



No. EC155-31-030

Civil version(s): B1

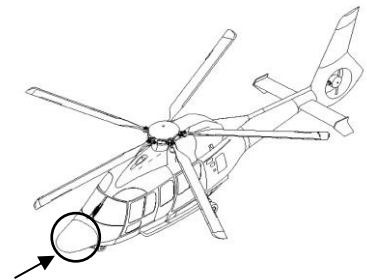
SERVICE BULLETIN

PRODUCT IMPROVEMENT

INDICATING AND RECORDING SYSTEMS

Power supply modification of MFDAU equipment and CVFDR control panel

Corresponds to modification 0731C04



For the attention of



Revision No.	Date of issue
Revision 0	2024-01-10

Summary:

The function of this Service Bulletin is to modify the MFDAU (Miscellaneous Flight Data Acquisition Unit) and SSCVFDR-ED112 power supplies to limit the discharge of the battery.

Compliance:

It is the operator's decision to comply or not to comply with this Service Bulletin.

Export Control:

US Export Control - No US content. This Item does not contain any U.S. origin ITAR or EAR content.

FR Export Control - Not Listed. This Item is not listed against the EC regulations in the EU/FR.

Helicopters: 7018, 7020, 7025, 7031, 7037, 7048, 7052, 7054, 7055, 7057, 7058, 7062, 7063, 7064, 7065

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1. PLANNING INFORMATION



CAUTION

MAKE SURE THAT THE MODIFICATIONS RELATED TO THIS SERVICE BULLETIN AGREE WITH THE HELICOPTER CONFIGURATION AT THIS TIME. IF THE MODIFICATIONS DO NOT AGREE WITH THE HELICOPTER CONFIGURATION:

- PREPARE THE NECESSARY ADAPTATION WORK.
- GET THE APPROVAL BY THE APPLICABLE LOCAL AIR TRANSPORT AUTHORITIES.
- COMPLY WITH THE AIRWORTHINESS REQUIREMENTS.

THIS SERVICE BULLETIN IS WRITTEN FOR THE INITIAL HELICOPTER CONFIGURATION SPECIFIED IN THE INDIVIDUAL INSPECTION LOG BOOK. IT INCLUDES ONLY THE POST-DELIVERY CONFIGURATION CHANGES WHICH ARE KNOWN AND APPROVED BY AIRBUS HELICOPTERS.

1.A. EFFECTIVITY

1.A.1. Helicopters/installed equipment or parts

Helicopters with a serial number listed on page 1 and:

- POST MOD 0731B89
- PRE MOD 0731C04.

NOTE

You can identify the modification status of the helicopter in the Section of applied modifications records in the Individual Inspection Log Book and/or the Aircraft Log Book.

1.A.2. Non-installed equipment or parts

Not applicable.

1.B. ASSOCIATED REQUIREMENTS



CAUTION

BEFORE YOU START THE WORK, MAKE SURE THAT YOUR FLIGHT MANUAL (FLM) IS AT THE LAST UPDATE APPROVED BY THE APPLICABLE AUTHORITIES. REFER TO PARAGRAPH [3.D.](#)

1.C. REASON

The function of this Service Bulletin is to modify the MFDAU (Miscellaneous Flight Data Acquisition Unit) and SSCVFDR-ED112 power supplies to limit the discharge of the battery.

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1.D. DESCRIPTION

The function of this Service Bulletin is to modify the electrical wiring of the MFDAU and SSCVFDR-ED112 power supplies.

1.E. COMPLIANCE

1.E.1. Compliance at H/C manufacturer level

This paragraph is left empty by intention.

1.E.2. Compliance in service

Helicopters/installed equipment or parts:

It is the operator who does the work on the helicopter.

Comply with paragraph [3.B.](#) of this Service Bulletin.

Non-installed equipment or parts:

It is the operator who makes the decision on the level of stock related to the compliance with this Service Bulletin.

1.F. APPROVAL



The technical content of this document is approved under the authority of the Design Organization Approval ref. EASA. 21J.700.

For helicopters operated outside the terrain regulated by the EASA, the application of this document is subject to validation provided by the responsible aviation authority of the state of registry.

1.G. MANPOWER



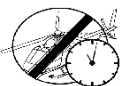
Airbus Helicopters recommends that the personnel who will do this Service Bulletin have this qualification:

Qualification:
1 Electrical Technician.



The man-hours are an estimate given for information only and for a standard helicopter configuration.

Estimated man hours:
4 hours for the Electrical Technician.



The helicopter downtime is an estimate given for information only and for a standard helicopter configuration.

The estimate of the helicopter downtime is half a day.

1.H. WEIGHT AND BALANCE



There is no change in weight and moment.

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1.I. POWER CONSUMPTION

Not applicable.

1.J. SOFTWARE UPGRADES/UPDATES

Not applicable.

1.K. REFERENCES

These documents are necessary to comply with this Service Bulletin:

Aircraft Maintenance Manual (AMM):

AMM: 45-11-04-726B: Functional test of the L3COMSSCVFDR POST MOD 0731C04

AMM: 53-51-00-061: Removal / Installation - Radome

Standard Practices Manual (MTC):

MTC: 20-07-02-201: Helicopter parked in a repair shop - Safety instruction

MTC: 20-07-03-408: Appearance checks on an aircraft after inspection or repair - Technical instructions

MTC: 20-80-20-101: Contact Insertion and Extraction Method and Tools - Standard Practices -
Electrical Power

MTC: 20-80-20-402: Installation / Removal of Cable Ties - Standard Practices - Electrical Power

MTC: 20-80-20-407: Tools and Processes for Stripping Cables - Standard Practices - Electrical Power

MTC: 20-80-20-408: Method for crimping of electrical contacts for a connector - Standard Practices -
Electrical Power

MTC: 20-80-20-413: Assembly of the relays and connection modules - Standard Practices -
Electrical Power

MTC: 20-80-20-422: Methods for Finishing the Back of Connectors or Bulkhead Feed-through Connectors -
Standard Practices - Electrical Power

MTC: 20-80-20-423: Repair Procedure for Spiral, Heat-Shrinkable and Braided Sheaths - Standard Practices
- Electrical Power

MTC: 20-80-20-425: Tools and Settings Associated with the Crimping of Contacts -
Standard Practices - Electrical Power

MTC: 20-80-20-449: Protection of electrical wiring during maintenance operations - Standard Practice -
Electrical Power

MTC: 20-80-20-604: Inspection of the crimping of contacts - Standard Practices - Electrical Power

Information Notice (IN):

IN: 3481-I-00: The Marketplace: an Airbusworld eOrdering service

IN: 3785-I-00: Introduction of the digital Service Bulletin reporting SB Insight

Safety Promotion Notice (SPN)

SPN: 3703-P-00: Foreign Object Damage prevention

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1.L. OTHER AFFECTED PUBLICATIONS



CAUTION

TO COMPLY WITH THIS SERVICE BULLETIN, THE OPERATOR MUST MAKE SURE THAT ALL THE MAINTENANCE DOCUMENTS NECESSARY FOR THE MAINTENANCE OF THIS INSTALLATION ARE AVAILABLE. IF THEY ARE NOT AVAILABLE, THE OPERATOR MUST CONTACT AIRBUS HELICOPTERS TO GET THESE DOCUMENTS.

The Flight Manual (FLM) are updated with the modification. It will be delivered on Customer's request.

1.M. PART INTERCHANGEABILITY OR MIXABILITY

Interchangeability:

The PRE MOD 0731C04 and POST MOD 0731C04 components are not interchangeable.

Mixability:

Not applicable.

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2. EQUIPMENT OR PARTS INFORMATION

2.A. EQUIPMENT OR PARTS: PRICE - AVAILABILITY - PROCUREMENT

Price

For information about the price of the modification kits and/or components, or for aid, contact the Airbus Helicopters Network Sales and Customer Relations Department.

Availability

Contact the Sales and Customer Relations Department to know the delivery lead times.

Procurement

Send an order for the necessary quantities to the Airbus Helicopters Network Sales and Customer Relations Department:

Airbus Helicopters
Etablissement de Marignane
Direction Ventes et Relations Client
13725 MARGNANE CEDEX
FRANCE.

In the purchase order, write the information that follows:

- The mode of transport
- The destination
- The serial numbers of the helicopters to change.

2.B. LOGISTIC INFORMATION

Not applicable.

2.C. EQUIPMENT OR PARTS REQUIRED PER HELICOPTER/COMPONENT

Kits and components to be ordered for one helicopter or one assembly:

Key Word	Qty	New P/N	Item	Old P/N	Instruction
<u>Power supply modification Kit</u>		<u>365A07-31C0-4071</u>			
Cap	2	E0737B0816	1		
Set of wire	1	365A08-4770-0099	2		
Contact	3	EN3155-019F2020	5		
Extention lead	1	E0541-11	6		
Contact	1	EN3155-008M2222	8		

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Key Word	Qty	New P/N	Item	Old P/N	Instruction
Mobile box	1	BJD30-3-20A	3		
Contact	3	174-0013-20	4		
Contact	1	001704-120-02	7		
Module	1	BJD60-3-20P-A	9		

Equipment or parts to be ordered separately:

Key Word	Qty	New P/N	Item	Old P/N	Instruction
Cable (DR 20)	1 m	EN2267-010A006S	10		

Consumables to be ordered separately:

Refer to Work Cards and Tasks mentioned in this Service Bulletin.

You can send an order for the consumables from the AirbusWorld Marketplace through e-ordering (IN 3481-I-00).

If you cannot get access to e-ordering, please contact your Logistic Focal Point.

Special tools:

Refer to Work Cards and Tasks mentioned in this Service Bulletin and the table show below:

Key Word	Qty	P/N or equivalent	Item
Adaptator gpu/batter	1	703A94620800-S6501	(zz)

2.D. EQUIPMENT OR PARTS TO BE RETURNED

Not applicable.

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3. ACCOMPLISHMENT INSTRUCTIONS

3.A. GENERAL

- Comply with the instruction for contact Insertion and Extraction Method and Tools. Refer to Work Card 20-80-20-101 (MTC).
- Comply with the instruction on installation / Removal of Cable Ties - Standard Practices. Refer to Work Card 20-80-20-402 (MTC).
- Comply with the instruction for Tools and Processes for Stripping Cables. Refer to Work Card 20-80-20-407 (MTC).
- Comply with the instruction for method for crimping of electrical contacts for a connector. Refer to Work Card 20-80-20-408 (MTC).
- Comply with the instruction for assembly of the relays and connection modules. Refer to Work Card 20-80-20-413 (MTC).
- Comply with the instruction for the methods for Finishing the Back of Connectors or Bulkhead Feed-through Connectors. Refer to Work Card 20-80-20-422 (MTC).
- Comply with the instruction for the procedure for Spiral, Heat-Shrinkable and Braided Sheaths. Refer to Work Card 20-80-20-423 (MTC).
- Comply with the instruction for Tools and Settings Associated with the Crimping of Contacts. Refer to Work Card 20-80-20-425 (MTC).
- Comply with the instruction for inspection of the crimping of contacts. Refer to Work Card 20-80-20-604 (MTC).

3.B. WORK STEPS



CAUTION

MAKE SURE THAT YOU PREVENT ALL POSSIBLE FOREIGN OBJECT DAMAGE (FOD). REFER TO SAFETY PROMOTION NOTICE (SPN) No. 3703-P-00.

3.B.1. Preliminary steps

- Park the helicopter in a maintenance hangar. Refer to Work Card 20-07-02-201 (MTC).
- Install appropriate access equipment.
- Remove and/or open all applicable cowlings, panels, doors and other items of equipment to get access to the different work areas.
- Disconnect all the electrical power supplies.
- Open the radome. Refer to Task 53-51-00-061 (AMM).
- Protect the electrical wiring in the work area. Refer to the Work Card 20-80-20-449 (MTC).

3.B.2. Procedure ([Figures 1](#) and [2](#))

- Disconnect the wire "2RK20J".
- Install the cap (1) on the wire "2RK20J".
- Do the routing of the set of wires (2) and the cable (10). Refer to the indicated routings.
- Cut to the required length and connect the set of wires (2) with:
 - . The mobile box (3)
 - . The contacts (4), (5), (7) and (8)
 - . The extension lead (6)
 - . The module (9).
- Do a continuity test on the installed cables.

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3.B.3. Tests

- Set the helicopter to test conditions.
- Connect again all the electrical power supplies.
- Energize the helicopter electrical power systems.
- Do the functional tests of the L3COMSSCVFDR. Refer to Task 45-11-04-726B (AMM).

3.B.4. Final steps

- Remove the protection of the electrical wiring in the work area. Refer to the Work Card 20-80-20-449 (MTC).
- Close the radome. Refer to Task 53-51-00-061 (AMM).
- Clean and restore the work areas and the helicopter. Refer to Work Card 20-07-03-408 (MTC).
- Install again and/or close all cowlings, panels, doors and equipment removed and/or opened during preliminary steps (paragraph [3.B.1.](#) of this Service Bulletin).
- Connect all the electrical power supplies.
- Clear the access means.
- Set the helicopter to flight condition.

3.C. RECORD OF COMPLIANCE

Compliance with this document:

Record the full compliance with this Service Bulletin, with the revision number, in the helicopter documents.

Record compliance with this Service Bulletin (see IN 3785-I-00 for instructions):
QR code or hypertext link



NOTE

The recording of compliance with Service Bulletins in the SB Insight tool does not replace the recording in the helicopter documents.

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Tracking of modifications in the documentation:

Record the full embodiment of modification 0731C04 in the helicopter documents.

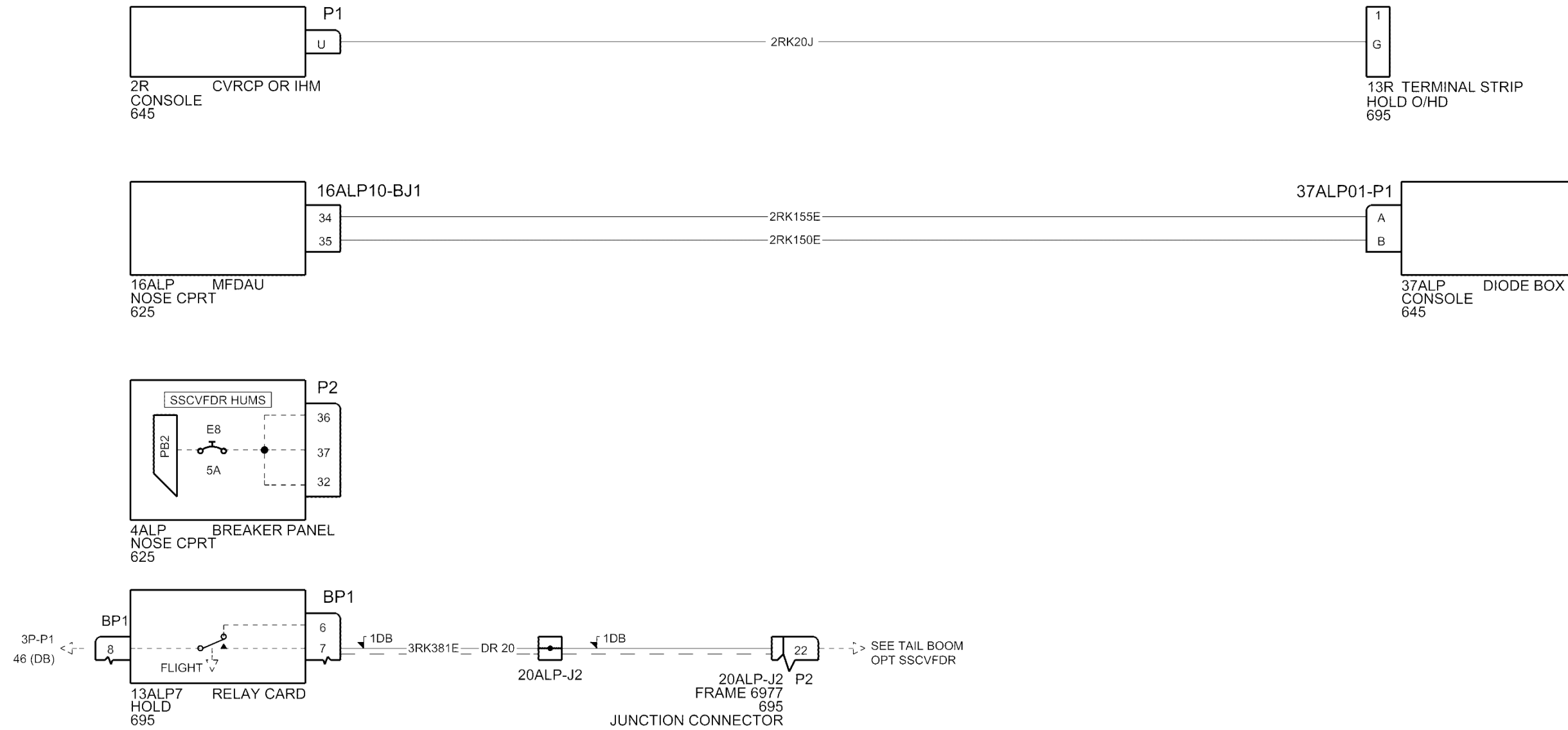
3.D. OPERATING AND MAINTENANCE INSTRUCTIONS

Not applicable.

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PRE MOD



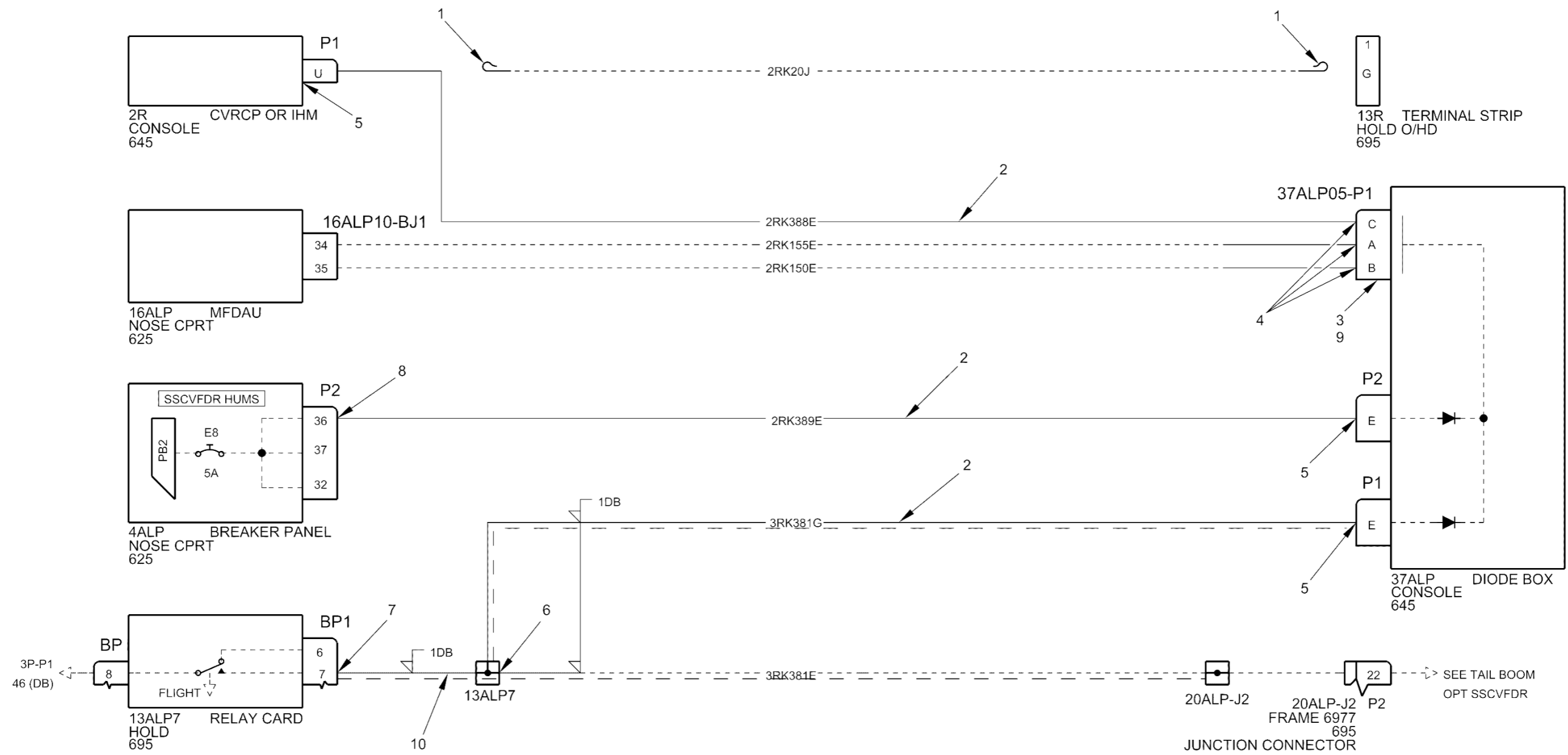
NOTE : UNLESS OTHERWISE SPECIFIED ALL WIRES ARE DR 22 AND SHIELDING CONTINUITY WIRES ARE DR 22
UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 2BA0

Back to paragraph [3.B.2](#).

Figure 1

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POST MOD



NOTE : UNLESS OTHERWISE SPECIFIED ALL WIRES ARE DR 24 AND SHIELDING CONTINUITY WIRES ARE DR 22
UNLESS OTHERWISE SPECIFIED ALL ROUTES ARE 2BA0

Back to paragraph [3.B.2.](#)

Figure 2