

TITLE

NAVIGATION - TRANSMITTAL OF COLLINS AEROSPACE SERVICE BULLETIN ALT-4000-34-14,
NAVIGATION - ALT 4000 POWER SUPPLY ROBUSTNESS IMPROVEMENT

EFFECTIVITY

MODEL	SERIAL NUMBERS
King Air B200	BB-1834 thru BB-2019
King Air B200C	BL-148 thru BL-171
King Air B200GT	BY-1 thru BY-434
King Air B200CGT	BZ-1 thru BZ-8
King Air B300	FL-381 thru FL-1297
King Air B300C	FM-12 thru FM-107
King Air C90GTi	LJ-1847, LJ-1853 thru LJ-2179

REASON

Radio Altimeters are exhibiting erroneous altitude indications of approximately 1400 feet during flight above 2600 feet instead of No Computed Data (NCD) indication. This results in a nuisance radio altitude being displayed. The indications may be prolonged or momentary

DESCRIPTION

This service document transmits Collins Aerospace Service Bulletin ALT-4000-34-14.

COMPLIANCE

OPTIONAL. This service document can be accomplished at the discretion of the owner.

A service document published by Textron Aviation may be recorded as *completed* in an aircraft log only when the following requirements are satisfied:

- 1) The mechanic must complete all of the instructions in the service document, including the intent therein.
- 2) The mechanic must correctly use and install all applicable parts supplied with the service document kit. Only with written authorization from Textron Aviation can substitute parts or rebuilt parts be used to replace new parts.
- 3) The mechanic or airplane owner must use the technical data in the service document only as approved and published.
- 4) The mechanic or airplane owner must apply the information in the service document only to aircraft serial numbers identified in the *Effectivity* section of the document.
- 5) The mechanic or airplane owner must use maintenance practices that are identified as acceptable standard practices in the aviation industry and governmental regulations.

No individual or corporate organization other than Textron Aviation is authorized to make or apply any changes to a Textron Aviation-issued service document or flight manual supplement without prior written consent from Textron Aviation.

Textron Aviation is not responsible for the quality of maintenance performed to comply with this document, unless the maintenance is accomplished at a Textron Aviation-owned Service Center.

October 14, 2022

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Textron Aviation Customer Service, P.O. Box 7706, Wichita, KS 67277, U.S.A. 1-316-517-5800

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CONSUMABLE MATERIAL

No specialized consumable materials are required to complete this service document.

TOOLING

No specialized tooling is required to complete this service document.

REFERENCES

Beechcraft 200 Series Aircraft Maintenance Manual
Beechcraft Super King Air B200GT/B200CGT Fusion Maintenance Manual
Beechcraft Super King Air B300/B300C Maintenance Manual
Beechcraft Super King Air B300/B300C Fusion Maintenance Manual
Beechcraft King Air 90 Series Maintenance Manual
Beechcraft King Air 90 Fusion Maintenance Manual
Collins Aerospace Service Bulletin ALT-4000-34-14, Initial Issue, or later

NOTE: To make sure all publications used are complete and current. Refer to www.txtavsupport.com.

PUBLICATIONS AFFECTED

None

ACCOMPLISHMENT INSTRUCTIONS

1. Prepare the airplane for maintenance.
 - A. Make sure that the airplane is electrically grounded.
 - B. Make sure that all switches are in the OFF/NORM position.
 - C. Disconnect electrical power from the airplane.
 - (1) Disconnect external electrical power.
 - (2) Disconnect the airplane battery.
 - D. Attach maintenance warning tags to the battery and external power receptacle that have **"DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS"** written on them.
2. Gain access to the radio altimeter transmitter receiver. (Refer to the applicable maintenance manual, Chapter 34, Radio Altimeter Transmitter/Receiver (ALT-4000) - Removal/Installation.)
3. Examine the part number and serial number on the radio altimeter transmitter/receiver.
 - A. If the part number and serial number on the transmitter/receiver is not shown on the Collins Aerospace Service Bulletin ALT-4000-34-14, go to Step 4.
 - B. If the part number and serial number on the transmitter/receiver is shown and MOD strike SB14 is blank, on the Collins Aerospace Service Bulletin ALT-4000-34-14, do the steps that follow:
 - (1) Remove the radio altimeter transmitter/receiver. (Refer to the applicable maintenance manual, Chapter 34, Radio Altimeter Transmitter/Receiver (ALT-4000) - Removal/Installation.)
 - (2) Send the affected radio altimeter transmitter/receiver to a Authorized Collins Aerospace Service Center to complete Collins Service Bulletin ALT-4000-34-14, Initial Issue or later.
 - (3) Install the radio altimeter transmitter/receiver. (Refer to the applicable maintenance manual, Chapter 34, Radio Altimeter Transmitter/Receiver (ALT-4000) - Removal/Installation.)
4. Install necessary panels/components removed to gain access. (Refer to the applicable maintenance manual, Chapter 34, Radio Altimeter Transmitter/Receiver (ALT-4000) - Removal/Installation.)
5. Remove the maintenance warning tags and connect the airplane battery.

6. Make an entry in the airplane logbook that states compliance and method of compliance with this service document.

NOTE: Textron Aviation recommends that compliance with all service documents is reported to a maintenance tracking system provider.

- Complete a record of compliance. (Maintenance Transaction Report, Log Book Entry, or other record of compliance.)
- Put a copy of the completed record of compliance in the airplane logbook.
- Send a copy of the completed record of compliance to the maintenance tracking system provider used.

MATERIAL INFORMATION

Refer to the Material Necessary For Each Component Section of Collins Service Bulletin ALT-4000-34-14 Initial Issue or later.

TITLE

NAVIGATION - TRANSMITTAL OF COLLINS AEROSPACE SERVICE BULLETIN ALT-4000-34-14,
NAVIGATION - ALT 4000 POWER SUPPLY ROBUSTNESS IMPROVEMENT

TO:

King Air B200 Aircraft Owner
King Air B200C Aircraft Owner
King Air B200GT Aircraft Owner
King Air B200CGT Aircraft Owner
King Air B300 Aircraft Owner
King Air B300C Aircraft Owner
King Air C90GTi Aircraft Owner

REASON

Radio Altimeters are exhibiting erroneous altitude indications of approximately 1400 feet during flight above 2600 feet instead of No Computed Data (NCD) indication. This results in a nuisance radio altitude being displayed. The indications may be prolonged or momentary.

COMPLIANCE

OPTIONAL. This service document can be accomplished at the discretion of the owner.

LABOR HOURS

WORK PHASE	LABOR-HOURS
Modification	As Necessary
Test and Inspection	As Necessary

MATERIAL AVAILABILITY

Refer to the Material Necessary For Each Component Section of Collins Service Bulletin ALT-4000-34-14 Initial Issue or later.

WARRANTY

None

NOTE: As a convenience, service documents are now available online to all our customers through a simple, free-of-charge registration process. If you would like to sign up, please visit the Customer Access link at www.txtavsupport.com to register.

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SERVICE BULLETIN

SUBJECT: NAVIGATION - ALT-4000 - POWER SUPPLY ROBUSTNESS IMPROVEMENT

TRANSMITTAL INFORMATION SUMMARY

SUMMARY

This is the initial release of Service Bulletin (SB) ALT-4000-34-14 for the ALT-1000 and ALT-4000 Radio Altimeter Transceiver.

NOTE: Refer to Section 1.A. for effectivity.

SERVICE BULLETIN REVISION HISTORY

REVISION	DATE OF RELEASE
Initial Release	October 21, 2021

NOTE: This service bulletin may be installed only by a Collins Aerospace representative or an authorized Collins Aerospace Service Center.

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SERVICE BULLETIN**

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SERVICE BULLETIN**

1. Planning Information

A. Effectivity

The modification procedure described in this service bulletin is applicable to the ALT-1000 and ALT-4000 Radio Altimeter Transceiver listed in the following table.

UNIT	COLLINS PART NUMBER (CPN)	APPLICABLE TO SERIAL NUMBERS	PRODUCTION INSTALLED SERIAL NUMBERS	PRODUCTION INSTALLED BUT NOT MARKED SERIAL NUMBERS
ALT-1000	822-1939-005	4N8L38 and below	4N8L3F and above	2V6KY and 4RR2R
ALT-1000	822-1939-006	4N8RG8 and below	4N8T2T and above	None
ALT-1000	822-1939-025	ALL	No Demand	None
ALT-4000	822-0615-002	ALL	No Demand	None
ALT-4000	822-0615-003	ALL	No Demand	D03R
ALT-4000	822-0615-125	4PR6RT, 4PR6RR, 4N8TCY and below	4PR652, 4PR653, 4PR654, 4PR655, 4PR6RV and above	None
ALT-4000	822-0615-206	4PR6RN and below, excluding 4PR4X6, 4PR4XD, 4PR4Y4, 4PR4YK, 4PR64M, 4PR64Y, 4PR651, 4PR658 thru 4PR65Y	4PR6T7 and above, including 4PR4X6, 4PR4XD, 4PR4Y4, 4PR4YK, 4PR64M, 4PR64Y, 4PR651, 4PR658 thru 4PR65Y	4M3HLH, 4PR64C, 4PR64D, 4PR64G, 4PR64H, 4PR64K, 4PR64L, 4PR64N, 4PR64P, 4PR64V, and 4PR657
ALT-4000	822-0615-207	Applicable to: 4PR4Y0 and below, excluding 4PR4Y2, 4PR4Y9, 4PR4YD, 4PR64X, 4PR656, 4PR65G, 4PR65K, and 4PR65N	4PR6TK and above, including 4PR4Y2, 4PR4Y9, 4PR4YD, 4PR64X, 4PR656, 4PR65G, 4PR65K, and 4PR65N	2L72C, 4PR64F, 4PR64T, 4PR65D, 4PR65M, and 4PR65R
ALT-4000	822-0615-305	4PR6RP and below, excluding 4PR65F, 4PR650, 4PR64R, 4PR4Y8, and 4PR4XT	4PR6TH and above, including 4PR65F, 4PR650, 4PR64R, 4PR4Y8 and 4PR4XT	None
ALT-4000	822-0615-306	ALL	No Demand	None
ALT-4000	822-0615-315	4PR6R1 and below, excluding 4PR4YF	4PR4YF and above, excluding 4PR6R1, 4PR6NC, and 4PR6N3	None
ALT-4000	822-0615-316	ALL	No Demand	None

**ROCKWELL COLLINS, A PART OF COLLINS AEROSPACE
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NOTE: The modification contained in this service bulletin is strictly applicable to the status(es) listed and not applicable to additional status(es) within the ALT-1000 and ALT-4000 type number.

NOTE: Prior to issuing this Service Bulletin ALT-4000-34-14, manufacturing installed this modification in the units identified in the PRODUCTION INSTALLED BUT NOT MARKED SERIAL NUMBERS column. For these units, the service bulletin number on the unit modification plate was not marked out. To maintain conformity, the service bulletin number should be marked out by those authorized to install this bulletin.

B. Concurrent Requirements

None.

C. Reason

(1) Description of Existing Condition

Certain Radio Altimeters are exhibiting erroneous altitude indications of approximately 1400 feet during flight above 2600 feet instead of No Computed Data (NCD) indication. This results in a nuisance radio altitude being displayed. The indications may be prolonged or momentary.

(2) Extent Condition Encountered

Any ALT-1000, CPN 822-1939-005/-006/-025 and ALT-4000, CPN 822-0615-002/-003/-125/-206/-207/-305/-306/-315/-316 may be affected.

(3) Expected Benefits of Modification

(a) Once repaired, affected units will no longer incorrectly exhibit altitude transients while above 2600 feet.

(b) Implementation of this service bulletin is total and permanent.

(4) Safety Intent of Corrective Action

Not applicable.

(5) Regulatory Action

Not applicable.

D. Description

Remove a resistor, remove and replace a resistor and install one jumper wire.

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E. Compliance

X	Optional - Service Bulletin for convenience or option.
	Recommended - Service Bulletin to introduce improvements.
	Highly Recommended - Service Bulletin recommended to be accomplished to prevent significant operational disruptions.
	Mandatory - Service Bulletin must be accomplished.

F. Approval

- (1) ALT-1000, CPN 822-1939-005/-006/-025, conforms to Federal Aviation Administration (FAA) Technical Standard Order (TSO) C87.
- (2) ALT-4000, CPN 822-0615-002/-003/-125/-206/-207/-305/-306/-315/-316, conforms to FAA TSO C87.

G. Manpower

The total estimated time to accomplish the work in this service bulletin is 2.5 man hours.

TASK	ESTIMATED HOURS
Preparation	1.0
Installation	1.0
Testing	0.5
Total	2.5

H. Weight and Balance

None.

I. Electrical Load Data

Not changed.

J. Software Accomplishment Summary

Not applicable.

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K. References

The following publications were used as source data to develop this service bulletin and are available if requested.

- (1) ALT-1000 Radio Altimeter Transceiver Component Maintenance Manual (with illustrated parts list) (CMMPL), CPN 523-0806454 (34-47-59)
- (2) ALT-4000 Radio Altimeter Transceiver Component Maintenance Manual (with illustrated parts list) (CMMPL), CPN 523-0777844 (34-47-56)
- (3) Avionics Standard Shop Practices Instruction Book, CPN 523-0768039 (20-00-01)
- (4) All Avionics Service Information Letter 3-93, titled "Non-Procurement Equipment Cleaning Solutions", CPN 523-0804806

L. Other Publications Affected

The next full revision to the referenced CMMPLs will include the information contained in this service bulletin.

M. Interchangeability and Intermixability of Parts

Fully interchangeable.

NOTE: Aircraft level interchangeability/intermixability is specified by the Aircraft Original Equipment Manufacturer (OEM) documentation.

**ROCKWELL COLLINS, A PART OF COLLINS AEROSPACE
SERVICE BULLETIN**

2. Material Information

A. Material - Price and Availability

No kit required.

NOTE: The current charge to install this service bulletin is \$1,730 United States Dollars (USD) and may be subject to future price adjustments. Pricing is only valid through April 30, 2022.

B. Industry Support Information

- (1) This service bulletin may be installed only by a Collins Aerospace representative or an authorized Collins Aerospace Service Center.
- (2) Warranty claims will be accepted from repair authorized Collins Aerospace Maintenance Repair and Overhaul (MRO) for units under warranty, covering the cost of materials and 2.5 man-hours. For units out of warranty, cost of installation is the responsibility of the equipment owner.

NOTE: For equipment having a verified failure for the specific issue corrected by this service bulletin (covered failure), Collins Aerospace will install this service bulletin free of charge, in or out of warranty. If the equipment does not exhibit a covered failure, a charge will apply for the installation of the service bulletin, in or out of warranty.

C. Material Necessary For Each Component

NOTE: Material pricing is included in total service bulletin price. Refer to Section 2.A.

- (1) Materials to be purchased.
 - (a) Use the following materials to modify one (1) ALT-1000 Radio Altimeter Transceiver.

NEW PART NUMBER	KEY WORD	DESCRIPTION	OLD PART NUMBER	QUANTITY	UNIT PRICE	SPECIAL INSTRUCTION/ DISPOSITION
280-3778-110	MOD Chart	Label, Information	Not Applicable (N/A)	As Required (AR)	\$3.59	N/A
428-0282-050	Wire	30 American Gauge Wire (AGW)	N/A	1	\$2.15	N/A
705-2438-590	Resistor	Lead (Pb)-Bearing Thick Film, Rectangular Chip Resistor	N/A	1	\$2.19	N/A

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(b) Use the following materials to modify one (1) ALT-4000 Radio Altimeter Transceiver.

NEW PART NUMBER	KEY WORD	DESCRIPTION	OLD PART NUMBER	QUANTITY	UNIT PRICE	SPECIAL INSTRUCTION/ DISPOSITION
280-3778-110	MOD Chart	Label, Information	N/A	AR	\$3.59	N/A
428-0282-050	Wire	30 AGW	N/A	1	\$2.15	N/A
705-2438-590	Resistor	Lead (Pb)-Bearing Thick Film, Rectangular Chip Resistor	N/A	1	\$2.19	N/A

(2) Materials supplied by operator.

The following items are not supplied, but may be ordered, as required.

PART NUMBER	QUANTITY	DESCRIPTION
005-0225-010	AR	LOCTITE® 382™ Adhesive

NOTE: Pricing does not include AR materials.

D. Material Necessary for Each Spare

None required.

E. Reidentified Parts

None required.

F. Tooling – Price and Availability

None required.

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3. Accomplishment Instructions

A. Modification Procedure

WARNING: BEFORE HANDLING ANY UNIT OR UNIT COMPONENT, GROUND THE REPAIR OPERATOR THROUGH A CONDUCTIVE WRIST STRAP OR OTHER DEVICE THAT USES A 470 K Ω OR 1 M Ω SERIES RESISTOR TO PREVENT PERSONAL INJURY BY LIMITING CURRENT THROUGH THE WRIST STRAP TO GROUND.

WARNING: SERVICE PERSONNEL ARE TO OBEY STANDARD SAFETY PRECAUTIONS, SUCH AS WEARING SAFETY GLASSES, TO PREVENT PERSONAL INJURY WHILE INSTALLING OR DOING MAINTENANCE ON THIS UNIT.

WARNING: REMOVE ALL POWER TO THE UNIT BEFORE DISASSEMBLING IT. DISASSEMBLING THE UNIT WITH POWER CONNECTED IS DANGEROUS TO LIFE.

CAUTION: ESDS DEVICES ARE SUBJECT TO DAMAGE BY EXCESSIVE LEVELS OF VOLTAGE AND/OR CURRENT, JUST AS ARE MORE CONVENTIONAL SEMICONDUCTOR DEVICES. HOWEVER, THE PRECAUTIONS NORMALLY USED TO PROTECT SEMICONDUCTORS ARE NOT SUFFICIENT FOR THE PROTECTION OF ESDS DEVICES BECAUSE OF THEIR VERY HIGH ELECTRICAL RESISTANCE. THE LOW-ENERGY SOURCE THAT MOST COMMONLY DESTROYS ESDS DEVICES IS THE HUMAN BODY WHICH, IN CONJUNCTION WITH NONCONDUCTIVE GARMENTS AND FLOOR COVERINGS, GENERATES AND RETAINS STATIC ELECTRICITY. IN ORDER TO ADEQUATELY PROTECT ESDS DEVICES, THE DEVICE AND EVERYTHING THAT CONTACTS IT MUST BE BROUGHT TO GROUND POTENTIAL BY PROVIDING A CONDUCTIVE SURFACE AND DISCHARGE PATHS.

CAUTION: TURN OFF POWER BEFORE DISCONNECTING ANY UNIT FROM WIRING. DISCONNECTING THE UNIT WITHOUT TURNING POWER OFF MAY CAUSE DAMAGE.

CAUTION: THIS EQUIPMENT CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE (ESDS) COMPONENTS THAT CAN BE DAMAGED BY STATIC VOLTAGES PRESENT IN MOST REPAIR FACILITIES.

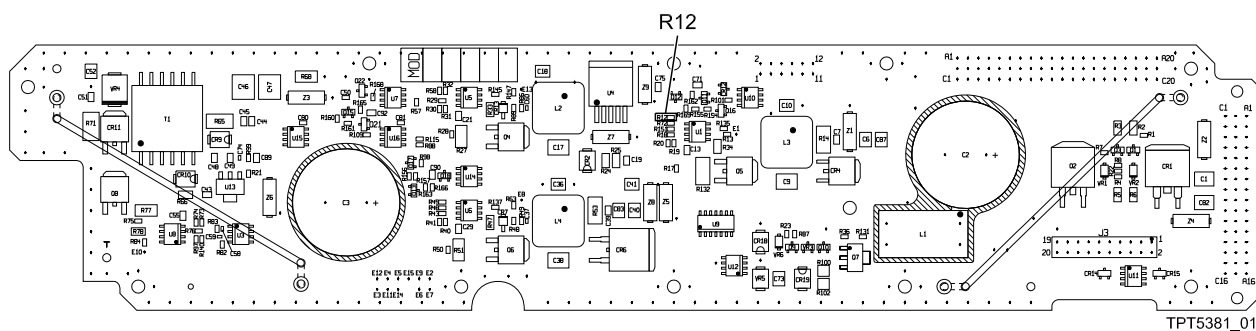
NOTE: For detailed repair/cleaning instructions, refer to the referenced Avionics Standard Shop Practices Instruction Book and the referenced All Avionics Service Information Letter 3-93, titled "Non-Procurable Equipment Cleaning Solutions".

NOTE: Refer to the Disassembly and Assembly instructions in the referenced CMMPLs.

(1) Refer to the disassembly instructions in the Disassembly section of the referenced CMMPLs to access the ALT-4000 or ALT-1000 Power Supply Circuit Card A2A4, CPN 828-2633-007.

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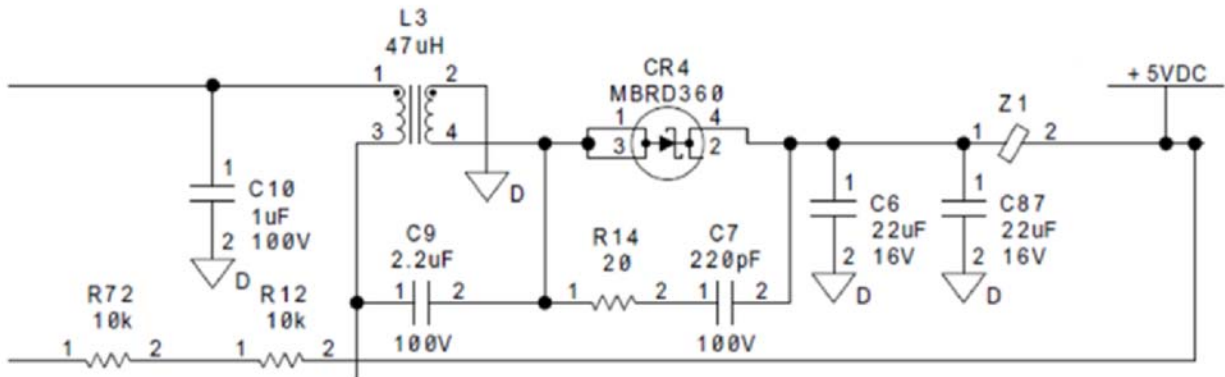
- (2) Locate, remove, and discard 10 Kilo Ohm (KOhm) resistor R12, CPN 705-2438-440, as shown in Figure 1.



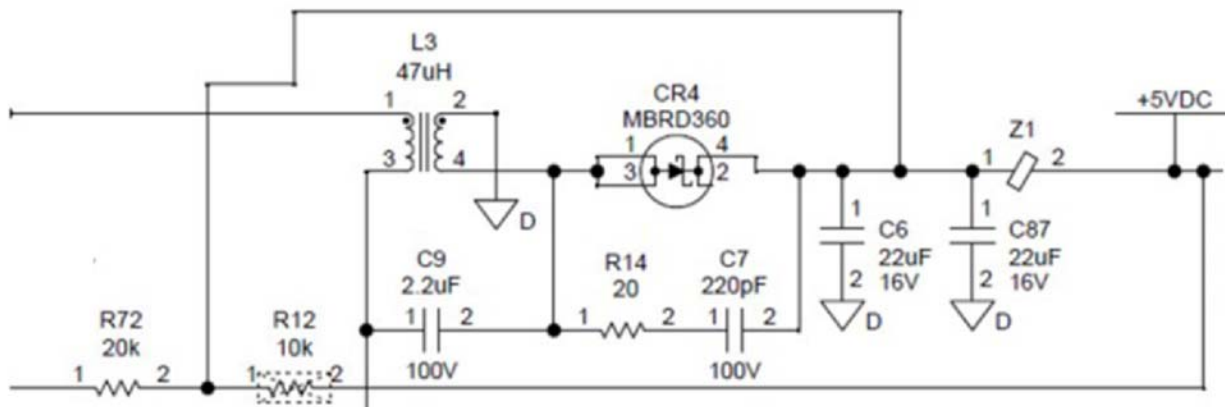
Power Supply Circuit Card A2A4, CPN 828-2633-007, Resistor R12, Component Location Diagram
Figure 1 (Sheet 1 of 2)

ROCKWELL COLLINS, A PART OF COLLINS AEROSPACE
SERVICE BULLETIN

BEFORE MODIFICATION



AFTER MODIFICATION

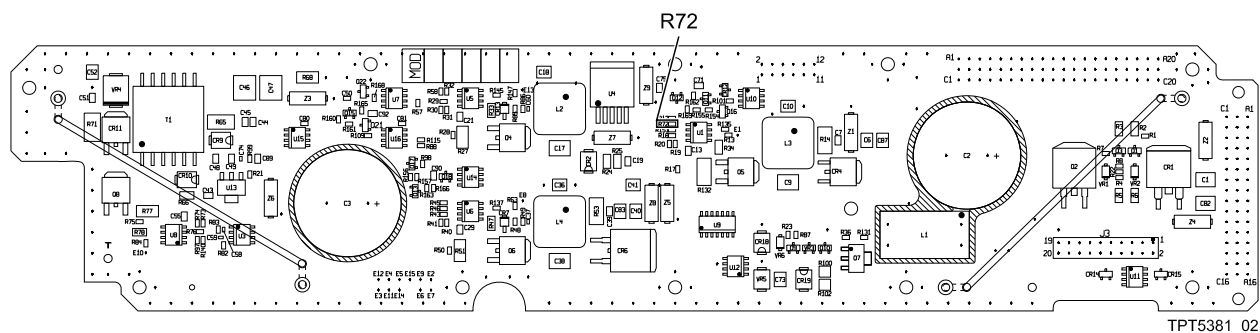


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Power Supply Circuit Card A2A4, CPN 828-2633-007, Resistor R12, Component Location Diagram
Figure 1 (Sheet 2 of 2)

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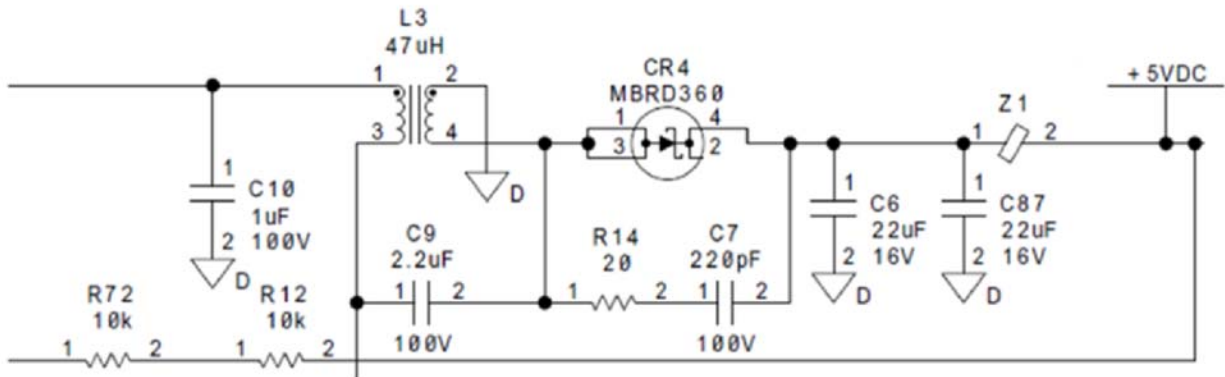
- (3) Locate, remove, discard, and replace 10 KOhm resistor R72, CPN 705-2438-440, with 20 KOhm resistor, CPN 705-2438-590, as shown in Figure 2.



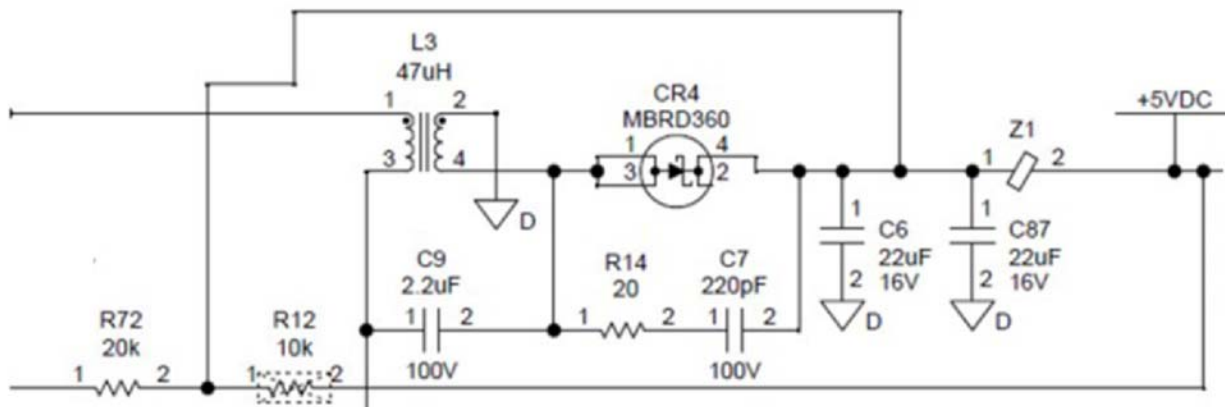
Power Supply Circuit Card A2A4, CPN 828-2633-007, Resistor R72, Component Location Diagram
Figure 2 (Sheet 1 of 2)

ROCKWELL COLLINS, A PART OF COLLINS AEROSPACE
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BEFORE MODIFICATION



AFTER MODIFICATION



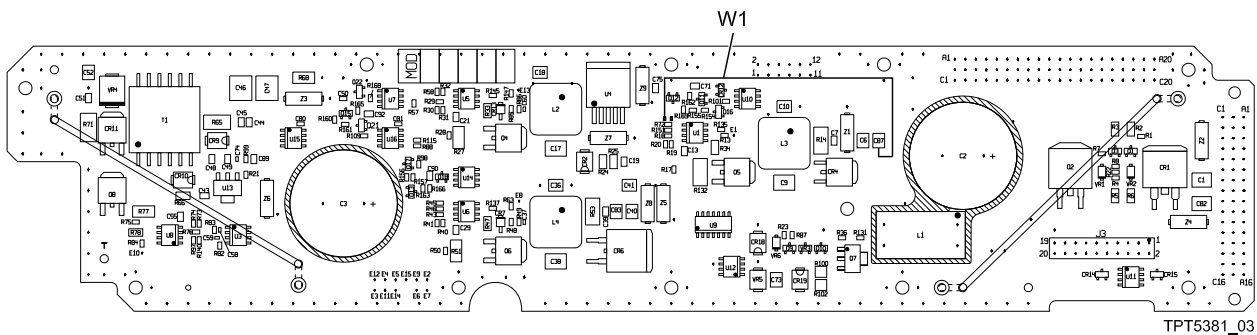
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Power Supply Circuit Card A2A4, CPN 828-2633-007, Resistor R72, Component Location Diagram
Figure 2 (Sheet 2 of 2)

**ROCKWELL COLLINS, A PART OF COLLINS AEROSPACE
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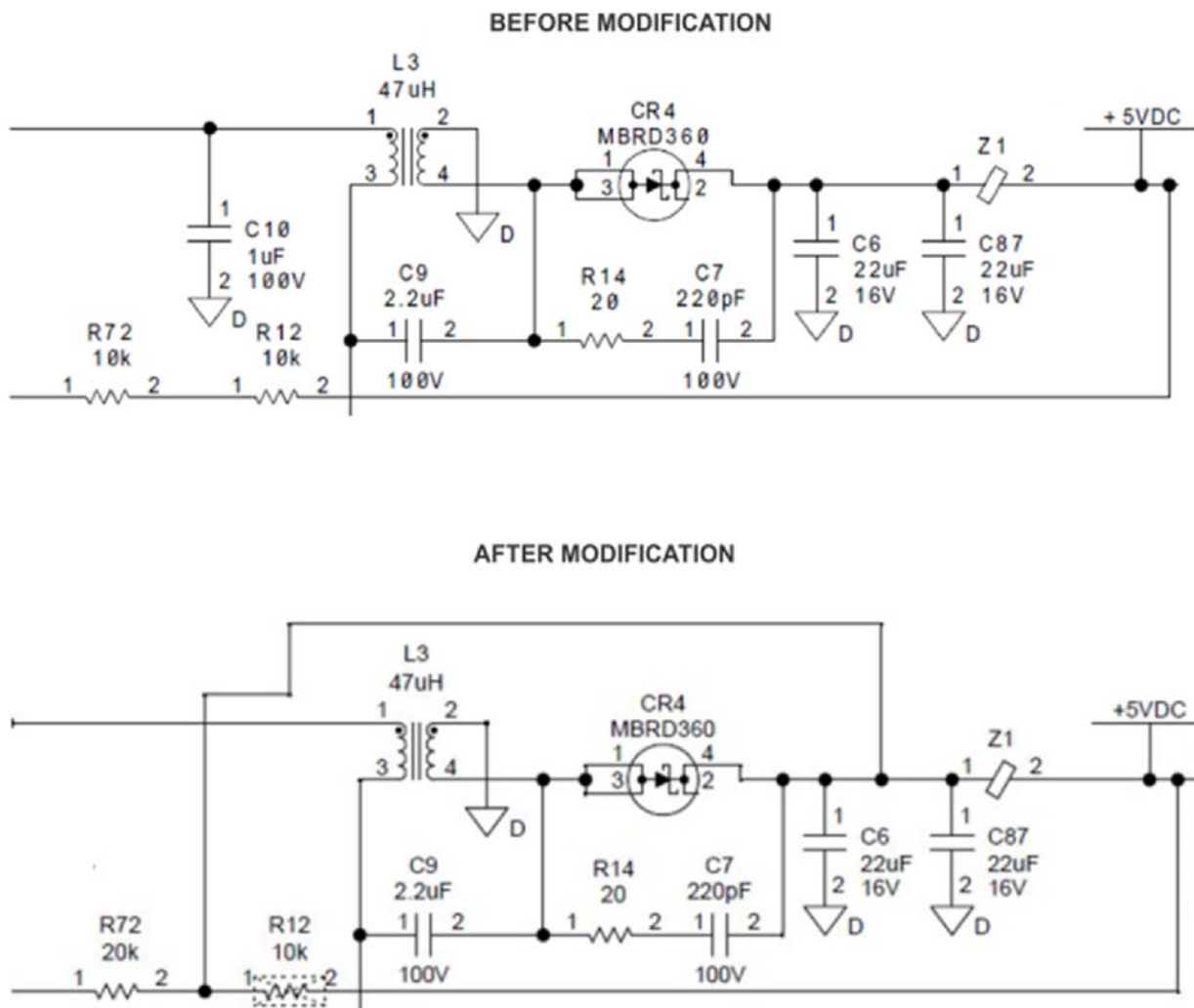
- (4) Install 30 gauge jumper wire W1, CPN 428-0282-050, from left pad of resistor R12, which was previously removed in Step 3.A.(2), to lower pad of capacitor C87 and bond with adhesive, CPN 005-0225-010. Apply a thin coat of adhesive, CPN 005-0225-010, for conductor bonding to the bottom side and perimeter of the pad (the conductor will be soldered) extending a minimum of 0.254mm [0.010 inch] beyond the outer edge of the pad/conductor(s) as shown in Figure 3 and Table 1.

NOTE: Avoid crossing over vias shown above routing and avoid crossing over screw holes when installing jumper wire.



Power Supply Circuit Card A2A4, CPN 828-2633-007, Jumper Wire Location Diagram
Figure 3 (Sheet 1 of 2)

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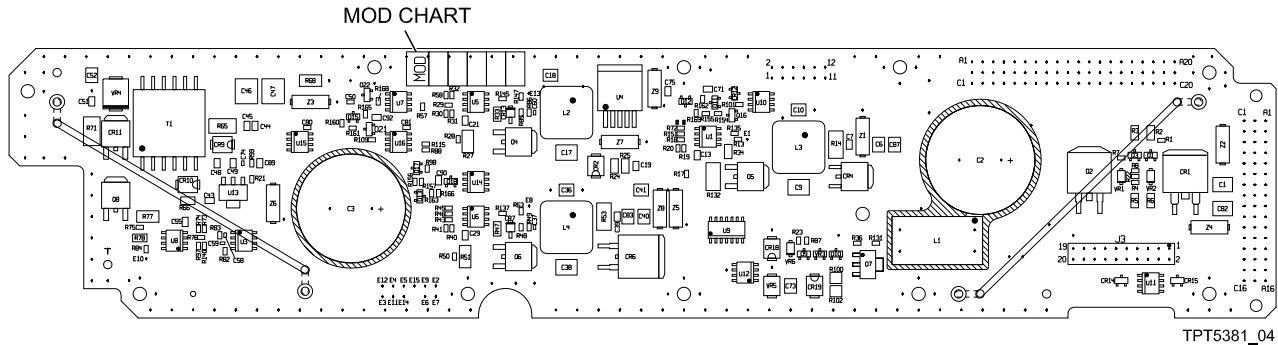
Power Supply Circuit Card A2A4, CPN 828-2633-007, Jumper Wire Location Diagram
Figure 3 (Sheet 2 of 2)

Table 1: Wire Chart

MODIFICATION WIRE USAGE CHART			
NUMBER	CONNECTS	TOP/BOT	GAUGE
1	PAD TO C87-B	Top	30

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- (5) If MOD Chart, CPN 280-3778-110, is not already on the Power Supply Circuit Card A2A4, CPN 828-2633-007, then remove protective backing from MOD Chart, CPN 280-3778-110, and apply to circuit card in approximate location shown in Figure 4.



Power Supply Circuit Card A2A4, CPN 828-2633-007, Marking Location Diagram
Figure 4

- (6) Use permanent ink to mark SB 14 on the MOD chart.
- (7) Reassemble the unit in accordance with the assembly instructions in the Assembly section of the referenced CMMPLs.

B. Testing Procedure

Test the unit in accordance with the test procedures in the Testing and Fault Isolation section of the referenced CMMPLs.

C. Identification Procedure

NOTE: The identification procedure must be accomplished in order for the service bulletin to be complete.

Obliterate or use permanent ink to mark out the number 14 on the unit modification plate.

