
SERVICE BULLETIN

N° **139-602**

OPTIONAL

DATE: September 11, 2024

REV. : /

TITLE

ATA 93 – INSTALLATION OF BMS VIDEO DOWNLINK

REVISION LOG

First Issue

1. PLANNING INFORMATION

A. EFFECTIVITY

AW139 helicopters from S/N 31201 onwards or from S/N 41201 onwards (except S/N 41237) equipped with mission console.

B. COMPLIANCE

At Customer's option.

C. CONCURRENT REQUIREMENTS

As indicated in section E. DESCRIPTION, in order to complete the installation of kit BMS video downlink, a dedicated Service Bulletin is required in addition to SB 139-602. Please, contact Leonardo Helicopter Division (engineering.support.lhd@leonardo.com) at least three months in advance of embodiment date of this Service Bulletin to receive information on the completion of the installation.

D. REASON

This Service Bulletin is issued in order to provide the necessary instructions on how to perform the installation of the kit BMS video downlink P/N 4G9300F01511.

LH issued this SB for the following reason:

| | |
|--|---|
| Helicopter Reliability/Maintainability | |
| Product Improvement | |
| Obsolescence | |
| Customization | ✓ |
| Product/Capability Enhancement | |

E. DESCRIPTION

Installation of BMS Video Downlink system contained in this Service Bulletin is composed of a Digital COFDM Transmitter (HC4) installed in the rear avionic bay which interfaces with a Downlink RF Antenna, installed on the belly of the helicopter, and the GPS antenna. In order to connect all these parts, cable assy shall be laid down from the tail, through the rear avionic bay and the floor to connectors in the cabin ceiling.

This Service Bulletin provides information for the installation of kit BMS video downlink from HC4 transmitter and Downlink antenna to the provision connectors for mission

console in the cabin ceiling. In order to perform the installation of the control panel in mission console and to manage any eventually avionic customization, a dedicated Service Bulletin, based on helicopter configuration, is required (refer to section C. CONCURRENT REQUIREMENTS).

F. APPROVAL

The technical content of this Service Bulletin is approved under the authority of DOA nr. EASA.21.J.005. For helicopters registered under other Aviation Authorities, before applying the Service Bulletin, applicable Aviation Authority approval must be checked within Leonardo Helicopters customer portal.

EASA states mandatory compliance with inspections, modifications or technical directives and related time of compliance by means of relevant Airworthiness Directives.

If an aircraft listed in the effectivity embodies a modification or repair not LH certified and affecting the content of this Service Bulletin, it is responsibility of the Owner/Operator to obtain a formal approval by Aviation Authority having jurisdiction on the aircraft, for any adaptation necessary before incorporation of the present Service Bulletin.

G. MANPOWER

To comply with this Service Bulletin eighty-eight (88) MMH are deemed necessary.

MMH are based on hands-on time and can change with personnel and facilities available. MMH are not comprehensive of the overall hours necessary to get access to work areas and to remove all the equipment that interferes with the application of the prescribed instructions.

H. WEIGHT AND BALANCE

NOTE

Weight and balance data contained in the following table refer to all the parts installed in this Service Bulletin except for BMS Video Downlink Equipment Installation P/N 3G9300A04111.

| WEIGHT (Kg) | ARM (mm) | MOMENT (Kgmm) |
|-----------------------------|----------|---------------|
| | | 1.945 |
| LONGITUDINAL BALANCE | 6315.5 | 12283.6 |
| LATERAL BALANCE | -419.7 | -816.3 |

NOTE

Weight and balance data contained in the following table refer to BMS Video Downlink Equipment Installation P/N 3G9300A04111 except for DLC50N control panel P/N 8714395003 which will be installed through a dedicated Service Bulletin (refer to section C. CONCURRENT REQUIREMENTS).

| | WEIGHT (Kg) | | 4.238 |
|-----------------------------|--------------------|-----------------|----------------------|
| | | ARM (mm) | MOMENT (Kgmm) |
| LONGITUDINAL BALANCE | | 6634.4 | 28116.6 |
| LATERAL BALANCE | | -715.7 | -3033.1 |

I. REFERENCES

I.1 PUBLICATIONS

Following Data Modules refer to AMP:

| <u>DATA MODULE</u> | <u>DESCRIPTION</u> | <u>PART</u> |
|-------------------------------|---|--------------------|
| DM01 39-A-00-20-00-00A-120A-A | Helicopter on ground for a safe maintenance | - |
| DM02 39-A-06-41-00-00A-010A-A | Access doors and panels - General data | - |
| DM03 39-A-11-00-01-00A-720A-A | Decal - Install procedure | - |
| DM04 39-D-23-63-06-00A-921A-K | Antenna support - Replacement (remove and install a new item) | - |
| DM05 39-D-23-63-05-00A-921A-K | Encoder/modulator mounting tray - Replacement (remove and install a new item) | - |
| DM06 39-D-23-63-02-00A-720A-K | Encoder/modulator - Install procedure | - |
| DM07 39-D-23-63-03-00A-720A-K | Antenna - Install procedure | - |
| DM08 39-D-23-63-04-00A-720A-K | GPS antenna - Install procedure | - |

I.2 ACRONYMS & ABBREVIATIONS

- AMDI Aircraft Material Data Information
- AMP Aircraft Maintenance Publication
- BMS Broadcast Microwave Services
- COFDM Coded Orthogonal Frequency-Division Multiplexing
- DM Data Module
- DOA Design Organization Approval
- EASA European Aviation Safety Agency

FLIR Forward Looking Infrared
GPS Global Positioning System
IPD Illustrated Parts Data
LHD Leonardo Helicopters Division
MMH Maintenance Man Hours
RF Radio Frequency

I.3 ANNEX

N.A.

J. PUBLICATIONS AFFECTED

AW139 Aircraft Maintenance Publication (AMP)

AW139 Illustrated Parts Data (IPD)

K. SOFTWARE ACCOMPLISHMENT SUMMARY

N.A.

2. MATERIAL INFORMATION

A. REQUIRED MATERIALS

A.1 PARTS

| # | P/N | ALTERNATIVE P/N | DESCRIPTION | Q.TY | LVL | NOTE | LOG P/N |
|----|-----------------|-----------------|--|------|------|------|-----------|
| 1 | 4G9300F01511 | | KIT BMS VIDEO DOWNLINK | REF | . | | - |
| 2 | 3G9300A04211 | | BMS VIDEO DOWNLINK COMPLETE PROVISION | REF | .. | | - |
| 3 | 3G5311A26211 | | BMS VIDEO DOWNLINK STRUCTURAL PROVISION | REF | ... | | - |
| 4 | 3G5315A92251 | | Bonding layer | 1 | .... | (1) | - |
| 5 | 3G5316A90832 | | GPS antenna support assy | 1 | .... | (1) | - |
| 6 | 3G5317A76431 | | Antenna support assy | 1 | .... | (1) | - |
| 7 | 3G5317A76551 | | Cover | 1 | .... | (1) | - |
| 8 | A297A04TW02 | | Rivet | 20 | .... | (1) | - |
| 9 | MS27039-0805 | | Screw | 5 | .... |  | 139-602L1 |
| 10 | MS27039-1-07 | | Screw | 4 | .... |  | 139-602L1 |
| 11 | NAS1149D0316K | | Washer | 4 | .... |  | 139-602L1 |
| 12 | NAS1149DN832K | | Washer | 5 | .... |  | 139-602L1 |
| 13 | NAS1720C4L1P | | Rivet | 4 | .... |  | 139-602L1 |
| 14 | NAS1832-08-3 | | Insert | 5 | .... |  | 139-602L1 |
| 15 | NAS1836-3-08M | | Insert | 3 | .... |  | 139-602L1 |
| 16 | NAS43DD4-33N | | Spacer | 4 | .... |  | 139-602L1 |
| 17 | 3G9300A04111 | | BMS VIDEO DOWNLINK EQUIPMENT INSTL | REF | ... | | - |
| 18 | 1201325240 | | Downlink antenna | 1 | .... |  | 139-602L1 |
| 19 | 4G1215A-XT-1 | | GPS antenna | 1 | .... |  | 139-602L1 |
| 20 | 8014521010 | | Mounting tray | 1 | .... |  | 139-602L1 |
| 21 | AW007TZ-06 | | Washer | 4 | .... |  | 139-602L1 |
| 22 | 8614521202 | | Heli-coder 4 transmitter | 1 | .... |  | 139-602L1 |
| 23 | 999-7000-20-107 | 120-055-1-5 | Bonding strip | 1 | .... |  | 139-602L1 |
| 24 | ED300A580 | | Decal | 1 | .... |  | 139-602L1 |
| 25 | ED300E160 | | Decal | 1 | .... |  | 139-602L1 |
| 26 | ED300E161 | | Decal | 1 | .... |  | 139-602L1 |
| 27 | LN29943-06018 | | Bolt | 4 | .... |  | 139-602L1 |
| 28 | NAS1149D0316J | | Washer | 4 | .... |  | 139-602L1 |
| 29 | NAS1802-3-9 | | Screw | 4 | .... |  | 139-602L1 |
| 30 | NAS5312V3A12 | | Screw | 4 | .... |  | 139-602L1 |
| 31 | M39029/58-363 | | Electrical contact | 7 | . | | 139-602L1 |
| 32 | M39029/58-364 | | Electrical contact | 1 | . | | 139-602L1 |
| 33 | A523A-A03 | | Electrical contact | 1 | . | | 139-602L1 |
| 34 | M23053/8-004-C | | Insulation sleeving | 2 m | . | | 139-602L1 |
| 35 | M23053/8-005-C | | Insulation sleeving | 2 m | . | | 139-602L1 |
| 36 | 3G4600P00911 | | AVIONIC CUSTOMIZATION UAE SAR VARIANT | REF | . | | - |
| 37 | 3G9D03A22101 | | BMS Video Downlink C/A (D3A221) | 1 | .. | | 139-602L1 |
| 38 | 3G9C03A30201 | | BMS Video Downlink C/A (C3A302) | 1 | .. | | 139-602L1 |
| 39 | 3G9C03A30101 | | BMS Video Downlink C/A (C3A301) | 1 | .. | | 139-602L1 |
| 40 | 3G9C02A40801 | | BMS Video Downlink C/A (C2A408) | 1 | .. | | 139-602L1 |
| 41 | 3G9C01A35001 | 3G9300A04011A3R | BMS Video Downlink C/A (C1A350) | 1 | .. | | 139-602L1 |

| # | P/N | ALTERNATIVE P/N | DESCRIPTION | Q.TY | LVL | NOTE | LOG P/N |
|-----------|---------------------|-----------------|---|------------|-----------|------|-----------|
| 42 | 3G9B01L14801 | | AVIONIC CUSTOM VAR. UAE SAR C/A (B1L148) | REF | .. | | - |
| 43 | A556A-T20 | | Wire | 16 m | ... | | 139-602L1 |
| 44 | A556A-T22 | | Wire | 5 m | ... | | 139-602L1 |
| 45 | M39029/56-351 | | Electrical contact | 4 | ... | | 139-602L1 |
| 46 | M39029/58-364 | | Electrical contact | 1 | ... | | 139-602L1 |
| 47 | M39029/56-352 | | Electrical contact | 2 | ... | | 139-602L1 |
| 48 | M81824/1-2 | | Electrical splice | 1 | ... | | 139-602L1 |
| 49 | 3G9B01L14901 | | AVIONIC CUSTOM VAR. UAE SAR C/A (B1L149) | REF | .. | | - |
| 50 | A556A-T20 | | Wire | 5 m | ... | | 139-602L1 |
| 51 | A556A-T22 | | Wire | 3 m | ... | | 139-602L1 |
| 52 | M39029/56-351 | | Electrical contact | 3 | ... | | 139-602L1 |
| 53 | M39029/58-363 | | Electrical contact | 3 | ... | | 139-602L1 |
| 54 | 3G9A01A70201 | | AVIONIC CUSTOM VAR. UAE SAR C/A (A1A702) | REF | .. | | - |
| 55 | A556A-T20 | | Wire | 3 m | ... | | 139-602L1 |
| 56 | A556A-T22 | | Wire | 3 m | ... | | 139-602L1 |
| 57 | A523A-A01 | | Electrical contact | 1 | ... | | 139-602L1 |
| 58 | M39029/56-351 | | Electrical contact | 1 | ... | | 139-602L1 |
| 59 | M39029/58-363 | | Electrical contact | 1 | ... | | 139-602L1 |
| 60 | M39029/58-364 | | Electrical contact | 1 | ... | | 139-602L1 |
| 61 | 3G9B02L15101 | | AVIONIC CUSTOM VAR. UAE SAR C/A (B2L151) | REF | .. | | - |
| 62 | A561A-T1-20 | | Wire | 37 m | ... | | 139-602L1 |
| 63 | A561A-T3-20 | | Wire | 10 m | ... | | 139-602L1 |
| 64 | M39029/56-351 | | Electrical contact | 14 | ... | | 139-602L1 |
| 65 | 3G9B02L15001 | | AVIONIC CUSTOM VAR. UAE SAR C/A (B2L150) | REF | .. | | - |
| 66 | A561A-T1-20 | | Wire | 8 m | ... | | 139-602L1 |
| 67 | A561A-T3-20 | | Wire | 2 m | ... | | 139-602L1 |
| 68 | A532A400-1702C | | Backshell | 1 | ... | | 139-602L1 |
| 69 | D38999/20WE99SN | | Electrical connector | 1 | ... | | 139-602L1 |
| 70 | M39029/56-351 | | Electrical contact | 7 | ... | | 139-602L1 |
| 71 | M39029/58-363 | | Electrical contact | 7 | ... | | 139-602L1 |
| 72 | MS25281-R15 | | Clamp | 5 | .. | | 139-602L1 |
| 73 | MS25281-R14 | | Clamp | 8 | .. | | 139-602L1 |
| 74 | MS25281-R6 | | Clamp | 3 | .. | | 139-602L1 |
| 75 | NAS1190E3P6AK | | Screw | 8 | .. | | 139-602L1 |
| 76 | NAS1190E3P7AK | | Screw | 3 | .. | | 139-602L1 |
| 77 | NAS1802-3-30 | | Screw | 1 | .. | | 139-602L1 |
| 78 | NAS1190E3P26AK | | Screw | 2 | .. | | 139-602L1 |
| 79 | NAS1190E3P18AK | | Screw | 1 | .. | | 139-602L1 |
| 80 | NAS1802-04-7 | | Screw | 4 | .. | | 139-602L1 |
| 81 | NAS1802-3-10 | | Screw | 1 | .. | | 139-602L1 |
| 82 | NAS1149D0332J | | Washer | 3 | .. | | 139-602L1 |
| 83 | NAS1149DN416J | | Washer | 4 | .. | | 139-602L1 |
| 84 | AW002FT112 | | Grommet | 5 | .. | | 139-602L1 |
| 85 | AW002FT111 | | Grommet | 10 | .. | | 139-602L1 |
| 86 | AW002FT102 | | Grommet | 3 | .. | | 139-602L1 |
| 87 | M85049/95-18A-A | | Flange | 1 | .. | | 139-602L1 |
| 88 | NAS43DD3-40N | | Spacer | 1 | .. | | 139-602L1 |
| 89 | ED300J3137 | | Decal | 2 | .. | | 139-602L1 |
| 90 | ED300J2079 | | Decal | 1 | .. | | 139-602L1 |
| 91 | ED300J2099 | | Decal | 1 | .. | | 139-602L1 |
| 92 | D38999/33W17R | | Cover | 1 | .. | | 139-602L1 |

Refer also to IPD for the spares materials required to comply with the AMP DMs referenced in the accomplishment instructions.

A.2 CONSUMABLES

The following consumable materials, or equivalent, are necessary to accomplish this Service Bulletin:

| # | Spec./LHD code number | DESCRIPTION | Q.TY | NOTE | PART |
|-----|---|------------------------|------|------|------|
| 93 | AWTR033 Code No. 900005846 | Glass fiber 20749 1200 | AR | (2) | - |
| 94 | 199-50-002 Ty I Code No. 900001557 | Resin Araldit LY5138-2 | AR | (2) | - |
| 95 | 199-50-002 Ty II No. 900001558 | Resin Araldit | AR | (2) | - |
| 96 | 199-05-002 Ty I Cl 2 Code No. 900000581 | Adhesive | AR | (2) | - |
| 97 | 199-05-003 Ty I; Cl 2; Form II B No. 900003986 | Sealant tape (C230) | AR | (2) | - |
| 98 | 199-05-002 Ty II Cl 2 Code No. 900004603 | Adhesive | AR | (2) | - |
| 99 | A236A02AB | Edging | AR | (2) | - |
| 100 | EN6049-006-25-5 | Tubing braided | AR | (2) | - |

Refer also to AMDI for the consumable materials required to comply with the AMP DMs referenced in the accomplishment instructions.

A.3 LOGISTIC MATRIX

In order to apply this Service Bulletin, the following Logistic P/N can be ordered in accordance with the applicable notes:

| LOGISTIC P/N | Q.TY (PER HELO) | NOTE | PART |
|--------------|-----------------|------|------|
| 139-602L1 | 1 | - | - |
| 3G5315A92251 | 1 | (1) | - |
| 3G5316A90832 | 1 | (1) | - |
| 3G5317A76431 | 1 | (1) | - |
| 3G5317A76551 | 1 | (1) | - |
| \A297A04TW02 | 20 | (1) | - |

NOTES

- (1) Item to be procure only if GPS antenna is NOT already installed on helicopter.
- (2) Item to be procured as local supply.

B. SPECIAL TOOLS

N.A.

C. INDUSTRY SUPPORT INFORMATION

N.A.

3. ACCOMPLISHMENT INSTRUCTIONS

GENERAL NOTES

- a) Place an identification tag on all components that are re-usable, including the attaching hardware that has been removed to gain access to the modification area and adequately protect them until their later re-use.
 - b) Shape the cables in order to prevent interference with the structure and the other existing installations, using where necessary suitable lacing cords and plastic cable tiedown.
 - c) Exercise extreme care during drilling operations to prevent instruments, cables and hoses damage.
 - d) After drilling, remove all swarf and sharp edges. Apply on bare metal a light film of primer unless the hole is used for ground connection.
 - e) During the installation of bonding braids or components requiring grounding, clean the surface structure in order to obtain a good ground contact.
 - f) Let adhesive cure at room temperature for at least 24 hours unless otherwise specified.
 - g) Exposed thread surface and nut must be protected using a layer of tectyl according to MIL-C-16173 grade I.
 - h) All lengths are in mm.
1. In accordance with AMP DM 39-A-00-20-00-00A-120A-A prepare the helicopter on ground for a safe maintenance. Disconnect the battery, all electrical power sources and/or the external power supply.
 2. In accordance with AMP DM 39-A-06-41-00-00A-010A-A and with reference to Figures 1 thru 7, gain access to the affected area and perform the installation of BMS video downlink structural provision P/N 3G5311A26211 as described in the following procedure:
 - 2.1 With reference to Figure 2 Detail C and Section D-D, drill a hole Ø117.0 thru the forward panel P/N 3P5340A01431.
 - 2.2 With reference to Figure 2 Section D-D and Schematic Section D-D, fill the honeycomb with the adhesive 199-05-002 Ty II CI 2 and apply n°2 plies of glass

fiber 20749 1200 on the cutout edges of the forward panel P/N 3P5340A01431 by means of the resin Araldit 199-50-002 Ty I.

- 2.3 With reference to Figure 2 Detail C and Section D-D, drill n°5 insert holes $\varnothing 14.25 \div 14.38$ thru the forward panel P/N 3P5340A01431.

NOTE

In order to assure a good ground contact, it is allowed to prepare only the area under the shock mounts of the mounting tray.

- 2.4 With reference to Figure 2 Detail C and Section D-D, prepare the indicated surface to assure a good ground contact.
- 2.5 With reference to Figure 2 Section D-D, install n°5 inserts P/N NAS1832-08-3 on the forward panel P/N 3P5340A01431 by means of the adhesive 199-05-002 Ty II, CI 2.
- 2.6 In accordance with the applicable steps of AMP DM 39-D-23-63-06-00A-921A-K and with reference to Figure 1 View A and Figure 2 Section D-D, install the antenna support assy P/N 3G5317A76431 on the forward panel P/N 3P5340A01431 by means of n°5 screws P/N MS27039-0805 and n°5 washers P/N NAS1149DN832K.

NOTE

If necessary, it is possible to move the installation of heli-coder 4 transmitter up to 55 mm to the RH side with respect the indicated position.

- 2.7 With reference to Figure 3 Section B-B and Section G-G, drill n°4 holes $\varnothing 15.53$ thru the panel P/N 3P5340A03531.
- 2.8 With reference to Figure 3 Section B-B, prepare the surface of panel P/N 3P5340A03531 to assure a good ground contact.
- 2.9 With reference to Figure 3 Section B-B and Section G-G, install n°4 spacers P/N NAS43DD4-33N on the panel P/N 3P5340A03531 by means of the adhesive 199-05-002 Ty II, CI 2.
- 2.10 With reference to Figure 4 Section E-E and Detail H, perform the indicated cutout thru the upper panel assy P/N 3P5340A01135.

NOTE

Perform following Steps 2.11 thru 2.20 only if GPS antenna is NOT already installed on helicopter.

- 2.11 With reference to Figure 6 Section M-M, perform the indicated cutout thru the tail rotor shaft cowling assy P/N 3G5355A00635.
- 2.12 With reference to Figure 5 View J and Figure 6 Section M-M, apply n°2 plies of

- glass fiber 20749 1200 on the tail rotor shaft cowling assy P/N 3G5355A00635 by means of the resin Araldit 199-50-002 Ty II and the catalyst 199-50-002 Ty II.
- 2.13 With reference to Figure 5 Detail F, Figure 6 Section K-K and Figure 7 Section L-L, temporarily locate the GPS antenna support assy P/N 3G5316A90832 and the bonding layer P/N 3G5315A92251 on the tail rotor shaft cowling assy P/N 3G5355A00635 and countermark n°2 rivet holes positions on the bonding layer P/N 3G5315A92251.
 - 2.14 With reference to Figure 5 View J and Figure 6 Section K-K, drill n°2 rivet holes in the previously marked positions thru the bonding layer P/N 3G5315A92251.
 - 2.15 With reference to Figure 6 Section K-K and Figure 7 Section L-L, prepare the indicated surface to assure a good ground contact.
 - 2.16 With reference to Figure 7 section L-L, install the bonding layer P/N 3G5315A92251 on the tail rotor shaft cowling assy P/N 3G5355A00635 by means of the adhesive 199-05-002 Ty I CI 2.
 - 2.17 With reference Figure 7 Section L-L and Section P-P, fix one end of the bonding layer P/N 3G5315A92251 to the existing bonding layer P/N 3G5315A21851 by means of n°4 rivets P/N NAS1720C4L1P.
 - 2.18 With reference Figure 5 View J and Figure 6 Section K-K, install the GPS antenna support assy P/N 3G5316A90832 on the tail rotor shaft cowling assy P/N 3G5355A00635 by means of n°20 rivets P/N A297A04TW02.
 - 2.19 With reference Figure 7 Section N-N, drill n°3 insert holes $\varnothing 11.48 \div 11.61$ thru the tail rotor shaft cowling assy P/N 3G5355A00635.
 - 2.20 With reference Figure 7 Section N-N, install n°3 inserts P/N NAS1836-3-08M on the tail rotor shaft cowling assy P/N 3G5355A00635 by means of the adhesive 199-05-002 Ty II, CI 2.

NOTE

Use the edging P/N A236A on edges which are liable to cause damage to cable assemblies or where abrasion may occur.

NOTE

Install the tubing braided P/N A582A where protection against chafing and prevention of contact with structure may occur, but the tubing protection is not substitute for good routing practice.

3. In accordance with AMP DM 39-A-06-41-00-00A-010A-A and with reference to Figures 8 thru 13 and Figures 17 thru 20 wiring diagram, gain access to the affected area and

perform the installation of the avionic customization UAE SAR variant P/N 3G4600P00911 as follows:

- 3.1 With reference to Figure 10 View A, install the flange P/N M85049/95-18A-A by means of n°4 screws P/N NAS1802-04-7 and n°4 washers P/N NAS1149DN416J.

NOTE

When necessary replace existing clamp with suitable clamp.

- 3.2 With reference to Figures 8 thru 13, lay down the following cable assemblies following existing routes unless otherwise indicated on the figures:

- 3G9D03A22101 BMS Video Downlink C/A (D3A221);
- 3G9C03A30201 BMS Video Downlink C/A (C3A302);
- 3G9C03A30101 BMS Video Downlink C/A (C3A301);
- 3G9300A04011A3R BMS Video Downlink C/A (C2A408);
- 3G9300A04011A3R BMS Video Downlink C/A (C1A350).

Secure the cable assemblies by means of existing hardware and lacing cords.

- 3.3 With reference to Figure 9 and Figure 19 Wiring Diagram, assemble the Avionic custom var. UAE SAR C/A P/N 3G9B01L14801 (B1L148) as described in the following procedure:

- 3.3.1 With reference to Figure 9 and Figure 19 Wiring Diagram, cut n°1 wire P/N A556A-T20 of adequate length and lay down between connector J115 and connector P201 following existing routes unless otherwise indicated on the figures.

- 3.3.2 With reference to Figure 19 Wiring Diagram, crimp on wire n°1 electrical contact P/N M39029/56-352 on J115 side and n°1 electrical contact P/N M39029/56-351 on P201 side.

- 3.3.3 With reference to Figure 19 Wiring Diagram, mark wire as U7141B20-G-ME by means of marker sleeves P/N A578A.

- 3.3.4 With reference to Figure 9 and Figure 19 Wiring Diagram, cut n°1 wire P/N A556A-T22 of adequate length and lay down between connector J115 and connector P201 following existing routes unless otherwise indicated on the figures.

- 3.3.5 With reference to Figure 19 Wiring Diagram, crimp on wire n°1 electrical contact P/N M39029/56-351 on J115 side and n°1 electrical contact P/N M39029/56-351 on P201 side.

- 3.3.6 With reference to Figure 19 Wiring Diagram, mark wire as U7142B22-G-ME by means of marker sleeves P/N A578A.
- 3.3.7 With reference to Figure 9 and Figure 19 Wiring Diagram, cut n°1 wire P/N A556A-T20 of adequate length and lay down between electrical splice P/N M81824/1-2 (SP21146) and connector PL1P7 following existing routes unless otherwise indicated on the figures.
- 3.3.8 With reference to Figure 19 Wiring Diagram, crimp on wire n°1 electrical contact P/N M39029/58-364 on PL1P7 side.
- 3.3.9 With reference to Figure 19 Wiring Diagram, mark wire as U7140A20-G-ME by means of marker sleeves P/N A578A.
- 3.3.10 With reference to Figure 9, Figure 11 and Figure 19 Wiring Diagram, cut n°1 wire P/N A556A-T20 of adequate length and lay down between electrical splice P/N M81824/1-2 (SP21146) and connector J207 following existing routes unless otherwise indicated on the figures.
- 3.3.11 With reference to Figure 19 Wiring Diagram, crimp on wire n°1 electrical contact P/N M39029/56-352 on J207 side.
- 3.3.12 With reference to Figure 19 Wiring Diagram, mark wire as U7140B20-G-ME by means of marker sleeves P/N A578A.
- 3.3.13 With reference to Figure 9 and Figure 19 Wiring Diagram, cut n°1 wire P/N A556A-T20 of adequate length and lay down between electrical splice P/N M81824/1-2 (SP21146) and connector P201 following existing routes unless otherwise indicated on the figures.
- 3.3.14 With reference to Figure 19 Wiring Diagram, crimp on wire n°1 electrical contact P/N M39029/56-351 on P201 side.
- 3.3.15 With reference to Figure 19 Wiring Diagram, mark wire as U7140C20-G-ME by means of marker sleeves P/N A578A.
- 3.3.16 Mark the cable assembly obtained as B1L148 by means of marker sleeves P/N A578A.
- 3.4 With reference to Figure 9 and Figure 19 Wiring Diagram, assemble the Avionic custom var. UAE SAR C/A P/N 3G9B01L14901 (B1L149) as described in the following procedure:
 - 3.4.1 With reference to Figure 9 and Figure 19 Wiring Diagram, cut n°1 wire P/N A556A-T20 of adequate length and lay down between connector J201 and connector J2099 following existing routes unless otherwise indicated on the figures.

- 3.4.2 With reference to Figure 19 Wiring Diagram, crimp on wire n°1 electrical contact P/N M39029/58-363 on J201 side and n°1 electrical contact P/N M39029/56-351 on J2099 side.
- 3.4.3 With reference to Figure 19 Wiring Diagram, mark wire as U7140D20-G-ME by means of marker sleeves P/N A578A.
- 3.4.4 With reference to Figure 9 and Figure 19 Wiring Diagram, cut n°1 wire P/N A556A-T20 of adequate length and lay down between connector J201 and connector J2099 following existing routes unless otherwise indicated on the figures.
- 3.4.5 With reference to Figure 19 Wiring Diagram, crimp on wire n°1 electrical contact P/N M39029/58-363 on J201 side and n°1 electrical contact P/N M39029/56-351 on J2099 side.
- 3.4.6 With reference to Figure 19 Wiring Diagram, mark wire as U7141A20-G-ME by means of marker sleeves P/N A578A.
- 3.4.7 With reference to Figure 9 and Figure 19 Wiring Diagram, cut n°1 wire P/N A556A-T22 of adequate length and lay down between connector J201 and connector J2099 following existing routes unless otherwise indicated on the figures.
- 3.4.8 With reference to Figure 19 Wiring Diagram, crimp on wire n°1 electrical contact P/N M39029/58-363 on J201 side and n°1 electrical contact P/N M39029/56-351 on J2099 side.
- 3.4.9 With reference to Figure 19 Wiring Diagram, mark wire as U7142C22-G-ME by means of marker sleeves P/N A578A.
- 3.4.10 Mark the cable assembly obtained as B1L149 by means of marker sleeves P/N A578A.
- 3.5 With reference to Figure 9 and Figure 19 Wiring Diagram, assemble the Avionic custom var. UAE SAR C/A P/N 3G9A01A70201 (A1A702) as described in the following procedure:
 - 3.5.1 With reference to Figure 9 and Figure 19 Wiring Diagram, cut n°1 wire P/N A556A-T20 of adequate length and lay down between connector P115 and connector TB121P1 following existing routes unless otherwise indicated on the figures.
 - 3.5.2 With reference to Figure 19 Wiring Diagram, crimp on wire n°1 electrical contact P/N M39029/58-364 on P115 side and n°1 electrical contact P/N M39029/56-351 on TB121P1 side.
 - 3.5.3 With reference to Figure 19 Wiring Diagram, mark wire as U7141C20N-G-ME by means of marker sleeves P/N A578A.

- 3.5.4 With reference to Figure 9 and Figure 19 Wiring Diagram, cut n°1 wire P/N A556A-T22 of adequate length and lay down between connector P115 and terminal board TB136/4 following existing routes unless otherwise indicated on the figures.
- 3.5.5 With reference to Figure 19 Wiring Diagram, crimp on wire n°1 electrical contact P/N M39029/58-363 on P115 side and n°1 electrical contact P/N A523A-A01 on TB136/4 side.
- 3.5.6 With reference to Figure 19 Wiring Diagram, mark wire as U7142A22-G-ME by means of marker sleeves P/N A578A.
- 3.5.7 Mark the cable assembly obtained as A1A702 by means of marker sleeves P/N A578A.
- 3.6 With reference to Figure 9 and Figure 20 Wiring Diagram, assemble the Avionic custom var. UAE SAR C/A P/N 3G9B02L15001 (B2L150) as described in the following procedure:
 - 3.6.1 With reference to Figure 9 and Figure 20 Wiring Diagram, cut n°1 wire P/N A561A-T3-20 of adequate length and lay down between connector J2079 P/N D38999/20WE99SN and connector J221 following existing routes unless otherwise indicated on the figures.
 - 3.6.2 With reference to Figure 20 Wiring Diagram, crimp on white, orange and blue wires n°1 electrical contact P/N M39029/56-351 on J2079 side and n°1 electrical contact P/N M39029/58-363 on J221 side.
 - 3.6.3 Apply n°1 insulation sleeve P/N M23053/8-005-C on both ends of the wire near the electrical contacts.
 - 3.6.4 With reference to Figure 20 Wiring Diagram, mark wire as U7145A20-S-ME by means of marker sleeves P/N A578A.
 - 3.6.5 With reference to Figure 9 and Figure 20 Wiring Diagram, cut n°1 wire P/N A561A-T1-20 of adequate length and lay down between connector J2079 and connector J221 following existing routes unless otherwise indicated on the figures.
 - 3.6.6 With reference to Figure 20 Wiring Diagram, crimp on wire n°1 electrical contact P/N M39029/56-351 on J2079 side and n°1 electrical contact P/N M39029/58-363 on J221 side.
 - 3.6.7 Apply n°1 insulation sleeve P/N M23053/8-004-C on both ends of the wire near the electrical contacts.
 - 3.6.8 With reference to Figure 20 Wiring Diagram, mark wire as U7143A20-S-ME by means of marker sleeves P/N A578A.

- 3.6.9 With reference to Figure 9 and Figure 20 Wiring Diagram, cut n°1 wire P/N A561A-T1-20 of adequate length and lay down between connector J2079 and connector J221 following existing routes unless otherwise indicated on the figures.
- 3.6.10 With reference to Figure 20 Wiring Diagram, crimp on wire n°1 electrical contact P/N M39029/56-351 on J2079 side and n°1 electrical contact P/N M39029/58-363 on J221 side.
- 3.6.11 Apply n°1 insulation sleeve P/N M23053/8-004-C on both ends of the wire near the electrical contacts.
- 3.6.12 With reference to Figure 20 Wiring Diagram, mark wire as U7144A20-S-ME by means of marker sleeves P/N A578A.
- 3.6.13 With reference to Figure 9 and Figure 20 Wiring Diagram, cut n°1 wire P/N A561A-T1-20 of adequate length and lay down between connector J2079 and connector J221 following existing routes unless otherwise indicated on the figures.
- 3.6.14 With reference to Figure 20 Wiring Diagram, crimp on wire n°1 electrical contact P/N M39029/56-351 on J2079 side and n°1 electrical contact P/N M39029/58-363 on J221 side.
- 3.6.15 Apply n°1 insulation sleeve P/N M23053/8-004-C on both ends of the wire near the electrical contacts.
- 3.6.16 With reference to Figure 20 Wiring Diagram, mark wire as U7146A20-S-ME by means of marker sleeves P/N A578A.
- 3.6.17 With reference to Figure 9 and Figure 20 Wiring Diagram, cut n°1 wire P/N A561A-T1-20 of adequate length and lay down between connector J2079 and connector J221 following existing routes unless otherwise indicated on the figures.
- 3.6.18 With reference to Figure 20 Wiring Diagram, crimp on wire n°1 electrical contact P/N M39029/56-351 on J2079 side and n°1 electrical contact P/N M39029/58-363 on J221 side.
- 3.6.19 Apply n°1 insulation sleeve P/N M23053/8-004-C on both ends of the wire near the electrical contacts.
- 3.6.20 With reference to Figure 20 Wiring Diagram, mark wire as U7147A20-S-ME by means of marker sleeves P/N A578A.
- 3.6.21 With reference to Figure 10 View A, install the backshell P/N A532A400-1702C on the connector J2079 P/N D38999/20WE99SN.

- 3.6.22 Mark the cable assembly obtained as B2L150 by means of marker sleeves P/N A578A.
- 3.7 With reference to Figure 9, Figure 10, Figure 11 and
- 3.8 Wiring Diagram, assemble the Avionic custom var. UAE SAR C/A P/N 3G9B02L15101 (B2L151) as described in the following procedure:
 - 3.8.1 With reference to Figure 9, Figure 10, Figure 11 and Figure 20 Wiring Diagram, cut n°1 wire P/N A561A-T3-20 of adequate length and lay down between connector P221 and connector J209 following existing routes unless otherwise indicated on the figures.
 - 3.8.2 With reference to Figure 20 Wiring Diagram, crimp on white, orange and blue wires n°1 electrical contact P/N M39029/56-351 on P221 side and n°1 electrical contact P/N M39029/56-351 on J209 side.
 - 3.8.3 Apply n°1 insulation sleeve P/N M23053/8-005-C on both ends of the wire near the electrical contacts.
 - 3.8.4 With reference to Figure 20 Wiring Diagram, mark wire as U7145B20-S-ME by means of marker sleeves P/N A578A.
 - 3.8.5 With reference to Figure 9, Figure 10, Figure 11 and Figure 20 Wiring Diagram, cut n°1 wire P/N A561A-T1-20 of adequate length and lay down between connector P221 and connector J209 following existing routes unless otherwise indicated on the figures.
 - 3.8.6 With reference to Figure 20 Wiring Diagram, crimp on wire n°1 electrical contact P/N M39029/56-351 on P221 side and n°1 electrical contact P/N M39029/56-351 on J209 side.
 - 3.8.7 Apply n°1 insulation sleeve P/N M23053/8-004-C on both ends of the wire near the electrical contacts.
 - 3.8.8 With reference to Figure 20 Wiring Diagram, mark wire as U7143B20-S-ME by means of marker sleeves P/N A578A.
 - 3.8.9 With reference to Figure 9, Figure 10, Figure 11 and Figure 20 Wiring Diagram, cut n°1 wire P/N A561A-T1-20 of adequate length and lay down between connector P221 and connector J209 following existing routes unless otherwise indicated on the figures.
 - 3.8.10 With reference to Figure 20 Wiring Diagram, crimp on wire n°1 electrical contact P/N M39029/56-351 on P221 side and n°1 electrical contact P/N M39029/56-351 on J209 side.
 - 3.8.11 Apply n°1 insulation sleeve P/N M23053/8-004-C on both ends of the wire near the electrical contacts.

- 3.8.12 With reference to Figure 20 Wiring Diagram, mark wire as U7144B20-S-ME by means of marker sleeves P/N A578A.
- 3.8.13 With reference to Figure 9, Figure 10, Figure 11 and Figure 20 Wiring Diagram, cut n°1 wire P/N A561A-T1-20 of adequate length and lay down between connector P221 and connector J209 following existing routes unless otherwise indicated on the figures.
- 3.8.14 With reference to Figure 20 Wiring Diagram, crimp on wire n°1 electrical contact P/N M39029/56-351 on P221 side and n°1 electrical contact P/N M39029/56-351 on J209 side.
- 3.8.15 Apply n°1 insulation sleeve P/N M23053/8-004-C on both ends of the wire near the electrical contacts.
- 3.8.16 With reference to Figure 20 Wiring Diagram, mark wire as U7146B20-S-ME by means of marker sleeves P/N A578A.
- 3.8.17 With reference to Figure 9, Figure 10, Figure 11 and Figure 20 Wiring Diagram, cut n°1 wire P/N A561A-T1-20 of adequate length and lay down between connector P221 and connector J209 following existing routes unless otherwise indicated on the figures.
- 3.8.18 With reference to Figure 20 Wiring Diagram, crimp on wire n°1 electrical contact P/N M39029/56-351 on P221 side and n°1 electrical contact P/N M39029/56-351 on J209 side.
- 3.8.19 Apply n°1 insulation sleeve P/N M23053/8-004-C on both ends of the wire near the electrical contacts.
- 3.8.20 With reference to Figure 20 Wiring Diagram, mark wire as U7147B20-S-ME by means of marker sleeves P/N A578A.
- 3.8.21 Mark the cable assembly obtained as B2L151 by means of marker sleeves P/N A578A.

NOTE

In case of pin R of TB303 is already occupied, refer to Figure 19 Wiring Diagram in order to install wire T3468A20N-G.

- 3.9 With reference to Figure 11, Figure 12 and Figure 17 wiring diagram, perform the electrical connection of C/A C1A350 between connector P207 and terminal board TB303.

NOTE

In case of pin B of connector P209 is already occupied, refer to Figure 19 Wiring Diagram in order to install wire T3462C20-S.

- 3.10 With reference to Figure 11 and Figure 17 wiring diagram, perform the electrical connection of C/A C1A408 between connectors A580P7 and P209.
- 3.11 With reference to Figure 16 view B and Figure 17 wiring diagram, perform the electrical connection of C/A C3A31 between connectors E160P1 and A580P5.
- 3.12 With reference to Figure 17 wiring diagram, protect the C/A C2A408 in the indicated zones next to the connectors by means of n°4 insulations sleeving P/N M23053/8-004-C and n°3 insulations sleeving P/N M23053/8-005-C.
- 3.13 With reference to Figure 11, Figure 12 and Figure 17 wiring diagram, connect the C/A C3A302 (connector J3137) to C/A D3A221 (connector P3137).
- 3.14 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 12, install n°2 decals P/N ED300J3137 in the area adjacent the connector J3137.
- 3.15 With reference to Figure 19 Wiring Diagram, perform the electrical connection of C/A B1L148 between connector J207, connector P201, connector PL1P7 and connector J115.
- 3.16 With reference to Figure 19 Wiring Diagram, perform the electrical connection of C/A B1L149 between connector J201 and connector J2099.
- 3.17 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 10 View A, install the decal P/N ED300J2099 in the area adjacent to the connector J2099.
- 3.18 With reference to Figure 19 Wiring Diagram, perform the electrical connection of C/A A1A702 between connector P115, terminal board TB121P1 and terminal board TB136-4.

NOTA

If, performing Step 3.9, pin M of connector P209 has been used instead of pin B, perform the same substitution also for connector J209.

- 3.19 With reference to Figure 20 Wiring Diagram, perform the electrical connection of C/A B2L151 between connector J209 and connector P221.
- 3.20 With reference to Figure 20 Wiring Diagram, perform the electrical connection of C/A B2L150 between connector J221 and connector J2079.
- 3.21 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to

- Figure 10 View A, install the decal P/N ED300J2079 in the area adjacent to the connector J2079.
- 3.22 With reference to Figure 13, if present remove and discard existing hardware except washers on kit GPS and on number 2 GPS.
 - 3.23 With reference to Figure 13, safety the cable assembly D3A221 by means of n°3 clamps P/N MS25281-R15, n°3 screws P/N NAS1190E3P6AK, n°3 grommets P/N AW002FT112 and n°3 previously removed washers.
 - 3.24 With reference to Figure 13, safety the cable assembly D3A221 by means of n°2 clamps P/N MS25281-R14, n°2 screws P/N NAS1190E3P6AK, n°2 grommets P/N AW002FT111 and n°2 previously removed washers.
 - 3.25 With reference to Figure 13, safety the cable assembly D3A221 by means of n°3 clamps P/N MS25281-R6, n°3 screws P/N NAS1190E3P6AK, n°3 washers P/N NAS1149D0332J and n°3 grommets P/N AW002FT102.
 - 3.26 With reference to Figure 12, if present remove and discard the existing clamps and screws on kit number 2 GPS.
 - 3.27 With reference to Figure 12, safety the cable assembly C3A302 by means of n°3 clamps P/N MS25281-R14, n°3 screws P/N NAS1190E3P7AK, n°3 grommets P/N AW002FT111 and previously removed washers.
 - 3.28 With reference to Figure 12, if present remove and discard n°2 existing grommets on kit number 2 GPS and install n°2 new grommets P/N AW002FT111.
 - 3.29 With reference to Figure 12, safety the cable assembly C3A302 by means of the clamp P/N MS25281-R14, the screw P/N NAS1802-3-30, the grommet P/N AW002FT111 and previously removed washer and spacer.
 - 3.30 With reference to Figure 12, safety the cable assembly C3A302 by means of n°2 clamps P/N MS25281-R14, n°2 screws P/N NAS1190E3P26AK, n°2 grommets P/N AW002FT111 and previously removed washers and spacers.
 - 3.31 With reference to Figure 9 View looking cabin from STA 3120 to STA 3900, remove and discard n°2 existing clamps and related screws.
 - 3.32 With reference to Figure 9 View looking cabin from STA 3120 to STA 3900, safety the cable assemblies B1L149 and B1L150 by means of the clamp P/N MS25281-R15, the screw P/N NAS1190E3P18AK, the grommet P/N AW002FT112, the spacer P/N NAS43DD3-40N and previously removed washer.
 - 3.33 With reference to Figure 9 View looking cabin from STA 3120 to STA 3900, safety the cable assemblies B1L149 and B1L150 by means of the clamp P/N MS25281-R15, the screw P/N NAS1802-3-10, the grommet P/N AW002FT112 and previously removed washer.

- 3.34 Perform a pin-to-pin continuity check of all the electrical connections made.
4. In accordance with DM 39-A-06-41-00-00A-010A-A and with reference to Figures 14 thru 16, gain access to the affected area and perform the BMS video downlink equipment installation P/N 3G9300A04111 as described in the following procedure:

NOTE

If necessary, in order to ensure a proper installation of the mounting tray P/N 8014521010, it is possible to use bolts of two increments greater or lesser with respect to the indicated ones.

- 4.1 In accordance with the applicable steps of AMP DM 39-D-23-63-05-00A-921A-K and with reference to Figure 15 View D, install the mounting tray P/N 8014521010 and the bonding strip P/N 999-7000-20-107 in their position on the structure.
- 4.2 In accordance with AMP DM 39-D-23-63-02-00A-720A-K and with reference to Figure 15 View A and View D, install the heli-coder 4 transmitter P/N 8614521202 in its position on the mounting tray P/N 8014521010.
- 4.3 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 15 View A, apply the decal P/N ED300A580 on the heli-coder 4 transmitter P/N 8614521202.
- 4.4 In accordance with AMP DM 39-D-23-63-03-00A-720A-K and with reference to Figure 16 View B, install the downlink antenna P/N 1201325240 in its position on the antenna support assy P/N 3G5316A90832.
- 4.5 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 16 View B, apply the decal P/N ED300E160 on the downlink antenna P/N 1201325240.

NOTE

Perform following Steps 4.6 and 4.7 only if GPS antenna is NOT already installed on helicopter.

- 4.6 In accordance with AMP DM 39-D-23-63-04-00A-720A-K and with reference to Figure 16 View C, install the GPS antenna P/N 4G1215A-XT-1 in its position on the GPS antenna support P/N 3G5316A90832.
- 4.7 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 16 View C, apply the decal P/N ED300E161 on the GPS antenna P/N 4G1215A-XT-1.
5. In accordance with weight and balance changes, update the Chart A (see Rotorcraft Flight Manual, Part II, section 6).
6. Return the helicopter to flight configuration and record for compliance with this Service

Bulletin on the helicopter logbook.

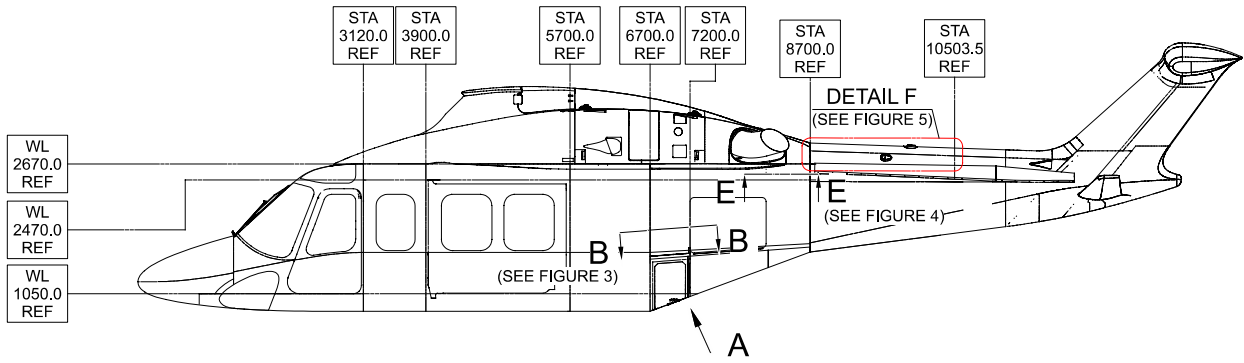
7. Gain access to My Communications section on [Leonardo Customer Portal](#) and compile the "Service - Technical Bulletin Application".

As an alternative, send the attached compliance form to the following mail box:

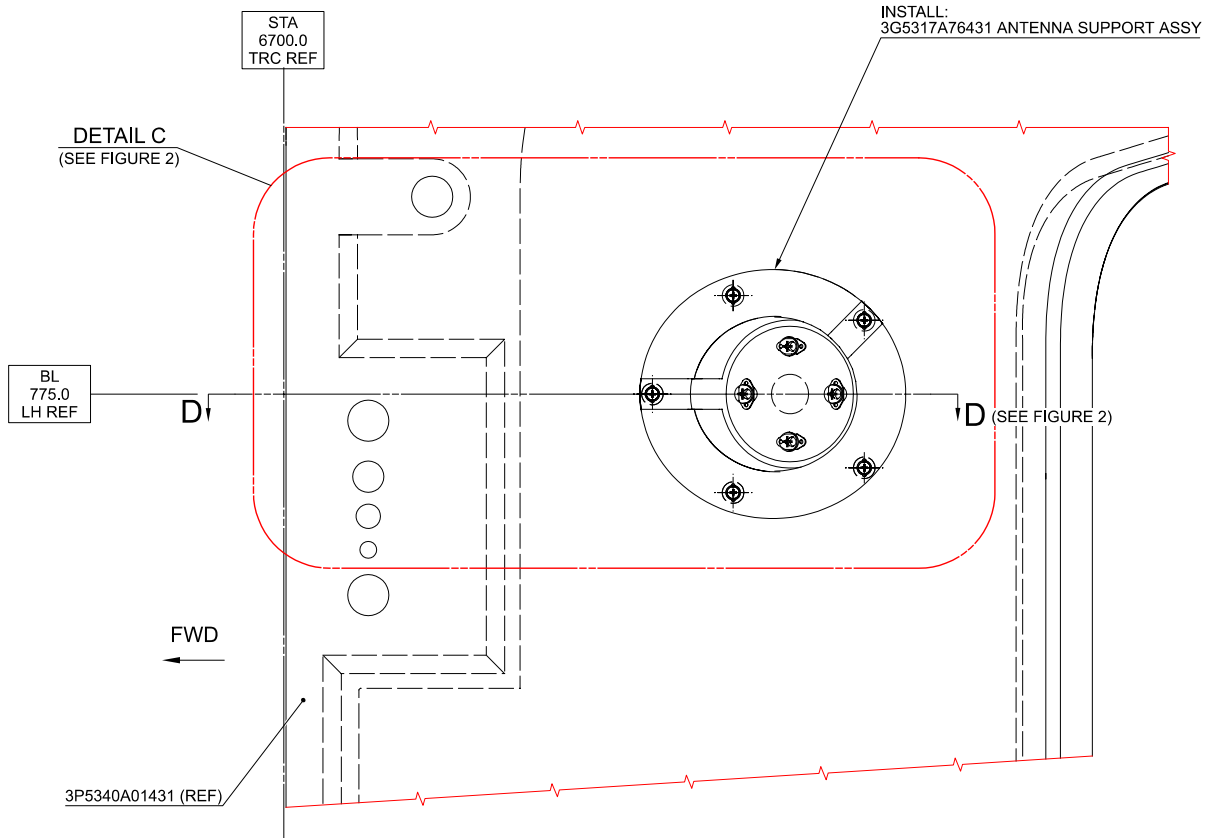
engineering.support.lhd@leonardo.com

and (for North, Central and South America) also to:

AWPC.Engineering.Support@leonardocompany.us



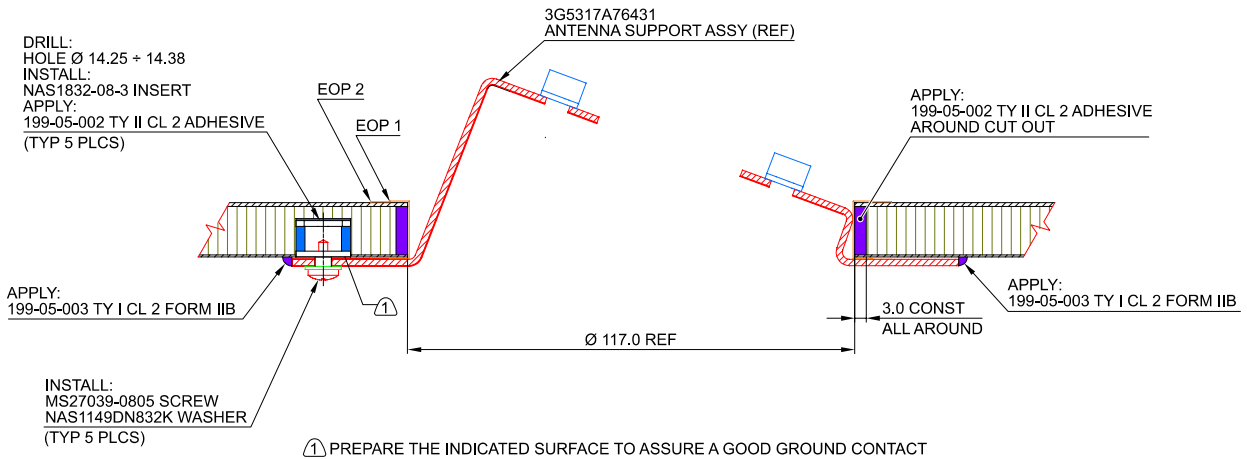
VIEW LOOKING INBOARD LEFT SIDE



VIEW A
VIEW NORMAL TO PANEL PLANE
ROTATED 20.3° CW
PARTS OMITTED FOR BETTER CLARITY PURPOSE

BMS VIDEO DOWNLINK STRUCTURAL PROVISION
3G5311A26211

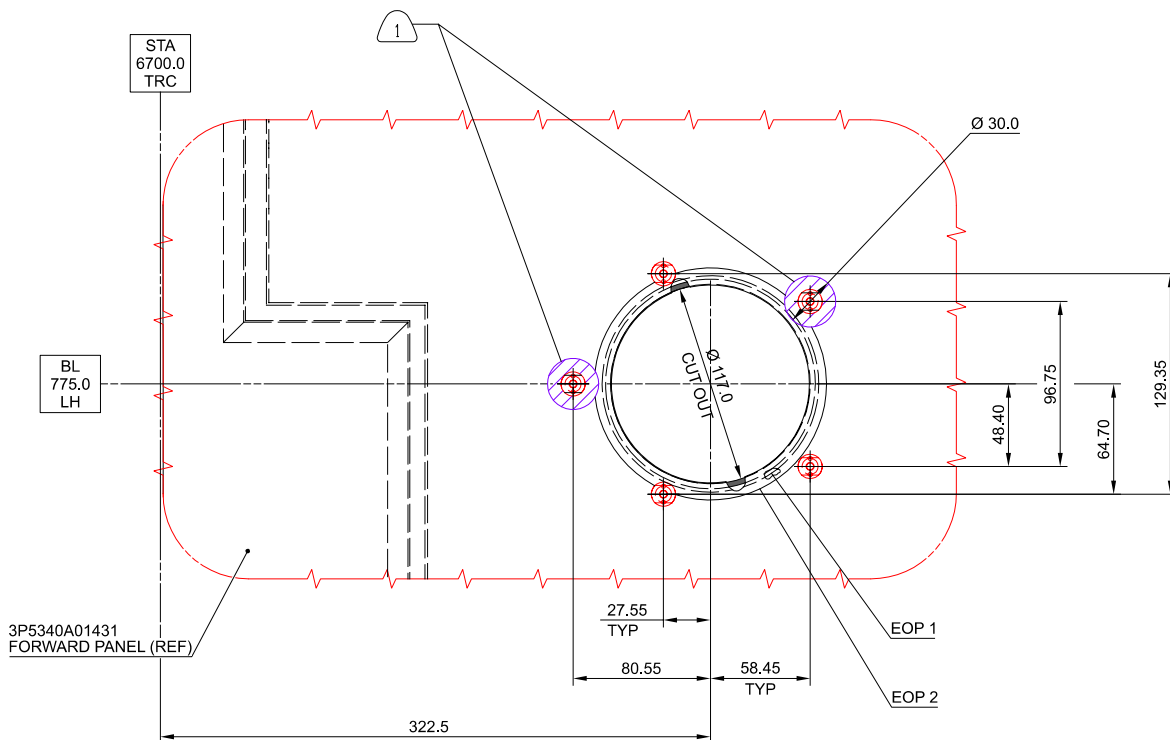
Figure 1



SECTION D-D
(REFER TO FIGURE 1)



SCHEMATIC SECTION D-D



① PREPARE THE INDICATED SURFACE TO ASSURE A GOOD GROUND CONTACT

DETAIL C

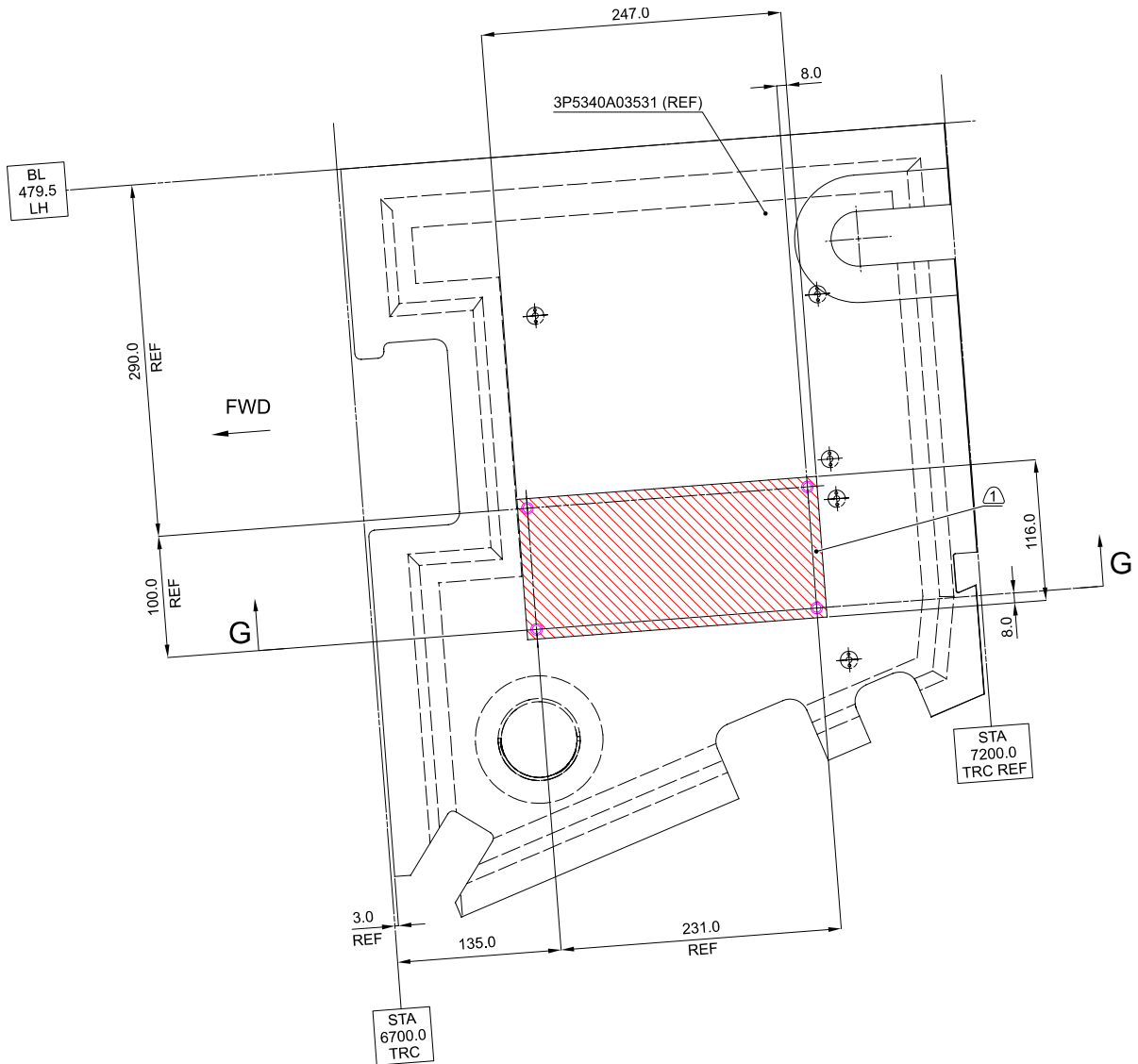
3G5316A41931, 3G5316A06731 AND FASTENERS OMITTED FOR BETTER CLARITY PURPOSE
(REFER TO FIGURE 1)

Figure 2

S.B. N°139-602 OPTIONAL

DATE: September 11, 2024

REVISION: /



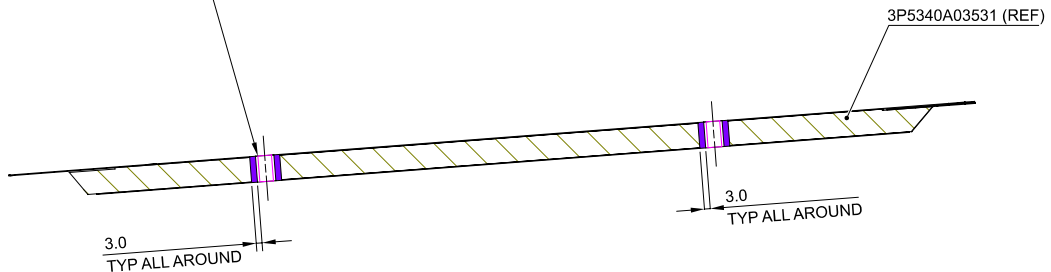
① PREPARE THE INDICATED SURFACE TO ASSURE A GOOD GROUND CONTACT

SECTION B-B

(REFER TO FIGURE 1)

PARTS OMITTED FOR BETTER CLARITY PURPOSE

DRILL:
HOLE Ø 15.53
INSTALL:
NAS43DD4-33N SPACER
APPLY:
199-05-002 TY ii CL 2 ADHESIVE
(TYP 4 PLCS)



SECTION G-G

Figure 3

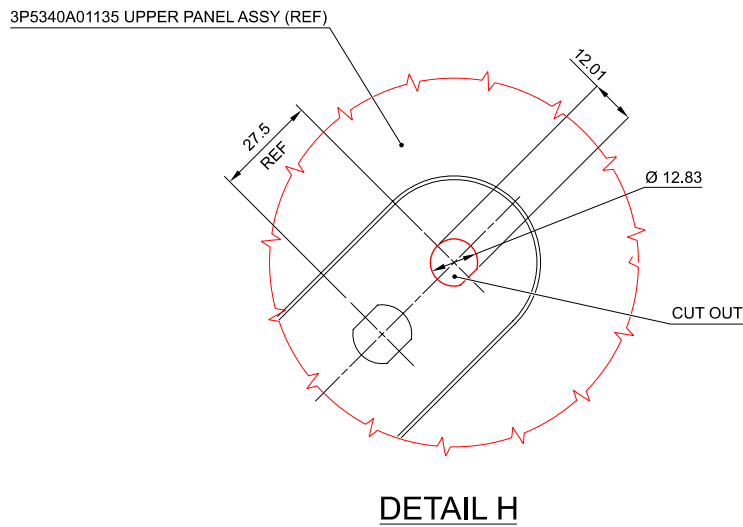
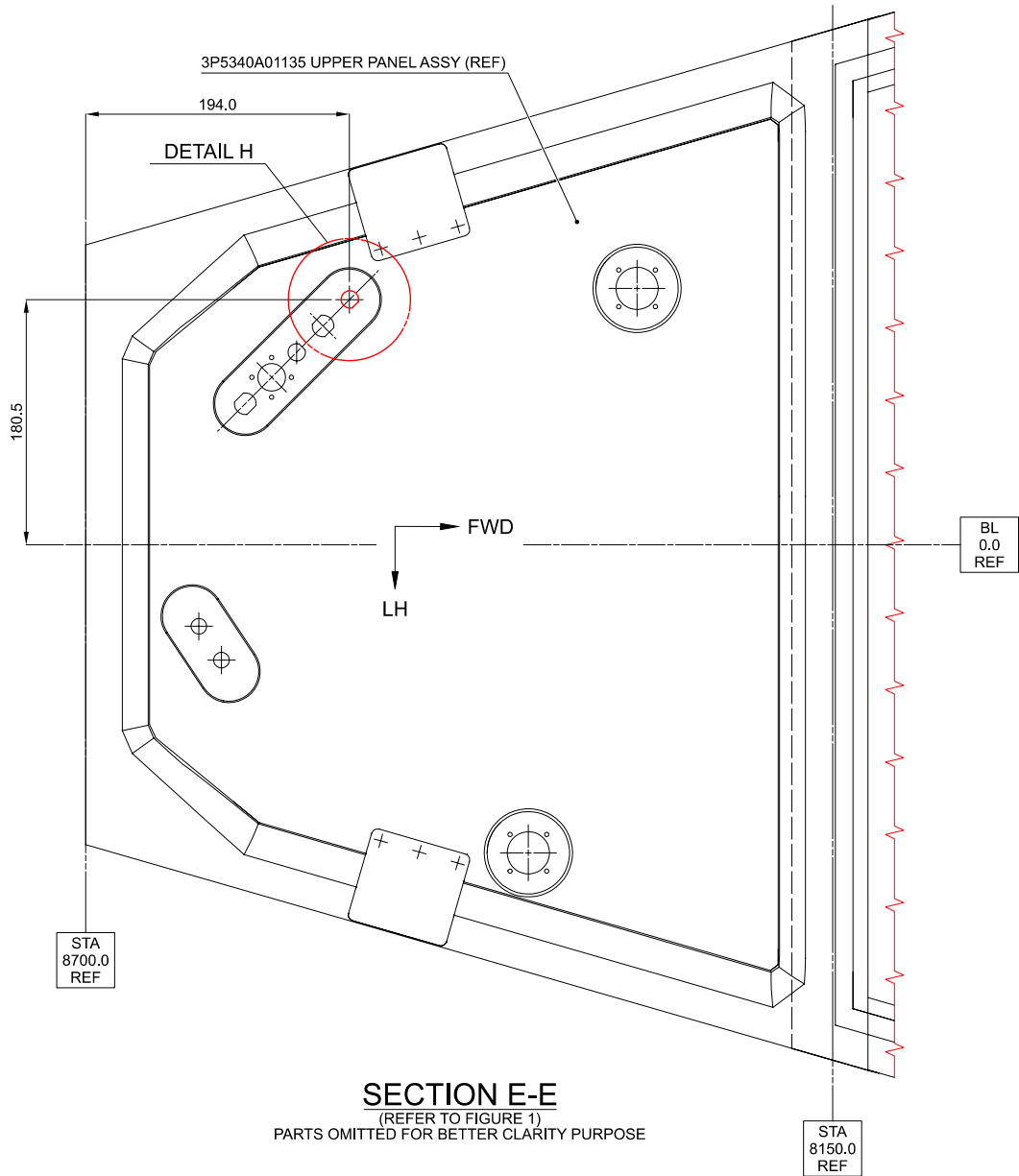
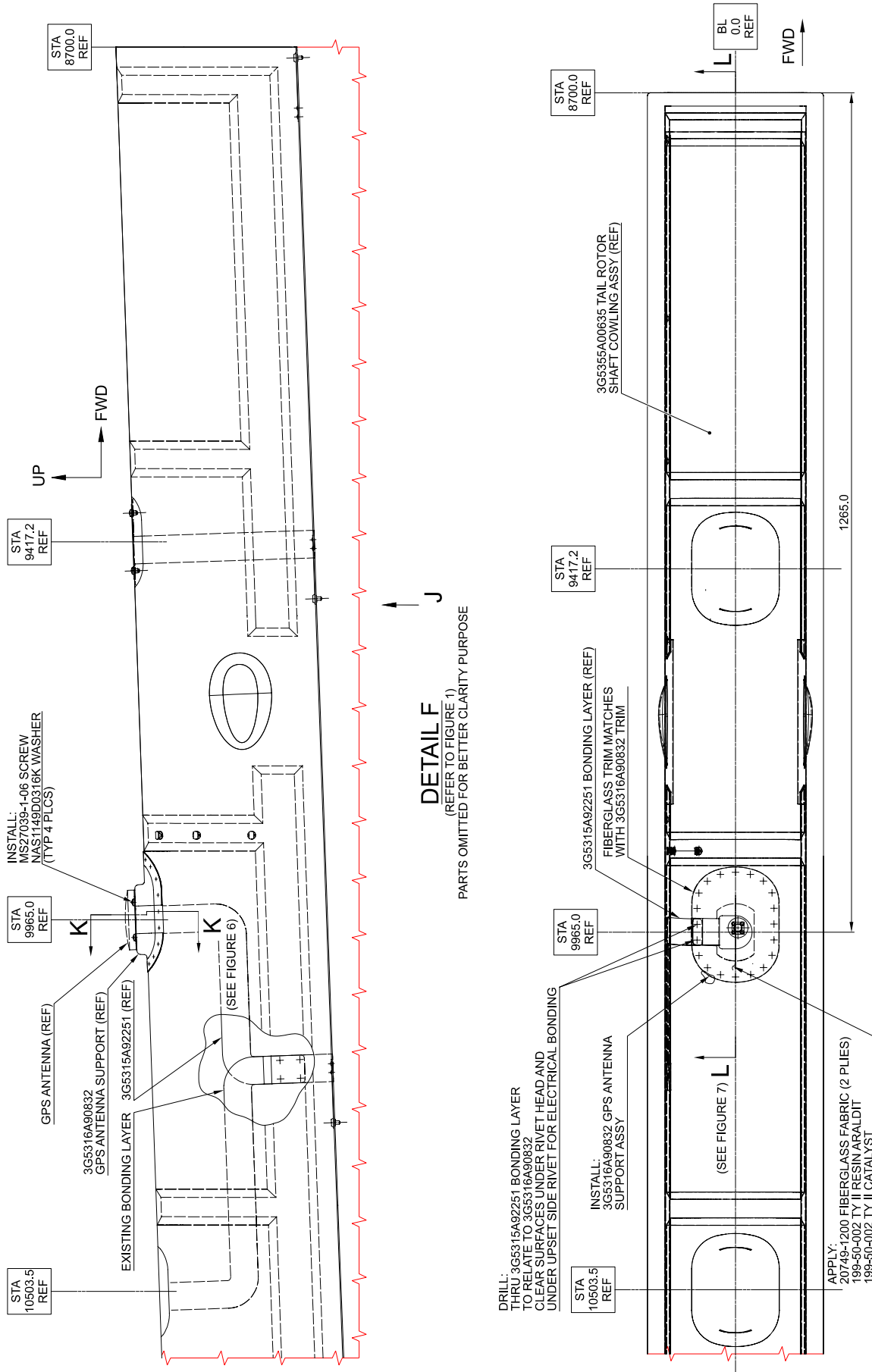


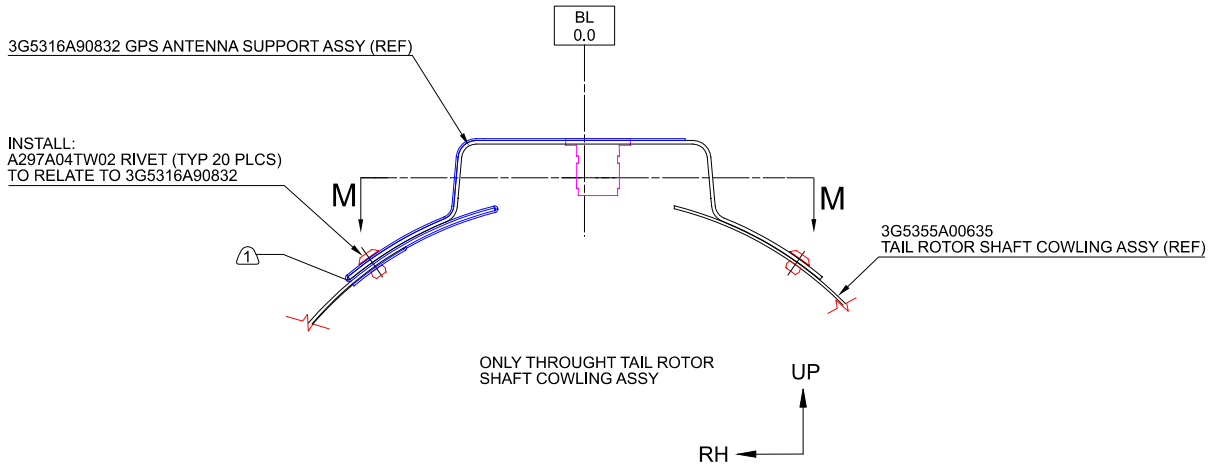
Figure 4
S.B. N°139-602 OPTIONAL

DATE: September 11, 2024
REVISION: /



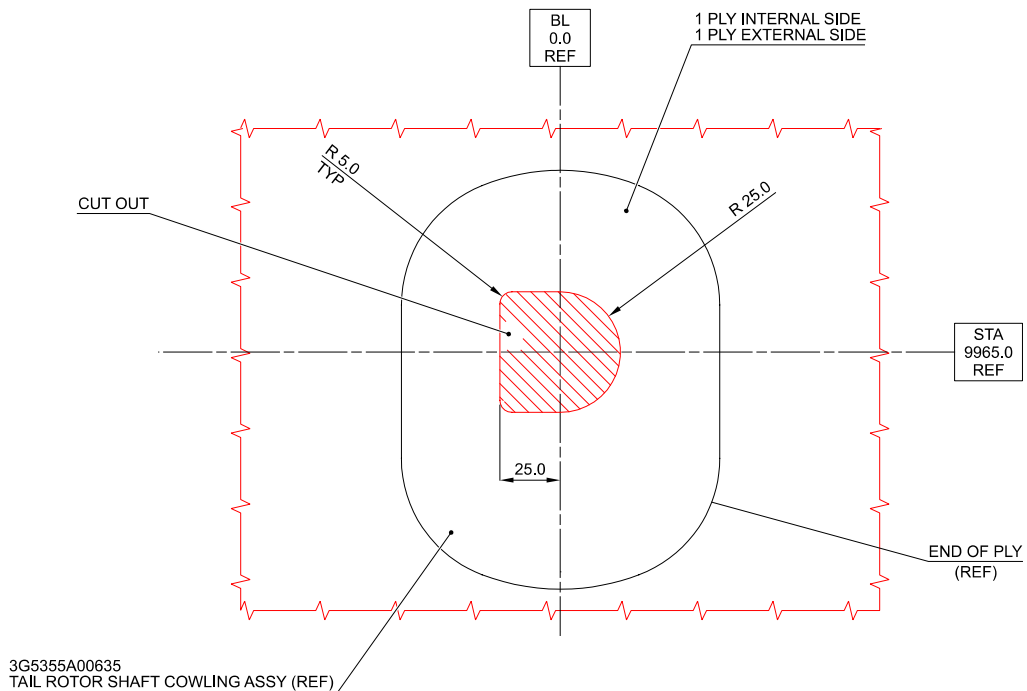
VIEW J
PARTS OMITTED FOR BETTER CLARITY PURPOSE

Figure 5



① PREPARE THE INDICATED SURFACE TO ASSURE A GOOD GROUND CONTACT

SECTION K-K
PARTS OMITTED FOR BETTER CLARITY PURPOSE
(REFER TO FIGURE 5)



SECTION M-M

Figure 6
S.B. N°139-602 OPTIONAL

DATE: September 11, 2024
REVISION: /

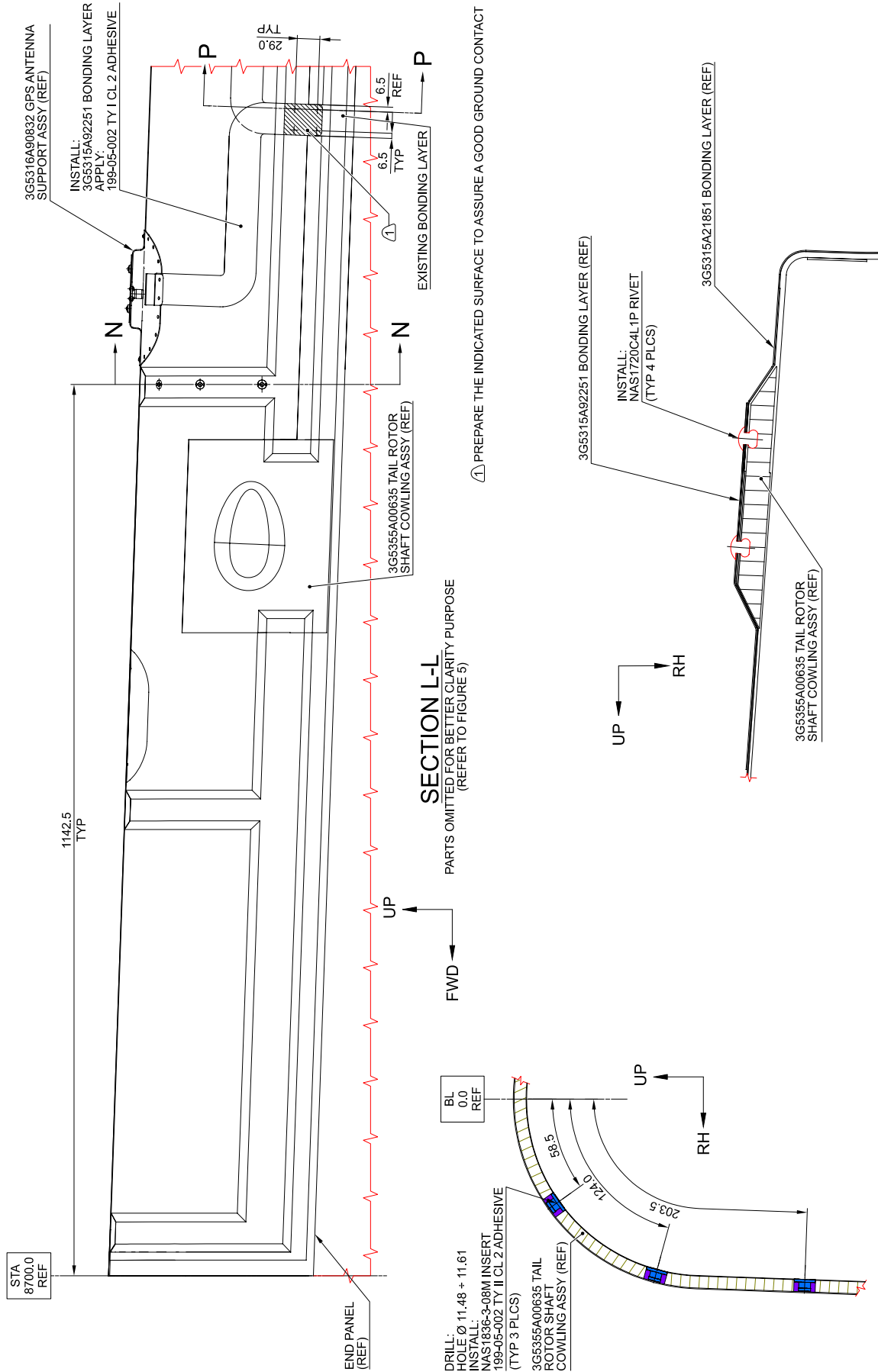


Figure 7

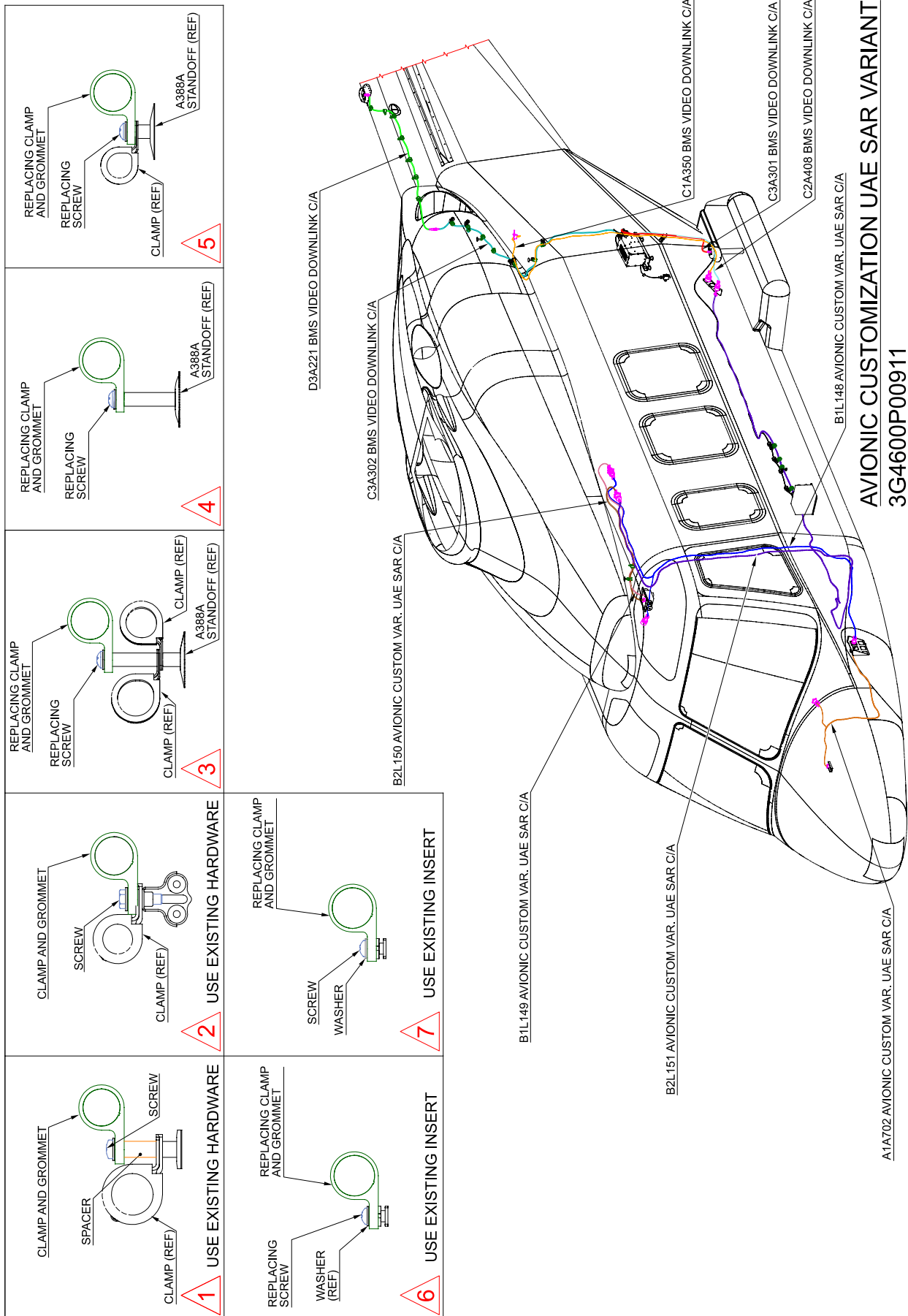
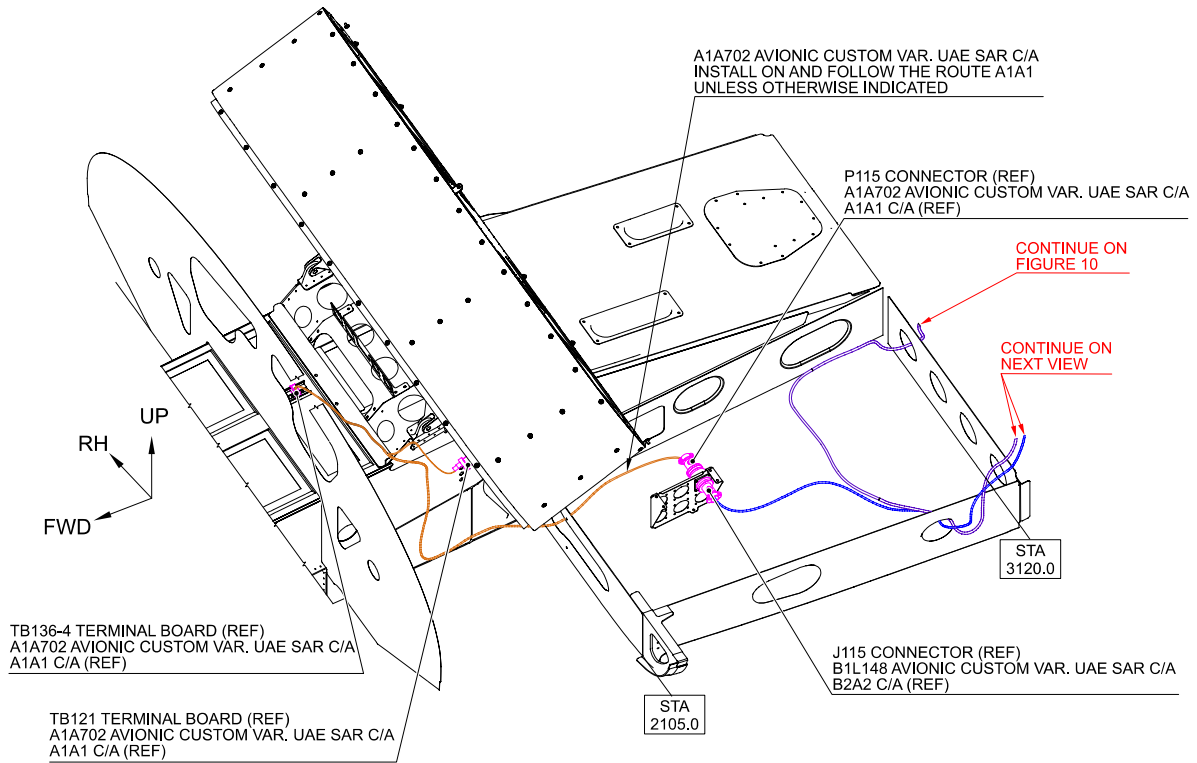


Figure 8

S.B. N°139-602 OPTIONAL

DATE: September 11, 2024

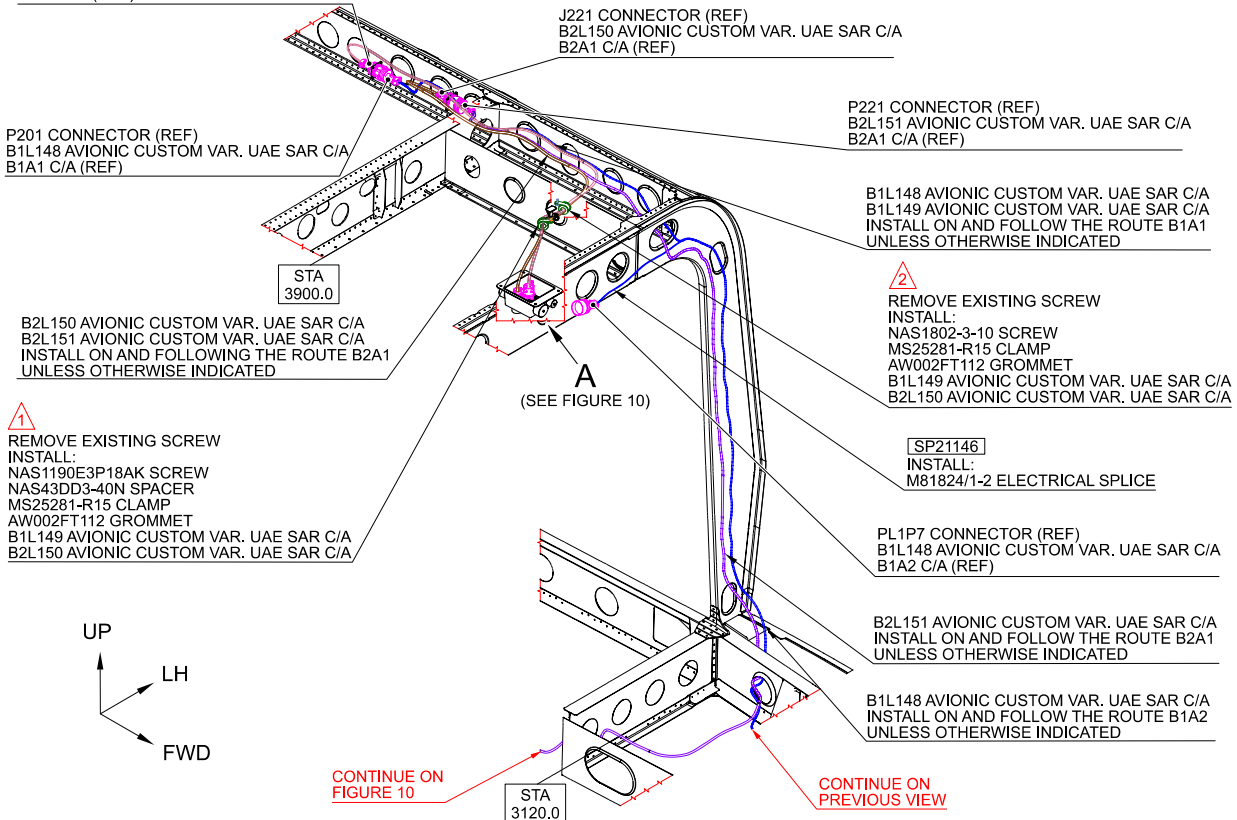
REVISION: /



VIEW LOOKING DOWN NOSE

LH SIDE
PARTS OMITTED FOR BETTER CLARITY PURPOSE

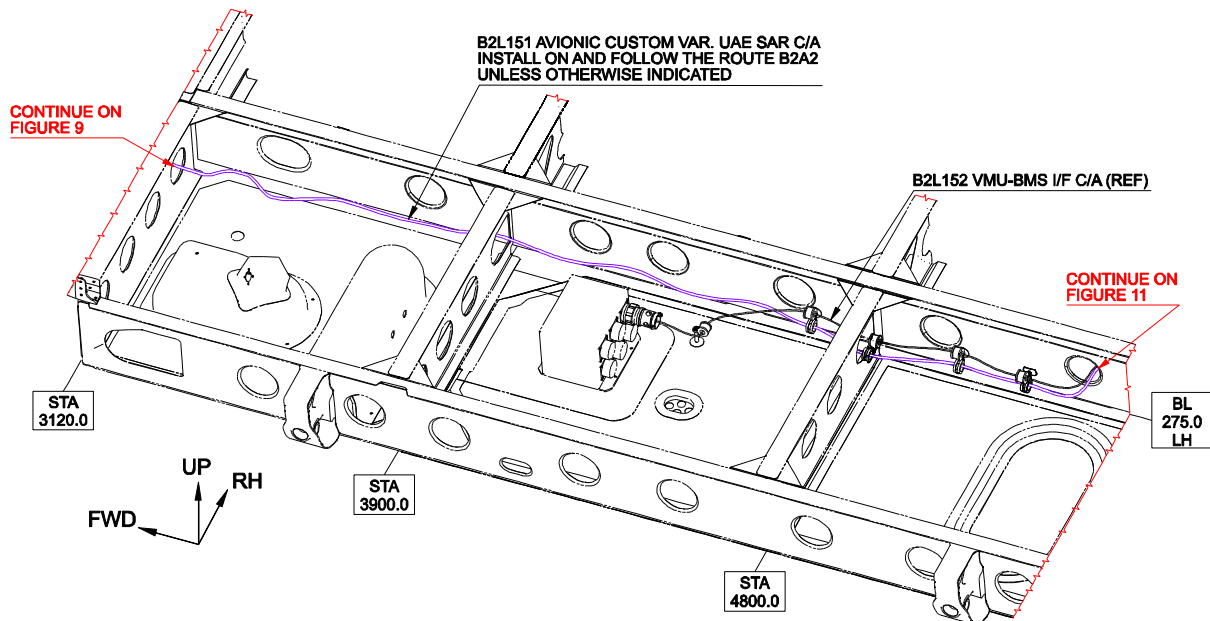
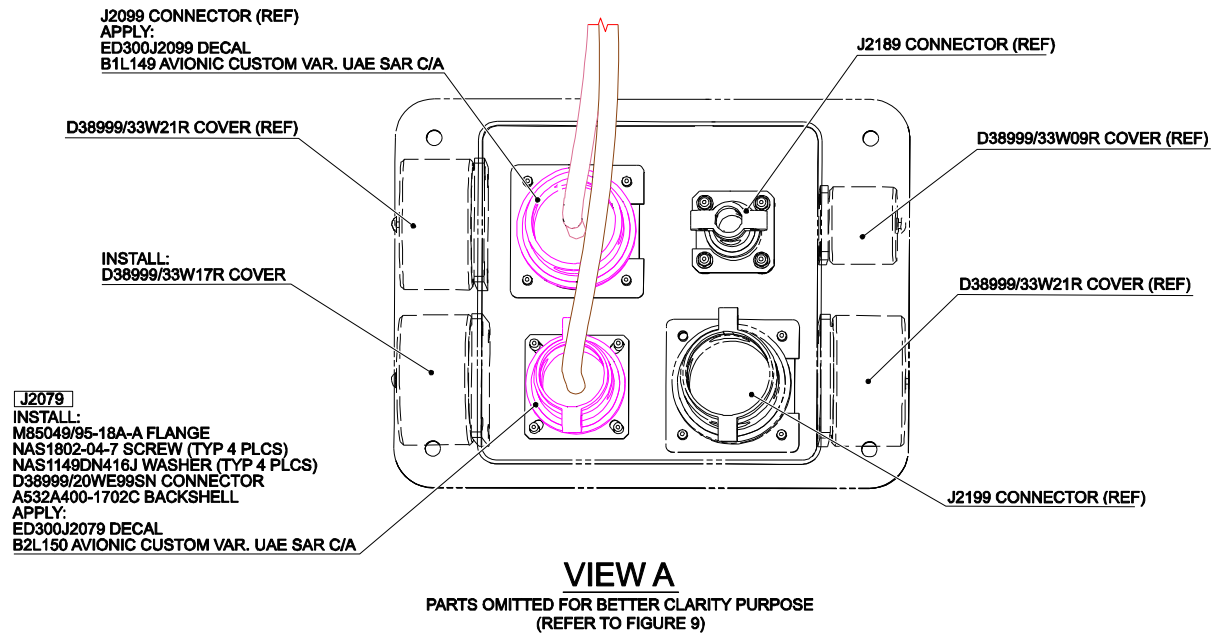
J201 CONNECTOR (REF)
B1L149 AVIONIC CUSTOM VAR. UAE SAR C/A
B1A1 C/A (REF)



VIEW LOOKING CABIN FROM STA 3120 TO STA 3900

PARTS OMITTED FOR BETTER CLARITY PURPOSE

Figure 9



VIEW LOOKING DOWN CABIN FLOOR

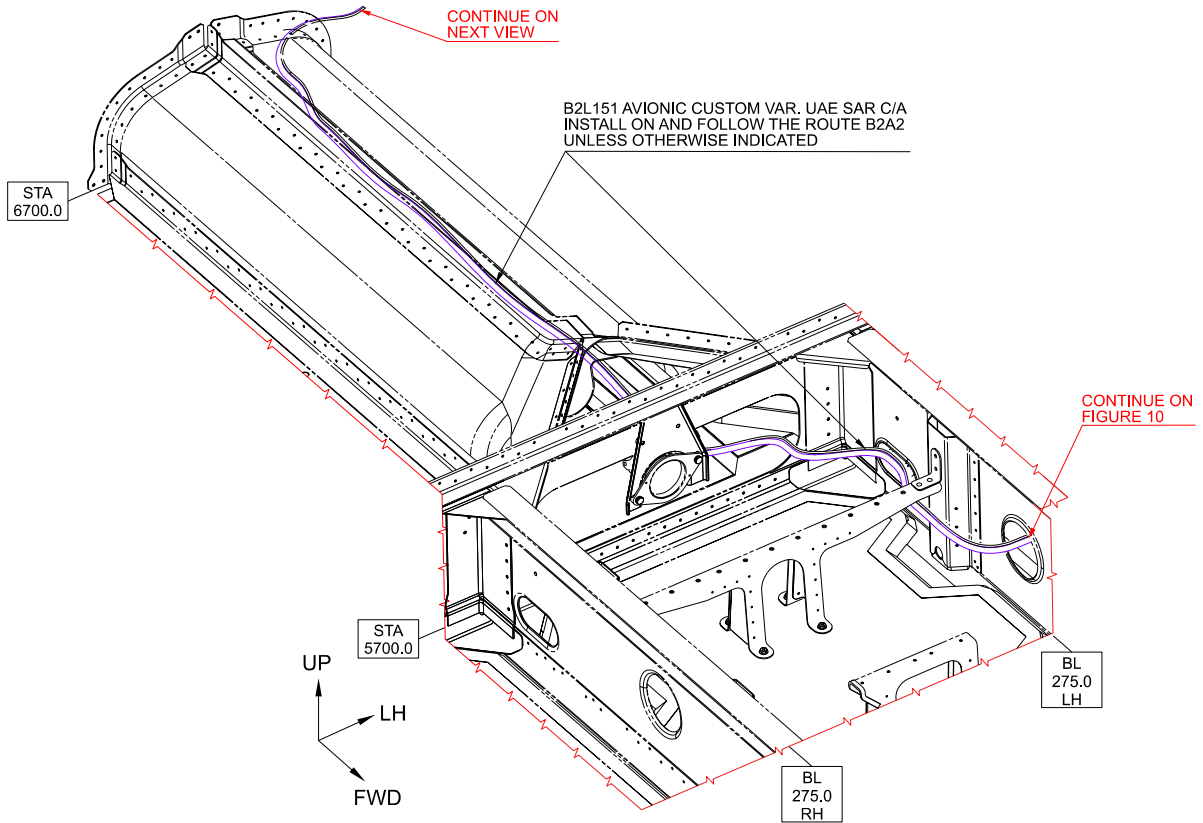
LH SIDE
PARTS OMITTED FOR BETTER CLARITY PURPOSE

Figure 10

S.B. N°139-602 OPTIONAL

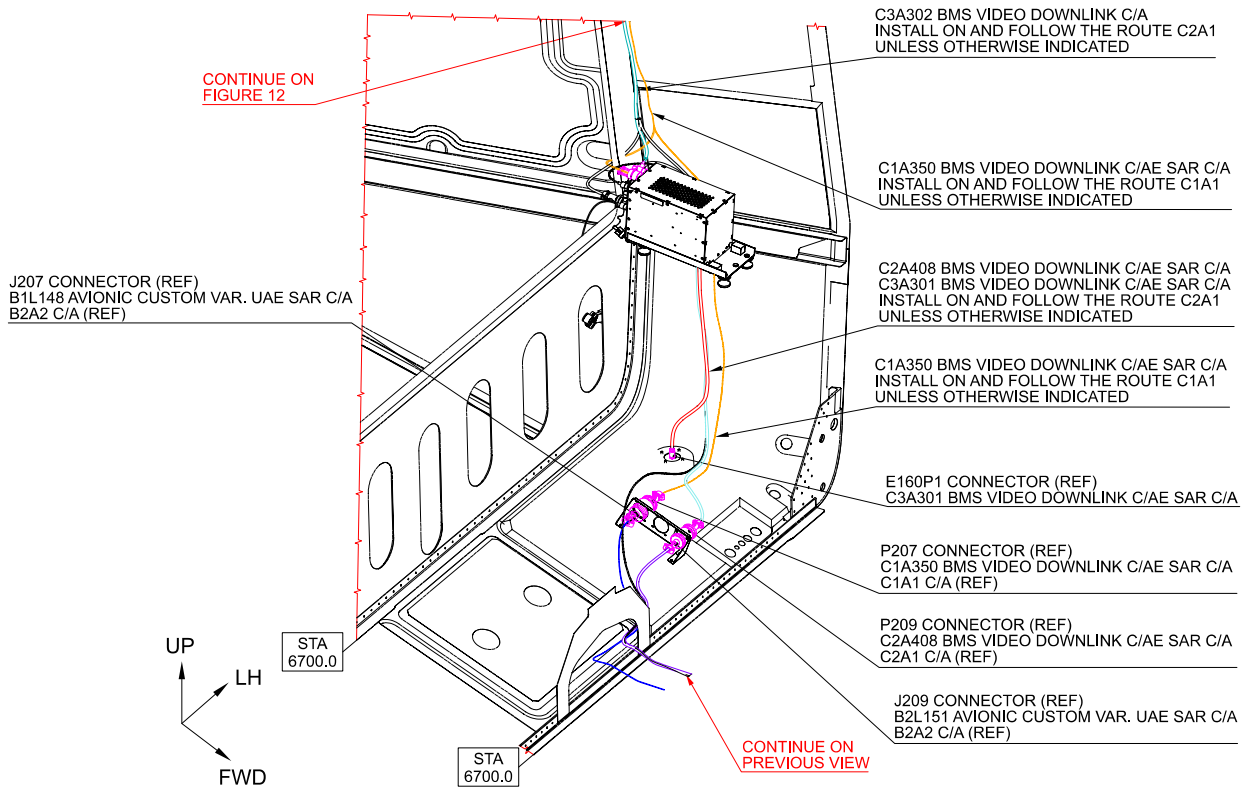
DATE: September 11, 2024

REVISION: /



VIEW LOOKING DOWN CABIN FLOOR TUNNEL AREA

PARTS OMITTED FOR BETTER CLARITY PURPOSE



VIEW LOOKING REAR FUSELAGE AT STA 7200

PARTS OMITTED FOR BETTER CLARITY PURPOSE

Figure 11

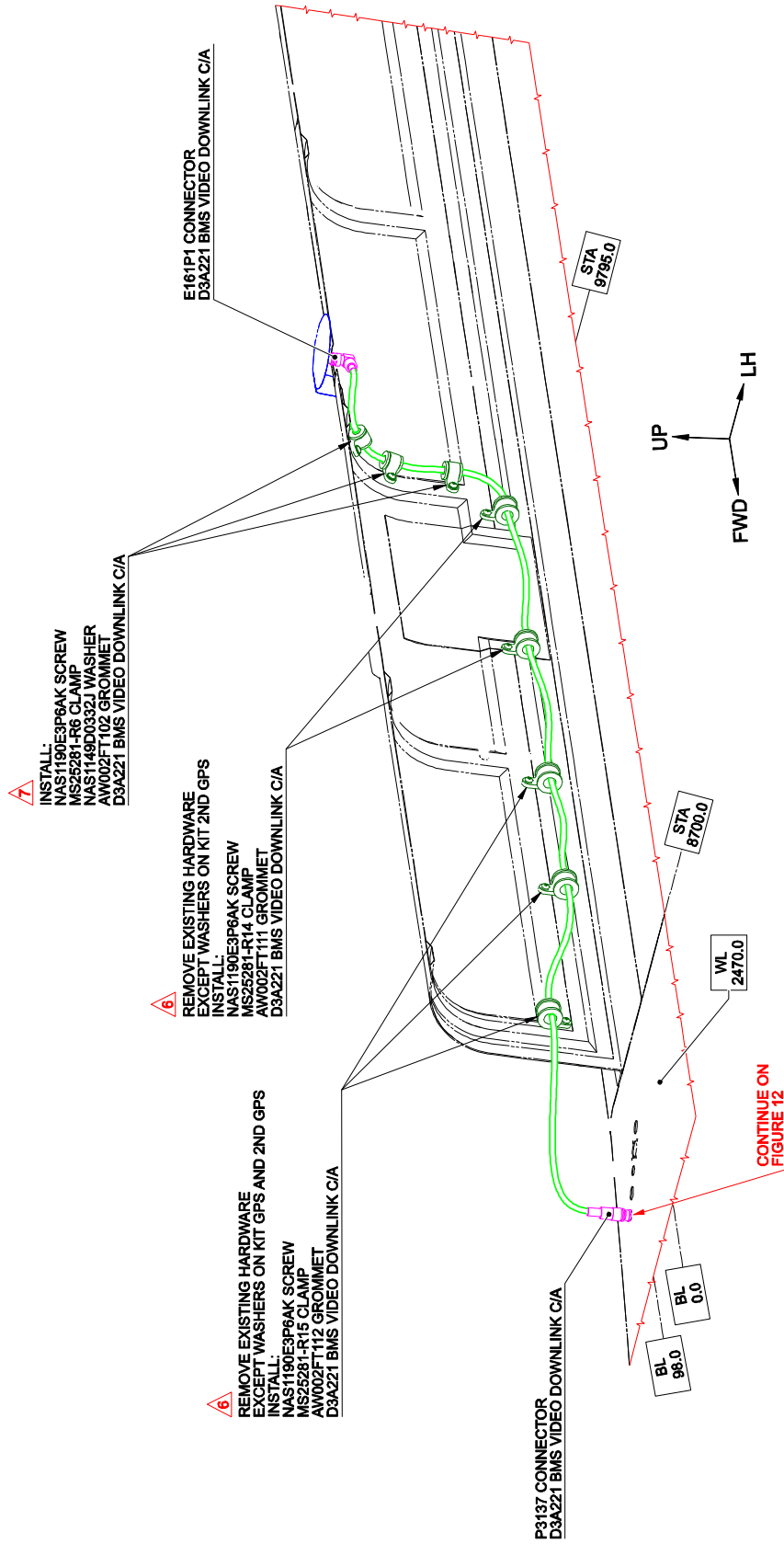
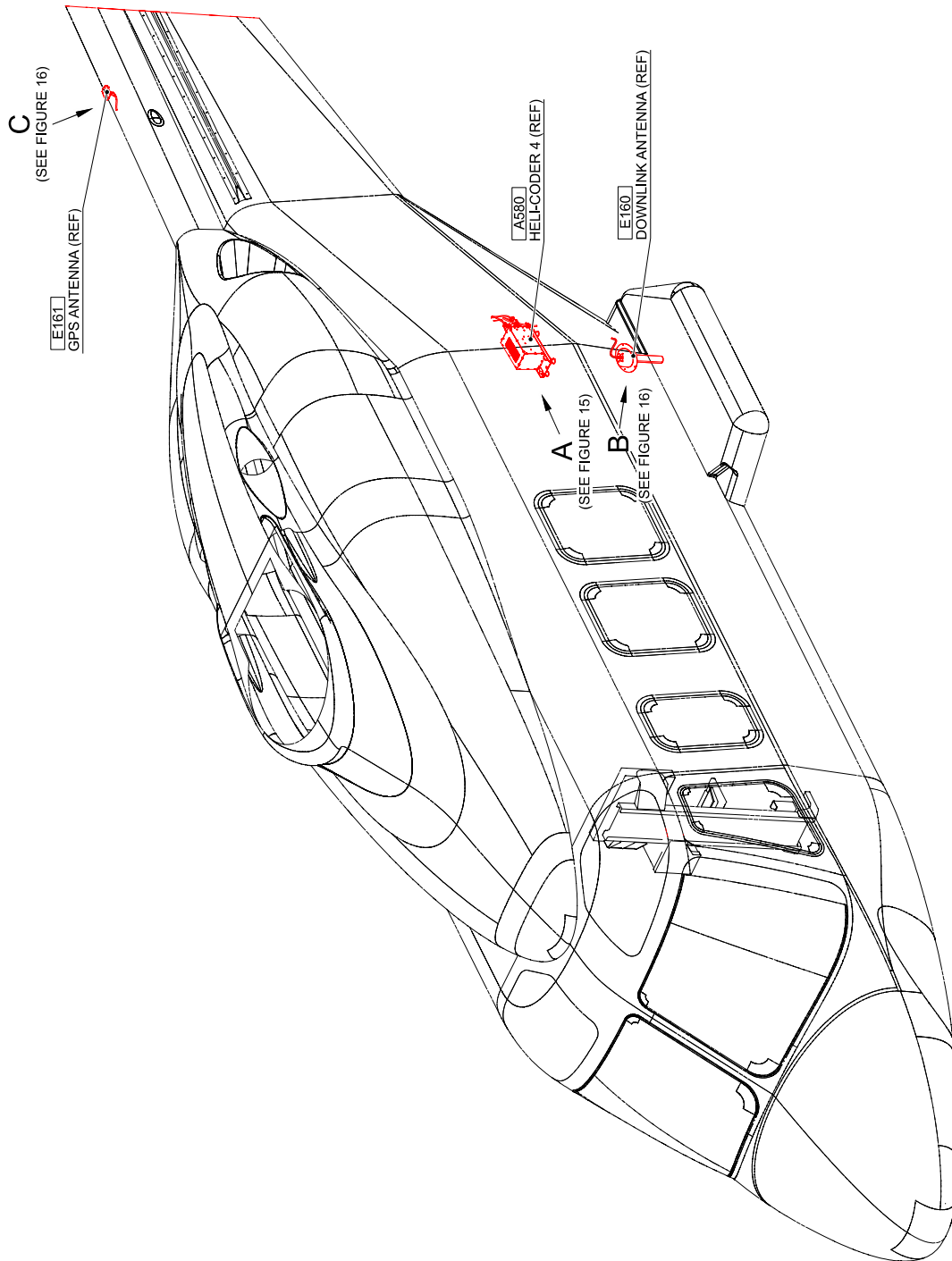


Figure 13



BMS VIDEO DOWNLINK EQUIPMENT INSTL
3G9300A04111

Figure 14
S.B. N°139-602 OPTIONAL

DATE: September 11, 2024
REVISION: /

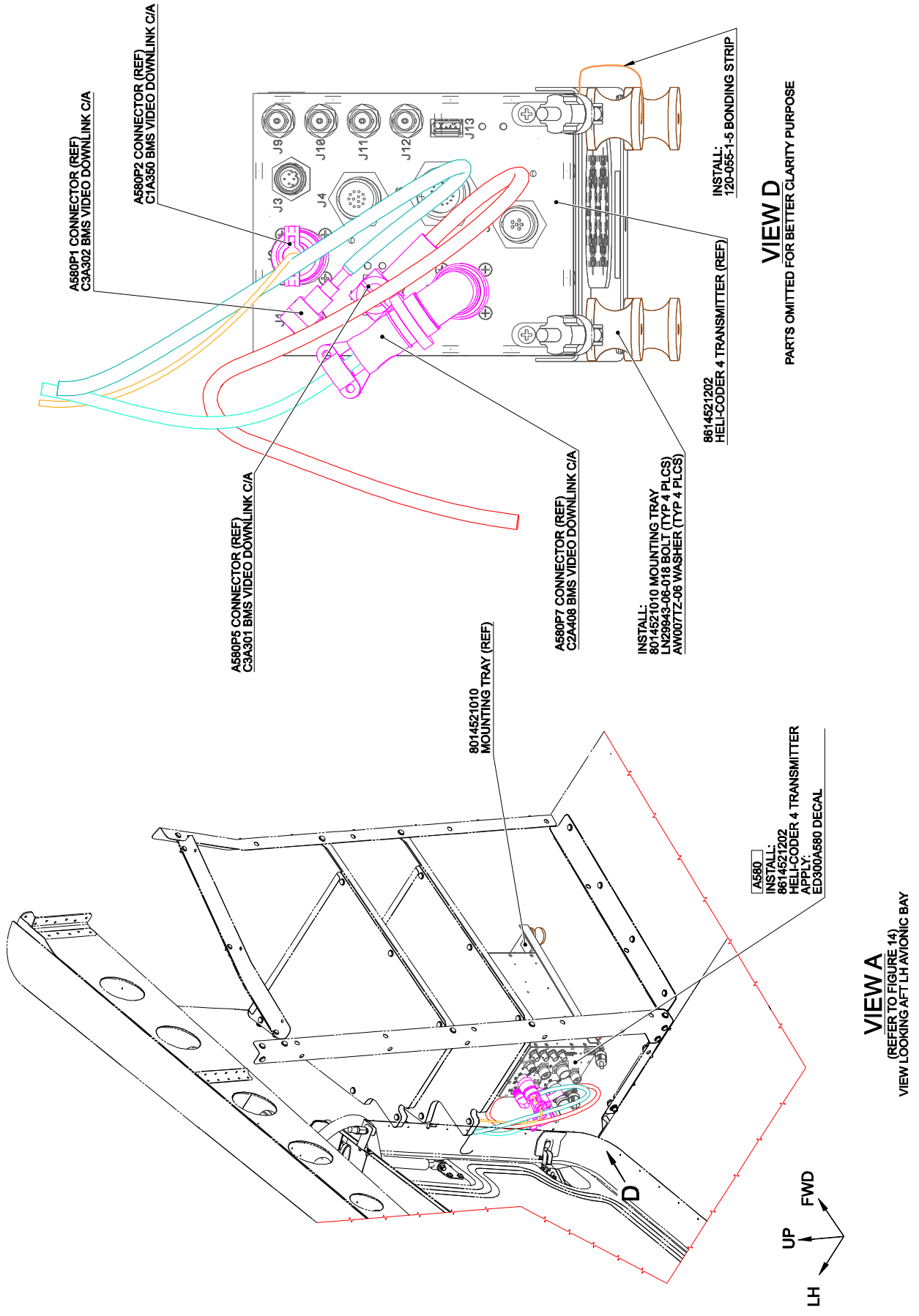


Figure 15

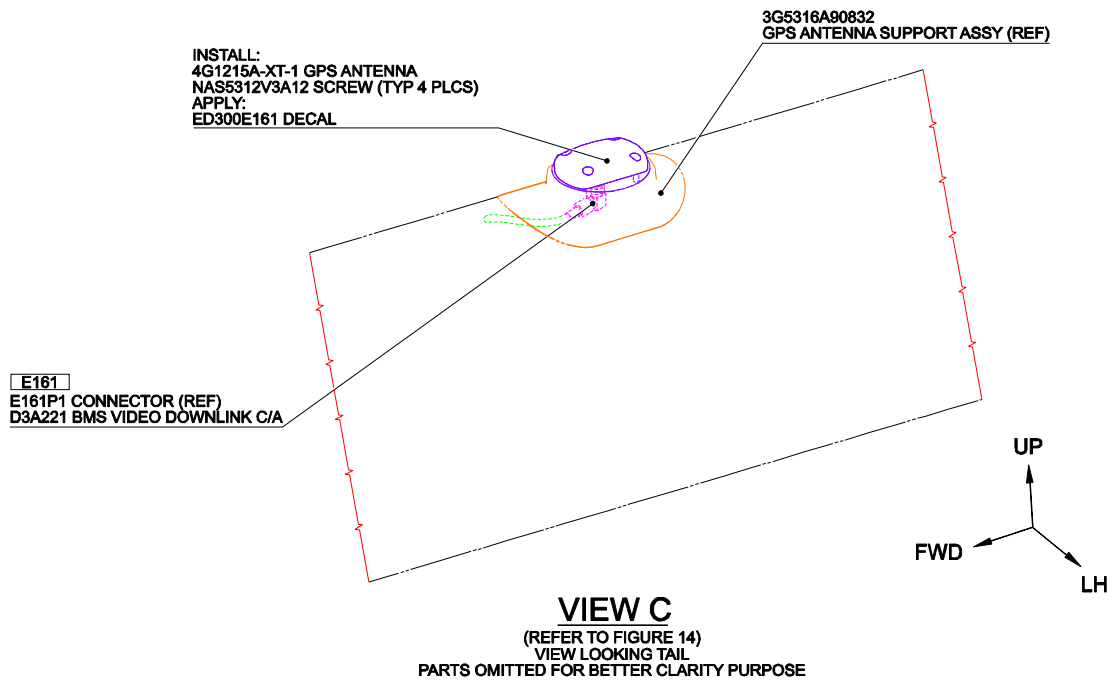
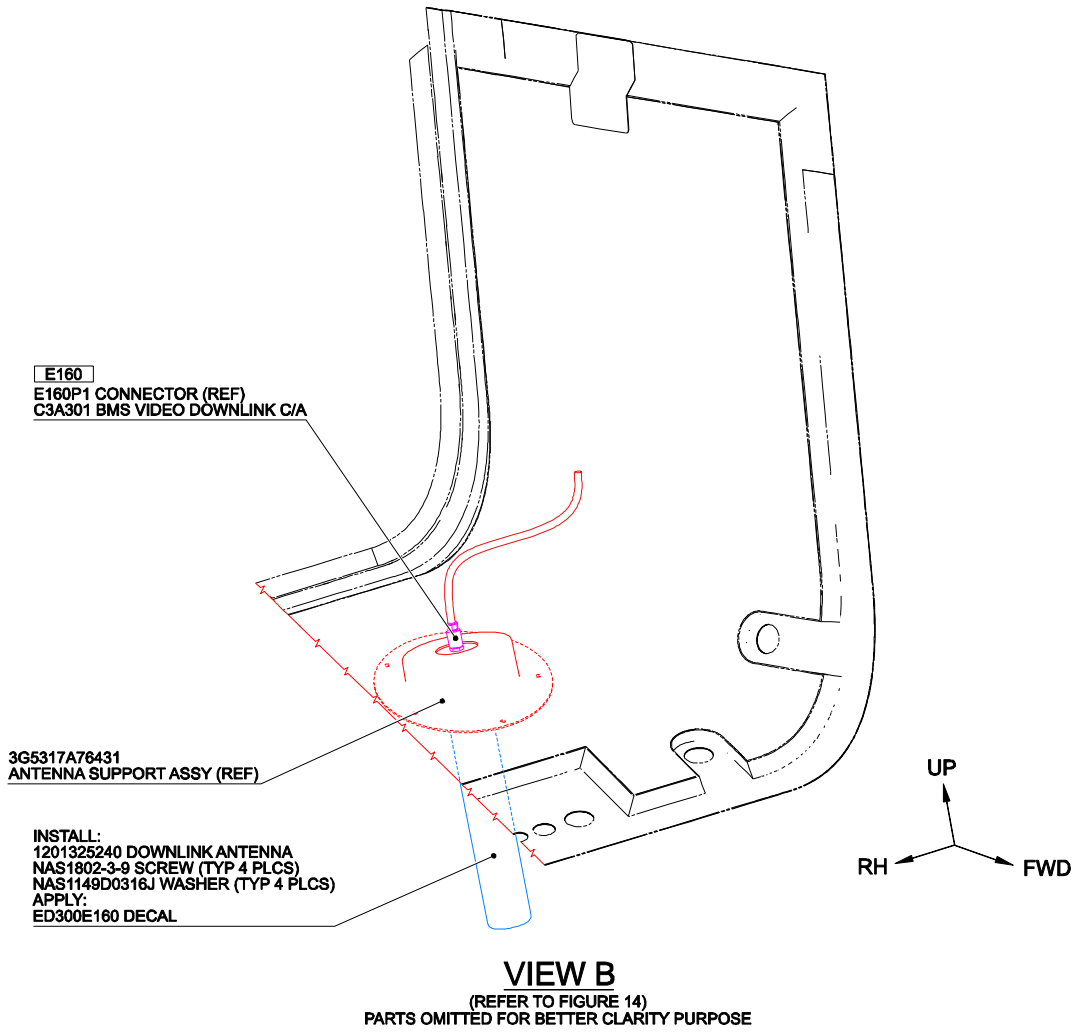
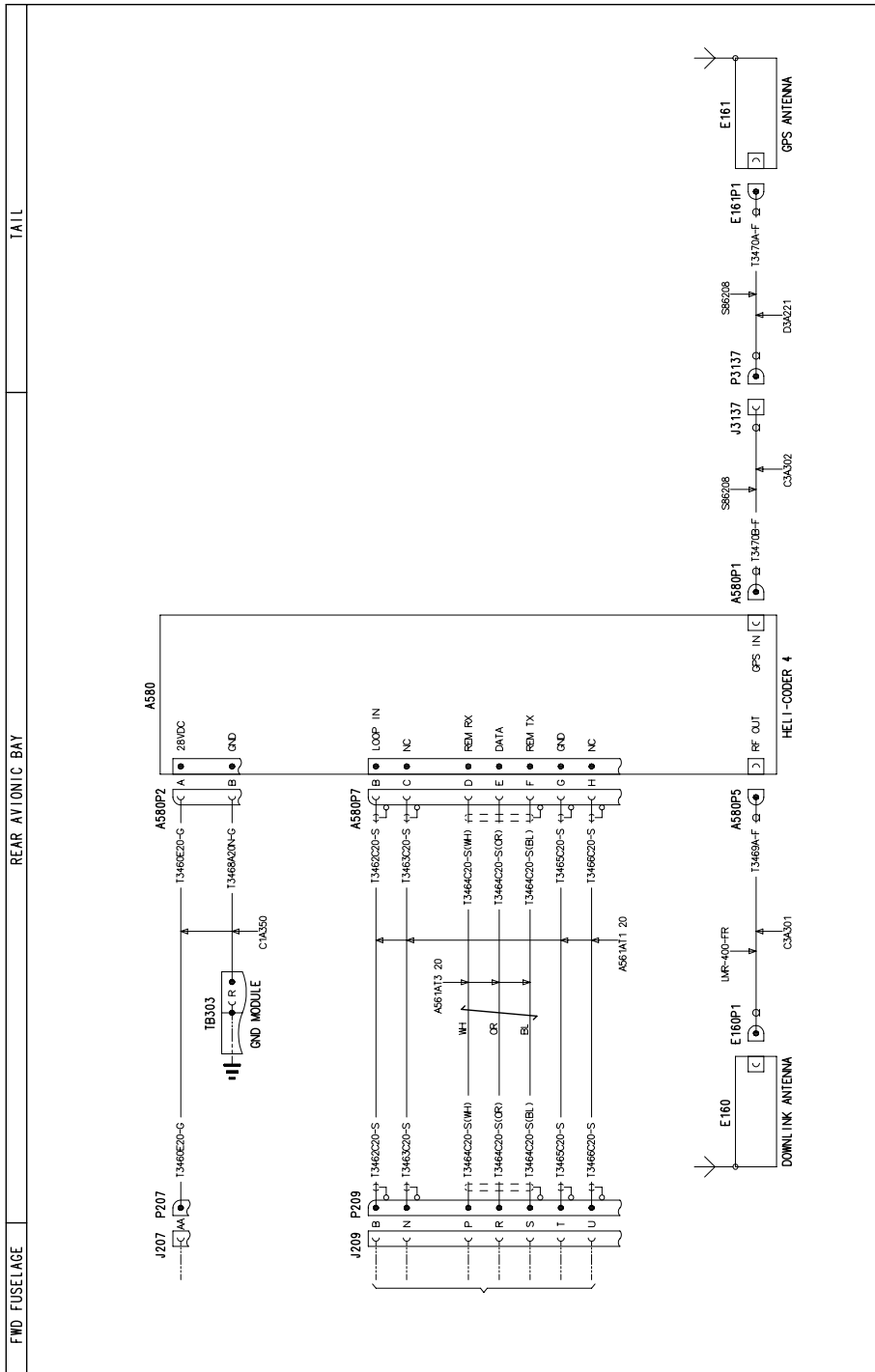


Figure 16
S.B. N°139-602 OPTIONAL

DATE: September 11, 2024
REVISION: /



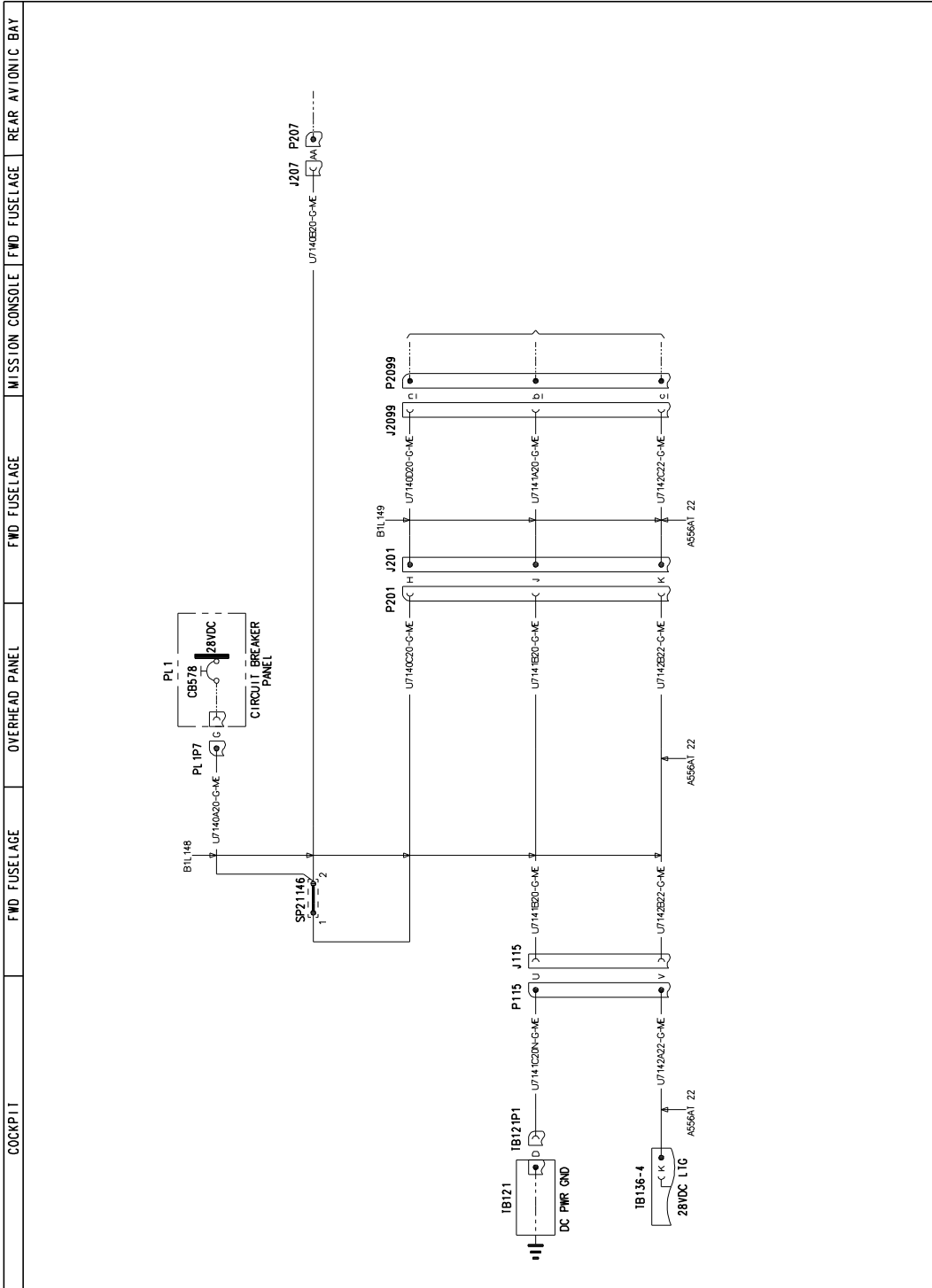
FUNCTIONAL NOTES

ALL CABLES ARE IN LOOM C2A408 UNLESS SPECIFIED.
ALL CABLES ARE OF TYPE A56A1 20 UNLESS SPECIFIED.

| CABLE ASSY | CONNECTOR | PIN | CONTACT P/N | INSULUTE TUBE P/N |
|------------|-----------|-----|---------------|-------------------|
| C1A350 | P207 | AA | M39029/56-364 | - |
| C1A350 | TB303 | R | A523A-A03 | - |

| CABLE ASSY | CONNECTOR | PIN | CONTACT P/N | INSULUTE TUBE P/N |
|------------|-----------|-----|---------------|-------------------|
| C2A408 | P209 | B | M39029/56-363 | M23053/8-004-C |
| C2A408 | P209 | N | M39029/56-363 | M23053/8-004-C |
| C2A408 | P209 | P | M39029/56-363 | M23053/8-005-C |
| C2A408 | P209 | R | M39029/56-363 | M23053/8-005-C |
| C2A408 | P209 | S | M39029/56-363 | M23053/8-005-C |
| C2A408 | P209 | T | M39029/56-363 | M23053/8-004-C |
| C2A408 | P209 | U | M39029/56-363 | M23053/8-004-C |

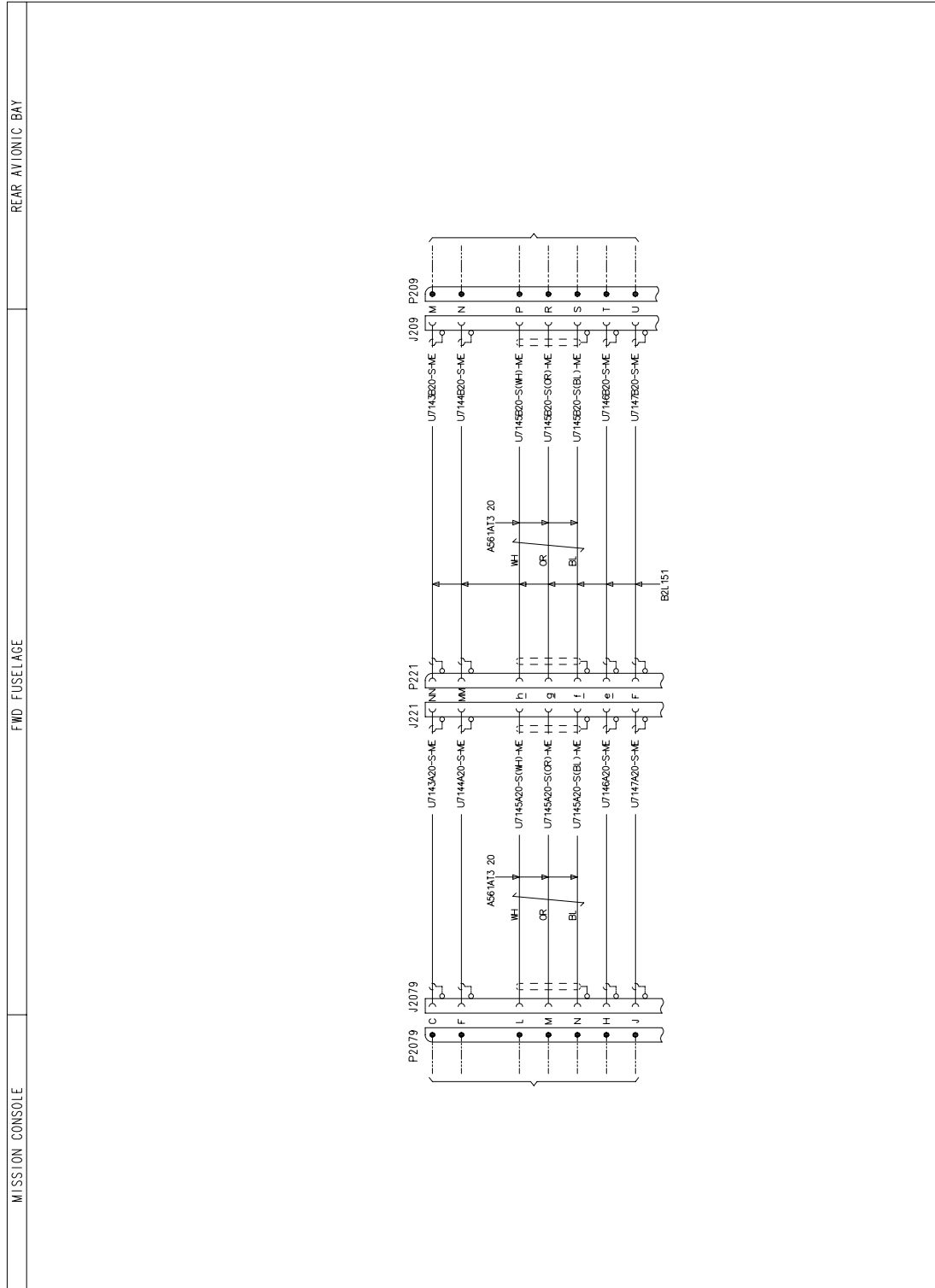
Figure 17



FUNCTIONAL NOTES

ALL CABLES ARE IN CONFORMANCE WITH THE SPECIFICATIONS UNLESS OTHERWISE SPECIFIED.
ALL CABLES ARE OF TYPE A556A1-20 UNLESS OTHERWISE SPECIFIED.

Figure 19



FUNCTIONAL NOTES

ALL CABLES ARE IN LOOM B01150 UNLESS SPECIFIED.
ALL CABLES ARE OF TYPE A361A-11-20 UNLESS SPECIFIED

Figure 20
S.B. N°139-602 OPTIONAL

DATE: September 11, 2024
REVISION: /

