		07 R
-	M85049/52-1-36W	. . BACKSHELL . . . . .	V81349		01 R
-	MS27488-12	. . SEALING PLUG . . . . .	V96906		05 R
-	MS27488-16	. . SEALING PLUG . . . . .	V96906		02 R
P195	206136-1	. PLUG, 7 POSITION DC POWER DISTR, L (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	206138-8	. . BACKSHELL . . . . .	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66740-6	. . TERMINAL FEMALE CONTACT . . . . .			01
-	66741-6	. . TERMINAL FEMALE CONTACT . . . . .			05 R
P196	206136-1	. PLUG, 7 POSITION DC POWER DISTR, R (ZONE 143) . . . . .	V00779		01 R
-	106242F50-00600	. . HEATSHRINK . . . . .	V70898		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	66740-6	. . TERMINAL FEMALE CONTACT . . . . .			01 R
-	66741-6	. . TERMINAL FEMALE CONTACT . . . . .			05 R
-	MS3420-8D	. . BUSHING . . . . .	V96906		01 R
P197	206037-1	. PLUG DC DISTR CONT, L (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	206070-1	. . BACKSHELL . . . . .	V00779		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		05 R
-	66105-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		07 R
-	66360-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		04 R
P1	MS3456KT36-8P	. PLUG NO. 1 FIREWALL, R (ZONE 420) . . . . .	V96906		01 R
-	131287-1	. . LABEL STOCK . . . . .			01 R
-	131545SG14-0040	. . FIRESLEEVE FLAME RESISTANCE . . . . .	V70898		01 R
-	360AJ001Z13620H-	. . BACKSHELL . . . . .			01 R
-	M39029/29-212	. . TERMINAL PIN CONTACT . . . . .	V81349		46 R
-	M39029/29-213	. . TERMINAL PIN CONTACT . . . . .	V81349		01 R
-	M83519/1-3	. . SHIELD TERMINATION . . . . .	V81343		07 R

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**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**



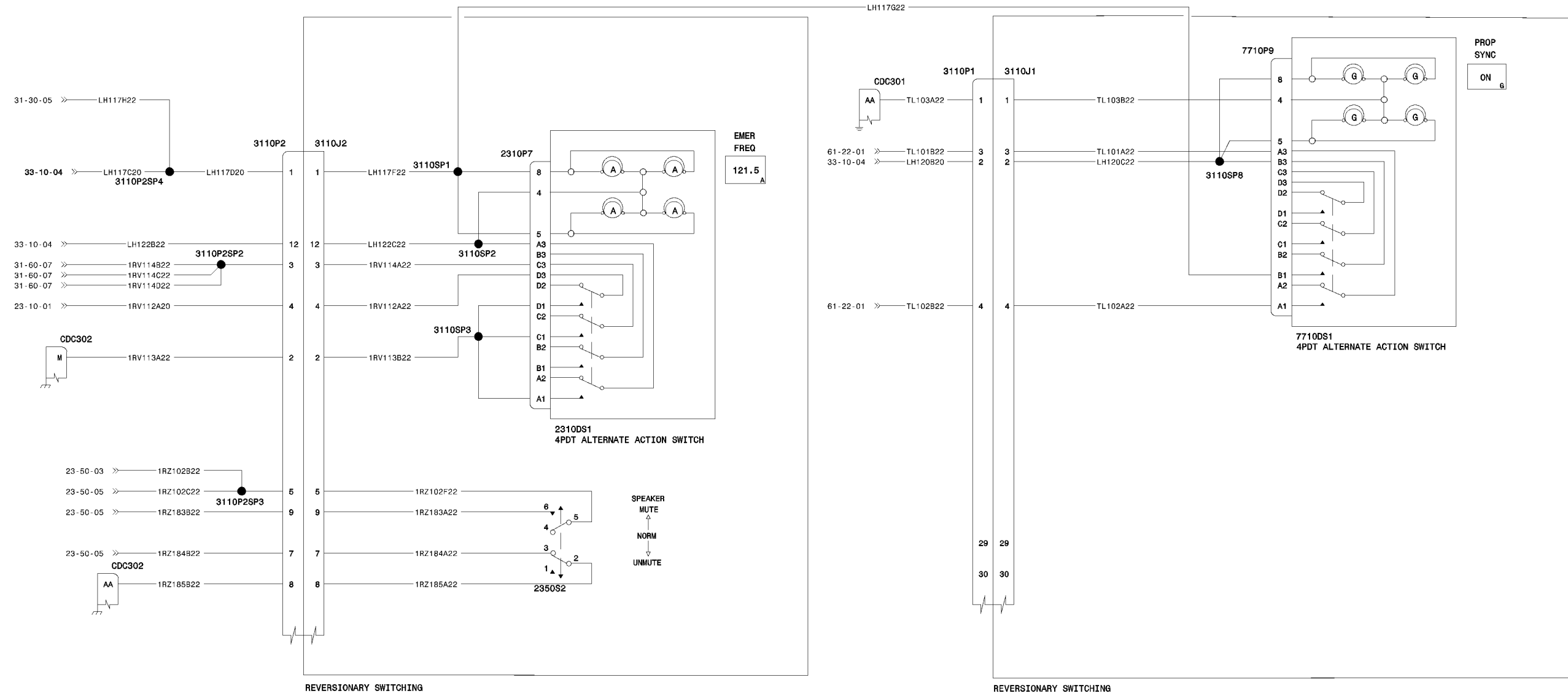
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PROPELLER DEICE CONTROL  
 Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY				
			FROM	TO					
			1	2	3	4	5	6	7
P5	MS3456KT36-7P	. PLUG FIRE SEAL, R (ZONE 410/420) . . . . .	V96906						01 R
-	131287-1	. . LABEL STOCK							01 R
-	131545SG14-0020	. . FIRESLEEVE FLAME RESISTANCE	V70898						01 R
-	131545SG18-0020	. . FIRESLEEVE FLAME RESISTANCE	V70898						01 R
-	M39029/29-212	. . TERMINAL PIN CONTACT	V81349						70 R
-	M39029/29-213	. . TERMINAL PIN CONTACT	V81349						07 R
-	M83519/1-3	. . SHIELD TERMINATION	V81343						07 R
-	M85049/52-1-36W	. . BACKSHELL	V81349						01 R
-	MS27488-12	. . SEALING PLUG	V96906						05 R
-	MS27488-16	. . SEALING PLUG	V96906						02 R
S175		. SWITCH, TOGGLE ONE POLE MANUAL PROP DEICE CONT (ZONE 245) . . . . .							RF R
-	MS25036-102	. . TERMINAL RING TONGUE	V70898						02 R

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**WIRING DIAGRAM MANUAL**



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REVERSIONARY SWITCHING  
 Figure 04 (Sheet 1)

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
04		REVERSIONARY SWITCHING	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
2310P7	584-527	. PLUG EMER FREQ .....	V96182		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	M39029/22-192	. . TERMINAL SOCKET CONTACT	V81349		09 R
2350S2	A215SYZQ04	. SWITCH DPDT .....	V06090	FL1140	FL9999
				FM0076	FM9999
-	106242C31	. . HEAT SHRINK TUBING	V70898		04 R
-	131741-1	. . MARKER BAND	V70898		01 R
-	SOLDER1	. . SOLDER			04 R
3110J1	RD37M10LV30	. PLUG PILOT REVERSIONARY PNL .....	V28198		01 R
-		. . BACKSHELL INCLUDED WITH CONNECTOR			RF R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/64-369	. . TERMINAL PIN CONTACT	V81349		21 R
3110J2	RD25M10LV30	. PLUG COPILOT REVERSIONARY PNL .....	V28198		01 R
-		. . BACKSHELL INCLUDED WITH CONNECTOR			RF R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/64-369	. . TERMINAL PIN CONTACT	V81349		20 R
3110P1	RD37S10LVLO	. RECEPTACLE REV SW PNL, L .....	V28198		01 R
-		. . BACKSHELL INCLUDED WITH CONNECTOR			RF R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/63-368	. . TERMINAL SOCKET CONTACT	V81349		AR R
3110P2	RD25S10LVLO	. RECEPTACLE REV SW PNL, R .....	V28198		01 R
-		. . BACKSHELL INCLUDED WITH CONNECTOR			RF R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/63-368	. . TERMINAL SOCKET CONTACT	V81349		16 R
3110P2	D-436-52	. SPLICE .....	V06090		01 R
SP2					
3110P2	M81824/1-2	. SPLICE .....	V81343	FL1140	FL9999
SP3				FM0076	FM9999
3110P2	D-436-37	. SPLICE .....	V06090	FL1300	FL1300
SP4				FL1307	FL9999
				FM0110	FM9999
3110SP1	M81824/1-2	. SPLICE .....	V81343		01 R
3110SP2	M81824/1-2	. SPLICE .....	V81343		01 R
3110SP3	D-436-52	. SPLICE .....	V06090		01 R
3110SP8	D-436-52	. SPLICE .....	V06090		01 R
7710P9	584-527	. PLUG PROP SYNC .....	V96182		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	M39029/22-192	. . TERMINAL SOCKET CONTACT	V81349		07 R
9183P1	MS3476W22-41P	. PLUG FWD PRESS BKHD .....	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT	V81349		27 R
-	M39029/4-111	. . TERMINAL PIN CONTACT	V81349		14 R
-	M83519/2-10	. . SHIELD TERMINATION	V81343		02 R
-	M85049/51S22W	. . BACKSHELL	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE	V70898		01 R
-	MS27488-16	. . SEALING PLUG	V96906		07 R
-	MS27488-20	. . SEALING PLUG	V96906		10 R
CDC301	200838-2	. RECEPTACLE, 34 POSITION GND BLK. ....	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	193846-1	. . TERMINAL SOCKET CONTACT	V00779		01 R
-	201224-1	. . BACKSHELL	V00779		01 R
-	201328-1	. . TERMINAL SOCKET CONTACT	V00779		21 R
-	203618-1	. . TERMINAL SOCKET CONTACT	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R

- ITEM NOT ILLUSTRATED

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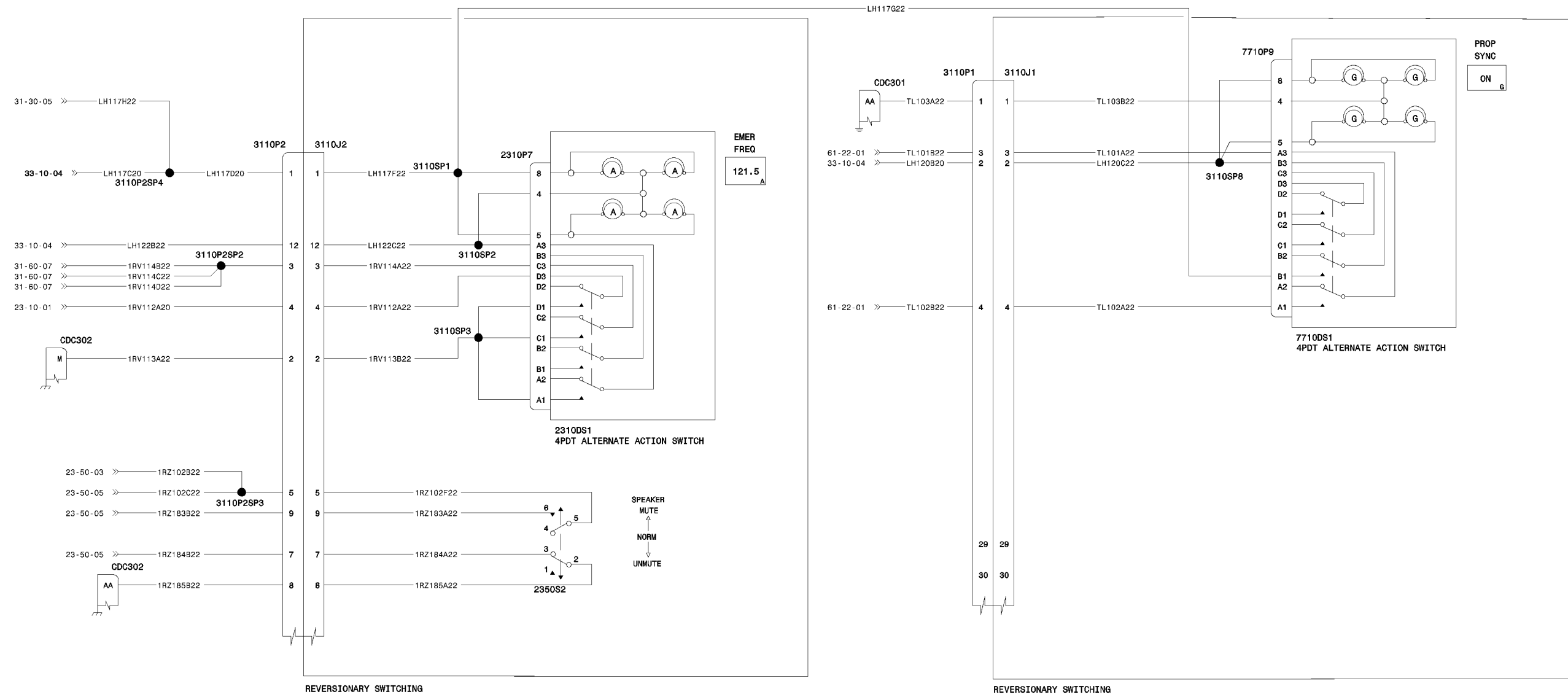
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Figure 04

Page 1

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**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**



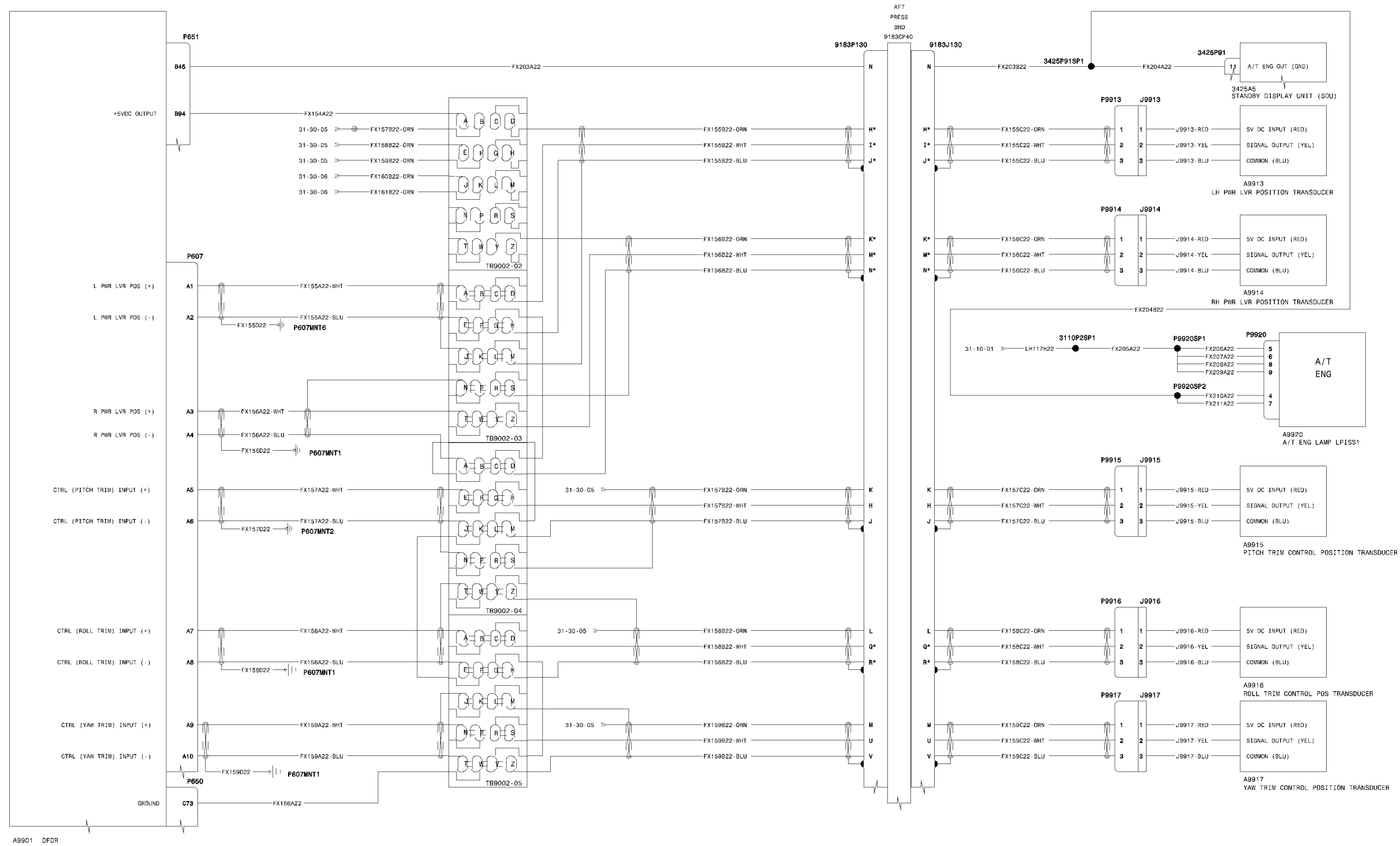
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REVERSIONARY SWITCHING  
 Figure 04 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
			1	2	3
			4	5	6
			7		
CDC302	200838-2	. RECEPTACLE, 34 POSITION CAB GND BLK, R . . . . .		V00779	01 R
-	131741-3	. . MARKER BAND		V70898	01 R
-	193846-1	. . TERMINAL SOCKET CONTACT		V00779	01 R
-	201224-1	. . BACKSHELL		V00779	01 R
-	201328-1	. . TERMINAL SOCKET CONTACT		V00779	11 R
-	202508-1	. . TERMINAL SOCKET CONTACT		V00779	01 R
-	203618-1	. . JACKSCREW		V00779	02 R
-	52672	. . FIRE RESISTANT TAPE		V02988	01 R

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**



PITCH, ROLL, AND YAW TRANSDUCERS (OPTIONAL)  
 Figure 04 (Sheet 1)



BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
04		PITCH, ROLL, AND YAW TRANSDUCERS (OPTIONAL)	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
3110P2 SP1	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
3425P91	M24308/2-12F	. CONNECTOR . . . . .	V81349	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	D15000GE0	. . BACKSHELL	V28198		01 R
-	M39029/57-354	. . TERMINAL SOCKET CONTACT	V81349		16 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		01 R
-	MS25036-148	. . TERMINAL RING TONGUE	V96906		01 R
3425P91 SP1	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
J9913	207359-1	. RECEPTACLE, 3 POSITION . . . . . W/ OPTIONAL DFDR INSTALLED	V00779		01 R
-	201330-1	. . TERMINAL PIN CONTACT	V00779		AR R
J9914	207359-1	. RECEPTACLE, 3 POSITION . . . . . W/ OPTIONAL DFDR INSTALLED	V00779		01 R
-	201330-1	. . TERMINAL PIN CONTACT	V00779		AR R
J9915	207359-1	. RECEPTACLE, 3 POSITION . . . . . W/ OPTIONAL DFDR INSTALLED	V00779		01 R
-	201330-1	. . TERMINAL PIN CONTACT	V00779		AR R
J9916	207359-1	. RECEPTACLE, 3 POSITION . . . . . W/ OPTIONAL DFDR INSTALLED	V00779		01 R
-	201330-1	. . TERMINAL PIN CONTACT	V00779		AR R
J9917	207359-1	. RECEPTACLE, 3 POSITION . . . . . W/ OPTIONAL DFDR INSTALLED	V00779		01 R
-	201330-1	. . TERMINAL PIN CONTACT	V00779		AR R
P607	DPX4MA-A424-33P-	. CONNECTOR . . . . . W/ OPTIONAL DFDR INSTALLED	V71468		01 R
-	0001	. . CONTACT	V71468		AR R
P650	030-1975-008 M3 9029/11-144 DPX4MA-A424-33P-	. CONNECTOR . . . . . W/ OPTIONAL DFDR INSTALLED	V71468		01 R
-	0001	. . CONTACT	V71468		AR R
-	030-1975-008 M3 M83519/2-8 9029/11-144	. . SHIELD TERMINATION	V81343		AR R
P651	DPX4MA-A424-33P-	. CONNECTOR . . . . . W/ OPTIONAL DFDR INSTALLED	V71468		01 R
-	0001	. . CONTACT	V71468		AR R
-	030-1975-008 M3 M83519/2-8 9029/11-144	. . SHIELD TERMINATION	V81343		AR R
P9913	207360-1	. PLUG, 3 POSITION . . . . . W/ OPTIONAL DFDR INSTALLED	V00779		01 R
-	201328-1	. . TERMINAL SOCKET CONTACT	V00779		AR R
-	M83519/1-8	. . SHIELD TERMINATION	V00779		AR R
P9914	207360-1	. PLUG, 3 POSITION . . . . . W/ OPTIONAL DFDR INSTALLED	V00779		01 R
-	201328-1	. . TERMINAL SOCKET CONTACT	V00779		AR R
-	M83519/1-8	. . SHIELD TERMINATION	V00779		AR R
P9915	207360-1	. PLUG, 3 POSITION . . . . . W/ OPTIONAL DFDR INSTALLED	V00779		01 R
-	201328-1	. . TERMINAL SOCKET CONTACT	V00779		AR R
-	M83519/1-8	. . SHIELD TERMINATION	V00779		AR R

- ITEM NOT ILLUSTRATED

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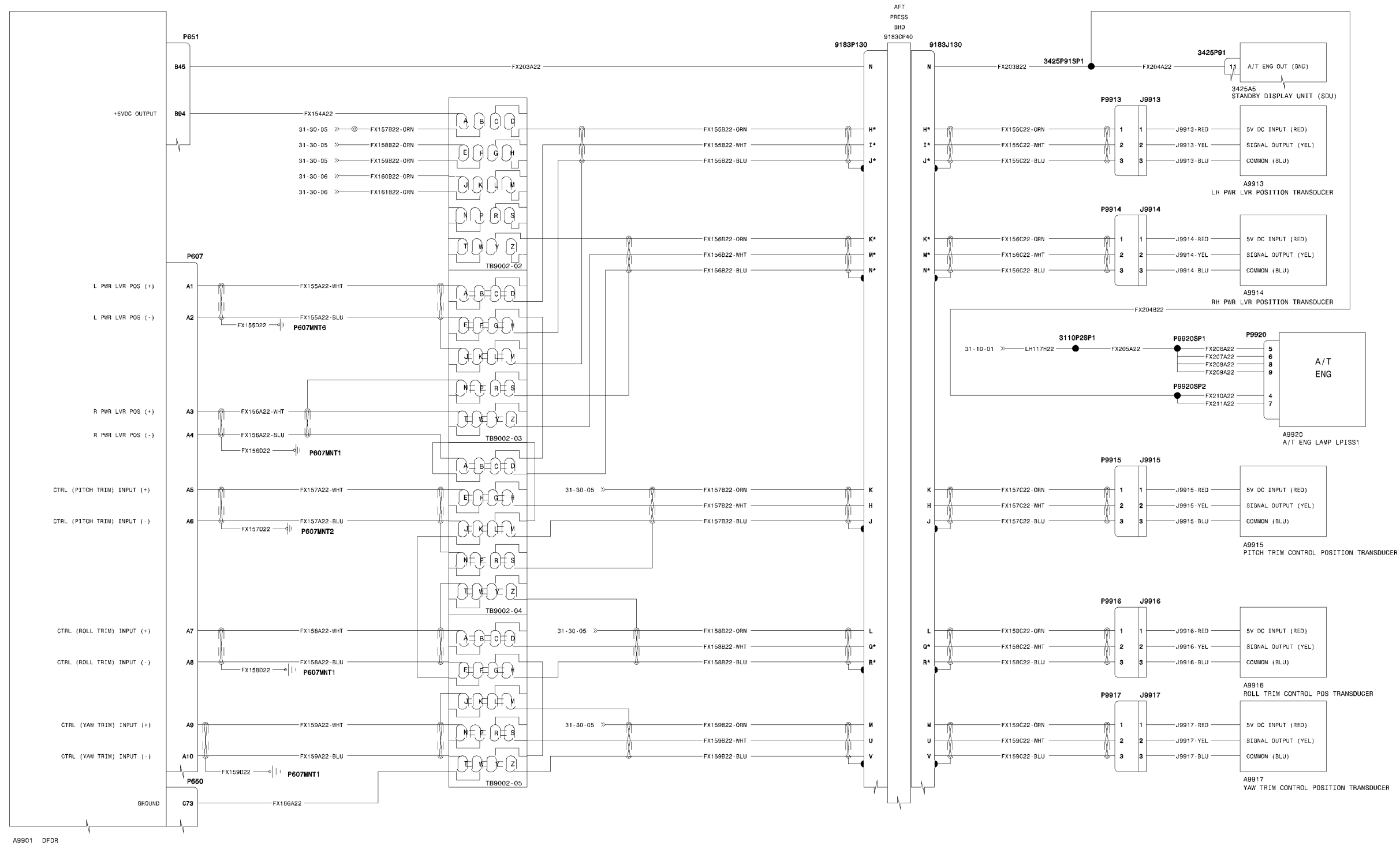
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Figure 04

Page 1

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**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**

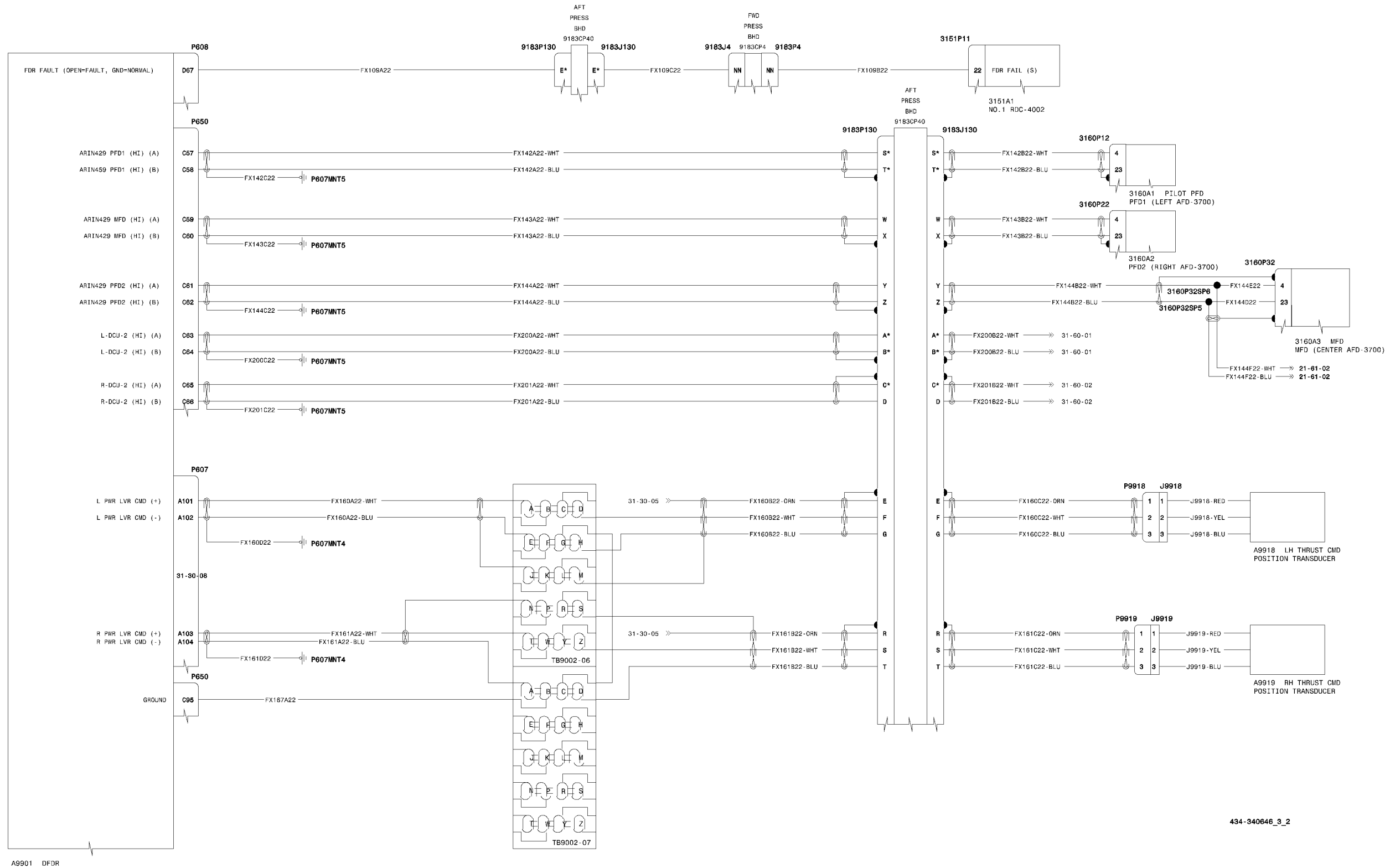


PITCH, ROLL, AND YAW TRANSDUCERS (OPTIONAL)  
 Figure 04 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
P9916	207360-1	. PLUG, 3 POSITION . . . . .	V00779		01 R
-	201328-1	. . . . . W/ OPTIONAL DFDR INSTALLED			
-	M83519/1-8	. . . . . TERMINAL SOCKET CONTACT	V00779		AR R
-	M83519/1-8	. . . . . SHIELD TERMINATION			AR R
P9917	207360-1	. PLUG, 3 POSITION . . . . .	V00779		01 R
-	201328-1	. . . . . W/ OPTIONAL DFDR INSTALLED			
-	201328-1	. . . . . TERMINAL SOCKET CONTACT	V00779		AR R
-	M83519/1-8	. . . . . SHIELD TERMINATION			AR R
P9920	44387-001	. SWITCH CONNECTOR . . . . .	V81590	FL1300 FL1300	01 R
-	131741-1	. . . . . MARKER BAND	V70898	FL1307 FL9999	01 R
-	41861-887	. . . . . INDICATOR	V81590	FM0110 FM9999	01 R
-	M39029/57-354	. . . . . TERMINAL SOCKET CONTACT	V81349		06 R
P9920SP1	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300	01 R
-				FL1307 FL9999	
-				FM0110 FM9999	
P9920SP2	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300	01 R
-				FL1307 FL9999	
-				FM0110 FM9999	
TB9002-02	CTJ122E01C-513	. TERMINAL JUNCTION . . . . .	V11139		01 R
-	M39029/11-144	. . . . . W/ OPTIONAL DFDR INSTALLED			
-	MS27488-20	. . . . . TERMINAL PIN CONTACT	V81349		AR R
-	MS27488-20	. . . . . SEALING PLUG	V96906		AR R
TB9002-03	CTJ122E05E-513	. FEEDBACK MODULE . . . . .	V11139		01 R
-	M39029/11-144	. . . . . W/ OPTIONAL DFDR INSTALLED			
-	M39029/11-144	. . . . . TERMINAL PIN CONTACT	V81349		AR R
-	M83519/2-8	. . . . . SHIELD TERMINATION	V81343		AR R
-	MS27488-20	. . . . . SEALING PLUG	V96906		AR R
TB9002-04	CTJ122E05E-513	. FEEDBACK MODULE . . . . .	V11139		01 R
-	M39029/11-144	. . . . . W/ OPTIONAL DFDR INSTALLED			
-	M39029/11-144	. . . . . TERMINAL PIN CONTACT	V81349		AR R
-	M83519/2-8	. . . . . SHIELD TERMINATION	V81343		AR R
-	MS27488-20	. . . . . SEALING PLUG	V96906		AR R
TB9002-05	CTJ122E05E-513	. FEEDBACK MODULE . . . . .	V11139		01 R
-	M39029/11-144	. . . . . W/ OPTIONAL DFDR INSTALLED			
-	M39029/11-144	. . . . . TERMINAL PIN CONTACT	V81349		AR R
-	M83519/2-8	. . . . . SHIELD TERMINATION	V81343		AR R
-	MS27488-20	. . . . . SEALING PLUG	V96906		AR R

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**WIRING DIAGRAM MANUAL**



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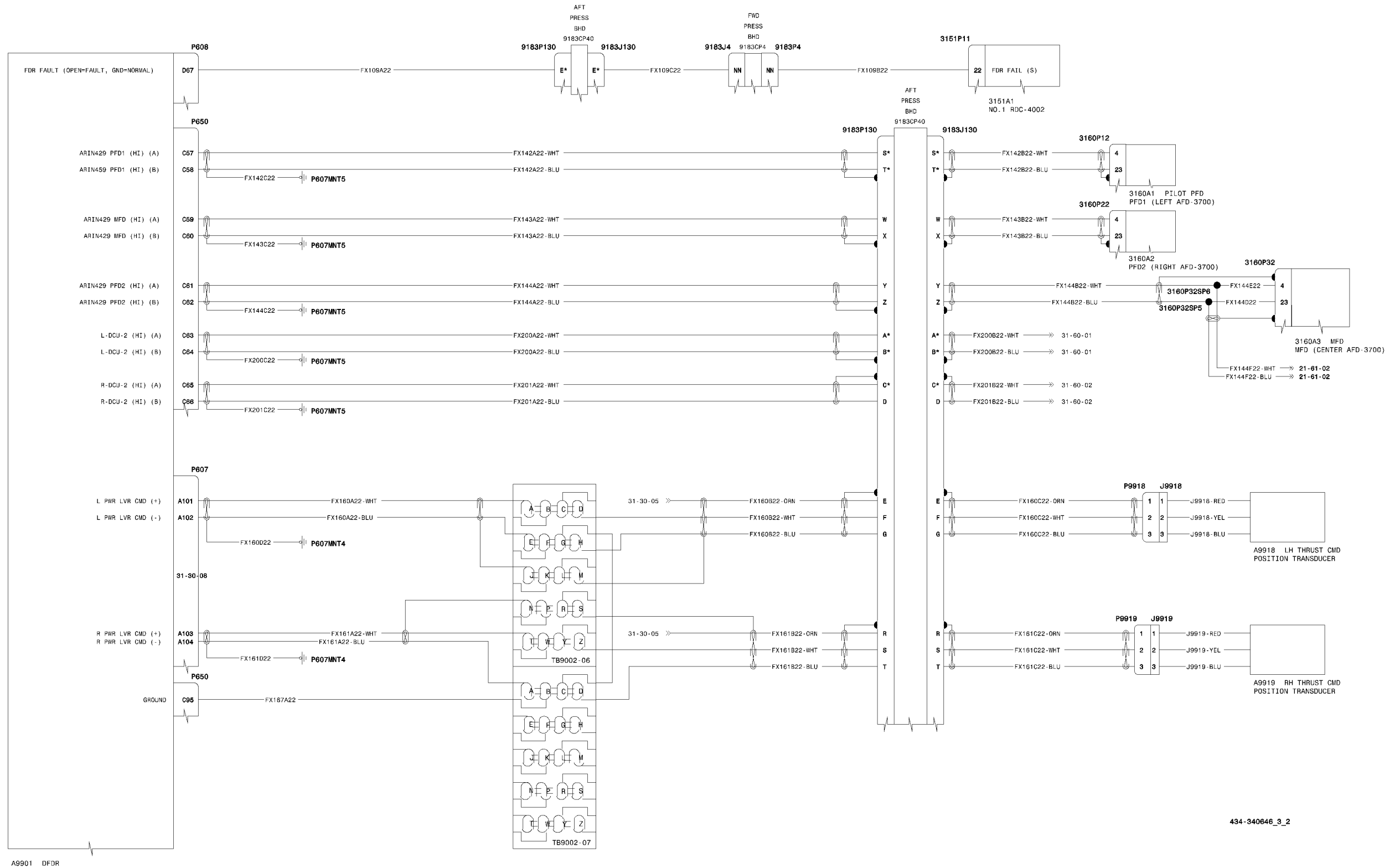
THRUST COMMAND TRANSDUCERS (OPTIONAL)  
 Figure 04 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
04		THRUST COMMAND TRANSDUCERS (OPTIONAL)	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
3151P11	D38999/26FF35SN	. PLUG RDC NO. 1 . . . . .	V81349		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/56-348	. . TERMINAL SOCKET CONTACT . . . . .	V81349		AR R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		01 R
-	M85049/39S19N	. . BACKSHELL . . . . .	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS27488-22	. . SEALING PLUG . . . . .	V96906		AR R
3160P12	DD78S10000	. RECEPTACLE PILOT PFD . . . . .	V28198		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	5480	. . PTFE SKIVED FILM TAPE . . . . .			01 R
-	983-9034-561	. . BACKSHELL KIT SHELL SIZE 5 . . . . .	V0EFD0		01 R
-	M39029/57-354	. . TERMINAL SOCKET CONTACT INCLUDED WITH CONNECTOR . . . . .	V81349		AR R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		16 R
-	MS25036-152	. . TERMINAL RING TONGUE . . . . .	V96906		03 R
3160P22	DD78S10000	. RECEPTACLE COPILOT PFD . . . . .	V28198		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	5480	. . PTFE SKIVED FILM TAPE . . . . .			01 R
-	983-9034-561	. . BACKSHELL KIT SHELL SIZE 5 . . . . .	V0EFD0		01 R
-	M39029/57-354	. . TERMINAL SOCKET CONTACT . . . . .	V81349		AR R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		18 R
-	MS25036-152	. . TERMINAL RING TONGUE . . . . .	V96906		04 R
3160P32	DD78S10000	. RECEPTACLE MFD . . . . .	V28198		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	5480	. . PTFE SKIVED FILM TAPE . . . . .			01 R
-	983-9034-561	. . BACKSHELL KIT SHELL SIZE 5 . . . . .	V0EFD0		01 R
-	M39029/57-354	. . TERMINAL SOCKET CONTACT . . . . .	V81349		AR R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		14 R
-	MS25036-152	. . TERMINAL RING TONGUE . . . . .	V96906		04 R
3160P32 SP5	M81824/1-2	. SPLICE . . . . .		FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
3160P32 SP6	M81824/1-2	. SPLICE . . . . .		FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .			02 R
9183J4	MS3476W24-61S	. PLUG . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT . . . . .	V81349		61 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		10 R
-	M83519/2-9	. . SHIELD TERMINATION . . . . .	V81343		01 R
-	M85049/52S24W	. . BACKSHELL . . . . .	V81349		01 R
-	MS25036-153	. . TERMINAL RING TONGUE . . . . .	V70898		04 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		17 R
9183P4	MS3476W24-61P	. PLUG FWD BKHD . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT . . . . .	V81349		61 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		16 R
-	M83519/2-9	. . SHIELD TERMINATION . . . . .	V81343		01 R
-	M85049/51S24W	. . BACKSHELL . . . . .	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS25036-153	. . TERMINAL RING TONGUE . . . . .	V70898		03 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		06 R
J9918	207359-1	. RECEPTACLE, 3 POSITION . . . . .	V00779		01 R
-	201330-1	. . TERMINAL PIN CONTACT . . . . .	V00779		AR R

- ITEM NOT ILLUSTRATED

**BEECHCRAFT®  
MODEL B300/B300C FUSION  
WIRING DIAGRAM MANUAL**



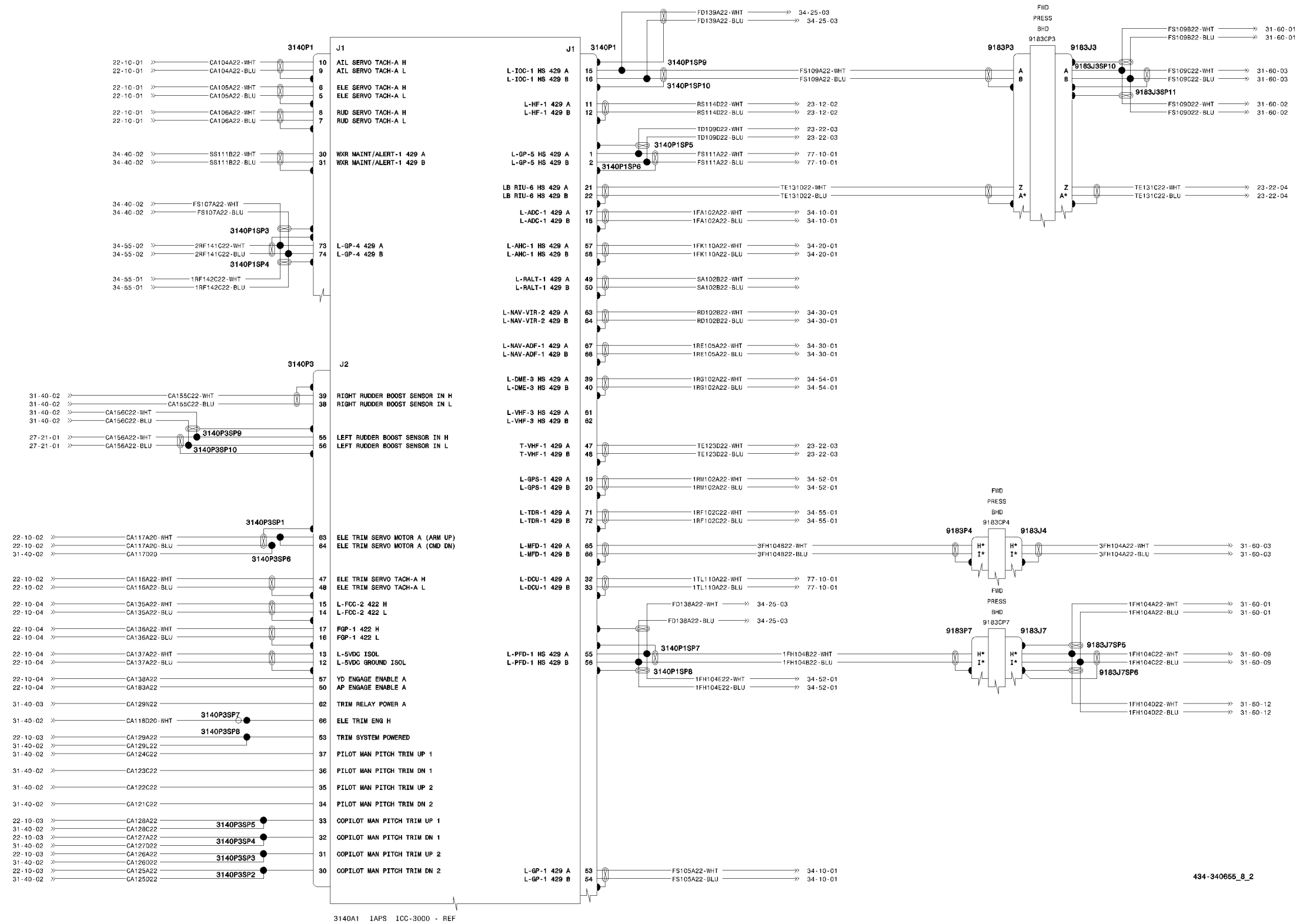
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THRUST COMMAND TRANSDUCERS (OPTIONAL)  
Figure 04 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
J9919	207359-1	. RECEPTACLE, 3 POSITION . . . . . V00779			01 R
-	201330-1	. . . . . W/ OPTIONAL DFDR INSTALLED . . . . . V00779			AR R
P607	DPX4MA-A424-33P-	. . . . . TERMINAL PIN CONTACT . . . . . V00779			AR R
-	0001	. . . . . CONNECTOR . . . . . V71468			01 R
-	030-1975-008 M3	. . . . . W/ OPTIONAL DFDR INSTALLED . . . . . V71468			AR R
P608	9029/11-144	. . . . . CONTACT . . . . . V71468			AR R
-	DPX4MA-A424-33P-	. . . . . CONNECTOR . . . . . V71468			01 R
-	0001	. . . . . W/ OPTIONAL DFDR INSTALLED . . . . . V71468			AR R
-	030-1975-008 M3	. . . . . CONTACT . . . . . V71468			AR R
P650	9029/11-144	. . . . . CONTACT . . . . . V71468			AR R
-	DPX4MA-A424-33P-	. . . . . CONNECTOR . . . . . V71468			01 R
-	0001	. . . . . W/ OPTIONAL DFDR INSTALLED . . . . . V71468			AR R
-	030-1975-008 M3	. . . . . CONTACT . . . . . V71468			AR R
-	M83519/2-8	. . . . . SHIELD TERMINATION . . . . . V81343			AR R
-	9029/11-144	. . . . . SHIELD TERMINATION . . . . . V81343			AR R
P9918	207360-1	. . . . . PLUG, 3 POSITION . . . . . V00779			01 R
-	201328-1	. . . . . W/ OPTIONAL DFDR INSTALLED . . . . . V00779			AR R
-	M83519/1-8	. . . . . TERMINAL SOCKET CONTACT . . . . . V00779			AR R
P9919	207360-1	. . . . . SHIELD TERMINATION . . . . . V00779			01 R
-	201328-1	. . . . . PLUG, 3 POSITION . . . . . V00779			01 R
-	M83519/1-8	. . . . . W/ OPTIONAL DFDR INSTALLED . . . . . V00779			AR R
-	201328-1	. . . . . TERMINAL SOCKET CONTACT . . . . . V00779			AR R
-	M83519/1-8	. . . . . SHIELD TERMINATION . . . . . V00779			AR R
TB9002-06	CTJ122E05E-513	. . . . . FEEDBACK MODULE . . . . . V11139			01 R
-	M39029/11-144	. . . . . W/ OPTIONAL DFDR INSTALLED . . . . . V11139			AR R
-	M83519/2-8	. . . . . TERMINAL PIN CONTACT . . . . . V81349			AR R
-	MS27488-20	. . . . . SHIELD TERMINATION . . . . . V81343			AR R
-	MS27488-20	. . . . . SEALING PLUG . . . . . V96906			AR R
TB9002-07	CTJ122E05E-513	. . . . . FEEDBACK MODULE . . . . . V11139			01 R
-	M39029/11-144	. . . . . W/ OPTIONAL DFDR INSTALLED . . . . . V11139			AR R
-	M83519/2-8	. . . . . TERMINAL PIN CONTACT . . . . . V81349			AR R
-	MS27488-20	. . . . . SEALING PLUG . . . . . V96906			AR R

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**



INTEGRATED AVIONICS PROCESSOR SYSTEM  
 Figure 05 (Sheet 1)



BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
05		INTEGRATED AVIONICS PROCESSOR SYSTEM	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
3140P1	MS27484T20F35S	. PLUG IAPS . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/57-354	. . TERMINAL SOCKET CONTACT	V81349		79 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		19 R
-	M85049/49-2-20N	. . BACKSHELL	V81349		01 R
-	MS25036-153	. . TERMINAL RING TONGUE	V70898		02 R
-	MS25036-156	. . TERMINAL RING TONGUE	V70898		02 R
-	MS27488-22	. . SEALING PLUG	V96906		35 R
3140P1S- P10	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
3140P1 SP3	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		03 R
3140P1 SP4	M81824/1-2	. SPLICE . . . . .	V81343		01 R
3140P1 SP5	M83519/1-2	. SPLICE . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		02 R
3140P1 SP6	M81824/1-2	. SPLICE . . . . .	V81343		01 R
3140P1 SP7	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		02 R
3140P1 SP8	M81824/1-2	. SPLICE . . . . .	V81343		01 R
3140P1 SP9	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
-	M83519/2-8	. . SHIELD TERMINATION	V81343		01 R
3140P3	MS27484T18F35S	. PLUG IAPS . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/57-354	. . TERMINAL SOCKET CONTACT	V81349		66 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		05 R
-	M85049/49-2-18N	. . BACKSHELL	V81349		01 R
-	MS25036-153	. . TERMINAL RING TONGUE	V70898		01 R
-	MS27488-22	. . SEALING PLUG	V96906		39 R
3140P3S- P10	M81824/1-2	. SPLICE . . . . .	V81343		01 R
3140P3 SP1	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		01 R
3140P3 SP2	M81824/1-2	. SPLICE . . . . .	V81343		01 R
3140P3 SP3	M81824/1-2	. SPLICE . . . . .	V81343		01 R
3140P3 SP4	M81824/1-2	. SPLICE . . . . .	V81343		01 R
3140P3 SP5	M81824/1-2	. SPLICE . . . . .	V81343		01 R
3140P3 SP6	M81824/1-1	. SPLICE . . . . .	V81343		01 R
3140P3 SP7	M81824/1-1	. SPLICE . . . . .	V81343		01 R
-	D-436-0096	. . SEALING SLEEVE	V06090		01 R
3140P3 SP8	M81824/1-2	. SPLICE . . . . .	V81343		01 R
3140P3 SP9	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		02 R

- ITEM NOT ILLUSTRATED

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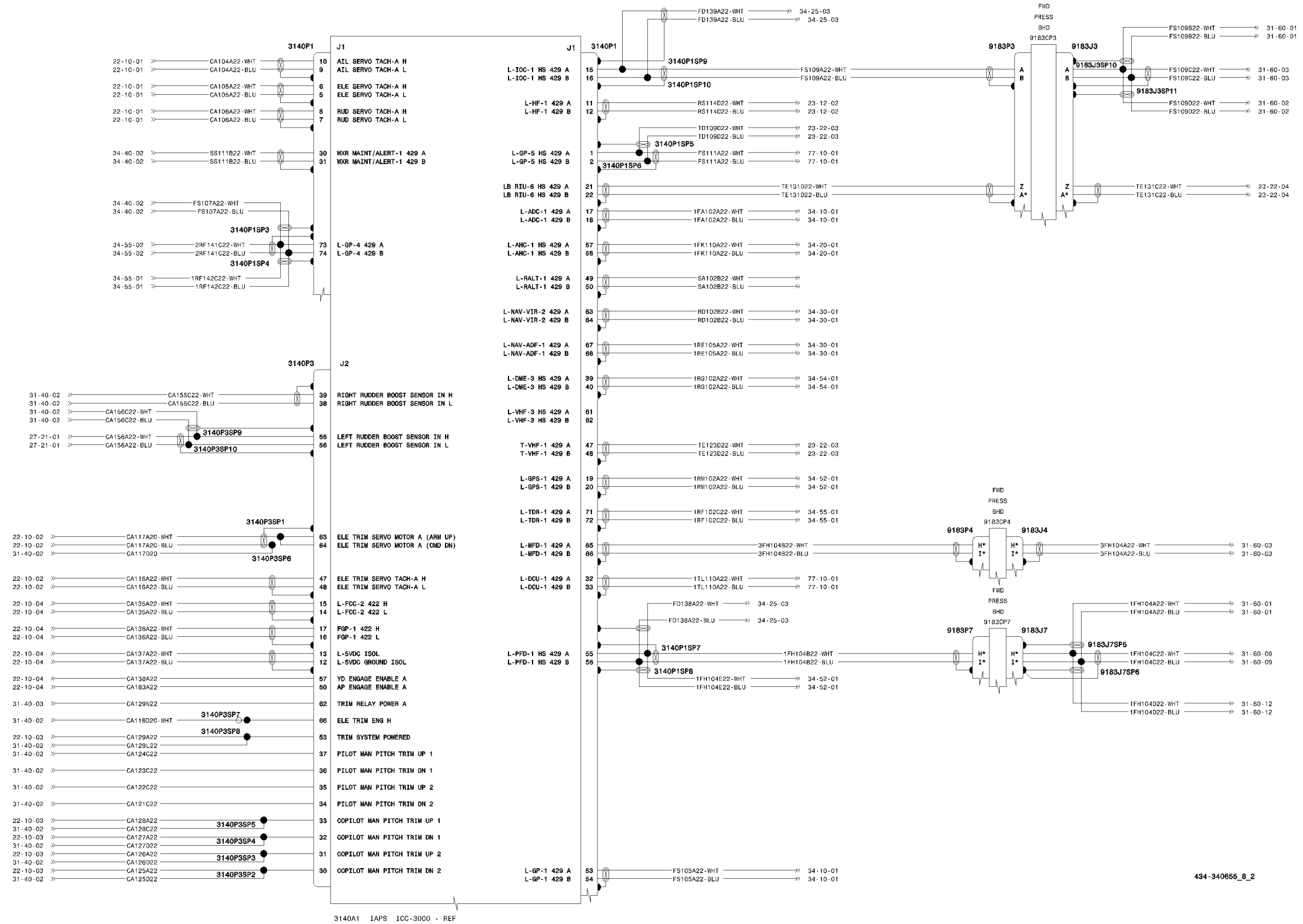
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Figure 05

Page 1

**31-40-01** Dec 02/2022

# BEECHCRAFT® MODEL B300/B300C FUSION WIRING DIAGRAM MANUAL



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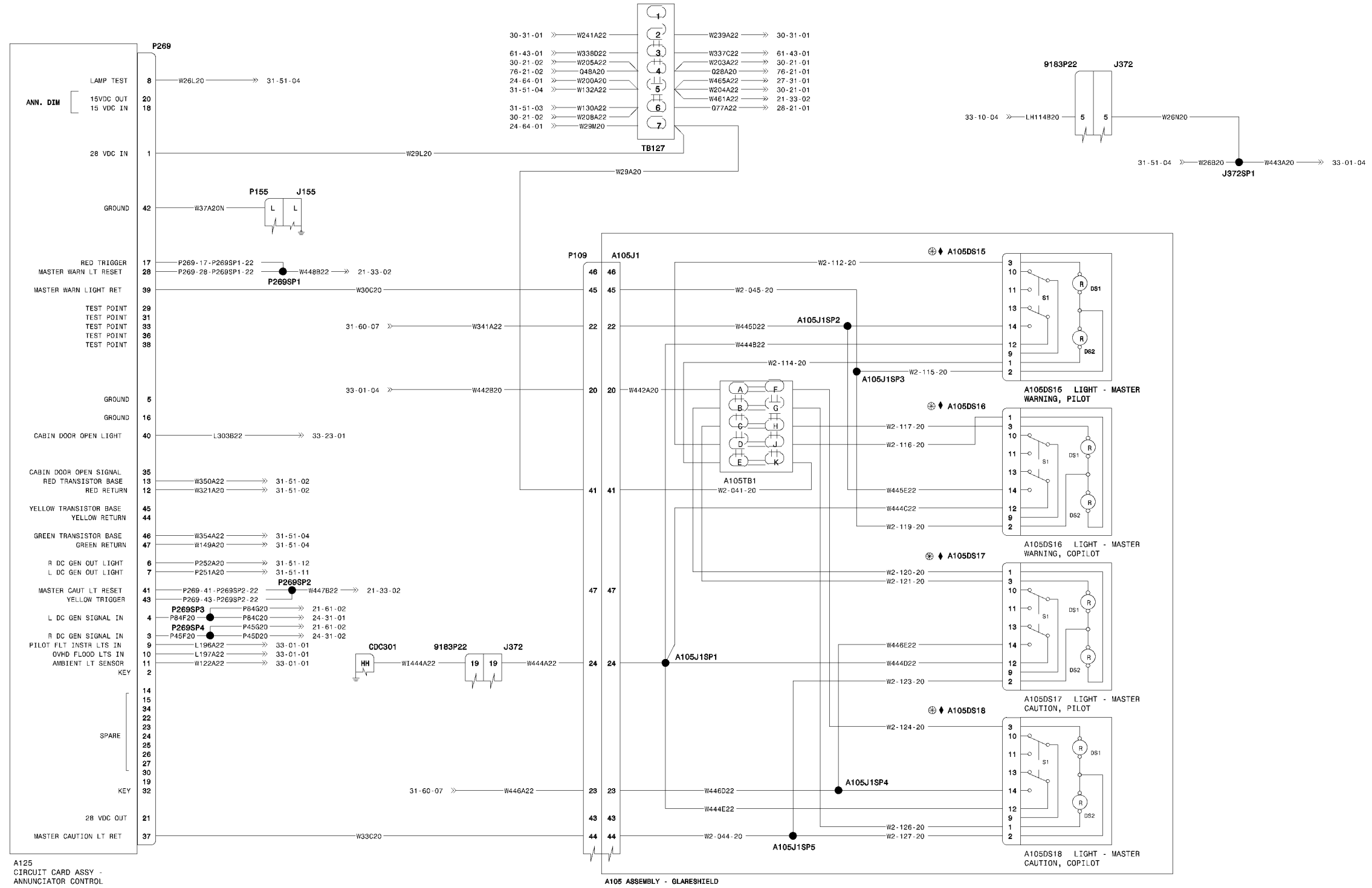
INTEGRATED AVIONICS PROCESSOR SYSTEM  
Figure 05 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS
			FROM	TO	PER ASSY
		1 2 3 4 5 6 7			
9183J3	MS3476W24-61SW	. PLUG		V96906	01 R
-	131741-3	. . MARKER BAND		V70898	01 R
-	52672	. . FIRE RESISTANT TAPE		V02988	01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT		V81349	46 R
-	M83519/2-8	. . SHIELD TERMINATION		V81343	13 R
-	M85049/52S24W	. . BACKSHELL		V81349	01 R
-	MS25036-153	. . TERMINAL RING TONGUE		V70898	02 R
-	MS25036-156	. . TERMINAL RING TONGUE		V70898	02 R
-	MS27488-20	. . SEALING PLUG		V96906	15 R
9183J3S- P10	M81824/1-2	. SPLICE		V81343	01 R
-	M83519/2-8	. . SHIELD TERMINATION		V81343	03 R
9183J3S- P11	M81824/1-2	. SPLICE		V81343	01 R
9183J4	MS3476W24-61S	. PLUG		V96906	01 R
-	131741-3	. . MARKER BAND		V70898	01 R
-	52672	. . FIRE RESISTANT TAPE		V02988	01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT		V81349	61 R
-	M83519/2-8	. . SHIELD TERMINATION		V81343	10 R
-	M83519/2-9	. . SHIELD TERMINATION		V81343	01 R
-	M85049/52S24W	. . BACKSHELL		V81349	01 R
-	MS25036-153	. . TERMINAL RING TONGUE		V70898	04 R
-	MS27488-20	. . SEALING PLUG		V96906	17 R
9183J7	MS3476W24-61SX	. PLUG FWD BKHD		V96906	01 R
-	131741-3	. . MARKER BAND		V70898	01 R
-	52672	. . FIRE RESISTANT TAPE		V02988	01 R
-	D-436-0097	. . SEALING SLEEVE		V06090	01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT		V81349	60 R
-	M83519/2-7	. . SHIELD TERMINATION		V81343	01 R
-	M83519/2-8	. . SHIELD TERMINATION		V81343	18 R
-	M85049/52S24W	. . BACKSHELL		V81349	01 R
-	MS25036-153	. . TERMINAL RING TONGUE		V70898	02 R
-	MS25036-156	. . TERMINAL RING TONGUE		V70898	02 R
9183J7 SP5	M81824/1-2	. SPLICE		V81343	01 R
-	M83519/2-8	. . SHIELD TERMINATION		V81343	03 R
9183J7 SP6	M81824/1-2	. SPLICE		V81343	01 R
9183P3	MS3476W24-61PW	. PLUG RH CB PNL		V96906	01 R
-	131741-3	. . MARKER BAND		V70898	01 R
-	52672	. . FIRE RESISTANT TAPE		V02988	01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT		V81349	61 R
-	M83519/2-8	. . SHIELD TERMINATION		V81343	20 R
-	M85049/51S24W	. . BACKSHELL		V81349	01 R
-	MS25036-149	. . TERMINAL RING TONGUE		V70898	01 R
-	MS25036-153	. . TERMINAL RING TONGUE		V70898	02 R
-	MS27488-20	. . SEALING PLUG		V96906	08 R
9183P4	MS3476W24-61P	. PLUG FWD BKHD		V96906	01 R
-	131741-3	. . MARKER BAND		V70898	01 R
-	52672	. . FIRE RESISTANT TAPE		V02988	01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT		V81349	61 R
-	M83519/2-8	. . SHIELD TERMINATION		V81343	16 R
-	M83519/2-9	. . SHIELD TERMINATION		V81343	01 R
-	M85049/51S24W	. . BACKSHELL		V81349	01 R
-	MS25036-149	. . TERMINAL RING TONGUE		V70898	01 R
-	MS25036-153	. . TERMINAL RING TONGUE		V70898	03 R
-	MS27488-20	. . SEALING PLUG		V96906	06 R
9183P7	MS3476W24-61PX	. PLUG FWD BKHD		V96906	01 R
-	131741-3	. . MARKER BAND		V70898	01 R
-	52672	. . FIRE RESISTANT TAPE		V02988	01 R
-	D-436-0096	. . SEALING SLEEVE		V06090	01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT		V81349	61 R
-	M83519/2-8	. . SHIELD TERMINATION		V81343	22 R
-	M85049/52S24W	. . BACKSHELL		V81349	01 R
-	MS25036-153	. . TERMINAL RING TONGUE		V70898	04 R

- ITEM NOT ILLUSTRATED

# BEECHCRAFT® MODEL B300/B300C FUSION WIRING DIAGRAM MANUAL



◆ PINS SHOWN ARE THE ONLY ONES  
USED IN THE CONNECTOR.

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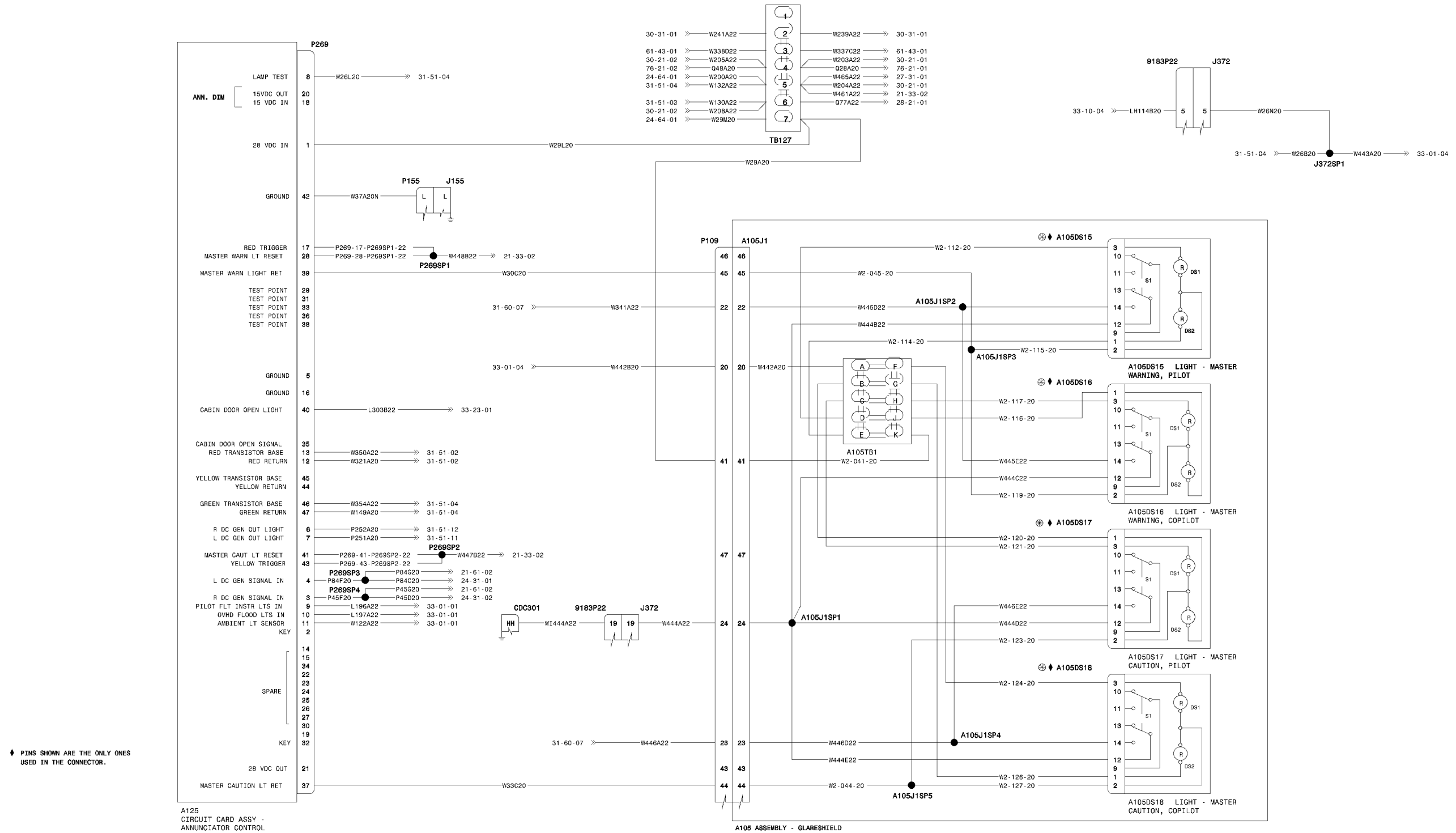
ANNUNCIATOR CONTROL  
Figure 04 (Sheet 1)

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
04		ANNUNCIATOR CONTROL	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
9183P22	206305-1	. PLUG, 23-37 AVNCS/ELEC (ZONE 232) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	193844-1	. . TERMINAL PIN CRIMP . . . . .	V00779		01 R
-	206138-1	. . BACKSHELL . . . . .	V00779		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66099-4	. . TERMINAL PIN CONTACT . . . . .	V00779		01 R
-	66103-4	. . TERMINAL PIN CONTACT . . . . .	V00779		AR R
-	66361-4	. . TERMINAL PIN CRIMP . . . . .			AR R
A105DS15	122-382088-5	. SWITCH, PUSHBUTTON MST CAUTION LT, PILOT (ZONE 249) . .	V70898		01 R
-	800-CT20	. . TERMINAL CONTACT . . . . .			05 R
A105DS16	122-382088-5	. SWITCH, PUSHBUTTON MST CAUTION LT, COPILOT (ZONE	V70898		01 R
-	800-CT20	. . TERMINAL CONTACT . . . . .			05 R
A105DS17	122-382088-7	. SWITCH, PUSHBUTTON MST CAUTION LT, PILOT (ZONE 249) . .	V70898		01 R
-	800-CT20	. . TERMINAL CONTACT . . . . .			05 R
A105DS18	122-382088-7	. SWITCH, PUSHBUTTON MST CAUTION LT, COPILOT (ZONE	V70898		01 R
-	800-CT20	. . TERMINAL CONTACT . . . . .			05 R
A105J1	M24308/2-5	. RECPTACLE, 50 SOCKET GLARESHIELD ASSY (ZONE 249) . . .	V81349		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/63-368	. . TERMINAL SOCKET CONTACT . . . . .	V81349		27 R
-	M85049/48-2-5	. . BACKSHELL . . . . .	V81349		01 R
A105J1	D-436-52	. SPLICE . . . . .	V06090		01 R
SP1					
A105J1	M81824/1-2	. SPLICE . . . . .	V81343		01 R
SP2					
A105J1	M81824/1-2	. SPLICE . . . . .	V81343		01 R
SP3					
A105J1	M81824/1-2	. SPLICE . . . . .	V81343		01 R
SP4					
A105J1	M81824/1-2	. SPLICE . . . . .	V81343		01 R
SP5					
A105TB1	M81714/2-DA1	. TERMINAL JUNCTION BLOCK ANNUN (ZONE 249) . . . . .	V81349		01 R
-	591637-1	. . TERMINAL JUNCTION . . . . .			01 R
-	M39029/1-101	. . TERMINAL PIN CONTACT . . . . .	V81349		10 R
CDC301	200838-2	. RECEPTACLE, 34 POSITION GND BLK. . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	193846-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779		01 R
-	201224-1	. . BACKSHELL . . . . .	V00779		01 R
-	201328-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779		21 R
-	203618-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
J372	206306-2	. RECEPTACLE, 23-37S AVIONICS DISC (ZONE 249/232) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	193846-1	. . SOCKET . . . . .	V00779		01 R
-	206138-8	. . BACKSHELL . . . . .	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		AR R
-	66360-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779	FL1234 FL9999	01
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898	FL1234 FL9999	01
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343	FL1234 FL9999	01 R
				FM0098FM9999	
J372SP1	M81824/1-2	. SPLICE . . . . .	V81343		01 R
P109	M24308/4-5	. PLUG, 50 PIN GLARESHIELD (ZONE 249) . . . . .			01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/64-369	. . TERMINAL PIN CONTACT . . . . .	V81349		27 R
-	M85049/48-2-5	. . BACKSHELL . . . . .	V81349		01 R

- ITEM NOT ILLUSTRATED

# BEECHCRAFT® MODEL B300/B300C FUSION WIRING DIAGRAM MANUAL



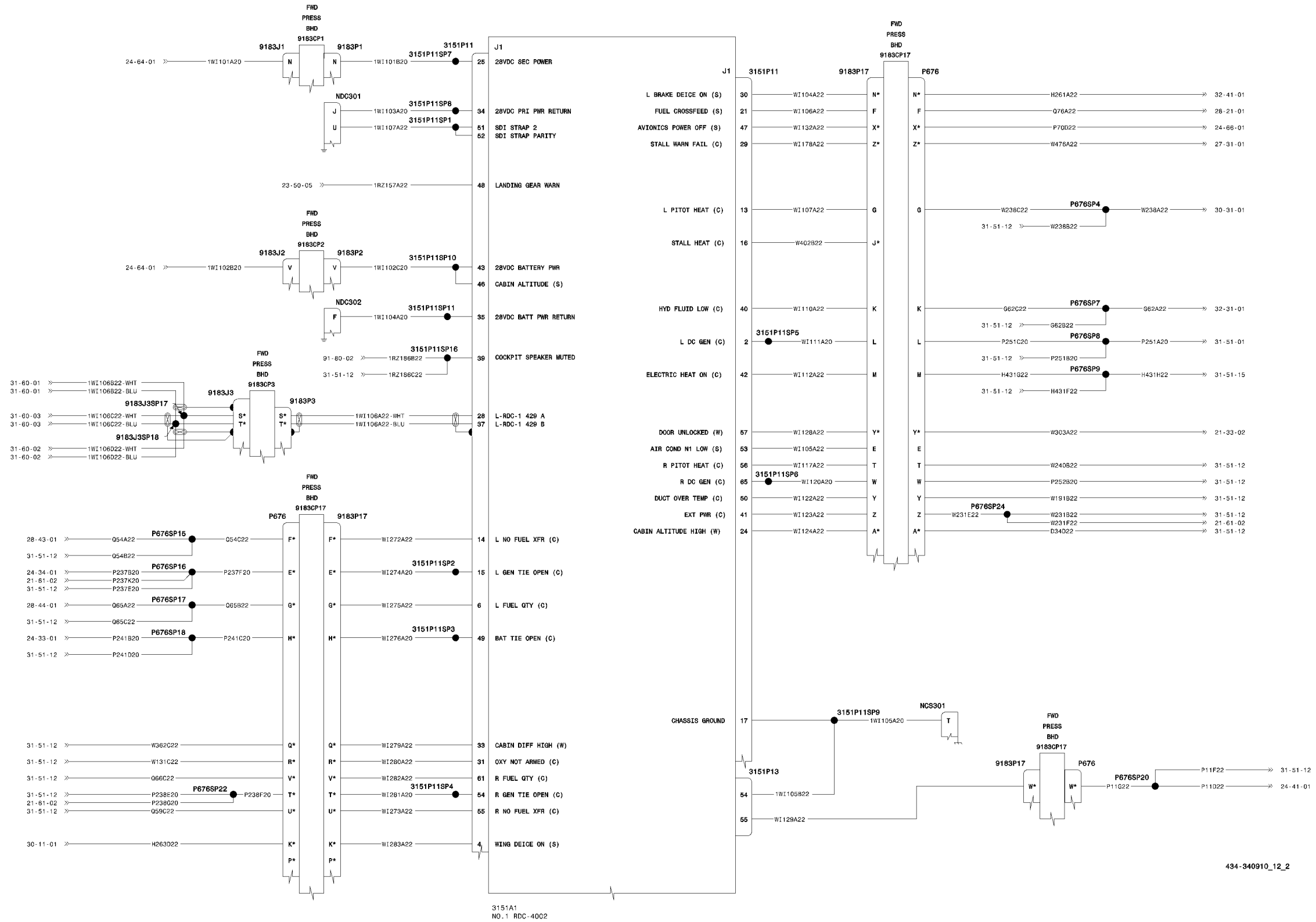
434-360034\_16\_94

ANNUNCIATOR CONTROL  
Figure 04 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY				
			FROM	TO					
			1	2	3	4	5	6	7
P155	200838-3	. RECEPTACLE, 34 POSITION RELAY GND, L (ZONE 143) . . . . .	V00779						01 R
-	131741-3	. . MARKER BAND	V70898						01 R
-	201224-1	. . BACKSHELL	V00779						01 R
-	203618-1	. . JACKSCREW	V00779						02 R
-	52672	. . FIRE RESISTANT TAPE	V02988						01 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779						25 R
P269	3-582307-1	. RECEPTACLE ANNUN CONT (ZONE 143) . . . . .							01 R
-	101-364221-19	. . DECAL	V70898						01 R
-	131741-3	. . MARKER BAND	V70898						01 R
-	1-582156-9	. . KEYING CONTACT	V00779						02 R
-	66010-2	. . TERMINAL CONTACT	V00779						21 R
P269SP1	M81824/1-2	. SPLICE . . . . .	V81343						01 R
P269SP2	M81824/1-2	. SPLICE . . . . .	V81343						01 R
P269SP3	M81824/1-2	. SPLICE . . . . .	V81343	FL1300	FL1300				01 R
				FL1307	FL9999				
				FM0110	FM9999				
P269SP4	M81824/1-2	. SPLICE . . . . .	V81343	FL1300	FL1300				01 R
				FL1307	FL9999				
				FM0110	FM9999				
TB127 LH		. TERMINAL BOARD ANNUNCIATOR PWR (ZONE 143) . . . . .							RF R
-	131741-1	. . MARKER BAND	V70898						01 R
-	MS25036-102	. . TERMINAL RING TONGUE	V70898						06 R
TB127 RH		. TERMINAL BOARD ANNUNCIATOR PWR (ZONE 143) . . . . .							RF R
-	131741-1	. . MARKER BAND	V70898						01 R
-	MS25036-102	. . TERMINAL RING TONGUE	V70898						05 R
-	MS25036-107	. . TERMINAL RING TONGUE	V70898						01 R

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**



434-340910\_12\_2

NO. 1 RDC-4002  
 Figure 05 (Sheet 1)



BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
05		NO. 1 RDC-4002			
			FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
3151P11	D38999/26FF35SN	. PLUG RDC NO. 1 . . . . .	V81349		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/56-348	. . TERMINAL SOCKET CONTACT . . . . .	V81349		AR R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		01 R
-	M85049/39S19N	. . BACKSHELL . . . . .	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS27488-22	. . SEALING PLUG . . . . .	V96906		AR R
3151P11S-	M81824/1-1	. SPLICE . . . . .	V81343		01 R
P10					
3151P11S-	M81824/1-1	. SPLICE . . . . .	V81343		01 R
P11					
3151P11S-	M81824/1-2	. SPLICE . . . . .	V81343	FL1140 FL9999	01 R
P16				FM0076FM9999	
3151P11	M81824/1-2	. SPLICE . . . . .	V81343		01 R
SP1					
3151P11	M81824/1-1	. SPLICE . . . . .	V81343		01 R
SP2					
3151P11	M81824/1-1	. SPLICE . . . . .	V81343		01 R
SP3					
3151P11	M81824/1-1	. SPLICE . . . . .	V81343		01 R
SP4					
3151P11	M81824/1-1	. SPLICE . . . . .	V81343		01 R
SP5					
3151P11	M81824/1-1	. SPLICE . . . . .	V81343		01 R
SP6					
3151P11	M81824/1-1	. SPLICE . . . . .	V81343		01 R
SP7					
3151P11	M81824/1-1	. SPLICE . . . . .	V81343		01 R
SP8					
3151P11	M81824/1-2	. SPLICE . . . . .	V81343		01 R
SP9					
3151P13	D38999/26FF35SA	. PLUG RDC NO. 1 . . . . .	V81349		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/56-348	. . TERMINAL SOCKET CONTACT . . . . .	V81349		66 R
-	M85049/39S19N	. . BACKSHELL . . . . .	V81349		01 R
-	MS27488-22	. . SEALING PLUG . . . . .	V96906		64 R
9183J16	MS3476W22-41SX	. PLUG FWD PRESS BKHD . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT . . . . .	V81349		27 R
-	M39029/5-116	. . TERMINAL SOCKET CONTACT . . . . .	V81349		12 R
-	M39029/5-117	. . TERMINAL SOCKET CONTACT . . . . .	V81349		02 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		06 R
-	M85049/52S22W	. . BACKSHELL . . . . .	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS25036-153	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS27488-16	. . SEALING PLUG . . . . .	V96906		08 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		06 R
9183J1	MS3476W22-41S	. PLUG FWD PRESS BKHD . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT . . . . .	V81349		27 R
-	M39029/5-116	. . TERMINAL SOCKET CONTACT . . . . .	V81349		14 R
-	M83519/2-10	. . SHIELD TERMINATION . . . . .	V81343		02 R
-	M85049/52S22W	. . BACKSHELL . . . . .	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS27488-16	. . SEALING PLUG . . . . .	V96906		07 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		10 R

- ITEM NOT ILLUSTRATED

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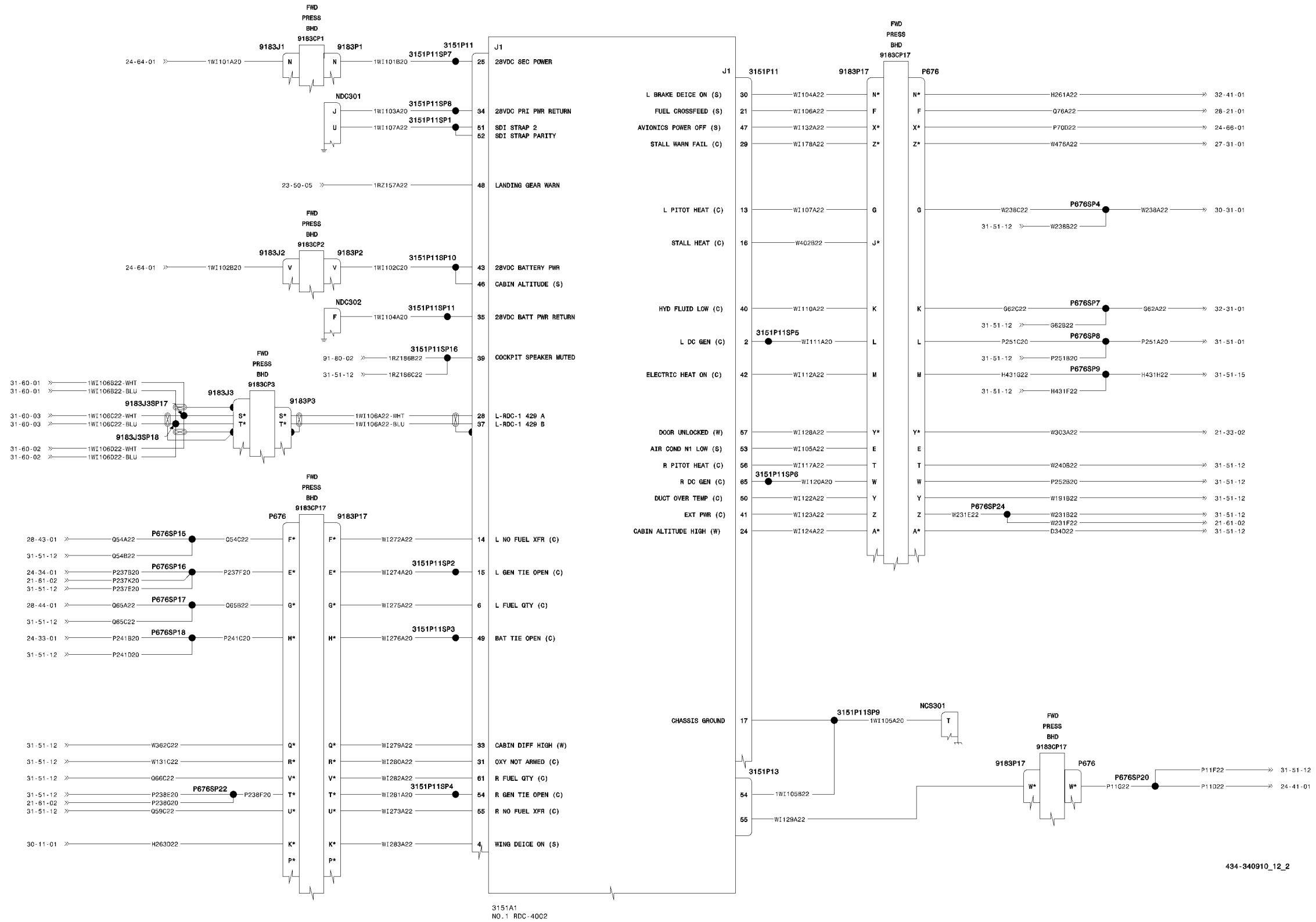
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Figure 05

Page 1

**31-51-11** Dec 02/2022

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**



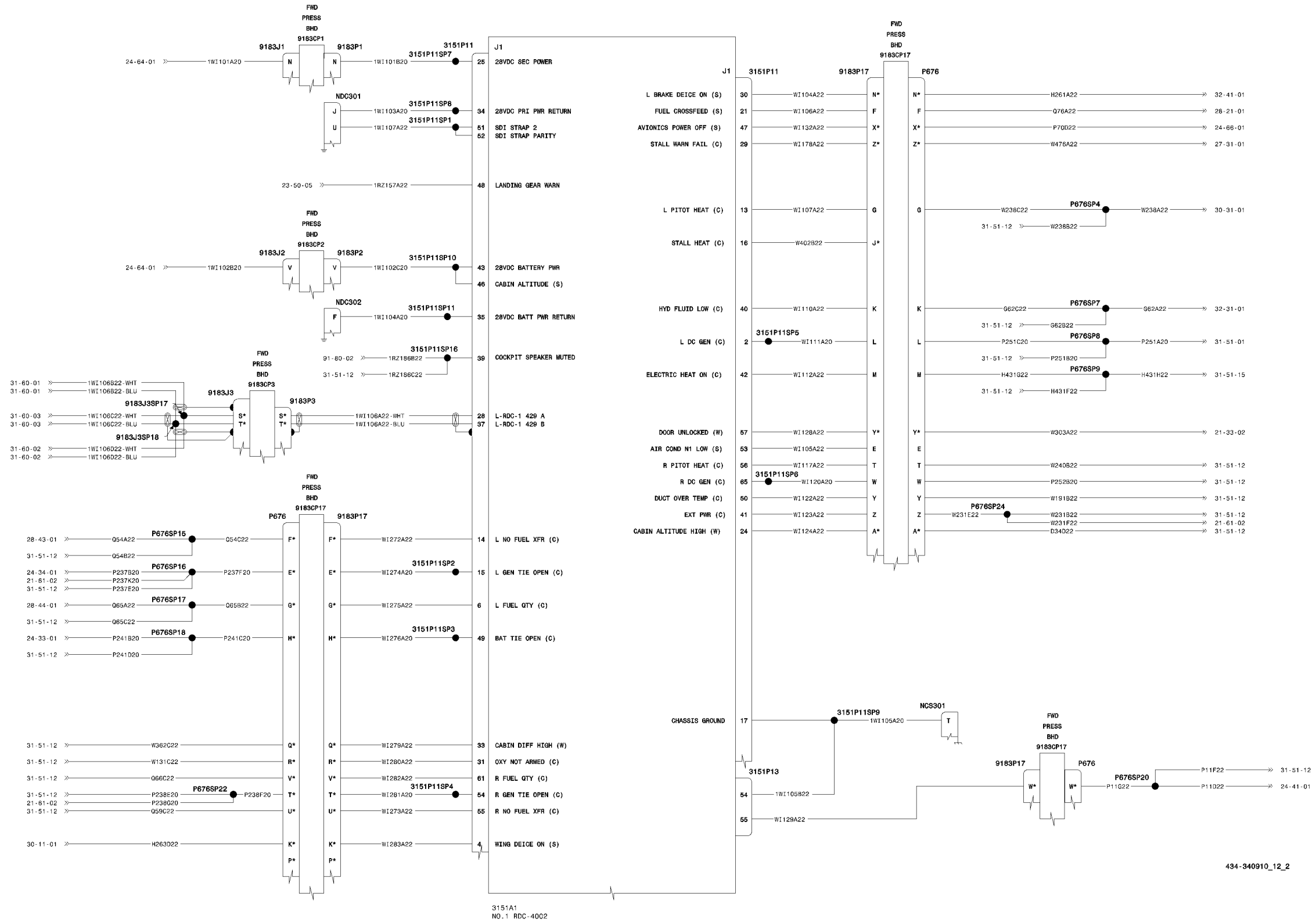
NO. 1 RDC-4002  
 Figure 05 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
9183J2	MS3476W22-41SW	. PLUG FWD PRESS BKHD . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT	V81349		27 R
-	M39029/5-116	. . TERMINAL SOCKET CONTACT	V81349		14 R
-	M83519/2-10	. . SHIELD TERMINATION	V81343		01 R
-	M83519/2-7	. . SHIELD TERMINATION	V81343		01 R
-	M85049/52S22W	. . BACKSHELL	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE	V70898		01 R
-	MS27488-16	. . SEALING PLUG	V96906		06 R
-	MS27488-20	. . SEALING PLUG	V96906		07 R
9183J3	MS3476W24-61SW	. PLUG . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT	V81349		46 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		13 R
-	M85049/52S24W	. . BACKSHELL	V81349		01 R
-	MS25036-153	. . TERMINAL RING TONGUE	V70898		02 R
-	MS25036-156	. . TERMINAL RING TONGUE	V70898		02 R
-	MS27488-20	. . SEALING PLUG	V96906		15 R
9183J3S- P17	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		03 R
9183J3S- P18	M81824/1-2	. SPLICE . . . . .	V81343		01 R
9183P16	MS3476W22-41PX	. PLUG FWD PRESS BKHD . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT	V81349		27 R
-	M39029/4-111	. . TERMINAL PIN CONTACT	V81349		11 R
-	M39029/4-112	. . TERMINAL PIN CONTACT	V81349		03 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		07 R
-	M85049/51S22W	. . BACKSHELL	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE	V70898		01 R
-	MS25036-156	. . TERMINAL RING TONGUE	V70898		01 R
-	MS27488-16	. . SEALING PLUG	V96906		08 R
-	MS27488-20	. . SEALING PLUG	V96906		07 R
9183P17	MS3476W22-55P	. PLUG PRESS BKHD . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT	V81349		55 R
-	M85049/52S22W	. . BACKSHELL	V81349		01 R
-	MS27488-20	. . SEALING PLUG	V96906		09 R
9183P1	MS3476W22-41P	. PLUG FWD PRESS BKHD . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT	V81349		27 R
-	M39029/4-111	. . TERMINAL PIN CONTACT	V81349		14 R
-	M83519/2-10	. . SHIELD TERMINATION	V81343		02 R
-	M85049/51S22W	. . BACKSHELL	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE	V70898		01 R
-	MS27488-16	. . SEALING PLUG	V96906		07 R
-	MS27488-20	. . SEALING PLUG	V96906		10 R
9183P2	MS3476W22-41PW	. PLUG FWD PRESS BKHD . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT	V81349		27 R
-	M39029/4-111	. . TERMINAL PIN CONTACT	V81349		14 R
-	M83519/2-10	. . SHIELD TERMINATION	V81343		01 R
-	M83519/2-7	. . SHIELD TERMINATION	V81343		01 R
-	M85049/51S22W	. . BACKSHELL	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE	V70898		01 R
-	MS27488-16	. . SEALING PLUG	V96906		06 R
-	MS27488-20	. . SEALING PLUG	V96906		07 R

- ITEM NOT ILLUSTRATED

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**



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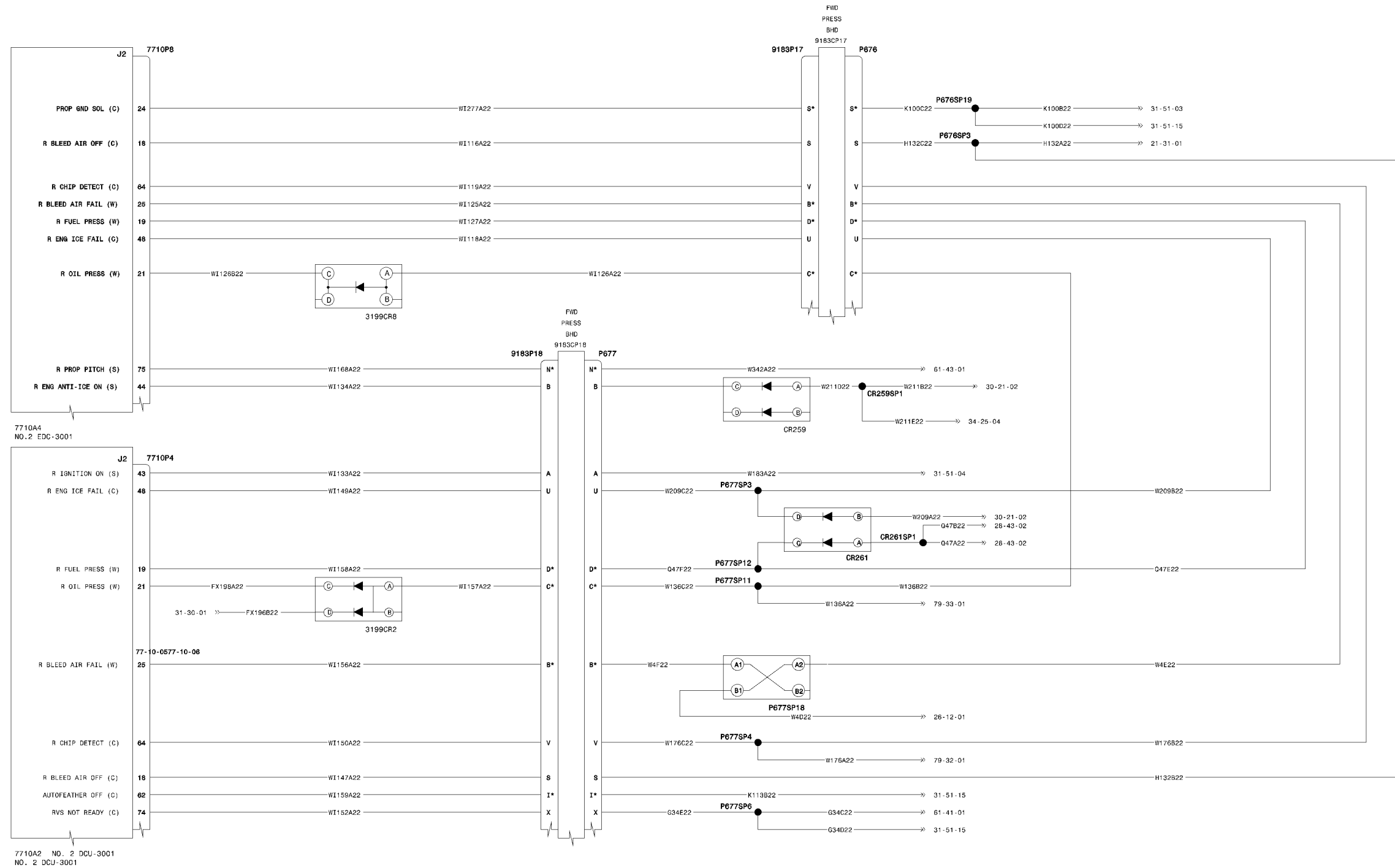
NO. 1 RDC-4002  
 Figure 05 (Sheet 1)

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
9183P3	MS3476W24-61PW	. PLUG RH CB PNL . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT . . . . .	V81349		61 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		20 R
-	M85049/51S24W	. . BACKSHELL . . . . .	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS25036-153	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		08 R
NCS301	200838-2	. RECEPTACLE, 34 POSITION GND BLK. . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	201224-1	. . BACKSHELL . . . . .	V00779		01 R
-	201328-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779		29 R
-	202508-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779		04 R
-	203618-1	. . JACKSCREW . . . . .	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
NDC301	200838-2	. RECEPTACLE, 34 POSITION GND BLK. . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	201224-1	. . BACKSHELL . . . . .	V00779		01 R
-	201328-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779		24 R
-	202508-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779		08 R
-	203618-1	. . JACKSCREW . . . . .	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
NDC302	200838-2	. RECEPTACLE, 34 POSITION GND BLK. . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	201224-1	. . BACKSHELL . . . . .	V00779		01 R
-	201328-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779		14 R
-	203618-1	. . JACKSCREW . . . . .	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
P676	MS3476W22-55S	. PLUG . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT . . . . .	V81349		55 R
-	M85049/51S22W	. . BACKSHELL . . . . .	V81349		01 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		10 R
P676SP15	M81824/1-2	. SPLICE . . . . .	V81343		01 R
P676SP16	M81824/1-2	. SPLICE . . . . .	V81343		01 R
P676SP17	M81824/1-2	. SPLICE . . . . .	V81343		01 R
P676SP18	M81824/1-2	. SPLICE . . . . .	V81343		01 R
P676SP20	M81824/1-2	. SPLICE . . . . .	V81343		01 R
P676SP22	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
P676SP24	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
P676SP4	M81824/1-2	. SPLICE . . . . .	V81343		01 R
P676SP7	M81824/1-2	. SPLICE . . . . .	V81343		01 R
P676SP8	M81824/1-2	. SPLICE . . . . .	V81343		01 R
P676SP9	M81824/1-2	. SPLICE . . . . .	V81343		01 R

- ITEM NOT ILLUSTRATED

**BEECHCRAFT®  
MODEL B300/B300C FUSION  
WIRING DIAGRAM MANUAL**



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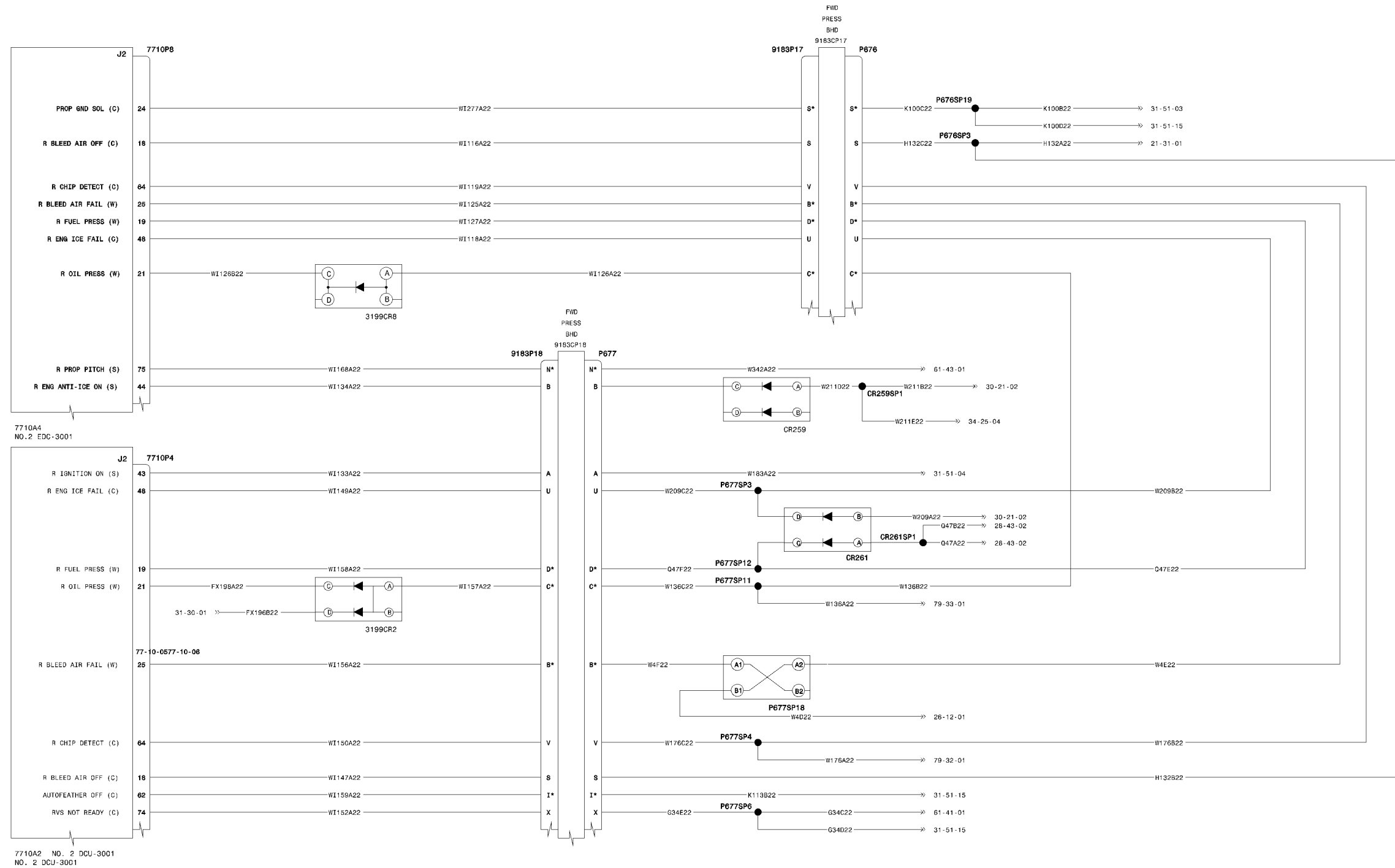
NO. 2 EDC & DCU  
Figure 05 (Sheet 1)

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
05		NO. 2 EDC & DCU			
			FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
3199CR2	TJSE20707	. TERMINAL JUNCTION . . . . .	V58982	FL1140	FL9999 01 R
				FM0076	FM9999
3199CR8	TJSE20701	. TERMINAL JUNCTION . . . . .	V58982	FL1140	FL9999 01 R
				FM0076	FM9999
7710P4	D38999/26FG35SB	. PLUG DATA CONCENTRATOR UNIT (DCU-3001) . . . . .	V81349		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/56-348	. . TERMINAL SOCKET CONTACT . . . . .	V81349		77 R
-	M39029/88-483	. . TERMINAL SOCKET CONTACT ALUMEL . . . . .	V81349		01 R
-	M39029/88-484	. . TERMINAL SOCKET CONTACT CHROMEL . . . . .	V81349		01 R
-	M85049/39S21N	. . BACKSHELL . . . . .	V81349		01 R
-	MS25036-153	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
-	MS27488-22	. . SEALING PLUG . . . . .	V96906		40 R
7710P8	D38999/26FG35SB	. PLUG ENG DATA CONCENTRATOR (EDC-3001) . . . . .	V81349		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/56-348	. . TERMINAL SOCKET CONTACT . . . . .	V81349		07 R
-	M39029/88-483	. . TERMINAL SOCKET CONTACT ALUMEL . . . . .	V81349		01 R
-	M39029/88-484	. . TERMINAL SOCKET CONTACT CHROMEL . . . . .	V81349		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		06 R
-	M85049/39S21N	. . BACKSHELL . . . . .	V81349		01 R
-	MS25036-153	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS27488-22	. . SEALING PLUG . . . . .	V96906		49 R
9183P17	MS3476W22-55P	. PLUG PRESS BKHD. . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT . . . . .	V81349		55 R
-	M85049/52S22W	. . BACKSHELL . . . . .	V81349		01 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		09 R
9183P18	MS3476W22-55PW	. PLUG PRESS BKHD. . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT . . . . .	V81349		55 R
-	M85049/52S22W	. . BACKSHELL . . . . .	V81349		01 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		08 R
CR259	TJSE20702	. TERMINAL JUNCTION . . . . .	V58982		01 R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	M39029/1-101	. . TERMINAL PIN CONTACT . . . . .	V81349		02 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		02 R
CR259 SP1	M81824/1-2	. SPLICE . . . . .	V81343	FL1300	FL1300 01 R
				FL1307	FL9999
				FM0110	FM9999
CR261	TJSE20702	. TERMINAL JUNCTION . . . . .	V58982		01 R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	M39029/1-101	. . TERMINAL PIN CONTACT . . . . .	V81349		04 R
CR261 SP1	M81824/1-2	. SPLICE . . . . .	V81343		01 R
P676	MS3476W22-55S	. PLUG . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT . . . . .	V81349		55 R
-	M85049/51S22W	. . BACKSHELL . . . . .	V81349		01 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		10 R
P676SP19	M81824/1-2	. SPLICE . . . . .	V81343		01 R
P676SP3	M81824/1-2	. SPLICE . . . . .	V81343	FL1140	FL9999 01 R
				FM0076	FM9999
P677	MS3476W22-55SW	. PLUG . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT . . . . .	V81349		55 R
-	M85049/52S22W	. . BACKSHELL . . . . .	V81349		01 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		09 R
P677SP11	M81824/1-2	. SPLICE . . . . .	V81343		01 R

- ITEM NOT ILLUSTRATED

**BEECHCRAFT®  
MODEL B300/B300C FUSION  
WIRING DIAGRAM MANUAL**



434-340910\_12\_5

NO. 2 EDC & DCU  
Figure 05 (Sheet 1)



BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY FROM TO	UNITS
				PER ASSY
		1 2 3 4 5 6 7		
P677SP12	M81824/1-2	. SPLICE .....	V81343	01 R
P677SP18	M81714/12-22D-1	. TERMINAL JUNCTION BLOCK .....	V81349	01 R
			FL1140 FL9999 FM0076FM9999	
-	131741-1	. . MARKER BAND	V70898	01 R
-	M39029/1-100	. . TERMINAL PIN CONTACT	V81349	03 R
-	MS27488-22	. . SEALING PLUG	V96906	01 R
P677SP3	M81824/1-2	. SPLICE .....	V81343	01 R
P677SP4	M81824/1-2	. SPLICE .....	V81343	01 R
P677SP6	M81824/1-2	. SPLICE .....	V81343	01 R

- ITEM NOT ILLUSTRATED

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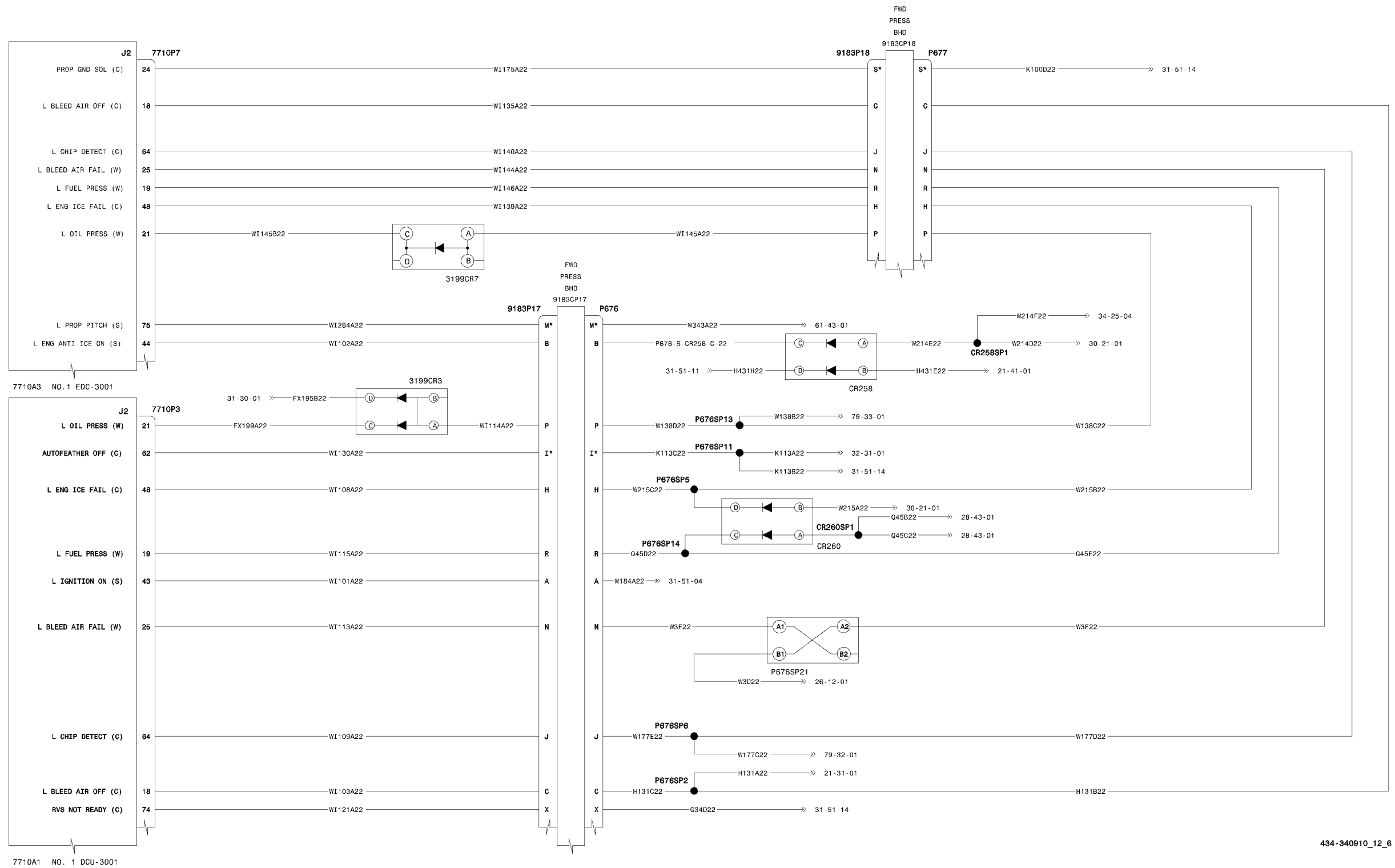
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Figure 05

Page 3

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# BEECHCRAFT® MODEL B300/B300C FUSION WIRING DIAGRAM MANUAL



434-340910\_12\_6

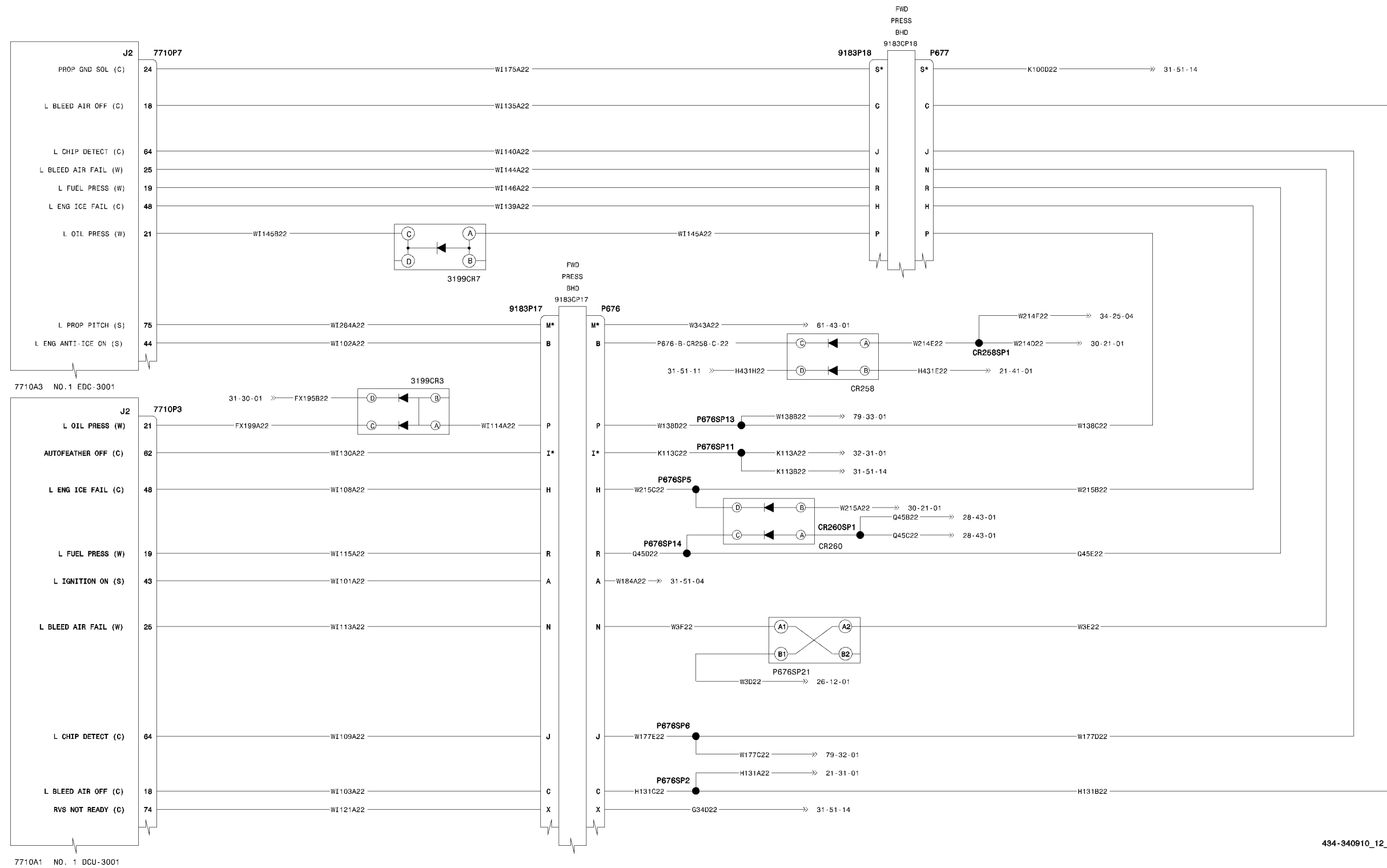
NO. 1 EDC & DCU  
Figure 05 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
05		NO. 1 EDC & DCU			
			FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
3199CR3	TJSE20707	. TERMINAL JUNCTION . . . . .	V58982	FL1140	FL9999 01 R
				FM0076	FM9999
3199CR7	TJSE20701	. TERMINAL JUNCTION . . . . .	V58982	FL1140	FL9999 01 R
				FM0076	FM9999
7710P3	D38999/26FG35SB	. PLUG DATA CONCENTRATOR UNIT (DCU-3001) . . . . .	V81349		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/56-348	. . TERMINAL SOCKET CONTACT . . . . .	V81349		77 R
-	M39029/88-483	. . TERMINAL SOCKET CONTACT ALUMEL . . . . .	V81349		01 R
-	M39029/88-484	. . TERMINAL SOCKET CONTACT CHROMEL . . . . .	V81349		01 R
-	M85049/39S21N	. . BACKSHELL . . . . .	V81349		01 R
-	MS25036-153	. . TERMINAL RING TONGUE . . . . .	V70898		03 R
-	MS27488-22	. . SEALING PLUG . . . . .	V96906		40 R
7710P7	D38999/26FG35SB	. PLUG ENG DATA CONCENTRATOR (EDC-3001) . . . . .	V81349		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/56-348	. . TERMINAL SOCKET CONTACT . . . . .	V81349		77 R
-	M39029/88-483	. . TERMINAL SOCKET CONTACT ALUMEL . . . . .	V81349		01 R
-	M39029/88-484	. . TERMINAL SOCKET CONTACT CHROMEL . . . . .	V81349		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		06 R
-	M85049/39S21N	. . BACKSHELL . . . . .	V81349		01 R
-	MS25036-153	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS27488-22	. . SEALING PLUG . . . . .	V96906		51 R
9183P17	MS3476W22-55P	. PLUG PRESS BKHD. . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT . . . . .	V81349		55 R
-	M85049/52S22W	. . BACKSHELL . . . . .	V81349		01 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		09 R
9183P18	MS3476W22-55PW	. PLUG PRESS BKHD. . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT . . . . .	V81349		55 R
-	M85049/52S22W	. . BACKSHELL . . . . .	V81349		01 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		08 R
CR258	TJSE20702	. TERMINAL JUNCTION . . . . .	V58982		01 R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	M39029/1-101	. . TERMINAL PIN CONTACT . . . . .	V81349		04 R
-	MS27488-20	. . SEALING PLUG . . . . .			AR R
CR258 SP1	M81824/1-2	. SPLICE . . . . .	V81343	FL1300	FL1300 01 R
				FL1307	FL9999
				FM0110	FM9999
CR260	TJSE20702	. TERMINAL JUNCTION . . . . .	V58982		01 R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	M39029/1-101	. . TERMINAL PIN CONTACT . . . . .	V81349		04 R
CR260 SP1	M81824/1-2	. SPLICE . . . . .	V81343		01 R
P676	MS3476W22-55S	. PLUG . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT . . . . .	V81349		55 R
-	M85049/51S22W	. . BACKSHELL . . . . .	V81349		01 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		10 R
P676SP11	M81824/1-2	. SPLICE . . . . .	V81343		01 R
P676SP13	M81824/1-2	. SPLICE . . . . .	V81343		01 R
P676SP14	M81824/1-2	. SPLICE . . . . .	V81343		01 R
P676SP21	M81714/12-22D-1	. TERMINAL JUNCTION BLOCK . . . . .	V81349	FL1140	FL9999 01 R
				FM0076	FM9999
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	M39029/1-100	. . TERMINAL PIN CONTACT . . . . .	V81349		03 R
-	MS27488-22	. . SEALING PLUG . . . . .	V96906		01 R
P676SP2	M81824/1-2	. SPLICE . . . . .	V81343		01 R
P676SP5	M81824/1-2	. SPLICE . . . . .	V81343		01 R

- ITEM NOT ILLUSTRATED

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



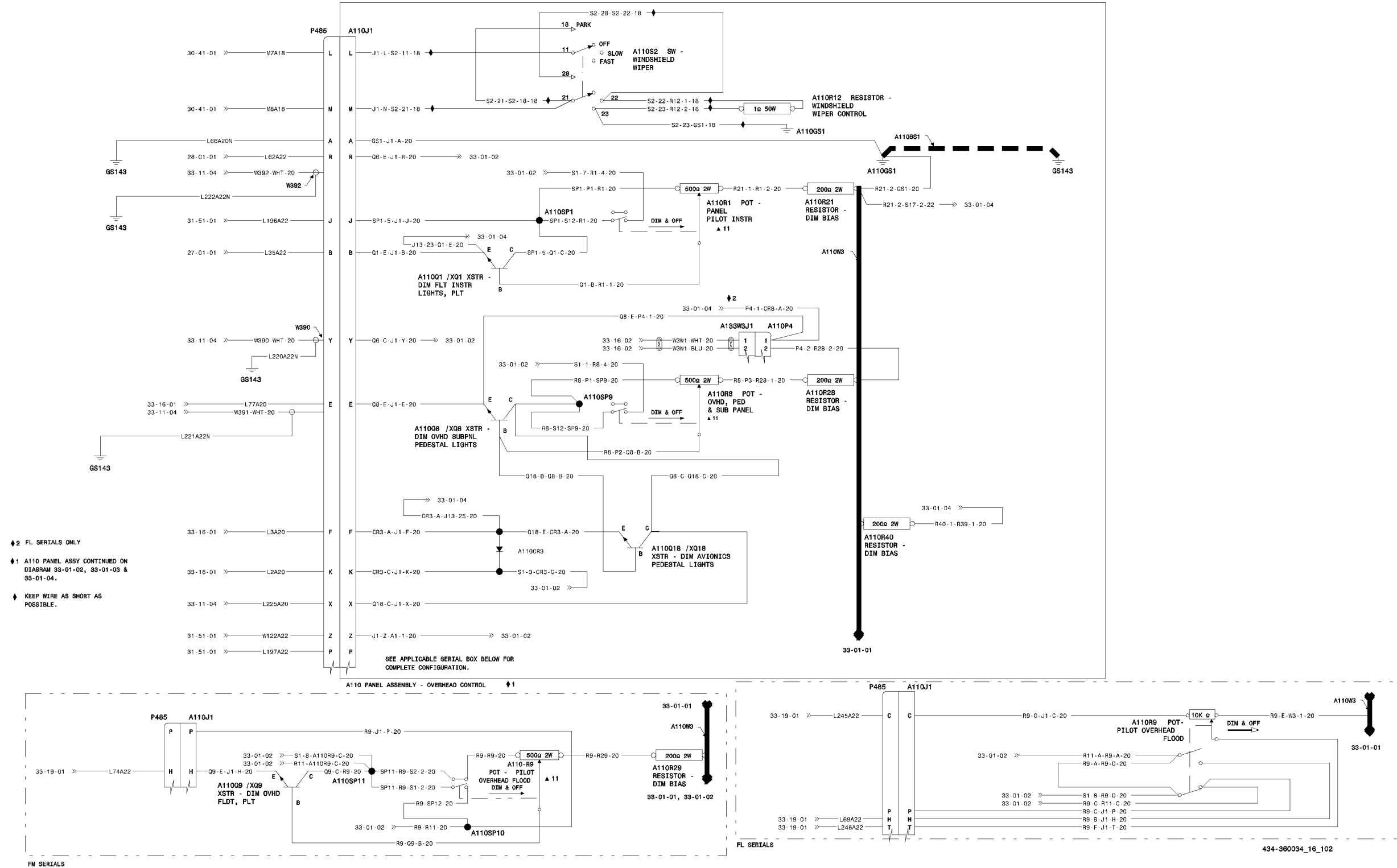
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NO. 1 EDC & DCU  
 Figure 05 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
			1	2	3
P676SP6	M81824/1-2	. SPLICE .....	V81343		01 R
P677	MS3476W22-55SW	. PLUG .....	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT	V81349		55 R
-	M85049/52S22W	. . BACKSHELL	V81349		01 R
-	MS27488-20	. . SEALING PLUG	V96906		09 R

# BEECHCRAFT® MODEL B300/B300C FUSION WIRING DIAGRAM MANUAL



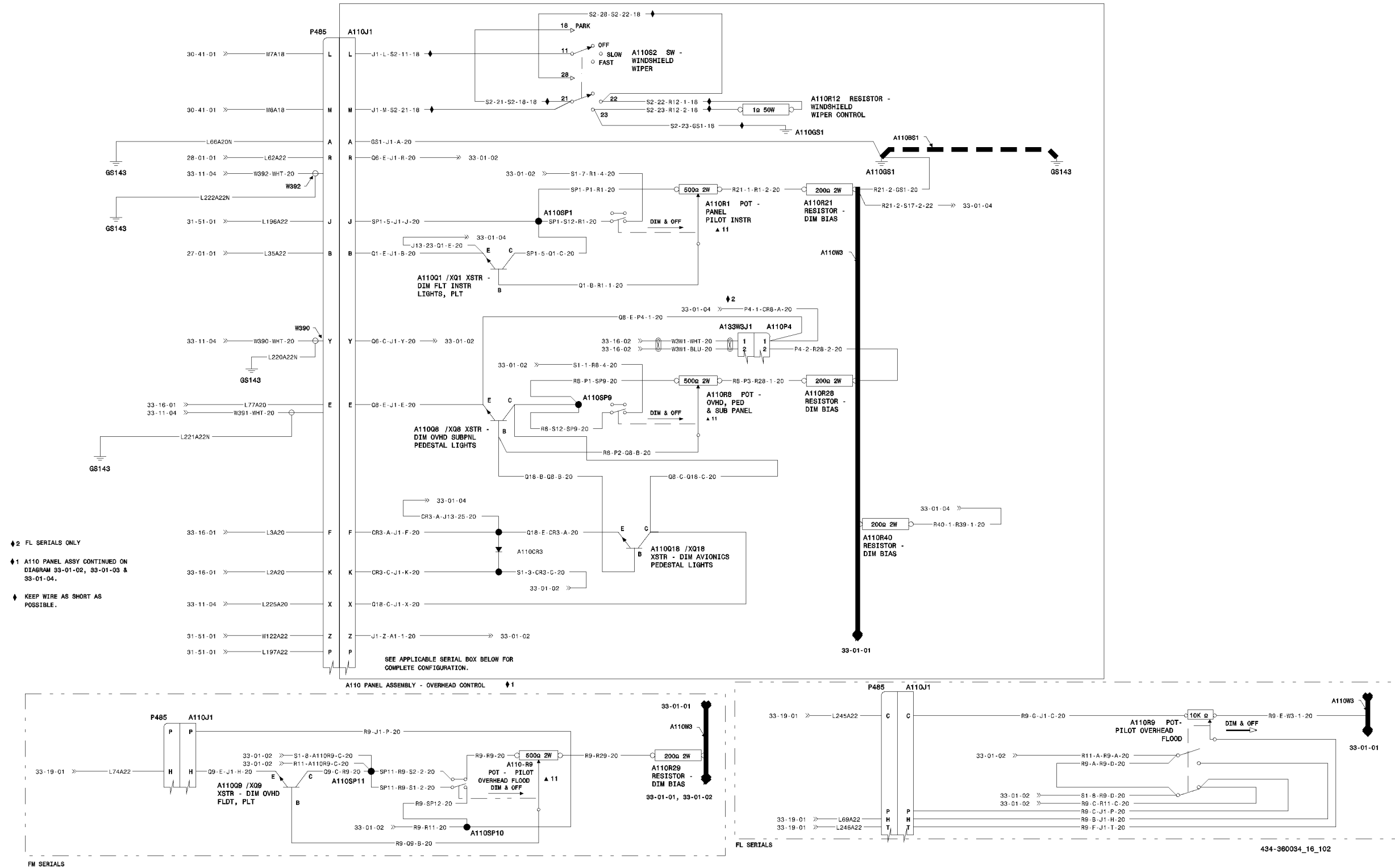
PANEL ASSEMBLY - OVERHEAD CONTROL  
Figure 04 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
04		PANEL ASSEMBLY - OVERHEAD CONTROL	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
A110CR3		. DIODE (ZONE 253) . . . . .			RF R
A110GS1		. GROUND STUD (ZONE 253) . . . . .			RF R
-	MS25036-103	. . . TERMINAL RING TONGUE	V70898		01 R
-	MS25036-108	. . . TERMINAL RING TONGUE	V70898	FL1077	FL1077
				FL1080	FL9999
				FM0071	FM9999
A110J1	200838-3	. RECEPTACLE, 34 POSITION OVRHD LT CONT PNL, L (ZONE 253) . . . . .	V00779		01 R
-	131741-3	. . . MARKER BAND	V70898		01 R
-	66099-4	. . . TERMINAL PIN CONTACT	V00779		06 R
-	66103-4	. . . TERMINAL PIN CONTACT	V00779		25 R
-	M83519/2-8	. . . SHIELD TERMINATION	V81343		02 R
A110P4	1-480698-0	. PLUG, 2 CIRCUIT OVRHD INSTR PNL EDGELIGHT (ZONE 253) . . . . .	V00779		01 R
-	131741-3	. . . MARKER BAND	V70898		01 R
-	350550-1	. . . TERMINAL SOCKET CONTACT	V00779		01 R
-	350689-1	. . . TERMINAL SOCKET CONTACT	V00779		01 R
A110Q18		. TRANSISTOR AVIONICS PED LTS (ZONE 243) . . . . .			RF R
-	106242-3	. . . TUBE EXTRUDED INSULATING	V70898		03 R
-	SOLDER	. . . TERMINAL CONTACT			03 R
A110Q1		. TRANSISTOR DIM FLT INSTR LIGHTS PLT (ZONE 253) . . . . .			RF R
-	106242-3	. . . TUBE EXTRUDED INSULATING	V70898		03 R
-	SOLDER	. . . TERMINAL CONTACT			03 R
A110Q8		. TRANSISTOR DIM OVRHD SUBPANEL & PED LTS (ZONE 253) . . . . .			RF R
-	106242-3	. . . TUBE EXTRUDED INSULATING	V70898		03 R
-	SOLDER	. . . TERMINAL CONTACT			03 R
A110Q9		. TRANSISTOR DIM OVRHD FLDT, PILOT (ZONE 253) . . . . .			RF R
		FM SERIALS ONLY			
-	106242-3	. . . TUBE EXTRUDED INSULATING	V70898		03 R
-	SOLDER	. . . TERMINAL CONTACT			03 R
A110R12		. RESISTOR WSHLD WIPER CONT (ZONE 253) . . . . .			RF R
-	106242C42	. . . HEATSHRINK	V70898		02 R
-	SOLDER	. . . TERMINAL CONTACT			02 R
A110R1		. POTENTIOMETER DIM CONT FLT INSTR LIGHTS, PILOT (ZONE 253) . . . . .			RF R
-	106242C42	. . . HEATSHRINK	V70898		05 R
-	SOLDER	. . . TERMINAL CONTACT			05 R
A110R21-1		. RESISTOR DIM BIAS (ZONE 253) . . . . .			RF R
-	SOLDER	. . . TERMINAL CONTACT			01 R
A110R21-2		. RESISTOR DIM BIAS (ZONE 253) . . . . .			RF R
-	SOLDER	. . . TERMINAL CONTACT			01 R
A110R28-1		. RESISTOR DIM BIAS (ZONE 253) . . . . .			RF R
-	SOLDER	. . . TERMINAL CONTACT			01 R
A110R28-2		. RESISTOR DIM BIAS (ZONE 253) . . . . .			RF R
-	SOLDER	. . . TERMINAL CONTACT			01 R
A110R29-1		. RESISTOR DIM BIAS OVRHD FLDT, PILOT (ZONE 253) . . . . .			RF R
		FM SERIALS ONLY			
-	SOLDER	. . . TERMINAL CONTACT			01 R
A110R40-1		. RESISTOR DIM BIAS . . . . .			RF R
-	SOLDER	. . . TERMINAL CONTACT			01 R
A110R40-1-V1		. RESISTOR DIM BIAS . . . . .			RF R
A110R8		. POTENTIOMETER DIM CONT OVHD SUBPANEL & PED LIGHTS (ZONE 253) . . . . .			RF R
-	106242C42	. . . HEATSHRINK	V70898		05 R
-	SOLDER	. . . TERMINAL CONTACT			05 R
A110R9		. POTENTIOMETER DIM CONT FLDT, PILOT (ZONE 253) . . . . .			RF R
		FL SERIALS ONLY			
-	106242C42	. . . HEATSHRINK	V70898		06 R
-	SOLDER	. . . TERMINAL CONTACT			06 R

- ITEM NOT ILLUSTRATED

# BEECHCRAFT® MODEL B300/B300C FUSION WIRING DIAGRAM MANUAL



PANEL ASSEMBLY - OVERHEAD CONTROL  
Figure 04 (Sheet 1)



BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
A110-R9		. POTENTIOMETER DIM CONT FLDT, PILOT . . . . .			RF R
		FM SERIALS ONLY			
-	106242C42	. . HEATSHRINK	V70898		06 R
-	SOLDER	. . TERMINAL CONTACT			06 R
A110S2		. SWITCH WSHLD WIPER (ZONE 253) . . . . .			RF R
-	MS25036-102S	. . TERMINAL RING TONGUE	V70898		03 R
-	MS25036-107S	. . TERMINAL RING TONGUE	V70898		03 R
GS143		. GROUND STUD OVRHD CONT PNL (ZONE 253) . . . . .			RF R
-	131741-1	. . MARKER BAND	V70898		01 R
-	MS25036-103	. . TERMINAL RING TONGUE	V70898		02 R
P485	201357-3	. PLUG, 34 POSITION OVRHD CONT PNL, L (ZONE 253) . . . . .			01 R
-	1-200833-1	. . GUIDE PIN			01 R
-	1-200835-1	. . GUIDE PIN			01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	200874-2	. . JACKSCREW	V00779		01 R
-	200875-2	. . JACKSCREW	V00779		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT	V00779		08 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		16 R
-	M83519/1-3	. . SHIELD TERMINATION	V81343		03 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		01 R

- ITEM NOT ILLUSTRATED

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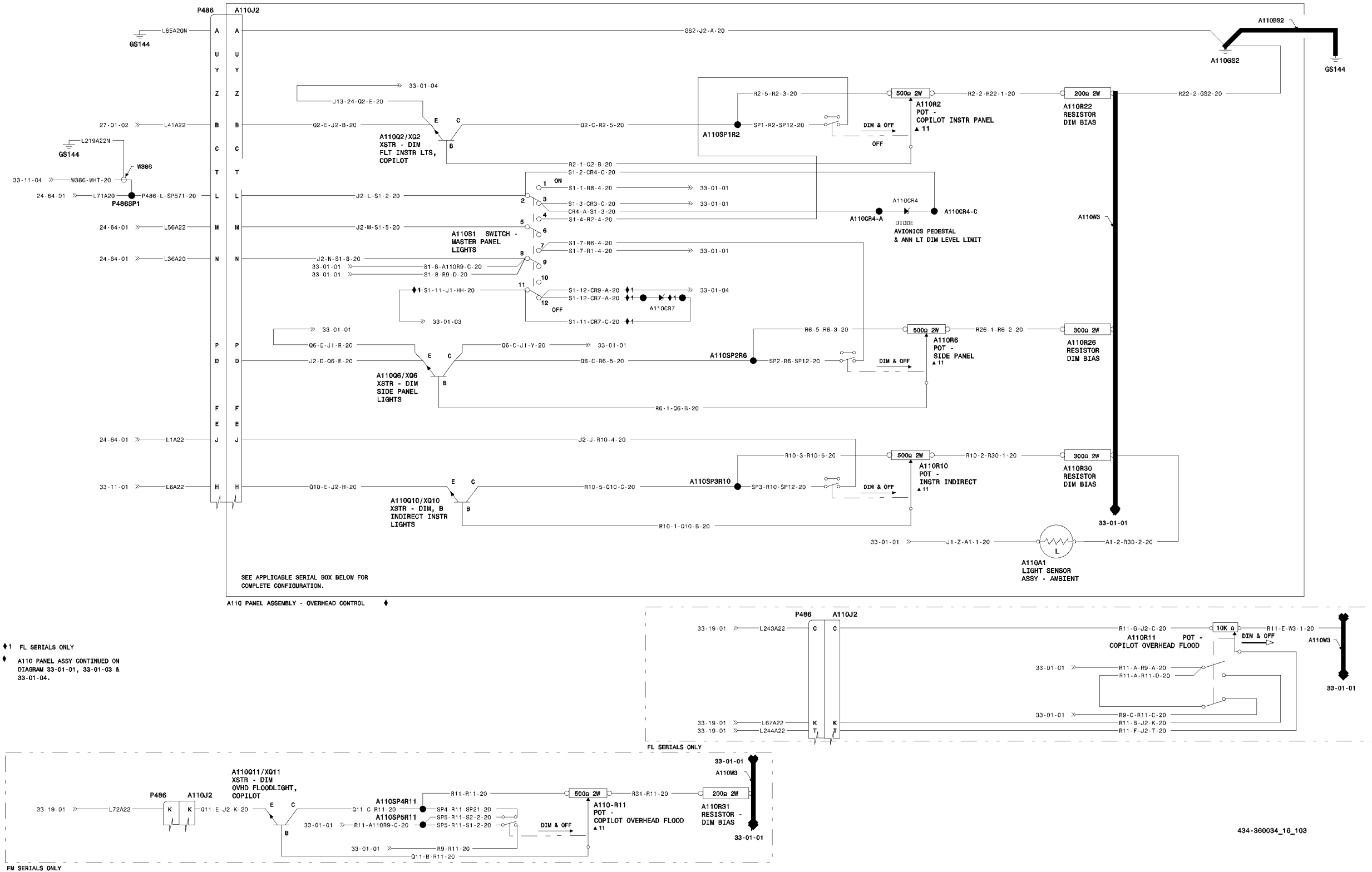
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Figure 04

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**33-01-01** Dec 02/2022

**BEECHCRAFT®  
MODEL B300/B300C FUSION  
WIRING DIAGRAM MANUAL**



PANEL ASSEMBLY - OVERHEAD CONTROL  
Figure 03 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
03		PANEL ASSEMBLY - OVERHEAD CONTROL	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
A110A1		. LIGHT SENSOR AMBIENT (ZONE 243) . . . . .			RF R
-	106242C42	. . HEATSHRINK . . . . .	V70898		02 R
-	SOLDER	. . TERMINAL CONTACT . . . . .			02 R
A110CR4		. DIODE . . . . .			RF R
-	106242C43	. . HEATSHRINK ANODE . . . . .	V70898		01 R
A110CR7		. ZENER DIODE (ZONE 253) . . . . .			RF R
A110GS2		. GROUND STUD (ZONE 253) . . . . .			RF R
-	MS25036-108	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
A110J2	200838-3	. RECEPTACLE, 34 POSITION OVRHD LT CONT PNL, R (ZONE 253) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	66099-4	. . TERMINAL PIN CONTACT . . . . .	V00779		01 R
-	66103-4	. . TERMINAL PIN CONTACT . . . . .	V00779		22 R
A110Q10		. TRANSISTOR DIM B INDIRECT INSTR LIGHTS (ZONE 253) . . . . .			RF R
-	106242-3	. . TUBE EXTRUDED INSULATING . . . . .	V70898		03 R
-	SOLDER	. . TERMINAL CONTACT . . . . .			03 R
A110Q11		. TRANSISTOR DIM OVRHD FLDT, COPILOT (ZONE 253) . . . . . FM SERIALS ONLY			RF R
-	106242-3	. . TUBE EXTRUDED INSULATING . . . . .	V70898		03 R
-	SOLDER	. . TERMINAL CONTACT . . . . .			03 R
A110Q2		. TRANSISTOR DIM FLT INSTR LTS, COPILOT (ZONE 253) . . . . .			RF R
-	106242-3	. . TUBE EXTRUDED INSULATING . . . . .	V70898		03 R
-	SOLDER	. . TERMINAL CONTACT . . . . .			03 R
A110Q6		. TRANSISTOR DIM SIDE PNL LTS (ZONE 253) . . . . .			RF R
-	106242-3	. . TUBE EXTRUDED INSULATING . . . . .	V70898		03 R
-	SOLDER	. . TERMINAL CONTACT . . . . .			03 R
A110R10		. POTENTIOMETER DIM CONT INDIRECT INSTR LIGHTS (ZONE 253) . . . . .			RF R
-	106242C42	. . HEATSHRINK . . . . .	V70898		05 R
-	SOLDER	. . TERMINAL CONTACT . . . . .			05 R
A110R11		. POTENTIOMETER DIM CONT OVRHD FLDT, COPILOT (ZONE 253) . . . . . FL SERIALS ONLY			RF R
-	106242C42	. . HEATSHRINK . . . . .	V70898		06 R
-	SOLDER	. . TERMINAL CONTACT . . . . .			06 R
A110-R11		. POTENTIOMETER DIM CONT OVRHD FLDT, COPILOT . . . . . FM SERIALS ONLY			RF R
-	106242C42	. . HEATSHRINK . . . . .	V70898		06 R
-	SOLDER	. . TERMINAL CONTACT . . . . .			06 R
A110R22-1		. RESISTOR DIM BIAS (ZONE 253) . . . . .			RF R
-	SOLDER	. . TERMINAL CONTACT . . . . .			01 R
A110R22-2		. RESISTOR DIM BIAS (ZONE 253) . . . . .			RF R
-	SOLDER	. . TERMINAL CONTACT . . . . .			01 R
A110R26-1		. RESISTOR DIM BIAS (ZONE 253) . . . . .			RF R
-	SOLDER	. . TERMINAL CONTACT . . . . .			01 R
A110R2		. POTENTIOMETER DIM CONT FLT INSTR LTS, COPILOT (ZONE 253) . . . . .			RF R
-	106242C42	. . HEATSHRINK . . . . .	V70898		05 R
-	SOLDER	. . TERMINAL CONTACT . . . . .			05 R
A110R30-1		. RESISTOR DIM BIAS (ZONE 253) . . . . .			RF R
-	SOLDER	. . TERMINAL CONTACT . . . . .			01 R
A110R30-2		. RESISTOR DIM BIAS (ZONE 253) . . . . .			RF R
-	SOLDER	. . TERMINAL CONTACT . . . . .			01 R
A110R31-1		. RESISTOR DIM BIAS OVRHD FLDT, COPILOT (ZONE 253) . . . . . FM SERIALS ONLY			RF R
-	SOLDER	. . TERMINAL CONTACT . . . . .			01 R
A110R6		. POTENTIOMETER DIM CONT SIDE PNL LTS (ZONE 253) . . . . .			RF R
-	106242C42	. . HEATSHRINK . . . . .	V70898		05 R
-	SOLDER	. . TERMINAL CONTACT . . . . .			05 R
A110S1		. SWITCH, TOGGLE ANNUN TEST (ZONE 253) . . . . .			RF R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898		09 R

- ITEM NOT ILLUSTRATED

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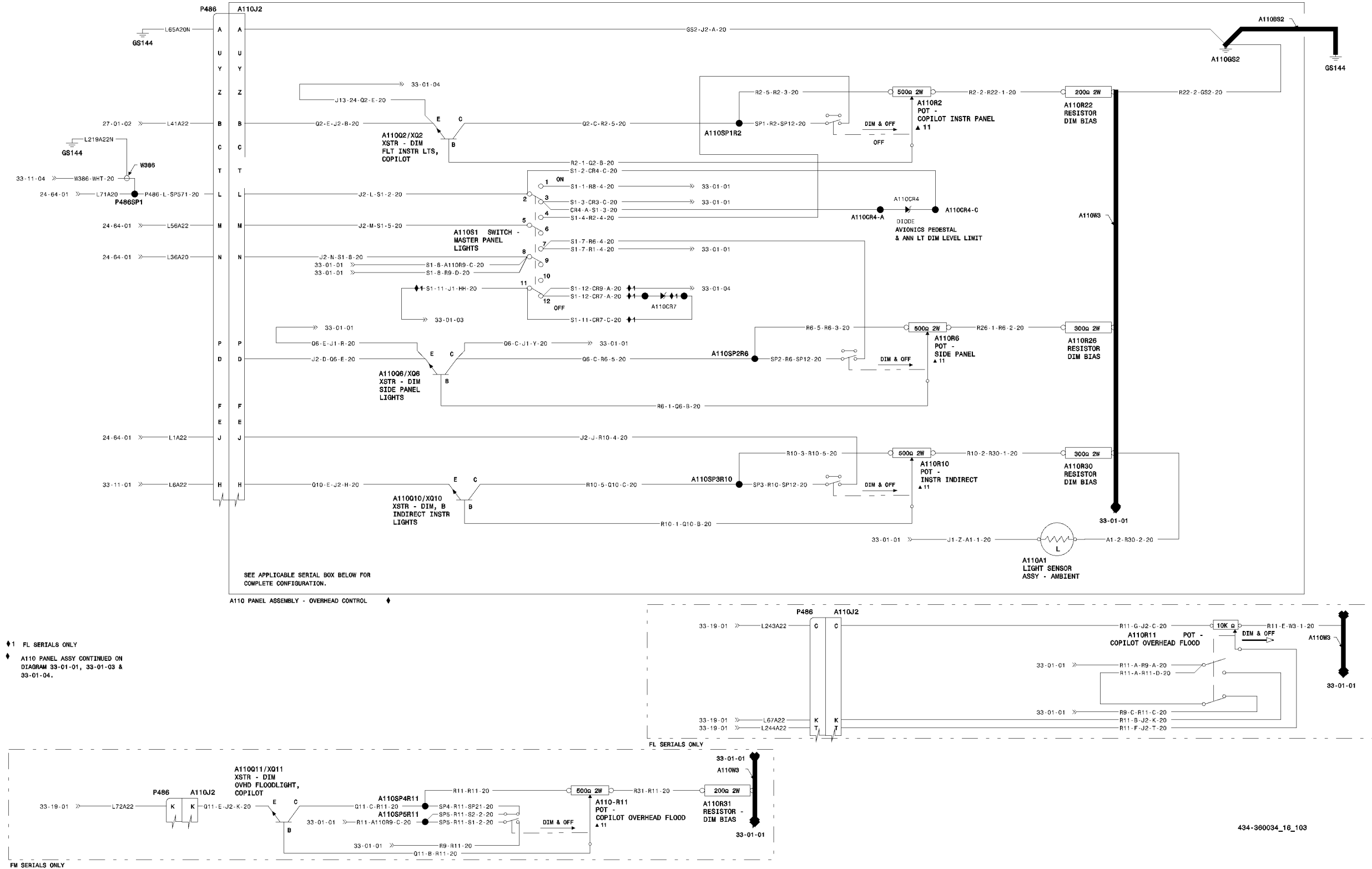
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Figure 03

Page 1

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**BEECHCRAFT®  
MODEL B300/B300C FUSION  
WIRING DIAGRAM MANUAL**

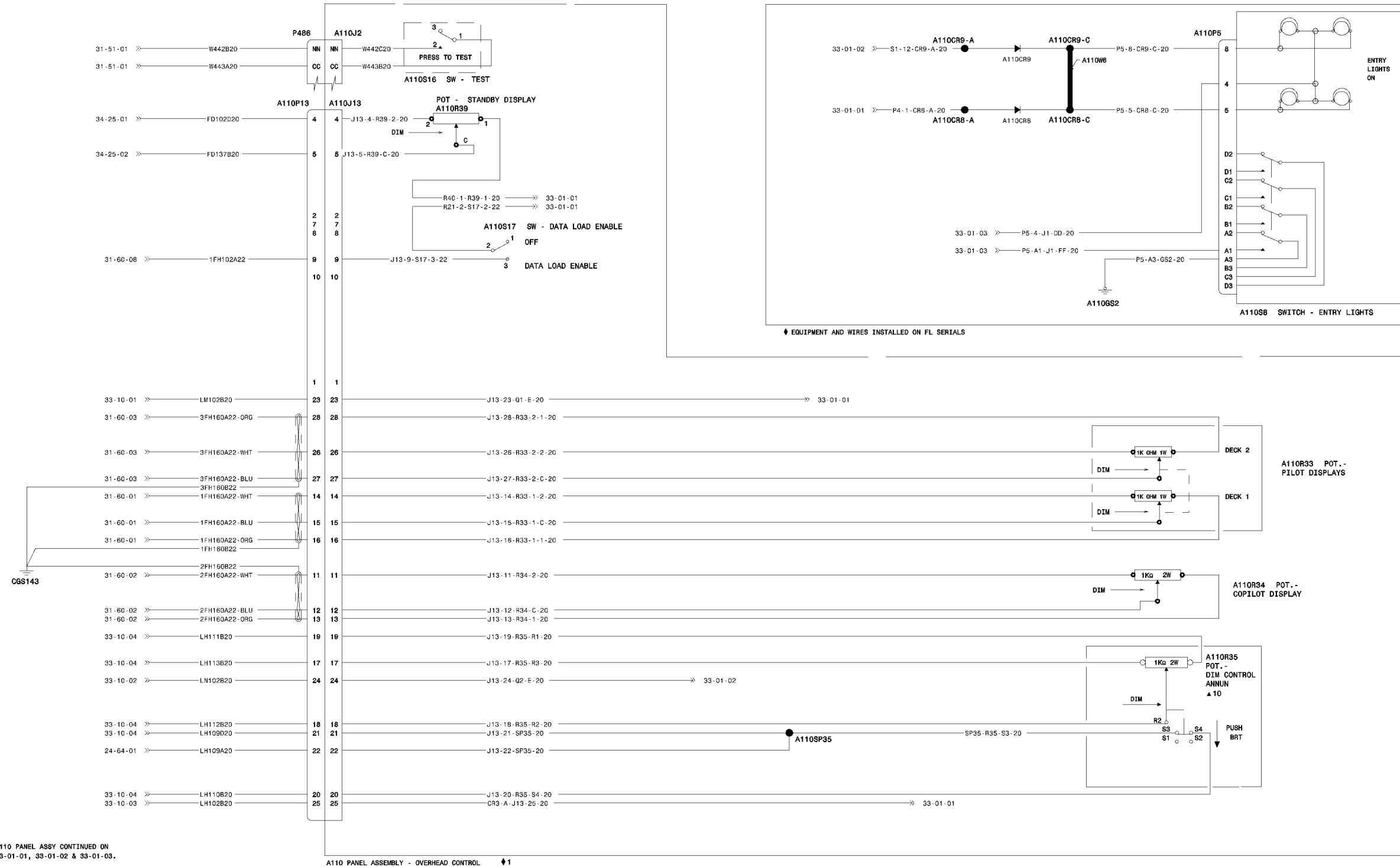


PANEL ASSEMBLY - OVERHEAD CONTROL  
Figure 03 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY				
			FROM	TO					
			1	2	3	4	5	6	7
GS144		. GROUND STUD OVRHD CONT PNL (ZONE 253) . . . . .							
-	131741-1	. . MARKER BAND		V70898					RF R
-	MS25036-103	. . TERMINAL RING TONGUE		V70898					01 R
-	MS25036-108	. . TERMINAL RING TONGUE		V70898					01 R
P486	201357-3	. PLUG, 34 POSITION OVRHD CONT PNL, R (ZONE 253) . . . . .							01 R
-	1-200833-1	. . GUIDE PIN							01 R
-	1-200835-1	. . GUIDE PIN							01 R
-	131741-3	. . MARKER BAND		V70898					01 R
-	200874-2	. . JACKSCREW		V00779					01 R
-	200875-2	. . JACKSCREW		V00779					01 R
-	66101-4	. . TERMINAL SOCKET CONTACT		V00779					01 R
-	66105-4	. . TERMINAL SOCKET CONTACT		V00779					AR R
P486SP1	M81824/1-2	. SPLICE . . . . .		V81343					01 R
-	M83519/1-2	. . SHIELD TERMINATION		V81343					01 R

# BEECHCRAFT® MODEL B300/B300C FUSION WIRING DIAGRAM MANUAL



PANEL ASSEMBLY - OVERHEAD CONTROL  
Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
02		PANEL ASSEMBLY - OVERHEAD CONTROL	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
A110CR8		. . DIODE (ZONE 253) . . . . .			RF R
A110CR9		. . DIODE (ZONE 253) . . . . .			RF R
A110GS2		. . GROUND STUD (ZONE 253) . . . . .			RF R
-	MS25036-108	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
A110J13	206152-1	. . RECEPTACLE AVIONICS INTERFACE (ZONE 253) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	205089-1	. . TERMINAL PIN CONTACT . . . . .	V06090		21 R
-	206070-1	. . BACKSHELL . . . . .	V00779		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
A110J2	200838-3	. . RECEPTACLE, 34 POSITION OVRHD LT CONT PNL, R (ZONE 253) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	66099-4	. . TERMINAL PIN CONTACT . . . . .	V00779		01 R
-	66103-4	. . TERMINAL PIN CONTACT . . . . .	V00779		22 R
A110P13	205839-3	. . PLUG, 28 POSITION . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	206070-1	. . BACKSHELL . . . . .	V00779		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/63-368	. . TERMINAL SOCKET CONTACT . . . . .	V81349		21 R
-	M83519/1-3	. . SHIELD TERMINATION . . . . .	V81343		03 R
A110P5	584-527	. . PLUG (ZONE 253) . . . . .	V96182		01 R
-	M39029/22-192	. . TERMINAL SOCKET CONTACT . . . . .	V81349		05 R
A110R33		. . POTENTIOMETER DIM CONT PILOT DISPLAYS (ZONE 253) . . . . .			RF R
-	106242C42	. . HEATSHRINK . . . . .	V70898		06 R
-	SOLDER	. . TERMINAL CONTACT . . . . .			06 R
A110R34		. . POTENTIOMETER DIM CONT COPILOT DISPLAYS (ZONE 253) . . . . .			RF R
-	106242C42	. . HEATSHRINK . . . . .	V70898		03 R
-	SOLDER	. . TERMINAL CONTACT . . . . .			03 R
A110R35		. . POTENTIOMETER DIM CONT ANNUN LTS (3310) (ZONE 253) . . . . .			RF R
-	106242C42	. . HEATSHRINK . . . . .	V70898		05 R
-	SOLDER	. . TERMINAL CONTACT . . . . .			05 R
A110R39		. . POTENTIOMETER STBY DISPLAY DIM . . . . .			RF R
-	106242C42	. . HEATSHRINK . . . . .	V70898		03 R
-	SOLDER	. . TERMINAL CONTACT . . . . .			03 R
A110S16		. . SWITCH DPDT ANNUN TEST . . . . .			RF R
-	106242C42	. . HEATSHRINK . . . . .	V70898		02 R
-	SOLDER	. . TERMINAL CONTACT . . . . .			02 R
A110S17		. . SWITCH SPDT DATA LOAD ENABLE . . . . .			RF R
-	106242C42	. . HEATSHRINK . . . . .	V70898		02 R
-	SOLDER	. . TERMINAL CONTACT . . . . .			02 R
A110SP35	M81824/1-2	. . SPLICE . . . . .	V81343	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
CGS143		. . GROUND STUD . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-103	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
P486	201357-3	. . PLUG, 34 POSITION OVRHD CONT PNL, R (ZONE 253) . . . . .			01 R
-	1-200833-1	. . GUIDE PIN . . . . .			01 R
-	1-200835-1	. . GUIDE PIN . . . . .			01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	200874-2	. . JACKSCREW . . . . .	V00779		01 R
-	200875-2	. . JACKSCREW . . . . .	V00779		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		AR R

- ITEM NOT ILLUSTRATED

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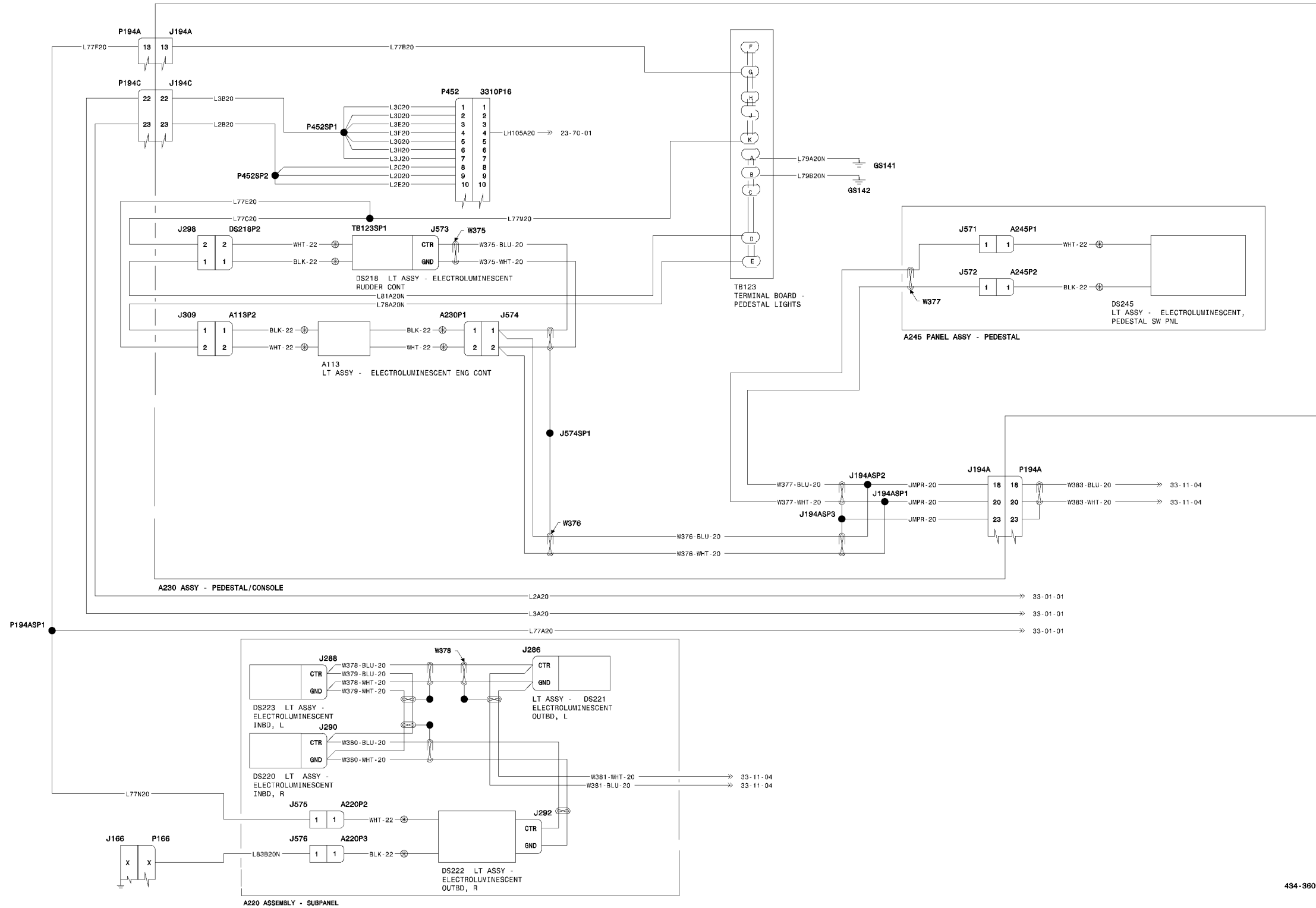
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Figure 02

Page 1

**33-01-04** Dec 02/2022

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**



434-360034\_16\_108

OVERHEAD, SUBPANEL & CONSOLE LIGHTING  
 Figure 04 (Sheet 1)



BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
04		OVERHEAD, SUPBPANEL & CONSOLE LIGHTING	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
3310P16	1-480286-0	. RECEPTACLE, 10 CIRCUIT . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	60618-5	. . TERMINAL PIN CONTACT . . . . .	V00779		02 R
A133M4		. PROP AMMETER LIGHTED INDICATOR (ZONE 243) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-112	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
GS141		. GROUND STUD (ZONE 243) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-103	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
GS142		. GROUND STUD (ZONE 253) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-103	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
J194A	202650-4	. PLUG, 23 POSITION PED/CONSOLE (ZONE 245) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	200874-1	. . JACKSCREW . . . . .	V00779		04 R
-	5-202287-3	. . RECEPTACLE MODULE . . . . .	V00779		01 R
-	66103-4	. . TERMINAL PIN CONTACT . . . . .	V00779		07 R
J194ASP1	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
J194ASP2	M81824/1-2	. SPLICE . . . . .	V81343		01 R
J194ASP3	D-436-60	. SPLICE . . . . .	V06090		01 R
J194C	202650-4	. PLUG, 23 POSITION PED/CONSOLE (ZONE 245) . . . . .	V00779		01 R
-	66103-4	. . TERMINAL PIN CONTACT . . . . .	V00779		AR R
J286		. PLUG OUTBD SUBPANEL EDGELIGHT, L (ZONE 245) . . . . .			RF R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
-	MS25036-148	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
J286SP1	D-436-58	. SPLICE . . . . .	V06090		01 R
J288		. PLUG INBD SUBPANEL EDGELIGHT, L (ZONE 245) . . . . .			RF R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
-	MS25036-148	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
J288SP1	D-436-58	. SPLICE . . . . .	V06090		01 R
J290		. PLUG INBD SUBPANEL EDGELIGHT, R (ZONE 245) . . . . .			RF R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
-	MS25036-148	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
J290SP1	D-436-58	. SPLICE . . . . .	V06090		01 R
J292		. PLUG OUTBD PNL EDGELIGHT, R (ZONE 245) . . . . .			RF R
-	D-436-0098	. . SHIELD TERMINATION . . . . .	V06090		01 R
-	MS25036-148	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
J298	1-480698-0	. PLUG, 2 CIRCUIT RUD BOOST CONT EDGELIGHT (ZONE 243) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	350689-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779		02 R
J309	1-480698-0	. PLUG, 2 CIRCUIT ENG CONT EDGELIGHT (ZONE 243) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	350689-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779		02 R
J571	1-350867-0	. PLUG PED LT SW ASSY (ZONE 243) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	350689-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779		01 R
-	D-436-0098	. . SEALING SLEEVE . . . . .	V06090		01 R
J572	1-350867-0	. PLUG PED LT SW ASSY (ZONE 243) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	350689-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779		01 R
J573	MS90335-6	. PLUG LT ASSY RUD CONT (ZONE 243) . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	D-436-0098	. . SEALING SLEEVE . . . . .	V06090		01 R
-	MS25036-148	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
J574	1-480318-0	. PLUG, 2 CIRCUIT LT ASSY ENG CONT (ZONE 243) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	60617-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779		02 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
J574SP1	D-436-58	. SPLICE . . . . .	V06090		01 R

- ITEM NOT ILLUSTRATED

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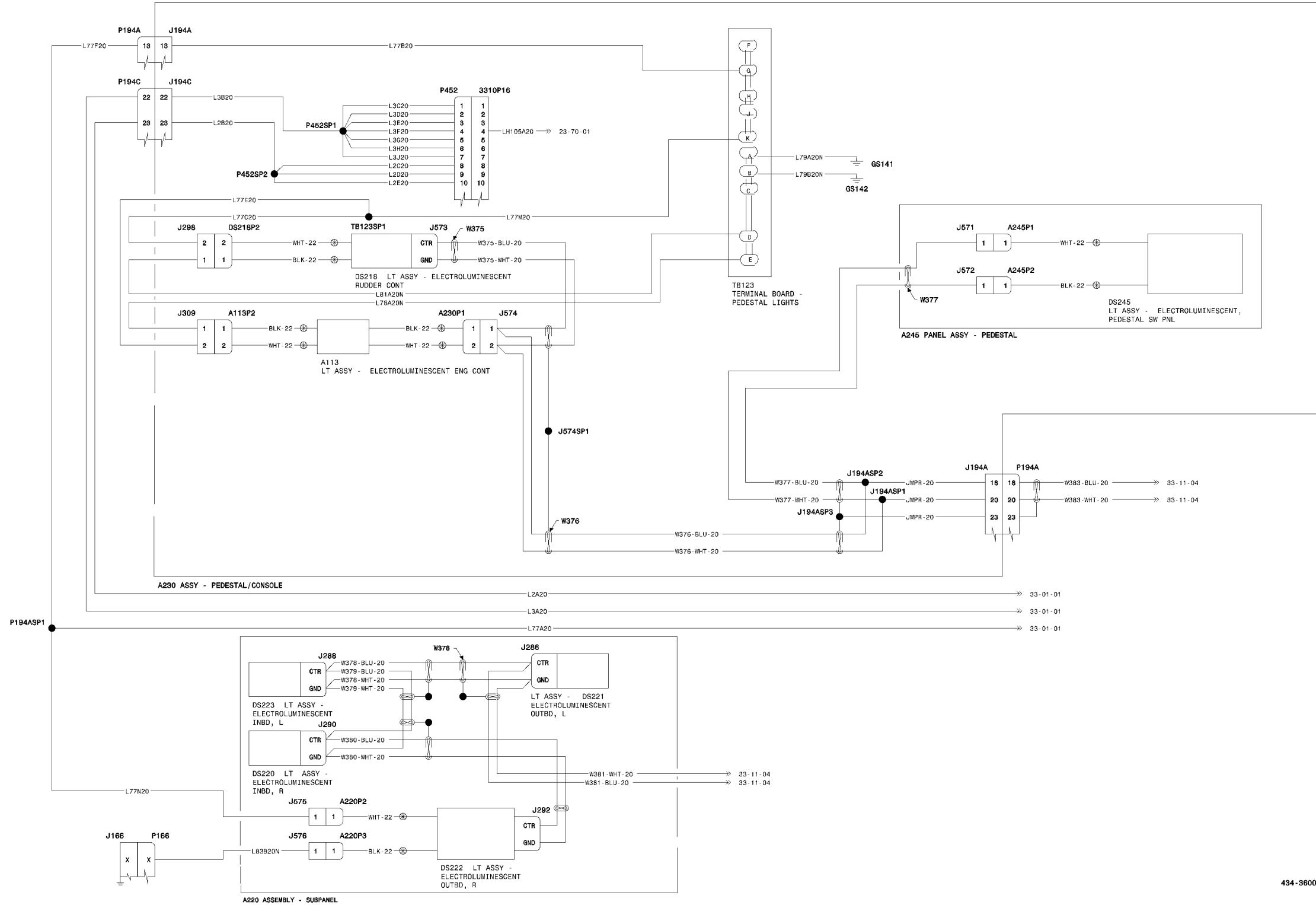
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Figure 04

Page 1

**33-16-01** Dec 02/2022

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**



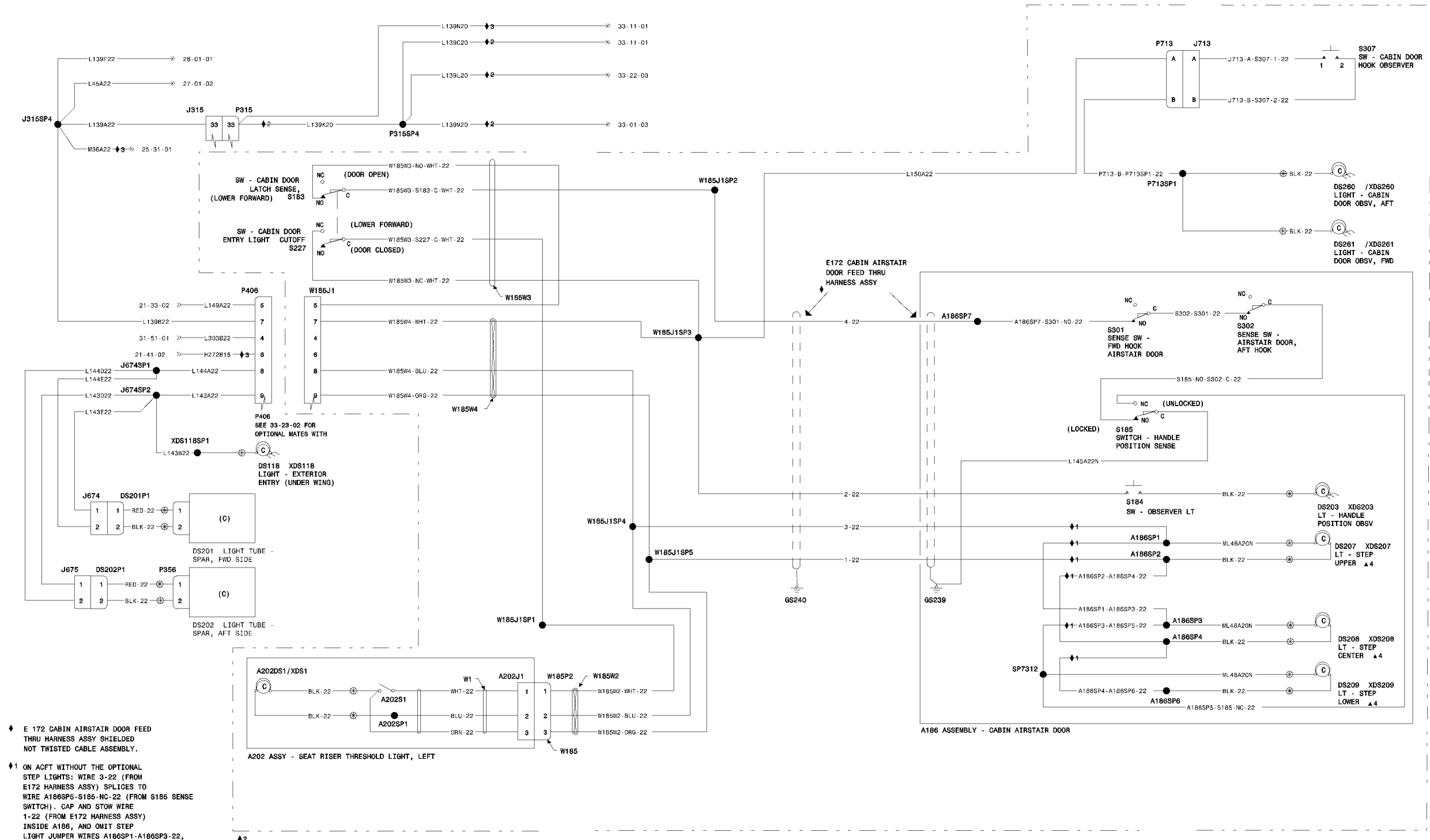
OVERHEAD, SUBPANEL & CONSOLE LIGHTING  
 Figure 04 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
J575	1-350867-0	. PLUG LT ASSY PED, OUTBD (ZONE 243) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	350689-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779		01 R
J576	1-350867-0	. PLUG LT ASSY PED, OUTBD (ZONE 243) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	350689-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779		01 R
P166	200838-3	. RECEPTACLE, 34 POSITION SUBPANEL GND, R (ZONE 232) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	201224-1	. . BACKSHELL . . . . .	V00779		01 R
-	203618-1	. . JACKSCREW . . . . .	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		22 R
-	66105-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		02 R
P194A	202651-4	. RECEPTACLE, 23 POSITION PED CONN (ZONE 243) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	200867-1	. . JACKSCREW . . . . .	V00779		02 R
-	5-202567-1	. . BACKSHELL . . . . .	V00779		01 R
-	5-202795-1	. . PLUG MODULE . . . . .	V00779		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		07 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		01 R
P194ASP1	M81824/1-3	. SPLICE . . . . .	V81343		01 R
P194C	202651-4	. RECEPTACLE, 23 POSITION PED/CONSOLE (ZONE 243) . . . . .	V00779		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		15 R
P452	1-480285-0	. PLUG, 10 CIRCUIT AVIONICS PED LTS (ZONE 245) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	60617-5	. . TERMINAL SOCKET CONTACT . . . . .	V00779		10 R
P452SP1	D-436-43	. SPLICE . . . . .	V06090		01 R
P452SP2	M81824/1-2	. SPLICE . . . . .	V81343		01 R
TB123	M81714/2-DB1	. TERMINAL JUNCTION BLOCK PED LTS (ZONE 243) . . . . .	V81349		01 R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	591637-1	. . TERMINAL JUNCTION . . . . .			01 R
-	M39029/1-101	. . TERMINAL PIN CONTACT . . . . .	V81349		07 R
TB123SP1	M81824/1-2	. SPLICE . . . . .	V81343		01 R

- ITEM NOT ILLUSTRATED

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**



- ◆ E 172 CABIN AIRSTAIR DOOR FEED THRU HARNESS ASSY SHIELDED NOT TWISTED CABLE ASSEMBLY.
- ◆1 ON ACFT WITHOUT THE OPTIONAL STEP LIGHTS: WIRE 3-22 (FROM E172 HARNESS ASSY) SPLICES TO WIRE A186SP6-S185-NC-22 (FROM S185 SENSE SWITCH). CAP AND STOW WIRE 1-22 (FROM E172 HARNESS ASSY) INSIDE A186, AND OMIT STEP LIGHT JUMPER WIRES A186SP1-A186SP3-22, A186SP2-A186SP4-22, A186SP3-A186SP5-22, AND A186SP4-A186SP6-22.
- ◆2 WIRES APPLICABLE TO FL SERIALS ONLY
- ◆3 WIRES APPLICABLE TO FM SERIALS ONLY

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ENTRY & LOADING LIGHTS  
 Figure 05 (Sheet 1)

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
05		ENTRY & LOADING LIGHTS	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
J315	206151-2	. RECEPTACLE, 23-37 CROSSOVER MAIN (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	206138-8	. . BACKSHELL . . . . .	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66099-4	. . TERMINAL PIN CONTACT . . . . .	V00779		03 R
-	66103-4	. . TERMINAL PIN CONTACT . . . . .	V00779		31 R
-	66602-2	. . TERMINAL PIN CONTACT . . . . .	V00779		01 R
-	D-436-0098	. . SEALING SLEEVE . . . . .	V06090		AR R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		01 R
J315SP4	D-436-52	. SPLICE . . . . .	V06090		01 R
J674	1445022-2	. RECEPTACLE AISLE SPAR LT, FWD (ZONE 141) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	794610-1	. . TERMINAL . . . . .	V00779		02 R
J674SP1	M81824/1-2	. SPLICE . . . . .	V81343		01 R
J674SP2	M81824/1-2	. SPLICE . . . . .	V81343		01 R
J675	1445022-2	. RECEPTACLE AISLE SPAR LT, AFT (ZONE 151) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	794610-1	. . TERMINAL . . . . .	V00779		02 R
J713	SJS830270	. RECEPTACLE . . . . .	V58982	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	M39029/58-360	. . TERMINAL PIN CONTACT . . . . .	V81349		02 R
P315	206150-1	. PLUG, 23-37 CROSSOVER MAIN (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	206138-8	. . BACKSHELL . . . . .	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		04 R
-	66105-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		31 R
-	D-436-0098	. . SEALING SLEEVE . . . . .	V06090		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		01 R
P315SP4	D-436-53	. SPLICE . . . . .	V06090		01 R
P406	206708-1	. RECEPTACLE, 9 POSITION W185J1 DISC (ZONE 281) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	206966-1	. . BACKSHELL . . . . .	V00779		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		08 R
P713	SJS830250	. PLUG . . . . .		FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	M39029/57-354	. . TERMINAL SOCKET CONTACT . . . . .	V81349		02 R
S183		. SWITCH (ZONE 261) . . . . .			RF R
		FL SERIALS ONLY			
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-148	. . TERMINAL RING TONGUE . . . . .	V96906		02 R
S227		. SWITCH (ZONE 261) . . . . .			RF R
		FL SERIALS ONLY			
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-148	. . TERMINAL RING TONGUE . . . . .	V96906		02 R
S307		. SWITCH, SNAP (ZONE 281) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	324158	. . TERMINAL RING TONGUE . . . . .			AR R
W185J1	206705-2	. RECEPTACLE, 9 POSITION AFT CAB & DR, R (ZONE 261) . . . . .	V00779		01 R
		FL SERIALS ONLY			
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	206966-7	. . BACKSHELL . . . . .			01 R
-	66103-1	. . TERMINAL PIN CONTACT . . . . .	V00779		07 R
W185J1	D-436-58	. SPLICE . . . . .	V06090		01 R
SP1		FL SERIALS ONLY			
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R

- ITEM NOT ILLUSTRATED

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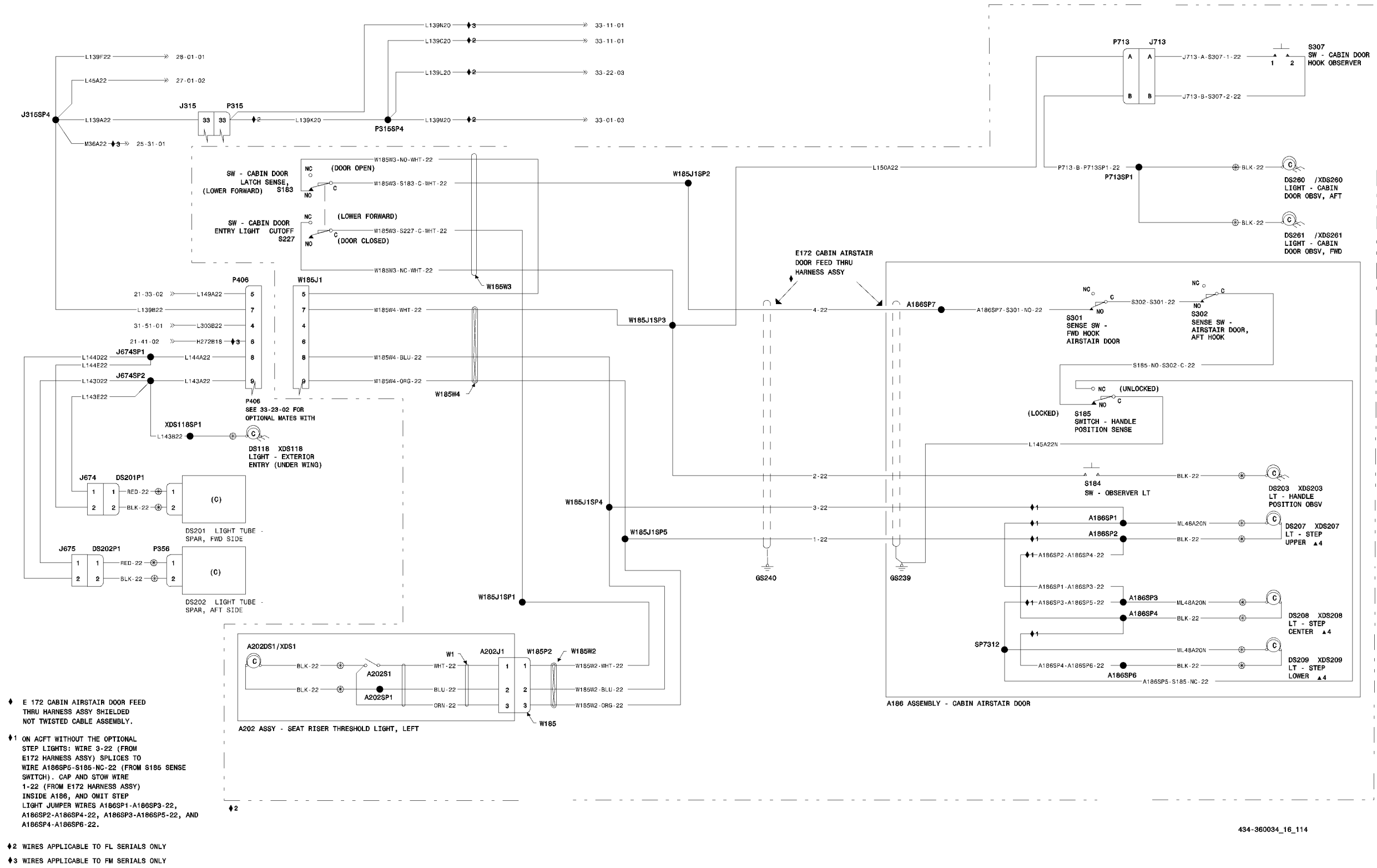
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Figure 05

Page 1

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**BEECHCRAFT®  
MODEL B300/B300C FUSION  
WIRING DIAGRAM MANUAL**



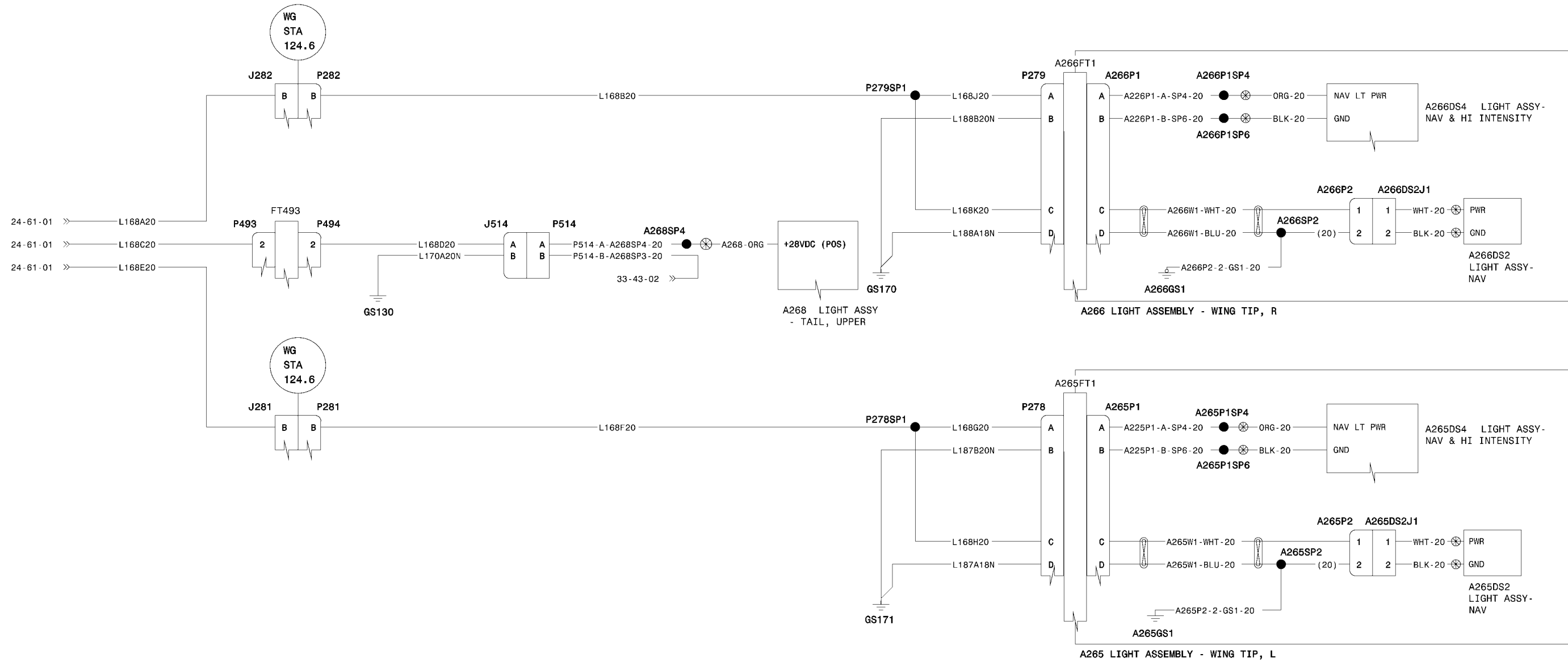
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ENTRY & LOADING LIGHTS  
Figure 05 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
W185J1 SP2	M81824/1-1	. SPLICE . . . . . V81343			01 R
-	131741-1	. . MARKER BAND . . . . . V70898			01 R
W185J1 SP3	M81824/1-2	. SPLICE . . . . . V81343			01 R
-	131741-1	. . MARKER BAND . . . . . V70898			01 R
W185J1 SP4	M81824/1-2	. SPLICE . . . . . V81343			01 R
-	131741-1	. . MARKER BAND . . . . . V70898			01 R
W185J1 SP5	M81824/1-2	. SPLICE . . . . . V81343			01 R
-	131741-1	. . MARKER BAND . . . . . V70898			01 R
W185P2	1-480700-0	. PLUG, 3 CIRCUIT SEAT RISER THRESHOLD LT, L (ZONE 261) . . V00779			01 R
-	131741-3	. . MARKER BAND . . . . . V70898			01 R
-	350689-1	. . TERMINAL SOCKET CONTACT . . . . . V00779			03 R
XDS118		. LAMP EXT ENTRY LT (ZONE 521) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . . V70898			01 R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . . V70898			01 R
XDS118 SP1		. SPLICE . . . . .	FL1234	FL9999	RF R
-	131741-1	. . MARKER BAND . . . . . V70898	FM0098	FM9999	01 R

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



130-360330\_1\_3

NAVIGATION LIGHTS  
 Figure 02 (Sheet 1)



**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
02		NAVIGATION LIGHTS			
A268	01-0771774V02	. LED(28V) Tail Position / Anti-Collision Light Assembly . . . . . V10402	FL1300	FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	131741-1	. . MARKER BAND . . . . . V70898			01 R
A268SP4	M81824/1-2	. SPLICE . . . . . V81343	FL1300	FL1300 FL1307 FL9999 FM0110 FM9999	01 R
GS130		. GROUND STUD (ZONE 330) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . . V70898			01 R
-	MS25036-103	. . TERMINAL RING TONGUE . . . . . V70898			01 R
GS170		. GROUND STUD (ZONE 550) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . . V70898			01 R
-	MS25036-103	. . TERMINAL RING TONGUE . . . . . V96906			01 R
GS171		. GROUND STUD (ZONE 650) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . . V70898			01 R
-	MS25036-103	. . TERMINAL RING TONGUE . . . . . V70898			01 R
J281	MS3470L14-15S	. RECEPTACLE WINDOW BREAK, L (ZONE 511) . . . . . V96906			01 R
-	131741-3	. . MARKER BAND . . . . . V70898			01 R
-	52672	. . FIRE RESISTANT TAPE . . . . . V02988			01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT . . . . . V81349			14 R
-	M39029/5-116	. . TERMINAL SOCKET CONTACT . . . . . V81349			01 R
-	M85049/52-1-14N	. . BACKSHELL . . . . . V81349			01 R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . . V70898			01 R
-	MS27488-16	. . SEALING PLUG . . . . . V96906			01 R
-	MS27488-20	. . SEALING PLUG . . . . . V96906			05 R
J282	MS3470L14-15S	. RECEPTACLE WINDOW BREAK, R (ZONE 611) . . . . . V96906			01 R
-	131741-3	. . MARKER BAND . . . . . V70898			01 R
-	52672	. . FIRE RESISTANT TAPE . . . . . V02988			01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT . . . . . V81349			14 R
-	M39029/5-116	. . TERMINAL SOCKET CONTACT . . . . . V81349			01 R
-	M85049/52-1-14N	. . BACKSHELL . . . . . V81349			01 R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . . V70898			01 R
-	MS27488-16	. . SEALING PLUG . . . . . V96906			01 R
-	MS27488-20	. . SEALING PLUG . . . . . V96906			05 R
J514	SJS840400	. RECEPTACLE 4-PIN . . . . . V58982	FL1300	FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	131741-3	. . MARKER BAND . . . . . V70898			01 R
-	M39029/58-364	. . TERMINAL PIN CONTACT . . . . . V81349			04 R
-	MS27488-16	. . SEALING PLUG . . . . . V96906			02 R
P278	MS3476W16-8S	. PLUG WING TIP LT, L (ZONE 550) . . . . . V96906			01 R
-	131741-3	. . MARKER BAND . . . . . V70898			01 R
-	52672	. . FIRE RESISTANT TAPE . . . . . V02988			01 R
-	M39029/5-116	. . TERMINAL SOCKET CONTACT . . . . . V81349			08 R
-	M83519/2-9	. . SHIELD TERMINATION . . . . . V81343			01 R
-	M85049/52-1-16W	. . BACKSHELL . . . . . V81349			01 R
-	MS27488-16	. . SEALING PLUG . . . . . V96906			07 R
P278SP1	M81824/1-2	. SPLICE . . . . . V81343			01 R
P279	MS3476W16-8S	. PLUG WING TIP LT, R (ZONE 650) . . . . . V96906			01 R
-	131741-3	. . MARKER BAND . . . . . V70898			01 R
-	52672	. . FIRE RESISTANT TAPE . . . . . V02988			01 R
-	M39029/5-116	. . TERMINAL SOCKET CONTACT . . . . . V81349			08 R
-	M83519/2-9	. . SHIELD TERMINATION . . . . . V81343			01 R
-	M85049/52-1-16W	. . BACKSHELL . . . . . V81349			01 R
-	MS27488-16	. . SEALING PLUG . . . . . V96906			07 R
P279SP1	M81824/1-2	. SPLICE . . . . . V81343			01 R

- ITEM NOT ILLUSTRATED

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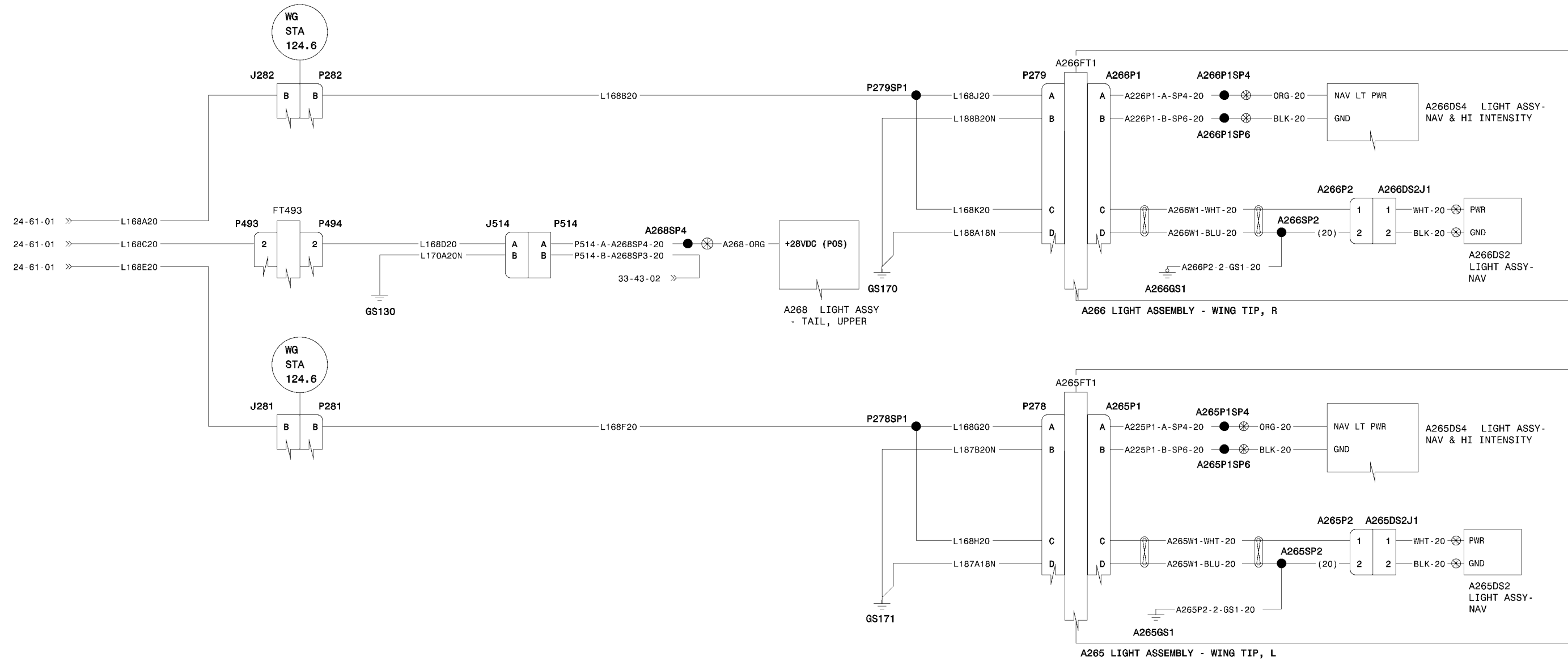
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Figure 02

Page 1

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BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



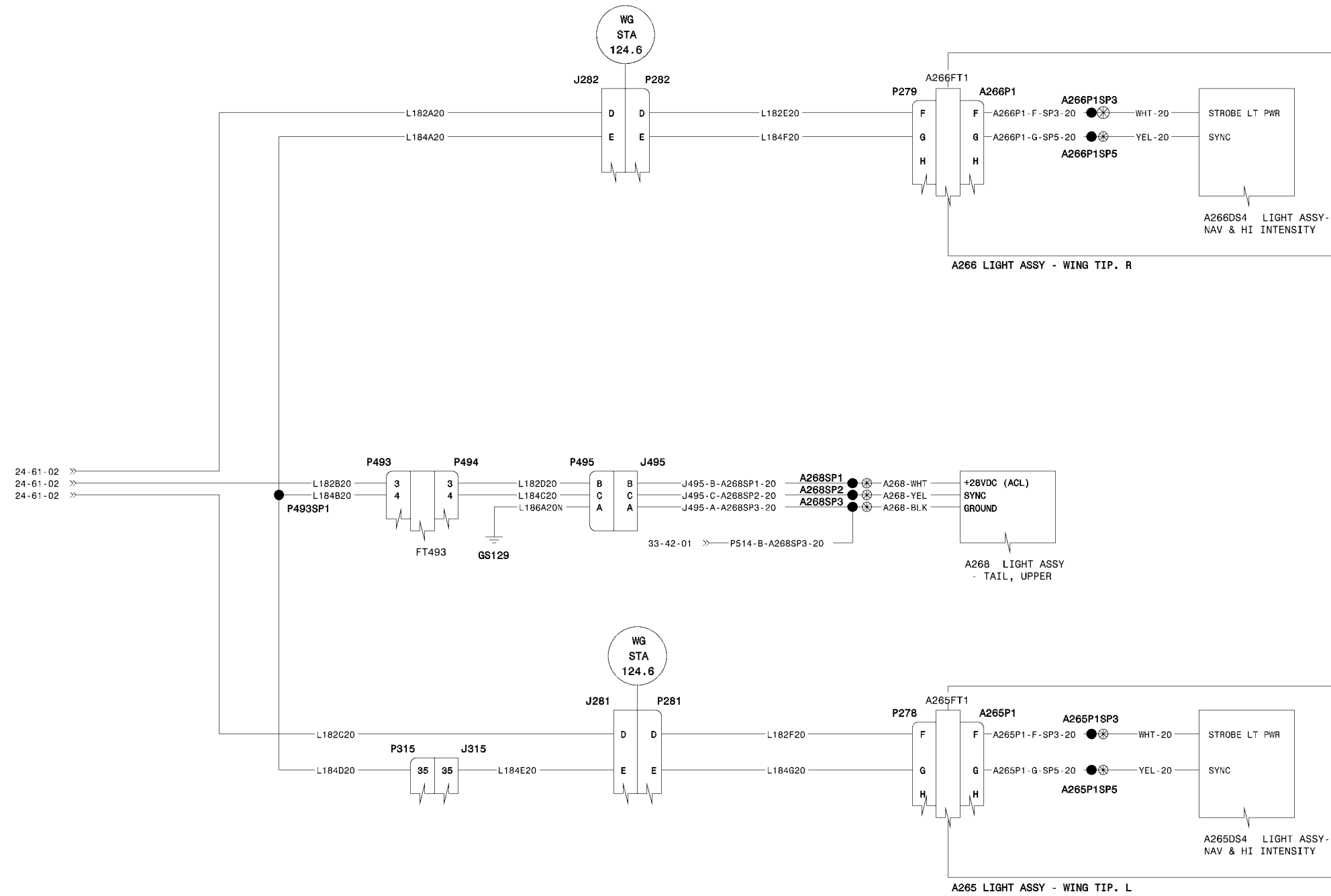
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NAVIGATION LIGHTS  
 Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
			1	2	3
P281	MS3476L14-15P	. PLUG WING BREAK, L (ZONE 512) . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT . . . . .	V81349		14 R
-	M39029/4-111	. . TERMINAL PIN CONTACT . . . . .	V81349		01 R
-	M83519/2-7	. . SHIELD TERMINATION . . . . .	V81343		02 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
-	M85049/52-1-14N	. . BACKSHELL . . . . .	V81349		01 R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V96906		02 R
-	MS27488-16	. . SEALING PLUG . . . . .	V96906		01 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		05 R
P282	MS3476L14-15P	. PLUG WING BREAK, R (ZONE 612) . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT . . . . .	V81349		14 R
-	M39029/4-111	. . TERMINAL PIN CONTACT . . . . .	V81349		01 R
-	M83519/2-7	. . SHIELD TERMINATION . . . . .	V81343		02 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
-	M85049/52-1-14N	. . BACKSHELL . . . . .	V81349		01 R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V96906		02 R
-	MS27488-16	. . SEALING PLUG . . . . .	V96906		01 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		05 R
P493	206037-1	. PLUG AFT PRESS BKHD (ZONE 282) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	206070-1	. . BACKSHELL . . . . .	V00779		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		06 R
-	66360-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		01 R
P494	206554-1	. PLUG, 16 POSITION AFT PRESS BKHD (ZONE 300) . . . . .			01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	206070-1	. . BACKSHELL . . . . .	V00779		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		06 R
-	66360-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		01 R
P514	SJS840410	. PLUG 4-PIN . . . . .	V58982	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	M39029/57-358	. . TERMINAL SOCKET CONTACT . . . . .	V81349		04 R
-	MS27488-16	. . SEALING PLUG . . . . .	V96906		02 R

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 WIRING DIAGRAM MANUAL



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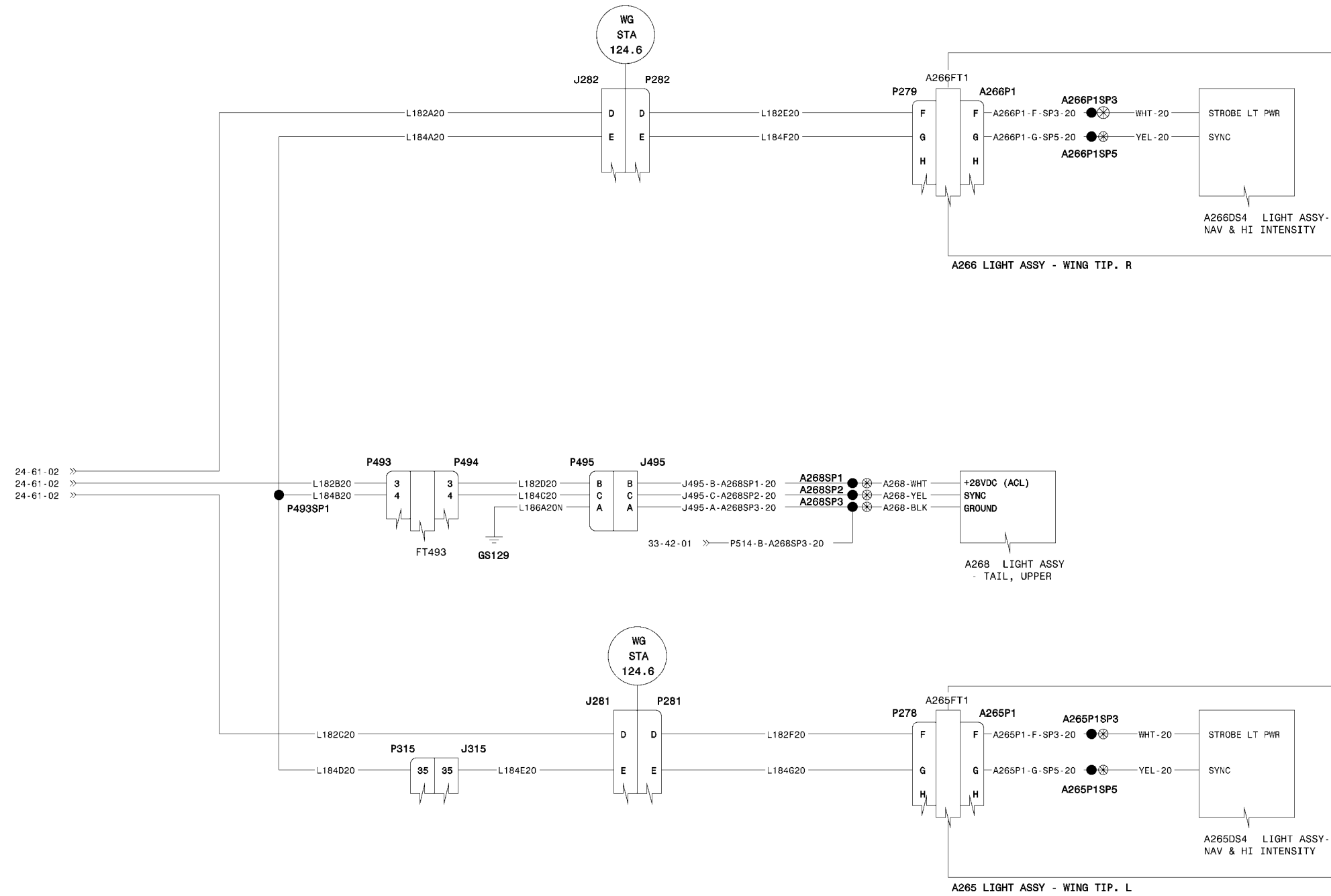
HIGH INTENSITY LIGHTING  
 Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
02		HIGH INTENSITY LIGHTING	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
A268	01-0771774V02	. LED(28V) Tail Position / Anti-Collision Light Assembly . . . . . V10402	FL1300	FL1300	01 R
			FL1307	FL9999	
			FM0110	FM9999	
-	131741-1	. . MARKER BAND	V70898		01 R
A268SP1	M81824/1-2	. SPLICE . . . . . V81343	FL1300	FL1300	01 R
			FL1307	FL9999	
			FM0110	FM9999	
A268SP2	M81824/1-2	. SPLICE . . . . . V81343	FL1300	FL1300	01 R
			FL1307	FL9999	
			FM0110	FM9999	
A268SP3	M81824/1-2	. SPLICE . . . . . V81343	FL1300	FL1300	01 R
			FL1307	FL9999	
			FM0110	FM9999	
GS129		. GROUND STUD (ZONE 330) . . . . .			RF R
-	131741-1	. . MARKER BAND	V70898		01 R
-	MS25036-103	. . TERMINAL RING TONGUE	V70898		01 R
-	MS25036-108	. . TERMINAL RING TONGUE	V96906		01 R
J281	MS3470L14-15S	. RECEPTACLE WINDOW BREAK, L (ZONE 511) . . . . . V96906			01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT	V81349		14 R
-	M39029/5-116	. . TERMINAL SOCKET CONTACT	V81349		01 R
-	M85049/52-1-14N	. . BACKSHELL	V81349		01 R
-	MS25036-102	. . TERMINAL RING TONGUE	V70898		01 R
-	MS27488-16	. . SEALING PLUG	V96906		01 R
-	MS27488-20	. . SEALING PLUG	V96906		05 R
J282	MS3470L14-15S	. RECEPTACLE WINDOW BREAK, R (ZONE 611) . . . . . V96906			01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT	V81349		14 R
-	M39029/5-116	. . TERMINAL SOCKET CONTACT	V81349		01 R
-	M85049/52-1-14N	. . BACKSHELL	V81349		01 R
-	MS25036-102	. . TERMINAL RING TONGUE	V70898		01 R
-	MS27488-16	. . SEALING PLUG	V96906		01 R
-	MS27488-20	. . SEALING PLUG	V96906		05 R
J315	206151-2	. RECEPTACLE, 23-37 CROSSOVER MAIN (ZONE 143) . . . . . V00779			01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	206138-8	. . BACKSHELL	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66099-4	. . TERMINAL PIN CONTACT	V00779		03 R
-	66103-4	. . TERMINAL PIN CONTACT	V00779		31 R
-	66602-2	. . TERMINAL PIN CONTACT	V00779		01 R
-	D-436-0098	. . SEALING SLEEVE	V06090		AR R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		01 R
J495	SJS840400	. RECEPTACLE 4-PIN . . . . . V58982	FL1300	FL1300	01 R
			FL1307	FL9999	
			FM0110	FM9999	
-	131741-3	. . MARKER BAND	V70898		01 R
-	M39029/58-364	. . TERMINAL PIN CONTACT	V81349		04 R
-	MS27488-16	. . SEALING PLUG	V96906		01 R
P278	MS3476W16-8S	. PLUG WING TIP LT, L (ZONE 550) . . . . . V96906			01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/5-116	. . TERMINAL SOCKET CONTACT	V81349		08 R
-	M83519/2-9	. . SHIELD TERMINATION	V81343		01 R
-	M85049/52-1-16W	. . BACKSHELL	V81349		01 R
-	MS27488-16	. . SEALING PLUG	V96906		07 R

- ITEM NOT ILLUSTRATED

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



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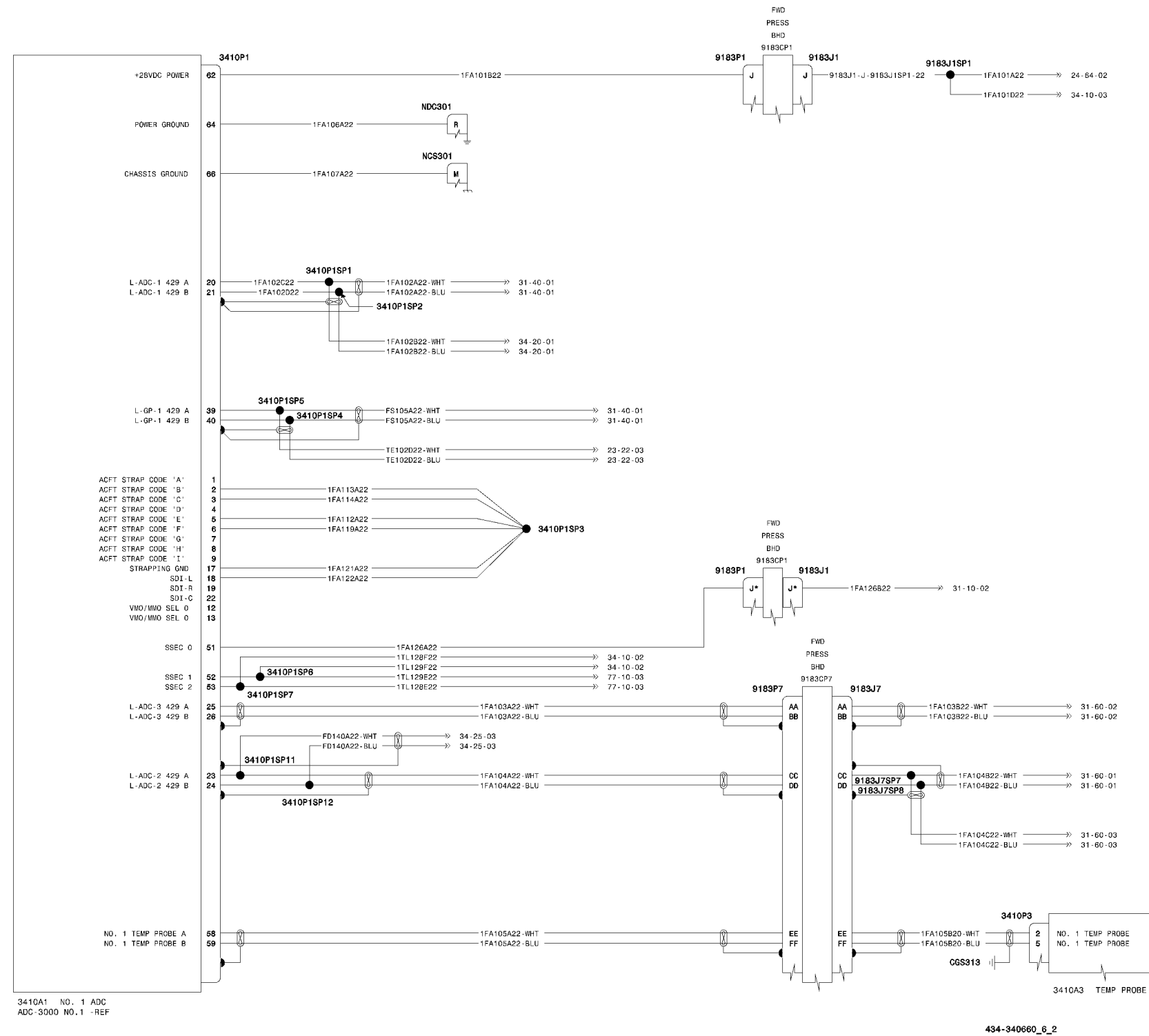
HIGH INTENSITY LIGHTING  
 Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
P279	MS3476W16-8S	. PLUG WING TIP LT, R (ZONE 650) . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/5-116	. . TERMINAL SOCKET CONTACT	V81349		08 R
-	M83519/2-9	. . SHIELD TERMINATION	V81343		01 R
-	M85049/52-1-16W	. . BACKSHELL	V81349		01 R
-	MS27488-16	. . SEALING PLUG	V96906		07 R
P281	MS3476L14-15P	. PLUG WING BREAK, L (ZONE 512) . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT	V81349		14 R
-	M39029/4-111	. . TERMINAL PIN CONTACT	V81349		01 R
-	M83519/2-7	. . SHIELD TERMINATION	V81343		02 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		02 R
-	M85049/52-1-14N	. . BACKSHELL	V81349		01 R
-	MS25036-102	. . TERMINAL RING TONGUE	V96906		02 R
-	MS27488-16	. . SEALING PLUG	V96906		01 R
-	MS27488-20	. . SEALING PLUG	V96906		05 R
P282	MS3476L14-15P	. PLUG WING BREAK, R (ZONE 612) . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT	V81349		14 R
-	M39029/4-111	. . TERMINAL PIN CONTACT	V81349		01 R
-	M83519/2-7	. . SHIELD TERMINATION	V81343		02 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		02 R
-	M85049/52-1-14N	. . BACKSHELL	V81349		01 R
-	MS25036-102	. . TERMINAL RING TONGUE	V96906		02 R
-	MS27488-16	. . SEALING PLUG	V96906		01 R
-	MS27488-20	. . SEALING PLUG	V96906		05 R
P315	206150-1	. PLUG, 23-37 CROSSOVER MAIN (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	206138-8	. . BACKSHELL	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT	V00779		04 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		31 R
-	D-436-0098	. . SEALING SLEEVE	V06090		01 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		01 R
P493	206037-1	. PLUG AFT PRESS BKHD (ZONE 282) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	206070-1	. . BACKSHELL	V00779		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		06 R
-	66360-4	. . TERMINAL SOCKET CONTACT	V00779		01 R
P493SP1	M81824/1-2	. SPLICE . . . . .	V81343		01 R
P494	206554-1	. PLUG, 16 POSITION AFT PRESS BKHD (ZONE 300) . . . . .			01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	206070-1	. . BACKSHELL	V00779		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		06 R
-	66360-4	. . TERMINAL SOCKET CONTACT	V00779		01 R
P495	207575-1	. PLUG, 7 POSITION EMPENNAGE, UPR (ZONE 330) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		05 R

- ITEM NOT ILLUSTRATED

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 WIRING DIAGRAM MANUAL



NO. 1 AIR DATA COMPUTER (ADC)  
 Figure 02 (Sheet 1)

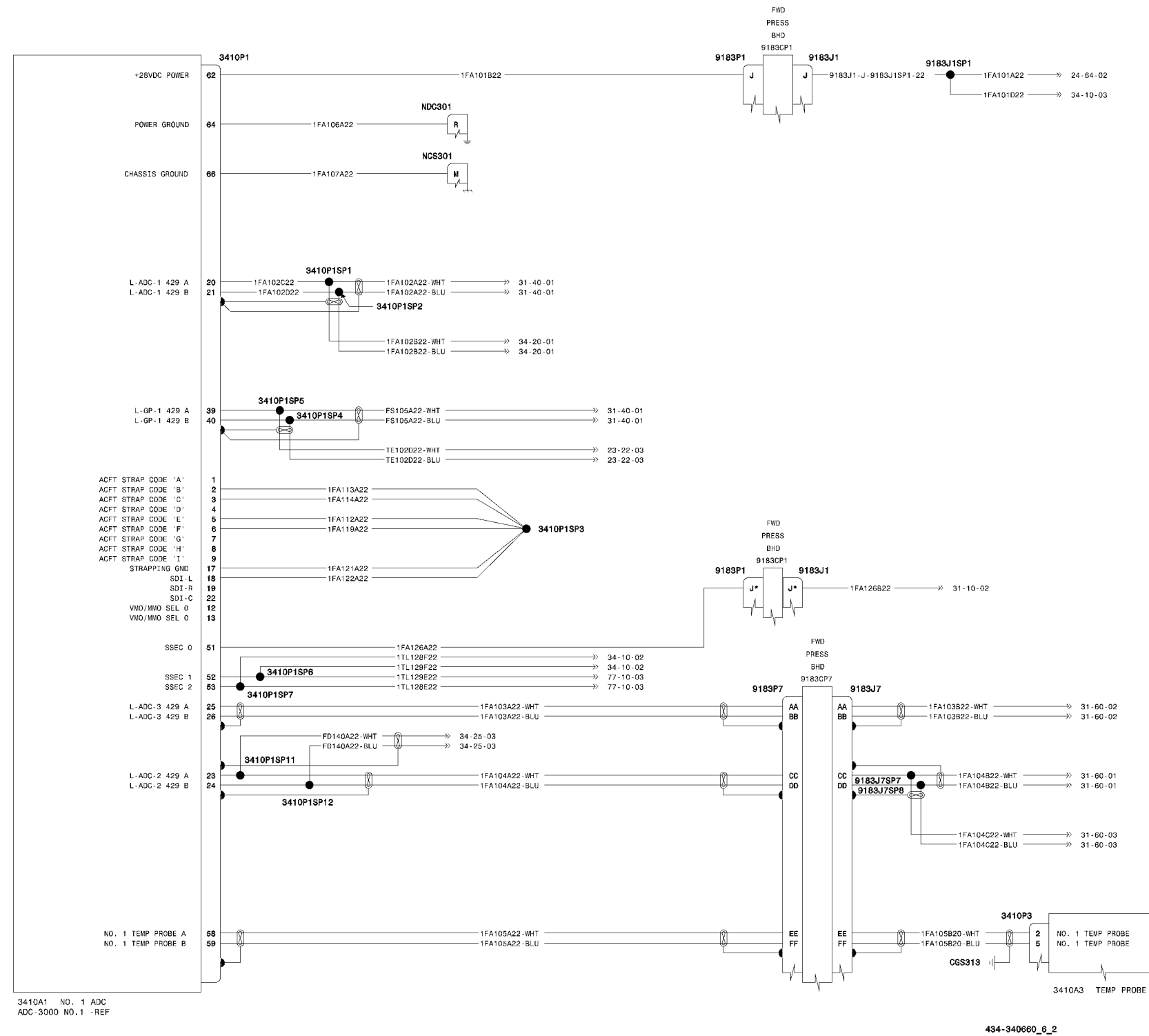


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WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
02		NO. 1 AIR DATA COMPUTER (ADC)	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
3410P1	MS27484T18F35SB	. PLUG AIR DATA COMPUTER (ADC-3000) . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/57-354	. . TERMINAL SOCKET CONTACT . . . . .	V81349		64 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		03 R
-	M85049/49-2-18N	. . BACKSHELL . . . . .	V81349		01 R
-	MS25036-153	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
-	MS27488-22	. . SEALING PLUG . . . . .	V96906		44 R
3410P1S- P11	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		01 R
3410P1S- P12	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
3410P1 SP1	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		03 R
3410P1 SP2	M81824/1-2	. SPLICE . . . . .	V81343		01 R
3410P1 SP3	D-436-61	. SPLICE . . . . .	V06090		01 R
3410P1 SP4	M81824/1-2	. SPLICE . . . . .	V81343		01 R
3410P1 SP5	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
3410P1 SP6	M81824/1-2	. SPLICE . . . . .	V81343		01 R
3410P1 SP7	M81824/1-2	. SPLICE . . . . .	V81343		01 R
3410P3	MS24266R14B7SN	. PLUG NO. 1 TEMP PROBE . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/32-247	. . TERMINAL SOCKET CONTACT . . . . .	V81349		07 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
-	MS27488-16	. . SEALING PLUG . . . . .	V96906		03 R
9183J1	MS3476W22-41S	. PLUG FWD PRESS BKHD . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT . . . . .	V81349		27 R
-	M39029/5-116	. . TERMINAL SOCKET CONTACT . . . . .	V81349		14 R
-	M83519/2-10	. . SHIELD TERMINATION . . . . .	V81343		02 R
-	M85049/52S22W	. . BACKSHELL . . . . .	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS27488-16	. . SEALING PLUG . . . . .	V96906		07 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		10 R
9183J1 SP1	M81824/1-2	. SPLICE . . . . .	V81343		01 R
9183J7	MS3476W24-61SX	. PLUG FWD BKHD . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	D-436-0097	. . SEALING SLEEVE . . . . .	V06090		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT . . . . .	V81349		60 R
-	M83519/2-7	. . SHIELD TERMINATION . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		18 R
-	M85049/52S24W	. . BACKSHELL . . . . .	V81349		01 R
-	MS25036-153	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
-	MS25036-156	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
9183J7 SP7	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
9183J7 SP8	M81824/1-2	. SPLICE . . . . .	V81343		01 R

- ITEM NOT ILLUSTRATED

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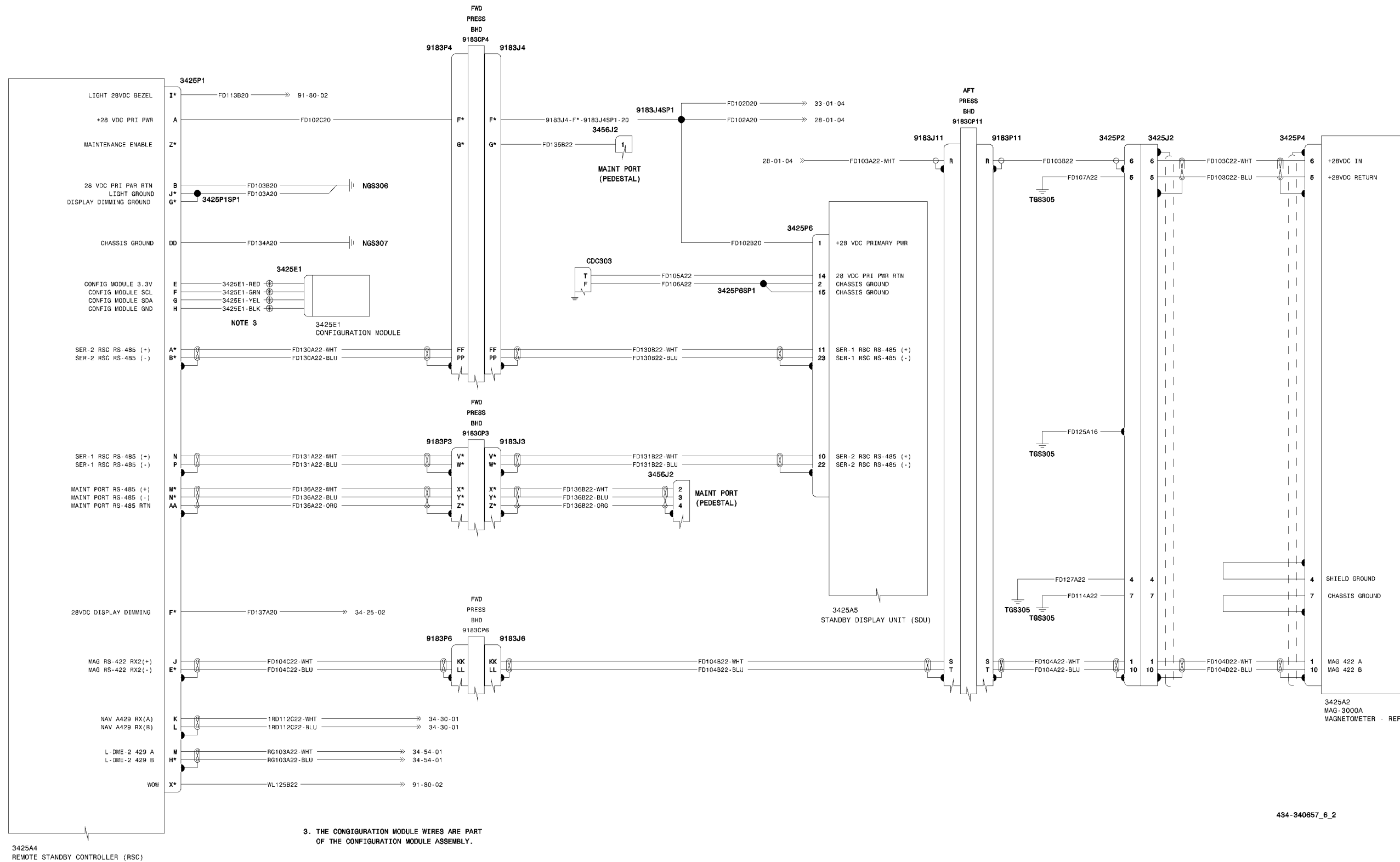
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NO. 1 AIR DATA COMPUTER (ADC)  
 Figure 02 (Sheet 1)

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 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS
			FROM	TO	PER ASSY
		1 2 3 4 5 6 7			
9183P1	MS3476W22-41P	. PLUG FWD PRESS BKHD . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT	V81349		27 R
-	M39029/4-111	. . TERMINAL PIN CONTACT	V81349		14 R
-	M83519/2-10	. . SHIELD TERMINATION	V81343		02 R
-	M85049/51S22W	. . BACKSHELL	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE	V70898		01 R
-	MS27488-16	. . SEALING PLUG	V96906		07 R
-	MS27488-20	. . SEALING PLUG	V96906		10 R
9183P7	MS3476W24-61PX	. PLUG FWD BKHD . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	D-436-0096	. . SEALING SLEEVE	V06090		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT	V81349		61 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		22 R
-	M85049/52S24W	. . BACKSHELL	V81349		01 R
-	MS25036-153	. . TERMINAL RING TONGUE	V70898		04 R
CGS313		. GROUND STUD . . . . .			RF R
-	131741-1	. . MARKER BAND	V70898		01 R
-	MS25036-103	. . TERMINAL RING TONGUE	V70898		01 R
NCS301	200838-2	. RECEPTACLE, 34 POSITION GND BLK. . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	201224-1	. . BACKSHELL	V00779		01 R
-	201328-1	. . TERMINAL SOCKET CONTACT	V00779		29 R
-	202508-1	. . TERMINAL SOCKET CONTACT	V00779		04 R
-	203618-1	. . JACKSCREW	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
NDC301	200838-2	. RECEPTACLE, 34 POSITION GND BLK. . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	201224-1	. . BACKSHELL	V00779		01 R
-	201328-1	. . TERMINAL SOCKET CONTACT	V00779		24 R
-	202508-1	. . TERMINAL SOCKET CONTACT	V00779		08 R
-	203618-1	. . JACKSCREW	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R

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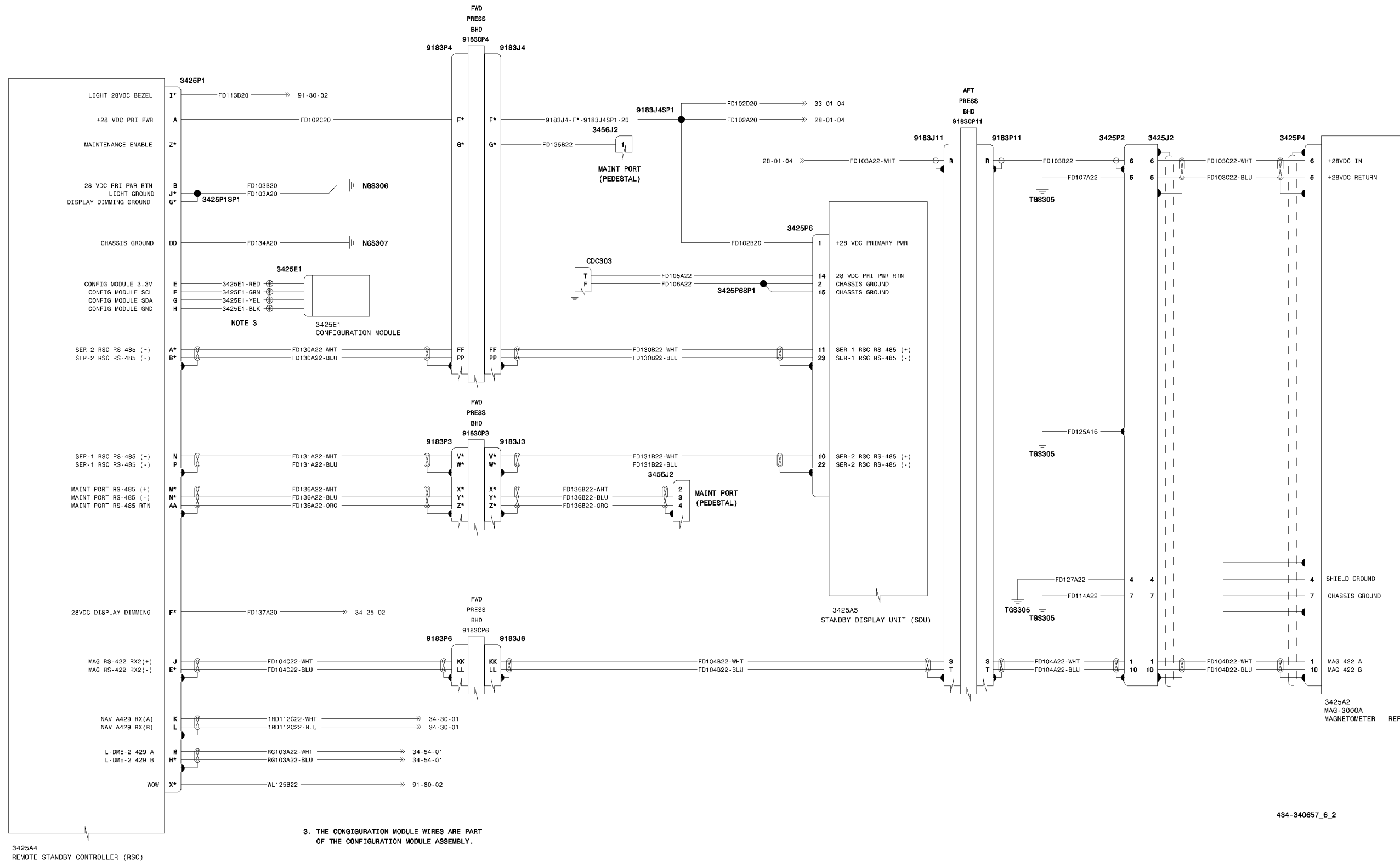
ELECTRONICS STANDBY INSTRUMENT SYSTEM - RSC  
Figure 03 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
WIRING DIAGRAM MANUAL

FIG	REF	PART NUMBER	NOMENCLATURE	EFFECTIVITY	UNITS
DES		1 2 3 4 5 6 7		FROM TO	PER ASSY
03			ELECTRONICS STANDBY INSTRUMENT SYSTEM - RSC	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	
	3425E1	9230-38001-01	. CONFIGURATION MODULE . . . . .	V25583	01 R
	-	131741-1	. . MARKER BAND . . . . .	V70898	01 R
	-	NA	. . TERMINAL CONTACT . . . . .		04 R
	3425J2	JT06RE-10-35P(SR)	. PLUG STRAIGHT . . . . .	V77820	01 R
		)			
	-	131741-3	. . MARKER BAND . . . . .	V70898	01 R
	-	INCLUDED WITH CO	. . BACKSHELL . . . . .		RF R
	-	M39029/58-360	. . TERMINAL PIN CONTACT . . . . .	V81349	13 R
	-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343	02 R
	-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898	02 R
	-	MS27488-22	. . SEALING PLUG . . . . .	V96906	09 R
		NNECTOR			
	3425P1	MS27473T22F55S	. PLUG ESIS DISPLAY . . . . .	V96906	01 R
	-	131741-3	. . MARKER BAND . . . . .	V70898	01 R
	-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988	01 R
	-	5480	. . PTFE SKIVED FILM TAPE . . . . .		01 R
	-	M39029/57-357	. . TERMINAL SOCKET CONTACT . . . . .	V81349	55 R
	-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343	06 R
	-	M85049/49-2S22N	. . BACKSHELL . . . . .		01 R
	-	MS25036-153	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
	-	MS27488-20	. . SEALING PLUG . . . . .	V96906	29 R
	3425P1	M81824/1-2	. SPLICE . . . . .	V81343	01 R
	SP1				
	3425P2	JT01RE-10-35S (S R)	. RECEPTACLE ESIS HDG SNSR. . . . .	V77820	01 R
	-		. . BACKSHELL INCLUDED WITH CONNECTOR . . . . .		RF R
	-	131741-3	. . MARKER BAND . . . . .	V70898	01 R
	-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988	01 R
	-	M39029/57-354	. . TERMINAL SOCKET CONTACT . . . . .	V81349	13 R
	-	M83519/2-7	. . SHIELD TERMINATION . . . . .	V81343	01 R
	-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343	01 R
	-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V96906	01 R
	-	MS25036-107	. . TERMINAL RING TONGUE . . . . .	V96906	01 R
	-	MS27488-22	. . SEALING PLUG . . . . .	V96906	07 R
	3425P4	JT01RE-10-35S(SR)	. RECEPTACLE LINE MOUNT . . . . .	V77820	01 R
		)			
	-	131741-3	. . MARKER BAND . . . . .	V70898	01 R
	-	INCLUDED WITH CO	. . BACKSHELL . . . . .		RF R
	-	M39029/57-354	. . TERMINAL SOCKET CONTACT . . . . .	V81349	13 R
	-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343	02 R
	-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898	03 R
	-	MS27488-22	. . SEALING PLUG . . . . .	V96906	07 R
		NNECTOR			
	3425P6	RD25S10ANE0	. RECEPTACLE . . . . .	V28198	01 R
	-		. . BACKSHELL INCLUDED WITH CONNECTOR . . . . .		RF R
	-	131741-3	. . MARKER BAND . . . . .	V70898	01 R
	-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988	01 R
	-	M39029/63-368	. . TERMINAL SOCKET CONTACT . . . . .	V81349	AR R
	-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343	02 R
	-	MS25036-148	. . TERMINAL RING TONGUE . . . . .	V70898	01 R
	3425P6	M81824/1-2	. SPLICE . . . . .	V81343	01 R
	SP1				
	3456J2	M24308/2-4F	. RECPTACLE 37 SOCKET PCD-3000. . . . .	V81349	01 R
	-	131741-3	. . MARKER BAND . . . . .	V70898	01 R
	-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988	01 R
	-	D20418-2	. . SCREWLOCK . . . . .	V71468	02 R
	-	M39029/63-368	. . TERMINAL SOCKET CONTACT . . . . .	V81349	17 R
	-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343	01 R
	-	M85049/48-1-4F	. . BACKSHELL . . . . .	V81349	01 R
	-	MS25036-148	. . TERMINAL RING TONGUE . . . . .	V70898	01 R

- ITEM NOT ILLUSTRATED

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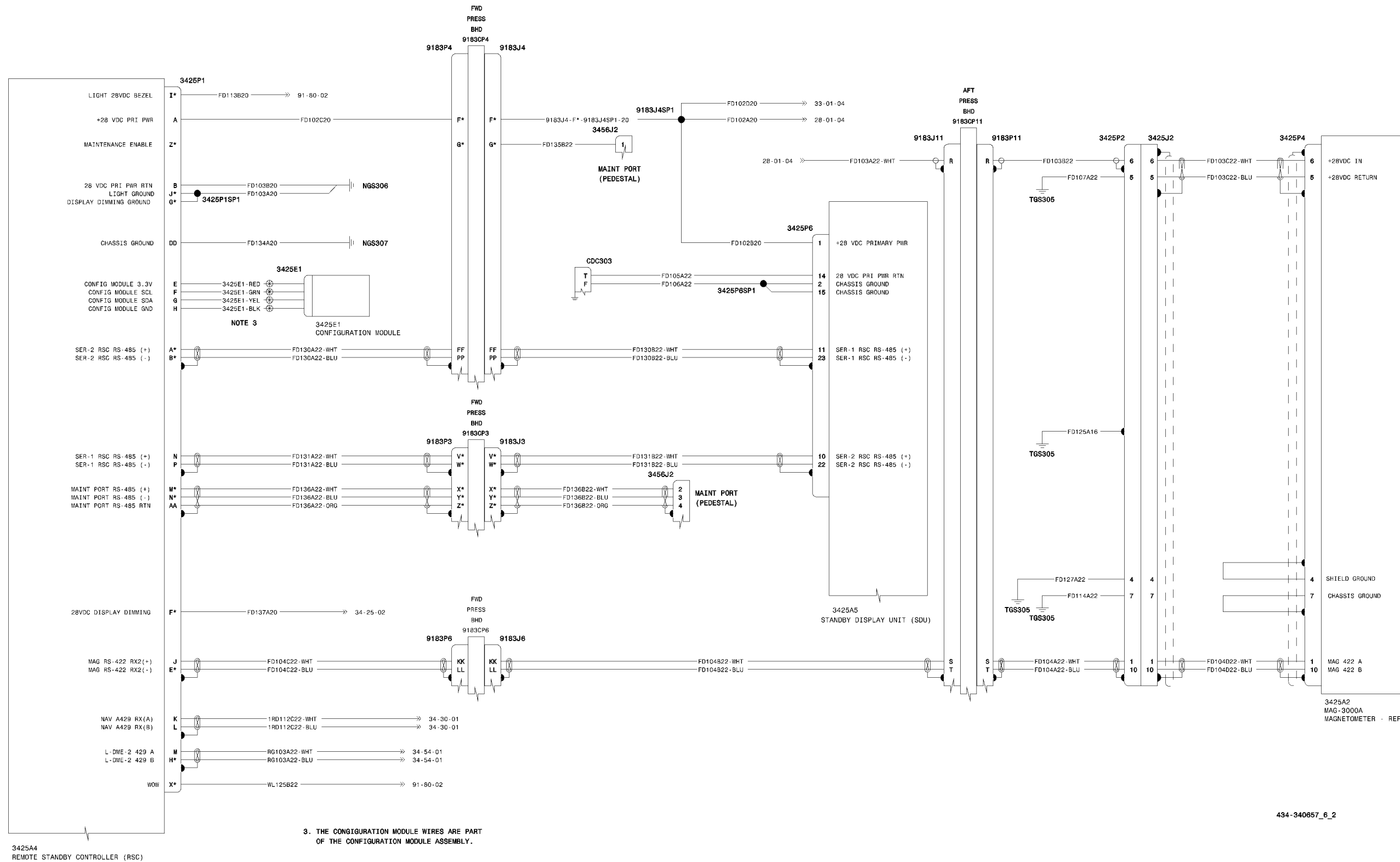
ELECTRONICS STANDBY INSTRUMENT SYSTEM - RSC  
Figure 03 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY	
			FROM	TO		
			1	2	3	
9183J11	MS3476W22-55S	. PLUG			V96906	01 R
-	131741-3	. . MARKER BAND			V70898	01 R
-	52672	. . FIRE RESISTANT TAPE			V02988	01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT			V81349	55 R
-	M83519/2-7	. . SHIELD TERMINATION			V81343	01 R
-	M83519/2-8	. . SHIELD TERMINATION			V81343	17 R
-	M85049/51S22W	. . BACKSHELL			V81349	01 R
-	MS25036-153	. . TERMINAL RING TONGUE			V70898	04 R
-	MS27488-20	. . SEALING PLUG			V96906	07 R
9183J3	MS3476W24-61SW	. PLUG			V96906	01 R
-	131741-3	. . MARKER BAND			V70898	01 R
-	52672	. . FIRE RESISTANT TAPE			V02988	01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT			V81349	46 R
-	M83519/2-8	. . SHIELD TERMINATION			V81343	13 R
-	M85049/52S24W	. . BACKSHELL			V81349	01 R
-	MS25036-153	. . TERMINAL RING TONGUE			V70898	02 R
-	MS25036-156	. . TERMINAL RING TONGUE			V70898	02 R
-	MS27488-20	. . SEALING PLUG			V96906	15 R
9183J4	MS3476W24-61S	. PLUG			V96906	01 R
-	131741-3	. . MARKER BAND			V70898	01 R
-	52672	. . FIRE RESISTANT TAPE			V02988	01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT			V81349	61 R
-	M83519/2-8	. . SHIELD TERMINATION			V81343	10 R
-	M83519/2-9	. . SHIELD TERMINATION			V81343	01 R
-	M85049/52S24W	. . BACKSHELL			V81349	01 R
-	MS25036-153	. . TERMINAL RING TONGUE			V70898	04 R
-	MS27488-20	. . SEALING PLUG			V96906	17 R
9183J4 SP1	D-436-53	. SPLICE			V06090	01 R
9183J6	MS3476W24-61SW	. PLUG			V96906	01 R
-	131741-3	. . MARKER BAND			V70898	01 R
-	52672	. . FIRE RESISTANT TAPE			V02988	01 R
-	D-181-1222-90/9	. . SOLDER SLEEVE			V06090	01 R
-	D-436-0096	. . SEALING SLEEVE			V06090	01 R
-	D-436-0097	. . SEALING SLEEVE			V06090	01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT			V81349	61 R
-	M83519/2-8	. . SHIELD TERMINATION			V81343	12 R
-	M85049/52S24W	. . BACKSHELL			V81349	01 R
-	MS25036-153	. . TERMINAL RING TONGUE			V70898	04 R
-	MS25036-156	. . TERMINAL RING TONGUE			V70898	01 R
-	MS27488-20	. . SEALING PLUG			V96906	08 R
9183P11	MS3476W22-55P	. PLUG			V96906	01 R
-	131741-3	. . MARKER BAND			V70898	01 R
-	52672	. . FIRE RESISTANT TAPE			V02988	01 R
-	D-436-0097	. . SEALING SLEEVE			V06090	01 R
-	D-436-0098	. . SEALING SLEEVE			V06090	01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT			V81349	55 R
-	M83519/2-7	. . SHIELD TERMINATION			V81343	01 R
-	M83519/2-8	. . SHIELD TERMINATION			V81343	13 R
-	M85049/52S22W	. . BACKSHELL			V81349	01 R
-	MS25036-149	. . TERMINAL RING TONGUE			V96906	01 R
-	MS25036-153	. . TERMINAL RING TONGUE			V96906	03 R
-	MS27488-20	. . SEALING PLUG			V96906	09 R
9183P3	MS3476W24-61PW	. PLUG RH CB PNL			V96906	01 R
-	131741-3	. . MARKER BAND			V70898	01 R
-	52672	. . FIRE RESISTANT TAPE			V02988	01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT			V81349	61 R
-	M83519/2-8	. . SHIELD TERMINATION			V81343	20 R
-	M85049/51S24W	. . BACKSHELL			V81349	01 R
-	MS25036-149	. . TERMINAL RING TONGUE			V70898	01 R
-	MS25036-153	. . TERMINAL RING TONGUE			V70898	02 R
-	MS27488-20	. . SEALING PLUG			V96906	08 R

- ITEM NOT ILLUSTRATED

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**



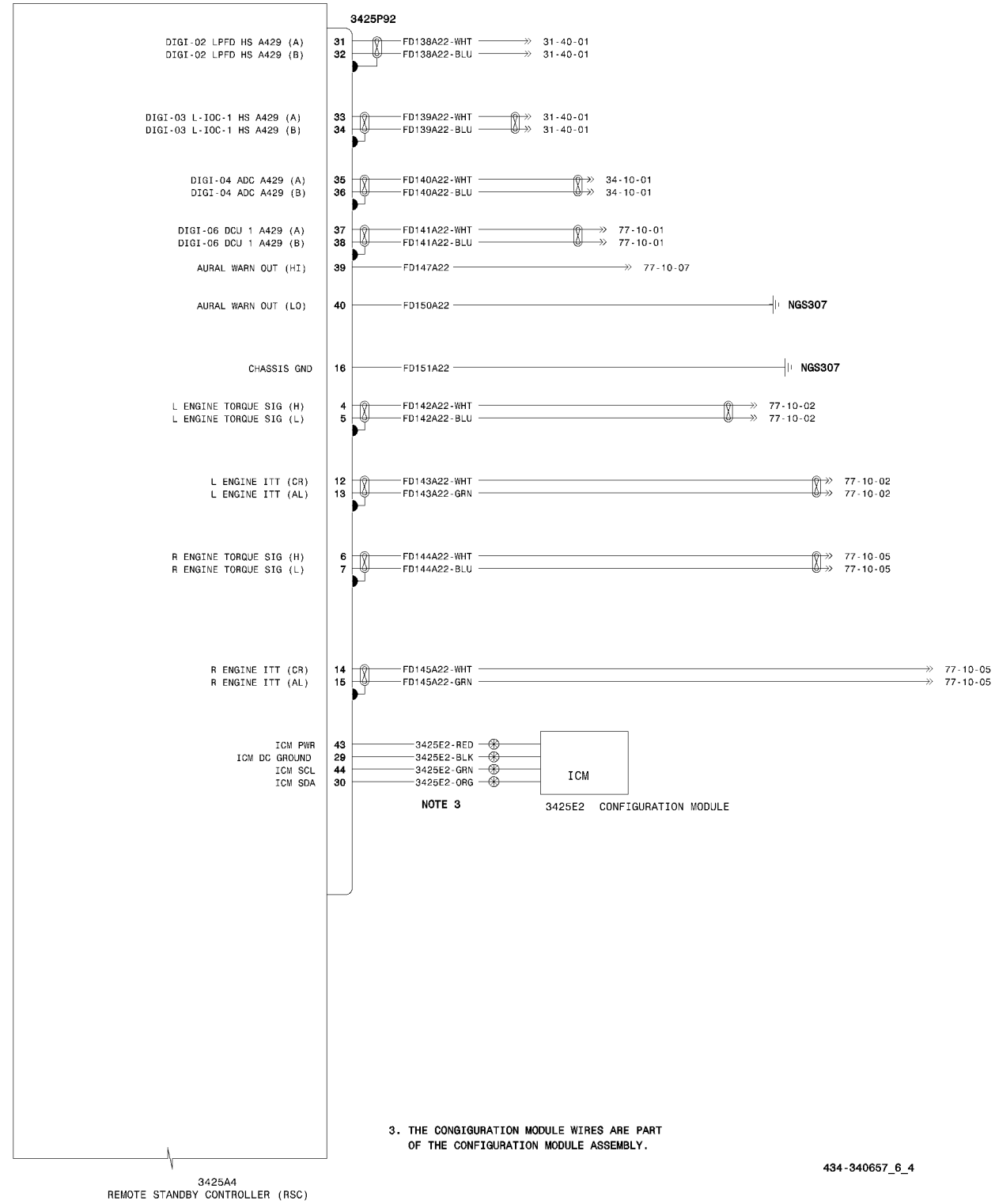
ELECTRONICS STANDBY INSTRUMENT SYSTEM - RSC  
 Figure 03 (Sheet 1)



BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
			1	2	3
9183P4	MS3476W24-61P	. PLUG FWD BKHD . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT . . . . .	V81349		61 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		16 R
-	M83519/2-9	. . SHIELD TERMINATION . . . . .	V81343		01 R
-	M85049/51S24W	. . BACKSHELL . . . . .	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS25036-153	. . TERMINAL RING TONGUE . . . . .	V70898		03 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		06 R
9183P6	MS3476W24-61PW	. PLUG FWD PRESS BKHD . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	D-181-1222-90/9	. . SOLDER SLEEVE . . . . .	V06090		01 R
-	D-436-0097	. . SEALING SLEEVE . . . . .	V06090		07 R
-	M39029/4-110	. . TERMINAL PIN CONTACT . . . . .	V81349		61 R
-	M83519/2-7	. . SHIELD TERMINATION . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		13 R
-	M85049/51S24W	. . BACKSHELL . . . . .	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS25036-153	. . TERMINAL RING TONGUE . . . . .	V70898		03 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		08 R
CDC303	200838-2	. RECEPTACLE, 34 POSITION GND BLK . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	193846-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779		01 R
-	201224-1	. . BACKSHELL . . . . .	V00779		01 R
-	201328-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779		11 R
-	203618-1	. . JACKSCREW . . . . .	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
NGS306		. GROUND STUD . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-103	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS25036-108	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
NGS307		. GROUND STUD . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-103	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
TGS305		. GROUND STUD . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-103	. . TERMINAL RING TONGUE . . . . .	V96906		01 R
-	MS25036-108	. . TERMINAL RING TONGUE . . . . .	V96906		01 R

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 WIRING DIAGRAM MANUAL

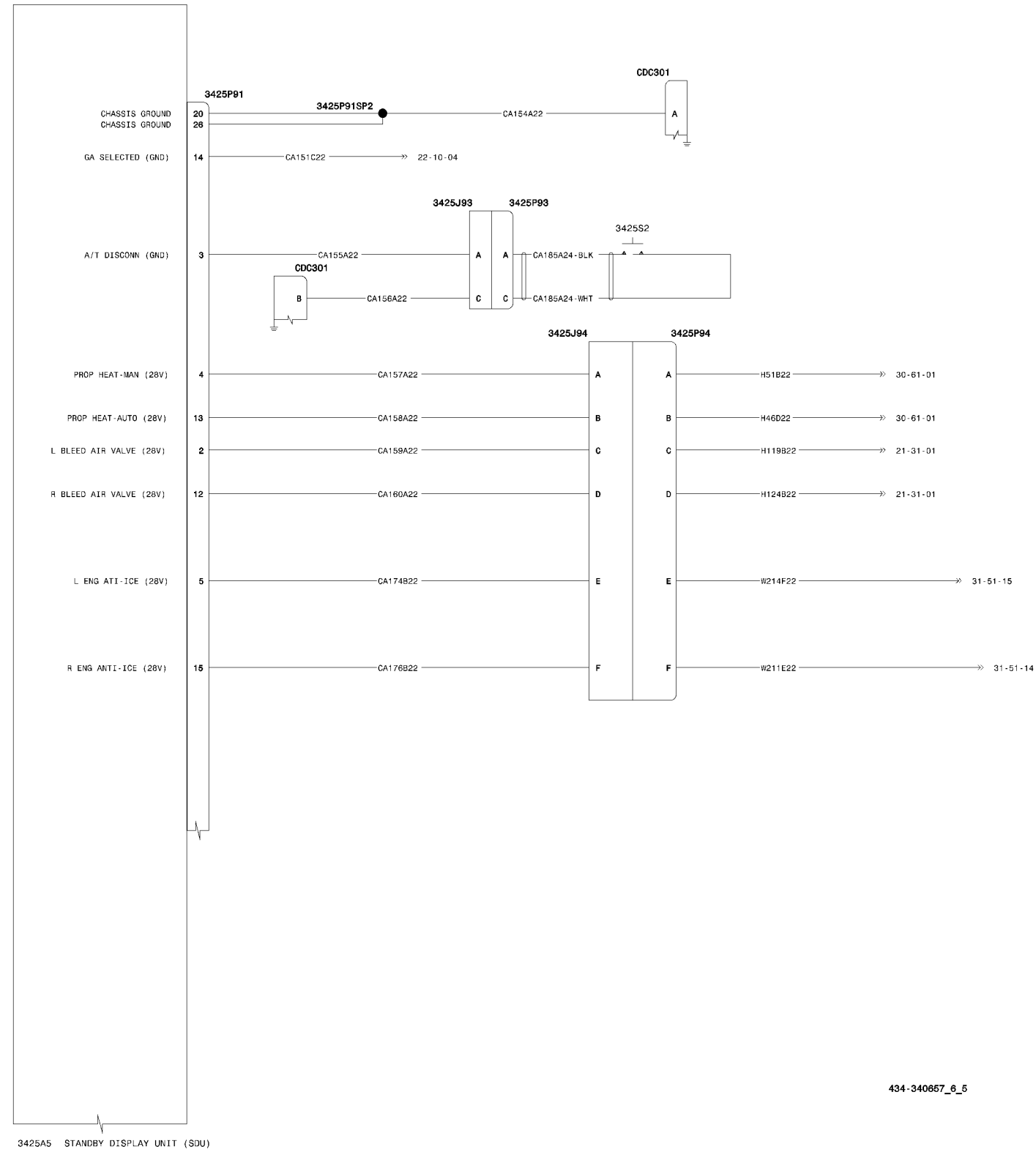


ELECTRONIC STANDBY INSTRUMENT SYSTEM  
 Figure 01 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
01		ELECTRONIC STANDBY INSTRUMENT SYSTEM	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
3425E2	9B-13964-300	. CONFIGURATION MODULE . . . . .	FL1300	FL1300	01 R
			FL1307	FL9999	
			FM0110	FM9999	
3425P92	M24308/2-13F	. CONNECTOR REMOTE STANDBY CONTROLLER . . . . . V81349	FL1300	FL1300	01 R
			FL1307	FL9999	
			FM0110	FM9999	
-	D25000ANE0	. . BACKSHELL	V28198		01 R
-	M39029/57-354	. . TERMINAL SOCKET CONTACT	V81349		19 R
-	M39029/89-495	. . TERMINAL SOCKET CONTACT ALUMEL	V96906		02 R
-	M39029/89-496	. . TERMINAL SOCKET CONTACT CHROMEL	V96906		02 R
-	MS25036-148	. . TERMINAL RING TONGUE	V96906		08 R
NGS307		. GROUND STUD . . . . .			RF R
-	131741-1	. . MARKER BAND	V70898		01 R
-	MS25036-103	. . TERMINAL RING TONGUE	V70898		01 R

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**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



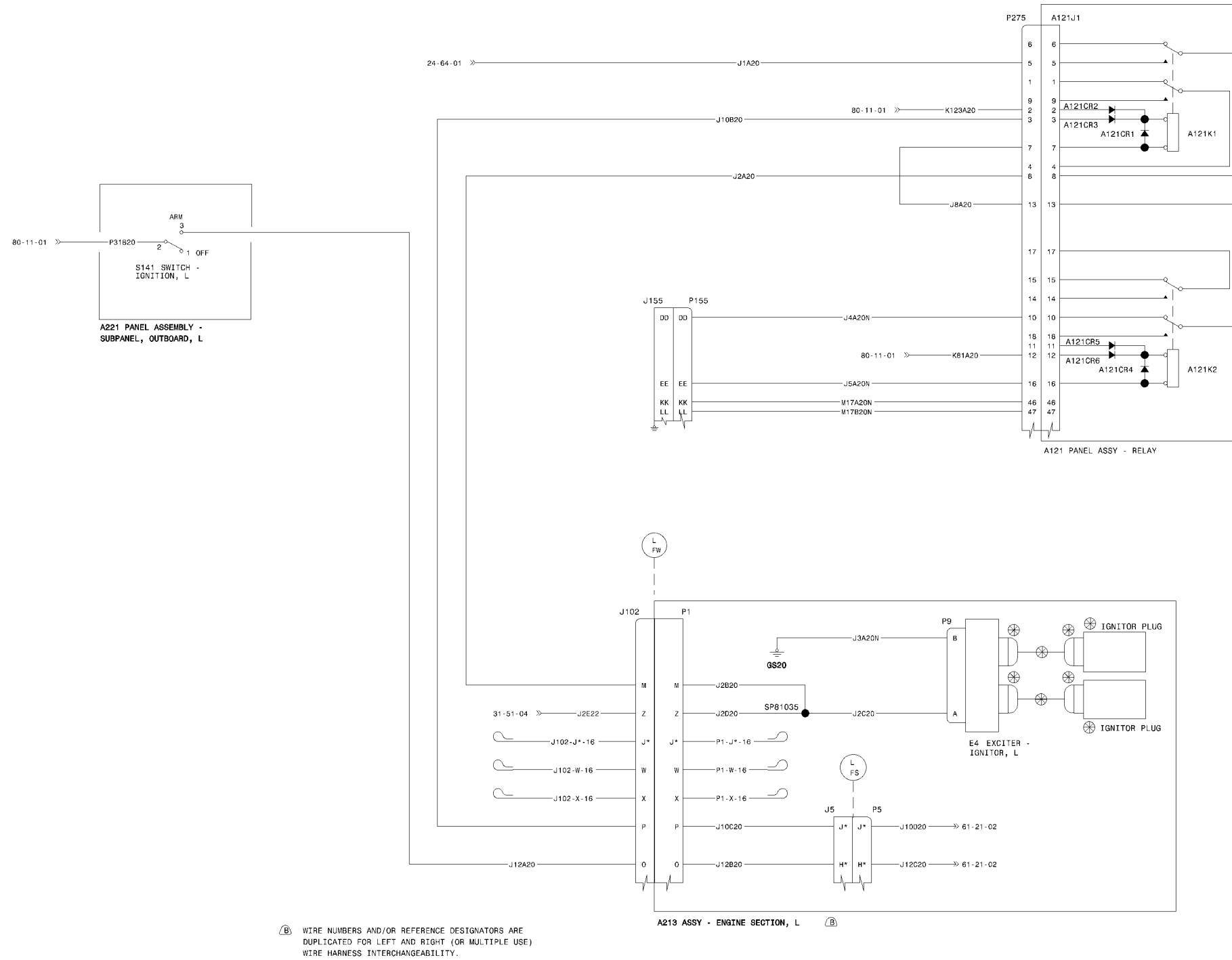
ELECTRONIC STANDBY INSTRUMENT SYSTEM  
 Figure 01 (Sheet 1)

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
01		ELECTRONIC STANDBY INSTRUMENT SYSTEM	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
3425J93	SJS830210	. 3 PIN PLUG . . . . .	V58982	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-3	. . MARKER BAND	V70898		01 R
-	M39029/57-354	. . 3 1 MARKER BAND 70898 M39029/57-354 2	V81349		02 R
3425J94	SJS830200	. RECEPTACLE . . . . .	V58982	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-3	. . MARKER BAND	V70898		01 R
-	M39029/58-360	. . TERMINAL PIN CONTACT	V81349		06 R
3425P91	M24308/2-12F	. CONNECTOR . . . . .	V81349	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	D15000GE0	. . BACKSHELL	V28198		01 R
-	M39029/57-354	. . TERMINAL SOCKET CONTACT	V81349		16 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		01 R
-	MS25036-148	. . TERMINAL RING TONGUE	V96906		01 R
3425P91	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300	01 R
SP2				FL1307 FL9999	
				FM0110 FM9999	
3425P93	SJS830230	. 3 PIN RECEPTACLE . . . . .	V58982	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-3	. . MARKER BAND	V70898		01 R
-	M39029/58-360	. . TERMINAL PIN CONTACT	V81349		02 R
3425P94	SJS830100	. PLUG . . . . .	V58982	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-3	. . MARKER BAND	V70898		01 R
-	M39029/57-354	. . TERMINAL SOCKET CONTACT	V81349		06 R
3425S2		. SWITCH . . . . .		FL1300 FL1300	RF R
				FL1307 FL9999	
				FM0110 FM9999	
CDC301	200838-2	. RECEPTACLE, 34 POSITION GND BLK. . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	193846-1	. . TERMINAL SOCKET CONTACT	V00779		01 R
-	201224-1	. . BACKSHELL	V00779		01 R
-	201328-1	. . TERMINAL SOCKET CONTACT	V00779		21 R
-	203618-1	. . TERMINAL SOCKET CONTACT	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R

- ITEM NOT ILLUSTRATED

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 WIRING DIAGRAM MANUAL



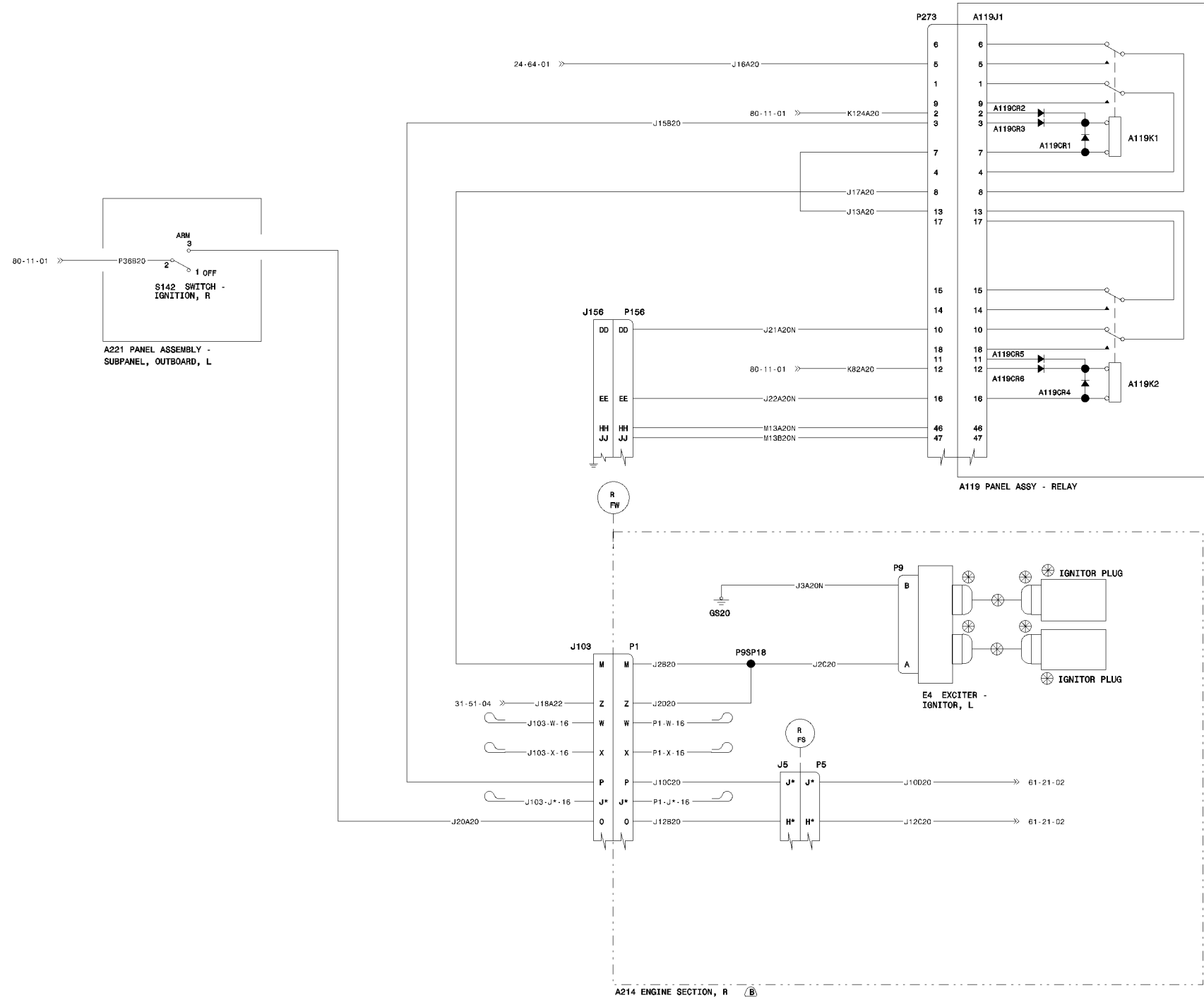
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LEFT ENGINE  
 Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
02		LEFT ENGINE	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
J102	MS3450KT36-8S	. RECEPTACLE NO. 1 FIREWALL, L (ZONE 521) . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	310-1620-091	. . TERMINAL SOCKET CONTACT			39 R
-	350AS001N36-3	. . BACKSHELL	V70898		01 R
-	D-436-0098	. . SEALING SLEEVE	V06090		01 R
-	L144	. . FIBERFRAX TAPE			01 R
-	M39029/30-218	. . TERMINAL SOCKET CONTACT	V81349		08 R
-	M39029/30-219	. . TERMINAL SOCKET CONTACT	V81349		01 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		07 R
P155	200838-3	. RECEPTACLE, 34 POSITION RELAY GND, L (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	201224-1	. . BACKSHELL	V00779		01 R
-	203618-1	. . JACKSCREW	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		25 R
P275	3-582307-1	. RECEPTACLE A121 RELAY PNL (ZONE 143). . . . .			01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	66010-2	. . TERMINAL CONTACT	V00779		34 R
S141		. SWITCH, TOGGLE ONE POLE AUTO IGN CONT, L (ZONE 245) . .			RF R
-	MS25036-102	. . TERMINAL RING TONGUE	V70898		03 R

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 WIRING DIAGRAM MANUAL



ⓑ WIRE NUMBERS AND/OR REFERENCE DESIGNATORS ARE  
 DUPLICATED FOR LEFT AND RIGHT (OR MULTIPLE USE)  
 WIRE HARNESS INTERCHANGEABILITY.

130-360740\_2\_3

RIGHT ENGINE  
 Figure 02 (Sheet 1)



BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
02		RIGHT ENGINE	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
GS20		. GROUND STUD .....			RF R
-	131287-1	. . LABEL STOCK			01 R
-	MS25036-108	. . TERMINAL RING TONGUE	V70898		01 R
J103	MS3450KT36-8S	. RECEPTACLE NO. 1 FIREWALL, R (ZONE 621) .....	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	310-1620-091	. . TERMINAL SOCKET CONTACT			39 R
-	350AS001N36-3	. . BACKSHELL			01 R
-	D-436-0098	. . SEALING SLEEVE	V06090		01 R
-	L144	. . FIBERFRAX TAPE			01 R
-	M39029/30-218	. . TERMINAL SOCKET CONTACT	V81349		07 R
-	M39029/30-219	. . TERMINAL SOCKET CONTACT	V81349		01 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		07 R
J5	MS3450L32-7S	. RECEPTACLE FIRE SEAL, R (ZONE 410) .....	V96906		01 R
-	131287-1	. . LABEL STOCK			01 R
-	131545SG14-0020	. . FIRESLEEVE FLAME RESISTANCE	V70898		01 R
-	131545SG18-0020	. . FIRESLEEVE FLAME RESISTANCE	V70898		01 R
-	M39029/30-218	. . TERMINAL SOCKET CONTACT	V81349		40 R
-	M39029/30-219	. . TERMINAL SOCKET CONTACT	V81349		07 R
-	M83519/1-3	. . SHIELD TERMINATION	V81343		07 R
-	M85049/52-1-36W	. . BACKSHELL	V81349		01 R
-	MS27488-12	. . SEALING PLUG	V96906		05 R
-	MS27488-16	. . SEALING PLUG	V96906		02 R
P156	200838-3	. RECEPTACLE, 34 POSITION RELAY GND, R (ZONE 143) .....	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	201224-1	. . BACKSHELL	V00779		01 R
-	203618-1	. . JACKSCREW	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT	V00779		02 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		27 R
P1	MS3456KT36-8P	. PLUG NO. 1 FIREWALL, R (ZONE 420) .....	V96906		01 R
-	131287-1	. . LABEL STOCK			01 R
-	131545SG14-0040	. . FIRESLEEVE FLAME RESISTANCE	V70898		01 R
-	360AJ001Z13620H-	. . BACKSHELL			01 R
-	M39029/29-212	. . TERMINAL PIN CONTACT	V81349		46 R
-	M39029/29-213	. . TERMINAL PIN CONTACT	V81349		01 R
-	M83519/1-3	. . SHIELD TERMINATION	V81343		07 R
	49				
P273	3-582307-1	. RECEPTACLE A119 RELAY PNL (ZONE 143) .....			01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	66010-2	. . TERMINAL CONTACT	V00779		23 R
-	66026-2	. . TERMINAL CONTACT			05 R
P5	MS3456KT36-7P	. PLUG FIRE SEAL, R (ZONE 410/420) .....	V96906		01 R
-	131287-1	. . LABEL STOCK			01 R
-	131545SG14-0020	. . FIRESLEEVE FLAME RESISTANCE	V70898		01 R
-	131545SG18-0020	. . FIRESLEEVE FLAME RESISTANCE	V70898		01 R
-	M39029/29-212	. . TERMINAL PIN CONTACT	V81349		70 R
-	M39029/29-213	. . TERMINAL PIN CONTACT	V81349		07 R
-	M83519/1-3	. . SHIELD TERMINATION	V81343		07 R
-	M85049/52-1-36W	. . BACKSHELL	V81349		01 R
-	MS27488-12	. . SEALING PLUG	V96906		05 R
-	MS27488-16	. . SEALING PLUG	V96906		02 R
P9	MS3456L12S-3S	. PLUG EXCITER IGNITER, L (ZONE 410/420) .....	V96906		01 R
-	131287-1	. . LABEL STOCK			01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/30-217	. . TERMINAL SOCKET CONTACT	V81349		02 R
-	M85049/51-1-12N	. . BACKSHELL	V81349		01 R
P9SP18	M81824/1-3	. SPLICE .....	V81343		01 R
S142		. SWITCH, TOGGLE TWO POLE AUTO IGN CONT, R (ZONE 245) ..			RF R
-	MS25036-102	. . TERMINAL RING TONGUE	V70898		03 R

- ITEM NOT ILLUSTRATED

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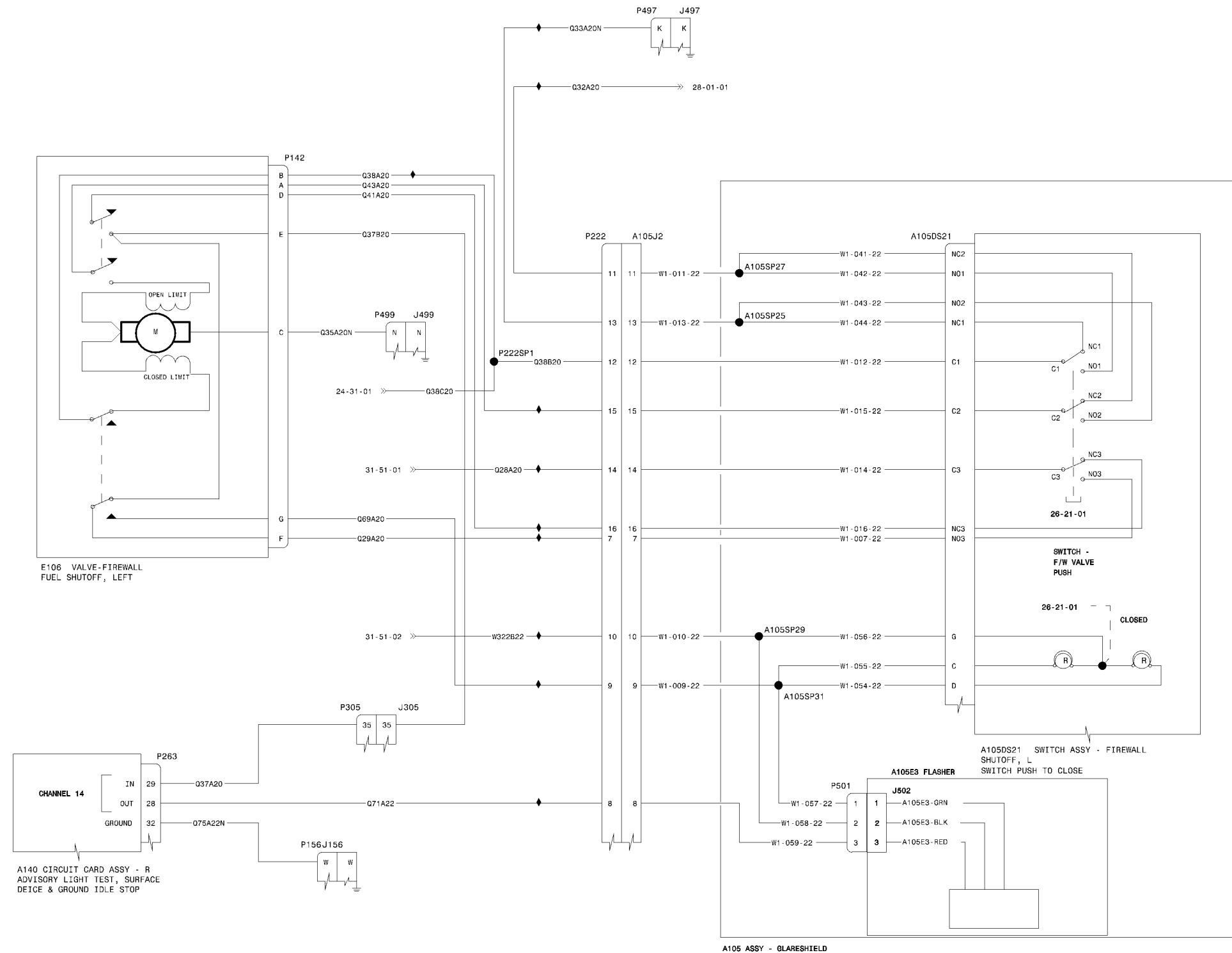
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Figure 02

Page 1

**74-11-02** Dec 02/2022

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 WIRING DIAGRAM MANUAL



◆ THESE WIRES TO BE ROUTED TOGETHER PER ENG FORWARD OF F.S. 150.00

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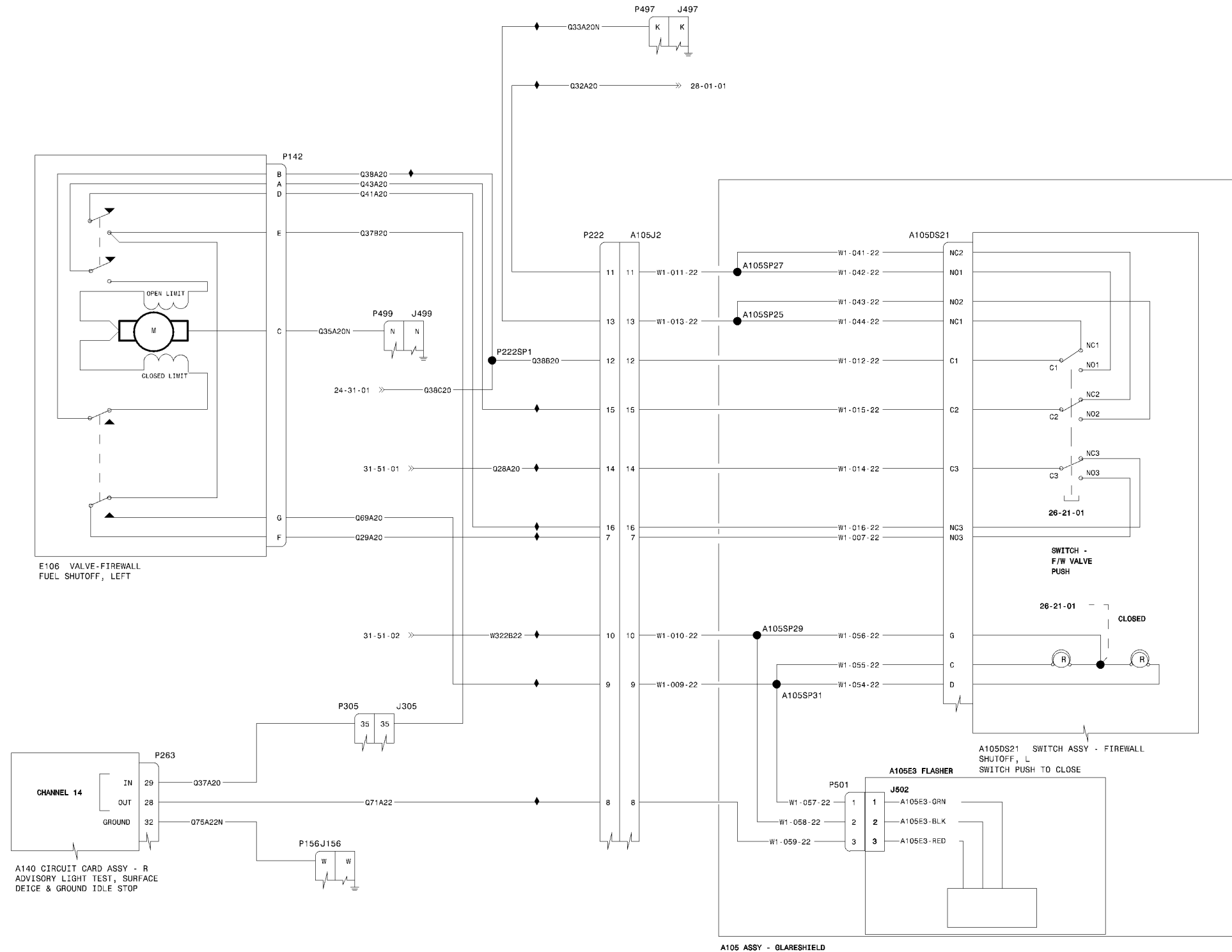
LEFT FUEL  
 Figure 03 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
03		LEFT FUEL	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
A105DS21	122-382170-1	. SWITCH, PUSHBUTTON FIREWALL SHUTOFF (ZONE 249) . . . . .			01 R
-	106242C42	. . HEATSHRINK . . . . .	V70898		16 R
-	SOLDER	. . TERMINAL CONTACT . . . . .	V81349		16 R
A105E3	90-03761	. MODULE FLASHER (3HZ 28 VDC) ANNUN FLASHER (ZONE 249)			01 R
A105J2	M24308/2-4	. RECPTACLE, 37 SOCKET GLARESHIELD ASSY (ZONE 249) . . . . .	V81349		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/63-368	. . TERMINAL SOCKET CONTACT . . . . .	V81349		16 R
-	M85049/48-2-4	. . BACKSHELL . . . . .	V81349		01 R
A105SP25	M81824/1-2	. SPLICE (ZONE 243) . . . . .	V81343		01 R
A105SP27	M81824/1-2	. SPLICE (ZONE 243) . . . . .	V81343		01 R
A105SP29	M81824/1-2	. SPLICE (ZONE 243) . . . . .	V81343		01 R
A105SP31	M81824/1-2	. SPLICE (ZONE 243) . . . . .	V81343		01 R
J305	205843-2	. RECEPTACLE CROSSOVER FWD (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	205089-1	. . TERMINAL PIN CONTACT . . . . .	V06090		50 R
-	206138-8	. . BACKSHELL CROSSOVER FWD . . . . .	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M83519/2-7	. . SHIELD TERMINATION . . . . .	V81343		02 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
P142	MS3456L16S-1S	. PLUG FUEL SHUTOFF VALVE, L (ZONE 521) . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/30-217	. . TERMINAL SOCKET CONTACT . . . . .	V81349		07 R
-	M85049/52-1-16N	. . BACKSHELL . . . . .	V81349		01 R
P156	200838-3	. RECEPTACLE, 34 POSITION RELAY GND, R (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	201224-1	. . BACKSHELL . . . . .	V00779		01 R
-	203618-1	. . JACKSCREW . . . . .	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		02 R
-	66105-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		27 R
P222	M24308/4-4	. PLUG (ZONE 249) . . . . .			01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/64-369	. . TERMINAL PIN CONTACT . . . . .	V81349		16 R
-	M85049/48-2-4F	. . BACKSHELL . . . . .	V81349		01 R
P222SP1	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
P263	3-582307-1	. RECEPTACLE ADVSY LT TEST SURF DEICE & GND, R (ZONE 143) . . . . .			01 R
-	101-364221-55	. . DECAL . . . . .	V70898		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	1-582156-9	. . KEYING CONTACT . . . . .	V00779		01 R
-	66010-2	. . TERMINAL CONTACT . . . . .	V00779		15 R
-	66026-2	. . TERMINAL CONTACT . . . . .			02 R
P305	205842-1	. PLUG CROSSOVER FWD (ZONE 143) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	205090-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779		49 R
-	206138-8	. . BACKSHELL . . . . .	V06090		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M83519/2-7	. . SHIELD TERMINATION . . . . .	V81343		02 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
P497	201298-3	. RECPTACLE 14 POSITION CAB GND, FWD (ZONE 261) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	200686-1	. . BACKSHELL . . . . .	V00779		01 R
-	203535-1	. . JACKSCREW . . . . .	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT . . . . .	V00779		04 R

- ITEM NOT ILLUSTRATED

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



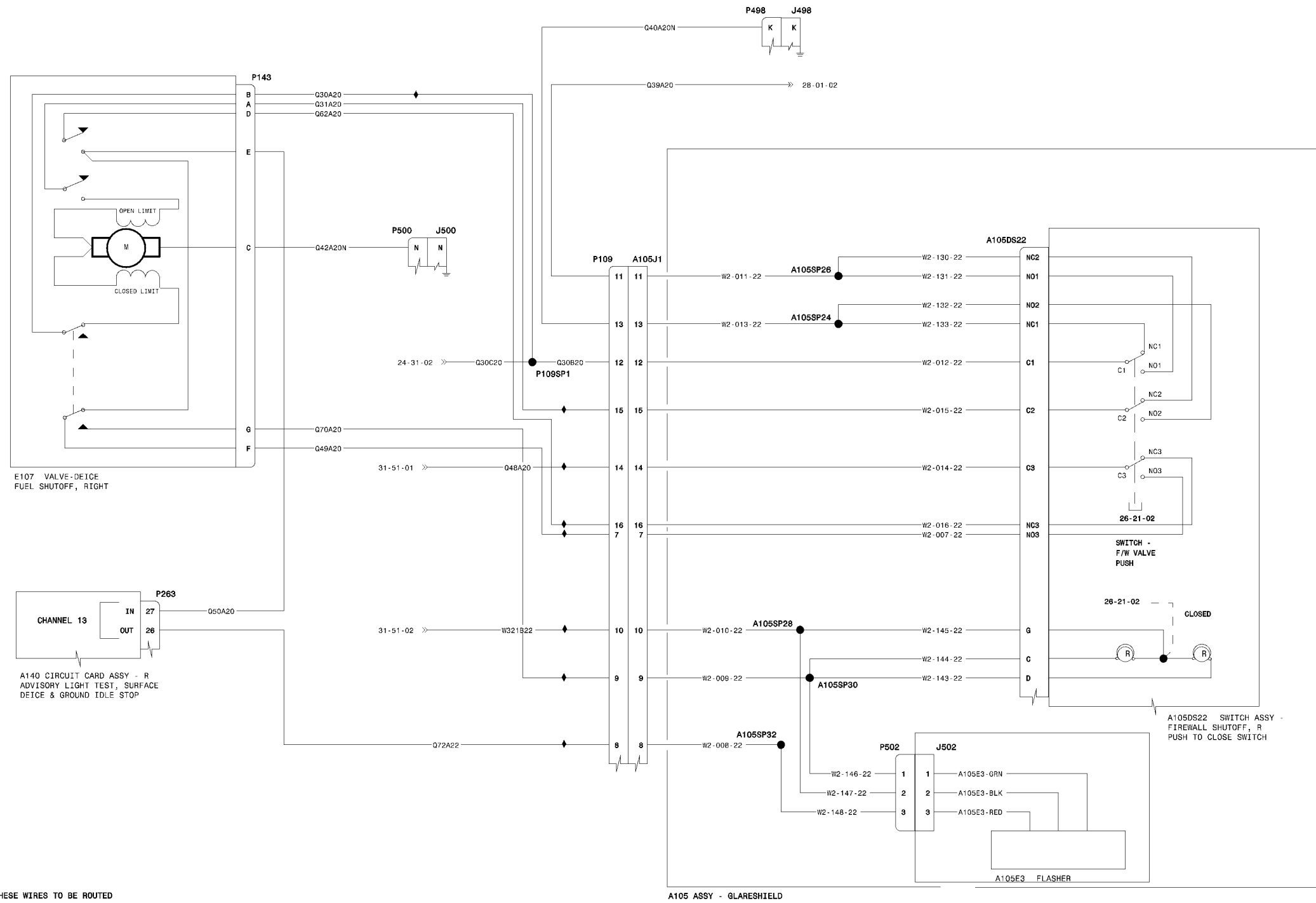
◆ THESE WIRES TO BE ROUTED TOGETHER PER ENG FORWARD OF F.S. 150.00

LEFT FUEL  
 Figure 03 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
P499	201298-3	. RECPTACLE 14 POSITION CENTER SECTION GND, L (ZONE 511) .....	V00779		01 R
-	131741-3	. . MARKER BAND .....	V70898		01 R
-	200686-1	. . BACKSHELL .....	V00779		01 R
-	203535-1	. . JACKSCREW .....	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE .....	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT .....	V00779		01 R
-	66105-4	. . TERMINAL SOCKET CONTACT .....	V00779		AR R
P501	1-480700-0	. PLUG, 3 CIRCUIT .....	V00779	FL1140 FL9999 FM0076FM9999	01 R
-	350690-2	. . TERMINAL PIN CONTACT .....	V00779		02 R

**BEECHCRAFT®  
MODEL B300/B300C FUSION  
WIRING DIAGRAM MANUAL**



◆ THESE WIRES TO BE ROUTED TOGETHER PER ENG FORWARD OF F.S. 150.00

434-360034\_16\_147

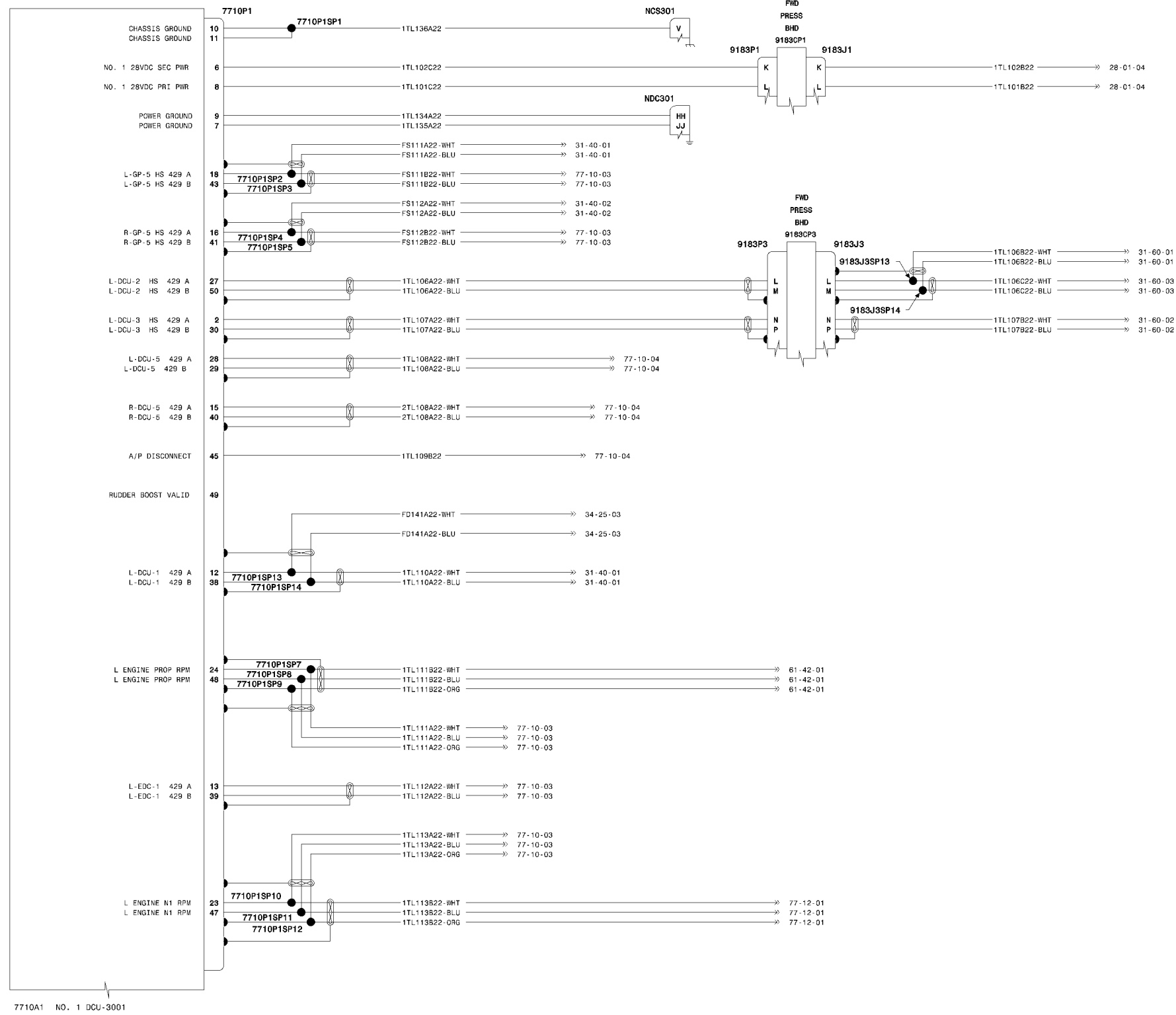
RIGHT FUEL  
Figure 03 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG	REF	PART NUMBER	NOMENCLATURE	EFFECTIVITY	UNITS
DES				FROM TO	PER ASSY
03			RIGHT FUEL	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	
	A105DS22	122-382170-1	. SWITCH, PUSHBUTTON FIREWALL SHUTOFF (ZONE 249) . . . .		01 R
-		106242C42	. . HEATSHRINK . . . . . V70898		16 R
-		SOLDER	. . TERMINAL CONTACT . . . . .		16 R
	A105E3	90-03761	. MODULE FLASHER (3HZ 28 VDC) ANNUN FLASHER (ZONE 249)		01 R
	A105J1	M24308/2-5	. RECPTACLE, 50 SOCKET GLARESHIELD ASSY (ZONE 249) . . . . V81349		01 R
-		131741-3	. . MARKER BAND . . . . . V70898		01 R
-		52672	. . FIRE RESISTANT TAPE . . . . . V02988		01 R
-		M39029/63-368	. . TERMINAL SOCKET CONTACT . . . . . V81349		27 R
-		M85049/48-2-5	. . BACKSHELL . . . . . V81349		01 R
	A105SP24	M81824/1-2	. SPLICE (ZONE 243) . . . . . V81343		01 R
	A105SP26	M81824/1-2	. SPLICE (ZONE 243) . . . . . V81343		01 R
	A105SP28	M81824/1-2	. SPLICE (ZONE 243) . . . . . V81343		01 R
	A105SP30	M81824/1-2	. SPLICE (ZONE 243) . . . . . V81343		01 R
	A105SP32	M81824/1-1	. SPLICE (ZONE 243) . . . . . V81343		01 R
	J502	1-480701-0	. RECEPTACLE CAP 3 CIRCUIT . . . . . V00779	FL1140 FL9999 FM0076FM9999	01 R
-		350689-2	. . TERMINAL SOCKET CONTACT . . . . . V00779		03 R
	P109	M24308/4-5	. PLUG, 50 PIN GLARESHIELD (ZONE 249). . . . .		01 R
-		131741-3	. . MARKER BAND . . . . . V70898		01 R
-		52672	. . FIRE RESISTANT TAPE . . . . . V02988		01 R
-		M39029/64-369	. . TERMINAL PIN CONTACT . . . . . V81349		27 R
-		M85049/48-2-5	. . BACKSHELL . . . . . V81349		01 R
	P109SP1	M81824/1-2	. SPLICE . . . . . V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
	P143	MS3456L16S-1S	. PLUG FUEL SHUTOFF VALVE, R (ZONE 621) . . . . . V96906		01 R
-		131741-3	. . MARKER BAND . . . . . V70898		01 R
-		52672	. . FIRE RESISTANT TAPE . . . . . V02988		01 R
-		M39029/30-217	. . TERMINAL SOCKET CONTACT . . . . . V81349		07 R
-		M85049/51-1-16N	. . BACKSHELL . . . . . V81349		01 R
	P263	3-582307-1	. RECEPTACLE ADVSY LT TEST SURF DEICE & GND, R (ZONE 143) . . . . .		01 R
-		101-364221-55	. . DECAL . . . . . V70898		01 R
-		131741-3	. . MARKER BAND . . . . . V70898		01 R
-		1-582156-9	. . KEYING CONTACT . . . . . V00779		01 R
-		66010-2	. . TERMINAL CONTACT . . . . . V00779		15 R
-		66026-2	. . TERMINAL CONTACT . . . . .		02 R
	P498	201298-3	. RECPTACLE 14 POSITION CAB GND, FWD (ZONE 262) . . . . . V00779		01 R
-		131741-3	. . MARKER BAND . . . . . V70898		01 R
-		200686-1	. . BACKSHELL . . . . . V00779		01 R
-		203535-1	. . JACKSCREW . . . . . V00779		02 R
-		52672	. . FIRE RESISTANT TAPE . . . . . V02988		01 R
-		66101-4	. . TERMINAL SOCKET CONTACT . . . . . V00779		01 R
-		66105-4	. . TERMINAL SOCKET CONTACT . . . . . V00779		AR R
	P500	201298-3	. RECPTACLE 14 POSITION CENTER SECTION GND, R (ZONE 511) . . . . . V00779		01 R
-		131741-3	. . MARKER BAND . . . . . V70898		01 R
-		200686-1	. . BACKSHELL . . . . . V00779		01 R
-		203535-1	. . JACKSCREW . . . . . V00779		02 R
-		52672	. . FIRE RESISTANT TAPE . . . . . V02988		01 R
-		66101-4	. . TERMINAL SOCKET CONTACT . . . . . V00779		01 R
-		66105-4	. . TERMINAL SOCKET CONTACT . . . . . V00779		12 R
	P502	1-480700-0	. PLUG, 3 CIRCUIT . . . . . V00779	FL1140 FL9999 FM0076FM9999	01 R
-		131741-3	. . MARKER BAND . . . . . V70898		01 R
-		350690-2	. . TERMINAL PIN CONTACT . . . . . V00779		03 R

- ITEM NOT ILLUSTRATED

# BEECHCRAFT® MODEL B300/B300C FUSION WIRING DIAGRAM MANUAL



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ENGINE INDICATING - NO. 1 DCU  
Figure 03 (Sheet 1)

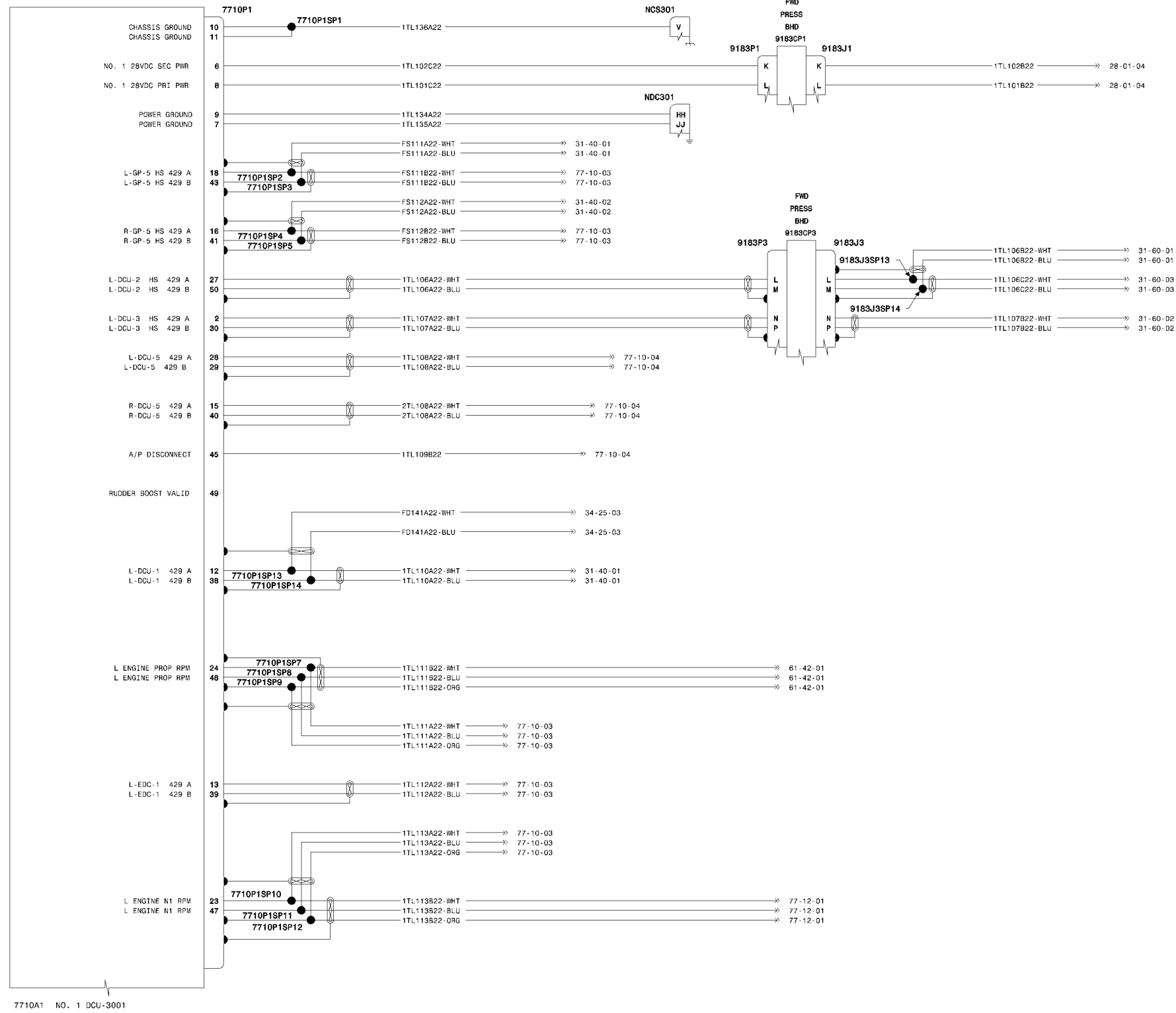


**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
03		ENGINE INDICATING - NO. 1 DCU	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
7710P1	D38999/26FG35SN	. PLUG DATA CONCENTRATOR NO. 1 . . . . .	V81349		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/56-348	. . TERMINAL SOCKET CONTACT . . . . .	V81349		79 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		06 R
-	M85049/39S21N	. . BACKSHELL . . . . .	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
-	MS25036-153	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
-	MS27488-22	. . SEALING PLUG . . . . .	V96906		52 R
7710P1S- P10	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
7710P1S- P11	M81824/1-2	. SPLICE . . . . .	V81343		01 R
7710P1S- P12	M81824/1-2	. SPLICE . . . . .	V81343		01 R
7710P1S- P13	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		01 R
7710P1S- P14	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
7710P1 SP1	M81824/1-2	. SPLICE . . . . .	V81343		01 R
7710P1 SP2	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
7710P1 SP3	M81824/1-2	. SPLICE . . . . .	V81343		01 R
7710P1 SP4	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
7710P1 SP5	M81824/1-2	. SPLICE . . . . .	V81343		01 R
7710P1 SP7	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
7710P1 SP8	M81824/1-2	. SPLICE . . . . .	V81343		01 R
7710P1 SP9	M81824/1-2	. SPLICE . . . . .	V81343		01 R
9183J1	MS3476W22-41S	. PLUG FWD PRESS BKHD . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT . . . . .	V81349		27 R
-	M39029/5-116	. . TERMINAL SOCKET CONTACT . . . . .	V81349		14 R
-	M83519/2-10	. . SHIELD TERMINATION . . . . .	V81343		02 R
-	M85049/52S22W	. . BACKSHELL . . . . .	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
-	MS27488-16	. . SEALING PLUG . . . . .	V96906		07 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		10 R
9183J3	MS3476W24-61SW	. PLUG . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT . . . . .	V81349		46 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		13 R
-	M85049/52S24W	. . BACKSHELL . . . . .	V81349		01 R
-	MS25036-153	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
-	MS25036-156	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
-	MS27488-20	. . SEALING PLUG . . . . .	V96906		15 R
9183J3S- P13	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
9183J3S- P14	M81824/1-2	. SPLICE . . . . .	V81343		01 R

- ITEM NOT ILLUSTRATED

# BEECHCRAFT® MODEL B300/B300C FUSION WIRING DIAGRAM MANUAL

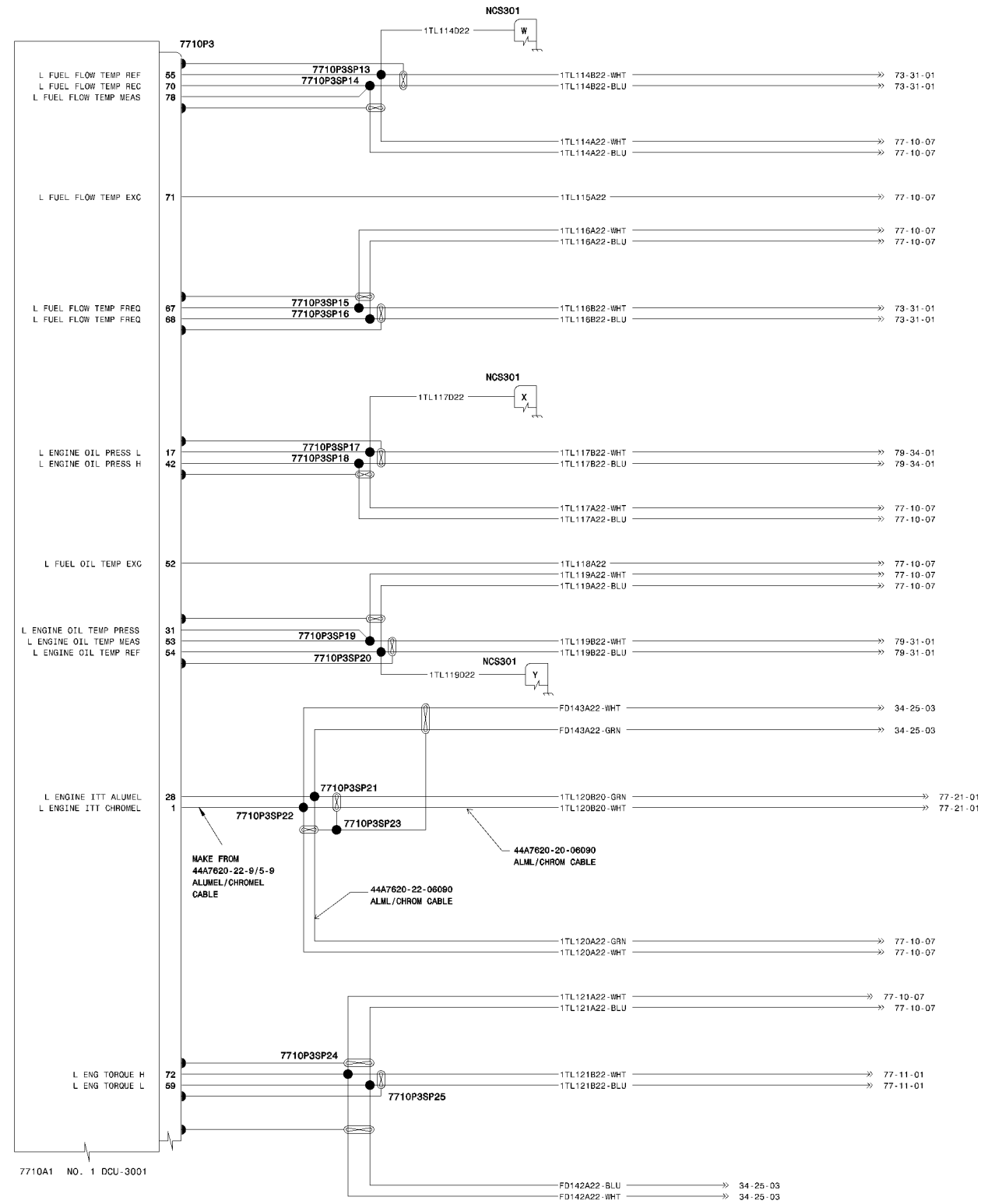


ENGINE INDICATING - NO. 1 DCU  
Figure 03 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
		1 2 3 4 5 6 7			
9183P1	MS3476W22-41P	. PLUG FWD PRESS BKHD . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT	V81349		27 R
-	M39029/4-111	. . TERMINAL PIN CONTACT	V81349		14 R
-	M83519/2-10	. . SHIELD TERMINATION	V81343		02 R
-	M85049/51S22W	. . BACKSHELL	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE	V70898		01 R
-	MS27488-16	. . SEALING PLUG	V96906		07 R
-	MS27488-20	. . SEALING PLUG	V96906		10 R
9183P3	MS3476W24-61PW	. PLUG RH CB PNL . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT	V81349		61 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		20 R
-	M85049/51S24W	. . BACKSHELL	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE	V70898		01 R
-	MS25036-153	. . TERMINAL RING TONGUE	V70898		02 R
-	MS27488-20	. . SEALING PLUG	V96906		08 R
NCS301	200838-2	. RECEPTACLE, 34 POSITION GND BLK. . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	201224-1	. . BACKSHELL	V00779		01 R
-	201328-1	. . TERMINAL SOCKET CONTACT	V00779		29 R
-	202508-1	. . TERMINAL SOCKET CONTACT	V00779		04 R
-	203618-1	. . JACKSCREW	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
NDC301	200838-2	. RECEPTACLE, 34 POSITION GND BLK. . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	201224-1	. . BACKSHELL	V00779		01 R
-	201328-1	. . TERMINAL SOCKET CONTACT	V00779		24 R
-	202508-1	. . TERMINAL SOCKET CONTACT	V00779		08 R
-	203618-1	. . JACKSCREW	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



434-340669\_8\_3

ENGINE INDICATING - NO. 1 DCU  
 Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY FROM TO	UNITS PER ASSY
		1 2 3 4 5 6 7		
02		ENGINE INDICATING - NO. 1 DCU	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	
-	7710P3- P13	D38999/26FG35SB . . . PLUG DATA CONCENTRATOR UNIT (DCU-3001) . . . . .	V81349	01 R
-		131741-3 . . . MARKER BAND . . . . .	V70898	01 R
-		52672 . . . FIRE RESISTANT TAPE . . . . .	V02988	01 R
-		M39029/56-348 . . . TERMINAL SOCKET CONTACT . . . . .	V81349	77 R
-		M39029/88-483 . . . TERMINAL SOCKET CONTACT ALUMEL . . . . .	V81349	01 R
-		M39029/88-484 . . . TERMINAL SOCKET CONTACT CHROMEL . . . . .	V81349	01 R
-		M85049/39S21N . . . BACKSHELL . . . . .	V81349	01 R
-		MS25036-153 . . . TERMINAL RING TONGUE . . . . .	V70898	03 R
-		MS27488-22 . . . SEALING PLUG . . . . .	V96906	40 R
-	7710P3S- P13	M81824/1-2 . . . SPLICE . . . . .	V81343	01 R
-		M83519/2-8 . . . SHIELD TERMINATION . . . . .	V81343	02 R
-	7710P3S- P14	M81824/1-2 . . . SPLICE . . . . .	V81343	01 R
-	7710P3S- P15	M81824/1-2 . . . SPLICE . . . . .	V81343	01 R
-		M83519/2-8 . . . SHIELD TERMINATION . . . . .	V81343	02 R
-	7710P3S- P16	M81824/1-2 . . . SPLICE . . . . .	V81343	01 R
-	7710P3S- P17	M81824/1-2 . . . SPLICE . . . . .	V81343	01 R
-		M83519/2-8 . . . SHIELD TERMINATION . . . . .	V81343	02 R
-	7710P3S- P18	M81824/1-2 . . . SPLICE . . . . .	V81343	01 R
-	7710P3S- P19	M81824/1-2 . . . SPLICE . . . . .	V81343	01 R
-		M83519/2-8 . . . SHIELD TERMINATION . . . . .	V81343	02 R
-	7710P3S- P20	M81824/1-2 . . . SPLICE . . . . .	V81343	01 R
-	7710P3S- P21	1-322325-0 . . . SPLICE ALUMEL . . . . .	V00779	01 R
-	7710P3S- P22	1-322325-1 . . . SPLICE CHROMEL . . . . .	V00779	01 R
-		M83519/2-8 . . . SHIELD TERMINATION . . . . .	V81343	02 R
-	7710P3S- P23	D-436-58 . . . SPLICE . . . . .	V06090	01 R
-	7710P3S- P24	M81824/1-2 . . . SPLICE . . . . .	V81343	01 R
-		M83519/2-8 . . . SHIELD TERMINATION . . . . .	V81343	02 R
-	7710P3S- P25	M81824/1-2 . . . SPLICE . . . . .	V81343	01 R
-	NCS301	200838-2 . . . RECEPTACLE, 34 POSITION GND BLK. . . . .	V00779	01 R
-		131741-3 . . . MARKER BAND . . . . .	V70898	01 R
-		201224-1 . . . BACKSHELL . . . . .	V00779	01 R
-		201328-1 . . . TERMINAL SOCKET CONTACT . . . . .	V00779	29 R
-		202508-1 . . . TERMINAL SOCKET CONTACT . . . . .	V00779	04 R
-		203618-1 . . . JACKSCREW . . . . .	V00779	02 R
-		52672 . . . FIRE RESISTANT TAPE . . . . .	V02988	01 R

- ITEM NOT ILLUSTRATED

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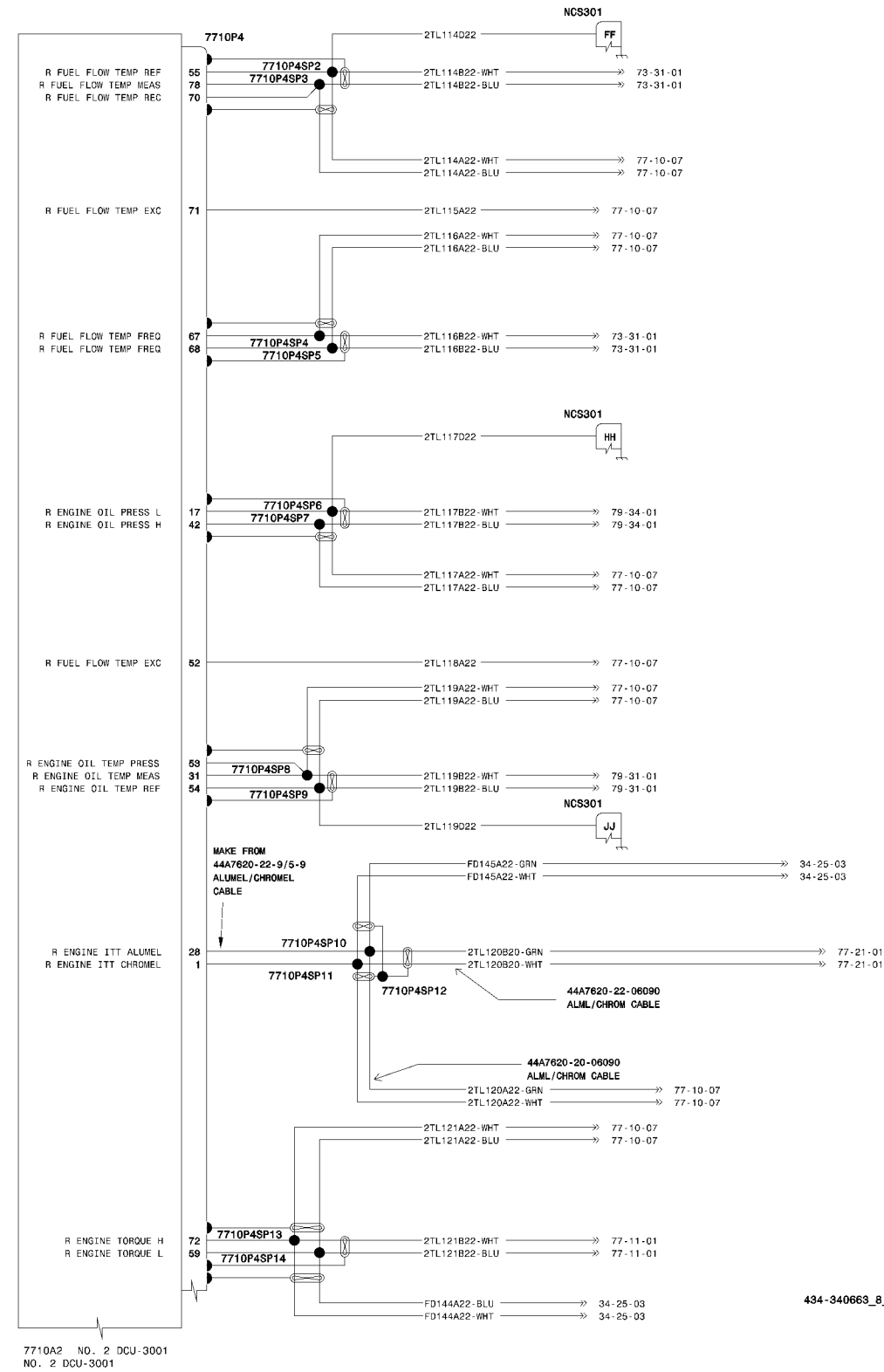
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Figure 02

Page 1

**77-10-02** Dec 02/2022

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



434-340663\_B\_6

ENGINE INDICATING - NO. 2 DCU  
 Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
02		ENGINE INDICATING - NO. 2 DCU	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
7710P4	D38999/26FG35SB	. PLUG DATA CONCENTRATOR UNIT (DCU-3001) . . . . .	V81349		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R
-	M39029/56-348	. . TERMINAL SOCKET CONTACT . . . . .	V81349		77 R
-	M39029/88-483	. . TERMINAL SOCKET CONTACT ALUMEL . . . . .	V81349		01 R
-	M39029/88-484	. . TERMINAL SOCKET CONTACT CHROMEL . . . . .	V81349		01 R
-	M85049/39S21N	. . BACKSHELL . . . . .	V81349		01 R
-	MS25036-153	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
-	MS27488-22	. . SEALING PLUG . . . . .	V96906		40 R
7710P4S- P10	1-322325-0	. SPLICE ALUMEL . . . . .	V00779		01 R
7710P4S- P11	1-322325-1	. SPLICE CHROMEL . . . . .	V00779		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
7710P4S- P12	D-436-58	. SPLICE . . . . .	V06090		01 R
7710P4S- P13	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
7710P4S- P14	M81824/1-2	. SPLICE . . . . .	V81343		01 R
7710P4 SP2	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
7710P4 SP3	M81824/1-2	. SPLICE . . . . .	V81343		01 R
7710P4 SP4	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
7710P4 SP5	M81824/1-2	. SPLICE . . . . .	V81343		01 R
7710P4 SP6	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
7710P4 SP7	M81824/1-2	. SPLICE . . . . .	V81343		01 R
7710P4 SP8	M81824/1-2	. SPLICE . . . . .	V81343		01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		02 R
7710P4 SP9	M81824/1-2	. SPLICE . . . . .	V81343		01 R
NCS301	200838-2	. RECEPTACLE, 34 POSITION GND BLK. . . . .	V00779		01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	201224-1	. . BACKSHELL . . . . .	V00779		01 R
-	201328-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779		29 R
-	202508-1	. . TERMINAL SOCKET CONTACT . . . . .	V00779		04 R
-	203618-1	. . JACKSCREW . . . . .	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE . . . . .	V02988		01 R

- ITEM NOT ILLUSTRATED

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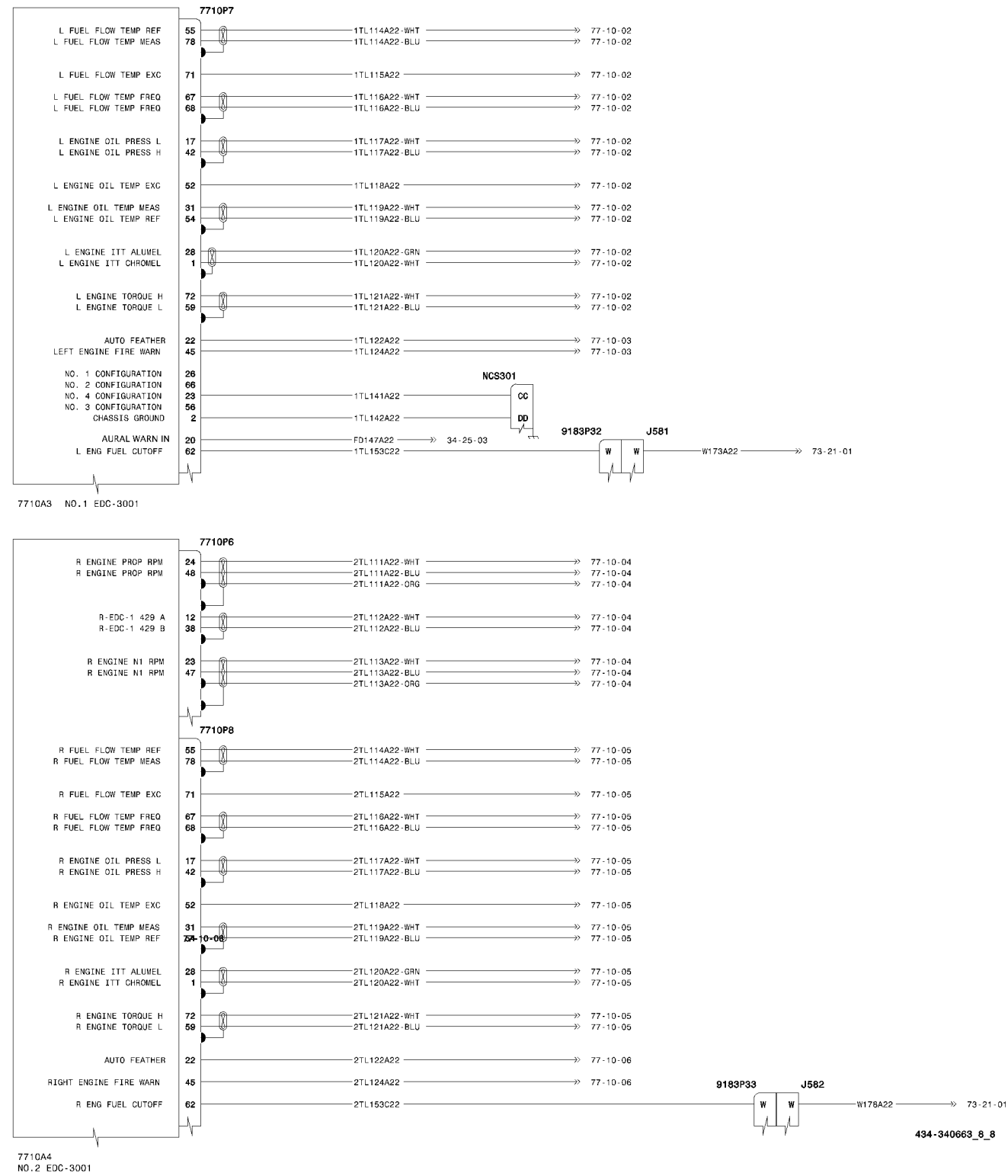
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Figure 02

Page 1

**77-10-05** Dec 02/2022

# BEECHCRAFT® MODEL B300/B300C FUSION WIRING DIAGRAM MANUAL



ENGINE INDICATING - NO. 1 & NO. 2 EDC  
Figure 02 (Sheet 1)

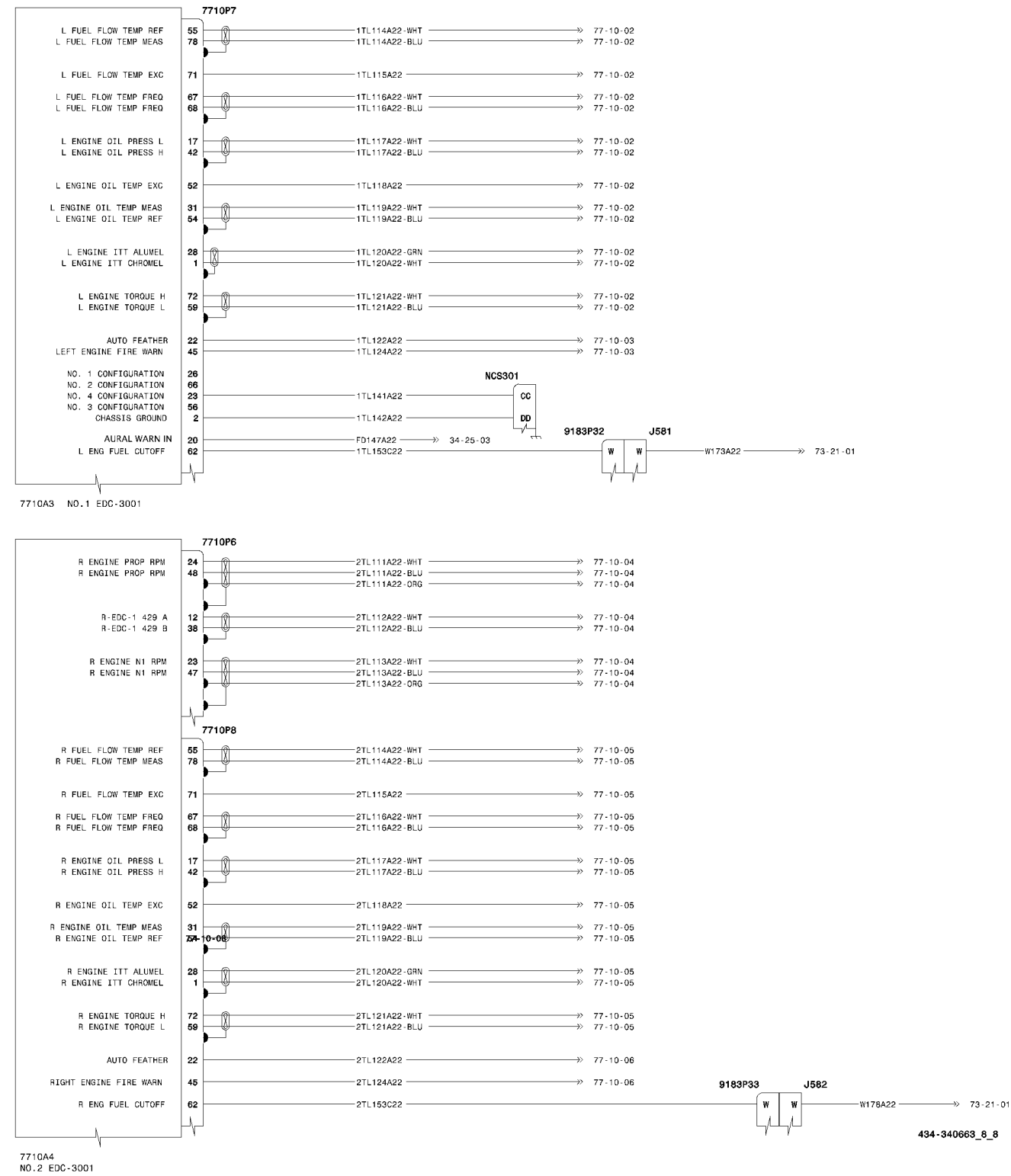


BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
02		ENGINE INDICATING - NO. 1 & NO. 2 EDC	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
7710P6	D38999/26FG35SN	. PLUG ENG DATA CONCENTRATOR (EDC-3001) . . . . .	V81349		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/56-348	. . TERMINAL SOCKET CONTACT	V81349		79 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		09 R
-	M85049/39S21N	. . BACKSHELL	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE	V70898		01 R
-	MS25036-153	. . TERMINAL RING TONGUE	V70898		02 R
-	MS27488-22	. . SEALING PLUG	V96906		57 R
7710P7	D38999/26FG35SB	. PLUG ENG DATA CONCENTRATOR (EDC-3001) . . . . .	V81349		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/56-348	. . TERMINAL SOCKET CONTACT	V81349		77 R
-	M39029/88-483	. . TERMINAL SOCKET CONTACT ALUMEL	V81349		01 R
-	M39029/88-484	. . TERMINAL SOCKET CONTACT CHROMEL	V81349		01 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		06 R
-	M85049/39S21N	. . BACKSHELL	V81349		01 R
-	MS25036-153	. . TERMINAL RING TONGUE	V70898		01 R
-	MS27488-22	. . SEALING PLUG	V96906		51 R
7710P8	D38999/26FG35SB	. PLUG ENG DATA CONCENTRATOR (EDC-3001) . . . . .	V81349		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/56-348	. . TERMINAL SOCKET CONTACT	V81349		07 R
-	M39029/88-483	. . TERMINAL SOCKET CONTACT ALUMEL	V81349		01 R
-	M39029/88-484	. . TERMINAL SOCKET CONTACT CHROMEL	V81349		01 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		06 R
-	M85049/39S21N	. . BACKSHELL	V81349		01 R
-	MS25036-153	. . TERMINAL RING TONGUE	V70898		01 R
-	MS27488-22	. . SEALING PLUG	V96906		49 R
9183P32	MS3476W22-41P	. PLUG ENG SIGNAL, L (ZONE 231) . . . . .	V96906		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT	V81349		25 R
-	M39029/4-111	. . TERMINAL PIN CONTACT	V81349		09 R
-	M39029/4-112	. . TERMINAL PIN CONTACT	V81349		05 R
-	M39029/9-134	. . TERMINAL PIN CONTACT ALUMEL	V81349		01 R
-	M39029/9-135	. . TERMINAL PIN CONTACT CHROMEL	V81349		01 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		08 R
-	M85049/52S22W	. . BACKSHELL	V81349		01 R
-	MS25036-153	. . TERMINAL RING TONGUE	V70898		02 R
-	MS27488-16	. . SEALING PLUG	V96906		09 R
-	MS27488-20	. . SEALING PLUG	V96906		01 R
9183P33	MS3476W22-41PW	. PLUG ENG SIGNAL, R (ZONE 231) . . . . .	V96906		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT	V81349		25 R
-	M39029/4-111	. . TERMINAL PIN CONTACT	V81349		11 R
-	M39029/4-112	. . TERMINAL PIN CONTACT	V81349		03 R
-	M39029/9-134	. . TERMINAL PIN CONTACT ALUMEL	V81349		01 R
-	M39029/9-135	. . TERMINAL PIN CONTACT CHROMEL	V81349		01 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		08 R
-	M85049/52S22W	. . BACKSHELL	V81349		01 R
-	MS25036-153	. . TERMINAL RING TONGUE	V70898		02 R
-	MS27488-16	. . SEALING PLUG	V96906		11 R

- ITEM NOT ILLUSTRATED

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**

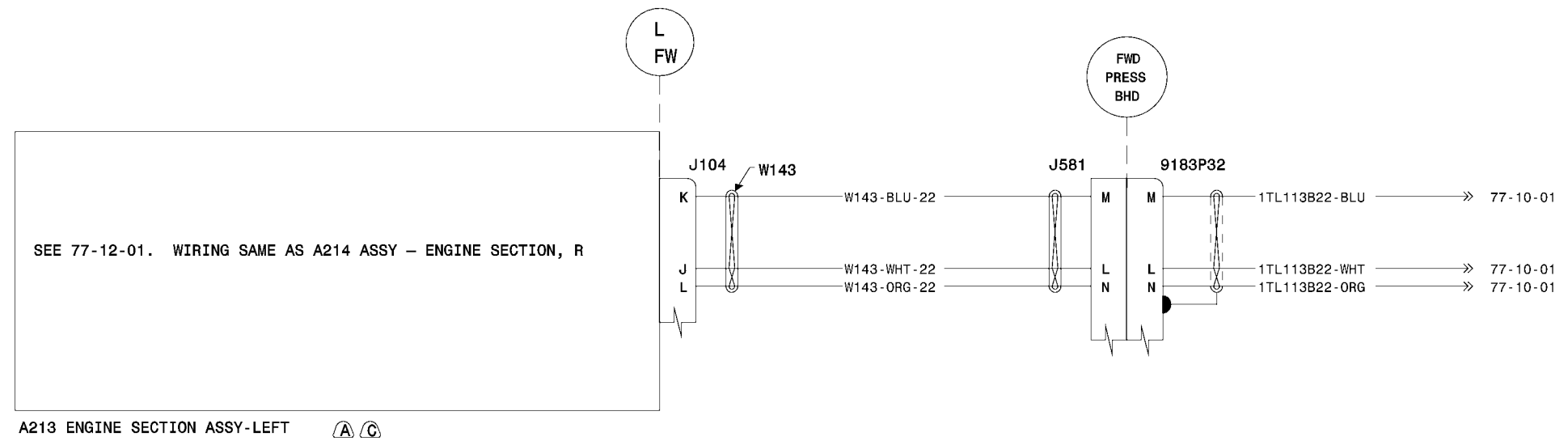
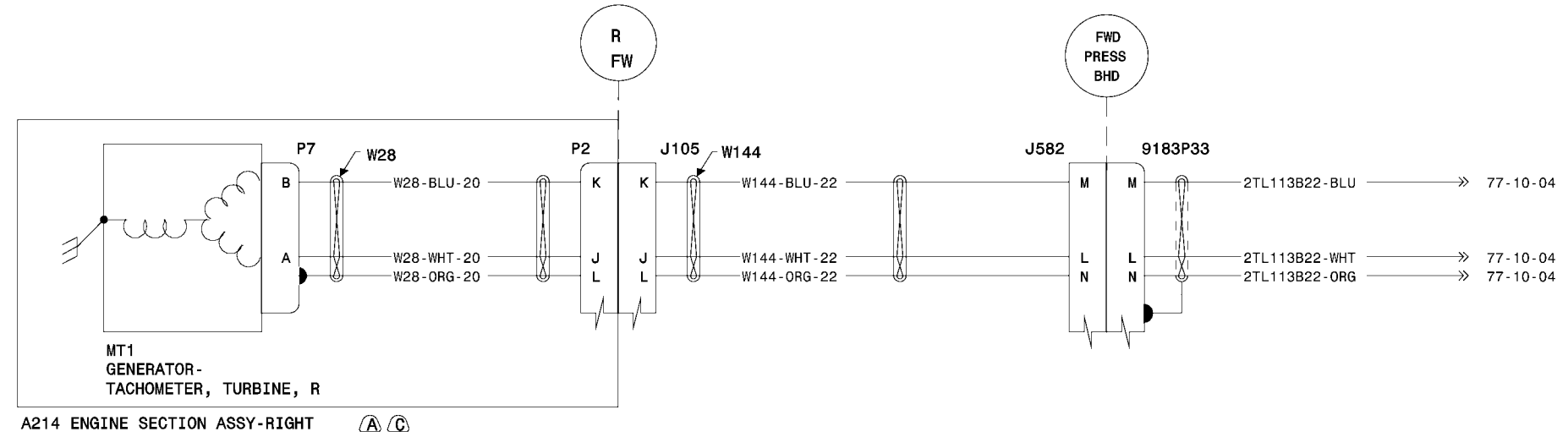


ENGINE INDICATING - NO. 1 & NO. 2 EDC  
 Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
			1	2	3
J581	MS3470W22-41S	. RECEPTACLE ENG SIGNAL, L (ZONE 231) . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	D-436-0097	. . SEALING SLEEVE	V06090		03 R
-	D-436-0098	. . SEALING SLEEVE	V06090		02 R
-	M39029/10-140	. . TERMINAL SOCKET CONTACT ALUMEL	V81349		01 R
-	M39029/10-141	. . TERMINAL SOCKET CONTACT CHROMEL	V81349		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT	V81349		25 R
-	M39029/5-116	. . TERMINAL SOCKET CONTACT	V81349		14 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		02 R
-	M85049/52-1-22W	. . BACKSHELL	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE	V70898		01 R
-	MS27488-16	. . SEALING PLUG	V96906		09 R
-	MS27488-20	. . SEALING PLUG	V96906		01 R
J582	MS3470W22-41SW	. RECEPTACLE ENG SIGNAL, R (ZONE 231) . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	D-436-0097	. . SEALING SLEEVE	V06090		03 R
-	D-436-0098	. . SEALING SLEEVE	V06090		02 R
-	M39029/10-140	. . TERMINAL SOCKET CONTACT - ALUMEL	V81349		01 R
-	M39029/10-141	. . TERMINAL SOCKET CONTACT - CHROMEL	V81349		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT	V81349		25 R
-	M39029/5-116	. . TERMINAL SOCKET CONTACT	V81349		14 R
-	M83519/2-8	. . SHIELD TERMINATION	V81349		02 R
-	M85049/52-1-22W	. . BACKSHELL	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE	V70898		01 R
-	MS27488-16	. . SEALING PLUG	V96906		11 R
NCS301	200838-2	. RECEPTACLE, 34 POSITION GND BLK. . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	201224-1	. . BACKSHELL	V00779		01 R
-	201328-1	. . TERMINAL SOCKET CONTACT	V00779		29 R
-	202508-1	. . TERMINAL SOCKET CONTACT	V00779		04 R
-	203618-1	. . JACKSCREW	V00779		02 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



ⓐ INDICATED TWISTED PAIR, TRIPLE, OR QUAD CONDUCTOR WILL HAVE ONE TWIST OF THE WIRE PAIR PER EVERY LENGTH EQUAL TO SEVEN TIMES THE OUTSIDE DIAMETER OF THE WIRE PAIR.

ⓐ WIRE NUMBERS AND/OR REFERENCE DESIGNATORS ARE DUPLICATED FOR LEFT AND RIGHT (OR MULTIPLE USE) WIRE HARNESS INTERCHANGEABILITY.

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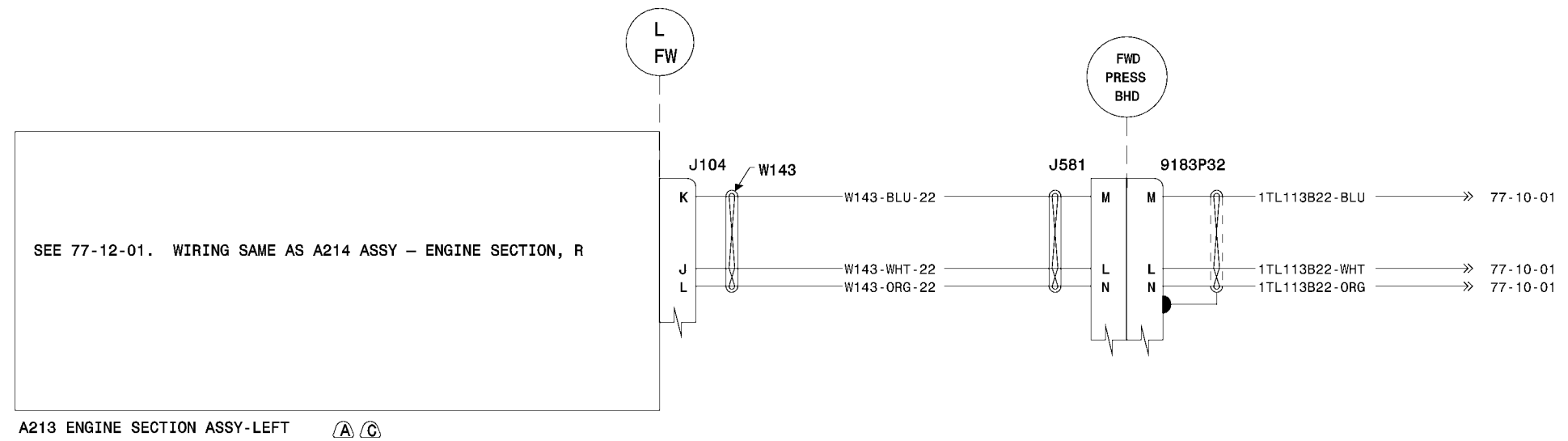
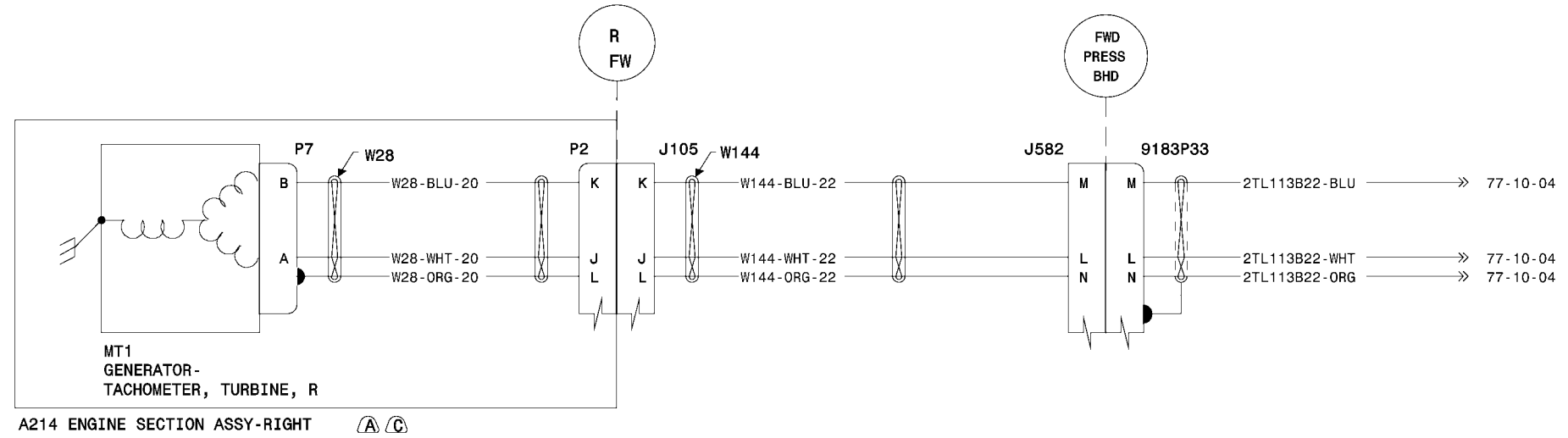
TURBINE TACHOMETERS  
 Figure 02 (Sheet 1)

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
02		TURBINE TACHOMETERS	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
9183P32	MS3476W22-41P	. PLUG ENG SIGNAL, L (ZONE 231) . . . . .	V96906		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT	V81349		25 R
-	M39029/4-111	. . TERMINAL PIN CONTACT	V81349		09 R
-	M39029/4-112	. . TERMINAL PIN CONTACT	V81349		05 R
-	M39029/9-134	. . TERMINAL PIN CONTACT ALUMEL	V81349		01 R
-	M39029/9-135	. . TERMINAL PIN CONTACT CHROMEL	V81349		01 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		08 R
-	M85049/52S22W	. . BACKSHELL	V81349		01 R
-	MS25036-153	. . TERMINAL RING TONGUE	V70898		02 R
-	MS27488-16	. . SEALING PLUG	V96906		09 R
-	MS27488-20	. . SEALING PLUG	V96906		01 R
9183P33	MS3476W22-41PW	. PLUG ENG SIGNAL, R (ZONE 231) . . . . .	V96906		01 R
-	M39029/4-110	. . TERMINAL PIN CONTACT	V81349		25 R
-	M39029/4-111	. . TERMINAL PIN CONTACT	V81349		11 R
-	M39029/4-112	. . TERMINAL PIN CONTACT	V81349		03 R
-	M39029/9-134	. . TERMINAL PIN CONTACT ALUMEL	V81349		01 R
-	M39029/9-135	. . TERMINAL PIN CONTACT CHROMEL	V81349		01 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		08 R
-	M85049/52S22W	. . BACKSHELL	V81349		01 R
-	MS25036-153	. . TERMINAL RING TONGUE	V70898		02 R
-	MS27488-16	. . SEALING PLUG	V96906		11 R
J104	MS3450KT36-7S	. RECEPTACLE NO. 2 FIREWALL, L (ZONE 521) . . . . .	V96906	FL0954 FL0954	01 R
				FL1010 FL1010	
				FL1031 FL1299	
				FL1301 FL1306	
				FM0066FM0109	
-	131741-3	. . MARKER BAND	V70898		01 R
-	310-1620-091	. . TERMINAL SOCKET CONTACT			32 R
-	350AS001N36-3	. . BACKSHELL			01 R
-	D-436-0097	. . SEALING SLEEVE	V06090		01 R
-	D-436-0098	. . SEALING SLEEVE	V06090		02 R
-	L144	. . FIBERFRAX TAPE			01 R
-	M39029/30-218	. . TERMINAL SOCKET CONTACT	V81349		06 R
-	M39029/30-219	. . TERMINAL SOCKET CONTACT	V81349		07 R
-	M39029/86-463	. . TERMINAL SOCKET CONTACT ALUMEL	V81349		01 R
-	M39029/86-464	. . TERMINAL SOCKET CONTACT CHROMEL	V81349		01 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		07 R
J105	MS3450KT36-7S	. RECEPTACLE NO. 2 FIREWALL, R (ZONE 621) . . . . .	V96906	FL0954 FL0954	01 R
				FL1010 FL1010	
				FL1031 FL1299	
				FL1301 FL1306	
				FM0066FM0109	
-	310-1620-091	. . TERMINAL SOCKET CONTACT			32 R
-	350AS001N36-3	. . BACKSHELL			01 R
-	D-436-0097	. . SEALING SLEEVE	V06090		01 R
-	D-436-0098	. . SEALING SLEEVE	V06090		02 R
-	L144	. . FIBERFRAX TAPE			01 R
-	M39029/30-218	. . TERMINAL SOCKET CONTACT	V81349		06 R
-	M39029/30-219	. . TERMINAL SOCKET CONTACT	V81349		07 R
-	M39029/86-463	. . TERMINAL SOCKET CONTACT ALUMEL	V81349		01 R
-	M39029/86-464	. . TERMINAL SOCKET CONTACT CHROMEL	V81349		01 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		07 R

- ITEM NOT ILLUSTRATED

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



ⓐ INDICATED TWISTED PAIR, TRIPLE, OR QUAD CONDUCTOR WILL HAVE ONE TWIST OF THE WIRE PAIR PER EVERY LENGTH EQUAL TO SEVEN TIMES THE OUTSIDE DIAMETER OF THE WIRE PAIR.

ⓐ WIRE NUMBERS AND/OR REFERENCE DESIGNATORS ARE DUPLICATED FOR LEFT AND RIGHT (OR MULTIPLE USE) WIRE HARNESS INTERCHANGEABILITY.

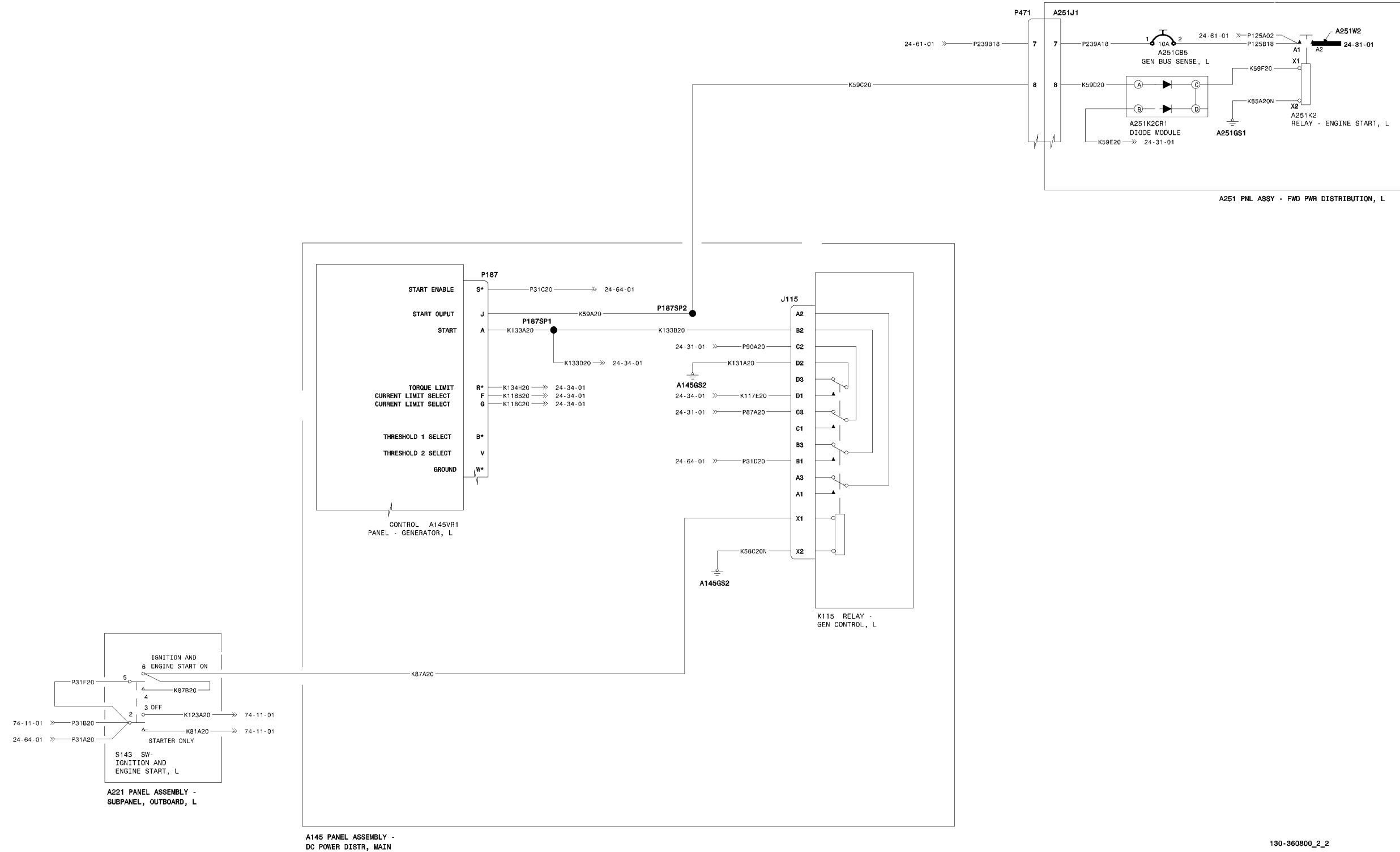
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TURBINE TACHOMETERS  
 Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
J581	MS3470W22-41S	. RECEPTACLE ENG SIGNAL, L (ZONE 231) . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	D-436-0097	. . SEALING SLEEVE	V06090		03 R
-	D-436-0098	. . SEALING SLEEVE	V06090		02 R
-	M39029/10-140	. . TERMINAL SOCKET CONTACT ALUMEL	V81349		01 R
-	M39029/10-141	. . TERMINAL SOCKET CONTACT CHROMEL	V81349		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT	V81349		25 R
-	M39029/5-116	. . TERMINAL SOCKET CONTACT	V81349		14 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		02 R
-	M85049/52-1-22W	. . BACKSHELL	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE	V70898		01 R
-	MS27488-16	. . SEALING PLUG	V96906		09 R
-	MS27488-20	. . SEALING PLUG	V96906		01 R
J582	MS3470W22-41SW	. RECEPTACLE ENG SIGNAL, R (ZONE 231) . . . . .	V96906		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	D-436-0097	. . SEALING SLEEVE	V06090		03 R
-	D-436-0098	. . SEALING SLEEVE	V06090		02 R
-	M39029/10-140	. . TERMINAL SOCKET CONTACT - ALUMEL	V81349		01 R
-	M39029/10-141	. . TERMINAL SOCKET CONTACT - CHROMEL	V81349		01 R
-	M39029/5-115	. . TERMINAL SOCKET CONTACT	V81349		25 R
-	M39029/5-116	. . TERMINAL SOCKET CONTACT	V81349		14 R
-	M83519/2-8	. . SHIELD TERMINATION	V81349		02 R
-	M85049/52-1-22W	. . BACKSHELL	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE	V70898		01 R
-	MS27488-16	. . SEALING PLUG	V96906		11 R
P2	MS3456KT36-7P	. PLUG NO. 2 FIREWALL (ZONE 410/420) . . . . .	V96906		01 R
-	131287-1	. . LABEL STOCK			01 R
-	131545SG14-0040	. . FIRESLEEVE FLAME RESISTANCE	V70898		01 R
-	360AS001Z13620H4	. . BACKSHELL	V81349		01 R
-	D-436-0098	. . SEALING SLEEVE	V06090		01 R
-	M39029/29-212	. . TERMINAL PIN CONTACT	V81349		38 R
-	M39029/29-213	. . TERMINAL PIN CONTACT	V81349		07 R
-	M39029/85-455	. . TERMINAL PIN CONTACT ALUMEL	V81349		01 R
-	M39029/85-456	. . TERMINAL PIN CONTACT CHROMEL	V81349		01 R
-	M83519/1-3	. . SHIELD TERMINATION	V81343		03 R
-	M83519/1-4	. . SHIELD TERMINATION	V81343		01 R
-	-49				
P7	MS3456L12S-3S	. PLUG TURBINE TACH GEN, R (ZONE 410/420) . . . . .	V96906		01 R
-	131287-1	. . LABEL STOCK			01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/30-217	. . TERMINAL SOCKET CONTACT	V81349		02 R
-	M85049/52-1-12N	. . BACKSHELL	V81349		01 R
-	MS25036-102	. . TERMINAL RING TONGUE	V70898		01 R

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



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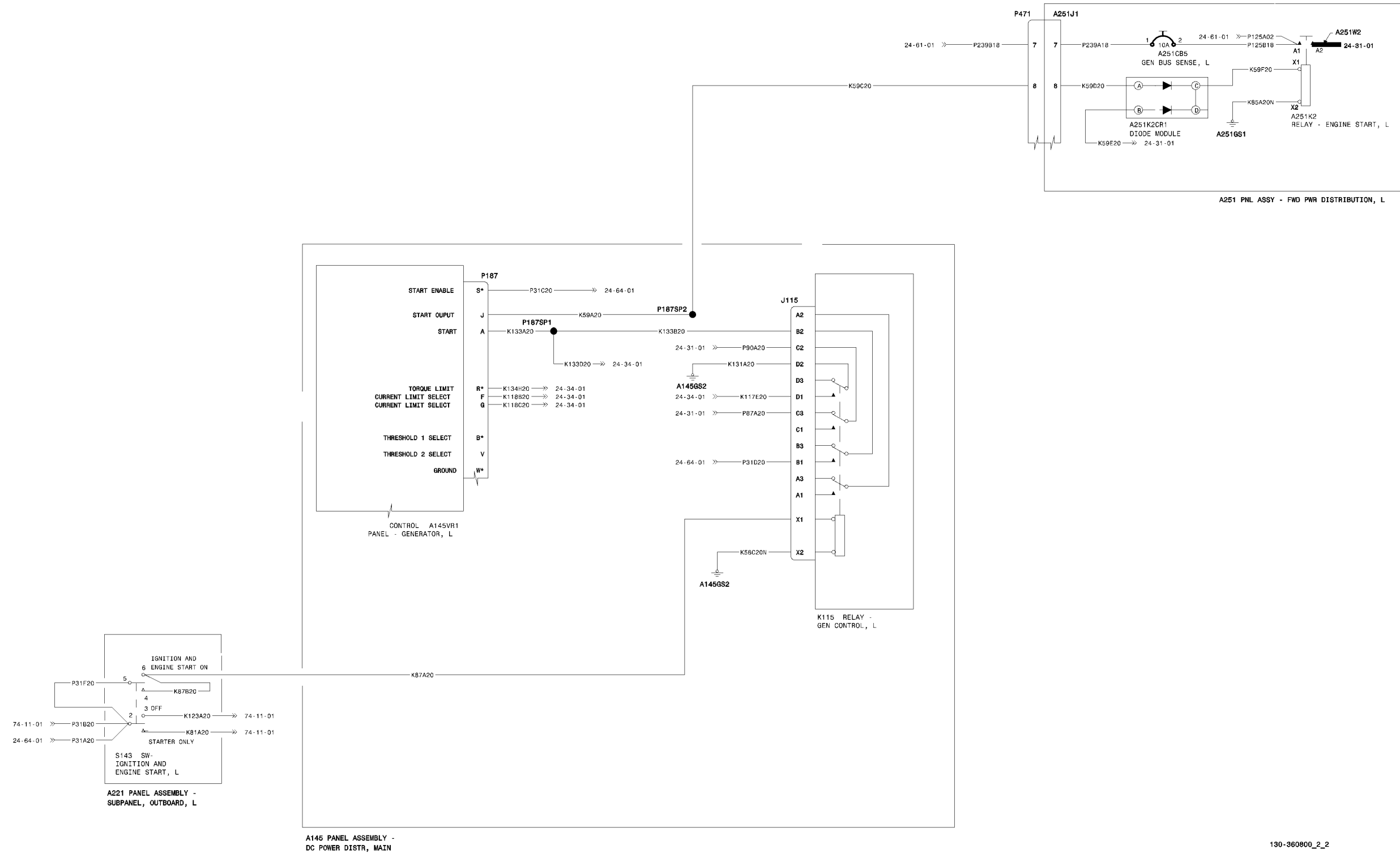
ENGINE START  
 Figure 02 (Sheet 1)



BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
02		ENGINE START	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
A145GS2		. GROUND STUD DC PWR DISTR, MAIN (ZONE 143) . . . . .			RF R
-	131741-1	. . MARKER BAND	V70898		01 R
-	MS25036-103	. . TERMINAL RING TONGUE	V70898		02 R
-	MS25036-108	. . TERMINAL RING TONGUE	V70898	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
A251CB5		. CIRCUIT BREAKER . . . . .		FL1300 FL1300	RF R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-1	. . MARKER BAND	V70898		01 R
-	MS25036-102	. . TERMINAL RING TONGUE	V70898		02 R
A251GS1		. GROUND STUD (ZONE 521) . . . . .			RF R
-	131741-1	. . MARKER BAND	V70898		01 R
-	MS25036-103	. . TERMINAL RING TONGUE	V70898		01 R
A251J1	206036-3	. RECEPTACLE, 17-16P . . . . .	V00779	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-3	. . MARKER BAND	V70898		01 R
-	206070-8	. . BACKSHELL	V00779		01 R
-	66099-4	. . TERMINAL PIN CONTACT	V00779		04 R
-	66103-4	. . TERMINAL PIN CONTACT	V00779		06 R
-	66602-2	. . TERMINAL PIN CONTACT	V00779		02 R
A251K2		. RELAY ENGINE START LEFT . . . . .		FL1300 FL1300	RF R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-1	. . MARKER BAND	V70898		01 R
-	MS25036-102	. . TERMINAL RING TONGUE	V70898		02 R
-	MS25036-151	. . TERMINAL RING TONGUE	V70898		01 R
A251K2 CR1	TJSE20708	. TERMINAL JUNCTION WIRE SPLICE DIODE . . . . .		FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-1	. . MARKER BAND	V70898		01 R
-	M39029/1-101	. . TERMINAL PIN CONTACT	V81349		03 R
J113	M12883/52-001	. PLUG, 2 POLE RELAY . . . . .	V81349	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-3	. . MARKER BAND	V70898		01 R
-	M39029/22-192	. . TERMINAL SOCKET CONTACT	V81349		04 R
J113SP1	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
J115	M12883/40-13	. PLUG, 4 POLE GEN CONT RELAY, L (ZONE 143) . . . . .	V81349		01 R
-	001-5490-000	. . TERMINAL SOCKET CONTACT INCLUDED WITH CONNECTOR	V35344		AR R
-	101-364639-33	. . BRACKET			01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	K-D4A	. . RELAY, NONLATCH (12 AMP) 4PDT			01 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		01 R
-	MS27488-16	. . SEALING PLUG	V96906		06 R
J115CR1	TJSE20708	. TERMINAL JUNCTION WIRE SPLICE DIODE . . . . .	V00779	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-1	. . MARKER BAND	V70898		01 R
-	M39029/1-101	. . TERMINAL PIN CONTACT	V81349		03 R

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



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ENGINE START  
 Figure 02 (Sheet 1)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY FROM TO	UNITS	
				PER ASSY	
		1 2 3 4 5 6 7			
P187	D38999/26FJ4SN	. PLUG .....	V81349	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	131741-3	. . . MARKER BAND	V70898		01 R
-	52672	. . . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/56-351	. . . TERMINAL SOCKET CONTACT	V81349		48 R
-	M39029/56-352	. . . TERMINAL SOCKET CONTACT	V81349		08 R
-	M83519/2-8	. . . SHIELD TERMINATION	V81343		04 R
-	M85049/38S25N	. . . BACKSHELL	V81349		01 R
-	MS25036-149	. . . TERMINAL RING TONGUE	V70898		01 R
-	MS25036-153	. . . TERMINAL RING TONGUE	V70898		01 R
-	MS27488-16	. . . SEALING PLUG	V96906		03 R
-	MS27488-20	. . . SEALING PLUG	V96906		27 R
P187SP1	M81824/1-2	. SPLICE .....	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
P187SP2	M81824/1-2	. SPLICE .....	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
P471	206037-1	. PLUG DC DISTR CONT, L (ZONE 521) .....	V00779		01 R
-	131741-3	. . . MARKER BAND	V70898		01 R
-	206070-1	. . . BACKSHELL	V00779		01 R
-	52672	. . . FIRE RESISTANT TAPE	V02988		01 R
-	66101-4	. . . TERMINAL SOCKET CONTACT	V00779		04 R
-	66105-4	. . . TERMINAL SOCKET CONTACT	V00779		05 R
-	66360-4	. . . TERMINAL SOCKET CONTACT	V00779		02 R
-	D-436-0097	. . . SEALING SLEEVE	V06090		02 R
S143		. SWITCH, TOGGLE TWO POLE START & IGNITION CONT ENG, L (ZONE 245) .....			RF R
-	MS25036-102	. . . TERMINAL RING TONGUE	V70898		06 R

- ITEM NOT ILLUSTRATED

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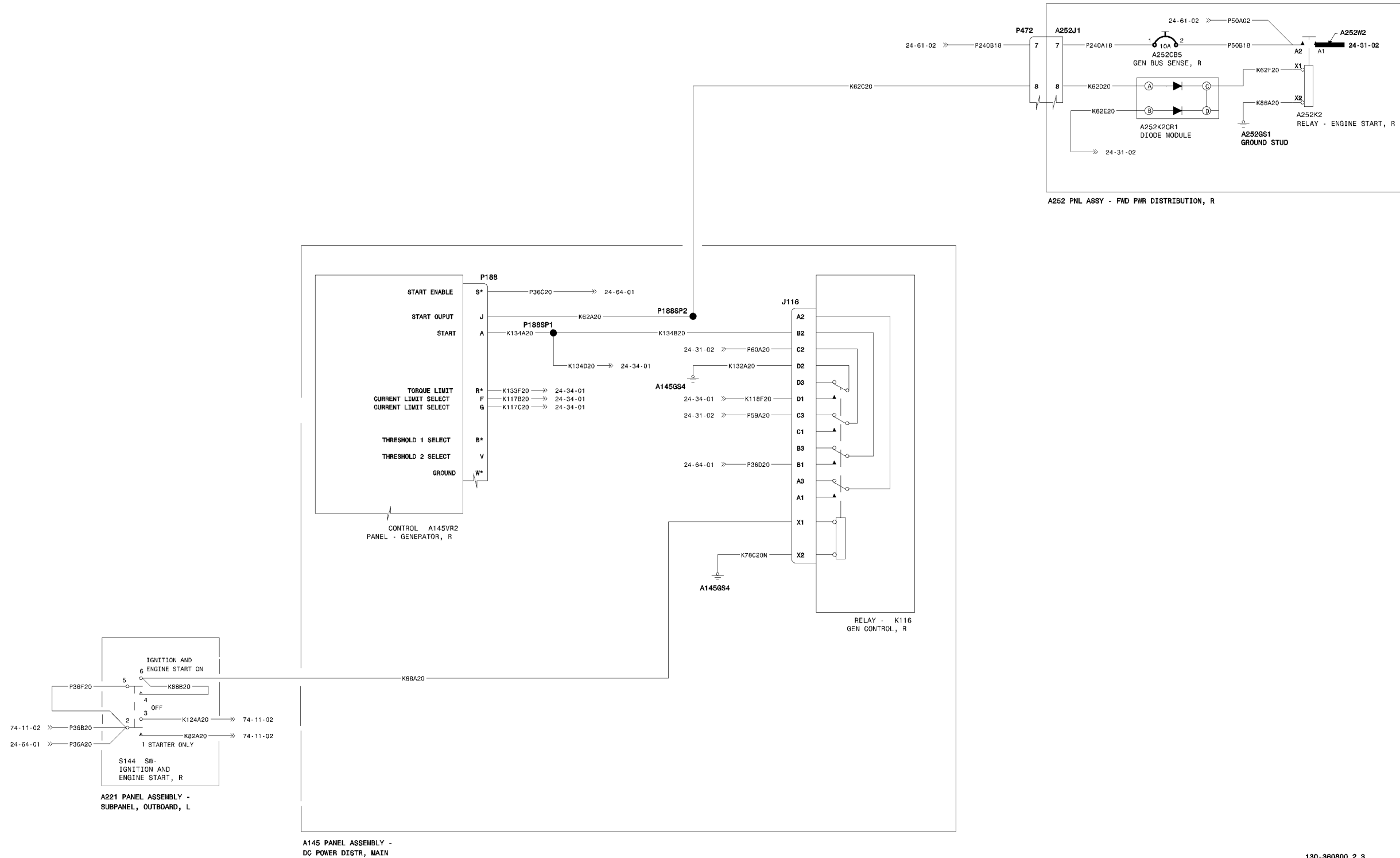
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Figure 02

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BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



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ENGINE START  
 Figure 02 (Sheet 2)

**BEECHCRAFT®**  
**MODEL B300/B300C FUSION**  
**WIRING DIAGRAM MANUAL**

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY		UNITS PER ASSY
			FROM	TO	
02		ENGINE START	FL1300	FL1300	
			FL1307	FL9999	
			FM0110	FM9999	
A145GS4		. GROUND STUD DC PWR DISTR, MAIN (ZONE 143) . . . . .			RF R
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-103	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
-	MS25036-108	. . TERMINAL RING TONGUE . . . . .	V70898	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
A252CB5		. CIRCUIT BREAKER . . . . .		FL1300 FL1300	RF R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
A252GS1		. GROUND STUD . . . . .		FL1300 FL1300	RF R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-103	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A252J1	206036-3	. RECEPTACLE, 17-16P . . . . .	V00779	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	206070-8	. . BACKSHELL . . . . .	V00779		01 R
-	66099-4	. . TERMINAL PIN CONTACT . . . . .	V00779		04 R
-	66103-4	. . TERMINAL PIN CONTACT . . . . .	V00779		06 R
-	66602-2	. . TERMINAL PIN CONTACT . . . . .	V00779		02 R
A252K2		. RELAY ENGINE START, RIGHT . . . . .		FL1300 FL1300	RF R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	MS25036-102	. . TERMINAL RING TONGUE . . . . .	V70898		02 R
-	MS25036-151	. . TERMINAL RING TONGUE . . . . .	V70898		01 R
A252K2 CR1	TJSE20708	. TERMINAL JUNCTION WIRE SPLICE DIODE . . . . .	V00779	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-1	. . MARKER BAND . . . . .	V70898		01 R
-	M39029/1-101	. . TERMINAL PIN CONTACT . . . . .	V81349		03 R
J114	M12883/52-001	. PLUG, 2 POLE RELAY . . . . .	V81349	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	M39029/22-192	. . TERMINAL SOCKET CONTACT . . . . .	V81349		04 R
J114SP1	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300	01 R
				FL1307 FL9999	
				FM0110 FM9999	
J116	M12883/40-13	. PLUG, 4 POLE GEN CONT RELAY, R (ZONE 143) . . . . .	V81349		01 R
-	001-5490-000	. . TERMINAL SOCKET CONTACT INCLUDED WITH CONNECTOR	V35344		AR R
-	101-364639-33	. . BRACKET . . . . .			01 R
-	131741-3	. . MARKER BAND . . . . .	V70898		01 R
-	K-D4A	. . RELAY, NONLATCH (12 AMP) 4PDT . . . . .			01 R
-	M83519/2-8	. . SHIELD TERMINATION . . . . .	V81343		01 R
-	MS27488-16	. . SEALING PLUG . . . . .	V96906		06 R

- ITEM NOT ILLUSTRATED

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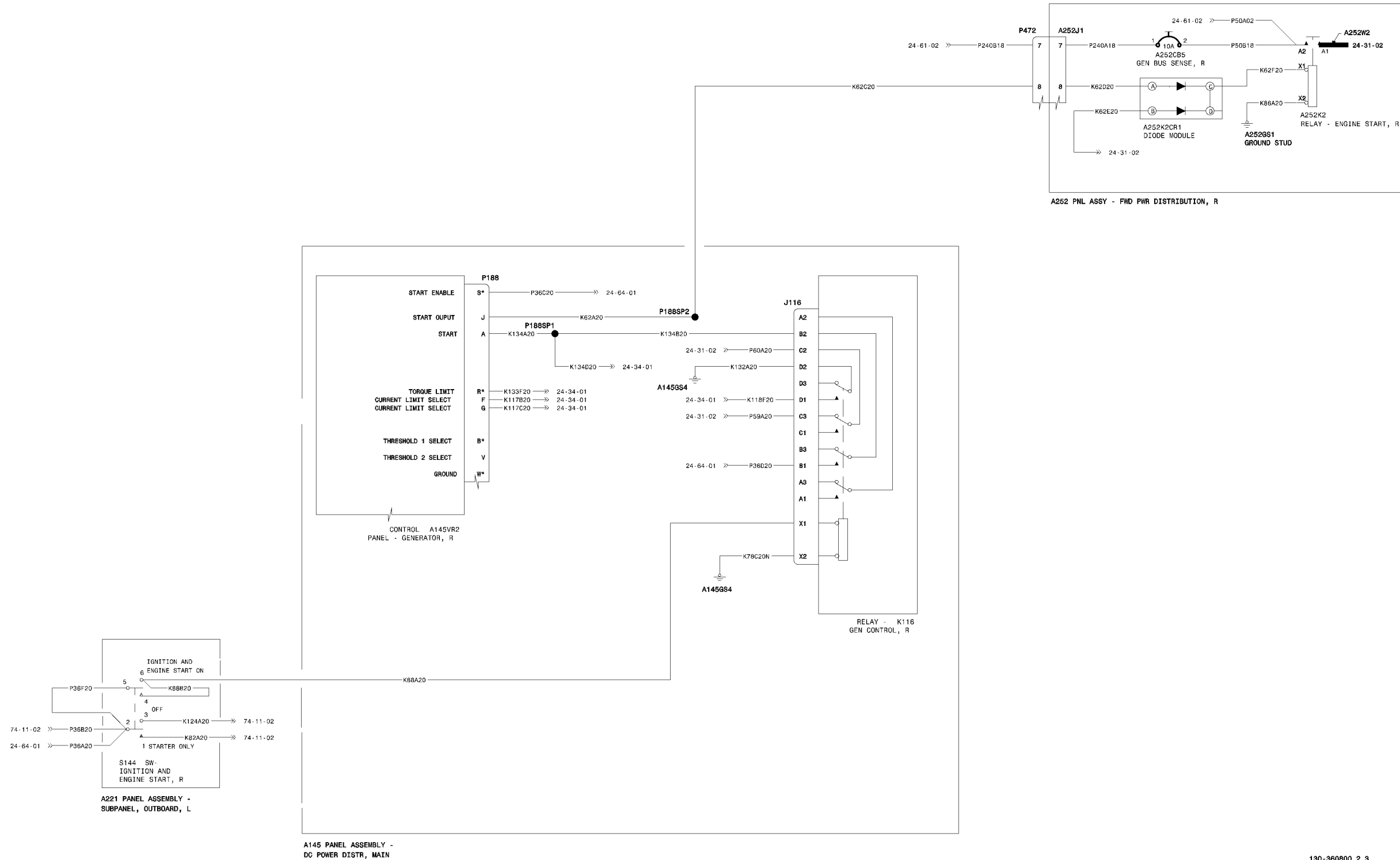
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Figure 02

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BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL



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ENGINE START  
 Figure 02 (Sheet 2)

BEECHCRAFT®  
**MODEL B300/B300C FUSION**  
 WIRING DIAGRAM MANUAL

FIG REF DES	PART NUMBER	NOMENCLATURE	EFFECTIVITY FROM TO	UNITS	
				PER ASSY	
		1 2 3 4 5 6 7			
P188	D38999/26FJ4SN	. PLUG CONTROLL PANEL GENERATOR, RIGHT . . . . .	V81349	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	M39029/56-351	. . TERMINAL SOCKET CONTACT	V81349		48 R
-	M39029/56-352	. . TERMINAL SOCKET CONTACT	V81349		08 R
-	M83519/2-8	. . SHIELD TERMINATION	V81343		04 R
-	M85049/38S25N	. . BACKSHELL	V81349		01 R
-	MS25036-149	. . TERMINAL RING TONGUE	V70898		01 R
-	MS25036-153	. . TERMINAL RING TONGUE	V70898		01 R
-	MS27488-16	. . SEALING PLUG	V96906		03 R
-	MS27488-20	. . SEALING PLUG	V96906		27 R
P188SP1	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
P188SP2	M81824/1-2	. SPLICE . . . . .	V81343	FL1300 FL1300 FL1307 FL9999 FM0110 FM9999	01 R
P472	206037-1	. PLUG DC DISTR CONT, R (ZONE 621) . . . . .	V00779		01 R
-	131741-3	. . MARKER BAND	V70898		01 R
-	206070-1	. . BACKSHELL	V00779		01 R
-	52672	. . FIRE RESISTANT TAPE	V02988		01 R
-	66101-4	. . TERMINAL SOCKET CONTACT	V00779		04 R
-	66105-4	. . TERMINAL SOCKET CONTACT	V00779		05 R
-	66360-4	. . TERMINAL SOCKET CONTACT	V00779		02 R
-	D-436-0097	. . SEALING SLEEVE	V06090		02 R
S144		. SWITCH, TOGGLE TWO POLE START & IGNITION CONT ENG, R (ZONE 245) . . . . .			RF R
-	MS25036-102	. . TERMINAL RING TONGUE	V70898		06 R