
SERVICE BULLETIN

N° **139-720**

OPTIONAL

DATE: April 22, 2024

REV. : /

TITLE

**ATA 33 – HELICOPTER EMERGENCY EXIT LIGHTS SYSTEM (HEELS) KIT
P/N 4G3350F00111 INSTALLATION**

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

AW139 helicopter S/N 31363.

B. COMPLIANCE

At Customer's option.

C. CONCURRENT REQUIREMENTS

N.A.

D. REASON

This Service Bulletin is issued in order to provide the necessary instructions on how to perform the installation of the kit HEELS P/N 4G3350F00111.

Leonardo Helicopters (LH) issued this SB for the following reason:

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

E. DESCRIPTION

The function of the Helicopter Emergency Exit Lights System (HEELS) is to provide identification of all the emergency exits when the cabin becomes submerged (partially or completely), as a consequence of ditching. The kit is activated automatically by eight (8) water sensors.

The light assemblies, installed in correspondence of the helicopter doors and windows, are supplied by five batteries.

This Service Bulletin provides the necessary instructions to perform the HEELS installation P/N 4G3350A00111.

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 Leonardo Helicopters (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, approximately thirty (30) MMH are deemed necessary.

MMH are based on hands-on time and can change with helicopter configuration, 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

WEIGHT (kg)	ARM (mm)	MOMENT (kg-mm)
		8.5
LONGITUDINAL BALANCE	3745	31832.5
LATERAL BALANCE	17	144.5

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 safety – Pre-operation (make helicopter safe for 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-A-20-10-08-00A-622A-A	Electrical contacts – Crimp	-
DM05 39-A-25-82-17-00A-520A-A	Left cabin door lining panel – Remove procedure	-

<u>DATA MODULE</u>	<u>DESCRIPTION</u>	<u>PART</u>
DM06	39-A-25-82-17-00A-720A-A Left cabin door lining panel – Install procedure	-
DM07	39-A-25-82-18-00A-520A-A Right cabin door lining panel – Remove procedure	-
DM08	39-A-25-82-18-00A-720A-A Right cabin door lining panel – Install procedure	-
DM09	39-B-33-52-00-00A-340A-K Emergency exit lighting system – Function test	-
DM10	39-B-33-52-01-00A-921A-K Left cockpit door light – Replacement	-
DM11	39-B-33-52-02-00A-921A-K Left cockpit door light support – Replacement	-
DM12	39-B-33-52-03-00A-921A-K Left cockpit door light wiring cover – Replacement	-
DM13	39-B-33-52-04-00A-921A-K Left cockpit door light battery pack – Replacement	-
DM14	39-B-33-52-05-00A-921A-K Left cockpit door light power supply – Replacement	-
DM15	39-B-33-52-06-00A-921A-K Right cockpit door light – Replacement	-
DM16	39-B-33-52-07-00A-921A-K Right cockpit door light support – Replacement	-
DM17	39-B-33-52-08-00A-921A-K Right cockpit door light wiring cover – Replacement	-
DM18	39-B-33-52-09-00A-921A-K Right cockpit door light battery pack – Replacement	-
DM19	39-B-33-52-10-00A-921A-K Right cockpit door light power supply – Replacement	-
DM20	39-B-33-52-11-00A-921A-K Left cabin window light – Replacement	-
DM21	39-B-33-52-12-00A-921A-K Right cabin window light – Replacement	-
DM22	39-B-33-52-13-00A-921A-K Cabin window battery pack – Replacement	-
DM23	39-B-33-52-14-00A-921A-K Cabin window power supply – Replacement	-
DM24	39-B-33-52-15-00A-921A-K Left cabin door light – Replacement	-
DM25	39-B-33-52-16-00A-921A-K Left cabin door battery pack – Replacement	-
DM26	39-B-33-52-17-00A-921A-K Left cabin door power supply – Replacement	-
DM27	39-B-33-52-18-00A-921A-K Right cabin door light – Replacement	-
DM28	39-B-33-52-19-00A-921A-K Right cabin door battery pack – Replacement	-
DM29	39-B-33-52-20-00A-921A-K Right cabin door power supply – Replacement	-

<u>DATA MODULE</u>	<u>DESCRIPTION</u>	<u>PART</u>
DM30 39-A-52-11-01-00A-520A-A	Left cockpit door – Remove procedure	-
DM31 39-A-52-11-01-00A-720A-A	Left cockpit door – Install procedure	-
DM32 39-A-52-11-02-00A-520A-A	Right cockpit door – Remove procedure	-
DM33 39-A-52-11-02-00A-720A-A	Right cockpit door – Install procedure	-

Following Data Modules refer to CSRP:

<u>DATA MODULE</u>	<u>DESCRIPTION</u>	<u>PART</u>
DM34 CSRP-A-51-42-00-00A-720A-D	Potted Inserts – Install procedure	-

I.2 ACRONYMS & ABBREVIATIONS

AMDI	Aircraft Material Data Information
AMP	Aircraft Maintenance Publication
AR	As Required
C/A	Cable Assy
CSRP	Common Structural Repair Publication
DM	Data Module
DOA	Design Organization Approval
EASA	European Union Aviation Safety Agency
IPD	Illustrated Parts Data Publication
ITEP	Illustrated Tools and Equipment Publication
LH / LHS	Left Hand
MMH	Maintenance Man Hours
N.A.	Not Applicable
P/N	Part Number
RH / RHS	Right Hand
SB	Service Bulletin
S/N	Serial Number

I.3 ANNEX

N.A.

J. PUBLICATIONS AFFECTED

N.A.

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	4G3350F00111		KIT HEELS	REF	.		-
2	4G3350A00111		HEELS INSTALLATION	REF	..		-
3	3G3350A00111		HEELS light assy	2	...		139-720L1
4	3G3350A00211		HEELS light assy	2	...		139-720L1
5	3G3350A00311		HEELS light assy	2	...		139-720L1
6	3G3350A00411		HEELS light assy	2	...		139-720L1
7	3G3350A00511		HEELS light assy	2	...		139-720L1
8	3G3350A00611		HEELS light assy	2	...		139-720L1
9	3G3350A00911		HEELS light assy	5	...		139-720L1
10	3G3350A01011		HEELS light assy	2	...		139-720L1
11	3G3350A01111		HEELS light assy	2	...		139-720L1
12	3G3350A01211		HEELS light assy	2	...		139-720L1
13	3G3350A01311		HEELS light assy	2	...		139-720L1
14	3G3350A01411		HEELS light assy	2	...		139-720L1
15	3G3350A01511		HEELS light assy	3	...		139-720L1
16	3G3350A01611		HEELS light assy	2	...		139-720L1
17	3G3350A01711		Power supply assy	5	...		139-720L1
18	3G3350A01811		Battery assy	5	...		139-720L1
19	001751-102-00	A522A02A	Mounting rail	5	...		139-720L1
20	001755-105-02	A593A-A05	Module junction	5	...		139-720L1
21	3G5310A09211		HEELS STRUCTURAL PROVISION	REF	...		-
22	3G3350A01631		HEELS support assy LHS	1	....	(1)	-
23	3G3350A01931		HEELS support assy RHS	1	....	(1)	-
24	3G3350V00351		Mounting bracket	2	....		139-720L1
25	3G5310A09451		Protection LHS	1	....	(1)	-
26	3G5310A09551		Protection RHS	1	....	(1)	-
27	3G5310A09651		Spacer	4	....		139-720L1
28	A414A02V209E1		Support	2	....		139-720L1
29	A428A08C09		Screw	4	....		139-720L1
30	A428A3C07		Screw	14	....		139-720L1
31	MS27039-1-07		Screw	4	....		139-720L1
32	MS35207-260		Screw	8	....		139-720L1
33	NAS1149D0316J		Washer	8	....		139-720L1
34	NAS1832-3-5		Insert	4	....		139-720L1
35	NAS1836C06-13M		Insert	6	....		139-720L1
36	NAS1836C08-13M		Insert	6	....		139-720L1
37	NAS1836C3-13M		Insert	24	....		139-720L1
38	3G5310A09751		Bracket	4	...		139-720L1
39	3G9A01A26401		HEEL lights C/A (A1A264)	1	...		139-720L1
40	3G9A01B27501		HEEL lights C/A (A1B275)	1	...		139-720L1
41	3G9B01A29801	3G9B01A29801A10R	HEEL lights C/A (B1A298)	1	...		139-720L1
42	3G9B01A30001		HEEL lights C/A (B1A300)	1	...		139-720L1

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
43	3G9B01B29801	4G3350A00112A1R	HEEL lights C/A (B1B298)	1	...		139-720L1
44	3G9B01B32601		HEEL lights C/A (B1B326)	1	...		139-720L1
45	3G9B01B30001		HEEL lights C/A (B1B300)	1	...		139-720L1
46	A523A-B02		Electrical Contact	6	...		139-720L1
47	A366A3E12C		Stud	2	...		139-720L1
48	A596A04		Junction	4	...		139-720L1
49	A630A31	AW001CL000A-X3	Support	16	...		139-720L1
50	A630A3BT	AW001TL3A08T	Support	2	...		139-720L1
51	A630A51	AW001CL001-N6	Support	7	...		139-720L1
52	AW001CL504B-N6		Support	2	...		139-720L1
53	ED300A112		Decal	1	...		139-720L1
54	ED300A118		Decal	1	...		139-720L1
55	ED300BT3		Decal	1	...		139-720L1
56	ED300BT4		Decal	1	...		139-720L1
57	ED300BT5		Decal	1	...		139-720L1
58	ED300BT6		Decal	1	...		139-720L1
59	ED300BT7		Decal	1	...		139-720L1
60	ED300DS100		Decal	1	...		139-720L1
61	ED300DS61		Decal	1	...		139-720L1
62	ED300DS62		Decal	1	...		139-720L1
63	ED300DS63		Decal	1	...		139-720L1
64	ED300DS64		Decal	1	...		139-720L1
65	ED300DS65		Decal	1	...		139-720L1
66	ED300DS66		Decal	1	...		139-720L1
67	ED300DS67		Decal	1	...		139-720L1
68	ED300DS68		Decal	1	...		139-720L1
69	ED300DS69		Decal	1	...		139-720L1
70	ED300DS70		Decal	1	...		139-720L1
71	ED300DS71		Decal	1	...		139-720L1
72	ED300DS72		Decal	1	...		139-720L1
73	ED300DS73		Decal	1	...		139-720L1
74	ED300DS74		Decal	1	...		139-720L1
75	ED300DS75		Decal	1	...		139-720L1
76	ED300DS76		Decal	1	...		139-720L1
77	ED300DS77		Decal	1	...		139-720L1
78	ED300DS78		Decal	1	...		139-720L1
79	ED300DS79		Decal	1	...		139-720L1
80	ED300DS80		Decal	1	...		139-720L1
81	ED300DS81		Decal	1	...		139-720L1
82	ED300DS82		Decal	1	...		139-720L1
83	ED300DS83		Decal	1	...		139-720L1
84	ED300DS84		Decal	1	...		139-720L1
85	ED300DS85		Decal	1	...		139-720L1
86	ED300DS86		Decal	1	...		139-720L1
87	ED300DS87		Decal	1	...		139-720L1
88	ED300DS88		Decal	1	...		139-720L1
89	ED300DS89		Decal	1	...		139-720L1
90	ED300DS90		Decal	1	...		139-720L1
91	ED300DS91		Decal	1	...		139-720L1
92	ED300DS92		Decal	1	...		139-720L1

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
93	ED300DS93		Decal	1	...		139-720L1
94	ED300DS95		Decal	1	...		139-720L1
95	ED300DS96		Decal	1	...		139-720L1
96	ED300DS97		Decal	1	...		139-720L1
97	ED300DS98		Decal	1	...		139-720L1
98	ED300DS99		Decal	1	...		139-720L1
99	ED300G3		Decal	1	...		139-720L1
100	ED300G4		Decal	1	...		139-720L1
101	ED300G5		Decal	1	...		139-720L1
102	ED300G6		Decal	1	...		139-720L1
103	ED300G7		Decal	1	...		139-720L1
104	ED300J283		Decal	1	...		139-720L1
105	ED300J284		Decal	1	...		139-720L1
106	ED300S111		Decal	1	...		139-720L1
107	ED300S112		Decal	1	...		139-720L1
108	ED300S113		Decal	1	...		139-720L1
109	ED300S114		Decal	1	...		139-720L1
110	ED300S115		Decal	1	...		139-720L1
111	ED300S117		Decal	1	...		139-720L1
112	ED300S118		Decal	1	...		139-720L1
113	ED300S119		Decal	1	...		139-720L1
114	ED300TB1017		Decal	1	...		139-720L1
115	ED300TB1018		Decal	1	...		139-720L1
116	ED300TB157		Decal	1	...		139-720L1
117	ED300TB158		Decal	1	...		139-720L1
118	ED300TB186		Decal	1	...		139-720L1
119	ED300TB2047		Decal	1	...		139-720L1
120	ED300TB2048		Decal	1	...		139-720L1
121	ED300TB2049		Decal	1	...		139-720L1
122	ED300TB2054		Decal	1	...		139-720L1
123	ED300TB263		Decal	1	...		139-720L1
124	ED300TB264		Decal	1	...		139-720L1
125	ED300TB265		Decal	1	...		139-720L1
126	M85049/95-12A-A		Connector mounting device	2	...		139-720L1
127	MS21042L08		Nut	2	...		139-720L1
128	MS21043-3		Nut	2	...		139-720L1
129	MS21919WDG3	AS21919WDG03	Clamp	1	...		139-720L1
130	MS21919WDG4	AS21919WDG04	Clamp	4	...		139-720L1
131	MS21919WDG5	AS21919WDG05	Clamp	4	...		139-720L1
132	MS21919WDG6	AS21919WDG06	Clamp	1	...		139-720L1
133	MS21919WDG7	AS21919WDG07	Clamp	1	...		139-720L1
134	MS3339-3-9	AW001CL510C-N6	Support	2	...		139-720L1
135	MS35206-216		Screw	8	...		139-720L1
136	MS35206-225		Screw	10	...		139-720L1
137	MS35206-243		Screw	2	...		139-720L1
138	MS35207-259		Screw	12	...		139-720L1
139	MS9592-010		Bracket	2	...		139-720L1
140	NAS1149D0316K		Washer	12	...		139-720L1
141	NAS1149D0332J		Washer	6	...		139-720L1
142	NAS1149D0416J		Washer	8	...		139-720L1

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
143	NAS1149DN816J		Washer	2	...		139-720L1
144	NAS1801-3-8		Screw	2	...		139-720L1
145	NAS1802-3-20		Screw	1	...		139-720L1
146	NAS43DD3-15N		Spacer	2	...		139-720L1
147	NAS43DD3-44	NAS43DD3-44N	Spacer	1	...		139-720L1
148	3G2580A00115		PASSENGERS CABIN LINERS INSTALLATION HEELS	REF	...		-
149	3G2580A26531		Window liner assy LH upper	1	....	(1)	-
150	3G2580A26631		Window liner assy RH upper	1	....	(1)	-
151	3G3350A02032		Cabin door lining panel assy RH	1	....	(1)	-
152	3G3350A02132		Cabin door lining panel assy LH	1	....	(1)	-
153	999-0056-13-90	AW017TY31T081S	Washer	2	....		139-720L1
154	A864A0673A020T		Shim	4	....		139-720L1
155	AN525-10R11		Screw	2	....		139-720L1
156	AN525-10R12		Screw	6	....		139-720L1
157	AN525-10R9		Screw	2	....		139-720L1
158	AN525-832R6		Screw	10	....		139-720L1
159	MS27039-1-12		Screw	8	....		139-720L1

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./LH CODE NUMBER	DESCRIPTION	Q.TY	NOTE	PART
160	MMM-A-132, Type II, Class 2 199-05-002 Type I, Class 2	Adhesive EA9309.3NA (C021)	AR	(2)	-
161	MMM-A-132, Type I, Class 3 199-05-002 Type II, Class 2	Adhesive EA934NA (C057)	AR	(2)	-
162	A236AXXAB	Edging	AR	(3)	-
163	EN6049-006-XX-5	Tubing braided	AR	(2) (4)	-
164	Commercial	Adhesive tape	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
139-720L1	1		
3G3350A01631	1	(1)	
3G3350A01931	1	(1)	
3G5310A09451	1	(1)	-
3G5310A09551	1	(1)	
3G2580A26531	1	(1)	
3G2580A26631	1	(1)	

LOGISTIC P/N	Q.TY (PER HELO)	NOTE	PART
3G3350A02032	1	(1)	
3G3350A02132	1	(1)	-

NOTES

- (1) This P/N depends upon helicopter internal painting and may be supplied as a production P/N ending with suffix -A or -CS01 or any combination of letters or numbers.
- (2) Item to be procured as local supply.
- (3) Item to be ordered in q.ty 1.2 m or multiples. The XX digits (01, 02, 03 or 04) of P/N A236AXXAB can be different based on the actual helicopter configuration.
- (4) The XX digits can vary depending on the actual helicopter configuration.

B. SPECIAL TOOLS

Refer to ITEP for the special tools required to comply with the AMP DMs referenced in the accomplishment instructions.

SPECIAL TOOLS NOTES

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 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 applicable steps of AMP DM 39-A-25-82-17-00A-520A-A, remove the existing cabin door lining panel assy LH from the cabin door LH.
 3. In accordance with applicable steps of AMP DM 39-A-25-82-18-00A-520A-A, remove the existing cabin door lining panel assy RH from the cabin door RH.

4. In accordance with AMP DM 39-A-06-41-00-00A-010A-A and with reference to Figures 1 and 8, remove the existing window liner assy LH upper, the existing window liner assy RH upper and the other internal liners as required to gain access to the area affected by the installation.
5. In accordance with AMP DM 39-A-06-41-00-00A-010A-A and with reference to Figures 1 and 8, remove all external panels and internal panels as required to gain access to the area affected by the installation.
6. With reference to Figures 1 thru 7, perform the HEELS structural provision P/N 3G5310A09211 as described in the following procedure:
 - 6.1 In accordance with AMP DM 39-A-52-11-01-00A-520A-A, remove the left cockpit door from the helicopter.
 - 6.2 Put the left cockpit door on an applicable work table.

NOTE

If present, remove the pocket cover from the left cockpit door. Retain for later reuse.

- 6.3 Remove the LH pocket P/N 3G2510L00631 from the left cockpit door with the related hardware. Retain for later reuse.
- 6.4 With reference to Figure 1 Iso View, Figure 4 View E and Section F-F, remove and discard the two screws (if installed) from the two existing inserts.
- 6.5 With reference to Figure 2 View A, temporarily locate the HEELS support assy LH P/N 3G3350A01631 on the left pilot door panel and countermark the positions of n°5 insert holes.
- 6.6 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figures 2 View A and 3 Detail D, drill n°5 holes $\varnothing 11.48 \pm 11.61$ in the previously countermarked positions and install n°5 inserts P/N NAS1836C3-13M on the left pilot door panel by means of adhesive EA934NA (C057).
- 6.7 In accordance with applicable steps of AMP DM 39-B-33-52-02-00A-921A-K and with reference to Figure 3 Section C-C, install the HEELS support assy LH P/N 3G3350A01631 by means of n°7 screws P/N A428A3C07.
- 6.8 With reference to Figure 4 View G, temporarily locate the protection LH P/N 3G5310A09451 on the left pilot door panel and countermark the positions of n°2 insert holes.
- 6.9 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 4 Section H-H, drill n°2 holes $\varnothing 11.48-11.61$ in the previously countermarked positions and install n°2 inserts P/N NAS1836C08-13M by means of adhesive EA934NA (C057).

- 6.10 In accordance with applicable steps of AMP DM 39-B-33-52-03-00A-921A-K and reference to Figure 4 View G and Section H-H, install the protection LH P/N 3G5310A09451 by means of n°2 screws P/N A428A08C09 and n°2 spacers P/N 3G5310A09651.
- 6.11 With reference to Figure 4 View G, temporarily locate the bracket P/N 3G5310A09751 on the left pilot door panel and countermark the positions of n°3 insert holes.
- 6.12 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 4 Section J-J, drill n°3 holes $\varnothing 11.48 \div 11.61$ in the previously countermarked positions and install n°3 inserts P/N NAS1836C3-13M by means of adhesive EA934NA (C057).
- 6.13 With reference to Figure 4 View G, temporarily locate the rail P/N 001751-102-00 on the left pilot door panel and countermark the positions of n°2 insert holes.
- 6.14 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 4 View G, drill n°2 holes $\varnothing 11.48 \div 11.61$ in the previously countermarked positions and install n°2 inserts P/N NAS1836C06-13M by means of adhesive EA934NA (C057).
- 6.15 In accordance with AMP DM 39-A-52-11-02-00A-520A-A, remove the right cockpit door from the helicopter.
- 6.16 Put the right cockpit door on an applicable work table.

NOTE

If present, remove the pocket cover from the right cockpit door. Retain for later reuse.

- 6.17 Remove the RH pocket P/N 3G2510L00731 from the right cockpit door with the related hardware. Retain for later re-use.
- 6.18 With reference to Figure 1 Iso View, Figure 3 View E and Section F-F, remove and discard the two screws (if installed) from the two existing inserts.
- 6.19 With reference to Figure 2 View A, temporarily locate the HEELS support assy RH P/N 3G3350A01931 on the right pilot door panel and countermark the positions of n°5 insert holes.
- 6.20 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figures 2 View A and 3 Detail D, drill n°5 holes $\varnothing 11.48 \div 11.61$ in the previously countermarked positions and install n°5 inserts P/N NAS1836C3-13M on the right pilot door panel by means of adhesive EA934NA (C057).

- 6.21 In accordance with applicable steps of AMP DM 39-B-33-52-07-00A-921A-K and with reference to Figure 3 Section C-C, install the HEELS support assy RH P/N 3G3350A01931 by means of n°7 screws P/N A428A3C07.
- 6.22 With reference to Figure 4 View G, temporarily locate the protection RH P/N 3G5310A09551 on the right pilot door panel and countermark the positions of n°2 insert holes.
- 6.23 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 4 Section H-H, drill n°2 holes \varnothing 11.48-11.61 in the previously countermarked positions and install n°2 inserts P/N NAS1836C08-13M by means of adhesive EA934NA (C057).
- 6.24 In accordance with applicable steps of AMP DM 39-B-33-52-08-00A-921A-K and reference to Figure 4 View G and Section H-H, install the protection LH P/N 3G5310A09551 by means of n°2 screws P/N A428A08C09 and n°2 spacers P/N 3G5310A09651.
- 6.25 With reference to Figure 4 View G, temporarily locate the bracket P/N 3G5310A09751 on the right pilot door panel and countermark the positions of n°3 insert holes.
- 6.26 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 4 Section J-J, drill n°3 holes \varnothing 11.48÷11.61 in the previously countermarked positions and install n°3 inserts P/N NAS1836C3-13M by means of adhesive EA934NA (C057).
- 6.27 With reference to Figure 4 View G, temporarily locate the rail P/N 001751-102-00 on the right pilot door panel and countermark the positions of n°2 insert holes.
- 6.28 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 4 View G, drill n°2 holes \varnothing 11.48÷11.61 in the previously countermarked positions and install n°2 inserts P/N NAS1836C06-13M by means of adhesive EA934NA (C057).
- 6.29 With reference to Figure 5 View S and Section W-W, temporarily locate the mounting bracket P/N 3G3350V00351 on forward lower panel and countermark the positions of n°4 insert holes.
- 6.30 In accordance to CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 5 Section W-W, drill n°4 holes \varnothing 11.48÷11.61 in the previously countermarked positions and install n°4 inserts P/N NAS1836C3-13M by means of adhesive EA934NA (C057).
- 6.31 With reference to Figure 5 View S and Section AA-AA, countermark the positions of n°2 insert holes on the forward lower panel.

- 6.32 In accordance to CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 5 Section AA-AA, drill n°2 holes \varnothing 11.48÷11.61 in the previously countermarked positions and install n°2 inserts P/N NAS1836C08-13M by means of adhesive EA934NA (C057).
- 6.33 With reference to Figure 5 Section W-W, install the mounting bracket P/N 3G3350V00351 by means of n°4 screws P/N MS35207-260 and n°4 washers P/N NAS1149D0316J.
- 6.34 With reference to Figure 6 Detail U and Section AB-AB, temporarily locate the mounting bracket P/N 3G3350V00351 on side panel RH P/N 3P5337A00231 and countermark the positions of n°4 insert holes.
- 6.35 In accordance to CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 6 Section AB-AB, drill n°4 holes \varnothing 11.48÷11.61 in the previously countermarked positions and install n°4 inserts P/N NAS1836C3-13M by means of adhesive EA934NA (C057).
- 6.36 With reference to Figure 6 Detail U and Section V-V, temporarily locate the support P/N A414A02V209E1 on side panel RH P/N 3P5337A00231 and countermark the positions of n°2 insert holes.
- 6.37 In accordance to CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 6 Section V-V, drill n°2 holes \varnothing 14.25÷14.38 in the previously countermarked positions and install n°2 inserts P/N NAS1832-3-5 by means of adhesive EA934NA (C057).
- 6.38 With reference to Figure 6 Section AB-AB, install mounting bracket P/N 3G3350V00351 on side panel RH by means of n°4 screws P/N NASM35207-260 and n°4 washers P/N NAS1149D0316J.
- 6.39 With reference to Figure 6 Section V-V, install connector support P/N A414A02V209E1 on side panel RH by means of n°2 screws P/N MS27039-1-07.
- 6.40 With reference to Figure 7 Detail AC and Section AD-AD, temporarily locate the support P/N A414A02V209E1 on side panel LH P/N 3P5335A00231 and countermark the positions of n°2 insert holes.
- 6.41 In accordance to CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 7 Section AD-AD, drill n°2 holes \varnothing 14.25÷14.38 in the previously countermarked positions and install n°2 inserts P/N NAS1832-3-5 by means of adhesive EA934NA (C057).
- 6.42 With reference to Figure 7 Section AD-AD, install connector support P/N A414A02V209E1 on side panel LH by means of n°2 screws P/N MS27039-1-07.

7. With reference to Figures 8 thru 17, perform the HEELS installation P/N 4G3350A00111 as described in the following procedure:
 - 7.1 With reference to Figure 9, install HEELS lights on the cabin door lining panel assy LH P/N 3G3350A02132 as described in the following procedure:
 - 7.1.1 Install rail P/N 001751-102-00 by means of n°2 screws P/N MS35206-225.
 - 7.1.2 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300TB265 in an area adjacent to previously installed rail.
 - 7.1.3 In accordance with applicable steps of AMP DM 39-B-33-52-16-00A-921A-K and DM 39-B-33-52-17-00A-921A-K, install battery pack assy P/N 3G3350A01811, power supply assy P/N 3G3350A01711, clamp P/N MS21919WDG4 and clamp P/N MS21919WDG5 by means of bracket P/N 3G5310A09751, n°3 washers P/N NAS1149D0316K and n°3 screws P/N MS35207-259.
 - 7.1.4 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300G3 and decal P/N ED300BT3 respectively in an area adjacent to previously installed power supply assy and battery pack assy.

NOTE

In case there is not enough room to fix junction P/N A596A04 by means of clamp P/N MS21919WDG5, it is allowed to fix junction P/N A596A04 in a different but suitable position.

- 7.1.5 Fix junction P/N A596A04 by means of clamp P/N MS21919WDG5.
- 7.1.6 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300TB2049 in an area adjacent to previously installed junction.
- 7.1.7 Lay down the HEEL lights C/A P/N 3G9B01A30001 (B1A300).
- 7.1.8 With reference to Figure 9 and Figure 25 wiring diagram, if necessary, install the water sensors S111 and S112 P/N A523A-B02 on the C/A B1A300.
- 7.1.9 In accordance with applicable steps of AMP DM 39-B-33-52-15-00A-921A-K, install the following HEELS lights by means of adhesive EA934NA (C057):
 - n°3 Light assemblies P/N 3G3350A00911;
 - Light assy P/N 3G3350A01011;
 - Light assy P/N 3G3350A01111;

- Light assy P/N 3G3350A01211;
 - Light assy P/N 3G3350A01311;
 - Light assy P/N 3G3350A01411;
 - Light assy P/N 3G3350A01511;
 - Light assy P/N 3G3350A01611.
- 7.1.10 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install the following decals in an area adjacent to previously installed HEELS lights:
- Decal ED300DS71;
 - Decal ED300DS72;
 - Decal ED300DS73;
 - Decal ED300DS74;
 - Decal ED300DS75;
 - Decal ED300DS76;
 - Decal ED300DS77;
 - Decal ED300DS78;
 - Decal ED300DS79;
 - Decal ED300DS80.
- 7.1.11 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300S111 and decal P/N ED300S112 respectively in an area adjacent to water sensors S111 and S112.
- 7.1.12 With reference to Figure 9 and Figure 25 wiring diagram, perform the electrical connections of C/A B1A300 between water sensors S111 and S112, splices SPG3-1 and SPG3-2.
- 7.2 With reference to Figure 10, install HEELS lights on the cabin door lining panel assy RH P/N 3G3350A02032 as described in the following procedure:
- 7.2.1 Install rail P/N 001751-102-00 by means of n°2 screws P/N MS35206-225.
- 7.2.2 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300TB264 in an area adjacent to previously installed rail.
- 7.2.3 In accordance with applicable steps of AMP DM 39-B-33-52-19-00A-921A-K and DM 39-B-33-52-20-00A-921A-K, install battery pack assy P/N 3G3350A01811, power supply assy P/N 3G3350A01711, clamp P/N MS21919WDG4 and clamp P/N MS21919WDG6 by means of bracket P/N 3G5310A09751, n°3 washers P/N NAS1149D0316K and n°3 screws P/N MS35207-259.

- 7.2.4 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300G4 and decal P/N ED300BT4 respectively in an area adjacent to previously installed power supply assy and battery pack assy.

NOTE

In case there is not enough room to fix junction P/N A596A04 by means of clamp P/N MS21919WDG6, it is allowed to fix junction P/N A596A04 in a different but suitable position.

- 7.2.5 Fix junction P/N A596A04 by means of clamp P/N MS21919WDG6.
- 7.2.6 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300TB2048 in an area adjacent to previously installed junction.
- 7.2.7 Lay down the HEEL lights C/A P/N 3G9B01B30001 (B1B300).
- 7.2.8 With reference to Figure 10 and Figure 26 wiring diagram, if necessary, install the water sensor S117 and S118 P/N A523A-B02 on the C/A B1B300.
- 7.2.9 In accordance with applicable steps of AMP DM 39-B-33-52-18-00A-921A-K, install the following HEELS light assemblies by means of adhesive EA934NA (C057):
- n°2 HEELS light assemblies P/N 3G3350A00911;
 - HEELS light assy P/N 3G3350A01011;
 - HEELS light assy P/N 3G3350A01111;
 - HEELS light assy P/N 3G3350A01211;
 - HEELS light assy P/N 3G3350A01311;
 - HEELS light assy P/N 3G3350A01411;
 - n°2 HEELS light assemblies P/N 3G3350A01511;
 - HEELS light assy P/N 3G3350A01611.
- 7.2.10 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install the following decals in an area adjacent to previously installed HEELS lights:
- Decal ED300DS91;
 - Decal ED300DS92;
 - Decal ED300DS93;
 - Decal ED300DS94;
 - Decal ED300DS95;
 - Decal ED300DS96;
 - Decal ED300DS97;

- Decal ED300DS98;
 - Decal ED300DS99;
 - Decal ED300DS100.
- 7.2.11 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300S117 and decal P/N ED300S118 respectively in an area adjacent to water sensors S117 and S118.
- 7.2.12 With reference to Figure 10 and Figure 26 wiring diagram, perform the electrical connections of C/A B1B300 between water sensors S117 and S118, splices SPG4-1 and SPG4-2.
- 7.3 With reference to Figure 11, install HEELS lights on the copilot door as described in the following procedure:
- 7.3.1 Install rail P/N 001751-102-00 by means of n°2 screws P/N MS35206-225.
- 7.3.2 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300TB157 in an area adjacent to previously installed rail.
- 7.3.3 In accordance with applicable steps of AMP DM 39-B-33-52-04-00A-921A-K and DM 39-B-33-52-05-00A-921A-K, install battery pack assy P/N 3G3350A01811 and power supply assy P/N 3G3350A01711 by means of bracket P/N 3G5310A09751, n°3 washers P/N NAS1149D0316K and n°3 screws P/N MS352017-259.
- 7.3.4 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300G5 and decal P/N ED300BT5 respectively in an area adjacent to previously installed power supply assy and battery pack assy.
- 7.3.5 Fix junction P/N A596A04 by means of clamp P/N MS919WDG3.
- 7.3.6 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300TB1017 in an area adjacent to previously installed junction.
- 7.3.7 Lay down the HEEL lights C/A P/N 3G9A01A26401 (A1A264).
- 7.3.8 With reference to Figure 11 and Figure 23 wiring diagram, if it is missing, install the water sensor S115 P/N A523A-B02 on the C/A A1A264.
- 7.3.9 In accordance with applicable steps of AMP DM 39-B-33-52-01-00A-921A-K, install the following HEELS light assemblies by means of adhesive EA934NA (C057):
- HEELS light assy P/N 3G3350A00111;
 - HEELS light assy P/N 3G3350A00211;
 - HEELS light assy P/N 3G3350A00311;

- HEELS light assy P/N 3G3350A00411;
 - HEELS light assy P/N 3G3350A00511.
- 7.3.10 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install the following decals in an area adjacent to previously installed HEELS lights:
- Decal ED300DS61;
 - Decal ED300DS62;
 - Decal ED300DS63;
 - Decal ED300DS64;
 - Decal ED300DS65.
- 7.3.11 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300S115 in an area adjacent to water sensor S115.
- 7.3.12 With reference to Figure 11 and Figure 23 wiring diagram, perform the electrical connections of C/A A1A264 between water sensor S115, splices SPG5-1 and SPG5-2.
- NOTE**
- If necessary is allowed to trim the pocket previously removed to prevent interference between the pocket and the battery pack and power supply assemblies.
- 7.3.13 Re-install the pocket and the pocket cover on the copilot door by means of related hardware previously removed.
- 7.4 With reference to Figure 12, install HEELS lights on the pilot door as described in the following procedure:
- 7.4.1 Install rail P/N 001751-102-00 by means of n°2 screws P/N MS35206-225.
- 7.4.2 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300TB158 in an area adjacent to previously installed rail.
- 7.4.3 In accordance with applicable steps of AMP DM 39-B-33-52-09-00A-921A-K and 39-B-33-52-10-00A-921A-K, install battery pack assy P/N 3G3350A01811 and power supply assy P/N 3G3350A01711 by means of bracket P/N 3G5310A09751, n°3 washers P/N NAS1149D0316K and n°3 screws P/N MS352017-259.
- 7.4.4 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300G6 and decal P/N ED300BT6 respectively in an area adjacent to previously installed power supply assy and battery pack assy.
- 7.4.5 Fix junction P/N A596A04 by means of clamp P/N MS21919WDG5.

- 7.4.6 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300TB1018 in an area adjacent to previously installed junction.
- 7.4.7 Lay down the HEEL lights C/A P/N 3G9A01B27501 (A1B275).
- 7.4.8 With reference to Figure 12 and Figure 24 wiring diagram, if necessary, install the water sensor S119 P/N A523A-B02 on the C/A A1B275.
- 7.4.9 In accordance with applicable steps of AMP DM 39-B-33-52-06-00A-921A-K install the following HEELS light assemblies by means of adhesive EA934NA (C057):
- HEELS light assy P/N 3G3350A00111;
 - HEELS light assy P/N 3G3350A00211;
 - HEELS light assy P/N 3G3350A00311;
 - HEELS light assy P/N 3G3350A00411;
 - HEELS light assy P/N 3G3350A00511.
- 7.4.10 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install the following decals in an area adjacent to previously installed HEELS lights:
- Decal ED300DS81;
 - Decal ED300DS82;
 - Decal ED300DS83;
 - Decal ED300DS84;
 - Decal ED300DS85.
- 7.4.11 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300S119 in an area adjacent to water sensor S119.
- 7.4.12 With reference to Figure 12 and Figure 24 wiring diagram, perform the electrical connections of C/A A1B275 between water sensor S119, splices SPG6-1 and SPG6-2.

NOTE

If necessary is allowed to trim the pocket previously removed to prevent interference between the pocket and the battery pack and power supply assemblies.

- 7.4.13 Re-install the pocket and the pocket cover on the pilot door by means of related hardware previously removed.

NOTE

With reference to Figures 13, 14 and 15, the following C/A and the related hardware, may be already installed on the helicopter:

- HEEL lights C/A P/N 3G9B01A29801 (B1A298);
- HEEL lights C/A P/N 3G9B01B29801 (B1B298);
- HEEL lights C/A P/N 3G9B01B32601 (B1B326).

If possible, it is allowed to use the installed items.

- 7.5 With reference to Figure 14 View G-G, install edgings P/N A236AXXAB in the indicated positions.
- 7.6 With reference to Figure 14 View G-G, at location n°6, install standoff P/N A366A3E12C by means of adhesive EA9309.3NA (C021) and install clamp P/N MS21919WDG4 by means of washer P/N NAS1149D0332J and nut P/N MS21042L3.
- 7.7 With reference to Figure 14 View G-G, at location n°11, install bracket P/N MS9592-010 and support P/N AW001CL504B-N6 by means of screw P/N MS35206-243, washer P/N NAS1149DN816J, nut P/N MS21042L08, screw P/N NAS1801-3-8 and washer P/N NAS1149D0332J.
- 7.8 With reference to Figure 14 View G-G, at location n°5, install support P/N A630A3BT by means of adhesive EA9309.3NA (C021) and install clamp P/N MS21919WDG4 by means of washer P/N NAS1149D0332J, spacer P/N NAS43DD3-15N and screw P/N NAS1801-3-14.
- 7.9 With reference to Figure 13 View looking down floor, at locations n°1-2-3-4, remove existing supports and install n°4 standoff P/N AW001CL001-N6 by means of adhesive EA9309.3NA (C021).
- 7.10 With reference to Figure 15 View E-E, at locations n°13-14, install n°2 supports P/N AW001CL001-N6 by means of adhesive EA9309.3NA (C021).
- 7.11 With reference to Figure 14 View J-J, at location n°12, remove existing screw and install clamp P/N MS21919WDG7 by means of spacer P/N NAS43DD3-44 and screw P/N NAS1801-3-20.
- 7.12 With reference to Figure 15 View H, install edgings P/N A236AXXAB in the indicated positions.
- 7.13 With reference to Figure 14 View H-H, at location n°9, install support P/N AW001CL001-N6 by means of adhesive EA9309.3NA (C021).

- 7.14 With reference to Figure 14 View H-H, at location n°7, install standoff P/N A366A3E12C by means of adhesive EA9309.3NA (C021) and install clamp P/N MS21919WDG5 by means of washer P/N NAS1149D0332J and nut P/N MS21042L3.
- 7.15 With reference to Figure 14 View H-H, at location n°10, install bracket P/N MS9592-010 and support P/N AW001CL504B-N6 by means of screw P/N MS35206-243, washer P/N NAS1149DN816J, nut P/N MS21042L08, screw P/N NAS1801-3-8 and washer P/N NAS1149D0332J.
- 7.16 With reference to Figure 14 View H-H, at location n°8, install support P/N A630A3BT by means of adhesive EA9309.3NA (C021) and install clamp P/N MS21919WDG5 by means of washer P/N NAS1149D0332J, spacer P/N NAS43DD3-15N and screw P/N NAS1801-3-14.
- 7.17 In accordance with applicable steps of AMP DM 39-B-33-52-13-00A-921A-K and with reference to Figure 14 View H-H, install battery pack assy P/N 3G3350A01811 on mounting bracket P/N 3G3350V00351.
- 7.18 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 14 View H-H, install decal P/N ED300BT7 in an area adjacent to previously installed battery pack assy.
- 7.19 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 14 View H-H, install decal P/N ED300TB2054 in an area adjacent to junction TB2054.
- 7.20 In accordance with applicable steps of AMP DM 39-B-33-52-14-00A-921A-K and with reference to Figure 15 View E-E, install power supply assy P/N 3G3350A01711 on mounting bracket P/N 3G3350V00351.
- 7.21 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 15 View E-E, install decal P/N ED300G7 in an area adjacent to previously installed power supply assy.
- 7.22 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 15 View E-E, install decal P/N ED300TB2047 in an area adjacent to junction TB2047.
- 7.23 With reference to Figure 15 View E-E, install rail P/N 001751-102-00 by means of n°2 screws P/N MS35206-225.
- 7.24 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 15 View E-E, install decal P/N ED300TB263 in an area adjacent to previously installed rail.

NOTE

Use edging P/N A236A on metallic edges which can damage cable assemblies and where abrasion may occur.

Use braided tubing P/N EN6049-006 where cable assemblies chafing or contact with structure may occur.

Secure the cables by means of previously installed fixing hardware and existing hardware. If necessary, replace existing clamps with suitable clamps.

- 7.25 With reference to Figures 13, 14 and 15, lay down the below C/As following the existing route unless otherwise indicated on the figures:
- HEEL lights C/A P/N 3G9B01A29801 (B1A298);
 - HEEL lights C/A P/N 3G9B01B29801 (B1B298);
 - HEEL lights C/A P/N 3G9B01B32601 (B1B326);

NOTE

Where necessary and in accordance with AMP DM 39-A-20-10-08-00A-622A-A, crimp on wires the required electrical contacts (Refer to table on Figure 27) by means of proper crimping tool.

- 7.26 With reference to Figure 13, 14, 15 and Figure 22 wiring diagram, perform the electrical connections of C/A B1A298 between sectioning connector J283, terminal board TB263, splices SPG7-1 and SPG7-2.
- 7.27 With reference to Figure 13, 14, 15 and Figure 22 wiring diagram, perform the electrical connections of C/A B1B298 between sectioning connector J284, terminal board TB263, splices SPG7-1 and SPG7-2.
- 7.28 With reference to Figure 13, 14, 15 and Figure 22 wiring diagram, perform the electrical connections of C/A B1B326 between junctions TB2047 and TB2054.
- 7.29 With reference to Figure 14 View G-G, install sectioning connector J283 by means of the flange P/N M85049/95-12A-A, n°4 screws P/N MS35206-216 and n°4 washers P/N NAS1149DN416J.
- 7.30 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 14 View G-G, install decal P/N ED300J283 in an area adjacent to previously installed connector.
- 7.31 With reference to Figure 14 View H-H, install sectioning connector J284 by means of the flange P/N M85049/95-12A-A, n°4 screws P/N MS35206-216 and n°4 washers P/N NAS1149DN416J.

- 7.32 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 14 View H-H, install decal P/N ED300J284 in an area adjacent to previously installed connector.
- 7.33 In accordance with applicable steps of AMP DM 39-B-33-52-11-00A-921A-K and with reference to Figure 16, install HEELS lights on the window liner assy LH upper P/N 3G2580A26531 as described in the following procedure:
- 7.33.1 At locations n°15-16-17-18-19, install n°5 supports P/N A630A31 on the internal side of the window liner assy LH upper by means of adhesive EA9309.3NA (C021).
- 7.33.2 At location n°23, install support P/N MS3339-3-9 on the internal side of the window liner assy LH upper by means of adhesive EA9309.3NA (C021).
- 7.33.3 At locations n°20-21-22, install n°3 supports P/N A630A31 on the internal side of the window liner assy LH lower by means of adhesive EA9309.3NA (C021).
- 7.33.4 Install HEELS light assy P/N 3G3350A00611 on the window liner assy LH upper P/N 3G2580A26531.
- 7.33.5 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install the following decals in an area adjacent to previously installed HEELS lights:
- Decal ED300DS66;
 - Decal ED300DS67;
 - Decal ED300DS68;
 - Decal ED300DS69;
 - Decal ED300DS70.
- 7.33.6 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300S113 in an area adjacent to water sensor S113.
- 7.34 In accordance with applicable steps of AMP DM 39-B-33-52-12-00A-921A-K and with reference to Figure 17, install HEELS lights on the window liner assy RH upper P/N 3G2580A26631 as described in the following procedure:
- 7.34.1 At locations n°24-25-26-27-28, install n°5 supports P/N A630A31 on the internal side of the window liner assy RH upper by means of adhesive EA9309.3NA (C021).
- 7.34.2 At location n°32, install support P/N MS3339-3-9 on the internal side of the window liner assy RH upper by means of adhesive EA9309.3NA (C021).

- 7.34.3 At locations n°29-30-31, install n°3 supports P/N A630A31 on the internal side of the window liner assy RH lower by means of adhesive EA9309.3NA (C021).
- 7.34.4 Install HEELS light assy P/N 3G3350A00611 on the window liner assy RH upper P/N 3G2580A26631.
- 7.34.5 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install the following decals in an area adjacent to previously installed HEELS lights:
- Decal ED300DS86;
 - Decal ED300DS87;
 - Decal ED300DS88;
 - Decal ED300DS89;
 - Decal ED300DS90.
- 7.34.6 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300S114 in an area adjacent to water sensor S114.
- 7.35 Perform a pin-to-pin continuity check of all the electrical connection made.
8. In accordance with AMP DM 39-A-06-41-00-00A-010A-A, re-install all external panels and internal panels previously removed.

NOTE

If necessary, it is allowed to locally rework liners to perform required water sensors test holes.

9. In accordance with AMP DM 39-A-06-41-00-00A-010A-A and with reference to Figures 18 thru 21, install the window liner assy LH upper P/N 3G2580A26531, the window liner assy RH upper P/N 3G2580A26631 and the other internal liners previously removed by means of relative hardware.

NOTE

If necessary, it is allowed to locally rework liners to perform required water sensors test holes.

10. In accordance with applicable steps of AMP DM 39-A-25-82-17-00A-720A-A and with reference to Figure 18, install the cabin door lining panel assy LH P/N 3G3350A02132 by means of relative hardware on the cabin door LH.

NOTE

If necessary, it is allowed to locally rework liners to perform required water sensors test holes.

11. In accordance with applicable steps of AMP DM 39-A-25-82-18-00A-720A-A and with reference to Figure 19, install the cabin door lining panel assy RH P/N 3G3350A02032 by means of relative hardware on the cabin door RH.
12. In accordance with AMP DM 39-A-52-11-01-00A-720A-A, re-install the left cockpit door on the helicopter.
13. In accordance with AMP DM 39-A-52-11-02-00A-720A-A, re-install the right cockpit door on the helicopter.
14. In accordance with AMP DM 39-B-33-52-00-00A-340A-K, perform the function test of the emergency exit lighting system.
15. In accordance with weight and balance changes, update the Chart A (see Rotorcraft Flight Manual, Part II, section 6).
16. Return the helicopter to flight configuration and record for compliance with this Service Bulletin on the helicopter logbook.
17. Gain access to My Communications section on [Leonardo Customer Portal](#) and compile the “Service - Technical Bulletin Application”.

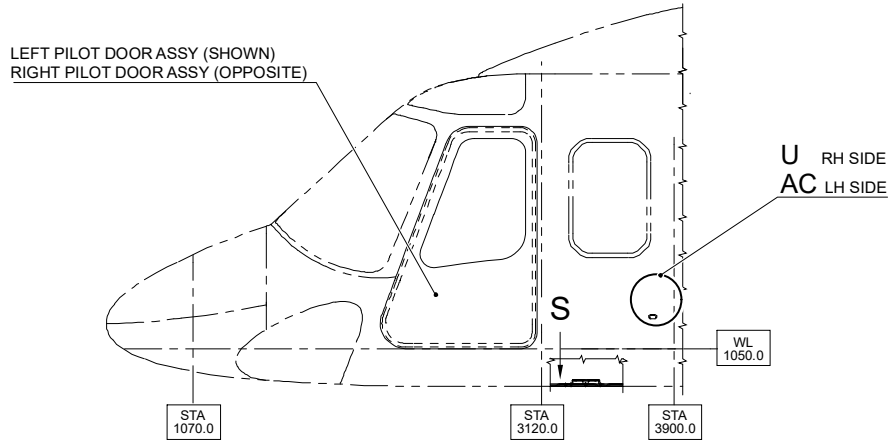
As an alternative, send the attached compliance form to the following mail box:

engineering.support.lhd@leonardo.com

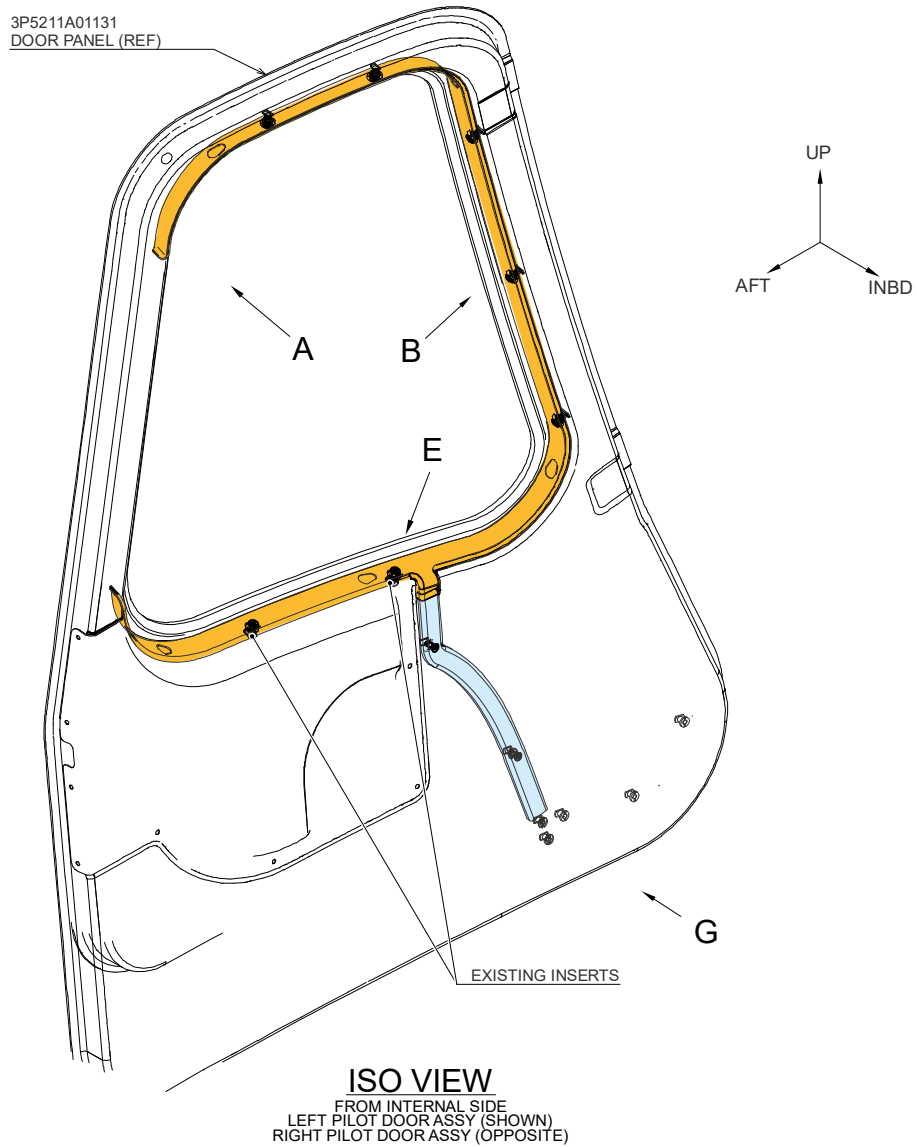
and (for North, Central and South America) also to:

AWPC.Engineering.Support@leonardocompany.us

3G5310A09211
HEELS
STRUCTURAL PROVISION



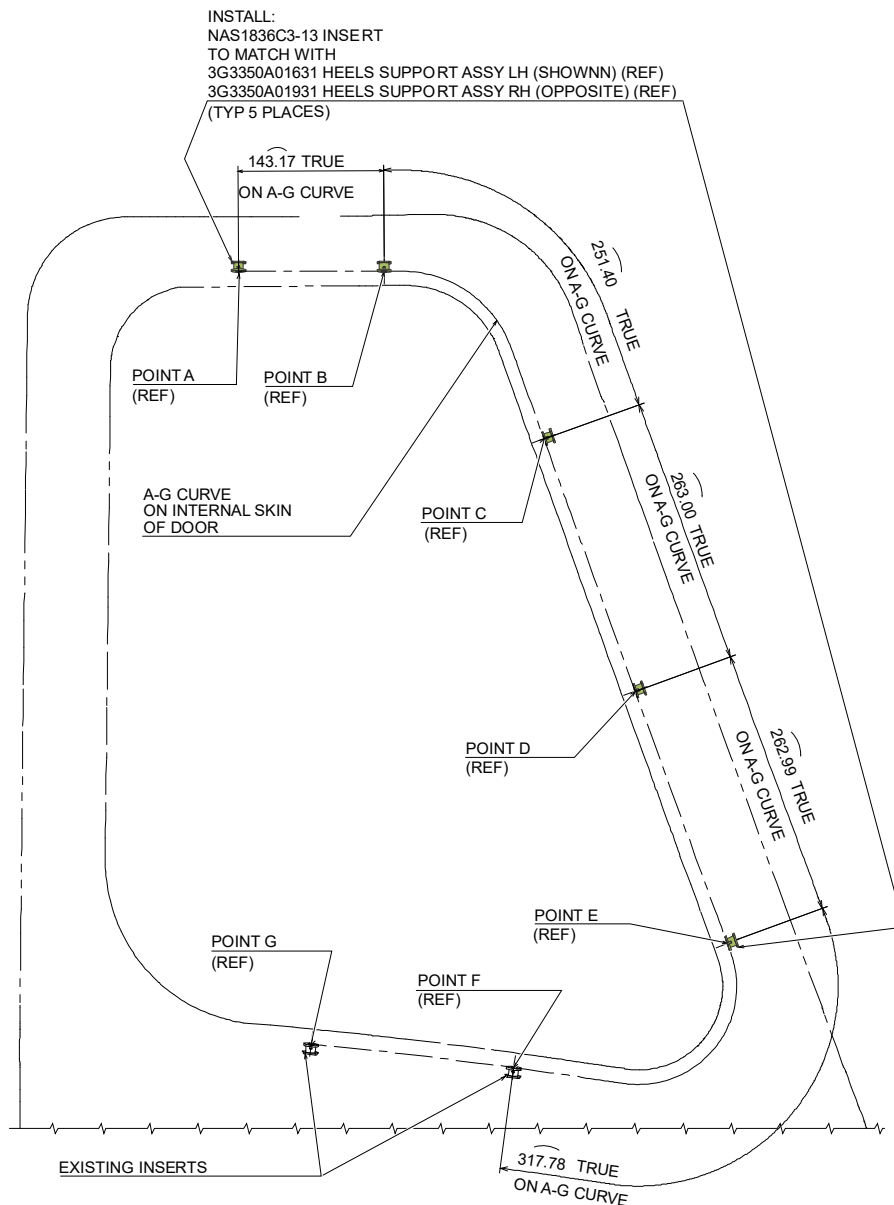
LHS EXTERNAL VIEW



ISO VIEW
FROM INTERNAL SIDE
LEFT PILOT DOOR ASSY (SHOWN)
RIGHT PILOT DOOR ASSY (OPPOSITE)

Figure 1

POINT (ON INTERNAL SKIN OF DOOR)	COORDINATES (REF)			
	X	Y/LHS	Y/RHS	Z
A	2887.00	-998.14	998.14	2301.73
B	2745.00	-979.25	979.25	2300.66
C	2587.81	-987.94	987.94	2137.95
D	2495.61	-1021.11	1021.11	1893.91
E	2403.36	-1044.66	1044.66	1648.77
F(REF)	2609.78	-1085.69	1085.69	1529.41
G(REF)	2807.80	-1100.53	1100.53	1552.69



VIEW A

LEFT PILOT DOOR ASSY (SHOWN)
 RIGHT PILOT DOOR ASSY (OPPOSITE)
 HEELS SUPPORT ASSY AND SCREWS REMOVED FOR CLARITY

Figure 2

S.B. N°139-720 OPTIONAL
 DATE: April 22, 2024
 REVISION: /

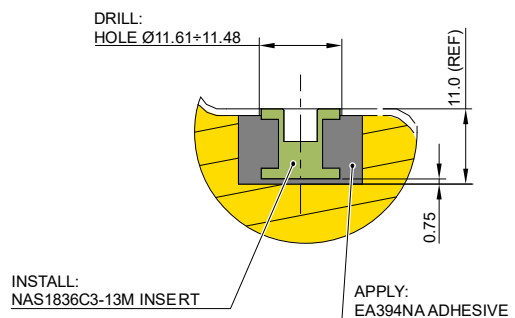
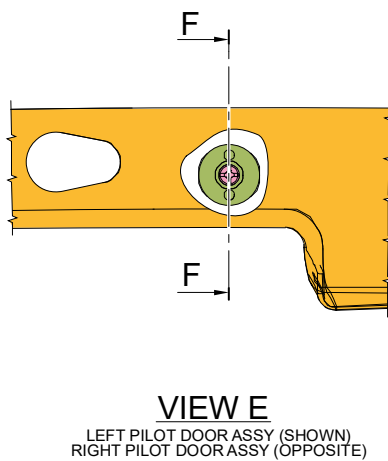
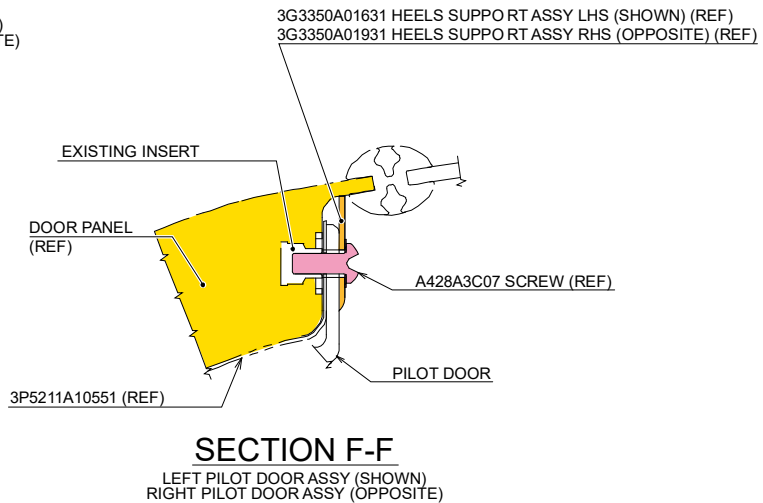
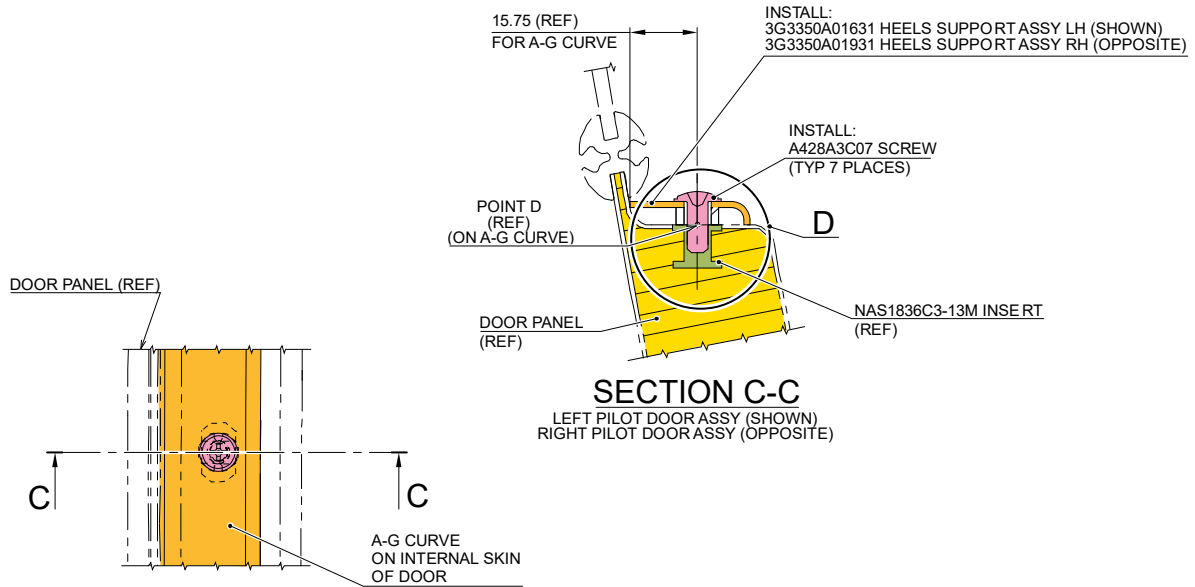
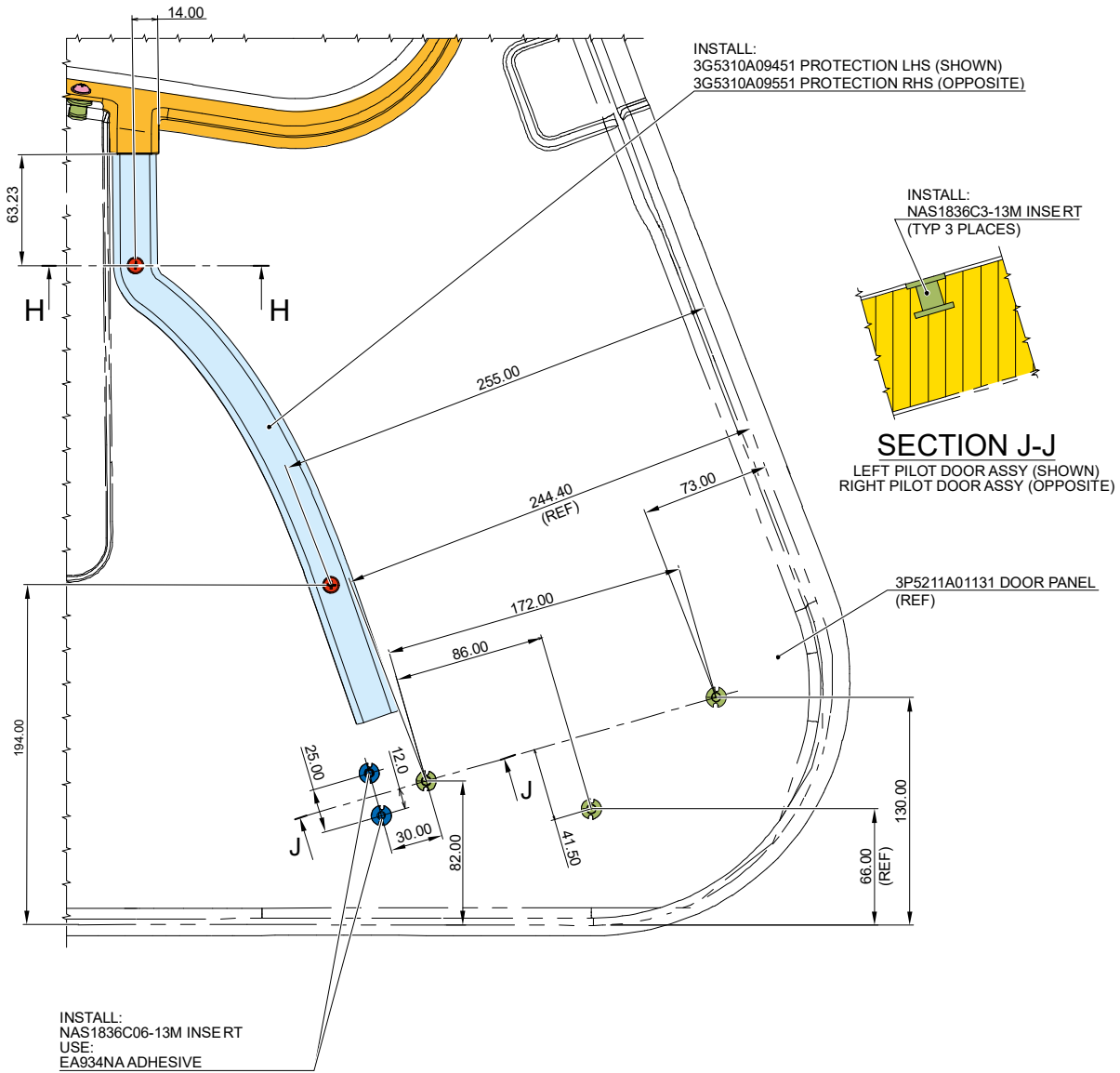


Figure 3



VIEW G

LEFT PILOT DOOR ASSY (SHOWN)
RIGHT PILOT DOOR ASSY (OPPOSITE)

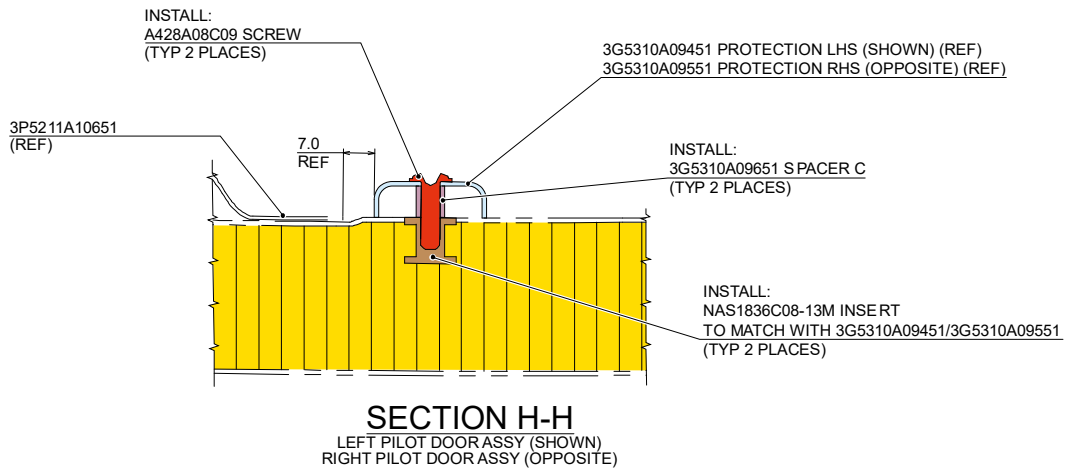
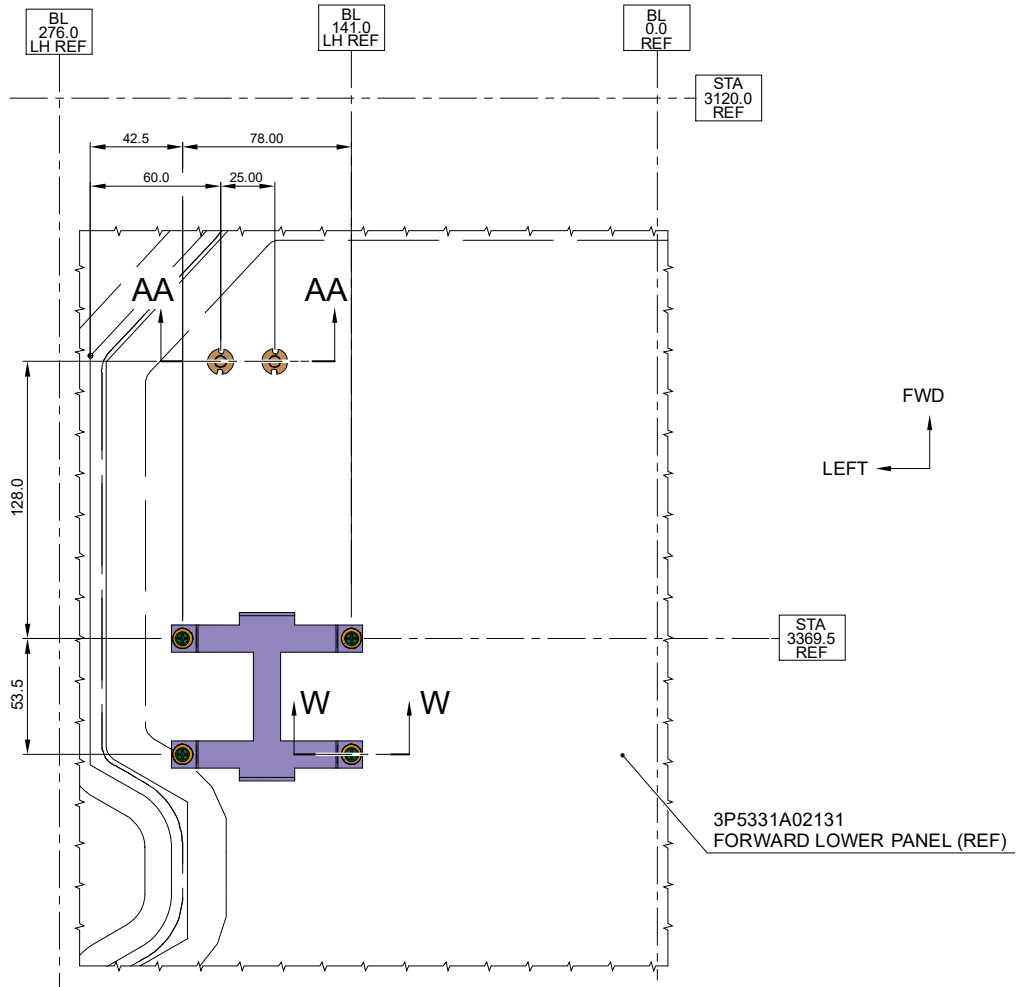
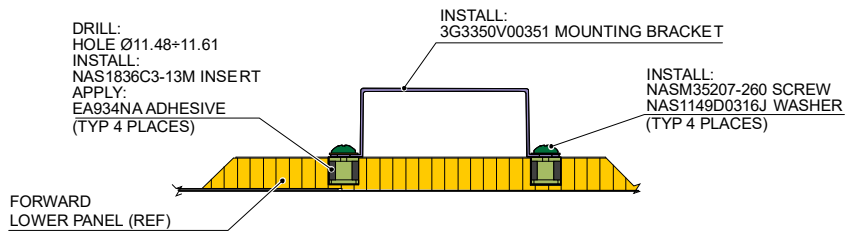


Figure 4



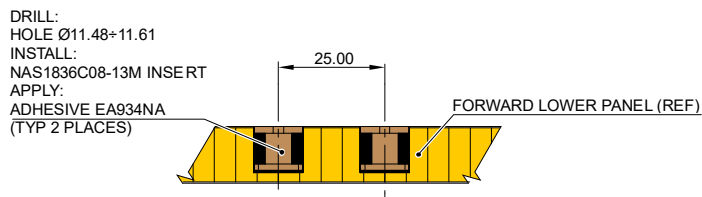
VIEW S

ROTATED 90°CW
STRUCTURES AND SYSTEMS ARE PARTIALLY
OMITTED FOR BETTER CLARITY PURPOSE



SECTION W-W

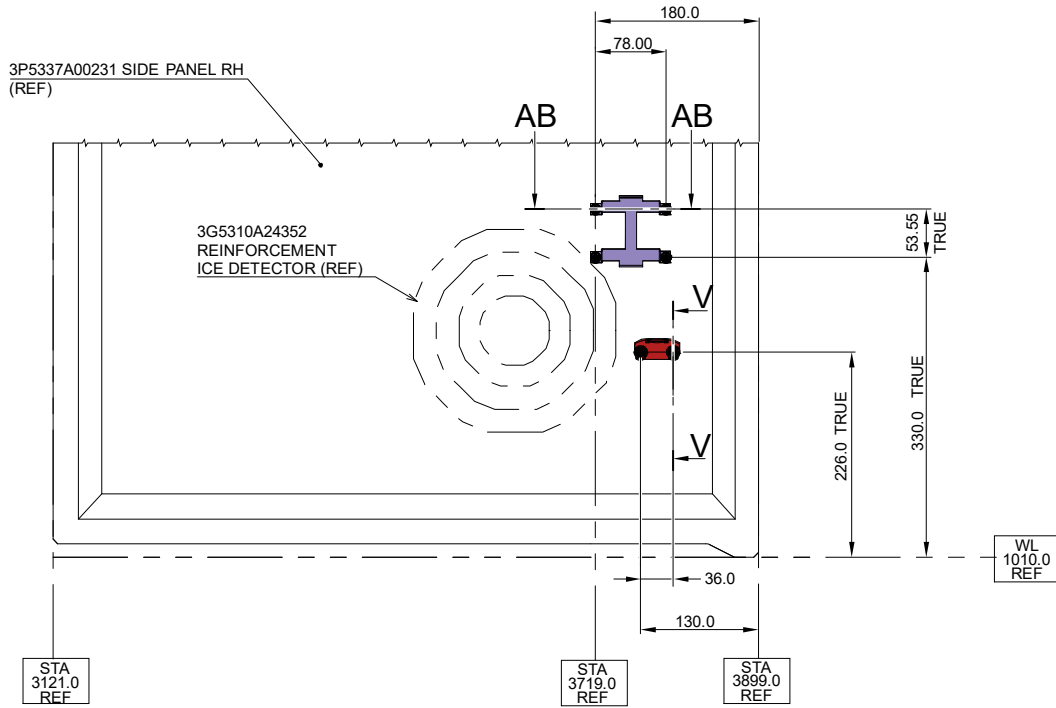
STRUCTURES AND SYSTEMS ARE PARTIALLY
OMITTED FOR BETTER CLARITY PURPOSE



SECTION AA-AA

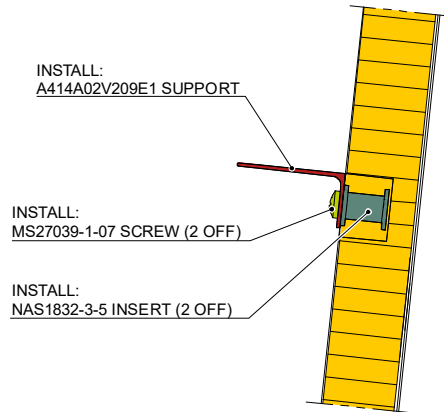
STRUCTURES AND SYSTEMS ARE PARTIALLY
OMITTED FOR BETTER CLARITY PURPOSE

Figure 5



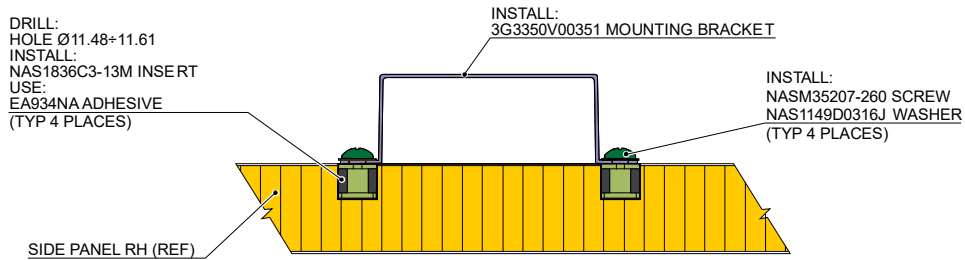
DETAIL U

VIEW LOOKING OUTBOARD RH SIDE ONLY
STRUCTURES AND SYSTEMS ARE PARTIALLY
OMITTED FOR BETTER CLARITY PURPOSE



SECTION V-V

STRUCTURES AND SYSTEMS ARE PARTIALLY
OMITTED FOR BETTER CLARITY PURPOSE

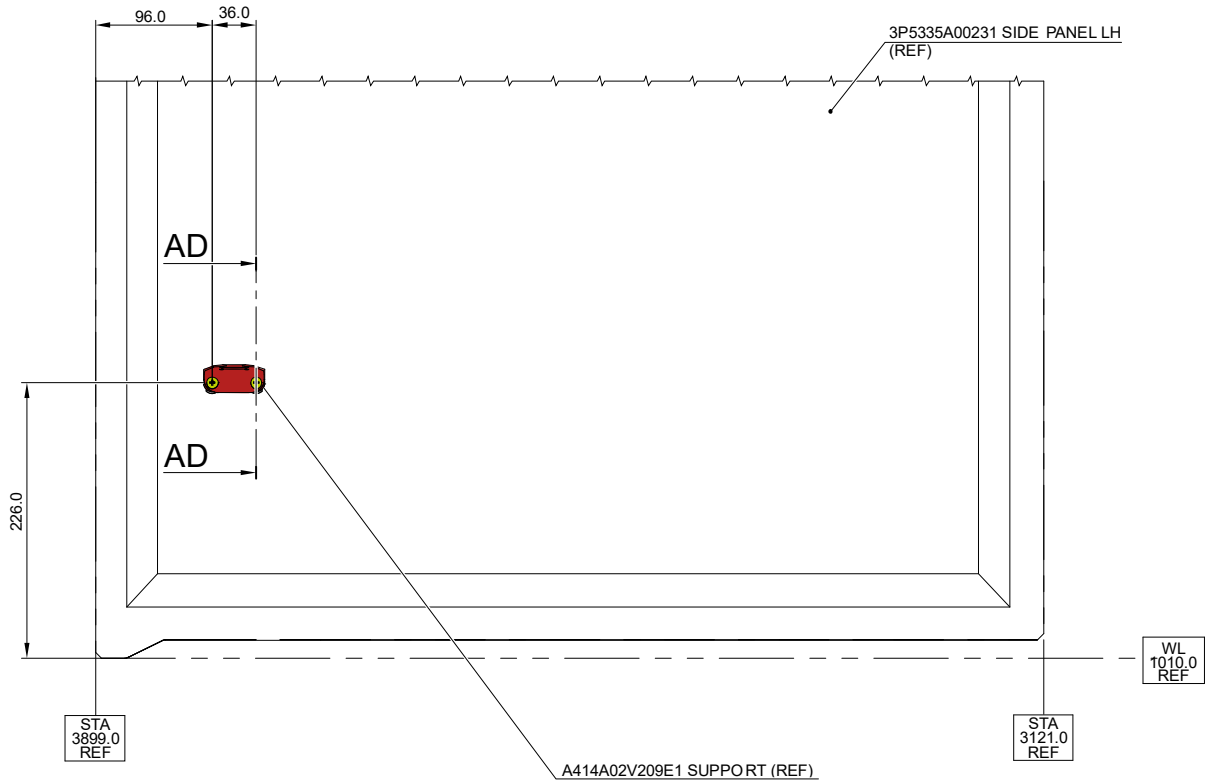


SECTION AB-AB

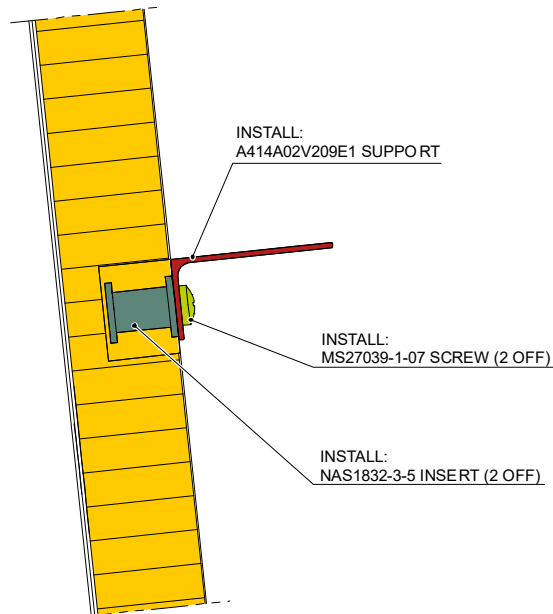
STRUCTURES AND SYSTEMS ARE PARTIALLY
OMITTED FOR BETTER CLARITY PURPOSE

Figure 6

S.B. N°139-720 OPTIONAL
DATE: April 22, 2024
REVISION: /



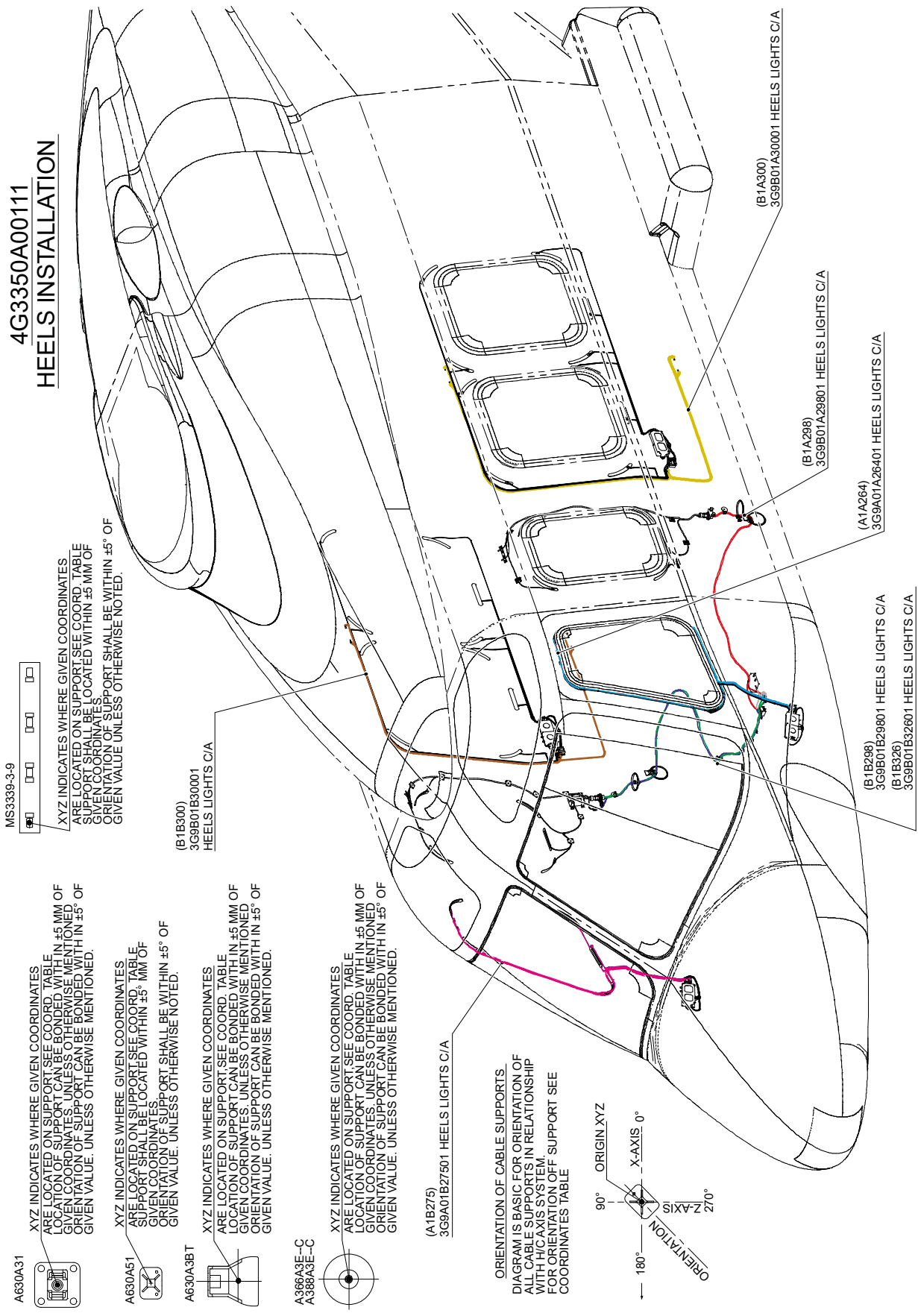
DETAIL AC
VIEW LOOKING OUTBOARD LH SIDE
STRUCTURES AND SYSTEMS ARE PARTIALLY
OMITTED FOR BETTER CLARITY PURPOSE



SECTION AD-AD
STRUCTURES AND SYSTEMS ARE PARTIALLY
OMITTED FOR BETTER CLARITY PURPOSE

Figure 7

4G3350A00111
HEELS INSTALLATION



MS3339-3-9

XYZ INDICATES WHERE GIVEN COORDINATES ARE LOCATED ON SUPPORT SEE COORD. TABLE LOCATION OF SUPPORT CAN BE BONDED WITHIN ± 5 MM OF GIVEN COORDINATES UNLESS OTHERWISE MENTIONED. ORIENTATION OF SUPPORT SHALL BE WITHIN $\pm 5^\circ$ OF GIVEN VALUE UNLESS OTHERWISE NOTED.

A630A31

XYZ INDICATES WHERE GIVEN COORDINATES ARE LOCATED ON SUPPORT SEE COORD. TABLE LOCATION OF SUPPORT CAN BE BONDED WITHIN ± 5 MM OF GIVEN COORDINATES UNLESS OTHERWISE MENTIONED. ORIENTATION OF SUPPORT SHALL BE WITHIN $\pm 5^\circ$ OF GIVEN VALUE UNLESS OTHERWISE NOTED.

A630A51

XYZ INDICATES WHERE GIVEN COORDINATES ARE LOCATED ON SUPPORT SEE COORD. TABLE LOCATION OF SUPPORT CAN BE BONDED WITHIN ± 5 MM OF GIVEN COORDINATES UNLESS OTHERWISE MENTIONED. ORIENTATION OF SUPPORT SHALL BE WITHIN $\pm 5^\circ$ OF GIVEN VALUE UNLESS OTHERWISE NOTED.

A630A3BT

XYZ INDICATES WHERE GIVEN COORDINATES ARE LOCATED ON SUPPORT SEE COORD. TABLE LOCATION OF SUPPORT CAN BE BONDED WITHIN ± 5 MM OF GIVEN COORDINATES UNLESS OTHERWISE MENTIONED. ORIENTATION OF SUPPORT SHALL BE WITHIN $\pm 5^\circ$ OF GIVEN VALUE UNLESS OTHERWISE NOTED.

A366A3E-C
A388A3E-C

XYZ INDICATES WHERE GIVEN COORDINATES ARE LOCATED ON SUPPORT SEE COORD. TABLE LOCATION OF SUPPORT CAN BE BONDED WITHIN ± 5 MM OF GIVEN COORDINATES UNLESS OTHERWISE MENTIONED. ORIENTATION OF SUPPORT SHALL BE WITHIN $\pm 5^\circ$ OF GIVEN VALUE UNLESS OTHERWISE NOTED.

(A1B275)
3G9A01B27501 HEELS LIGHTS C/A

ORIENTATION OF CABLE SUPPORTS

DIAGRAM IS BASIC FOR ORIENTATION OF ALL CABLE SUPPORTS IN RELATIONSHIP WITH C/A XIS SYSTEM. FOR ORIENTATION OFF SUPPORT SEE COORDINATES TABLE

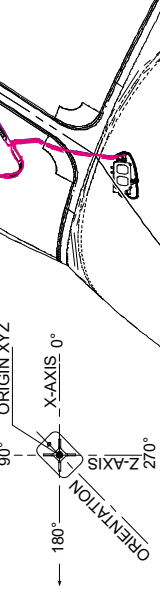
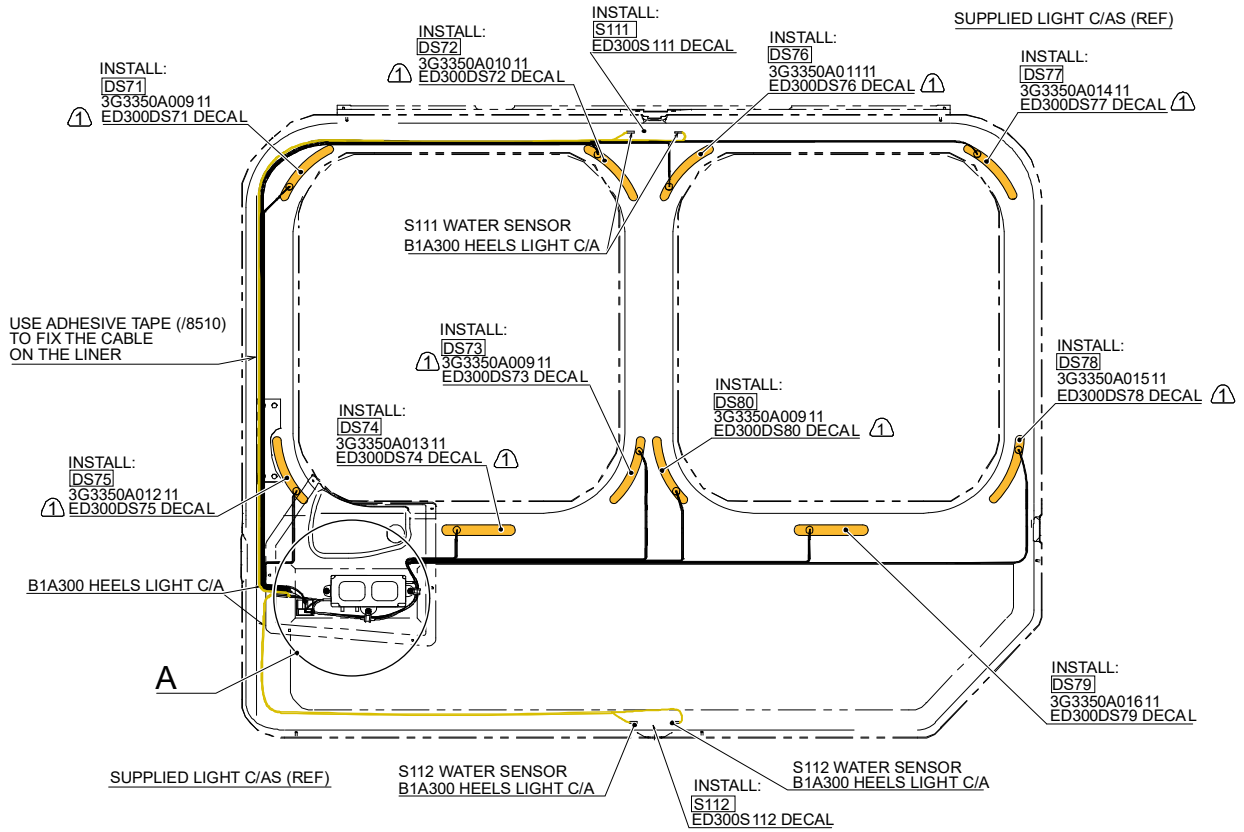


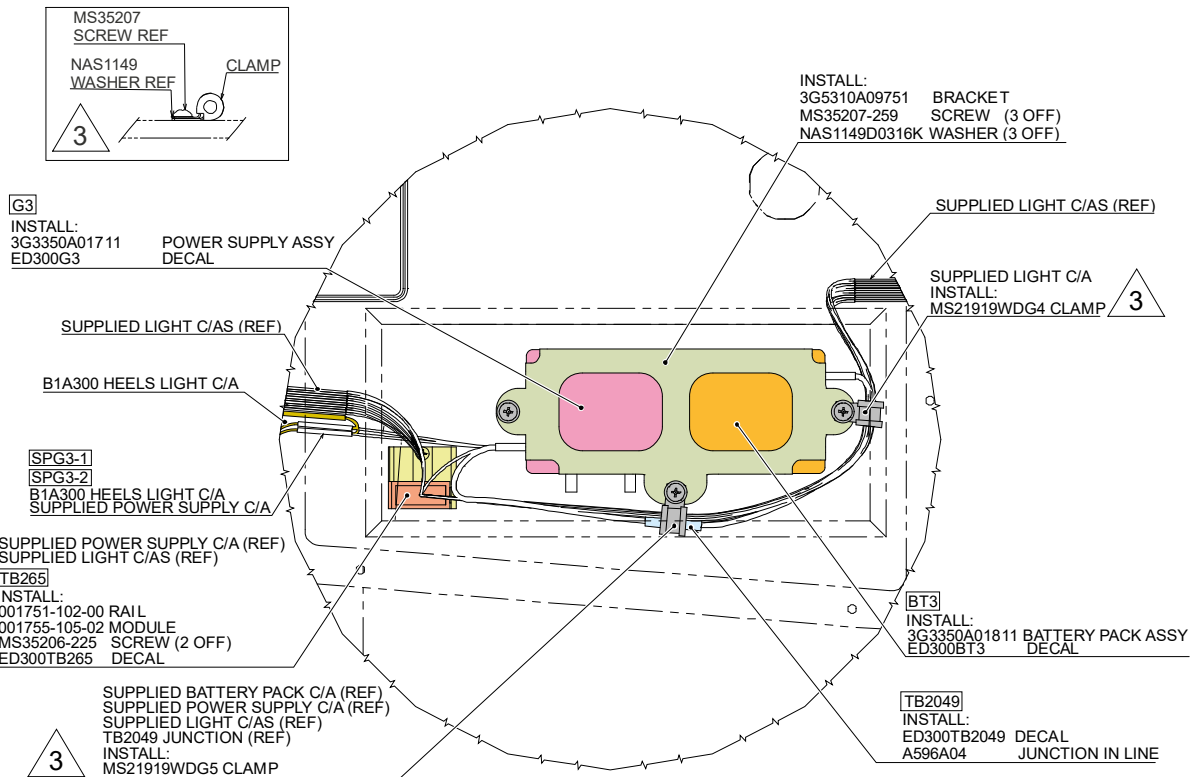
Figure 8

S.B. N°139-720 OPTIONAL
DATE: April 22, 2024
REVISION: /



VIEW LOOKING PASSENGER DOOR LH SIDE FROM EXTERNAL SIDE

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE



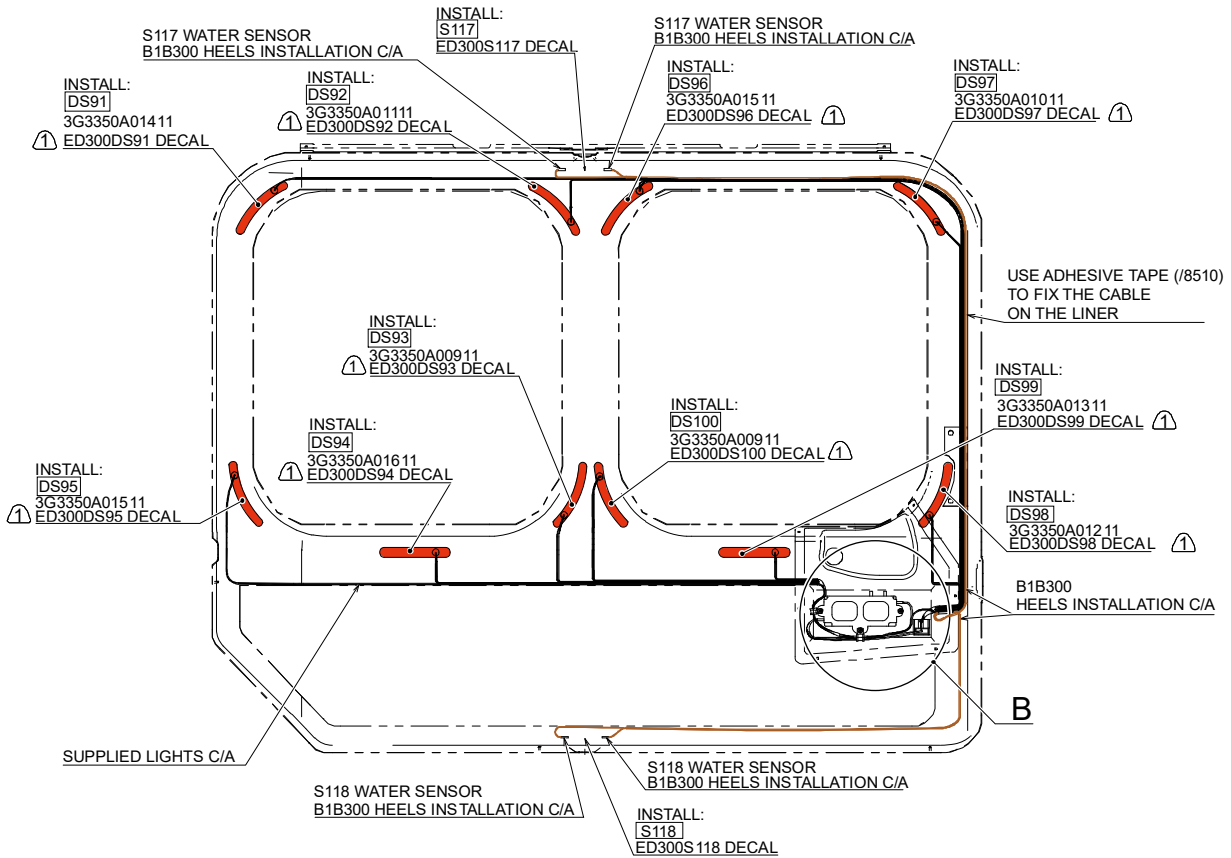
NOTE:

⚠️ APPLY EA934NA ADHESIVE

DETAIL A

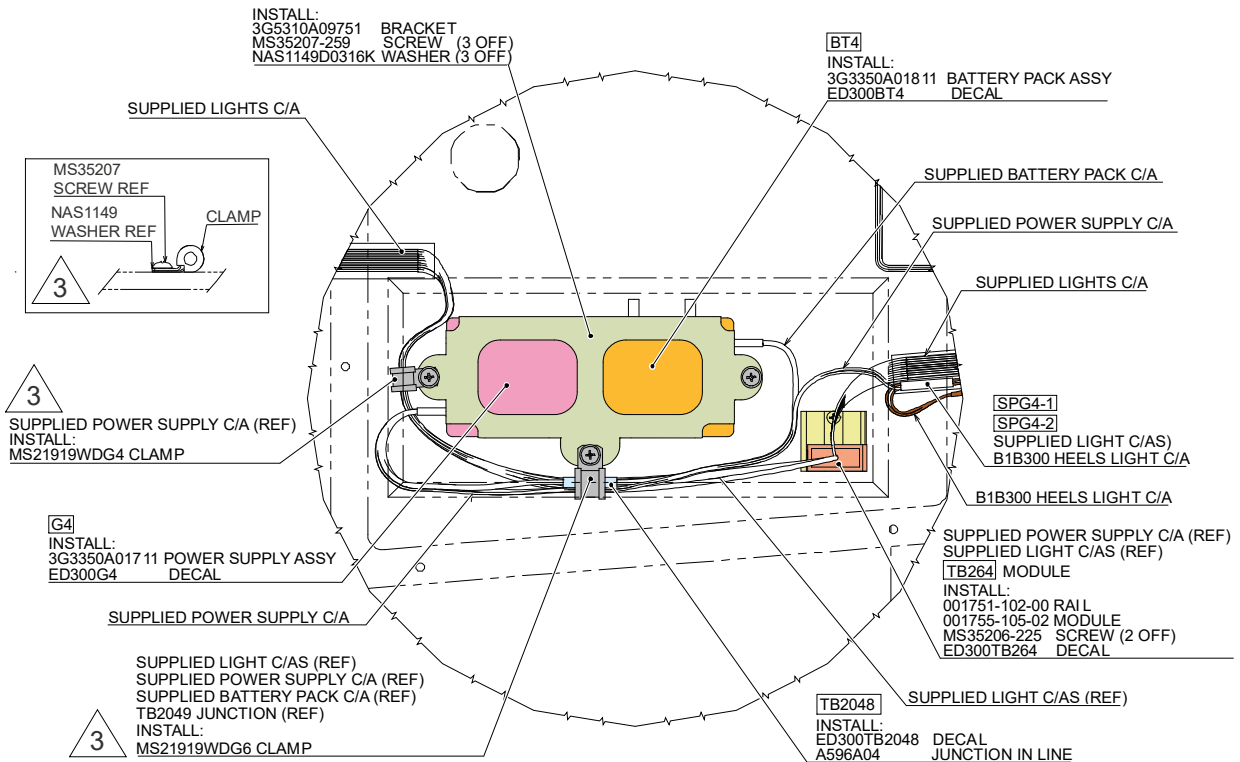
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

Figure 9



VIEW LOOKING PASSENGER DOOR RH SIDE FROM EXTERNAL SIDE

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE



DETAIL B

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

NOTE:

⚠️ APPLY EA934NA ADHESIVE

Figure 10

S.B. N°139-720 OPTIONAL

DATE: April 22, 2024

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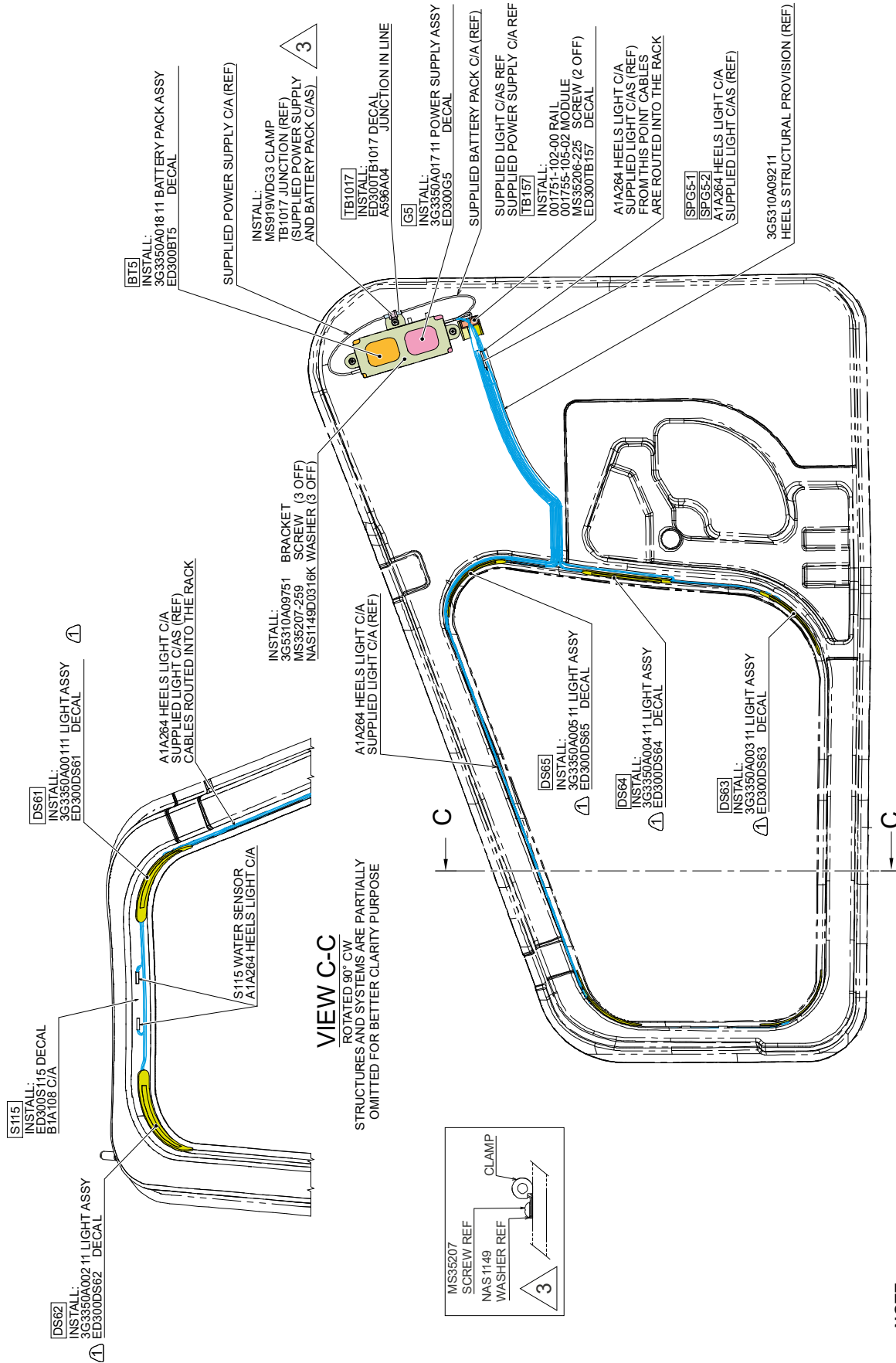


Figure 11

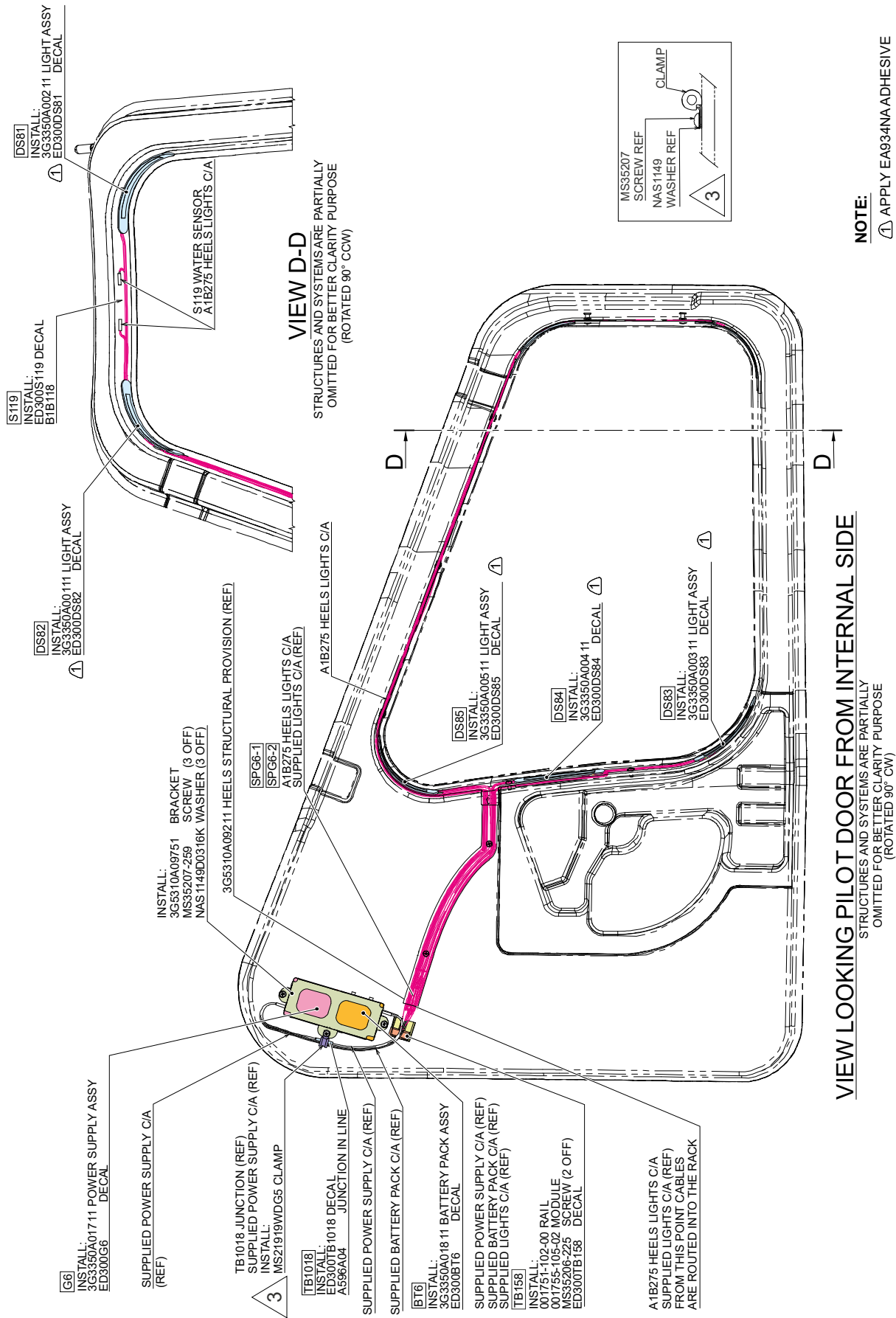
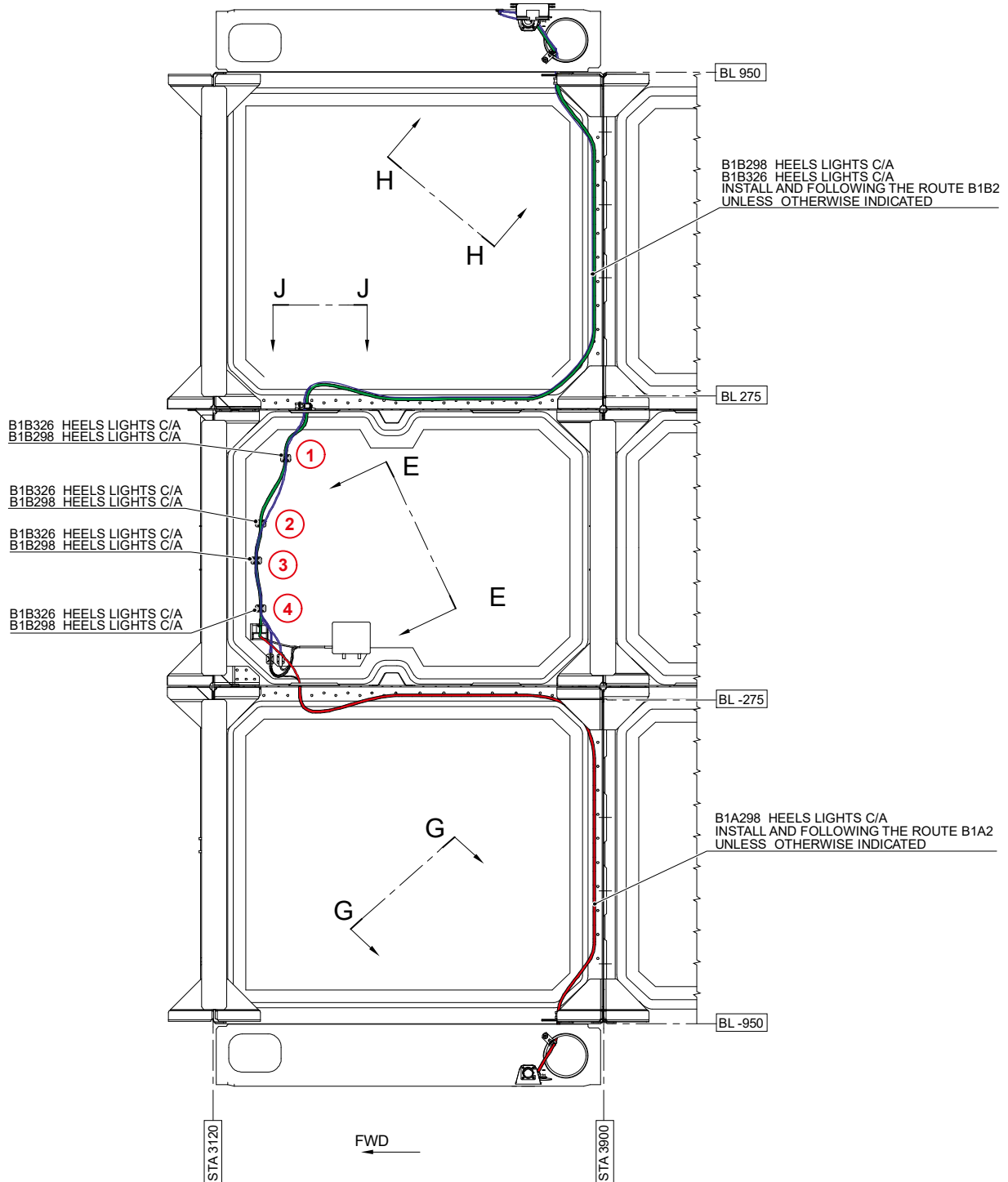


Figure 12

S.B. N°139-720 OPTIONAL
DATE: April 22, 2024
REVISION: /

LOCATION NUMBER	PART NUMBER	STA	BL	WL	ORIENTATION
①	AW001CL001-N6	3265	179	844	0°
②	AW001CL001-N6	3215	49	844	
③	AW001CL001-N6	3206	-25	844	
④	AW001CL001-N6	3215	-121	844	



VIEW LOOKING DOWN FLOOR

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

Figure 13

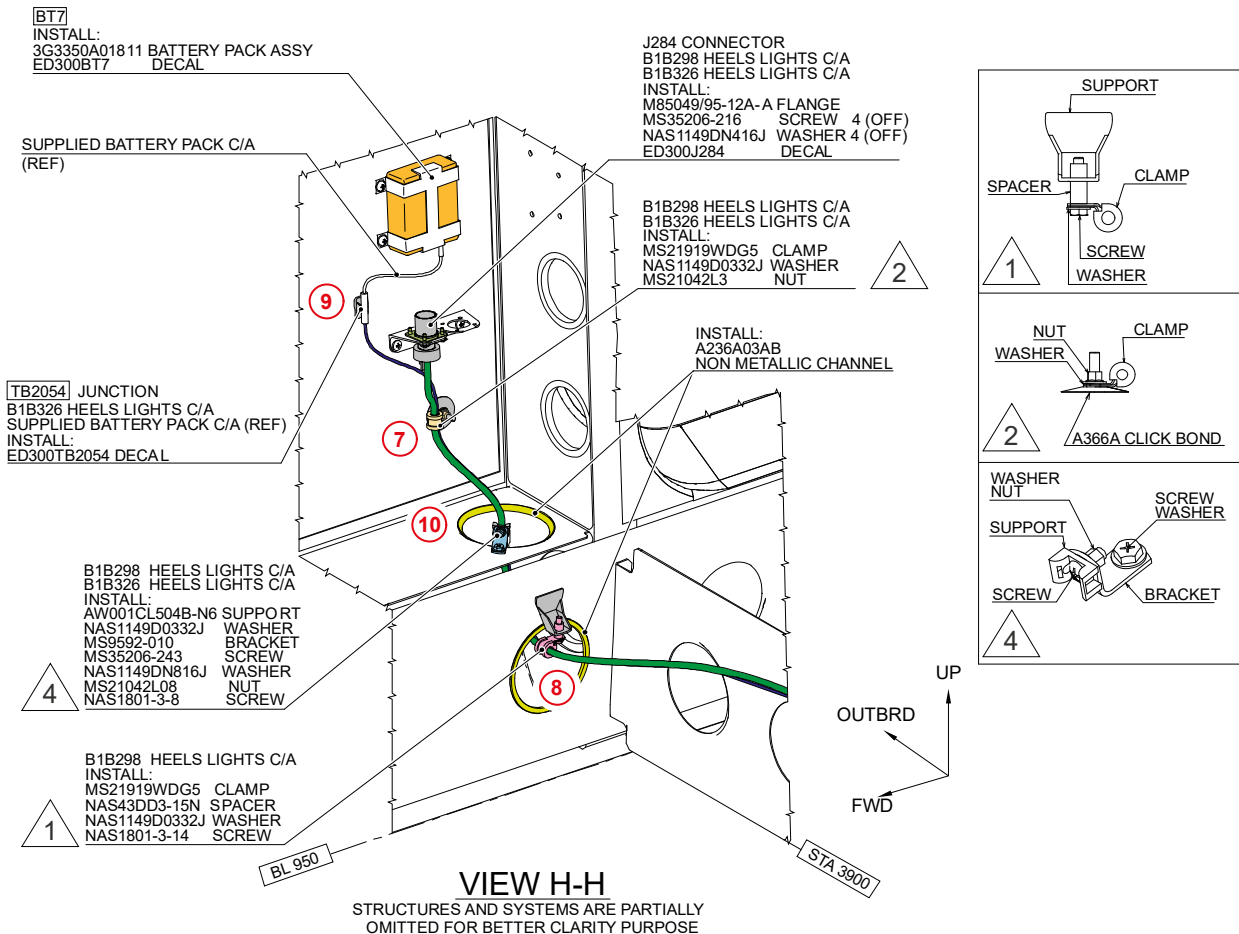
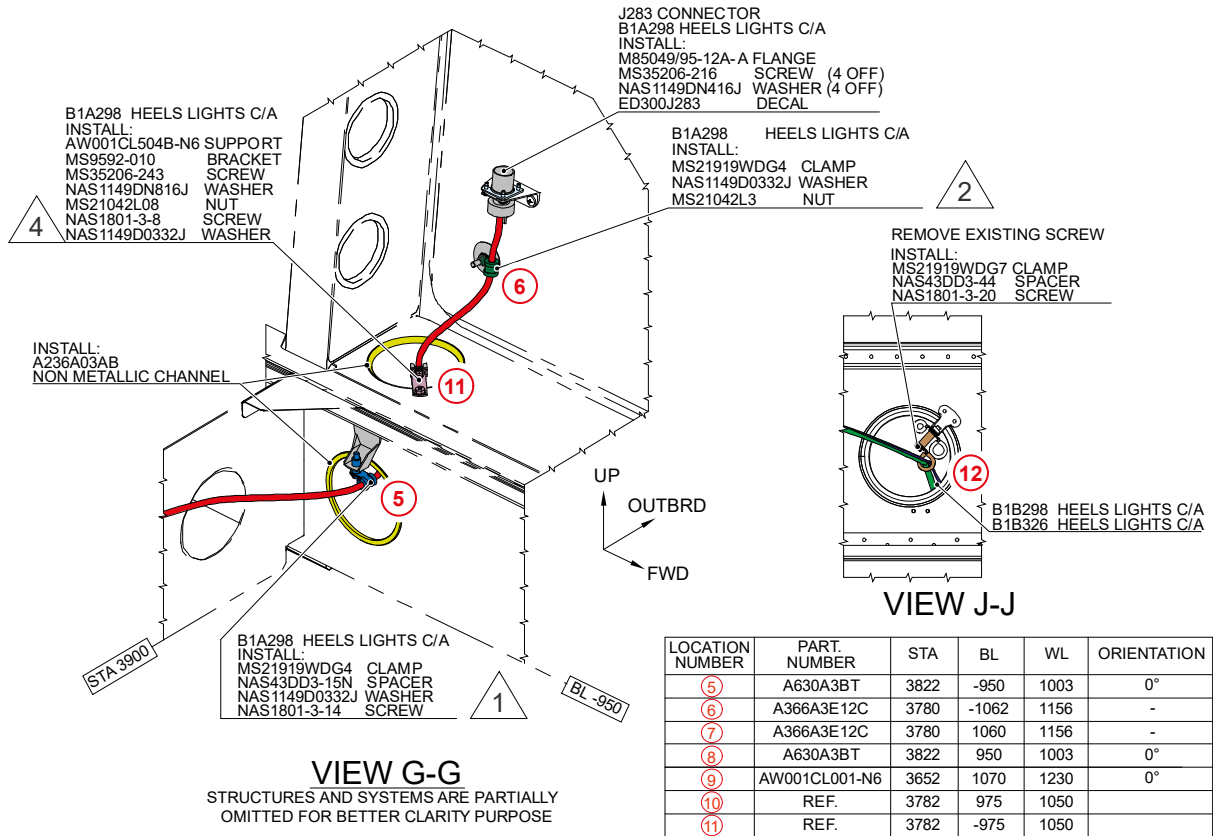
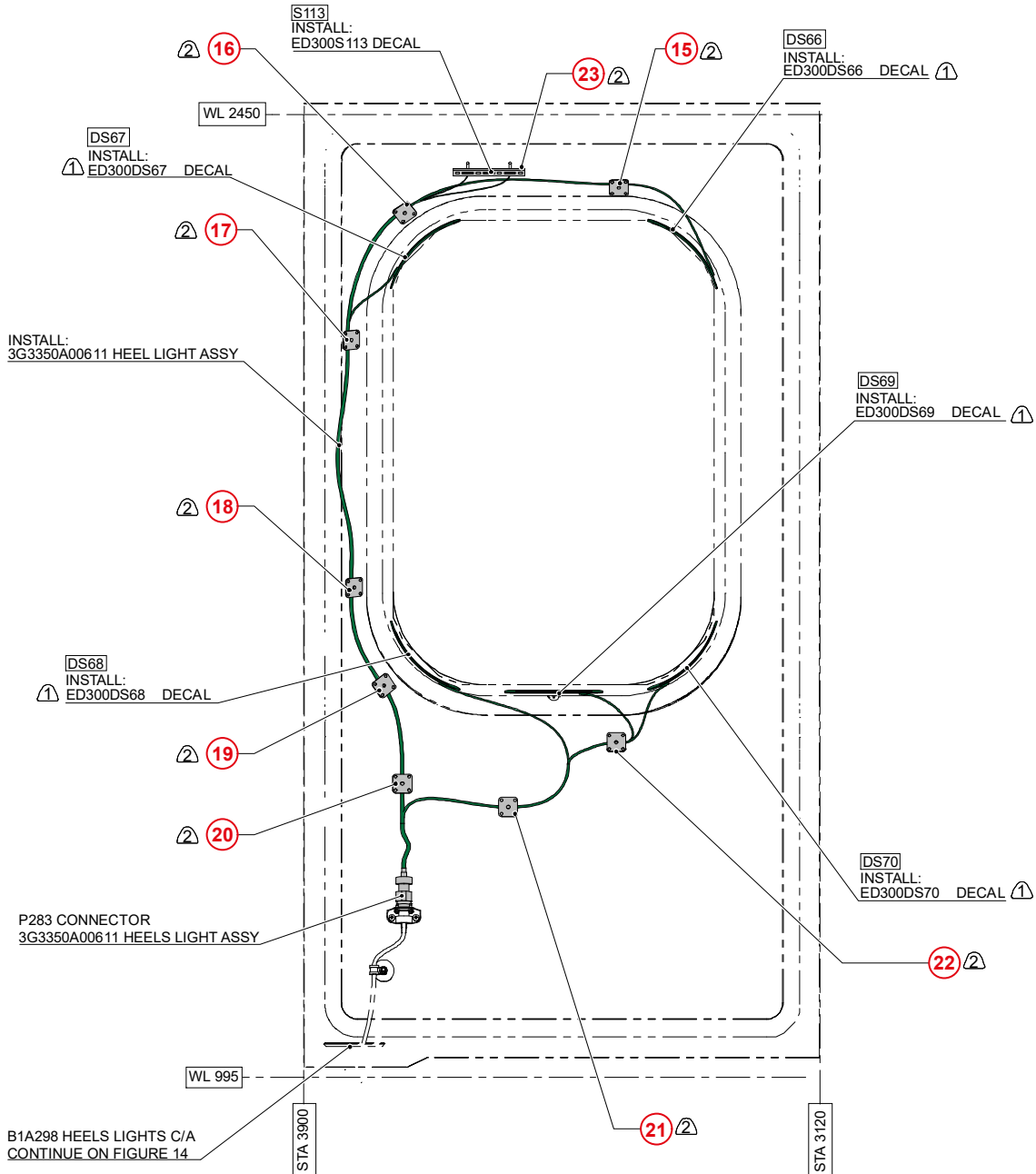


Figure 14



VIEW LOOKING LH PAX DOOR FROM INTERNAL SIDE

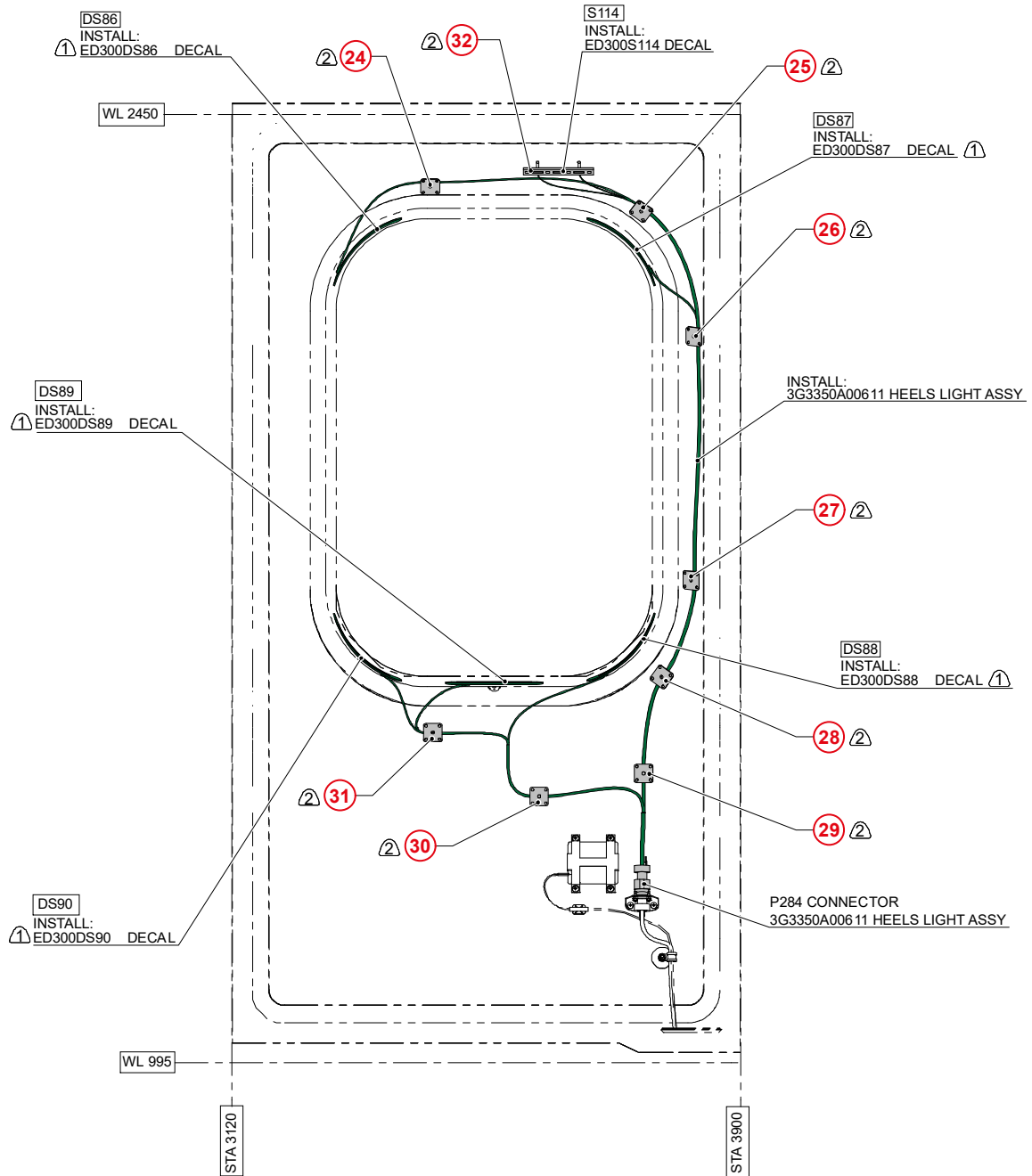
STRUCTURES AND SYSTEMS ARE PARTIALLY
OMITTED FOR BETTER CLARITY PURPOSE
ROTATED 180°

NOTE:

- ① APPLY EA934NA ADHESIVE
- ② FIX PLASTIC SUPPORT ON INTERNAL LINERS

LOCATION NUMBER	PART NUMBER	STA	BL	WL	ORIENTATION
⑮	A630A31	3424	-930	2339	0°
⑯	A630A31	3748	-941	2301	45°
⑰	A630A31	3828	-939	2109	0°
⑱	A630A31	3824	-1017	1735	0°
⑲	A630A31	3779	-1051	1587	45°
⑳	A630A31	3751	-1020	1439	0°
㉑	A630A31	3591	-1019	1403	0°
㉒	A630A31	3428	-1023	1501	45°
㉓	MS3339-3-9	3668	-911	2361	0°

Figure 16



VIEW LOOKING RH PAX DOOR FROM INTERNAL SIDE

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

NOTE:

- ① APPLY EA934NA ADHESIVE
- ② FIX PLASTIC SUPPORT ON INTERNAL LINERS

LOCATION NUMBER	PART NUMBER	STA	BL	WL	ORIENTATION
24	A630A31	3424	930	2339	0°
25	A630A31	3748	941	2301	45°
26	A630A31	3828	939	2109	0°
27	A630A31	3824	1017	1735	0°
28	A630A31	3779	1051	1587	45°
29	A630A31	3751	1020	1439	0°
30	A630A31	3591	1019	1403	0°
31	A630A31	3428	1023	1501	45°
32	MS3339-3-9	3668	911	2361	0°

Figure 17

3G2580A00115
PASSENGERS CABIN
LINERS INSTALLATION HEELS

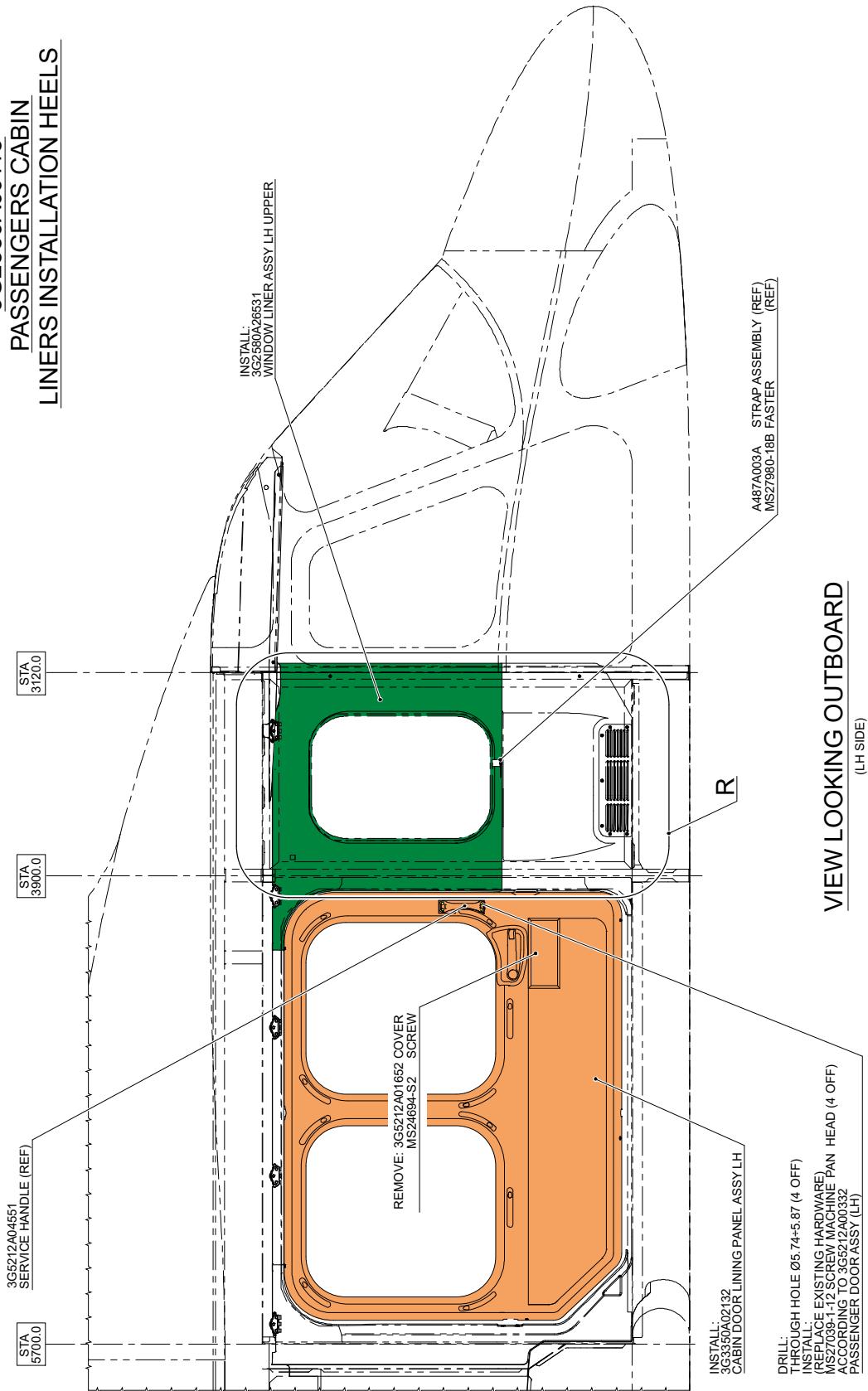


Figure 18

S.B. N°139-720 OPTIONAL
DATE: April 22, 2024
REVISION: /

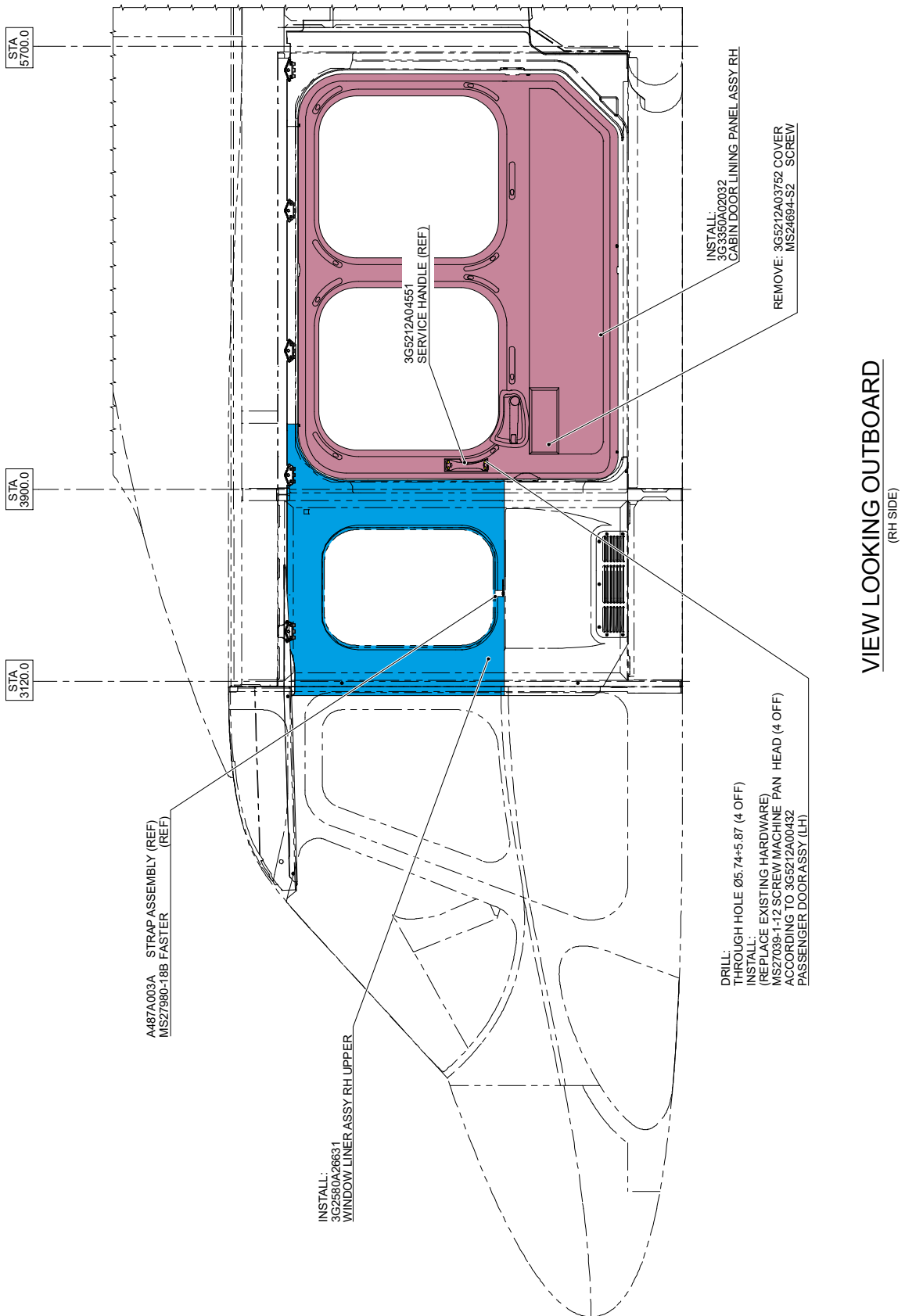
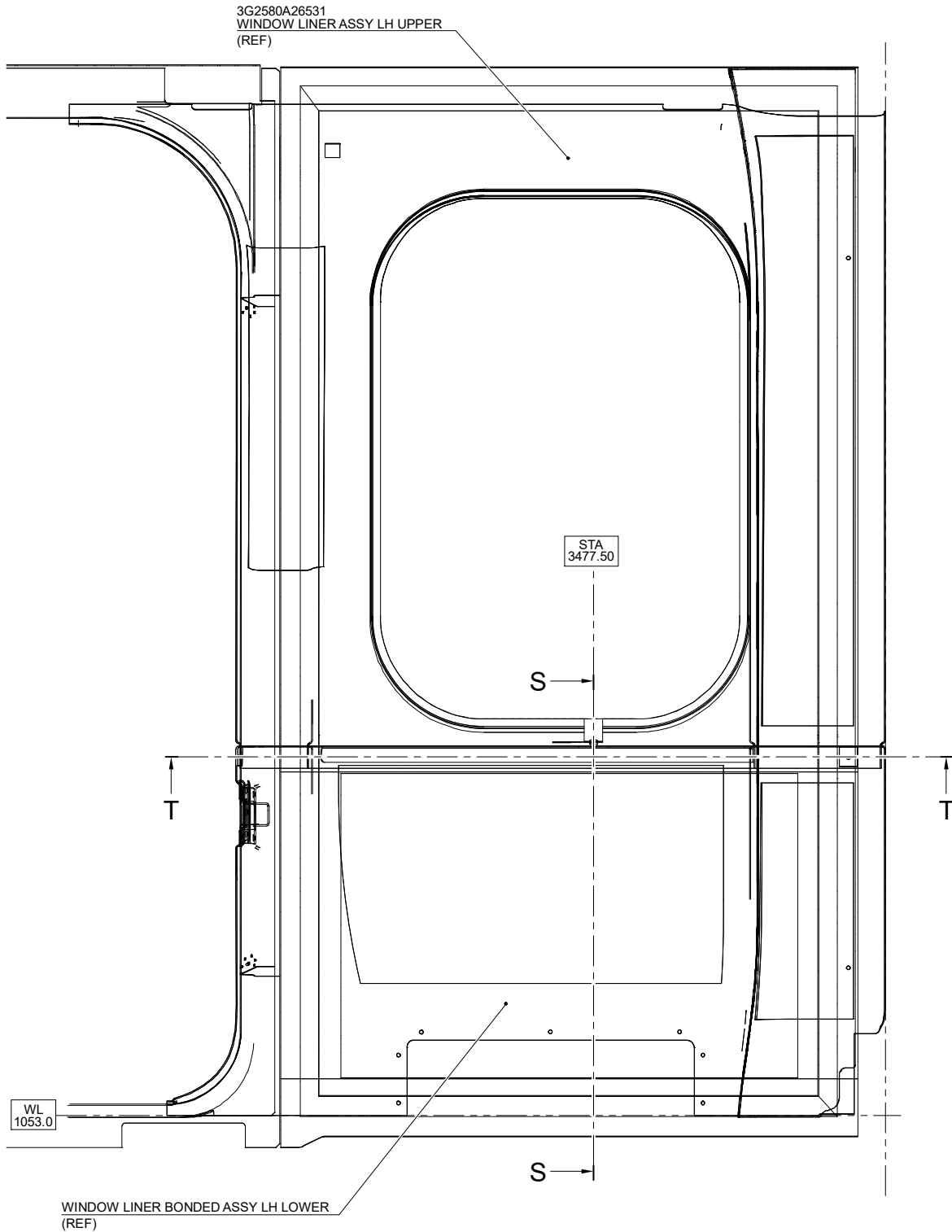


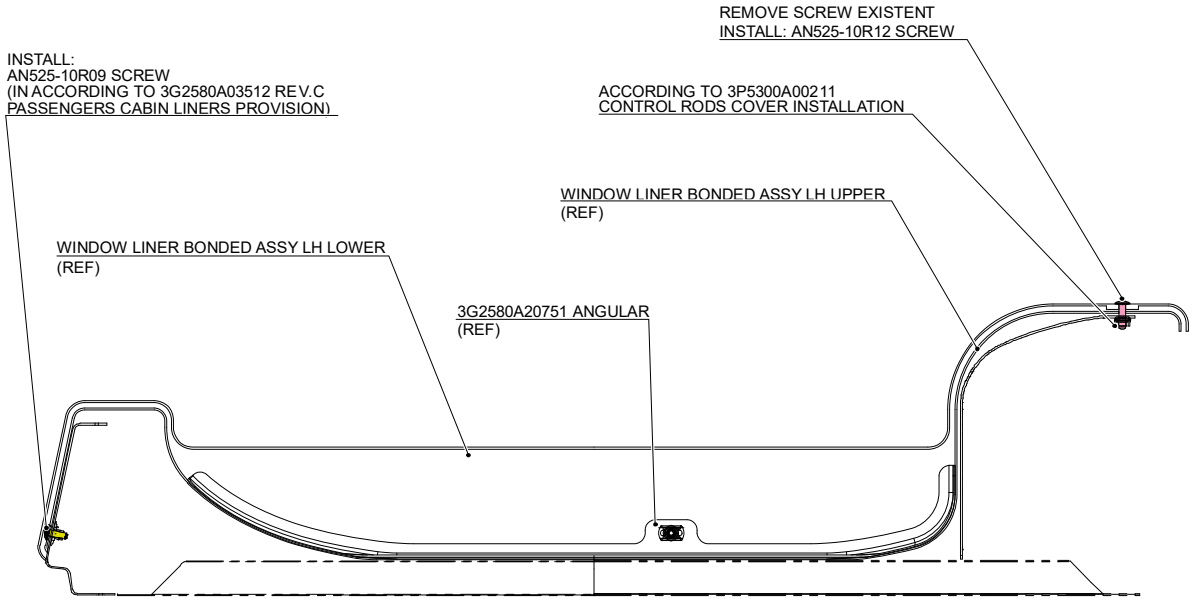
Figure 19



DETAIL R
(TYP OPPOSITE SIDE)
STRUCTURES AND SYSTEMS ARE PARTIALLY
OMITTED FOR BETTER CLARITY PURPOSE

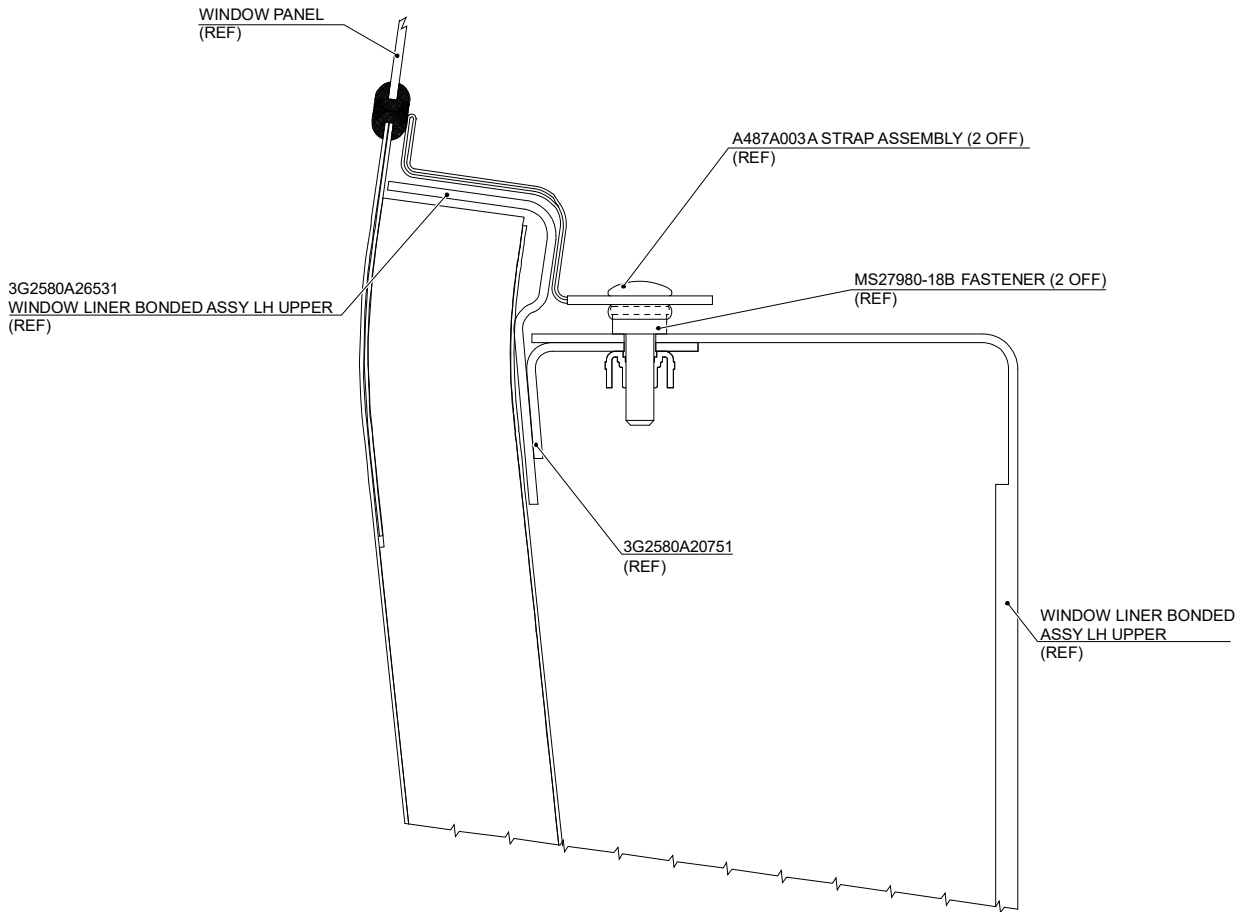
Figure 20

S.B. N°139-720 OPTIONAL
DATE: April 22, 2024
REVISION: /



SECTION T-T

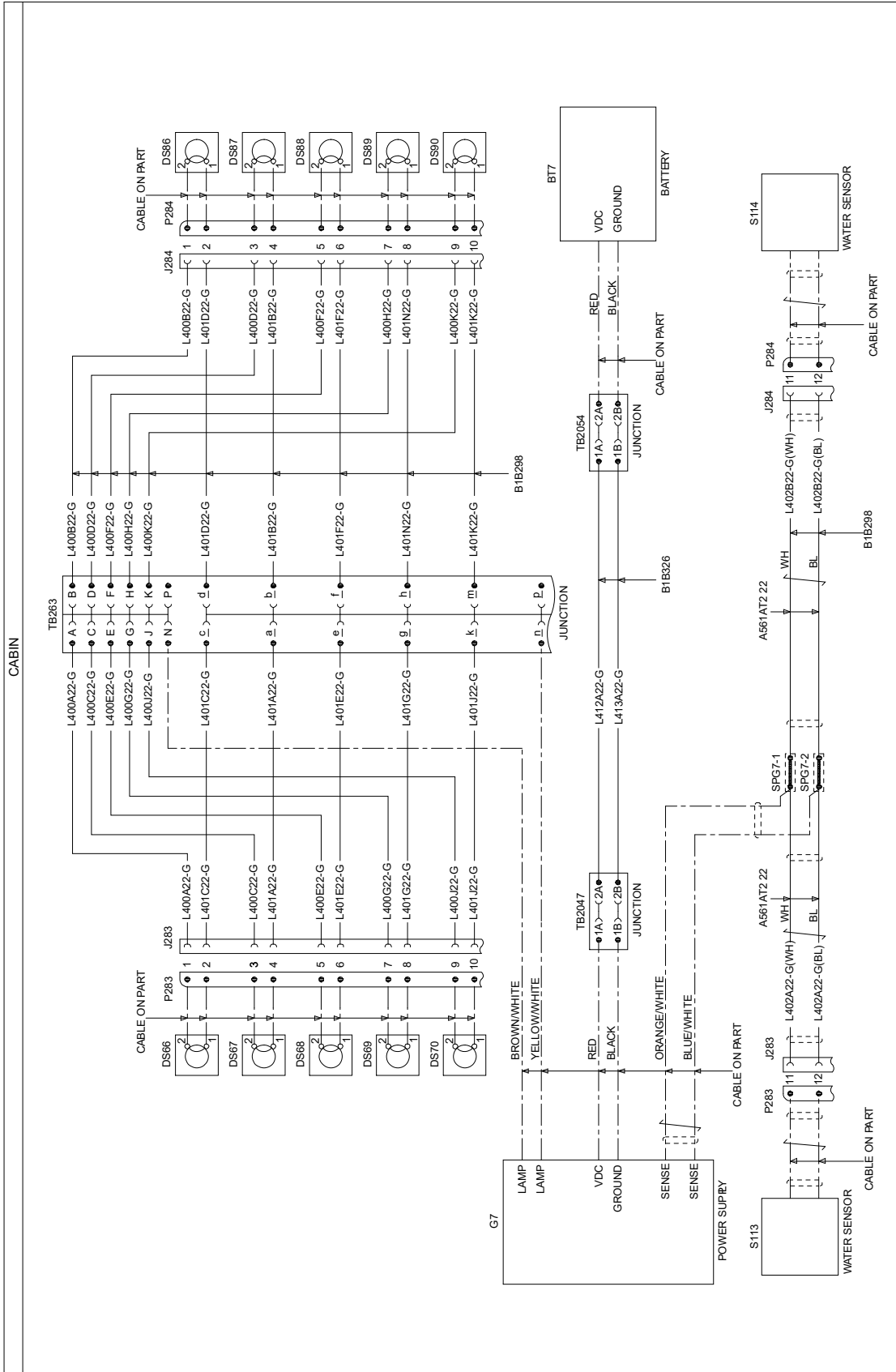
STRUCTURES AND SYSTEMS ARE PARTIALLY
OMITTED FOR BETTER CLARITY PURPOSE



SECTION S-S

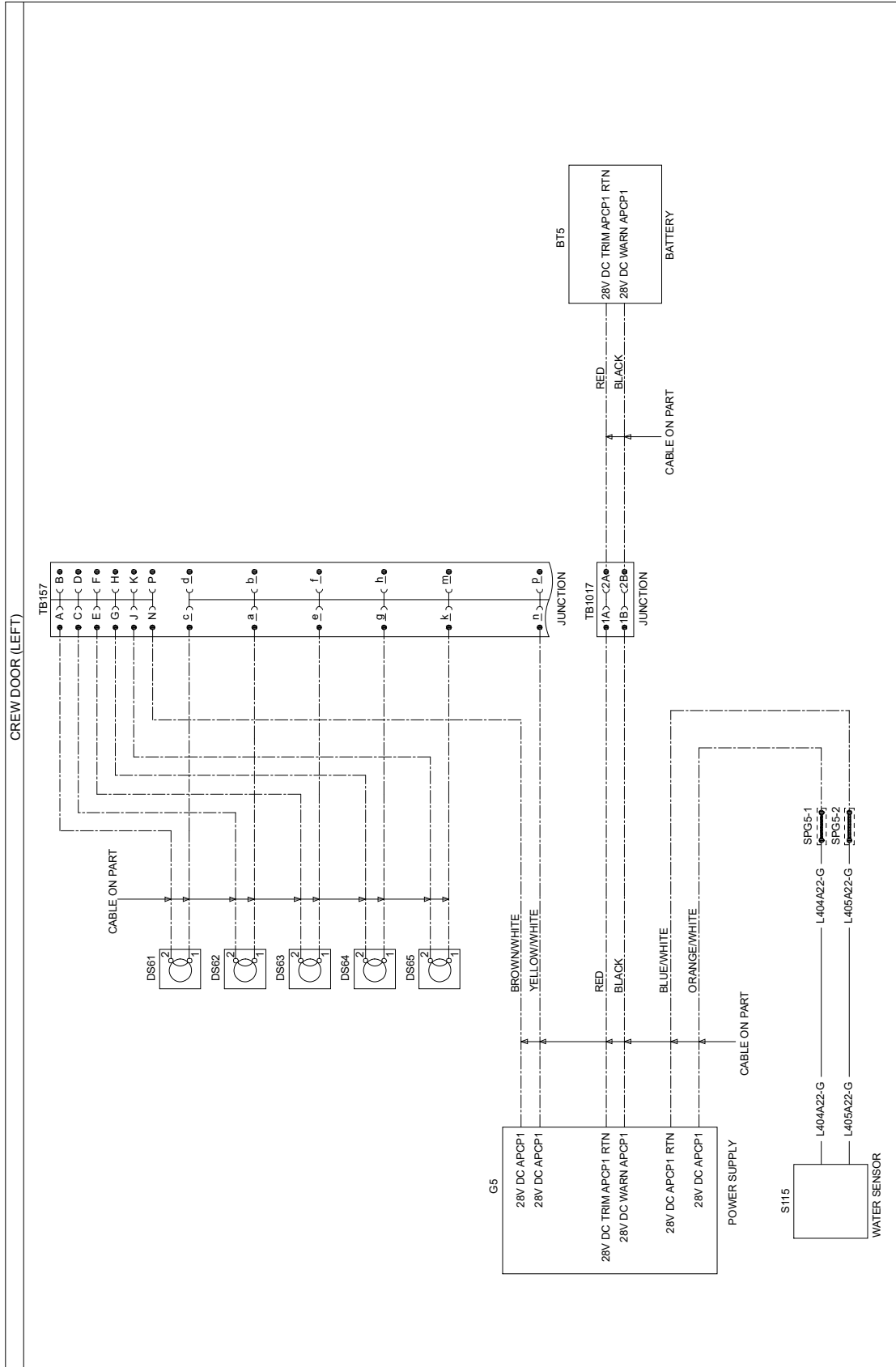
STRUCTURES AND SYSTEMS ARE PARTIALLY
OMITTED FOR BETTER CLARITY PURPOSE

Figure 21



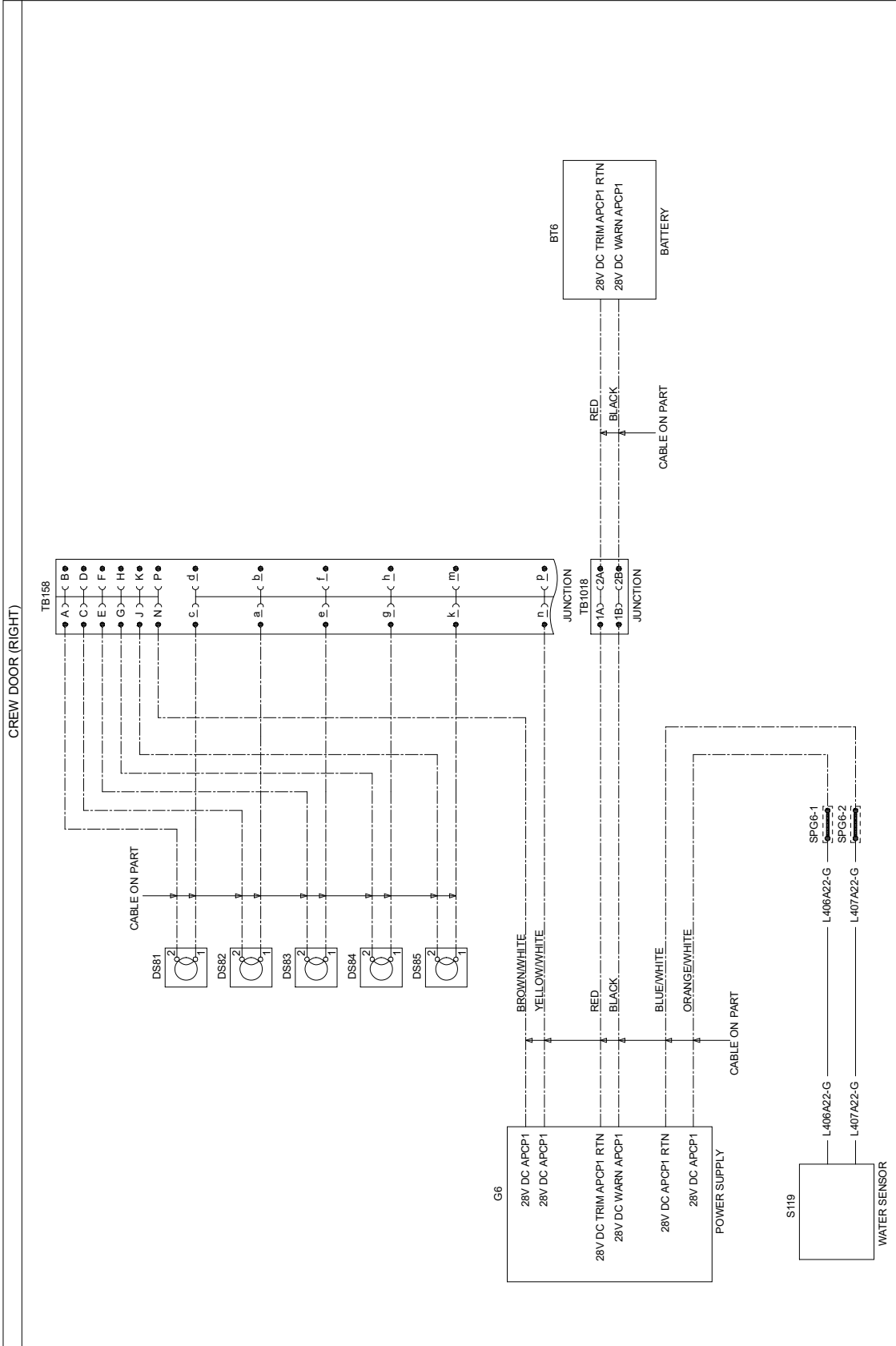
FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM B1A298 UNLESS SPECIFIED
ALL CABLES ARE OF TYPE A556AT 22 UNLESS SPECIFIED

Figure 22



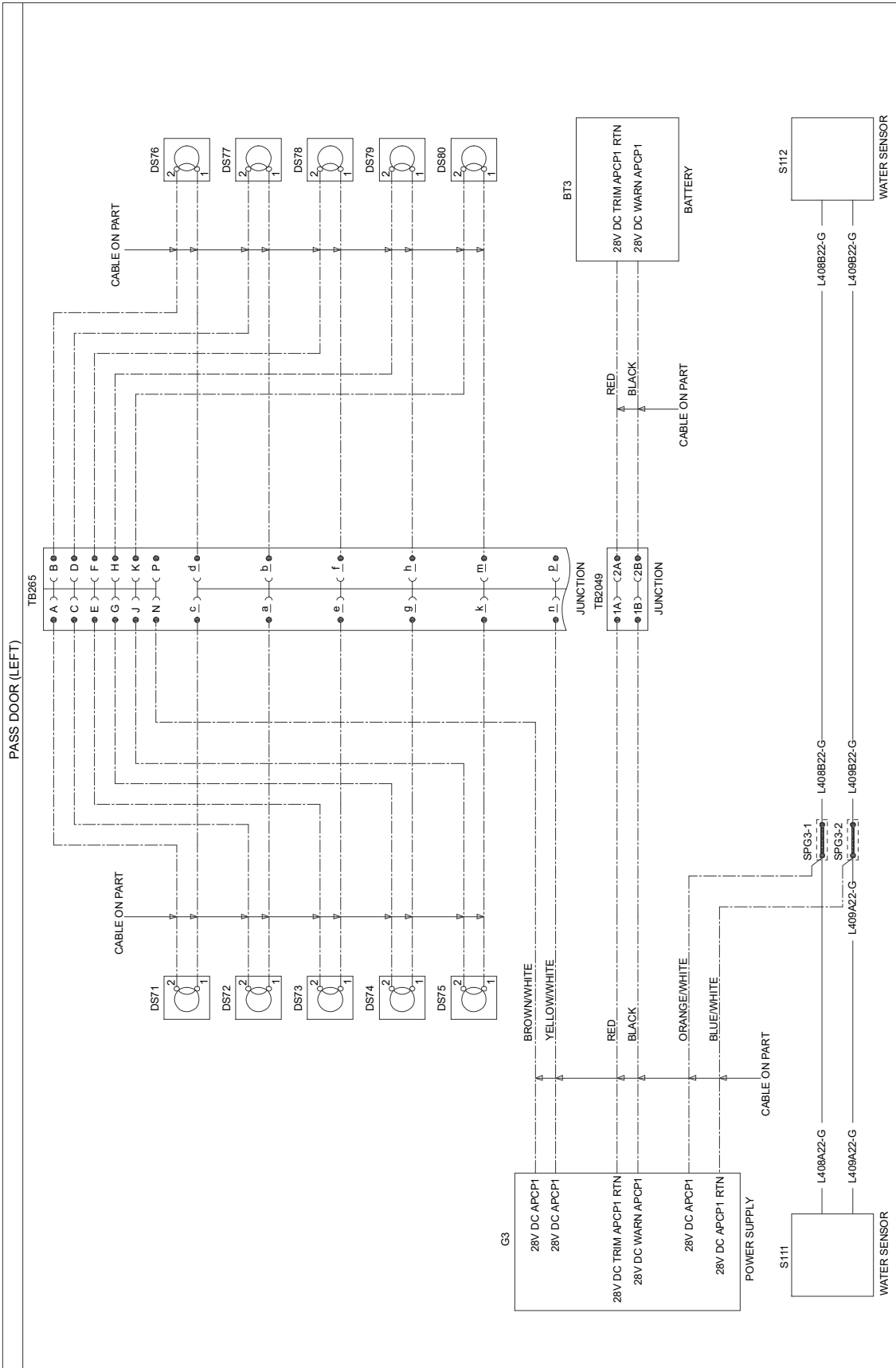
FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM/A1A264 UNLESS SPECIFIED
ALL CABLES ARE OF TYPE A566AT 22 UNLESS SPECIFIED

Figure 23



FUNCTIONAL NOTES
ALL CABLES ARE IN LOOMA1B275 UNLESS SPECIFIED
ALL CABLES ARE OF TYPE A556AT 22 UNLESS SPECIFIED

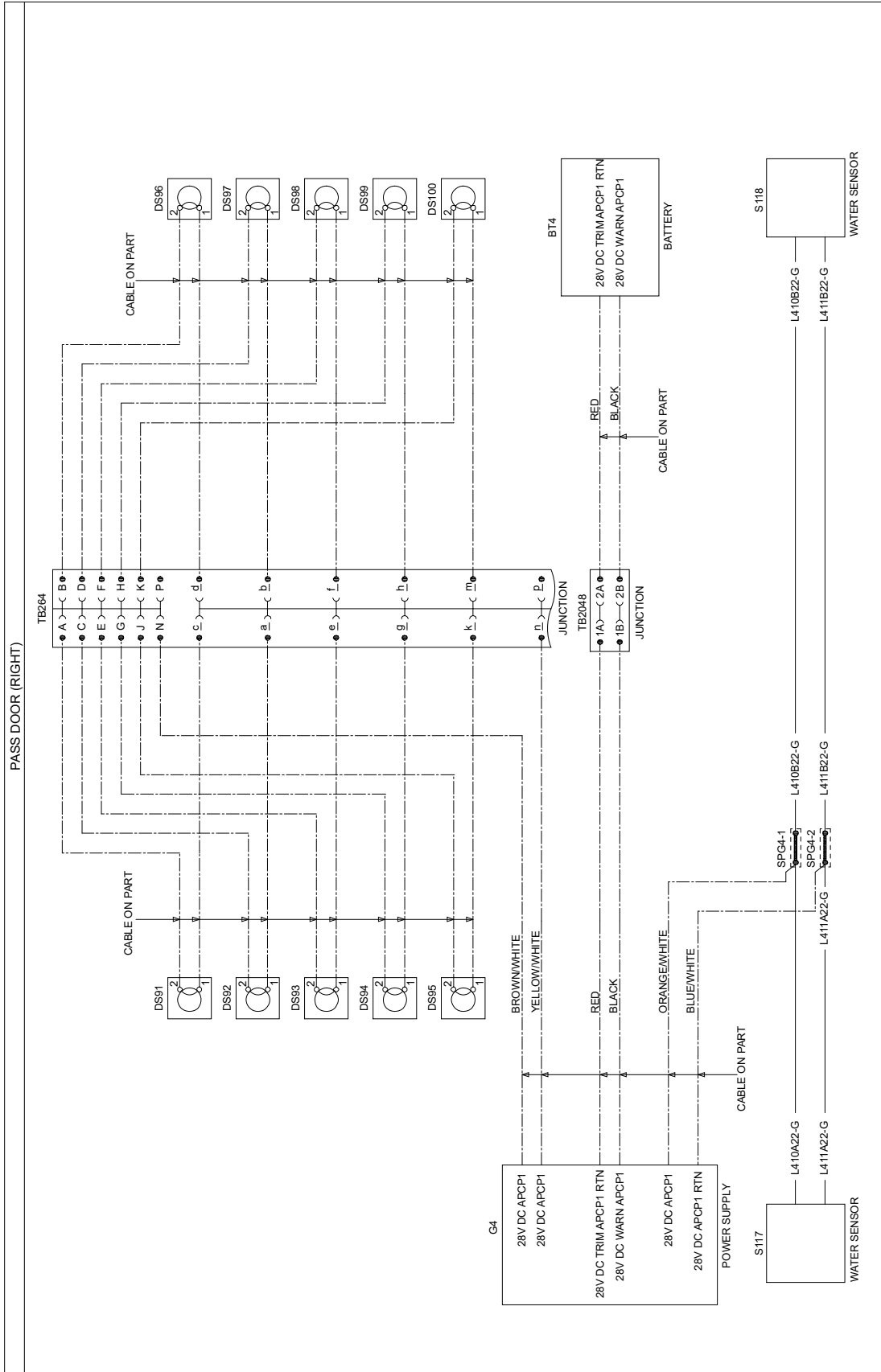
Figure 24



3G3350W00211
WIRING DIAGRAM HEEL LIGHTS
SHEET 4

FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM B1A300 UNLESS SPECIFIED
ALL CABLES ARE OF TYPE A566A122 UNLESS SPECIFIED

Figure 25



3G3350W00211
WIRING DIAGRAM HEEL LIGHTS
SHEET 5

FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM B1B300 UNLESS SPECIFIED
ALL CABLES ARE OF TYPE A556AT 22 UNLESS SPECIFIED

Figure 26

Cable Assy	Wire		From		Electrical Contact	To		Electrical Contact
	ID	Col.	Ref Des	Pin		Ref Des	Pin	
3G9B01A29801 (B1A298)	L400A22-G		TB263	A	A523A-A01	J283	1	M39029/56-348
	L400C22-G		J283	3	M39029/56-348	TB263	C	A523A-A01
	L400E22-G		J283	5	M39029/56-348	TB263	E	A523A-A01
	L400G22-G		J283	7	M39029/56-348	TB263	G	A523A-A01
	L400J22-G		J283	9	M39029/56-348	TB263	J	A523A-A01
	L401A22-G		J283	4	M39029/56-348	TB263	a	A523A-A01
	L401C22-G		J283	2	M39029/56-348	TB263	c	A523A-A01
	L401E22-G		J283	6	M39029/56-348	TB263	e	A523A-A01
	L401G22-G		J283	8	M39029/56-348	TB263	g	A523A-A01
	L401J22-G		J283	10	M39029/56-348	TB263	k	A523A-A01
	L402A22-G	BL	J283	12	M39029/56-348	SPG7-2	*	N.A.
	L402A22-G	WH	J283	11	M39029/56-348	SPG7-1	*	N.A.
3G9B01B29801 (B1B298)	L400B22-G		TB263	B	A523A-A01	J284	1	M39029/56-348
	L400D22-G		TB263	D	A523A-A01	J284	3	M39029/56-348
	L400F22-G		TB263	F	A523A-A01	J284	5	M39029/56-348
	L400H22-G		TB263	H	A523A-A01	J284	7	M39029/56-348
	L400K22-G		TB263	K	A523A-A01	J284	9	M39029/56-348
	L401B22-G		TB263	b	A523A-A01	J284	4	M39029/56-348
	L401D22-G		TB263	d	A523A-A01	J284	2	M39029/56-348
	L401F22-G		TB263	f	A523A-A01	J284	6	M39029/56-348
	L401K22-G		TB263	m	A523A-A01	J284	10	M39029/56-348
	L401N22-G		TB263	h	A523A-A01	J284	8	M39029/56-348
	L402B22-G	WH	SPG7-1	*	N.A.	J284	11	M39029/56-348
	L402B22-G	BL	SPG7-2	*	N.A.	J284	12	M39029/56-348
3G9B01B32601 (B1B326)	L412A22-G		TB2047	2A	A523A-A05	TB2054	1A	A523A-A05
	L413A22-G		TB2047	2B	A523A-A05	TB2054	1B	A523A-A05

Figure 27

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.