
SERVICE BULLETIN

N° 139-464

DATE: February 25, 2021

REV. : /

TITLE

ATA 93 - INSTALLATION OF KIT SKYFORCE DIGITAL MAP

REVISION LOG

First Issue.

An appropriate entry should be made in the aircraft log book upon accomplishment.
If ownership of aircraft has changed, please, forward to new owner.

1. PLANNING INFORMATION

A. EFFECTIVITY

All AW139 helicopters from S/N 31700 onwards and from S/N 41501 onwards.

B. COMPLIANCE

At Customer's option.

C. CONCURRENT REQUIREMENTS

As prerequisite, the Video Module Interface kit P/N 4G9310F00211 must be already installed on the helicopter.

D. REASON

This Service Bulletin is issued to provide the necessary instructions to perform the installation of the kit Digital MAP Skyforce P/N 3G9310F00112.

E. DESCRIPTION

Leonardo Helicopter has developed this Service Bulletin to provide all necessary instructions to perform the installation of Skyforce structural and electrical provision (Part I), and the equipment installation P/N 4G9310A00711 (Part II).

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 LHD 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 the following Maintenance-Man-Hours (MMH) are deemed necessary:

Part I: approximately two-hundreds and forty (240) MMH.

Part II: approximately thirty-two (32) MMH.

Maintenance-Man-Hours are based on hands-on time and can change with personnel and facilities available.

H. WEIGHT AND BALANCE

PART I

WEIGHT (Kg)	ARM (mm)	MOMENT (Kgmm)
		5.10
LONGITUDINAL BALANCE	5499	28044.9
LATERAL BALANCE	-433	-2208.3

PART II

WEIGHT (Kg)	ARM (mm)	MOMENT (Kgmm)
		5.68
LONGITUDINAL BALANCE	6640	37715.2
LATERAL BALANCE	-357	-2027.76

I. REFERENCES

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.	I, II
DM02 39-A-24-91-04-00A-920A-K	Integrally-lit panel installation	II
DM03 39-C-34-57-00-00A-320A-K	Skyforce DMAP system operational check	II

2) ACRONYMS & ABBREVIATIONS

AMMC	Aircraft & Mission Management Computer
CB	Circuit Breaker
CDS	Cockpit Display System
CTRL	Control
VFR	Visual Flight Rules

3) ANNEX

N.A.

J. PUBLICATIONS AFFECTED

N.A.

K. SOFTWARE ACCOMPLISHMENT SUMMARY

Software to be updated:

Primus Epic Option File.

Option File P/N is depending upon helicopter configuration that can be different from the one reported in relevant helicopter “Commissa di Vendita”. Customer must contact Product Support Engineering (engineering.support.lhd@leonardocompany.com) to request the correct Option File at least three months in advance from the scheduled embodiment of this Service Bulletin.

2. MATERIAL INFORMATION

A. REQUIRED MATERIALS

NOTE

A new auxiliary CB panel is required to apply this Service Bulletin. Customer must contact AW139 Customer Support Engineering (engineering.support.lhd@leonardocompany.com) to request the new CB panel at least three months in advance from the scheduled application of this Service Bulletin.

1) PARTS

PART I

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
1	3G5310A42211		DIGITAL MAP STRUCTURAL PROVISION	REF	.		
2	3G5315A20532		Processor support assy	1	..		139-464L1
3	3G5315A21735		Controller support assy	1	..	(1)	-
4	A254AP10C1		Plug	8	..		139-464L1
5	A254AS10D08		Sleeve	8	..		139-464L1
6	MS24694-C58		Screw	8	..		139-464L1
7	MS21069L04K		Nutplate	4	..		139-464L1
8	NAS1097AD3-4		Rivet	0.1kg	..		139-464L1
9	NAS1832C3-4		Insert	4	..		139-464L1
10	MS27039-1-04		Screw	4	..		139-464L1
11	NAS1149D0332J		Washer	4	..		139-464L1
12	3G5315A41731		Antenna support assy	1	..	(2)(3)	-
13	NAS1720H4L2A		Rivet	20	..		139-464L1
14	999-0065-05-36		Washer	20	..		139-464L1
15	MS21069L3		Nutplate	4	..		139-464L1
16	NAS1097U3-4		Rivet	8	..		139-464L1
17	3G5315A42051		Cover	1	..		139-464L1
18	MS27039-1-07		Screw	4	..		139-464L1
19	NAS1149D0316K		Washer	4	..		139-464L1
20	4G9310A00214		DIGITAL MAP SKYFORCE ELECTRICAL PROVISION	REF	.		
21	3G9A01A26222	4G9310A00214A1R	DMAP C/A (A1A262)	1	..	(4)	139-464L1
22	3G9A02A24722		DMAP C/A (A2A247)	1	..	(4)	139-464L1
23	3G9A02B24822		DMAP C/A (A2B248)	1	..	(4)	139-464L1
24	3G9B01A29422		DMAP C/A (B1A294)	1	..		139-464L1
25	3G9B02A22922		DMAP C/A (B2A229)	1	..		139-464L1
26	3G9B02B38122		DMAP C/A (B2B381)	1	..		139-464L1
27	3G9C01A22122		DMAP C/A (C1A221)	1	..	(5)	139-464L1
28	3G9C02A21522	4G9310A00214A2R	DMAP C/A (C2A215)	1	..	(5)	139-464L1
29	3G9C02A21622		DMAP C/A (C2A216)	1	..	(5)	139-464L1
30	3G9C03B21222		DMAP C/A (C3B212)	1	..		139-464L1
31	3G9D03B20322		DMAP C/A (D3B203)	1	..		139-464L1

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
32	A388A3E08C		Electrical support	2	..		139-464L1
33	A388A3E20C		Electrical support	6	..		139-464L1
34	A630A31	AW001CL000A-X3	Electrical support	6	..		139-464L1
35	A630A3BT	AW001TL3A08T	Electrical support	1	..		139-464L1
36	A631A01A		Spacer	6	..		139-464L1
37	A631A02A		Spacer	4	..		139-464L1
38	AW001CL002C-X2		Electrical support	1	..		139-464L1
39	MS21919WDG2	AS21919WDG02	Clamp	7	..		139-464L1
40	MS21919WDG7	AS21919WDG07	Clamp	3	..		139-464L1
41	MS21919WDG8	AS21919WDG08	Clamp	2	..		139-464L1
42	AW001TL3A08T		Electrical support	1	..		139-464L1
43	AW002FT102		Electrical support	15	..		139-464L1
44	DCC-01		Cap	3	..		139-464L1
45	DCC-02		Cap	1	..		139-464L1
46	DCC-04		Cap	1	..		139-464L1
47	ED300GS1A		Decal	2	..		139-464L1
48	ED300GS1B		Decal	2	..		139-464L1
49	ED300GS1C		Decal	1	..		139-464L1
50	ED300J357		Decal	1	..		139-464L1
51	EN2139-03010		Washer	5	..		139-464L1
52	EN3759-030010R	EN3759-030010A	Screw	5	..		139-464L1
53	MS35206-243		Screw	16	..		139-464L1
54	MS90376-14Y		Cap	1	..		139-464L1
55	MS90376-8R		Cap	3	..		139-464L1
56	NAS1149D0332J		Washer	12	..		139-464L1
57	NAS1149DN832J		Washer	16	..		139-464L1
58	NAS1190E3P18AK		Screw	1	..		139-464L1
59	NAS1190E3P22AK		Screw	2	..		139-464L1
60	NAS1190E3P4AK		Screw	2	..		139-464L1
61	NAS1190E3P5AK		Screw	2	..		139-464L1
62	NAS1802-3-10		Screw	1	..		139-464L1
63	NAS1802-3-12		Screw	1	..		139-464L1
64	NAS1802-3-24		Screw	1	..		139-464L1
65	NAS1802-3-4		Screw	5	..		139-464L1
66	NAS43DD3-28N		Spacer	1	..		139-464L1
67	NAS43DD3-48	NAS43DD3-48N	Spacer	1	..		139-464L1
68	NAS43DD3-64N		Spacer	3	..		139-464L1
69	NAS43DD3-90N		Spacer	1	..		139-464L1
70	OB2109-002		Rack	1	..		139-464L1
71	MS3320-10		Circuit breaker	1			139-464L1
72	MS3320-3		Circuit breaker	1			139-464L1
73	ED300CB164		Decal	1			139-464L1
74	ED300CB175		Decal	1			139-464L1
75	3G2490LXXXXX		Panel integrally lighted aux breaker	1		(6)	-
76	3G9310P01211		DMAP SKYFORCE AND GPS VARIANT	REF	.		-
77	3G5310A52011		GPS SIGNAL STRUCTURAL PROVISION	REF	..		-
78	NAS1836-08-13		Insert	2	...	(7)	139-464L2
79	3G9C03C23502		DMAP 2 nd GPS variant C/A (C3C235)	1	..	(7)	139-464L2
80	3G9C03C23601	3G9C03C23602	DMAP 2 nd GPS variant C/A (C3C236)	1	..	(7)	139-464L2
81	3G9C03C23702		DMAP 2 nd GPS variant C/A (C3C237)	1	..	(7)	139-464L2
82	7-397-3-3		Splitter	1	..	(7)	139-464L2

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
83	999-7000-07-105		Terminal	1	..	(7)	139-464L2
84	A388A3E06C		Kolek gwintowany	1	..	(7)	139-464L2
85	A388A3E24C		Standoff	1	..	(7)	139-464L2
86	A631A01A		Spacers for cable bundles	6	..	(7)	139-464L2
87	AW001CB05H		Clamp	7	..	(7)	139-464L2
88	AW001CB08H		Clamp	1	..	(7)	139-464L2
89	AW001CL001-N6		Support	2	..	(7)	139-464L2
90	AW002FT102		Grommet	2	..	(7)	139-464L2
91	AW002FT401		Grommet	6	..	(7)	139-464L2
92	ED300CP23		Decal	1	..	(7)	139-464L2
93	ED300J376B		Decal	2	..	(7)	139-464L2
94	NAS1149D0332J		Washer	4	..	(7)	139-464L2
95	NAS1149DN832J		Washer	2	..	(7)	139-464L2
96	NAS1190E3P22AK		Washer	1	..	(7)	139-464L2
97	NAS1190E3P26AK		Screw	2	..	(7)	139-464L2
98	NAS1190E3P5AK		Screw	2	..	(7)	139-464L2
99	NAS1190E3P6AK		Screw	1	..	(7)	139-464L2
100	NAS1802-08-5		Screw	2	..	(7)	139-464L2
101	NAS1802-3-28		Screw	1	..	(7)	139-464L2
102	NAS43DD3-52N		Spacer	1	..	(7)	139-464L2
103	NAS43DD3-70N		Spacer	2	..	(7)	139-464L2
104	NAS43DD3-75N		Spacer	1	..	(7)	139-464L2
105	NAS43DD3-89N		Spacer	1	..	(7)	139-464L2
106	A523A-A02		Electrical contact	1	.		139-464L1
107	A523A-A05		Electrical contact	3	.		139-464L1
108	A523A-A07		Electrical contact	1	.		139-464L1
109	M39029/56-348		Electrical contact	30	.		139-464L1
110	M39029/56-351		Electrical contact	30	.		139-464L1
111	M39029/56-353		Electrical contact	4	.		139-464L1
112	M39029/57-354		Electrical contact	19	.		139-464L1
113	M39029/58-360		Electrical contact	26	.		139-464L1
114	M39029/58-363		Electrical contact	32	.		139-464L1
115	M39029/58-364		Electrical contact	2	.		139-464L1
116	M39029/63-368		Electrical contact	2	.		139-464L1
117	M81824/1-2		Splice	1	.		139-464L1
118	MS25036-149		Terminal lug	2	.		139-464L1
119	A556A-T16		Wire	1 m	.		139-464L1
120	A556A-T20		Wire	1 m	.		139-464L1

PART II

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
121	4G9310A00711		DIGITAL MAP SKYFORCE EQUIPMENT INSTALLATION	REF	.		-
122	3G9310P02311		DIGITAL MAP SKYFORCE ELECT VARIANT	REF	..		-
123	3G9310A17831		Switch DMAP panel assy	1	...		139-464L3
124	3G9C02A41401	3G9310P02311A1R	DMAP reader Skyforce (C2A414)	1	...		139-464L3
125	3G9C02A41501		DMAP reader Skyforce (C2A415)	1	...		139-464L3
126	AW001CL008-CM		Support	1	...		139-464L3
127	071-01553-0200	S67-1575-132	Gps antenna	1	..	(2)	-
128	3G9310V00152	3G9310V00552	Digital map control panel NVG (Interseat console)	1	..		139-464L3

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
129	3G9310V00251		Digital map remote switching	1	..		139-464L3
130	OB2106-003		Control panel	1	..		139-464L3
131	OB2101-004		Processor (Observer)	1	..		139-464L3
132	OB2700-XXX		Hard disk solid state drive (for customer-specific MAP)	1	..	(9)	-
133	999-0065-11-47		Washer	4	..		139-464L3
134	ED300A103		Decal	1	..		139-464L3
135	ED300A104		Decal	1	..		139-464L3
136	ED300A110		Decal	1	..		139-464L3
137	ED300E26		Decal	1	..		139-464L3
138	ED300PL43		Decal	1	..		139-464L3
139	MS35190-257		Screw	4	..		139-464L3
140	MS35206-215		Screw	4	..		139-464L3
141	MS35206-247		Screw	4	..		139-464L3
142	NAS1149DN432J		Washer	4	..		139-464L3
143	3G9310A08311		DIGITAL MAP SKYFORCE SOFTWARE INSTALLATION	REF	.		-
144	OB2400-XXX		SD Card (operating software and standard MAP)	1	..	(9)	-
145	Primus Epic Option File		Option File	1	.	(10)(11)	-

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

2) CONSUMABLES

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

#	Spec./LHD code number	DESCRIPTION	Q.TY	NOTE	PART
146	20644-1200	Glassfiber 8H Satin (EC934X2)	AR	(12)	I
147	MMM-A-132 Type 1, Class 3 199-05-002 Type II, Class II	Adhesive EA934NA (C057)	AR	(12)	I
148	MMM-A-132, Type 2, Class II 199-05-002 Type I, Class II.	Adhesive EA9309.3NA (C021)	AR	(12)	I
149	MIL-S-8802, Type II, class B2	Sealant Proseal 890 (C153)	AR	(12)	I,II

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
139-464L1	1		
3G5315A21735	1	(1)	
3G5315A41731	1	(2)(3)	Part I
3G2490LXXXXX	1	(6)	
139-464L2	1	(7)	
139-464L3	1		
071-01553-0200	1	(2)	
OB2700-XXX	1	(9)	Part II
OB2400-XXX	1	(9)	
Primus Epic Option File	1	(10)(11)	

NOTE

- (1) Component to be ordered only if helicopter is not already equipped with one of the listed AVCS kits:
 - P/N 4G1830F00511
 - P/N 4G1830F00512
 - P/N 4G1830F00611
 - P/N 4G1830F00612
 - P/N 4G1830F00711
 - P/N 4G1830F00712.
- (2) Component to be ordered if the kit 2nd antenna GPS P/N 4G3450F00911 or kit 2nd GPS P/N 4G3450F00611 or kit 2nd GPS SBAS P/N 4G3450F00613 is not already installed on the helicopter.
- (3) Component to be ordered if the helicopter is equipped with cowling P/N 3G5355A00634.
- (4) The component is included within the provided productive P/N 4G9310A00214A1R.
- (5) The component is included within the provided productive P/N 4G9310A00214A2R.
- (6) The P/N is not properly completed because it is depending on the helicopter configuration. Customers must contact AW139 Product Support Engineering (engineering.support.lhd@leonardocompany.com) to request the new auxiliary CB panel at least three months in advance from the scheduled application of this Service Bulletin.
- (7) Component to be ordered if the helicopter is not equipped with kit Video Management Unit P/N 4G9310F00611.
- (8) Component to be ordered if the helicopter is NVG compatible.
- (9) The indicated P/N is not properly completed because it depends on software version and region maps. Customers must contact AW139 Product Support Engineering (engineering.support.lhd@leonardocompany.com) to request the correct P/N at least three months in advance from the scheduled application of this Service Bulletin.
- (10) Option File P/N is depending upon helicopter configuration that can be different from the one reported in relevant helicopter "Commissa di Vendita" Customers must contact AW139 Product Support Engineering (engineering.support.lhd@leonardocompany.com) to request the correct Option File at least three months in advance from the scheduled application of this Service Bulletin.

(11) This software will not be supplied; as specified by Information Letter AW139-20-105, it will be available for download, along with relevant certification document, in “My Software” sub-section of Leonardo AW Customer Portal website <https://leonardo.agustawestland.com>.

(12) Item to be procured as local supply.

B. SPECIAL TOOLS

N.A.

C. INDUSTRY SUPPORT INFORMATION

Customization.

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.
- 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 protect using a layer of tectyl according to MIL-C-16173 grade I.
- h) All lengths are in mm.

PART I

1. In accordance with 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. Gain access to the area affected by the installation and perform the structural provision P/N 3G5310A42211 as described in the following procedure:
 - 2.1 With reference to Figure 2 Sections B-B and C-C, drill n°8 holes Ø8.20 and install n°8 plugs P/N A254AP10C1 and n°8 sleeves P/N A254AS10D08 by means of adhesive EA934NA (C054). Coordinate hole positions with processor support assy P/N 3G5315A20532.

- 2.2 With reference to Figure 2 Sections B-B and C-C, install the processor support assy P/N 3G5315A20532 by means of n°8 screws MS24694 C58.
- 2.3 With reference to Figure 2 Sections E-E and F-F, drill n°4 holes $\varnothing 3.26 \div 3.38$ in the indicated positions and install n°4 nutplates P/N MS21069L04K by means of n°8 rivets P/N NAS1097AD3-4.
- 2.4 With reference to Figure 3 View G, if not already installed remove existing support assy and install support assy P/N 3G5315A21735 by means of existing hardware.

NOTE

Perform the following step 3 only if helicopter is not equipped with kit 2nd antenna GPS P/N 4G3450F00911 or kit 2nd GPS P/N 4G3450F00611 or kit 2nd GPS SBAS P/N 4G3450F00613.

NOTE

Perform the following step 3 only if helicopter is equipped with tail rotor shaft cowling P/N 3G5355A00635.

3. Perform the antenna GPS structural provision as described in the following procedure:
 - 3.1 With reference to Figure 3 View K, drill a hole $\varnothing 31.8$ through tail rotor shaft cowling assy in the indicated position.
 - 3.2 With reference to Figure 3 View K, drill n°4 holes $\varnothing 4.90 \div 5.03$ through tail rotor shaft cowling and bonding layer and install n°4 nutplates P/N MS21069L3 in the indicated positions by means of n°8 rivets P/N NAS1097U3-4.
 - 3.3 With reference to Figure 3 install the cover P/N 3G5315A42051 by means of n°4 screws P/N MS27039-1-07 and n°4 washers P/N NAS1149D0316K. Seal the edge by means of sealant Proseal 890 (C153).

NOTE

Perform the following steps 4 and 5 only if helicopter is not equipped with kit 2nd antenna GPS P/N 4G3450F00911 or kit 2nd GPS P/N 4G3450F00611 or kit 2nd GPS SBAS P/N 4G3450F00613 and kit Video Management Unit P/N 4G9310F00611.

4. Perform the DMAP Skyforce and GPS variant P/N 3G9310P01211 as described in the following procedure:

- 4.1 Perform the GPS signal variant structural provision P/N 3G5310A52012 as described in the following procedure:
 - 4.1.1 With reference to Figure 4 View A and Section B-B, drill n°2 holes $\varnothing 11.48 \div 11.61$ in the indicated position of the LH lower avionic bay panel and install n°4 inserts P/N NAS1836-08-13 by means of adhesive EA934NA (C054). Coordinate insert hole positions with splitter P/N 7-397-3-3.
 - 4.1.2 With reference to Figure 4 Detail C, remove the panel protective finish in the indicated position coordinating with splitter P/N 7-397-3-3.
- 4.2 With reference to Figure 18 wiring diagram, remove and discard or stow coax cable assembly C3A205 installed between 2nd Antenna GPS relevant sectioning connector J376B and 2ndGPS Unit A179.
- 4.3 With reference to Figure 4 Detail D, install one splitter P/N 7 397-3-3 in the indicated position by means of n°2 washers P/N NAS1149DN832J, n°2 screw P/N NAS1802-08-5. Apply decal P/N ED300CP23.
- 4.4 With reference to Figure 4 Detail D, bond n°2 electrical supports P/N AW001CL001-N6 in the indicated positions by means adhesive EA9309.3NA.
- 4.5 With reference to Figure 5, bond an electrical support P/N A388A3E20C and an electrical support P/N AW001TL3A06 in the indicated positions by means adhesive EA9309.3NA.
- 4.6 With reference to Figure 5 View Rear, remove existing hardware and install a clamp P/N AS21919WDG03 by means of screw P/N NAS1802-3-9 and washer P/N NAS1149D0332J.
- 4.7 With reference to Figure 5 View Rear, remove existing hardware and install a clamp P/N AW001CB05H by means of screw P/N NAS1190E3P4AK.
- 4.8 With reference to Figure 5 View Rear, install a clamp P/N AW001CB05H by means of screw P/N NAS1190E3P5AK and washer P/N NAS1149D0332J.
- 4.9 With reference to Figure 5 View Rear, install a clamp P/N AW001CB05H and spacer P/N NAS43DD3-75N by means of screw P/N NAS1801-3-28.
- 4.10 With reference to Figure 5 View Rear, remove existing hardware and install a clamp P/N AW001CB05H and a spacer P/N NAS43DD3-64N by means of a screw P/N NAS1190E3P22AK and a washers P/N NAS1149D0332J.
- 4.11 With reference to Figure 5 View Rear, remove existing hardware and install n°2 clamps P/N AW001CB05H and n°2 spacers P/N NAS43DD3-70N by means of n°2 screws P/N NAS1190E3P26AK and n°2 washers P/N NAS1149D0332J.
- 4.12 With reference to Figure 5 View A-A, remove existing spacer and install a spacer

P/N NAS43DD3-90N and a clamp P/N AW001CB05H by means of existing hardware.

4.13 With reference to Figure 5, route the following cables:

- 3G9C03C23502 DMAP 2nd GPS variant C/A (C3C235)
- 3G9C03C23602 DMAP 2nd GPS variant C/A (C3C236)
- 3G9C03C23702 DMAP 2nd GPS variant C/A (C3C237)

Secure the coaxial cables means of existing hardware.

4.14 With reference to Figure 5 Rear View, apply n° 2 decals P/N ED300J376B, on both side the panel nearby the J376B connector.

4.15 With reference to Figure 5 View Rear, install n°2 grommets P/N AW002FT102 and n°2 spacers P/N A631A01A in the indicated positions.

4.16 With reference to Figure 5 Views A-A and REAR, install n°4 grommets P/N 999-1700-03-1 and n°4 spacers P/N A631A01A in the indicated positions.

4.17 With reference to Figure 4 Detail D5 and Figure 18 wiring diagram, plug the C/A C3C235 to 2nd GPS connector and CP3P2 GPS splitter connector.

4.18 With reference to Figure 4 Detail D, Figure 5 and Figure 18 wiring diagram, plug the C/A C3C236 to P376 connector and to CP3P1 GPS splitter connector.

4.19 With reference to Figure 4 Detail D, Figure 5 and Figure 18 wiring diagram, plug the C/A C3C237 to CP3P3 GPS splitter connector.

5. Perform DMAP Skyforce electrical provision as described in the following procedure:

5.1 With reference to Figure 8, bond an electrical support P/N AW001CL002C-X2 in the indicated position by means adhesive EA9309.3NA (C021).

5.2 With reference to Figure 10, bond n°6 electrical supports P/N A3630A31, n°2 electrical supports P/N A388A3E08C and an electrical support P/N A3630A3BT in the indicated positions by means adhesive EA9309.3NA (C021).

5.3 With reference to Figure 10 View Rear, install clamp P/N MS21919WDG2 in the indicated position by means of spacer P/N NAS43DD3-64N, washer P/N NAS1149D0332J and screw P/N NAS1190E3P22AK.

5.4 With reference to Figure 10 View Rear, install clamp P/N MS21919WDG7 in the indicated position by means of washer P/N NAS1149D0332J and screw P/N NAS1190E3P5AK.

5.5 With reference to Figure 10 View B-B, install clamp P/N MS21919WDG7 and clamp P/N MS21919WDG8 in the indicated position by means of spacer P/N NAS43DD3-48, washer P/N NAS1149D0332J and screw P/N NAS1190E3P18AK.

5.6 With reference to Figure 10 View C-C, install DMAP rack P/N OB2109-002 by means of n°16 washers P/N NAS1149DN832J and n°16 screws P/N MS35206-

- 243.
- 5.7 With reference to Figure 10 View C-C, install clamp P/N MS21919WDG7 and clamp P/N MS21919WDG8 in the indicated position by means of washer P/N NAS1149D0332J and screw P/N NAS1802-3-10.
- 5.8 With reference to Figure 10 View D-D, install protective rubber P/N A236A03AB in the indicated position of DMAP processor support assy.
- 5.9 With reference to Figure 11, bond an electrical support P/N A388A3E20C in the indicated positions by means adhesive EA9309.3NA (C021).
- 5.10 With reference to Figure 11, install n°2 clamps P/N MS21919WDG2 in the indicated positions by means of n°2 screws P/N NAS1190E3P4AK.
- 5.11 With reference to Figure 11, install clamp P/N MS21919WDG2 in the indicated position by means of screw P/N NAS1190E3P5AK and washer P/N NAS1149D0332J.
- 5.12 With reference to Figure 11, install clamp P/N MS21919WDG2 in the indicated position by means of spacer P/N NAS43DD3-64N and screw P/N NAS1801-3-24.
- 5.13 With reference to Figure 11, remove existing spacer and install clamp P/N MS21919WDG2 in the indicated position by means of spacer P/N NAS43DD3-90N and existing screw.
- 5.14 With reference to Figure 11, install clamp P/N MS21919WDG2 in the indicated position by means of spacer P/N NAS43DD3-64N, screw P/N NAS1190E3P22AK and washer P/N NAS1149D0332J.
- 5.15 With reference to Figures 7 to 12, route the following cables:
- 3G9A01A26222 DMAP C/A (A1A262)
 - 3G9A02A24722 DMAP C/A (A2A247)
 - 3G9A02B24822 DMAP C/A (A2B248)
 - 3G9B01A29422 DMAP C/A (B1A294)
 - 3G9B02A22922 DMAP C/A (B2A229)
 - 3G9B02B38122 DMAP C/A (B2B381)
 - 3G9C01A22122 DMAP C/A (C1A221)
 - 3G9C02A21522 DMAP C/A (C2A215)
 - 3G9C02A21622 DMAP C/A (C2A216)
 - 3G9C03B21222 DMAP C/A (C3B212)
- Secure the coaxial cables means of existing hardware.
- 5.16 With reference to Figure 8 Interseat console View, install cap P/N DCC-01 and stow PL43P1 connector.
- 5.17 With reference to Figure 10 View Rear, install n°2 caps P/N MS90376 8R and

- stow connectors A104P1 and A104P4.
- 5.18 With reference to Figure 10 View Rear, install cap P/N DCC-04 and stow A104SK1 connector.
- 5.19 With reference to Figure 10 View B-B, install n°2 caps P/N DCC-01 and stow connectors A110P1 and A110P2.
- 5.20 With reference to Figure 10 View B-B, install cap P/N DCC-02 and stow connector A110P3.
- 5.21 With reference to Figure 10 View C-C, install cap P/N MS39012/25-0009 and stow connector A103P2.
- 5.22 With reference to Figure 10 View C-C, install cap P/N DCC-02 and stow connector A103P1.
- 5.23 With reference to Figure 10 View C-C, install n°4 grommets P/N 9 AW002FT102, n°3 spacers P/N A631A02A and a spacer P/N A631A01A in the indicated positions.
- 5.24 With reference to Figure 10 View D-D, apply n°2 decals P/N ED300GS1A, n°2 decals P/N ED300GS1B and a decal n°2 decals P/N ED300GS1C in the indicated positions.
- 5.25 With reference to Figure 11, install n°4 grommets P/N AW002FT102 and n°4 spacers P/N A631A01A in the indicated positions.

NOTE

Perform the following steps 6.26 to 6.30 only if helicopter is not equipped with kit 2nd antenna GPS P/N 4G3450F00911 or kit 2nd GPS P/N 4G3450F00611 or kit 2nd GPS SBAS P/N 4G3450F00613.

- 5.26 With reference to Figure 12, route the following cable:
- 3G9D03B20322 DMAP C/A (D3B203)
- Secure the coaxial cables means of existing hardware.
- 5.27 With reference to Figure 12 View Tail, install n°3 clamps P/N MS21919WDG3 in the indicated position by means of existing hardware.
- 5.28 With reference to Figure 12 View Tail, install n°5 clamps P/N MS21919WDG3 in the indicated position by means of n°5 screws P/N NAS1801-3-4 and n°5 washers P/N NAS1149D0332J.
- 5.29 With reference to Figure 12 View Tail, install clamps P/N MS21919WDG3 and P/N MS21919WDG3 in the indicated positions by means of spacer P/N NAS43DD3-28N, screws P/N NAS1801-3-12 and washer

- P/N NAS1149D0332J.
- 5.30 With reference to Figure 12 View Tail, install cap P/N MS90376-14Y and stow connector P/N E26P1
 - 5.31 With reference to Figure 7 and Figure 14 Wiring diagram, perform the electrical connection to A2-1P1 connector by means of n°2 electrical contacts P/N M39029/57-354.
 - 5.32 With reference to Figure 7 and Figure 14 Wiring diagram, perform the electrical connection to TB106P1 connector by means of n°2 electrical contacts P/N M39029/56-348.
 - 5.33 With reference to Figure 7 and Figures 14 and 18 Wiring diagram, disconnect, remove or stow indicated wires and perform the electrical connection to A1-9P1 connector by means of n°8 electrical contacts P/N M39029/57-354.
 - 5.34 With reference to Figure 7 and Figures 14 and 17 Wiring diagram, disconnect, remove or stow indicated wires and perform the electrical connection to A1-3P4 connector by means of n°8 electrical contacts P/N M39029/57-354.
 - 5.35 With reference to Figure 7 and Figure 14 Wiring diagram, perform the electrical connection to A1-3P1 connector by means of electrical contact P/N M39029/57-354.
 - 5.36 With reference to Figure 8 and Figure 13 Wiring diagram, perform the electrical connection to PL1P7 connector by means of n°2 electrical contacts P/N M39029/58-364.
 - 5.37 With reference to Figure 8 and Figure 13 Wiring diagram, perform the electrical connection to PL1P9 connector by means of n°2 electrical contacts P/N M39029/58-363.
 - 5.38 With reference to Figure 8 and Figure 14 Wiring diagram, perform the electrical connection to P113 connector by means of n°2 electrical contacts P/N M39029/58-360.
 - 5.39 With reference to Figure 8 and Figure 14 Wiring diagram, perform the electrical connection to J113 connector by means of n°2 electrical contacts P/N M39029/56-348.
 - 5.40 With reference to Figure 8 and Figures 13 and 14 Wiring diagram, perform the electrical connection to P133 connector by means of n°22 electrical contacts P/N M39029/58-360.
 - 5.41 With reference to Figure 8 and Figures 13 and 14 Wiring diagram, perform the electrical connection to J133 connector by means of n°22 electrical contacts P/N M39029/56-348.
 - 5.42 With reference to Figure 8 and Figures 13 Wiring diagram, perform the electrical

- connection to TB129/3 by means of electrical contact P/N A523A-A05.
- 5.43 With reference to Figure 8 and Figures 13 Wiring diagram, perform the electrical connection to TB133 by means of electrical contact P/N A523A A02.
 - 5.44 With reference to Figure 8 and Figures 13 and 14 Wiring diagram, perform the electrical connection to J117 connector by means of n°2 electrical contacts P/N M39029/56-348.
 - 5.45 With reference to Figure 9 and Figures 13 and 14 Wiring diagram, perform the electrical connection to P117 connector by means of n°2 electrical contacts P/N M39029/63-368.
 - 5.46 With reference to Figure 9 and Figures 13 and 14 Wiring diagram, perform the electrical connection to J217 connector by means of n°2 electrical contacts P/N M39029/56-351.
 - 5.47 With reference to Figure 9 and Figures 13 and 14 Wiring diagram, perform the electrical connection to J219 connector by means of n°22 electrical contacts P/N M39029/56-351.
 - 5.48 With reference to Figure 9 and Figure 14 Wiring diagram, perform the electrical connection to P205 connector by means of n°2 electrical contacts P/N M39029/58-363.
 - 5.49 With reference to Figure 10 and Figure 14 Wiring diagram, perform the electrical connection to P217 connector by means of n°2 electrical contacts P/N M39029/58-363.
 - 5.50 With reference to Figure 10 and Figures 13 and 14 Wiring diagram, perform the electrical connection to P219 connector by means of n° 22 electrical contacts P/N M39029/58-363.
 - 5.51 With reference to Figure 10 and Figures 13 and 14 Wiring diagram, perform the electrical connection to P207 connector by means of n°4 electrical contacts P/N M39029/58-363.
 - 5.52 With reference to Figure 10 and Figures 13 and 14 Wiring diagram, perform the electrical connection to J207 connector by means of n°4 electrical contacts P/N M39029/56-351.
 - 5.53 With reference to Figure 11 and Figure 13 Wiring diagram, perform the electrical connection to TB305 by means of n°2 electrical contacts P/N A523A-A05.
 - 5.54 With reference to Figure 12 and Figure 14 Wiring diagram, perform the electrical connection to J205 connector by means of n°2 electrical contacts P/N M39029/56-351.
 - 5.55 With reference to Figure 12 and Figure 14 Wiring diagram, perform the electrical connection to J118 connector by means of n°2 electrical contacts

P/N M39029/56-348.

- 5.56 With reference to Figure 12 and Figure 14 Wiring diagram, perform the electrical connection to P118 connector by means of n°2 electrical contacts P/N M39029/58-360.
- 5.57 Modify the auxiliary C/B panel on the overhead panel, as described in the following procedure:

NOTE

Customer must contact AW139 PSE at least 3 months in advance of embodiment date of this Service Bulletin in order to collect the exact W/D applicable to helicopter.

- 5.57.1 With reference to AMP DM 39-A-24-91-04-00A-920A-K, remove from the Overhead C/B panel the existing integrally-lit panel and install the new integrally-lit panel P/N 3G2490LXXXXX.
 - 5.57.2 Install one circuit breaker CB164 P/N MS3320-10 on the MAIN BUS 2 in the position indicated as DIGITAL MAP on the new integrally-lit panel P/N 3G2490LXXXXX. Apply decal P/N ED300CB164.
 - 5.57.3 Install one circuit breaker CB175 P/N MS3320-1 on the MAIN BUS 2 in the position indicated as DIGITAL MAP CTL on the new integrally-lit panel P/N 3G2490LXXXXX. Apply decal P/N ED300CB175.
 - 5.57.4 Perform the electrical connection between Pin 2 of CB164 and Pin F of connector PL1J7 by means of a piece of cable A556A-T16 of adequate length, terminal lug P/N°MS25036-149 and electrical contact P/N M39029/56-353.
 - 5.57.5 Perform the electrical connection between Pin U of connector PL1J7 and Pin E of TB504 by means of a piece of cable A556A T16 of adequate length and electrical contacts P/N M39029/56-353 and P/N A523A-A07.
 - 5.57.6 Perform the electrical connection between Pin 2 of CB175 and Pins e and f of connector PL1J9 by means of n°3 pieces of cable A556A T20 of adequate length, a terminal lug P/N MS25036-149 n°2 electrical contacts P/N M39029/56-353 and a splice P/N M81824/1-2.
 - 5.58 Perform a pin-to-pin test of all the electrical connection made.
6. In accordance with weight and balance changes, update the Chart A (see Rotorcraft Flight Manual, Part II, section 6).
 7. Return the helicopter to flight configuration and record for compliance with Part I of this Service Bulletin on the helicopter logbook.

8. Send the attached compliance form to the following mail box:

engineering.support.lhd@leonardocompany.com

As an alternative, gain access to My Communications section on Leonardo WebPortal and compile the “Service Bulletin Application Communication”.

PART II

1. In accordance with 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. Perform the Skyforce DMAP equipment installation P/N 4G9310A00711 as described in the following procedure:
 - 2.1 With reference to Figure 19 View Interseat console, remove existing plate assy P/N 999-0500-85-237, apply decal P/N ED300PL43 and install the DMAP control panel P/N 3G9310V00152 or P/N 3G9310V00552.
 - 2.2 With reference to Figure 19 View Rear, install the A103 processor P/N OB2101-004. Apply decal P/N ED300A103.
 - 2.3 With reference to Figure 19 View Rear, plug the connectors A110P1, A110P2 and A110P3 and install the A110 DMAP switch P/N 3G9310V00251 by means of n°4 washers P/N 999-0065-11-47, n°4 washer P/N NAS1149DN432J and n°4 screws P/N MS35206-215. Apply decal P/N ED300A110.
 - 2.4 With reference to Figure 19 View LH rear avionic bay, install the control panel P/N OB2106-003 and data cartridge P/N OB2700-XXX. Apply decal P/N ED300A104.
 - 2.5 With reference to Figure 21, assemble the switch DMAP panel assy P/N 3G9310A17831 as shown.
 - 2.6 With reference to Figure 20 View A, install the switch DMAP panel assy P/N 3G9310A17831.
 - 2.7 With reference to Figure 20, perform the DMAP Skyforce reader electrical variant as described in the following procedure:
 - 2.7.1 With reference to Figure 22 wiring diagram, remark the indicated wires U443A and U444A respectively into U7200A and U7201A.
 - 2.7.2 With reference to Figure 23 wiring diagram, disconnect remove or stow the following wires.
 - U447A
 - U448A
 - U449A
 - U450A
 - U451A
 - U452A
 - U453A
 - U454A

- U455A
 - U456A
 - U480A
- 2.7.3 With reference to Figure 20, View B install an electrical support P/N AW001CL008-CM in the indicated position by means of EA9309.3NA adhesive.
- 2.7.4 With reference to Figure 20, route the DMAP reader C/A C2A414 and C2A415 following the existing routes.
- 2.7.5 With reference to Figure 24 wiring diagram, perform the electrical connection to connector A103PA by means of n°3 pins P/N M39029/12-149.
- 2.7.6 With reference to Figure 24 wiring diagram, perform the electrical connection to connector A103P1 by means of n°4 pins P/N 05-20-110-0-00GAD.
- 2.7.7 With reference to Figure 24 wiring diagram, perform the electrical connection to connector A104P1 by means of n°12 pins P/N M39029/57-354 and n°2 terminal lugs P/N MS25036-148.
- 2.7.8 With reference to Figure 20 View B and Figure 23 wiring diagram, perform electrical connection between marked wires U7202A(WH), U7204B(WH) and U7204C(WH) by means of splice P/N M81824/1-1.
- 2.7.9 With reference to Figure 20 View B and Figure 23 wiring diagram, perform electrical connection between marked wires U7202A(BL), U7204B(BL) and U7204C(BL) by means of splice P/N M81824/1-1.
- 2.7.10 With reference to Figure 24 wiring diagram, perform the electrical connection to switch S363 by means of n°2 pins P/N M39029/1-102.
- 2.7.11 With reference to Figure 24 wiring diagram, perform the electrical connection to terminal board TB305 by means of pin P/N A523A-A02.

NOTE

Perform the following step 2.6 only if helicopter is not equipped with kit 2nd antenna GPS P/N 4G3450F00911 or kit 2nd GPS P/N 4G3450F00611 or kit 2nd GPS SBAS P/N 4G3450F00613.

- 2.8 With reference to Figure 19 View Tail cowling, remove the existing plate assy, apply the decal P/N ED300E26 and install the GPS antenna P/N 071-01620-0200 by means n°4 screws P/N MS35190-257. Seal the edge by means of

sealant Proseal 890.

- 2.9 With reference to Figure 19 View A-A, remove the lock-rings from the DIGITAL MAP and DIGITAL MAP CTL circuit breakers.
3. In accordance with AMP DM 39-C-34-57-00-00A-320A-K, perform the Skyforce DMAP system operational check.
4. In accordance with weight and balance changes, update the Chart A (see Rotorcraft Flight Manual, Part II, section 6).
5. Return the helicopter to flight configuration and record for compliance with Part II of this Service Bulletin on the helicopter logbook.
6. Send the attached compliance form to the following mail box:

engineering.support.lhd@leonardocompany.com

As an alternative, gain access to My Communications section on Leonardo WebPortal and compile the “Service Bulletin Application Communication”.

KIT DIGITAL MAP SKYFORCE

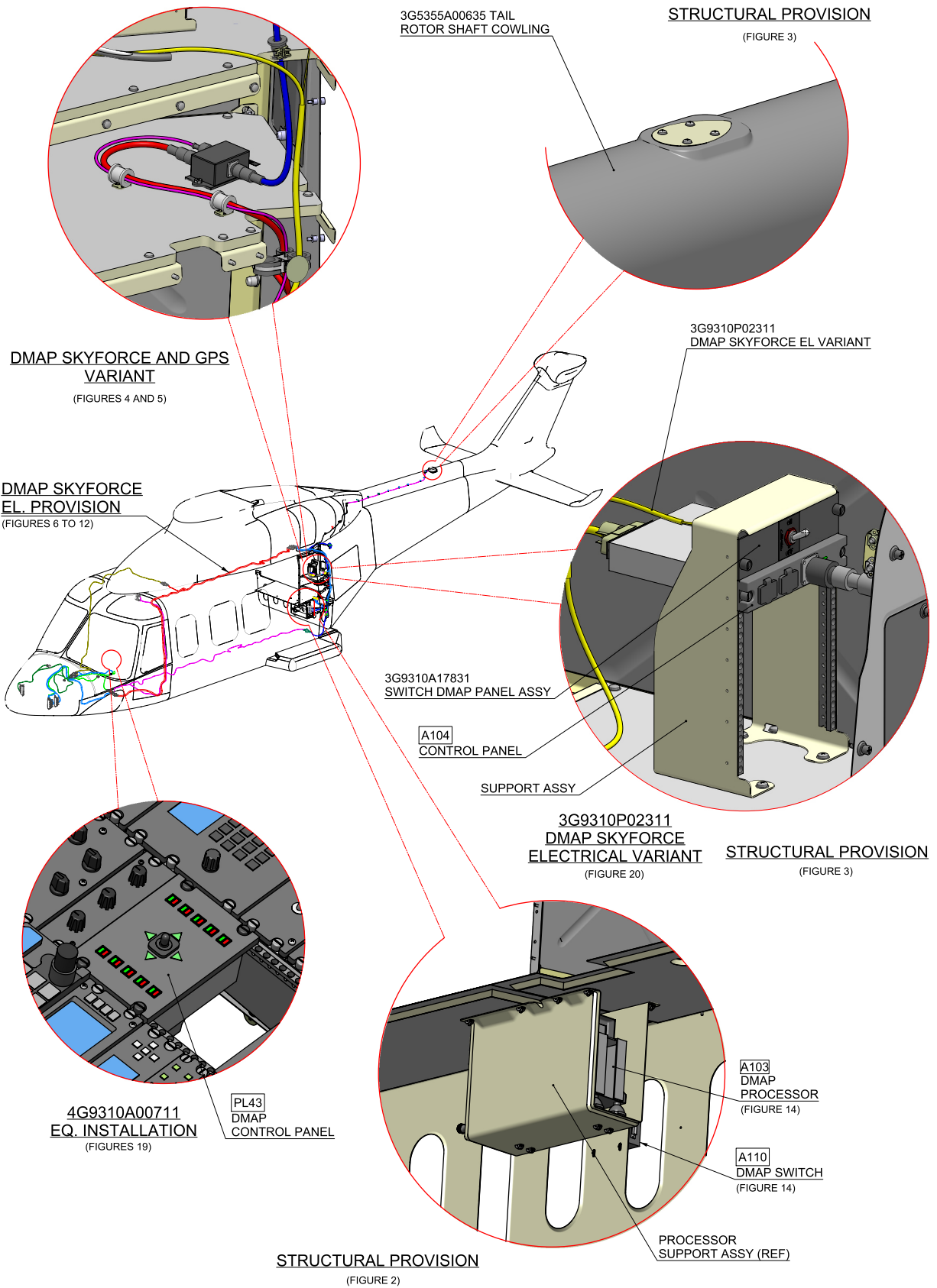


Figure 1

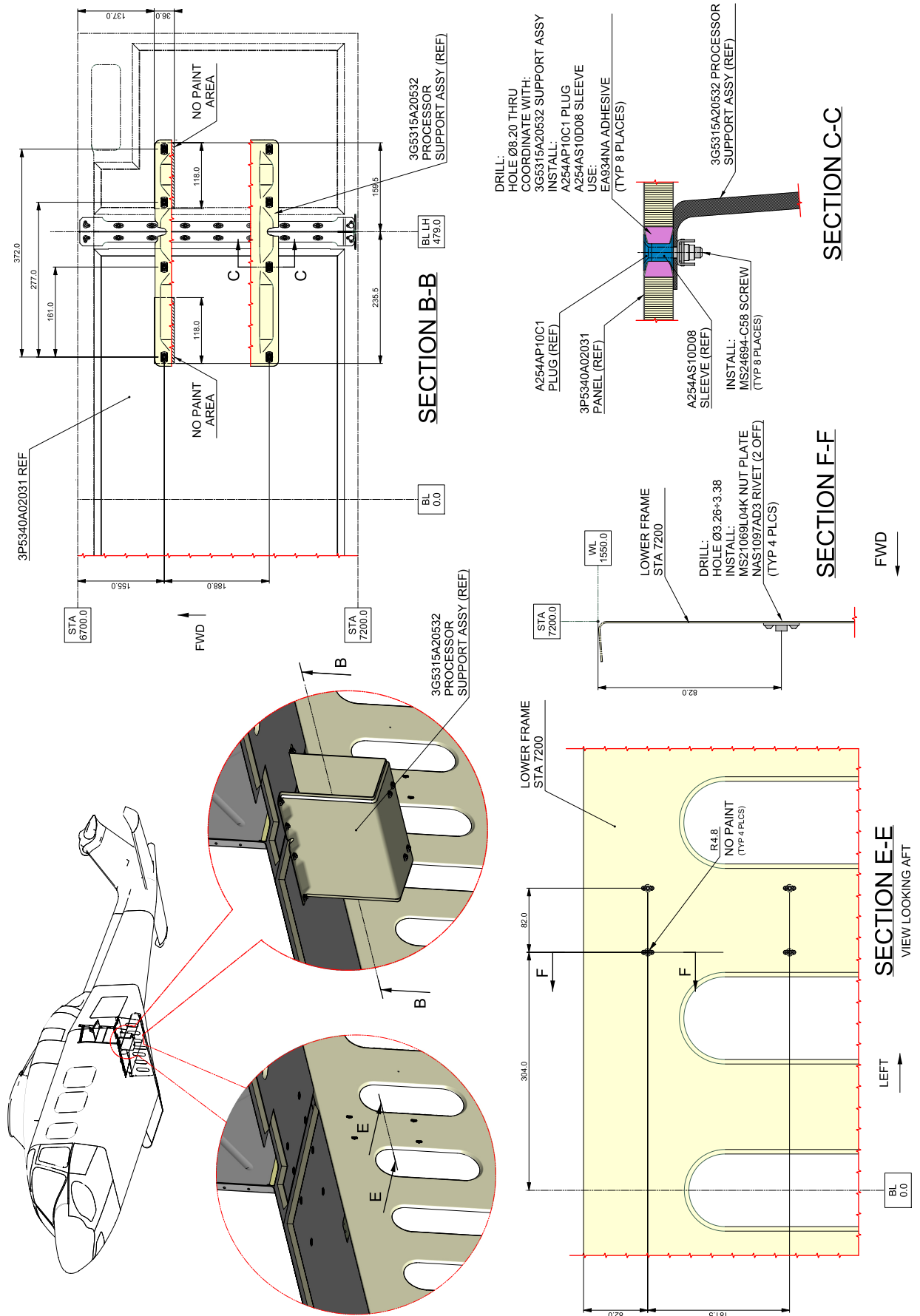


Figure 2

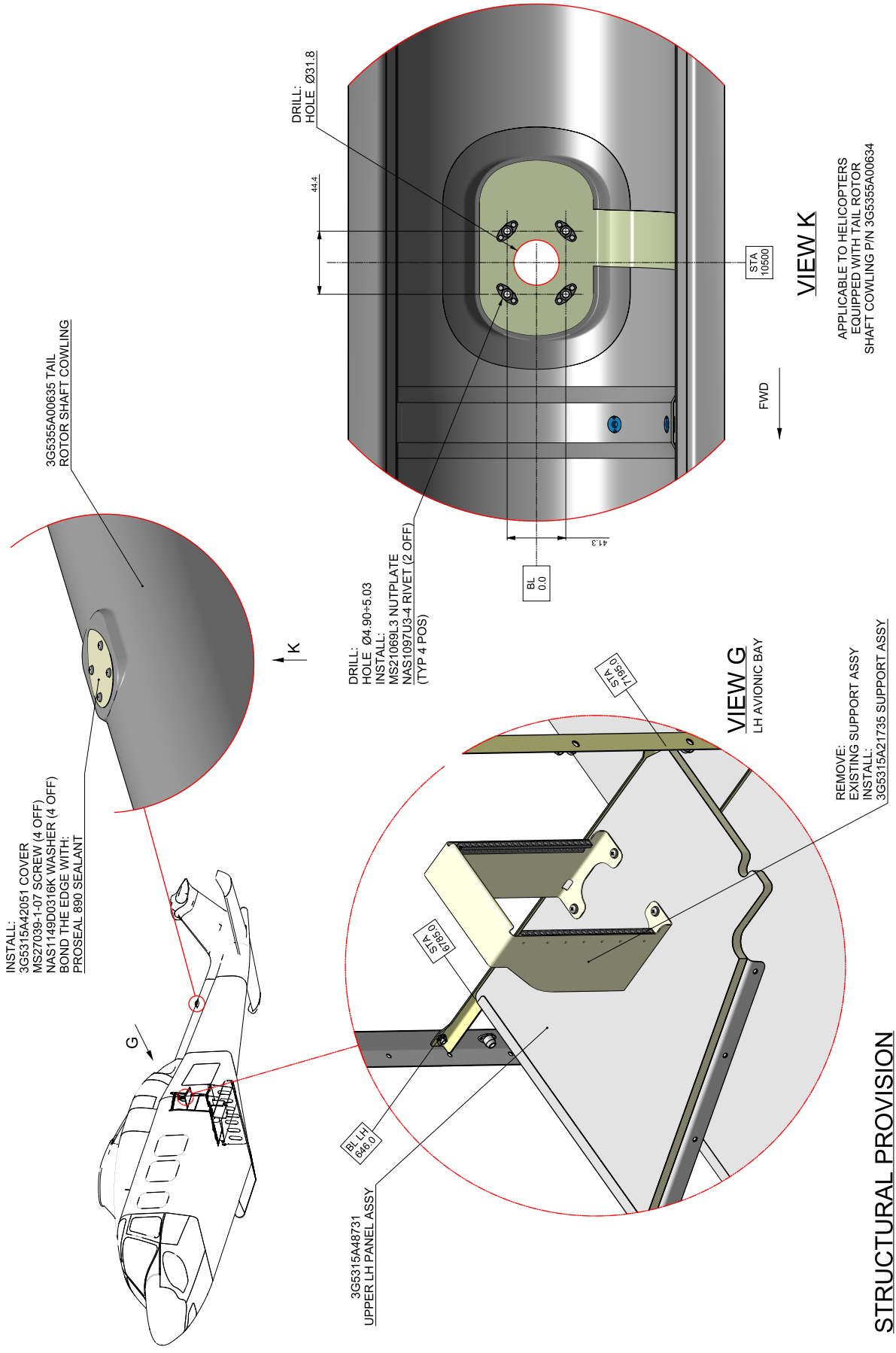


Figure 3

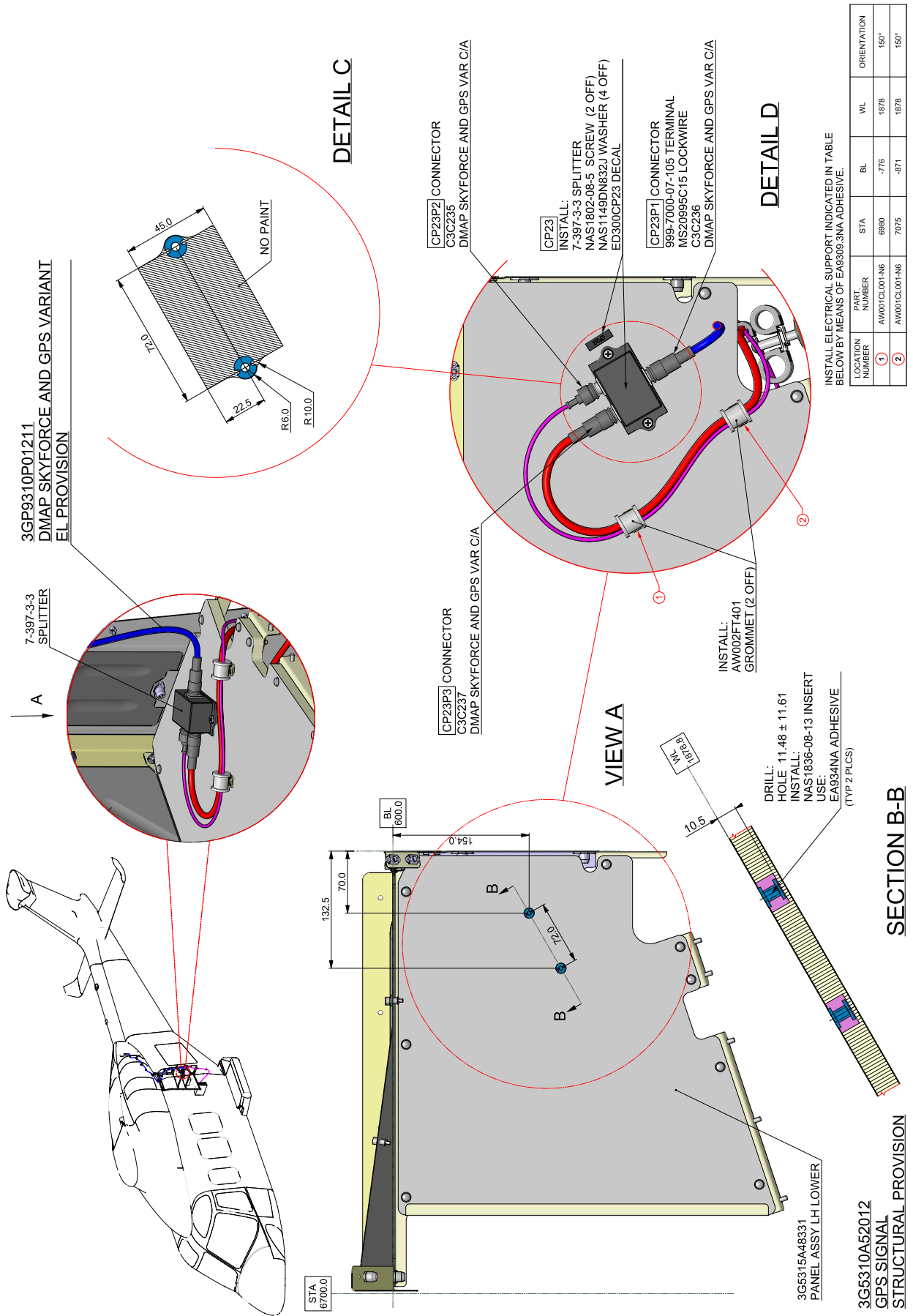
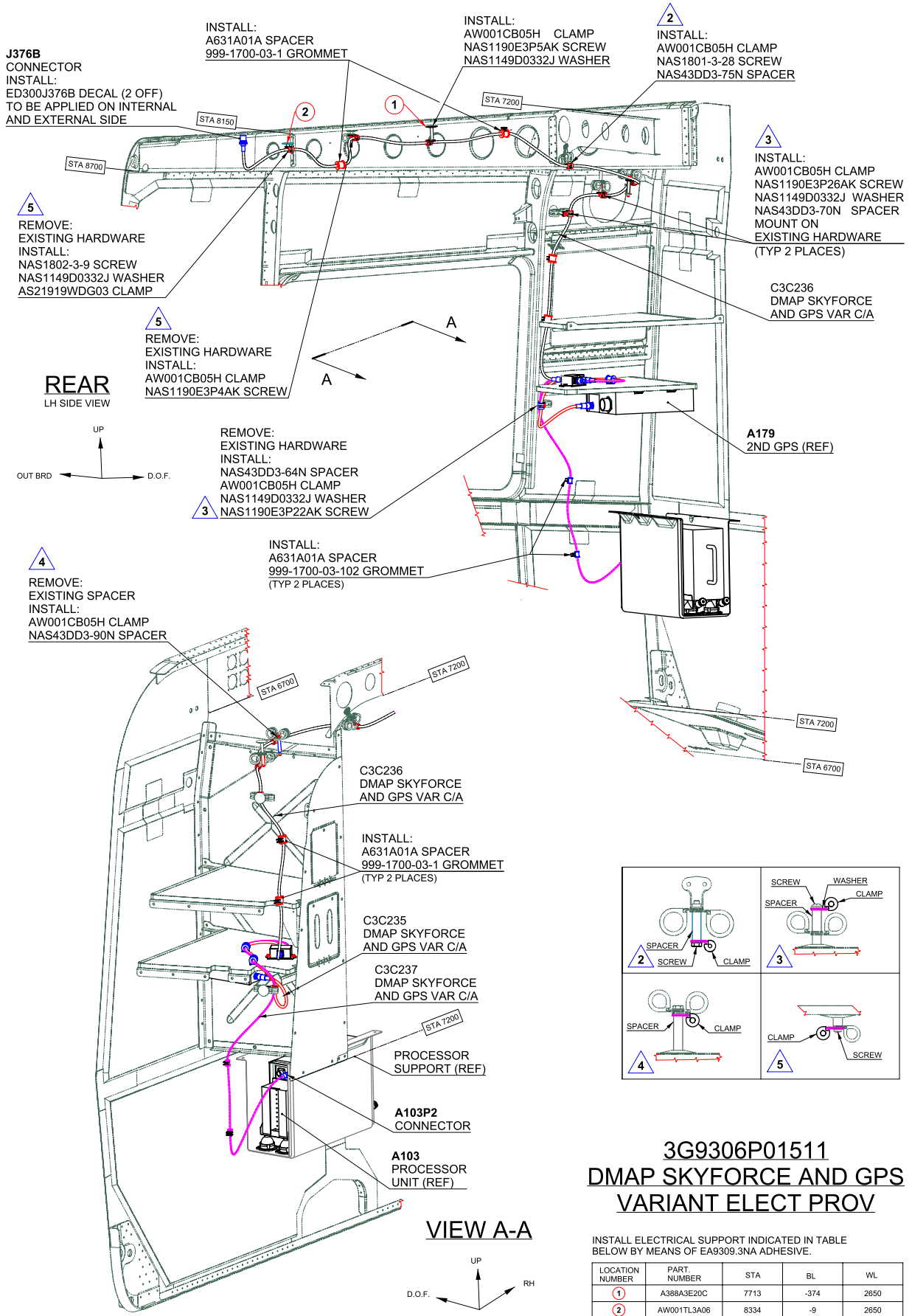


Figure 4



3G9306P01511
DMAP SKYFORCE AND GPS
VARIANT ELECT PROV

Figure 5

ELECTRICAL PROVISION

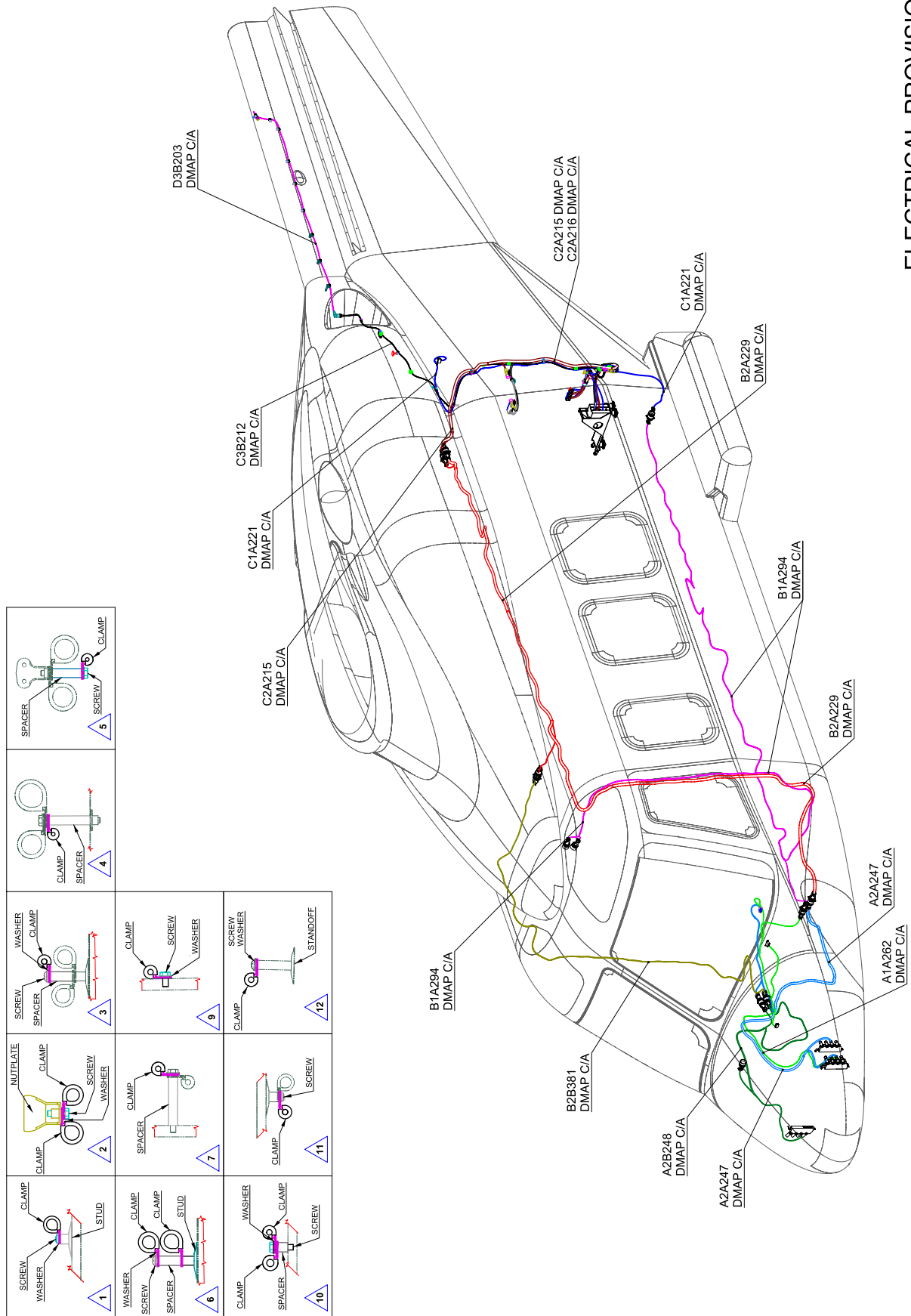
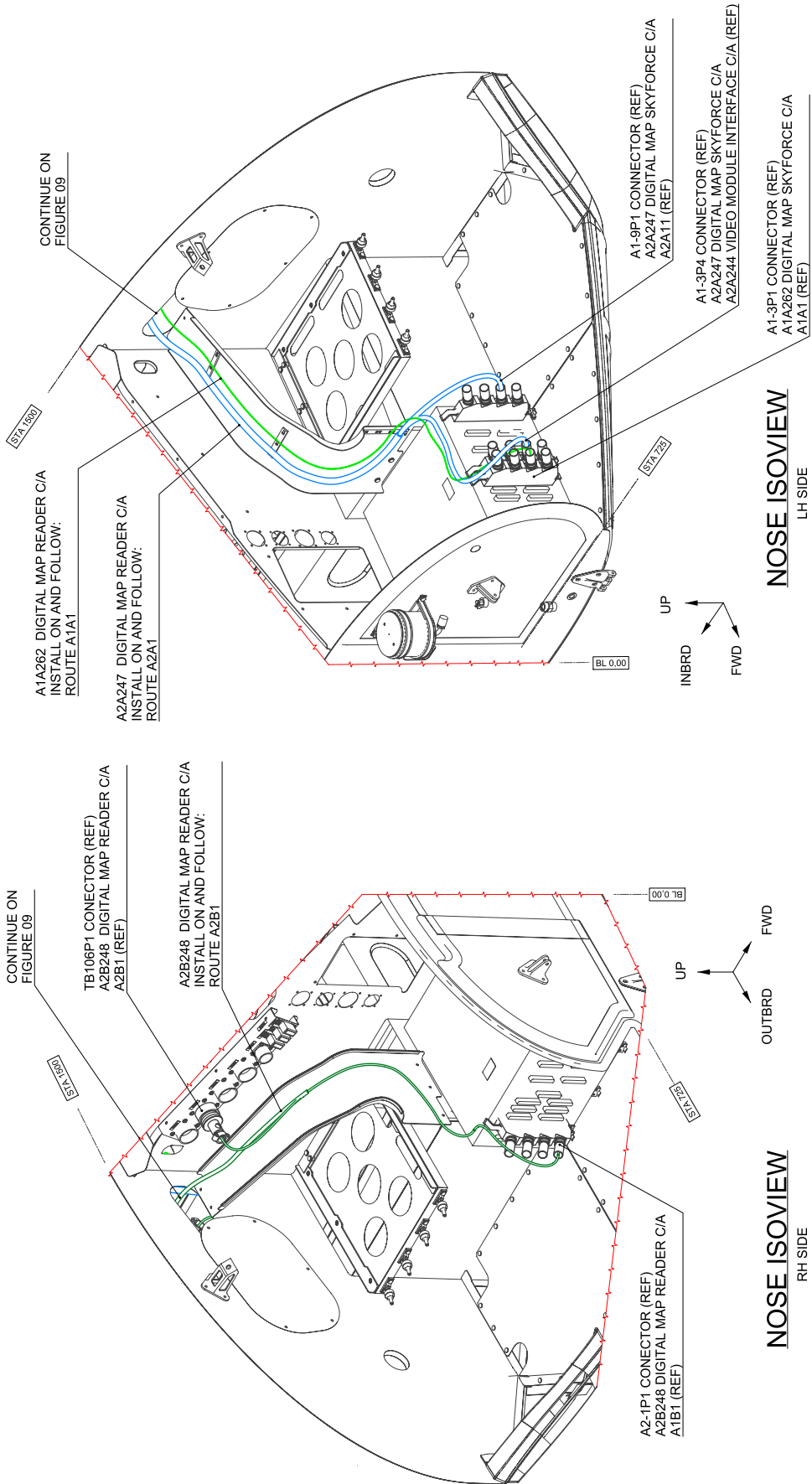


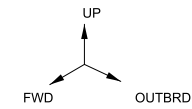
Figure 6



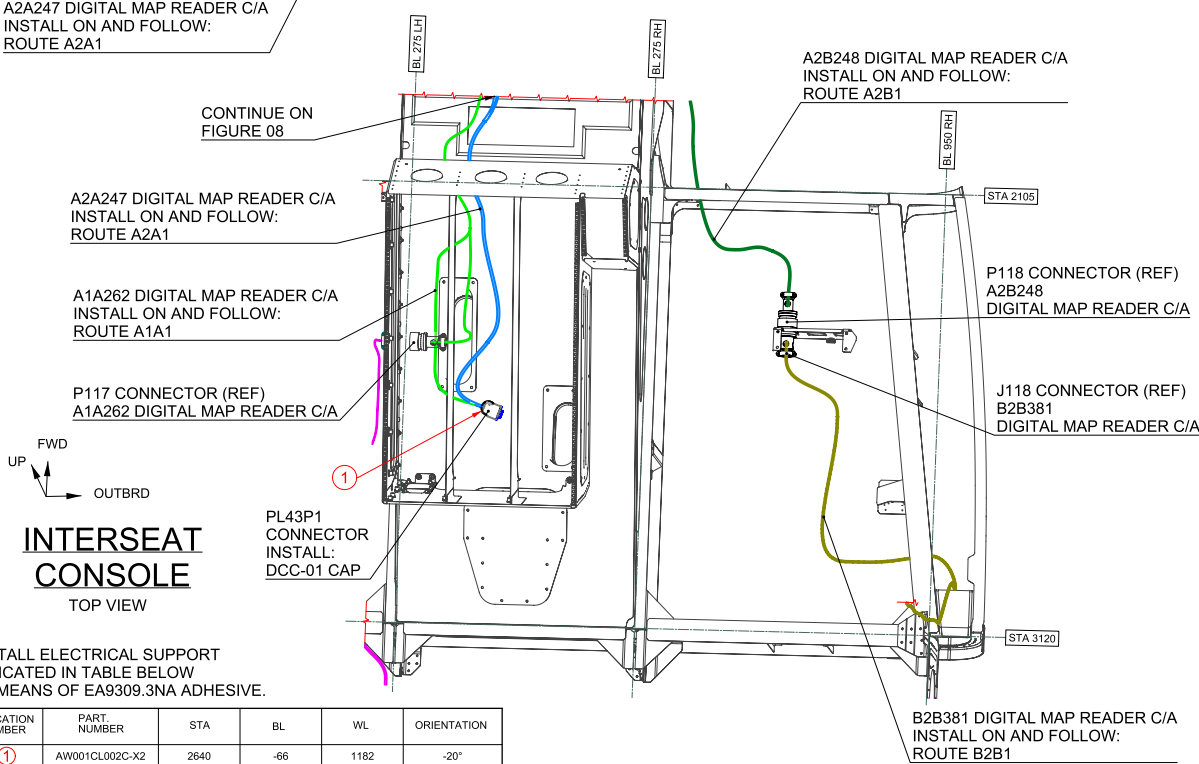
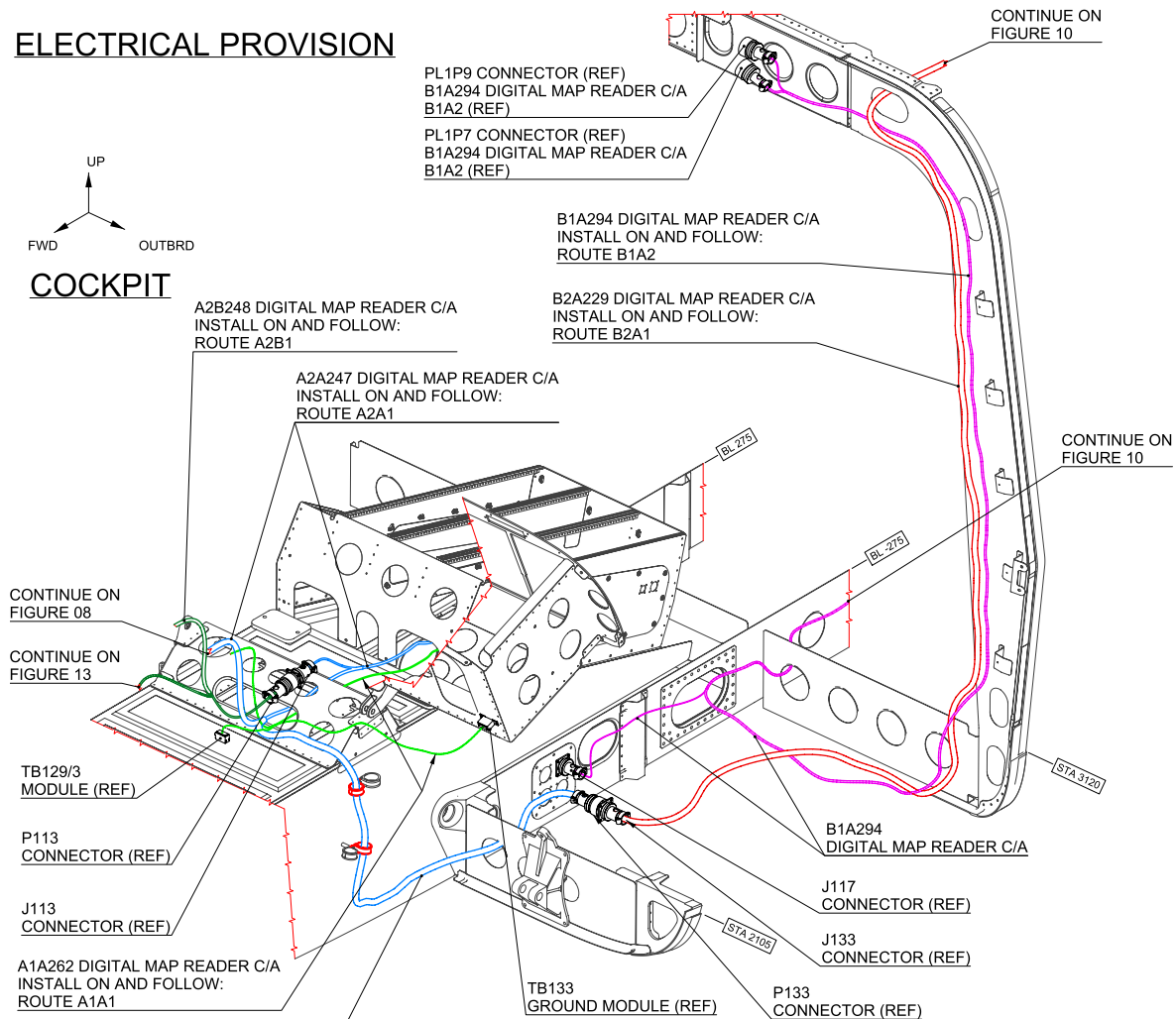
ELECTRICAL PROVISION

Figure 7

ELECTRICAL PROVISION



COCKPIT



INTERSEAT CONSOLE

TOP VIEW

INSTALL ELECTRICAL SUPPORT INDICATED IN TABLE BELOW BY MEANS OF EA9309.3NA ADHESIVE.

LOCATION NUMBER	PART NUMBER	STA	BL	WL	ORIENTATION
①	AW001CL002C-X2	2640	-66	1182	-20°

Figure 8

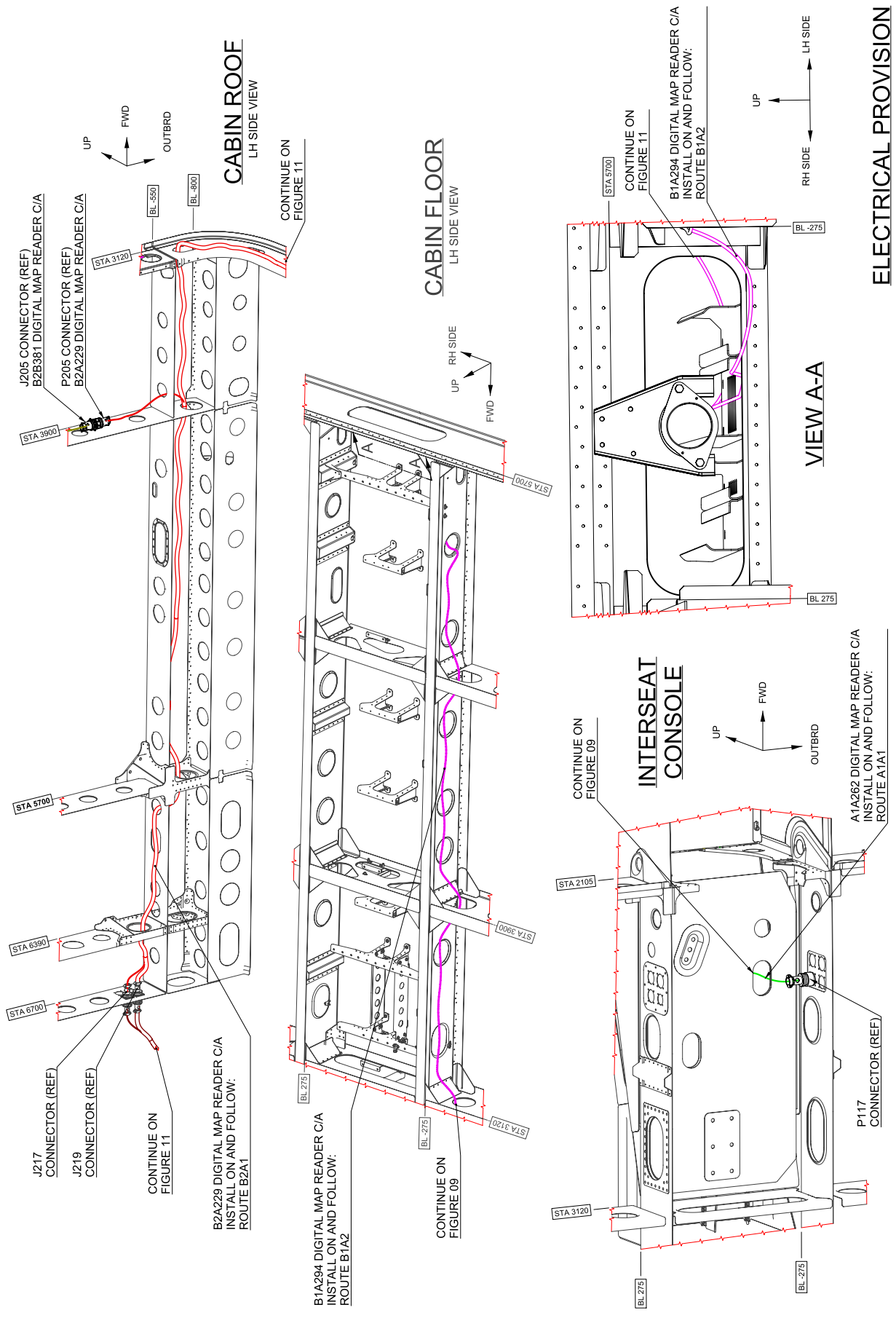


Figure 9

ELECTRICAL PROVISION

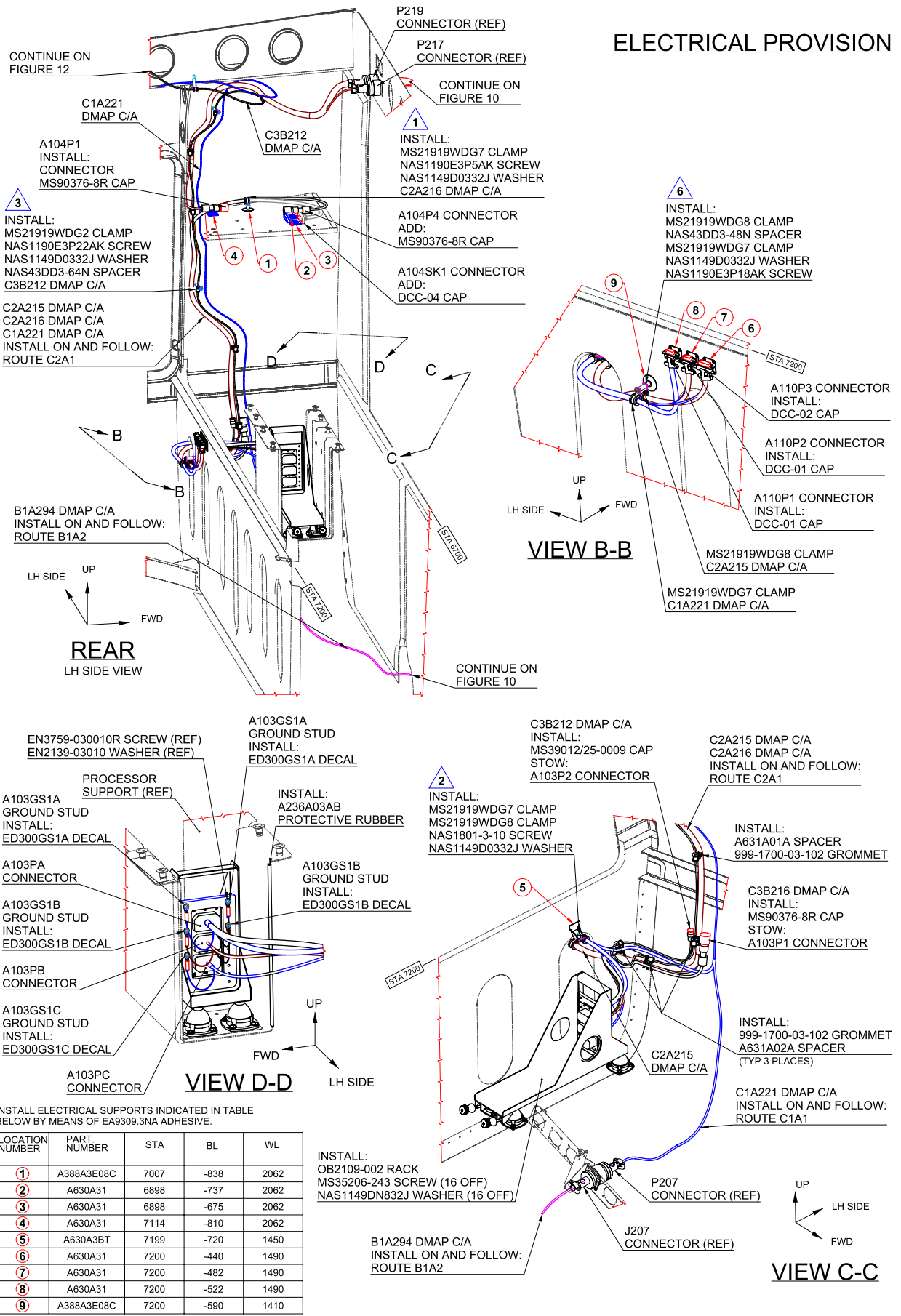
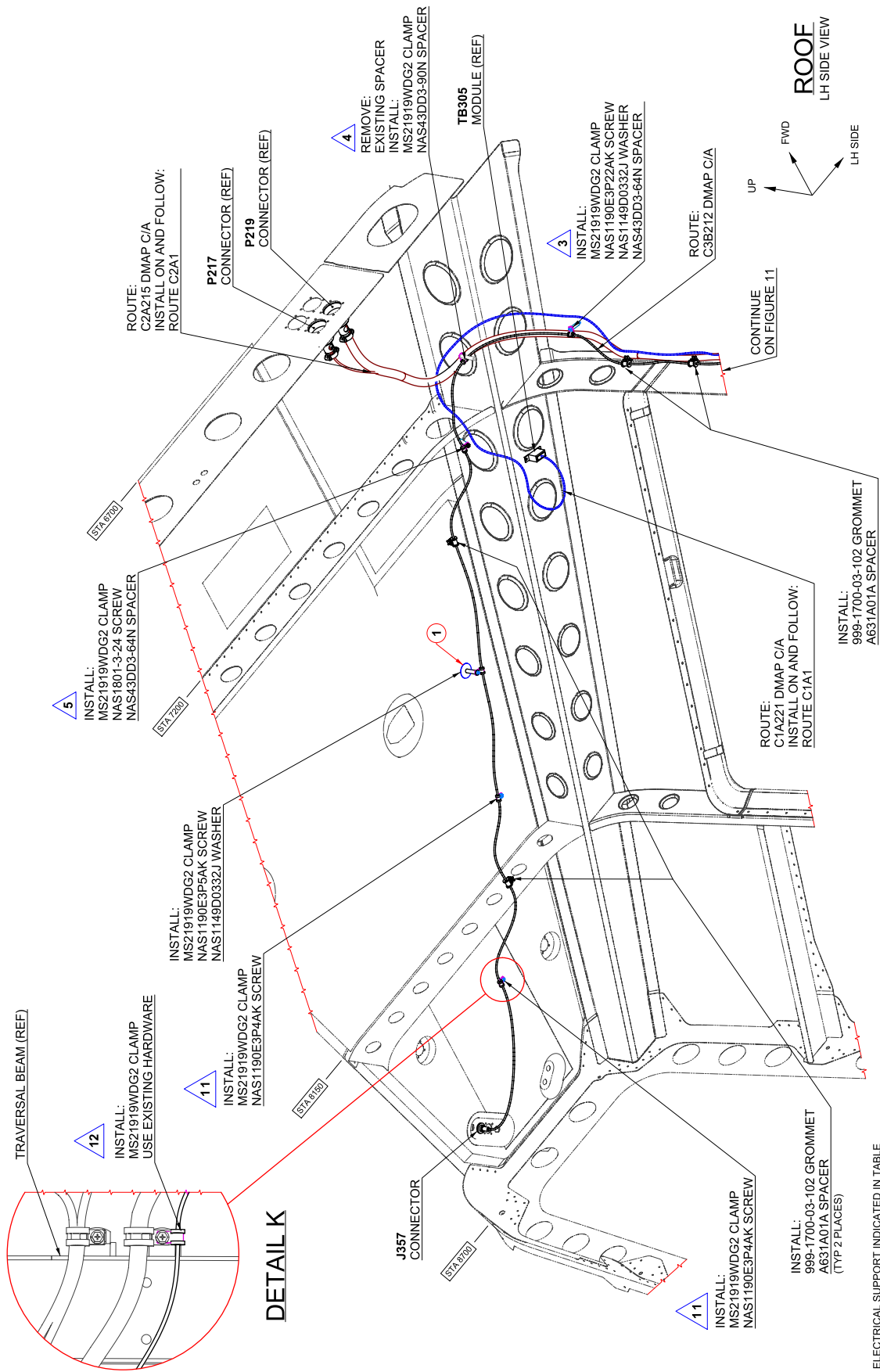


Figure 10



ELECTRICAL PROVISION

INSTALL ELECTRICAL SUPPORT INDICATED IN TABLE BELOW BY MEANS OF EA9309.3NA ADHESIVE.

LOCATION NUMBER	PART NUMBER	STA	BL	WL
①	A388A3E20C	7713	-374	2652

Figure 11

ELECTRICAL PROVISION

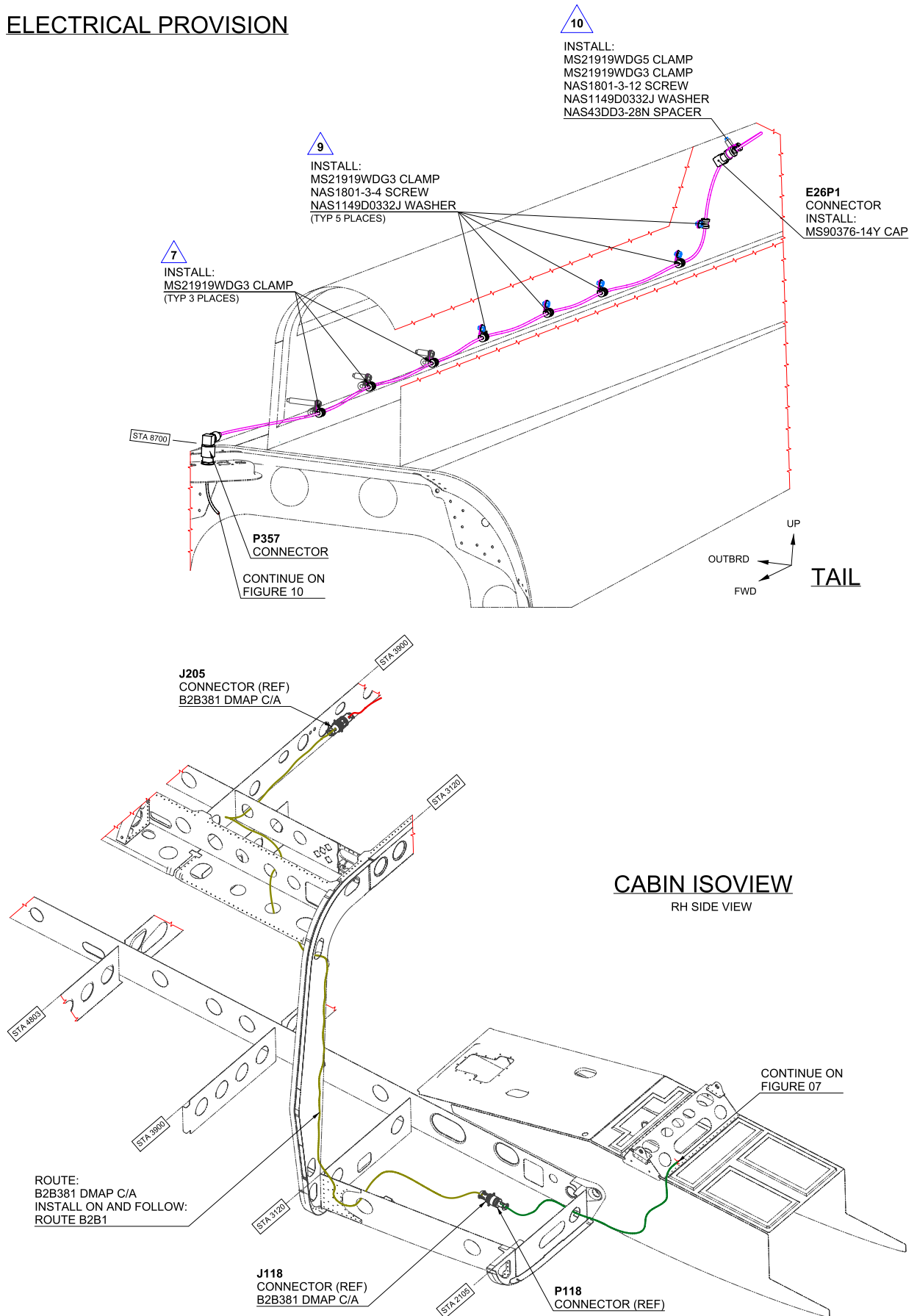
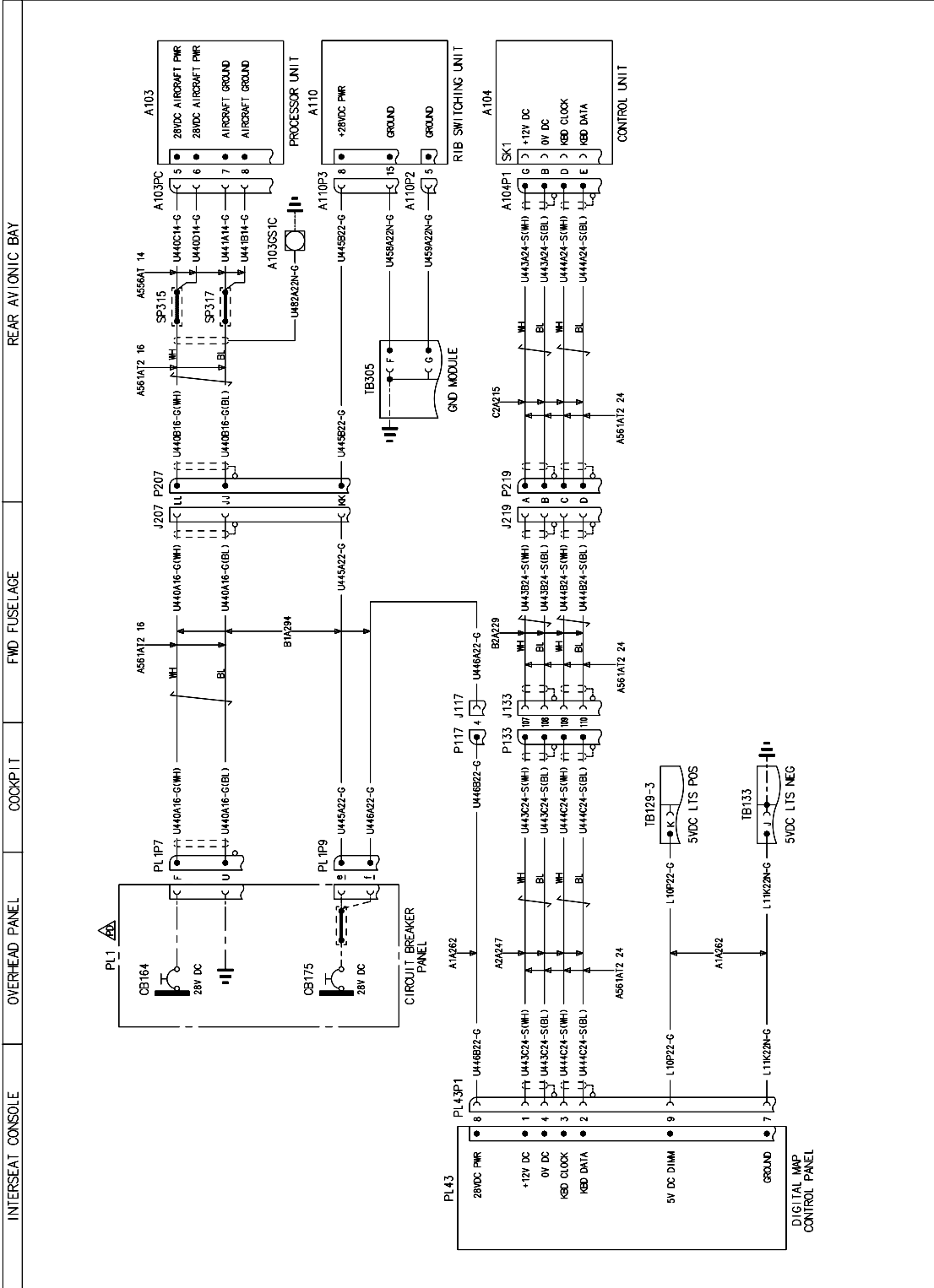


Figure 12

DRAWING REF. KEY
FEEDER BUS BMS
302480M001**



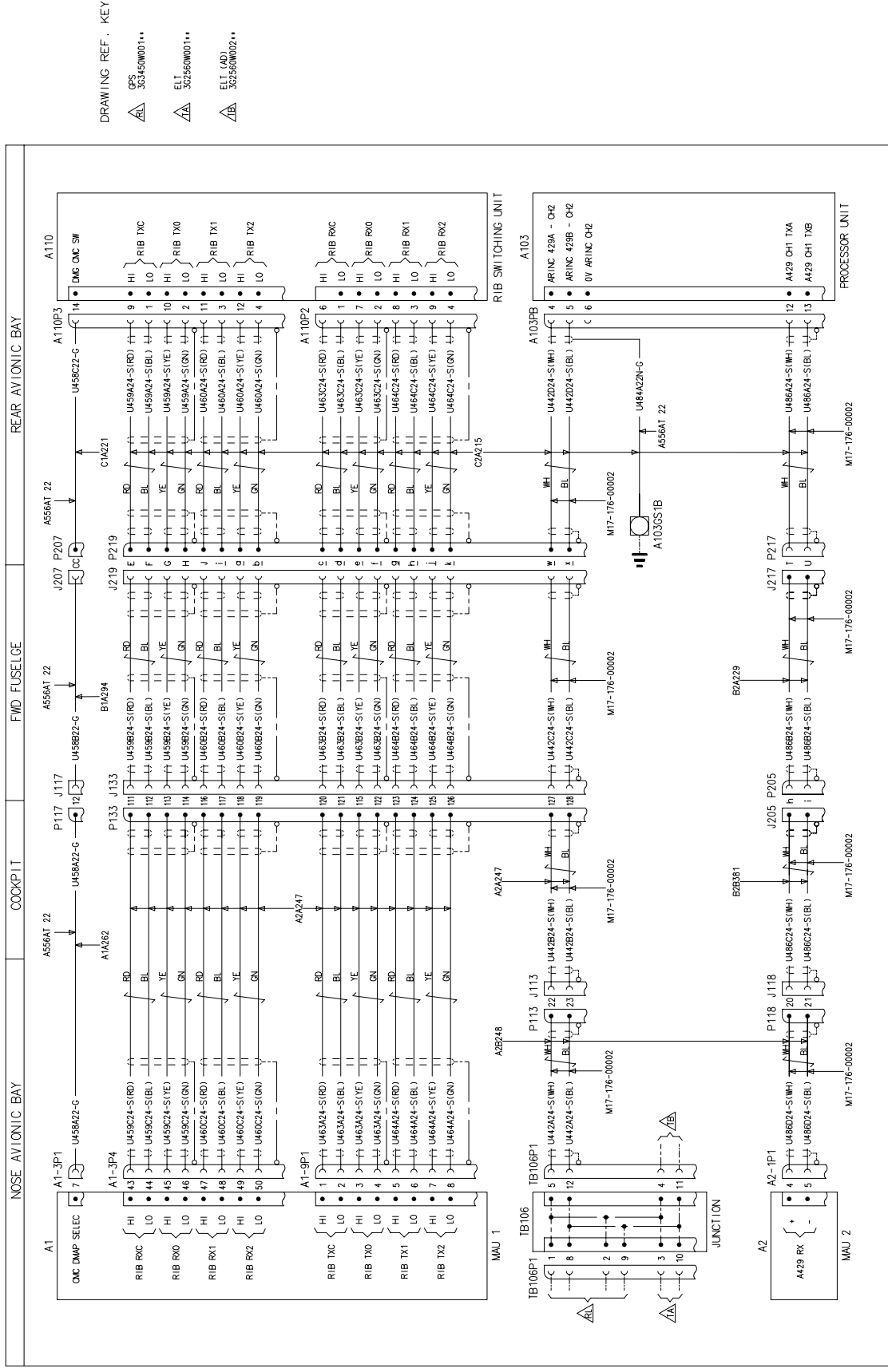
DIGITAL MAP SKYFORCE ELECTRICAL PROVISION
(SHEET 1)

FUNCTIONAL NOTES

ALL CABLES ARE IN LOOM C1A021 UNLESS SPECIFIED
ALL CABLES ARE OF TYPE ASS6AT 22 UNLESS SPECIFIED

Figure 13

S.B. N°139-464
DATE: February 25, 2021
REVISION: /

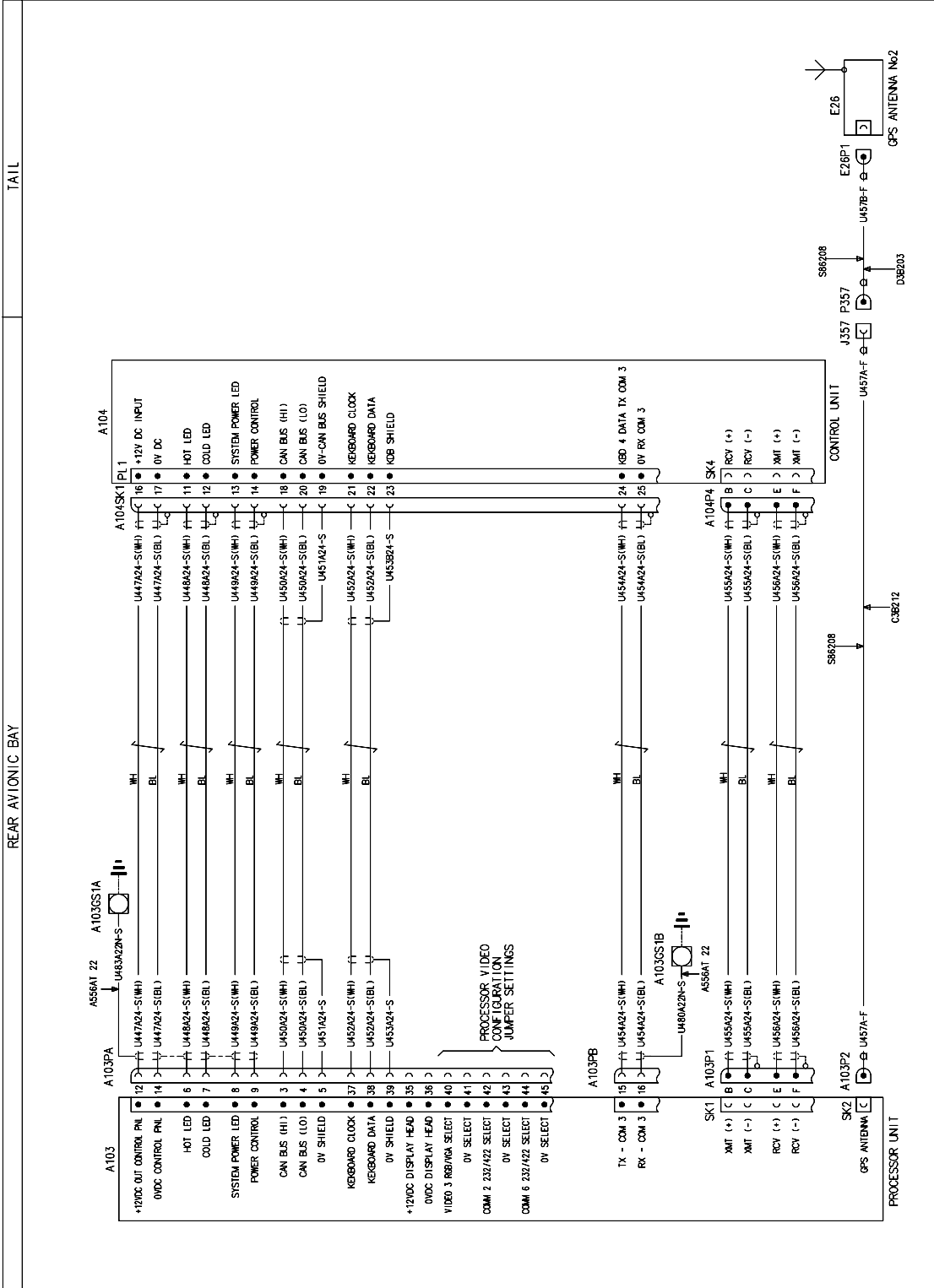


DIGITAL MAP SKYFORCE ELECTRICAL PROVISION
(SHEET 2)

FUNCTIONAL NOTES
ALL CABLES ARE IN LDM P2429 UNLESS SPECIFIED.
ALL CABLES ARE OF TYPE NF2400-01 UNLESS SPECIFIED

Figure 14

DIGITAL MAP SKYFORCE ELECTRICAL PROVISION
(SHEET 3)



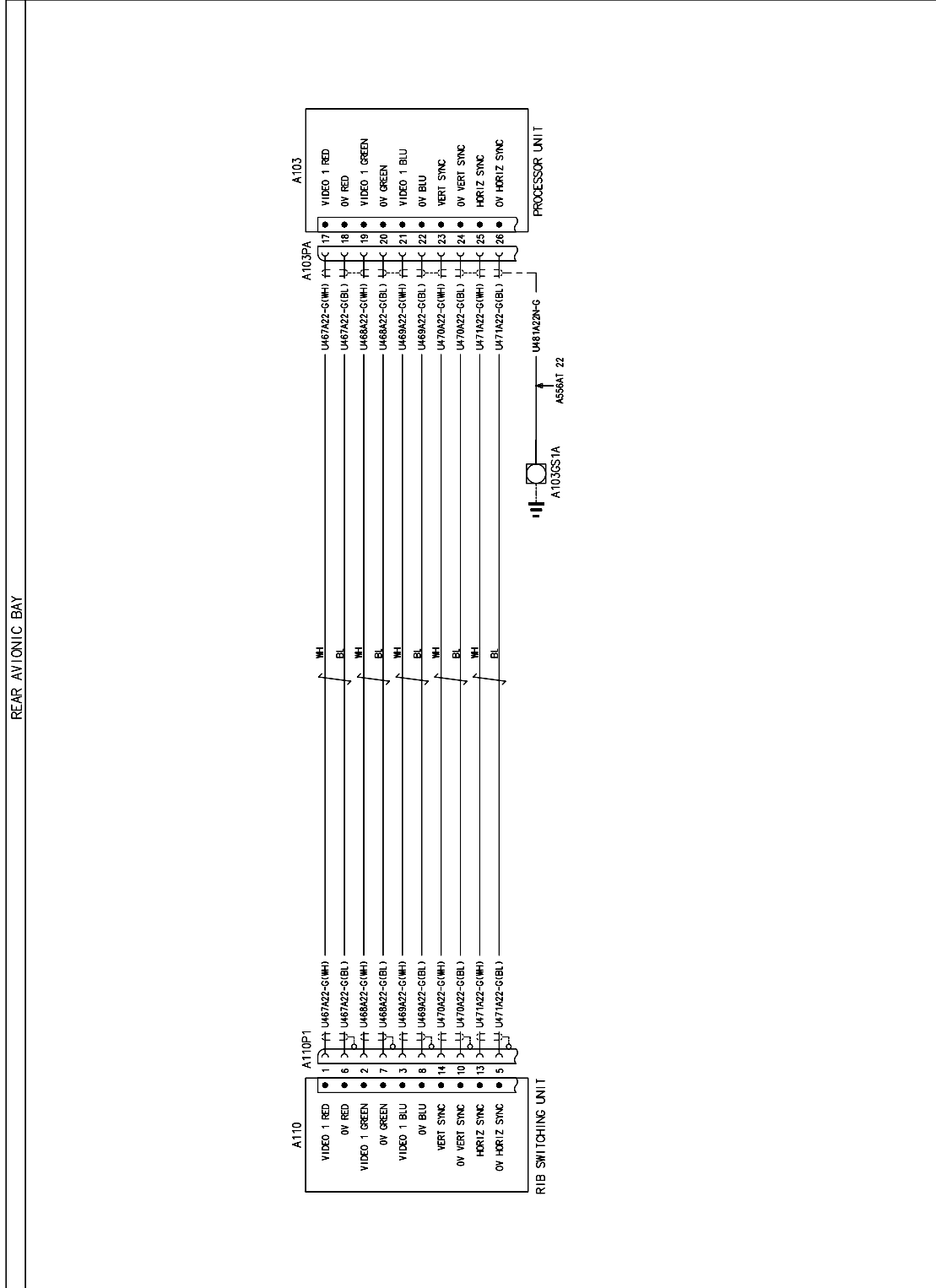
DRAWING REF. KEY

TAIL

Figure 15

REAR AVIONIC BAY

DRAWING REF. KEY



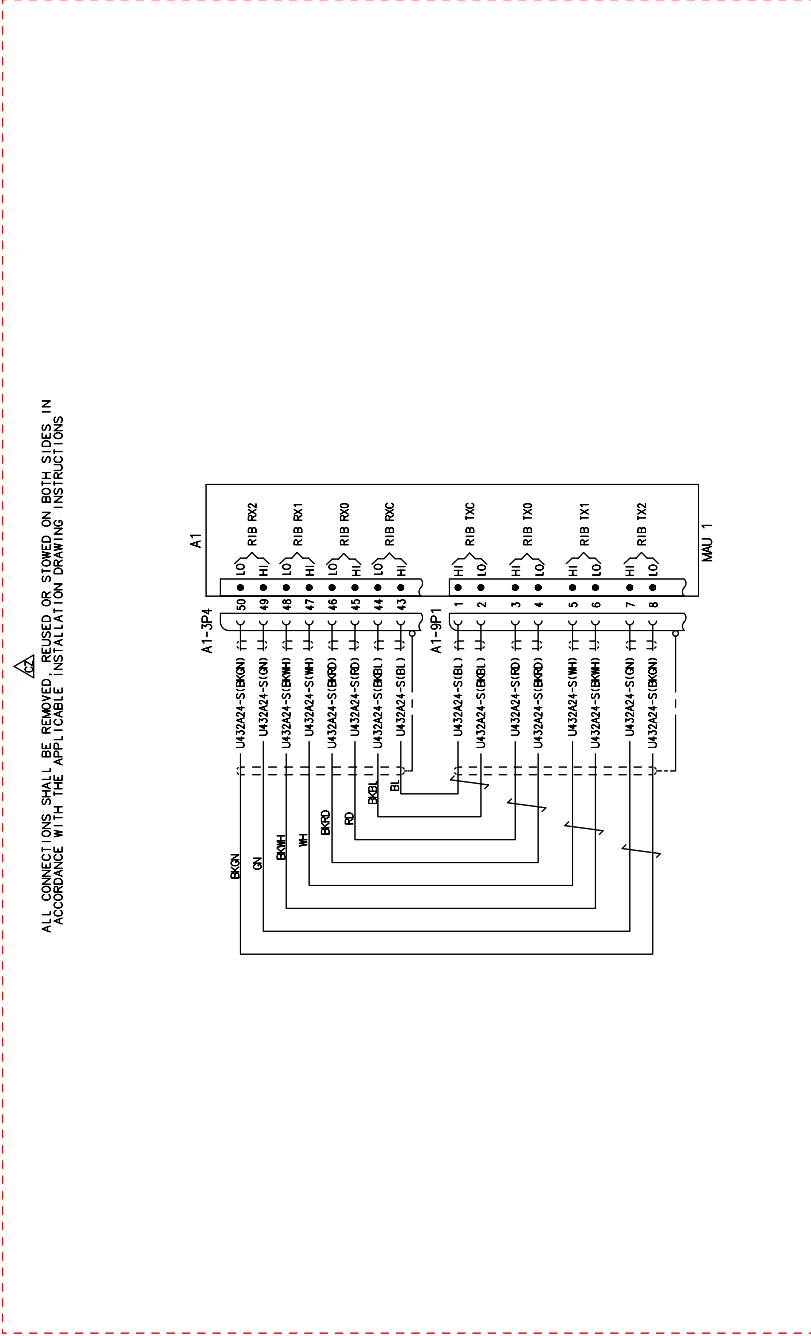
DIGITAL MAP SKYFORCE ELECTRICAL PROVISION
(SHEET 4)

FUNCTIONAL NOTES
ALL CABLES ARE IN LOGN C14294 UNLESS SPECIFIED
ALL CABLES ARE OF TYPE ASS6AT 22 UNLESS SPECIFIED

Figure 16

DRAWING REF. KEY

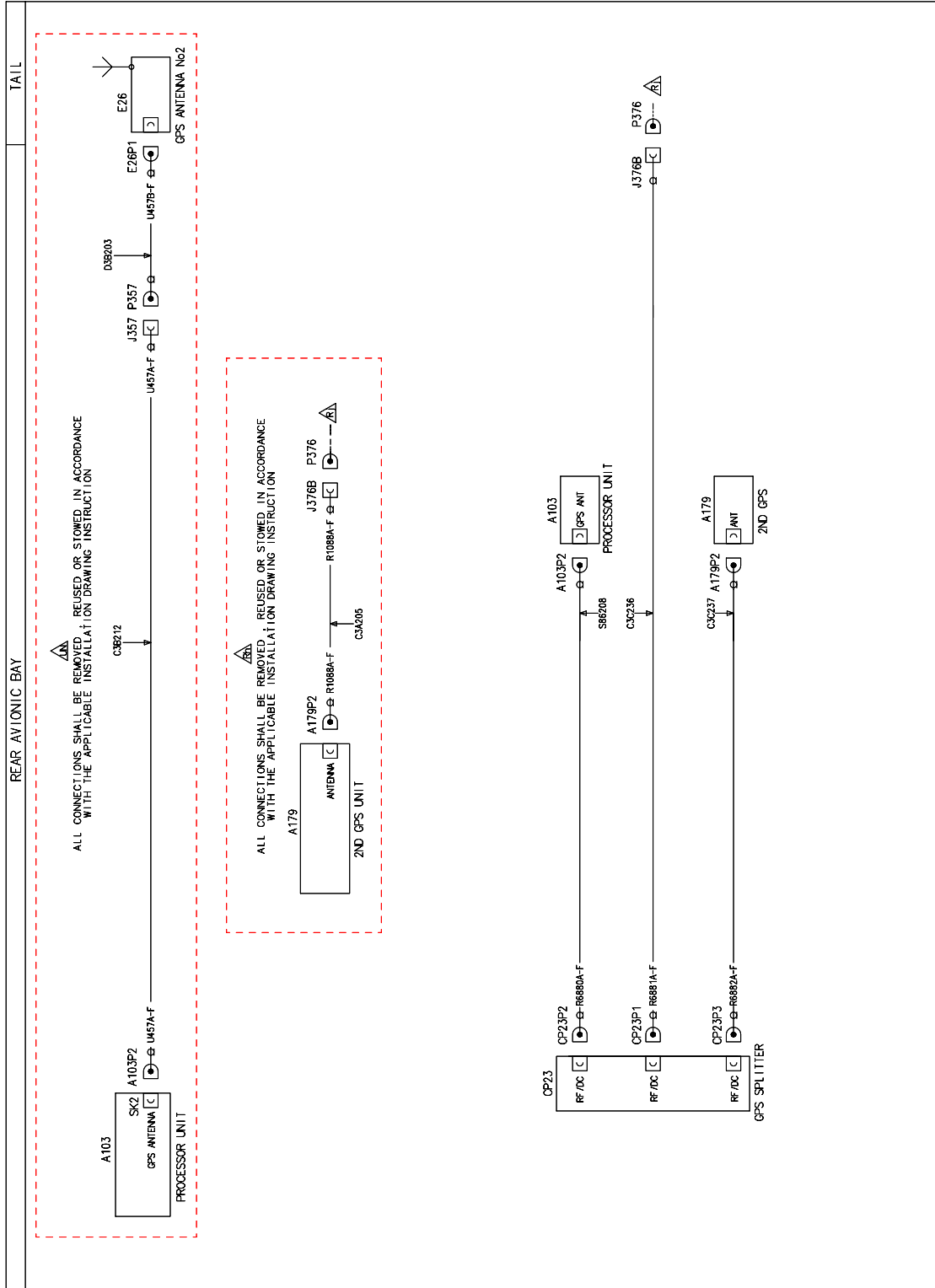
VIDEO MODULE INTERFACE
365119002**



DIGITAL MAP SKYFORCE ELECTRICAL PROVISION
(SHEET 5)

FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM ROUTE C2A122 UNLESS SPECIFIED
ALL CABLES ARE OF TYPE D100-082402101 UNLESS SPECIFIED

Figure 17



DRAWING REF. KEY

- 2ND GPS 3634600101**
- 2ND ANTENNA GPS 3634600131**
- DIGITAL MAP READER 3631100011**

3G9306P01511
DMAP SKYFORCE AND GPS VARIANT EL. PROVISION
(SHEET 1)

FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM C3235 UNLESS SPECIFIED
ALL CABLES ARE OF TYPE S3311 UNLESS SPECIFIED

Figure 18

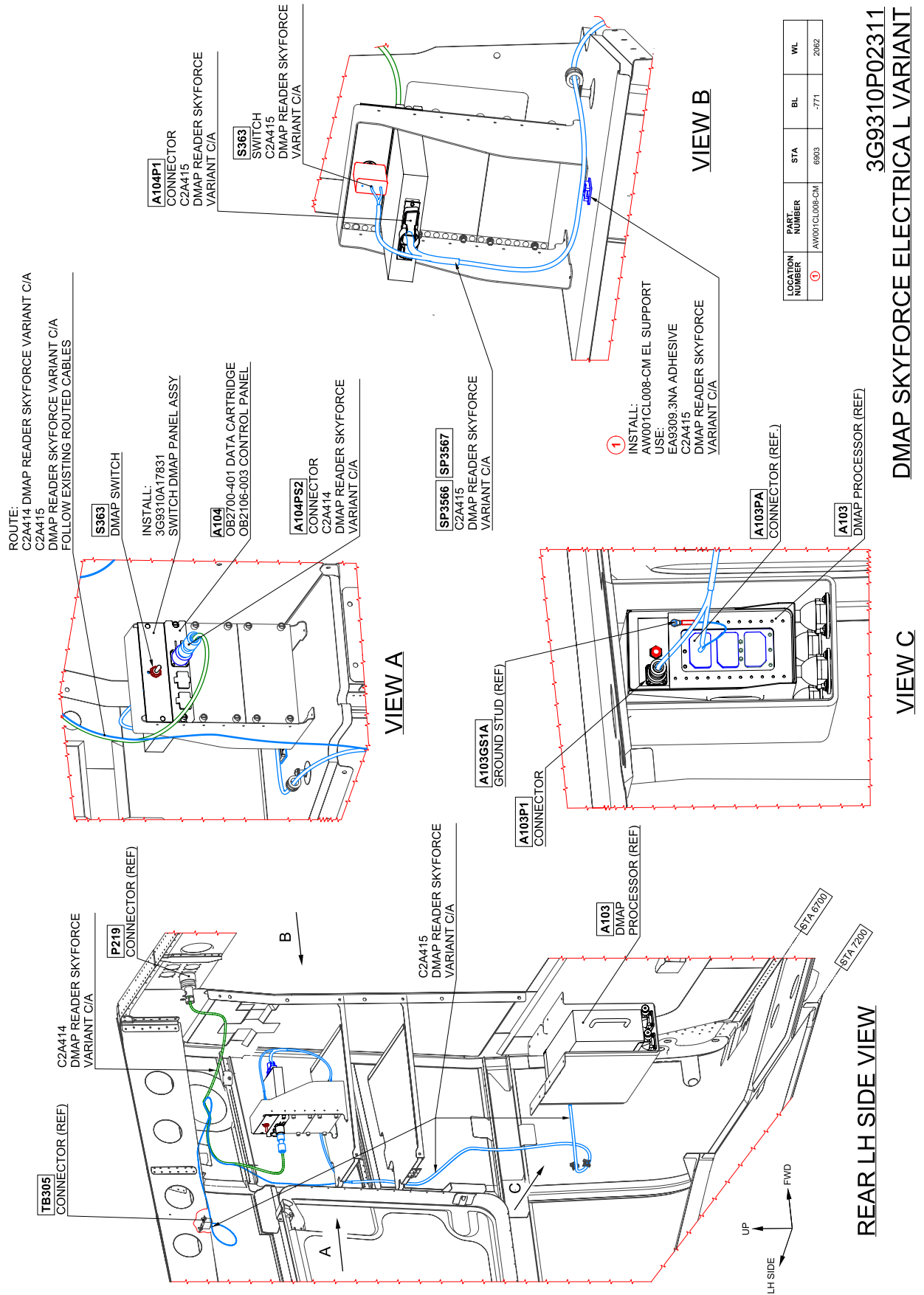
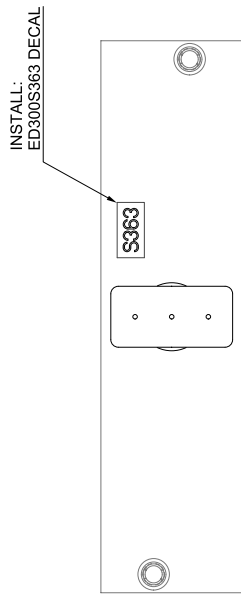
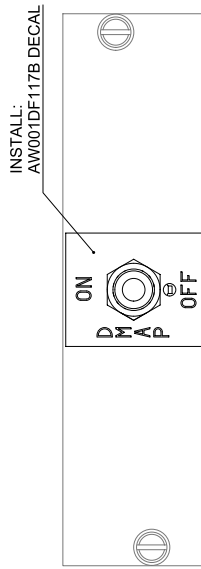


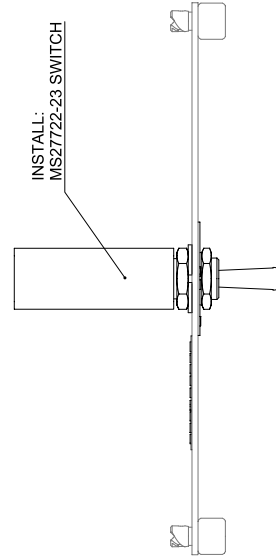
Figure 20



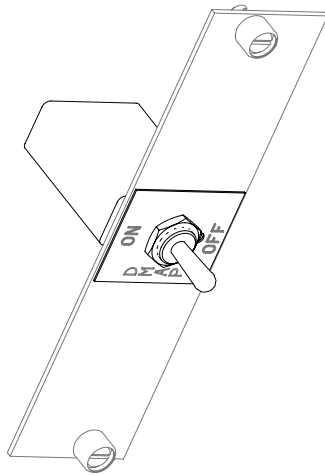
BACK VIEW



FRONT VIEW



LATERAL VIEW



**3G9310A17831
SWITCH DMAP PANEL ASSY**

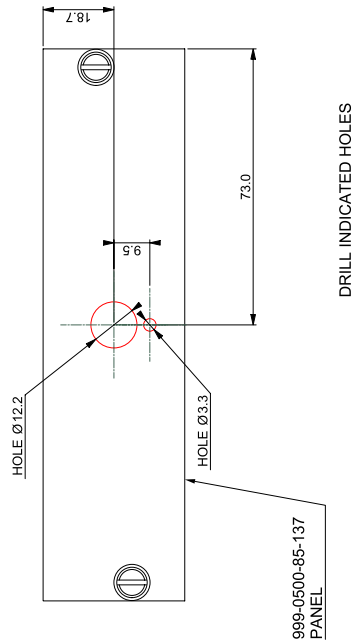
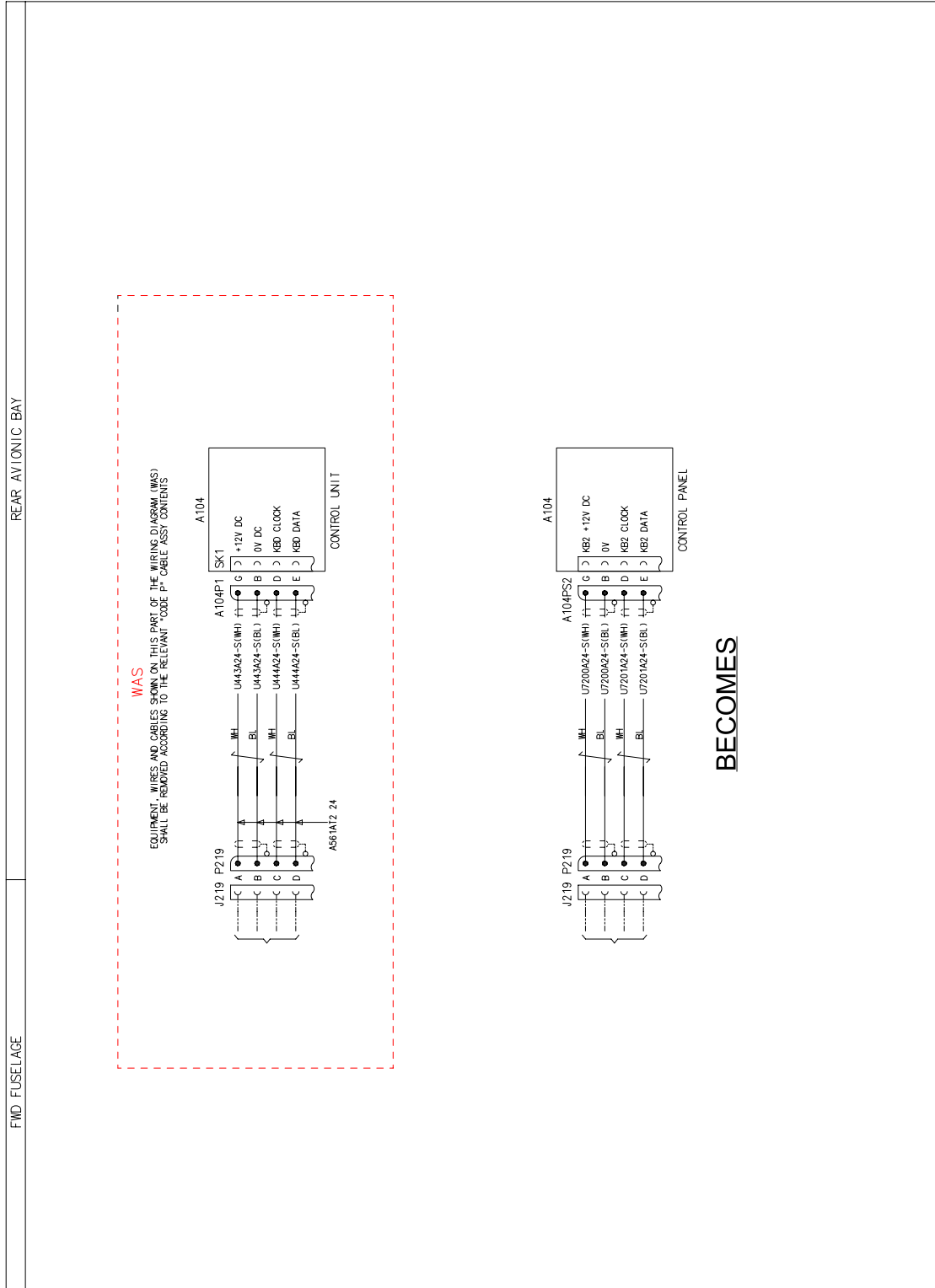


Figure 21



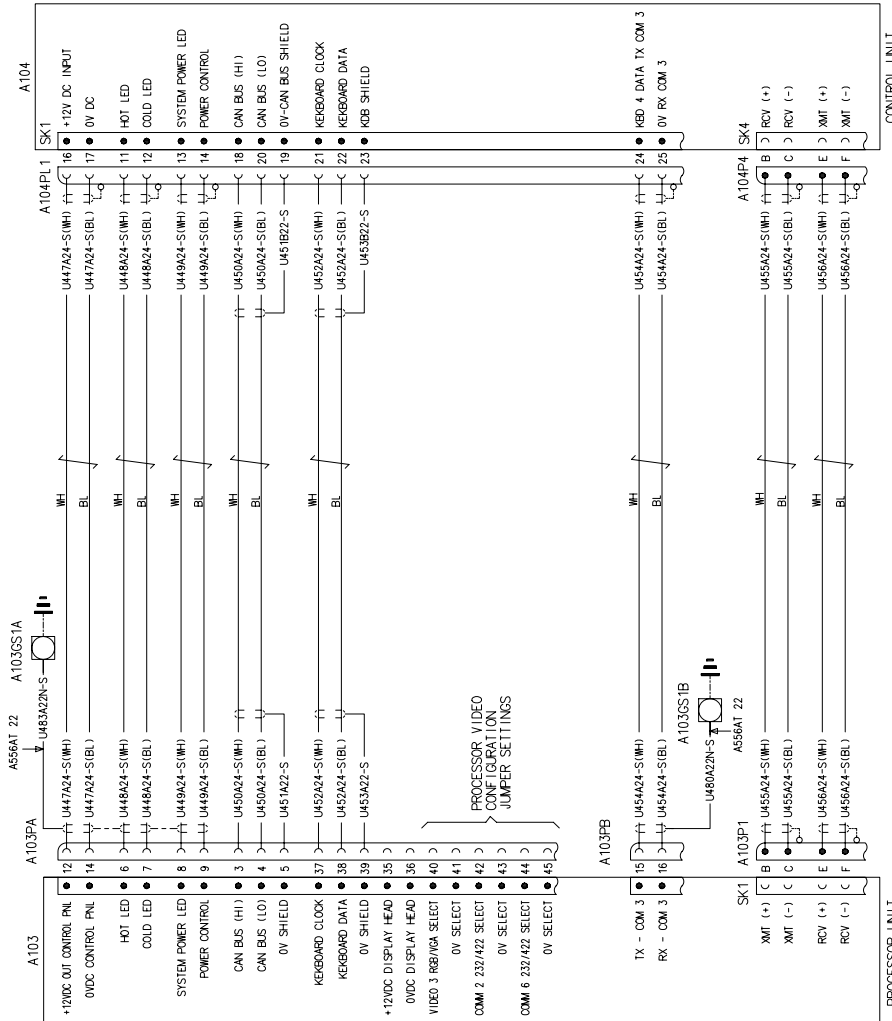
FUNCTIONAL NOTES

ALL CABLES ARE IN LOOM C24A14, UNLESS SPECIFIED.
ALL CABLES ARE OF TYPE A661A12 24, UNLESS SPECIFIED.

Figure 22

REAR AVIONIC BAY

WAS
EQUIPMENT, WIRES, AND CABLES SHOWN ON THIS PART OF THE WIRING DIAGRAM (WAS)
SHALL BE REMOVED ACCORDING TO THE RELEVANT "CODE P" CABLE ASSY CONTENTS

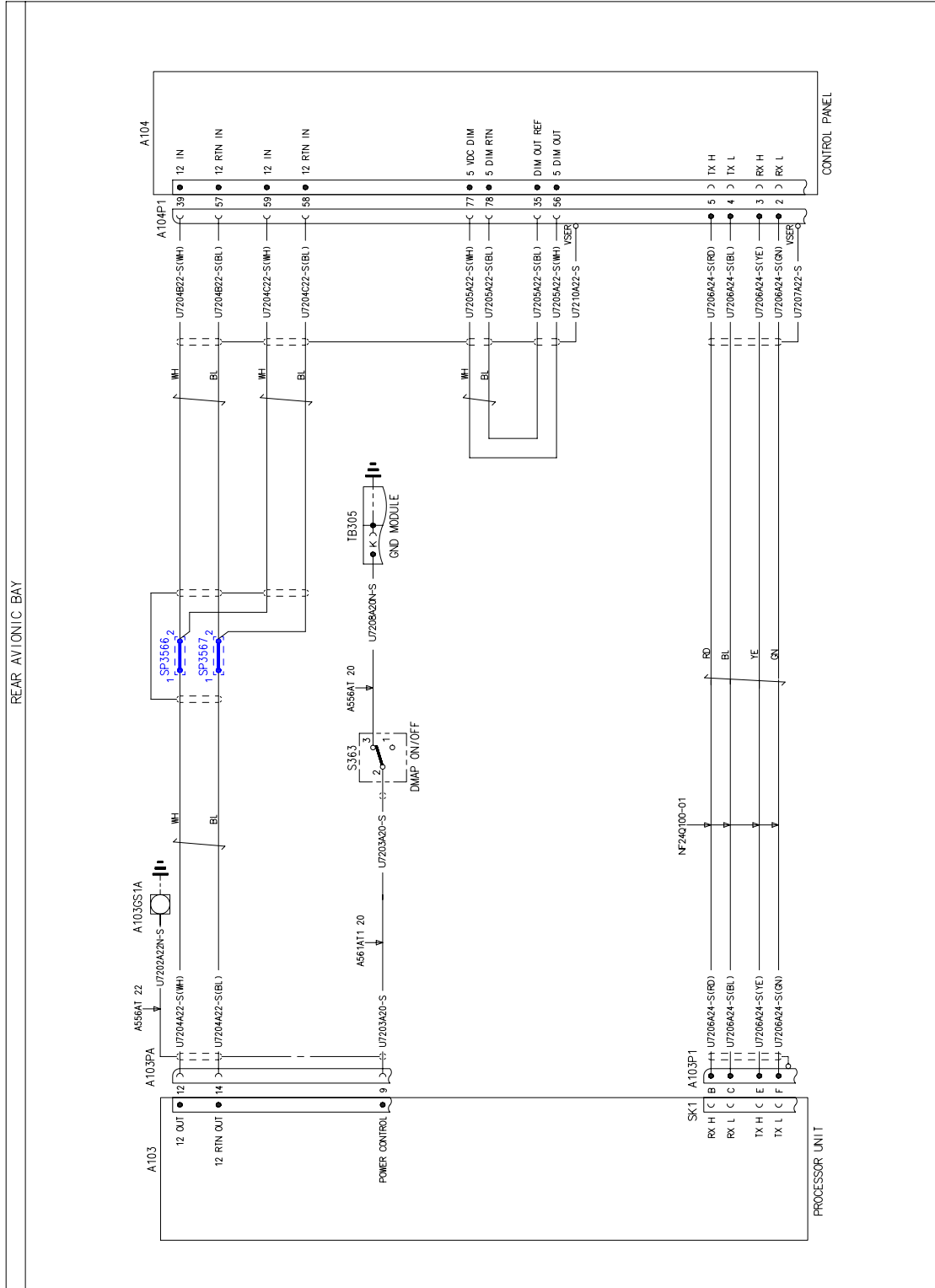


3G9310P02311
DMAP READER SKYFORCE VARIANT
(SHEET 2)

FUNCTIONAL NOTES

ALL CABLES ARE IN LOOM C2P6 UNLESS SPECIFIED.
ALL CABLES ARE OF TYPE AS9142/24 UNLESS SPECIFIED

Figure 23



FUNCTIONAL NOTES

ALL CABLES ARE IN LOOM C24415 UNLESS SPECIFIED.
ALL CABLES ARE OF TYPE A661A22 UNLESS SPECIFIED.

Figure 24

Please send to the following address: LEONARDO S.p.A. CUSTOMER SUPPORT & SERVICES - ITALY PRODUCT SUPPORT ENGINEERING & LICENSES DEPT. Via Giovanni Agusta, 520 21017 Cascina Costa di Samarate (VA) - ITALY Tel.: +39 0331 225036 Fax: +39 0331 225988	SERVICE BULLETIN COMPLIANCE FORM	Date:
Number:		
Revision:		

Customer Name and Address:	Telephone:
	Fax:
	B.T. Compliance Date:

Helicopter Model	S/N	Total Number	Total Hours	T.S.O.

Remarks:

Information:

We request your cooperation in filling this form, in order to keep out statistical data relevant to aircraft configuration up-to-date. The form should be filled in all its parts and sent to the above address or you can communicate the application also via Technical Bulletin Application Communication Section placed in Leonardo AW Customer Portal - MyCommunications Area. We thank you beforehand for the information given.