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SERVICE BULLETIN

N° **139-582**

**OPTIONAL**

DATE: November 9, 2023

REV. : /

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**TITLE**

**ATA 33 – NVG LIGHT ELECTRICAL RETROMOD**

**REVISION LOG**

First Issue

# 1. PLANNING INFORMATION

## A. EFFECTIVITY

AW139 helicopters S/N 31250 and S/N 31267.

## B. COMPLIANCE

At Customer's option..

## C. CONCURRENT REQUIREMENTS

N.A.

## D. REASON

This Service Bulletin is issued in order to provide the necessary instruction on how to perform the NVG light electrical retromod P/N 3G3360P00311.

LH issued this SB for the following reason:

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

## E. DESCRIPTION

This Service Bulletin gives instructions to perform the NVG light electrical retromod, it covers NVG light variant C/A installation on helicopters already equipped with kit NVG.

## 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 MMH are deemed necessary approximately four hundred fifty-five (455) MMH;

MMH are based on hands-on time and can change with personnel and facilities available.

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)
	2.6	
<b>LONGITUDINAL BALANCE</b>	7009.0	18223.4
<b>LATERAL BALANCE</b>	230.0	598.0

## 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.	-
DM02 39-A-06-41-00-00A-010A-A	Access door panel remove procedure.	-
DM03 39-A-11-00-01-00A-720A-A	Decal – Install procedure.	-

Following Data Modules refer to CSPP:

<u>DATA MODULE</u>	<u>DESCRIPTION</u>	<u>PART</u>
DM04 CSPP-A-20-10-01-00A-259A-A	Ground connections - Other procedures to protect surfaces.	-
DM05 CSPP-A-20-10-13-00A-622A-D	Electrical contacts - Crimp.	-
DM06 CSPP-A-20-10-01-00A-691A-D	Electrical wires and cables - Marking.	-

Following Data Modules refer to CSRP:

<u>DATA MODULE</u>	<u>DESCRIPTION</u>	<u>PART</u>
DM07	CSRP-A-51-42-00-00A-720A-D Potted Inserts – Install procedure.	-

## 2) ACRONYMS & ABBREVIATIONS

AMDI	Aircraft Material Data Information
AMP	Aircraft Maintenance Publication
AR	As Required
CB	Circuit Breaker
CSPP	Common Standard Practices Publication
CSRP	Common Structural Repair Publication
DM	Data Module
DOA	Design Organization Approval
EASA	European Aviation Safety Agency
FH	Flight Hours
IPD	Illustrated Parts Data
ITEP	Illustrated Tool and Equipment Publication
LH	Leonardo Helicopters
MAU	Modular Avionic Unit
MMH	Maintenance Man Hours
N.A.	Not Applicable
NVG	Night Vision Goggles
P/N	Part Number
SB	Service Bulletin
S/N	Serial Number

## 3) ANNEX

N.A.

## J. PUBLICATIONS AFFECTED

N.A.

## K. SOFTWARE ACCOMPLISHMENT SUMMARY

N.A.



## 2. MATERIAL INFORMATION

### A. REQUIRED MATERIALS

#### 1) PARTS

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
1	3G3360P00311		NVG LIGHT ELECTRICAL RETROMOD	REF	.		-
2	3G5310A53711		NVG LIGHTS STRUCTURAL PROVISION	REF	..		-
3	3P5340A27151		Cover	1	...		-
4	3G5310P12611		NVG LIGHT STRUCTURAL PROVISION	REF	..		-
5	3G5317A49551		Cover	4	...		139-582L1
6	3G5318A05751		Cover	1	...		139-582L1
7	A428A08C04		Screw	6	...		139-582L1
8	A428A08C06		Screw	6	...		139-582L1
9	A428A3C04		Screw	4	...		139-582L1
10	NAS1832-08-4		Insert	6	...		139-582L1
11	NAS1832C3-3M		Insert	4	...		139-582L1
12	NAS1836-08-13		Insert	6	...		139-582L1
13	3G3360A00932	3G3360A00932A1R	Stowage Panel Assy	1	..	(1)	139-582L1
14	3G9B01A48802		NVG LIGHT VARIANT C/A (B1A488)	REF	..		-
15	A523A-A05		Electrical contact	2	...		139-582L1
16	A556A-T22	3G9B01A48801	Wire	1 m	...		139-582L1
17	A596A04		Junction	1	...		139-582L1
18	M39029/56-351		Electrical contact	2	...		139-582L1
19	3G9B01B58902	3G9B01B58901	NVG Light Variant C/A (B1B589)	1	..		139-582L1
20	3G9C01A27902	3G9C01A27901	NVG Light Variant C/A (C1A279)	1	..		139-582L1
21	3G9C01B32302	3G9C01B32301	NVG Light Variant C/A (C1B323)	1	..		139-582L1
22	3G9C01B34802	3G9C01B34801	NVG Light Variant C/A (C1B348)	1	..		139-582L1
23	3G9F01B22302	3G9F01B22301	NVG Light Variant C/A (F1B223)	1	..		139-582L1
24	3G9A01A39202		NVG LIGHT VARIANT C/A (A1A392)	REF	..		-
25	A556A-T22		Electrical wire	18 m	...		139-582L1
26	M39029/56-351		Electrical contact	1	...		139-582L1
27	M39029/56-348	3G9A01A39201	Electrical contact	1	...		139-582L1
28	M39029/57-354		Electrical contact	1	...		139-582L1
29	A523A-B02		Electrical contact	6	...		139-582L1
30	M81824/1-2		Electrical splice	1	...		139-582L1
31	3G9A01B39102		NVG LIGHT VARIANT C/A (A1B391)	REF	..		-
32	A556A-T22		Electrical wire	45 m	...		139-582L1
33	A561A-T2-22		Electrical wire	6 m	...		139-582L1
34	A561A-T3-22		Electrical wire	6 m	...		139-582L1
35	001104-202-02	3G9A01B39101	Electrical contact	2	...		139-582L1
36	M39029/56-351		Electrical contact	19	...		139-582L1
37	M39029/58-360		Electrical contact	11	...		139-582L1
38	M81824/1-1		Electrical splice	1	...		139-582L1
39	M81824/1-2		Electrical splice	2	...		139-582L1
40	M23053/8-004-C		Insulation sleeve	4	...		139-582L1

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
41	D38999/26WD19SA		Connector	1	...		139-582L1
42	D38999/26WD19SN		Connector	1	...		139-582L1
43	A532A400-1502T		Backshell	2	...		139-582L1
<b>44</b>	<b>3G9B01B46602</b>		<b>NVG LIGHT VARIANT C/A (B1B466)</b>	<b>REF</b>	<b>..</b>		<b>-</b>
45	A556A-T22		Electrical wire	30 m	...		139-582L1
46	A561A-T1-22		Electrical wire	12 m	...		139-582L1
47	A561A-T2-22		Electrical wire	5 m	...		139-582L1
48	A523A-A05	3G9B01B46601	Electrical contact	2	...		139-582L1
49	M39029/56-348		Electrical contact	8	...		139-582L1
50	M39029/56-351		Electrical contact	4	...		139-582L1
51	M39029/58-363		Electrical contact	10	...		139-582L1
52	M81824/1-1		Electrical splice	2	...		139-582L1
53	A596A04		Terminal junction	1	...		139-582L1
<b>54</b>	<b>3G9C01B26402</b>		<b>NVG LIGHT VARIANT C/A (C1B264)</b>	<b>REF</b>	<b>..</b>		<b>-</b>
55	A556A-T22		Electrical wire	30 m	...		139-582L1
56	A561A-T1-22		Electrical wire	7 m	...		139-582L1
57	A523A-A05		Electrical contact	2	...		139-582L1
58	M39029/56-348		Electrical contact	2	...		139-582L1
59	M39029/56-351	3G9C01B26401	Electrical contact	3	...		139-582L1
60	M39029/58-363		Electrical contact	5	...		139-582L1
61	M81824/1-1		Electrical splice	4	...		139-582L1
62	A596A04		Terminal junction	1	...		139-582L1
63	M23053/8-004-C		Insulation sleeve	2	...		139-582L1
64	D38999/20WA35SN		Connector	1	...		139-582L1
65	A532A400-0902T		Backshell	1	...		139-582L1
<b>66</b>	<b>3G9D01B21302</b>		<b>NVG LIGHT VARIANT C/A (D1B213)</b>	<b>REF</b>	<b>..</b>		<b>-</b>
67	A556A-T22		Electrical wire	1 m	...		139-582L1
68	A561A-T1-22		Electrical wire	5 m	...		139-582L1
69	A561A-T1-20		Electrical wire	2 m	...		139-582L1
70	A561A-T2-20		Electrical wire	5 m	...		139-582L1
71	A561A-T2-22		Electrical wire	12 m	...		139-582L1
72	A561A-T3-22		Electrical wire	6 m	...		139-582L1
73	M39029/58-363	3G9D01B21301	Electrical contact	15	...		139-582L1
74	M39029/58-364		Electrical contact	2	...		139-582L1
75	M39029/56-351		Electrical contact	1	..		139-582L1
76	M81824/1-1		Electrical splice	1	...		139-582L1
77	M23053/8-004-C		Insulation sleeve	10	...		139-582L1
78	M23053/8-005-C		Insulation sleeve	2	...		139-582L1
79	D38999/26JD97PN		Connector	1	...		139-582L1
80	A529A400-1502B		Backshell	1	...		139-582L1
81	A388A3E18C		Standoff	2	..		139-582L1
82	A388A3E06C		Standoff	2	..		139-582L1
83	A574A01-03		Insulation Sleeving	1	..		139-582L1
84	A578A07-9		Sleeve Marker Cable	1	..		139-582L1
85	AW001CB03H		Clamp	2	..		139-582L1
86	AW001CK03LC		Lacing Cord	10 m	..		139-582L1
87	AW001CL001-N6		Support	4	..		139-582L1
88	AW001CL509-N6		Support	2	..		139-582L1
89	AW001CL000A-X3		Support	1	..		139-582L1
90	MS20470AD4-4		Rivet	0.1 kg	..		139-582L1
91	A647A01		Relay	1	..		139-582L1
92	A647A02		Socket Relay	1	..		139-582L1
93	ED300K253		Decal	1	..		139-582L1

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
94	ED300PL58		Decal	1	..		139-582L1
95	ED300TB2122		Decal	1	..		139-582L1
96	ED300TB2175		Decal	1	..		139-582L1
97	ED300TB3036		Decal	1	..		139-582L1
98	ED300TB3037		Decal	1	..		139-582L1
99	ED300TB600		Decal	1	..		139-582L1
100	M23053/5-107-0		Insulation Sleeving	1 m	..		139-582L1
101	M85049/95-16A-A		Plate	1	..		139-582L1
102	MS21919WDG3	AS21919WDG03	Clamp	5	..		139-582L1
103	MS21919WDG8	AS21919WDG08	Clamp	1	..		139-582L1
104	MS90376-12Y		Cap	1	..		139-582L1
105	NAS1149D0332J		Washer	8	..		139-582L1
106	NAS1190E3P4AK		Screw	2	..		139-582L1
107	NAS1190E3P5AK		Screw	2	..		139-582L1
108	NAS1801-3-14		Screw	1	..		139-582L1
109	NAS1801-3-16		Screw	3	..		139-582L1
110	NAS43DD3-40N		Spacer	4	..		139-582L1
111	MS24693-4B		Screw	4	..		139-582L1
112	M85049/95-10A-A		Nutplate	1	..		139-582L1
113	3G5316A78751		Support	1	..		139-582L1

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
114	MMM-A-132 Type 1, Class 3 199-05-002 Type II, Class 2	Adhesive EA934NA (C057)	AR	(2)	-
115	MMM-A-132, Type 2, Class II 199-05-002, Type I, Class 2	Adhesive EA9309.3NA (C021)	AR	(2)	-
116	199-05-004 Type II Class B1	Sealant Naftoseal MC-780 (C445)	AR	(2)	-
117	EN6049-006-05-5	Nomex sleeve	AR	(2)	-
118	A578A02-9	Marker sleeve	AR	(2)	-
119	EN6049-006-25-5	Nomex Green	AR	(2)	-
120	EN6049-006-32-5	Nomex Green	AR	(2)	-
121	A574A01-02	Protection boot	AR	(2)	-

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

## 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
139-582L1	1		-

## **NOTES**

(1) P/N 3G3360A00932A1R is part of Stowage Panel Assy P/N 3G3360A00932.

(2) Item to be procured as local supply.

## **B. SPECIAL TOOLS**

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

## **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.
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- 1. In accordance with AMP DM 39-A-00-20-00-00A-120A-A, prepare the helicopter on ground for a safe maintenance. Disconnect the battery, all electrical power sources and/or the external power supply.
  - 2. In accordance with AMP DM 39-A-06-41-00-00A-010A-A and with reference to Figures 1 thru 19, gain access to the area affected by the installation and perform NVG light electrical retromod P/N 3G3360P00311 as described in the following procedure:
    - 2.1 With reference to Figure 25, perform NVG lights structural provision P/N 3G5310A53711 as described in the following procedure:

### NOTE

If needed, slightly adapt the positioning of the cut-out to avoid interference with the bonding strip.

- 2.1.1 With reference to Figure 25 View A-A and Detail C, perform the indicated cut-out of the honeycomb core and internal skin of the panel P/N 3P5340A01131 in accordance with the dimensioning shown.
- 2.1.2 With reference to Figure 25 View A-A and Section B-B, temporarily locate the cover P/N 3P5340A27151 in its installation position and countermark the indicated holes on the external skin of the panel P/N 3P5340A01131.
- 2.1.3 With reference to Figure 25 View A-A, perform the cut out of the external skin of the panel P/N 3P5340A01131 in the positions countermarked at the previous step.
- 2.1.4 With reference to Figure 25 Detail C and Section B-B, install the cover P/N 3P5340A27151 by means of the adhesive EA934NA (C057).
- 2.2 With reference to Figures 1 thru 4, perform NVG light structural provision P/N 3G5310P12611 as described in the following procedure:
  - 2.2.1 With reference to Figure 2, drill one  $\varnothing$  12.0 hole through left side wall assy.
  - 2.2.2 With reference to Figure 2 Section C-C, seal honeycomb edge of the previously performed hole by means of adhesive EA934NA (C057).
  - 2.2.3 With reference to Figure 2, drill n°3  $\varnothing$  14.25 to 14.38 insert holes on the left side wall assy.
  - 2.2.4 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 2 Section C-C, install n°3 inserts P/N NAS1832-08-4 by means of adhesive EA934NA (C057).
  - 2.2.5 With reference to Figure 2 Detail A, install cover P/N 3G5317A49551 by means of n°3 screws P/N A428A08C06. Seal all around the cover with sealant (C445).
  - 2.2.6 Repeat steps 2.2.1 thru 2.2.5 for RH side.
  - 2.2.7 With reference to Figure 3, drill one  $\varnothing$  12.0 hole through FWD lower panel assy.
  - 2.2.8 With reference to Figure 3 Section D-D, seal honeycomb edge of the previously performed hole by means of adhesive EA934NA (C057).
  - 2.2.9 With reference to Figure 3, drill n°3  $\varnothing$  11.48 to 11.61 insert holes on the FWD lower panel assy.

- 2.2.10 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 3 Section D-D, install n°3 inserts P/N NAS1836-08-13 by means of adhesive EA934NA (C057).
- 2.2.11 With reference to Figure 3 Detail B, install cover P/N 3G5317A49551 by means of n°3 screws P/N A428A08C04. Seal all around the cover with sealant (C445).
- 2.2.12 Repeat steps 2.2.7 thru 2.2.11 for RH side.
- 2.2.13 With reference to Figure 4, drill one Ø 12.0 hole through rear cowling central assy and grounding strap.
- 2.2.14 With reference to Figure 4 Section F-F, seal honeycomb edge of the previously performed hole by means of adhesive EA934NA (C057).
- 2.2.15 With reference to Figure 4, drill n°4 Ø 14.25 to 14.37 insert holes on the rear cowling central assy and grounding strap.
- 2.2.16 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 4 Section F-F, install n°4 inserts P/N NAS1832C3-3M by means of adhesive EA934NA (C057).
- 2.2.17 With reference to Figure 4 View E, install cover P/N 3G5318A05751 by means of n°4 screws P/N A428A3C04. Seal all around the cover with sealant (C445).
- 2.3 With reference to Figure 12 View L, at position n°1 install standoff P/N A388A3E18C by means of adhesive EA9309.3NA (C021) and install clamp P/N AW001CB03H by means of washer P/N NAS1149D0332J and screw P/N NAS1190E3P5AK.
- 2.4 With reference to Figure 12 Detail N, at position n°2 install support P/N AW001CL000A-X3 by means of adhesive EA9309.3NA (C021).
- 2.5 With reference to Figure 12 Detail N, at position n°3 install standoff P/N A388A3E18C by means of adhesive EA9309.3NA (C021) and install clamp P/N AW001CB03H by means of washer P/N NAS1149D0332J and screw P/N NAS1190E3P5AK.
- 2.6 With reference to Figure 12 Detail N, relocate connector DS116P1 as indicated.
- 2.7 With reference to Figure 13 View C, at position n°4 install standoff P/N AW001CL001-N6 by means of adhesive EA9309.3NA (C021).
- 2.8 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 13 View C, install decal P/N ED300TB2175 in an area adjacent to previously installed standoff.
- 2.9 With reference to Figure 13 View C, at position n°5 install one support P/N AW001CL509-N6 by means of one rivet P/N MS20470AD4-4.

- 2.10 With reference to Figure 13 View D, at position n°6 install standoff P/N AW001CL001-N6 by means of adhesive EA9309.3NA (C021).
- 2.11 With reference to Figure 13 View D, install terminal board (TB2122) P/N A596A04.
- 2.12 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 13 View D, install decal P/N ED300TB2122 in an area adjacent to previously installed terminal board.
- 2.13 With reference to Figure 13 View D, at position n°7 install one support P/N AW001CL509-N6 by means of one rivet P/N MS20470AD4-4.
- 2.14 With reference to Figure 15, at position n°8 install standoff P/N AW001CL001-N6 by means of adhesive EA9309.3NA (C021).
- 2.15 With reference to Figure 15, install terminal board (TB3036) P/N A596A04.
- 2.16 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 15, install decal P/N ED300TB3036 in an area adjacent to previously installed terminal board.
- 2.17 With reference to Figure 16, at position n°9 install standoff P/N AW001CL001-N6 by means of adhesive EA9309.3NA (C021).
- 2.18 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 16, install decal P/N ED300TB3037 in an area adjacent to previously installed standoff.
- 2.19 With reference to Figure 19, at positions n°10 and n°11 install n°2 standoffs P/N A388A3E06C by means of adhesive EA9309.3NA (C021) and install n°2 clamps P/N MS21919WDG3 by means of n°2 washers P/N NAS1149D0332J and n°2 screws P/N NAS1190E3P4AK.
- 2.20 With reference to Figure 17, at position n°12 install clamp P/N MS21919WDG3, spacer P/N NAS43DD3-40N by means of washer P/N NAS1149D0332J and screw P/N NAS1801-3-14.
- 2.21 With reference to Figure 17, at positions n°13 and 14 install n°2 clamps P/N MS21919WDG3, n°2 spacers P/N NAS43DD3-40N by means of n°2 washers P/N NAS1149D0332J and n°2 screws P/N NAS1801-3-16.
- 2.22 With reference to Figure 17, at position n°15 install clamp P/N MS21919WDG8, spacer P/N NAS43DD3-40N by means of washer P/N NAS1149D0332J and screw P/N NAS1801-3-16.
- 2.23 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 17, install decal P/N ED300TB600 in an area adjacent to previously installed standoff.
- 2.24 With reference to Figure 8, install the socket relay P/N A647A02 and the relay P/N A647A01.



- 2.25 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 8, install decal P/N ED300K253 in an area adjacent to previously installed relay.
- 2.26 With reference to Figures 21, 23 and 24 wiring diagrams, remove or stow the electrical connections between:
- Connector A1-1P4 and connector K50P1 (cable identification L201A22-G);
  - Connector K50P1 and connector TB115P1 (cable identification L199F22-G);
  - Connector J300 and connector P400 (cable identification L70C20-G);
  - Connector TB400P1 and connector P400 (cable identification L105A20N-G);
  - Splice SP406 and connector P400 (cable identification L101D20-G);
  - Connector P210 and connector DS116P1 (cable identification L450B20-G);
- 2.27 With reference to Figures 19 View G-G and Detail P, disconnect the connector P400, install cap P/N MS90376-12Y and stowed as indicated.

**NOTE**

Use braided tubing P/N EN6049-006-05-5 where cable assemblies chafing or contact with structure may occur.

- 2.28 With reference to Figure 8, Figure 21 wiring diagram, Table 1 on Figure 26 and Table 6 on Figure 29 assemble the NVG light variant C/A P/N 3G9A01A39202 (A1A392) and perform the electrical connections as described in the following procedure:
- 2.28.1 Cut wires of adequate length and lay them down between indicated connectors following the existing routes as shown.
- 2.28.2 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D, crimp on wires indicated electrical contacts by means of proper crimping tool.
- 2.28.3 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D, mark wires as indicated by means of marker sleeves P/N A578A02-9.
- 2.28.4 Perform the electrical connections of previously assembled cable assy.
- 2.29 With reference to Figures 7, Figures 20 and 21 wiring diagrams, Table 2 on Figure 26 and Table 6 on Figure 29 assemble the NVG light variant C/A P/N 3G9A01B39102 (A1B391) and perform the electrical connections as described in the following procedure:
- 2.29.1 Cut wires of adequate length and lay them down between indicated connectors following the existing routes as shown.
- 2.29.2 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D, crimp on wires indicated electrical contacts by means of proper crimping tool.

- 2.29.3 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D, mark wires as indicated by means of marker sleeves P/N A578A02-9.
- 2.29.4 Perform the electrical connections of previously assembled cable assy.

**NOTE**

For the connection between PL58P2 pin V and connector P120 pin 60, and the connection between connector J120 pin 60 and PL1P6 pin a, if it is not possible to use wire P/N A556A-T22 as indicated, use wire P/N A556AT2-20 and perform both the connections with pin 60 through electrical splice P/N M81824/1-1 and wire P/N A556A-T22.

- 2.30 With reference to Figures 7, 10, 13 thru 15, Figures 20 and 21 wiring diagrams, Table 3 on Figure 27 and Table 6 on Figure 29 assemble the NVG light variant C/A P/N 3G9B01B46602 (B1B466) and perform the electrical connections as described in the following procedure:
  - 2.30.1 Cut wires of adequate length and lay them down between indicated connectors following the existing routes as shown.
  - 2.30.2 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D, crimp on wires indicated electrical contacts by means of proper crimping tool.
  - 2.30.3 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D, mark wires as indicated by means of marker sleeves P/N A578A02-9.
  - 2.30.4 Perform the electrical connections of previously assembled cable assy.
- 2.31 With reference to Figures 15 thru 19, Figures 22 and 23 wiring diagrams, Table 4 on Figure 27 and Table 6 on Figure 29 assemble the NVG light variant C/A P/N 3G9C01B26402 (C1B264) and perform the electrical connections as described in the following procedure:
  - 2.31.1 Cut wires of adequate length and lay them down between indicated connectors following the existing routes as shown.
  - 2.31.2 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D, crimp on wires indicated electrical contacts by means of proper crimping tool.
  - 2.31.3 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D, mark wires as indicated by means of marker sleeves P/N A578A02-9.
  - 2.31.4 Perform the electrical connections of previously assembled cable assy.

### NOTE

If needed, it is possible to slightly relocate splice SP406 in order to improve accessibility. Be sure to maintain a sufficient fixing of the cables to the structure.

- 2.32 With reference to Figures 18 and 19, Figure 23 wiring diagram, Table 5 on Figure 28 and Table 6 on Figures 29 assemble the NVG light variant C/A P/N 3G9D01B21302 (D1B213) and perform the electrical connections as described in the following procedure:
- 2.32.1 Cut wires of adequate length and lay them down between indicated connectors following the existing routes as shown.
- 2.32.2 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D, crimp on wires indicated electrical contacts by means of proper crimping tool.
- 2.32.3 In accordance with CSPP CSPP-A-20-10-01-00A-691A-D, mark wires as indicated by means of marker sleeves P/N A578A02-9.
- 2.32.4 Perform the electrical connections of previously assembled cable assy.
- 2.33 With reference to Figures 7 thru 17, lay down the following cable assemblies following the existing route unless otherwise indicated in the figures:
- NVG Light Variant C/A (B1A488) P/N 3G9B01A48802;
  - NVG Light Variant C/A (B1B589) P/N 3G9B01B58902;
  - NVG Light Variant C/A (C1A279) P/N 3G9C01A27902;
  - NVG Light Variant C/A (C1B323) P/N 3G9C01B32302;
  - NVG Light Variant C/A (C1B348) P/N 3G9C01B34802;
  - NVG Light Variant C/A (F1B223) P/N 3G9F01B22302.
- 2.34 With reference to Figure 21 wiring diagram, perform the electrical connection of C/A B1A488 between sectioning connector J249 and terminal board TB2175.
- 2.35 With reference to Figure 20 wiring diagram, perform the electrical connection of C/A B1B589 between sectioning connector J114 and sectioning connector J212.
- 2.36 With reference to Figure 22 wiring diagram, perform the electrical connection of C/A C1A279 between sectioning connector J301 and terminal board TB3037.

### NOTE

If required, use a new protection boot P/N A574A01-02.

- 2.37 With reference to Figure 24 wiring diagram, perform the electrical connection of C/A C1B323 between sectioning connector P212, sectioning connector P300 and connector DS116P1, and between connector DS116P1 and sectioning connector P210.
- 2.38 With reference to Figure 24 wiring diagram, perform the electrical connection of

- C/A C1B348 between connector DS116J1 and anticollision light DS116 connector DS116P1EXT.
- 2.39 With reference to Figure 22 wiring diagram, perform the electrical connection of C/A F1B223 between sectioning connector P3024 and terminal board TB600.
  - 2.40 With reference to Figure 17, install the nutplate P/N M85049/95-10A-A on the structure by means of n°4 screws P/N MS24693-4B.
  - 2.41 With reference to Figure 17, connect the sectioning connector P3024 to sectioning connector J3024.
  - 2.42 Perform a pin-to-pin continuity check of all the electrical connection made.
  - 2.43 With reference to Figure 18, remove existing support and install the support P/N 3G5316A78751 on the structure by means of existing hardware.
  - 2.44 With reference to Figure 18 and Figure 19 View G-G, install flange P/N M85049/95-16A and connect the sectioning connector P400 to sectioning connector J400.
  - 2.45 With reference to Figure 6, remove plate P/N 999-0500-85-207 from the interseat console.
  - 2.46 With reference to Figure 7 Detail B, install stowage panel assy P/N 3G3360A00932 on the interseat console.
  - 2.47 In accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300PL58 in an area adjacent to previously installed panel assy.
  - 2.48 With reference to Figure 7 Detail B, connect the connectors PL58P1 and PL58P2 to the previously installed stowage panel assy.
3. In accordance with weight and balance changes, update the Chart A (see Rotorcraft Flight Manual, Part II, section 6).
  4. Return the helicopter to flight configuration and record for compliance with this Service Bulletin on the helicopter logbook.
  5. Gain access to My Communications section on Leonardo WebPortal and compile the "Service Bulletin Application Communication".

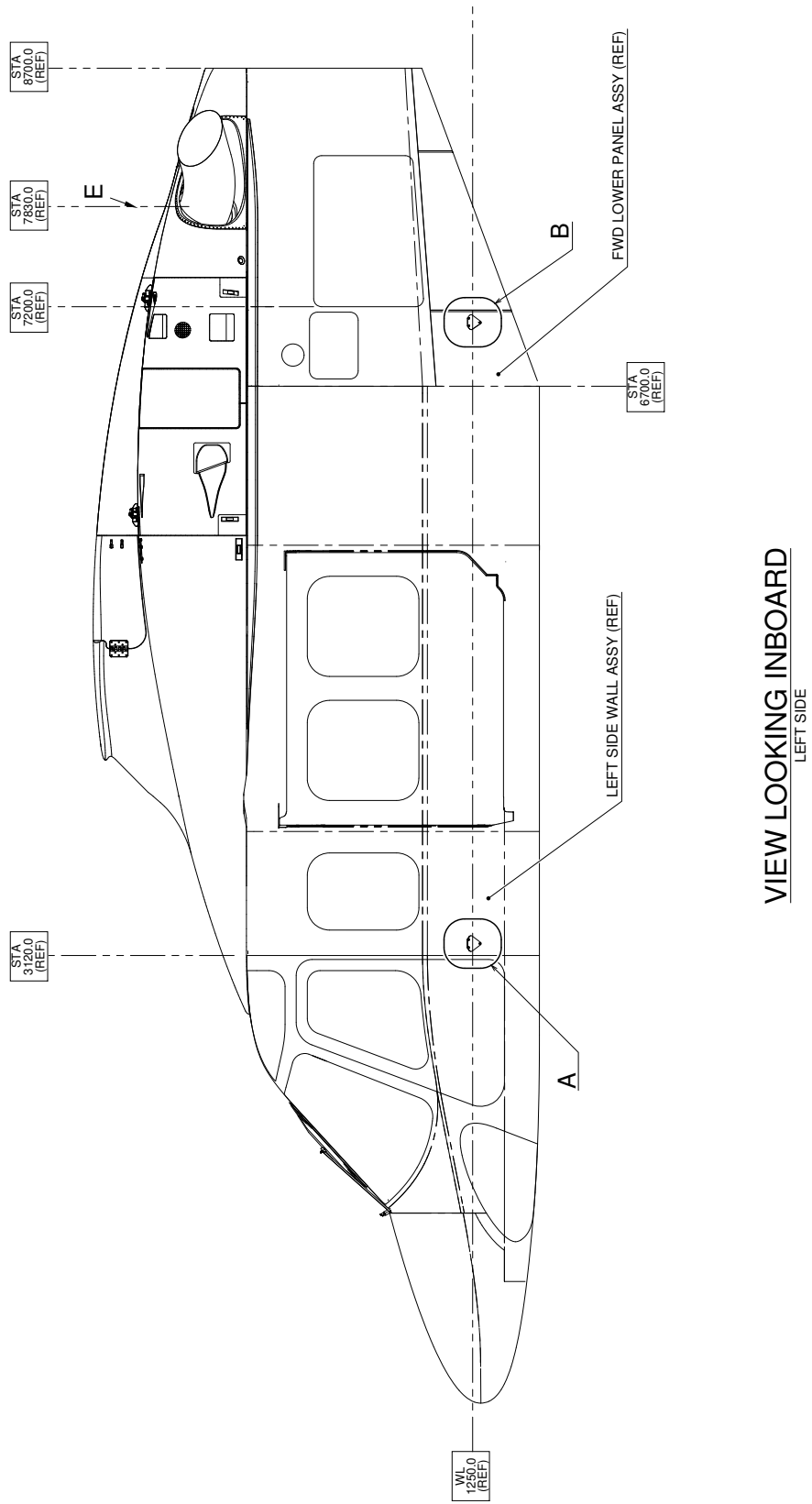
As an alternative, send the attached compliance form to the following mail box:

[engineering.support.lhd@leonardo.com](mailto:engineering.support.lhd@leonardo.com)

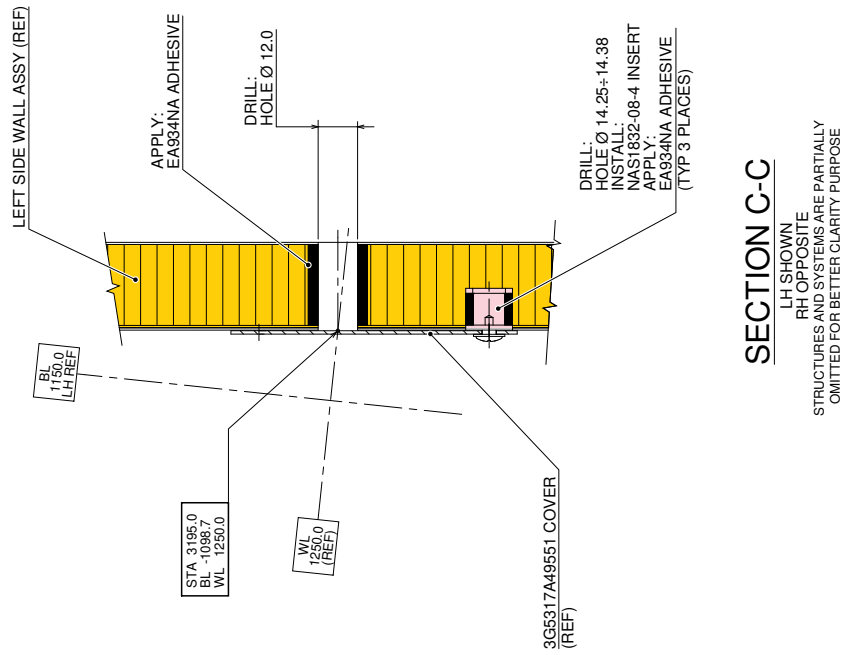
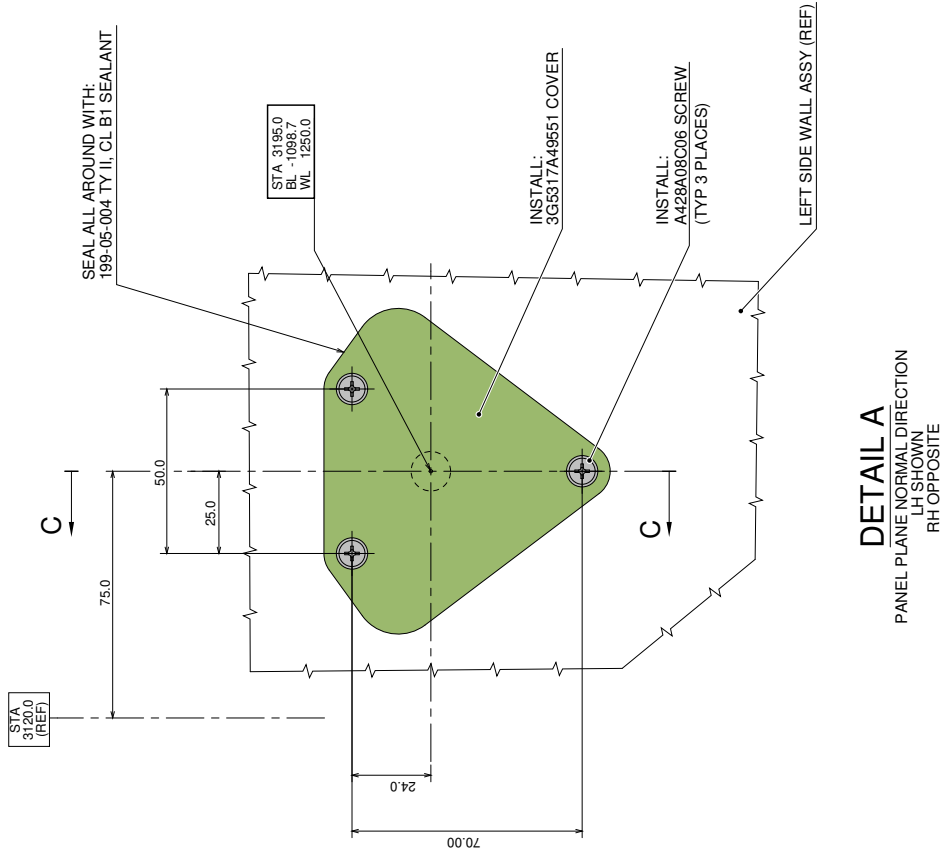
and (for North, Central and South America) also to:

[AWPC.Engineering.Support@leonardocompany.us](mailto:AWPC.Engineering.Support@leonardocompany.us)

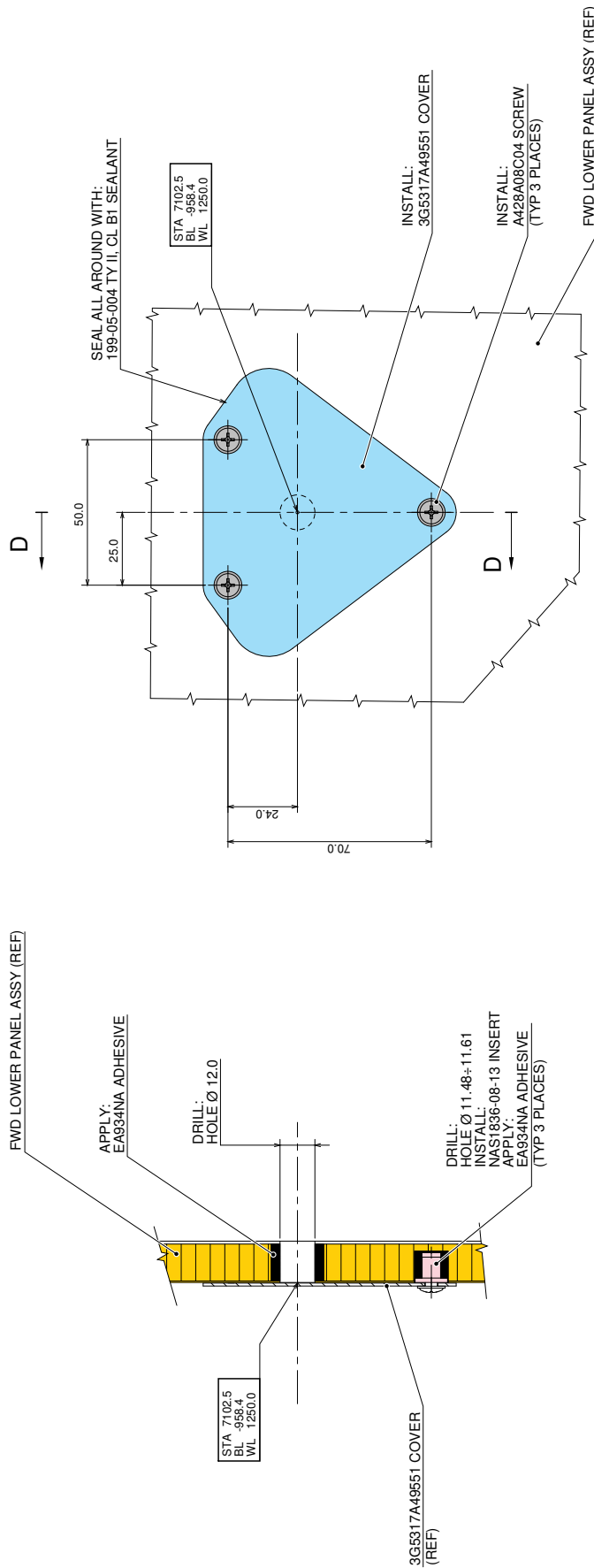
**3G5310P12611**  
**NVG LIGHT**  
**STRUCTURAL PROVISION**



**Figure 1**



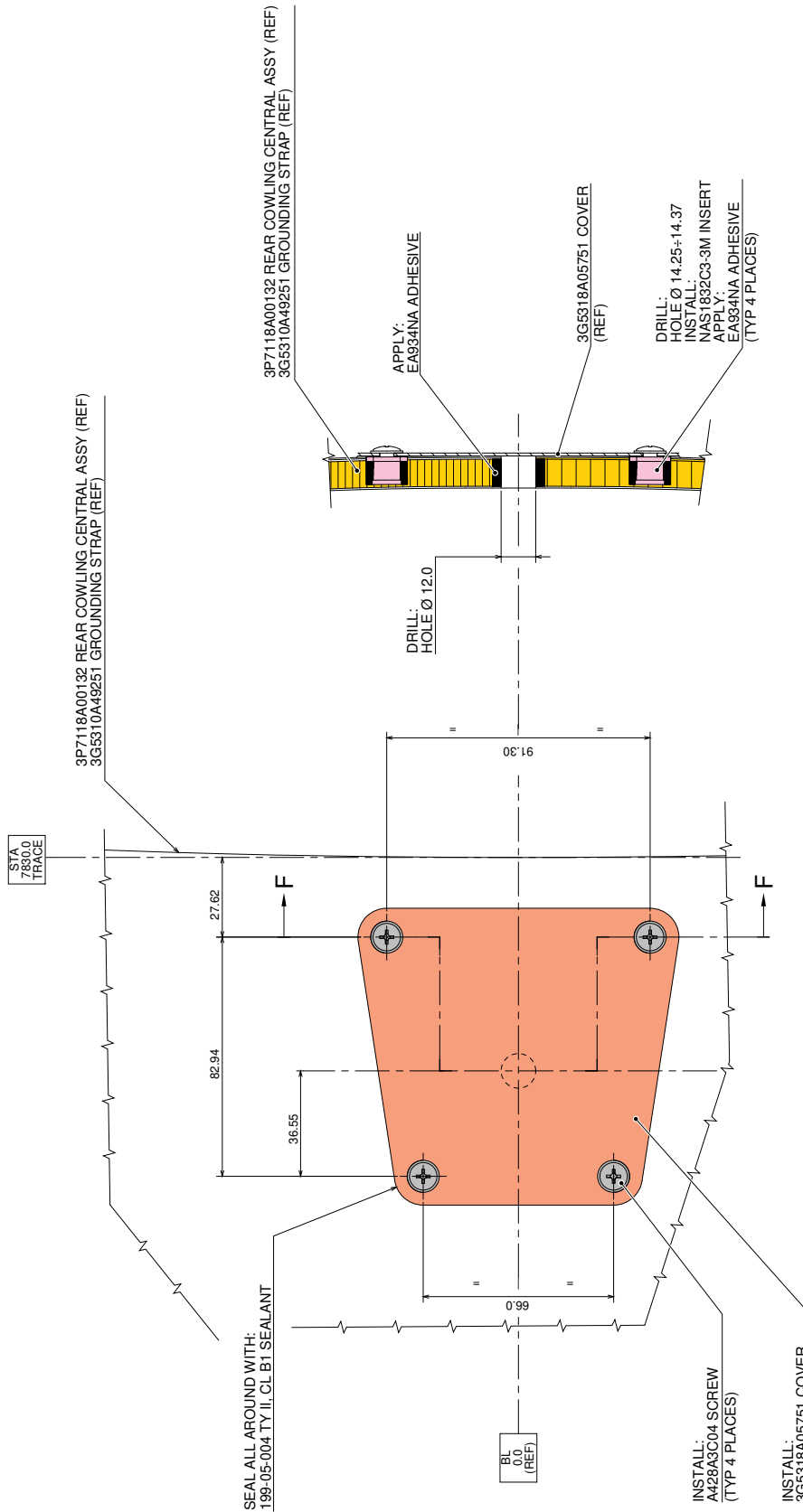
**Figure 2**



**DETAIL B**  
PANEL PLANE NORMAL DIRECTION  
LH SHOWN  
RH OPPOSITE

**SECTION D-D**  
LH SHOWN  
RH OPPOSITE  
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OMITTED FOR BETTER CLARITY PURPOSE

**Figure 3**



**SECTION F-F**

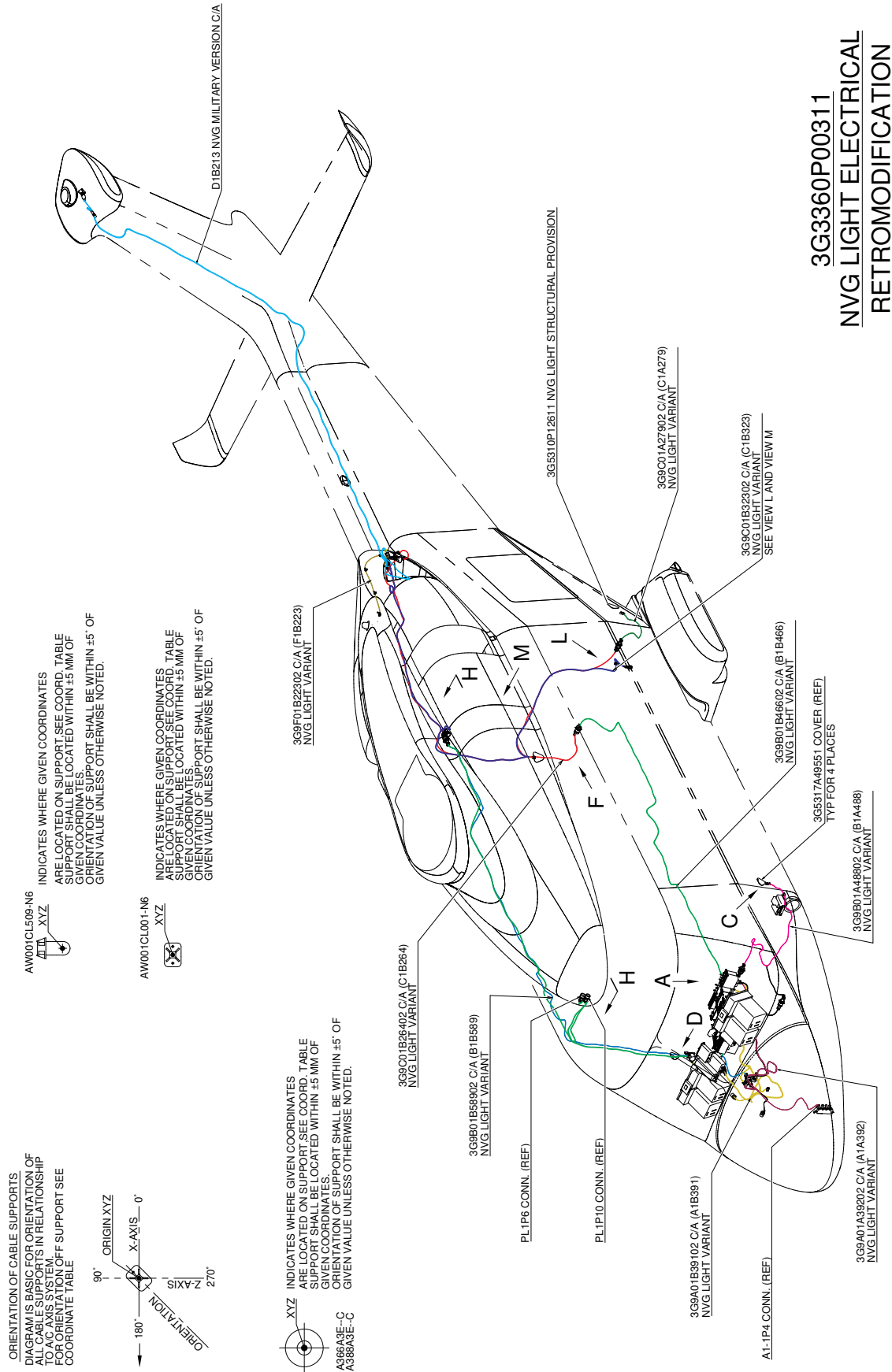
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

**VIEW E**

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

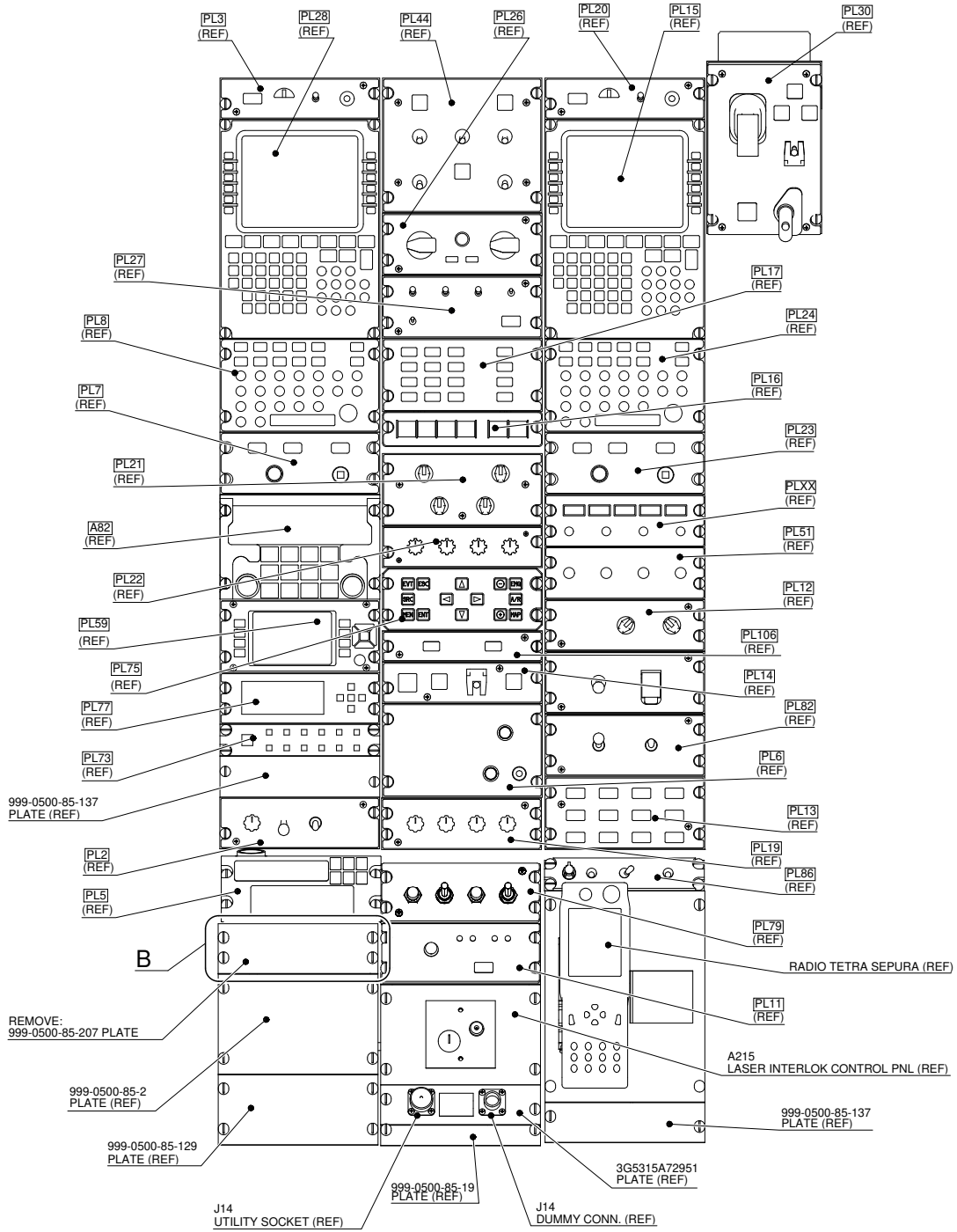
**Figure 4**





**3G3360P00311**  
**NVG LIGHT ELECTRICAL**  
**RETROMODIFICATION**

**Figure 5**

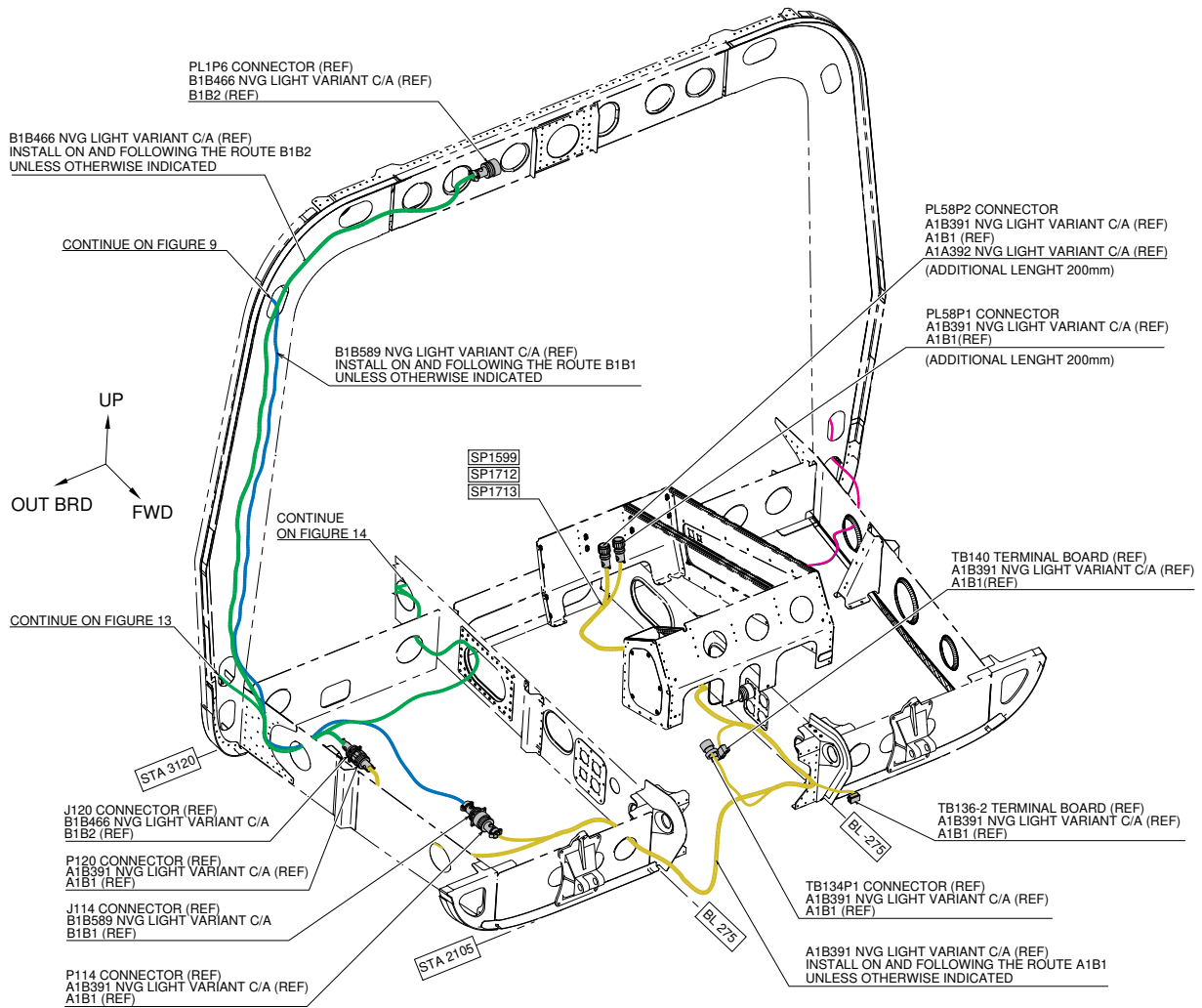


**VIEW A**

STRUCTURES AND SYSTEMS ARE PARTIALLY  
OMITTED FOR BETTER CLARITY PURPOSE

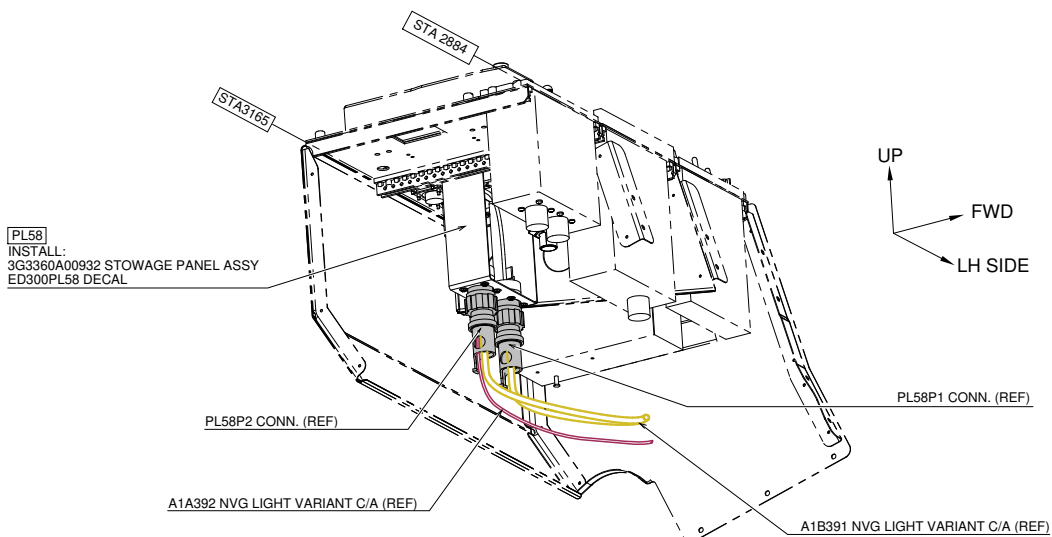
**Figure 6**

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**VIEW LOOKING FROM STA 2105 TO STA 3120 A.D.O.F.**

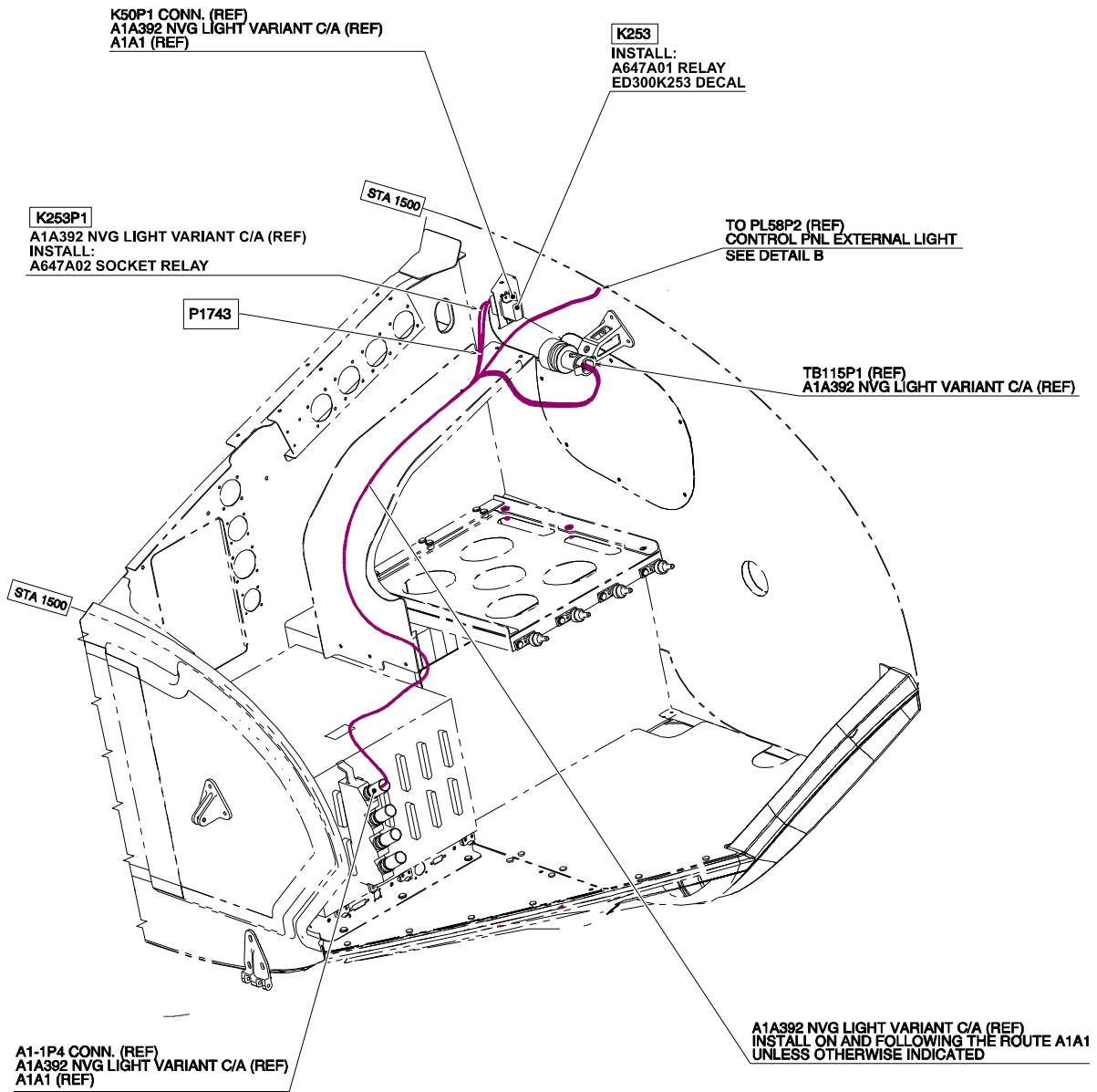
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE



**DETAIL B**

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

**Figure 7**

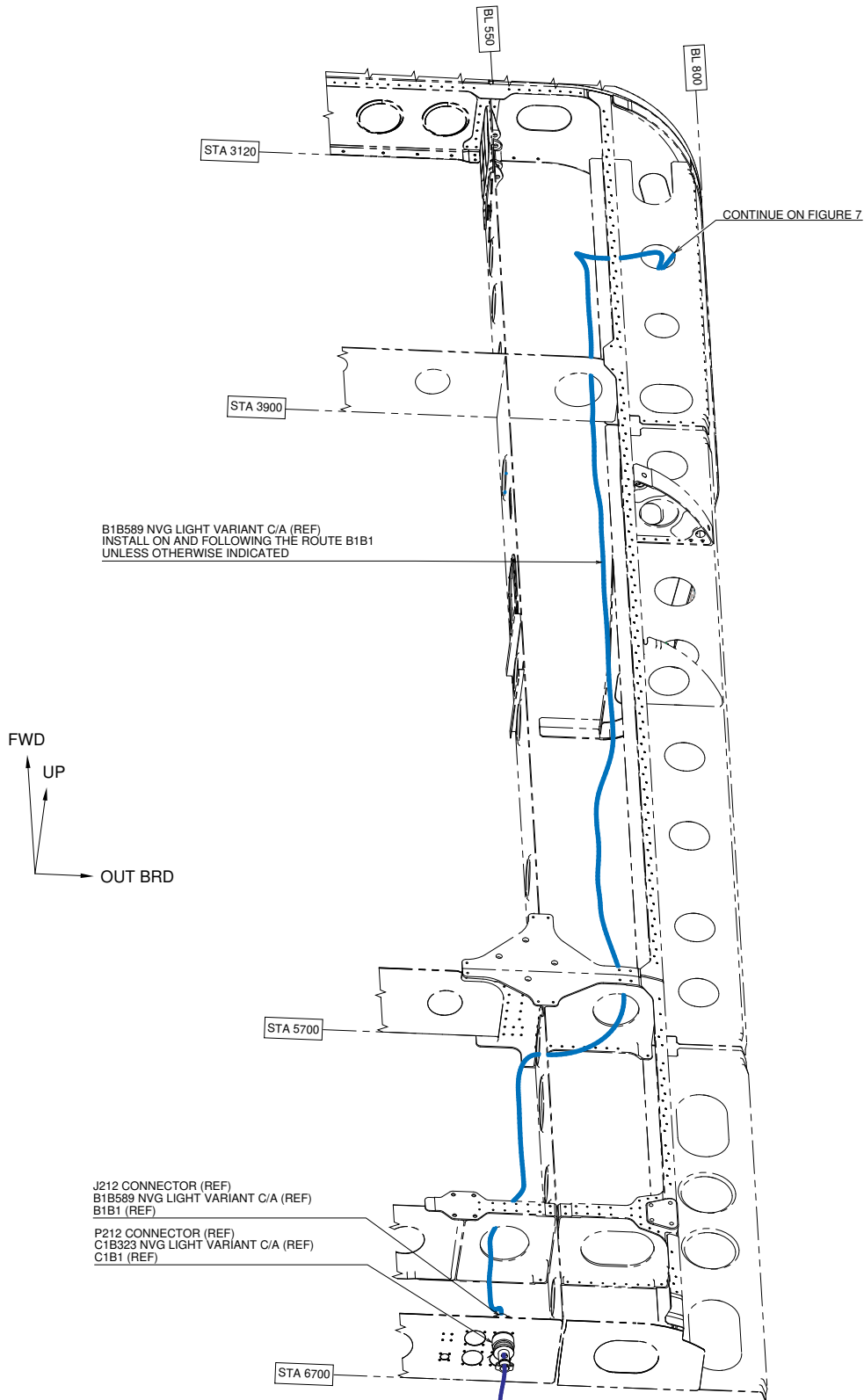


**VIEW LOOKING NOSE LH SIDE**

STRUCTURES AND SYSTEMS ARE PARTIALLY  
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**Figure 8**

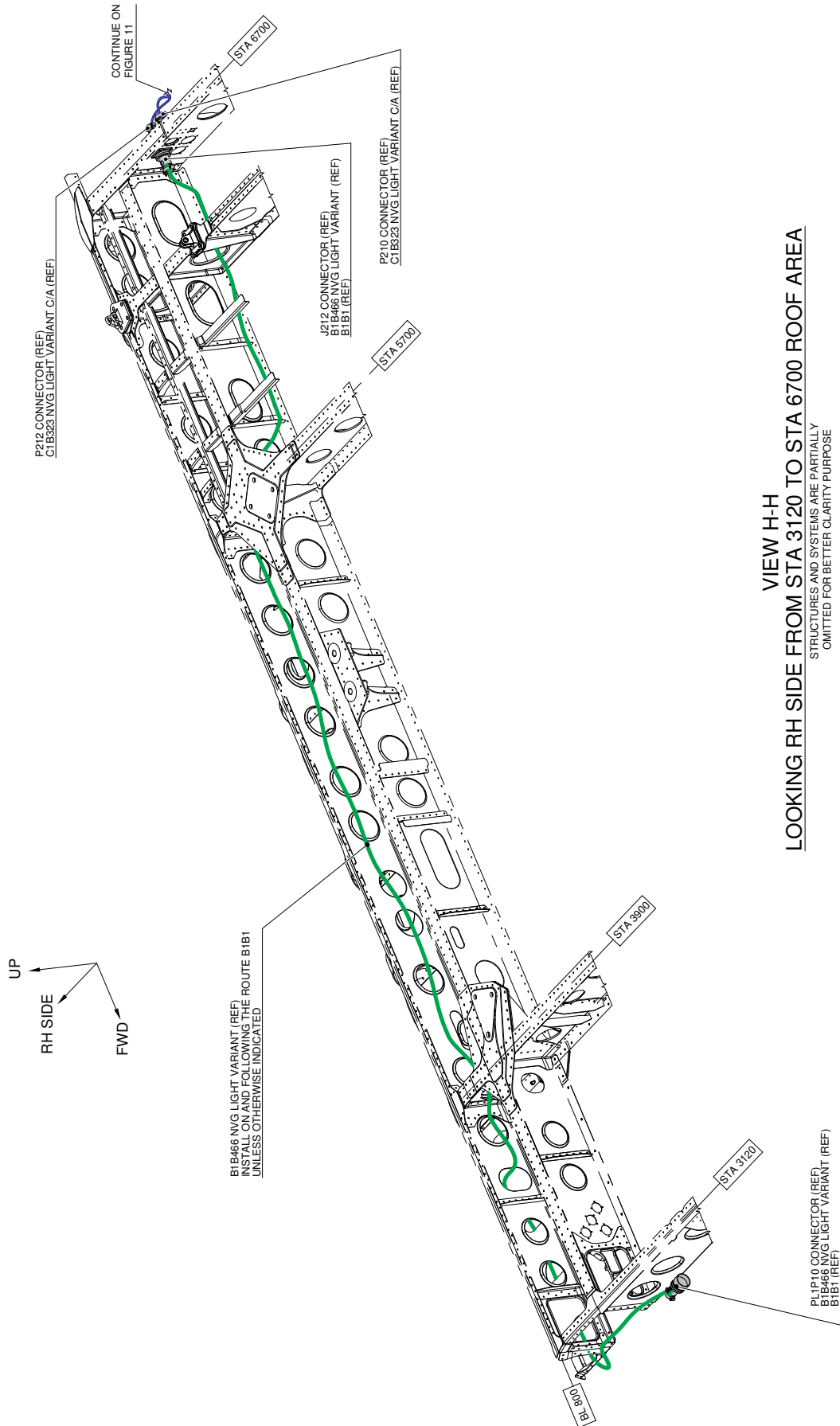
S.B. N°139-582 OPTIONAL  
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**VIEW LOOKING DOWN ROOF RH SIDE**

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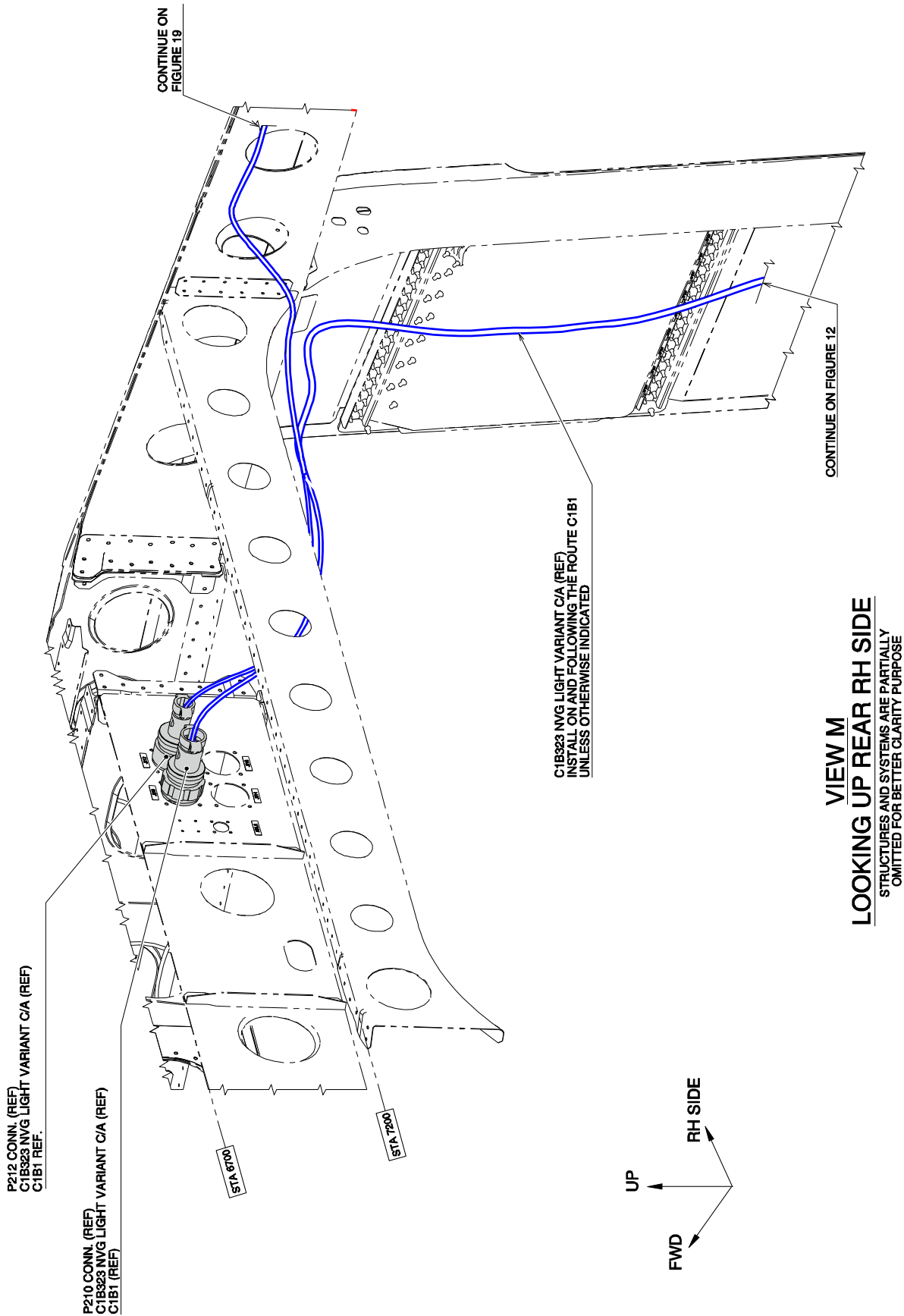
**Figure 9**



**VIEW H-H**  
**LOOKING RH SIDE FROM STA 3120 TO STA 6700 ROOF AREA**  
STRUCTURES AND SYSTEMS ARE PARTIALLY  
OMITTED FOR BETTER CLARITY PURPOSE

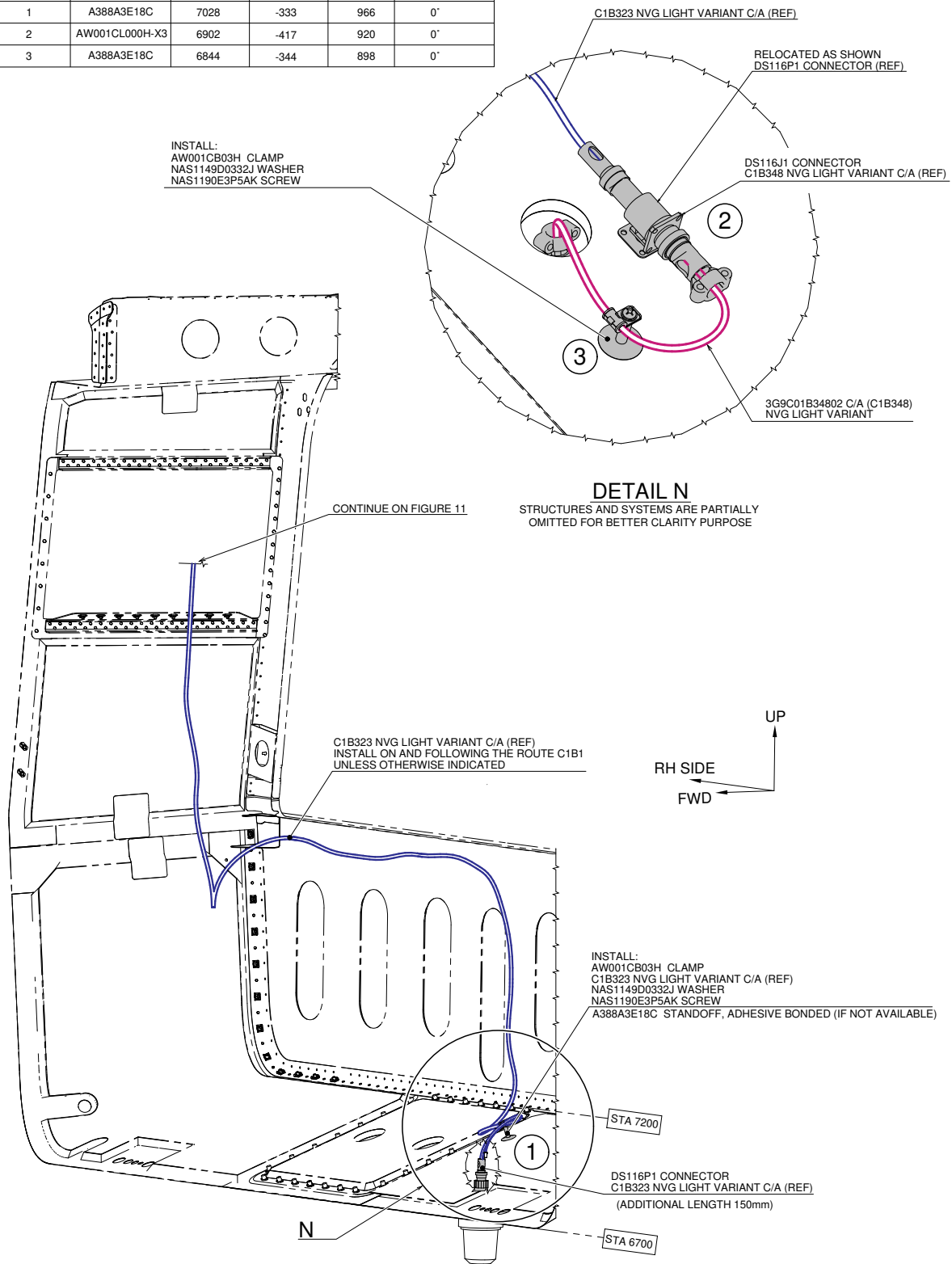
**Figure 10**

S.B. N°139-582 OPTIONAL  
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**Figure 11**

LOCATION NUMBER	PART. NUMBER	STA	BL	WL	ORIENTATION
1	A388A3E18C	7028	-333	966	0°
2	AW001CL000H-X3	6902	-417	920	0°
3	A388A3E18C	6844	-344	898	0°



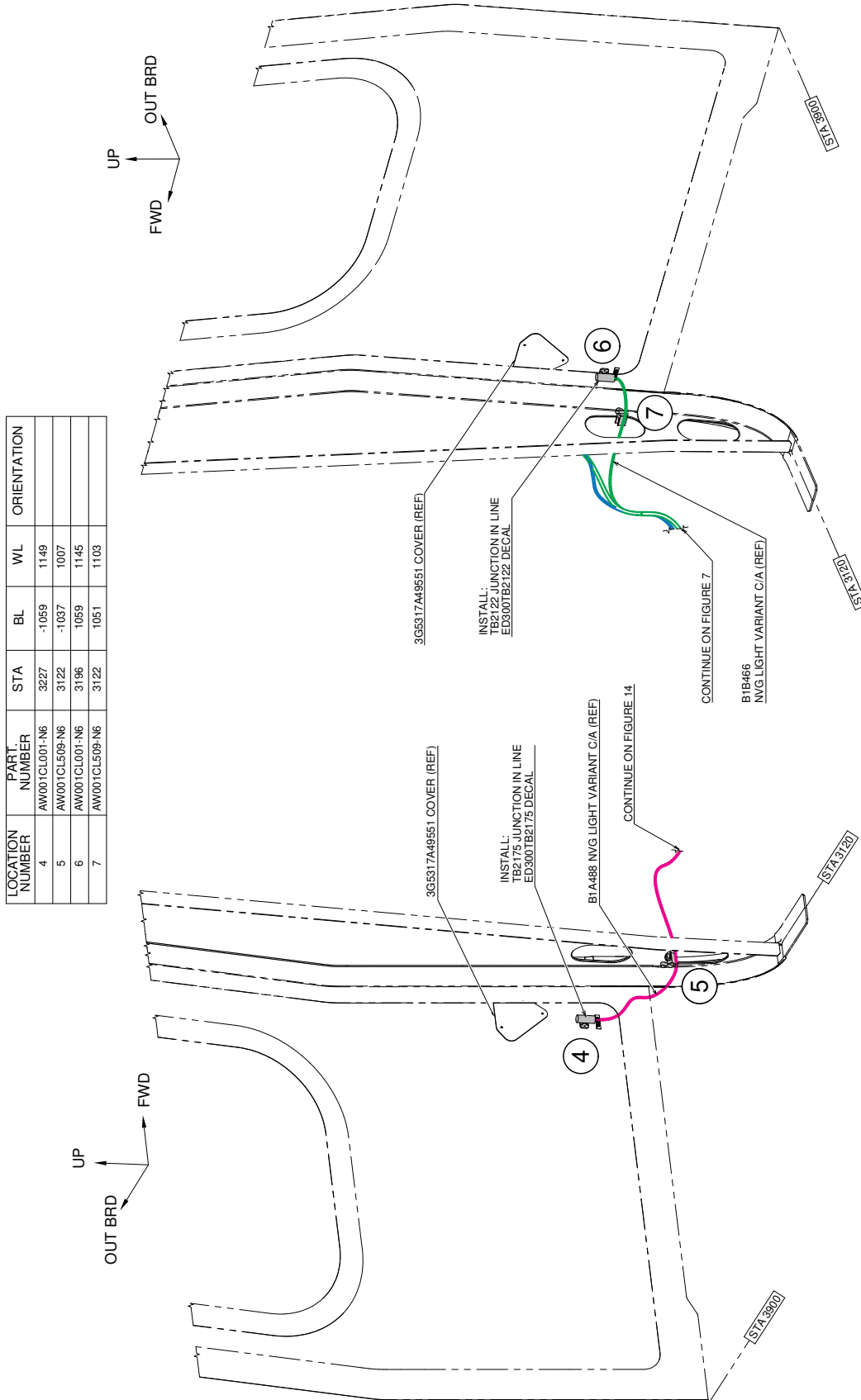
**VIEW L**  
**LOOKING A.D.O.F. RH SIDE REAR AREA**

STRUCTURES AND SYSTEMS ARE PARTIALLY  
OMITTED FOR BETTER CLARITY PURPOSE

**Figure 12**

S.B. N°139-582 OPTIONAL  
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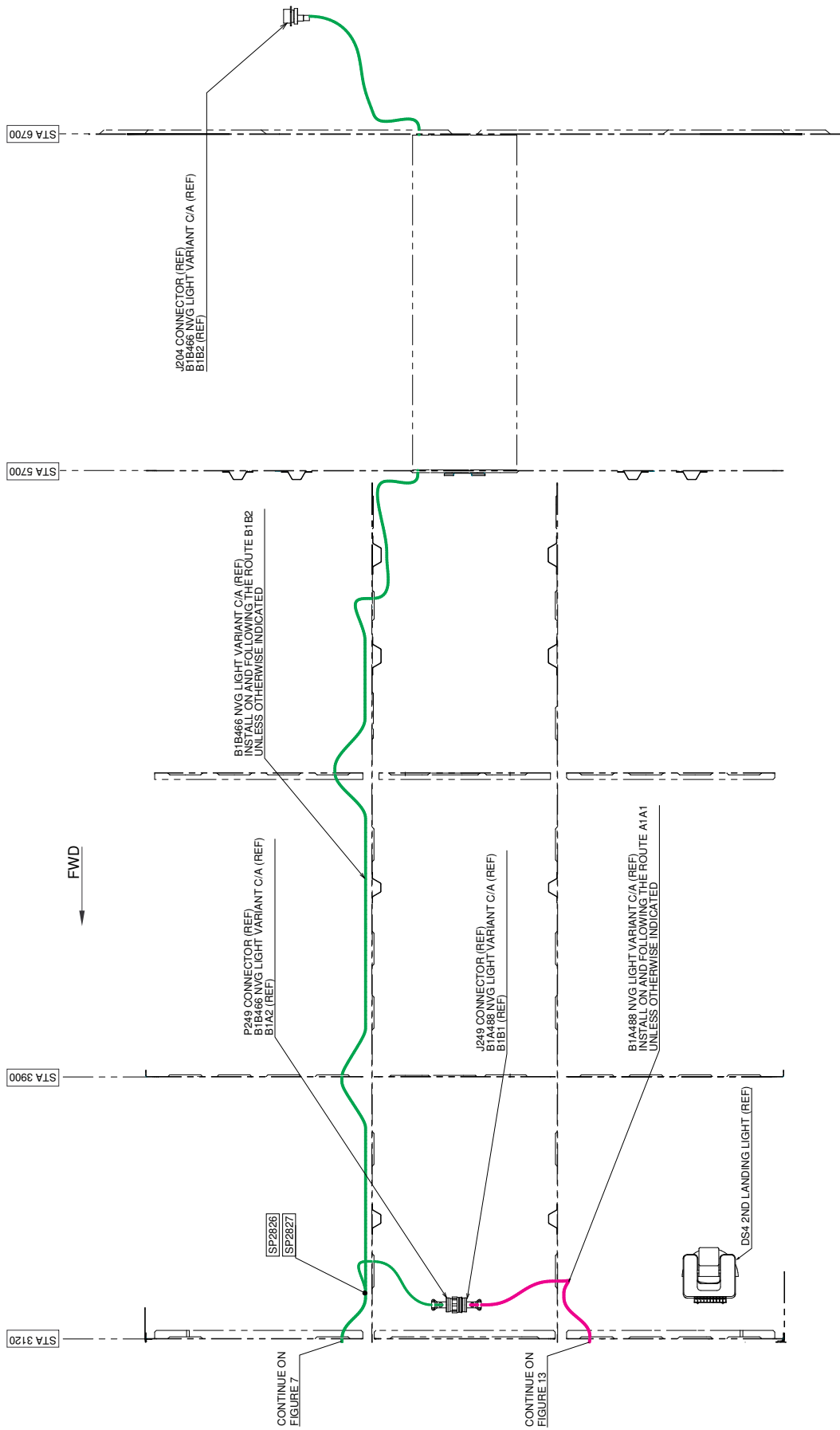




**VIEW C**  
LOOKING FROM STA 3120 TO STA 3900 LH SIDE  
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

**VIEW D**  
LOOKING FROM STA 3120 TO STA 3900 RH SIDE  
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

**Figure 13**

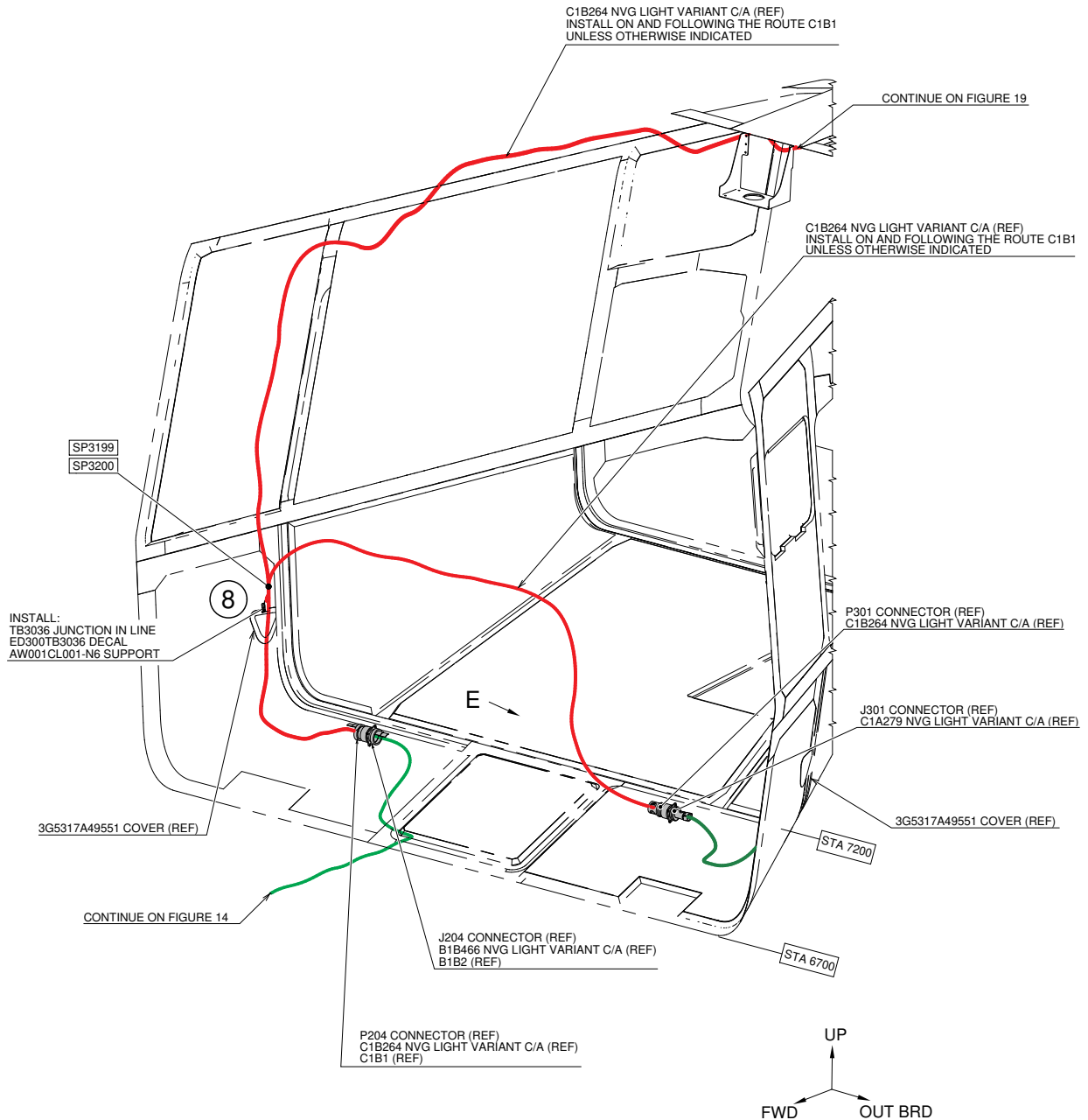


**VIEW LOOKING DOWN FLOOR**  
STRUCTURES AND SYSTEMS ARE PARTIALLY  
OMITTED FOR BETTER CLARITY PURPOSE

**Figure 14**

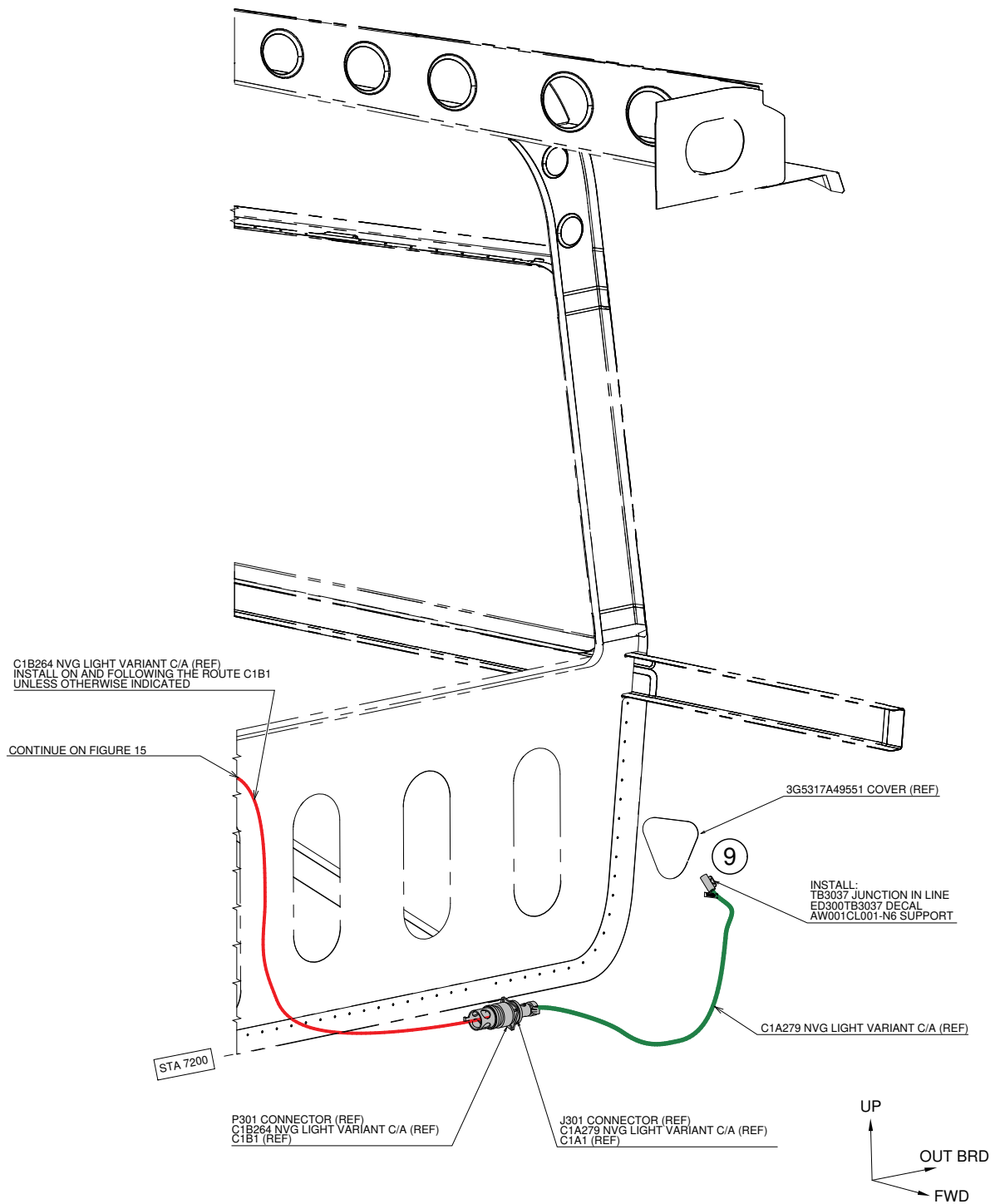
S.B. N°139-582 OPTIONAL  
DATE: November 9, 2023  
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LOCATION NUMBER	PART. NUMBER	STA	BL	WL	ORIENTATION
8	AW001CL001-N6	7102	948	1295	
9	AW001CL001-N6	7025	-964	1183	



**VIEW F**  
**FLOCKING REAR ZONE RH SIDE**  
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OMITTED FOR BETTER CLARITY PURPOSE

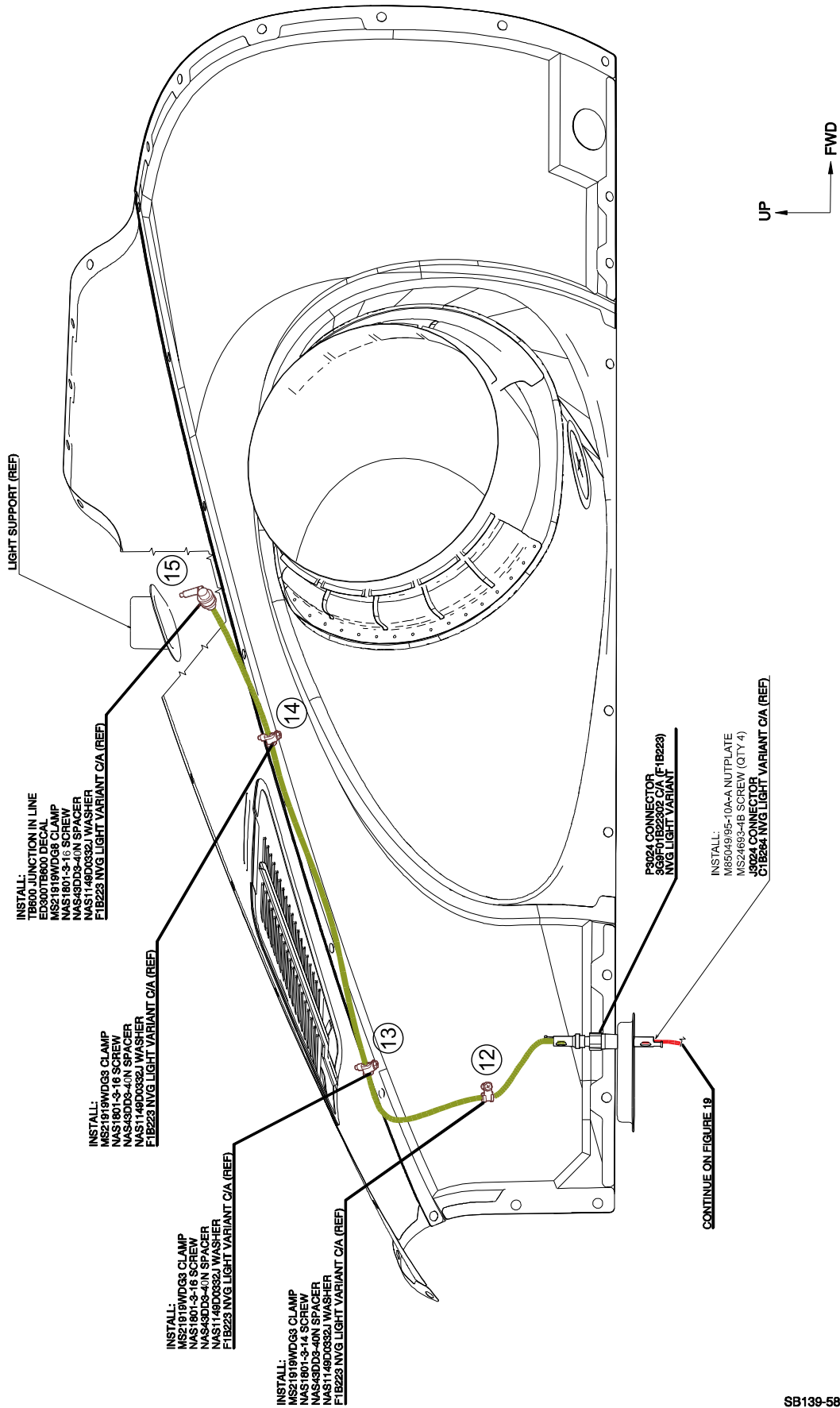
**Figure 15**



**VIEW E**  
**LOOKING REAR ZONE LH SIDE**  
STRUCTURES AND SYSTEMS ARE PARTIALLY  
OMITTED FOR BETTER CLARITY PURPOSE

**Figure 16**

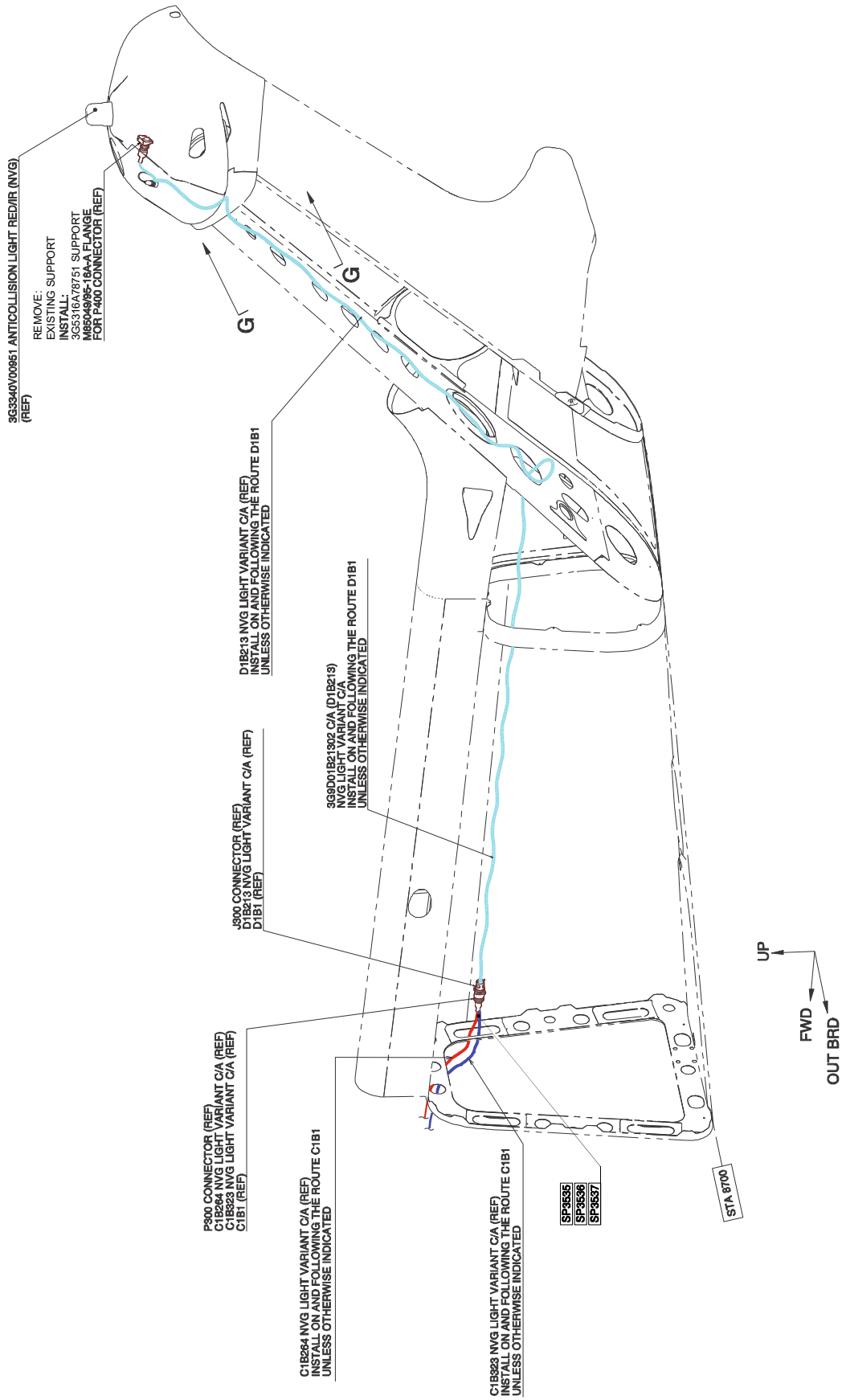
S.B. N°139-582 OPTIONAL  
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**VIEW LOOKING UP UPPER DECK ZONE LH SIDE**  
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OMITTED FOR BETTER CLARITY PURPOSE

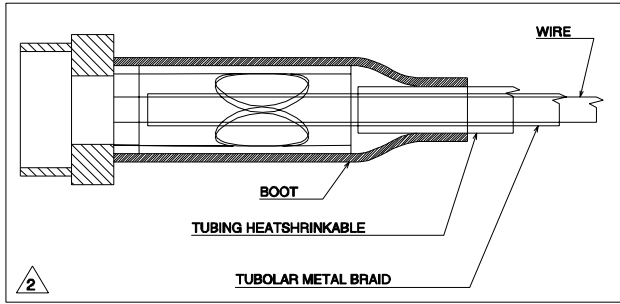
SB139-582-021-02

**Figure 17**

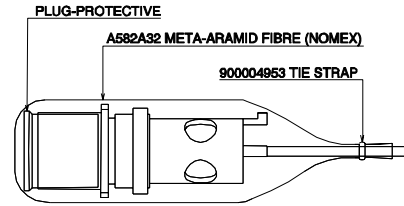


**VIEW LOOKING TAIL ZONE**  
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**Figure 18**

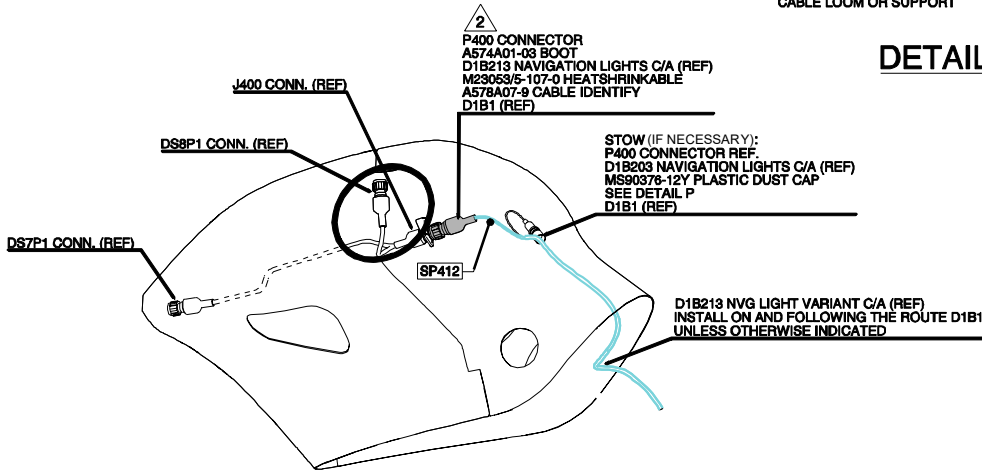


LOCATION NUMBER	PART. NUMBER	STA	BL	WL	ORIENTATION
10	A388A3E06C	7102	948	1295	
11	A388A3E06C	7025	-964	1183	



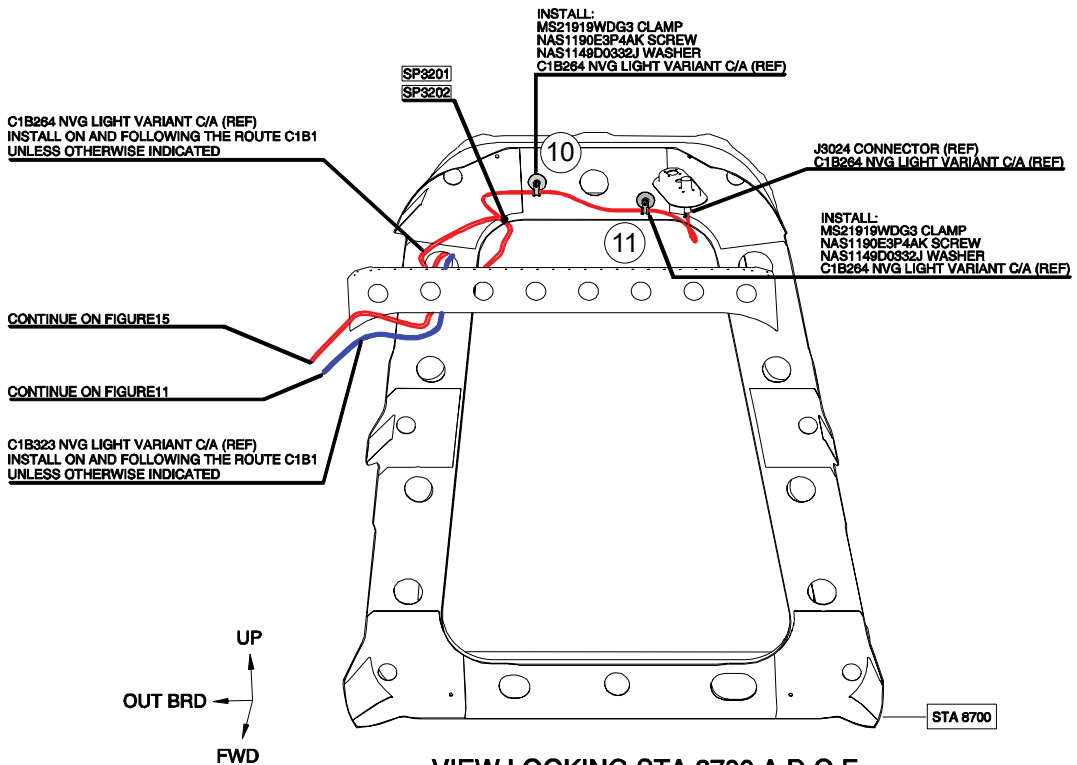
INSERT THE CONNECTOR ASSEMBLY INTO THE PROTECTIVE PLUG. COVER WITH THE NOMEX FIBRE SLEEVE AND USE THE CABLE STRAPS TO TIE UP SLEEVE FIRMLY TO THE CONNECTOR CABLING. USE CABLE STRAPS TO FIX THE CONNECTOR ASSY TO THE CABLE LOOM OR SUPPORT

### DETAIL P



### VIEW G-G

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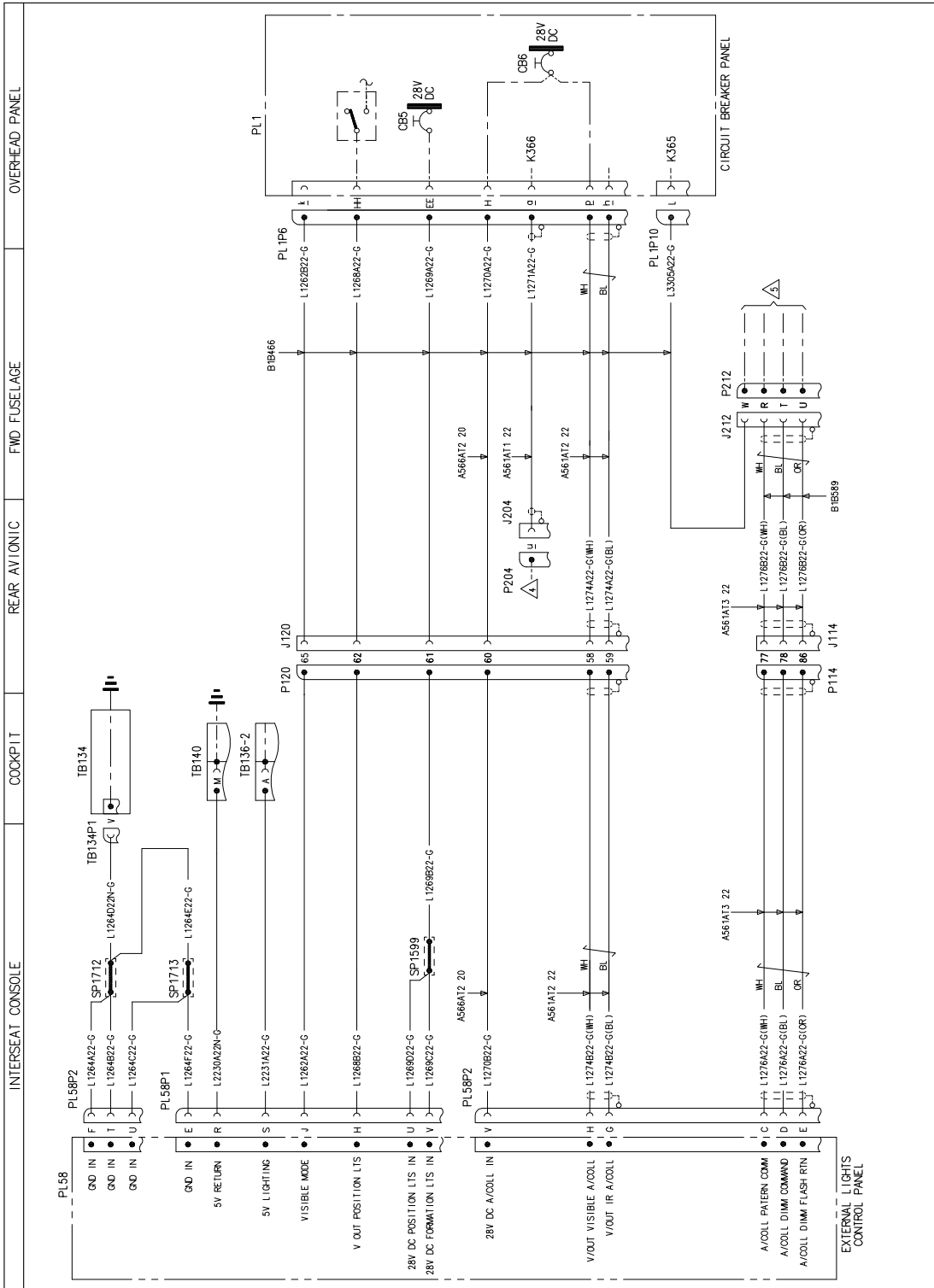


### VIEW LOOKING STA 8700 A.D.O.F.

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Figure 19

DRAWING REF. KEY  
 ▲ SEE SHT N.4  
 △ SEE SHT N.5



FUNCTIONAL NOTES  
 ALL CABLES ARE IN LOW A561A UNLESS SPECIFIED  
 ALL CABLES ARE OF TYPE A561A 22 UNLESS SPECIFIED

Figure 20

S.B. N°139-582 OPTIONAL  
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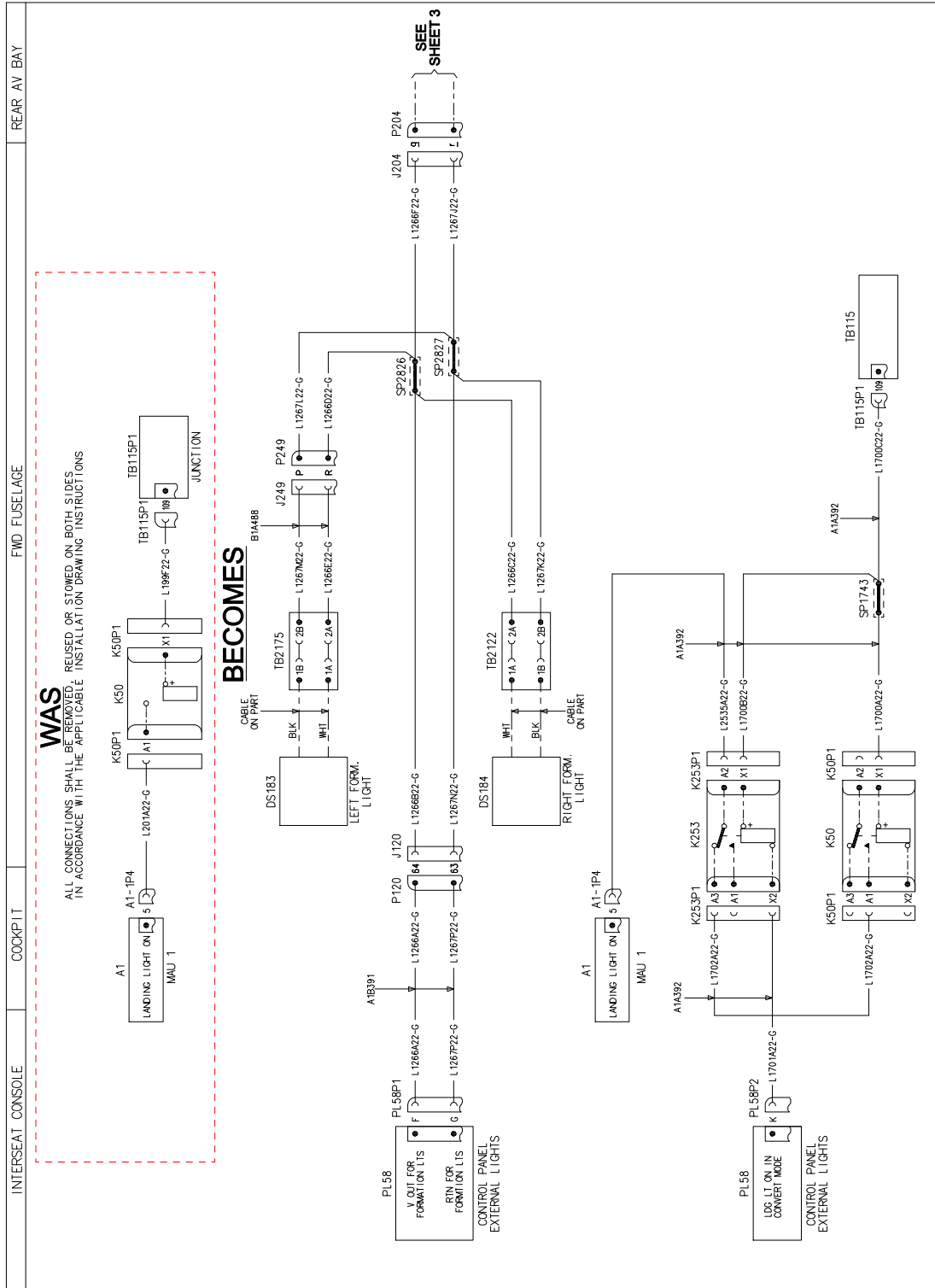


Figure 21

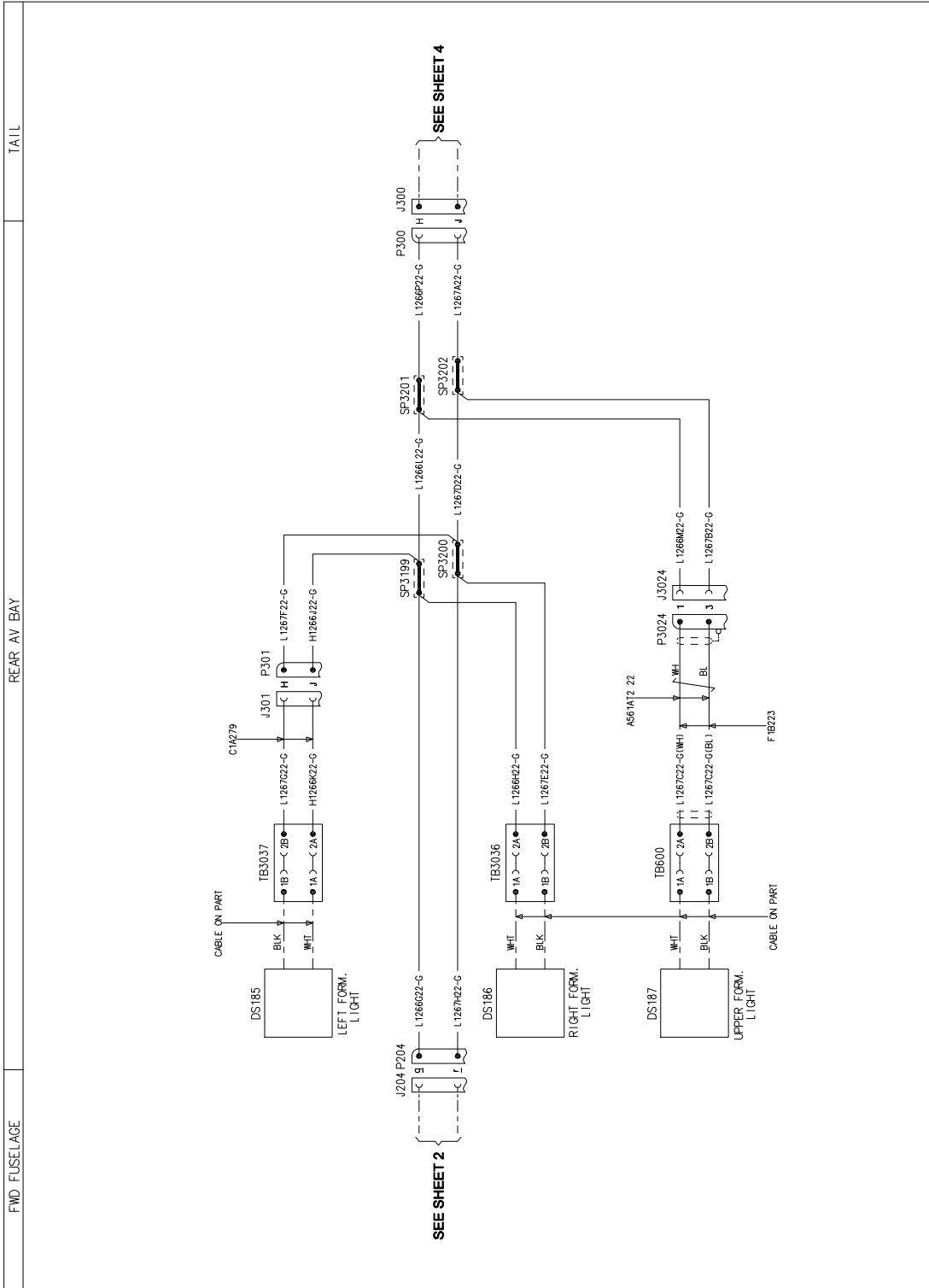
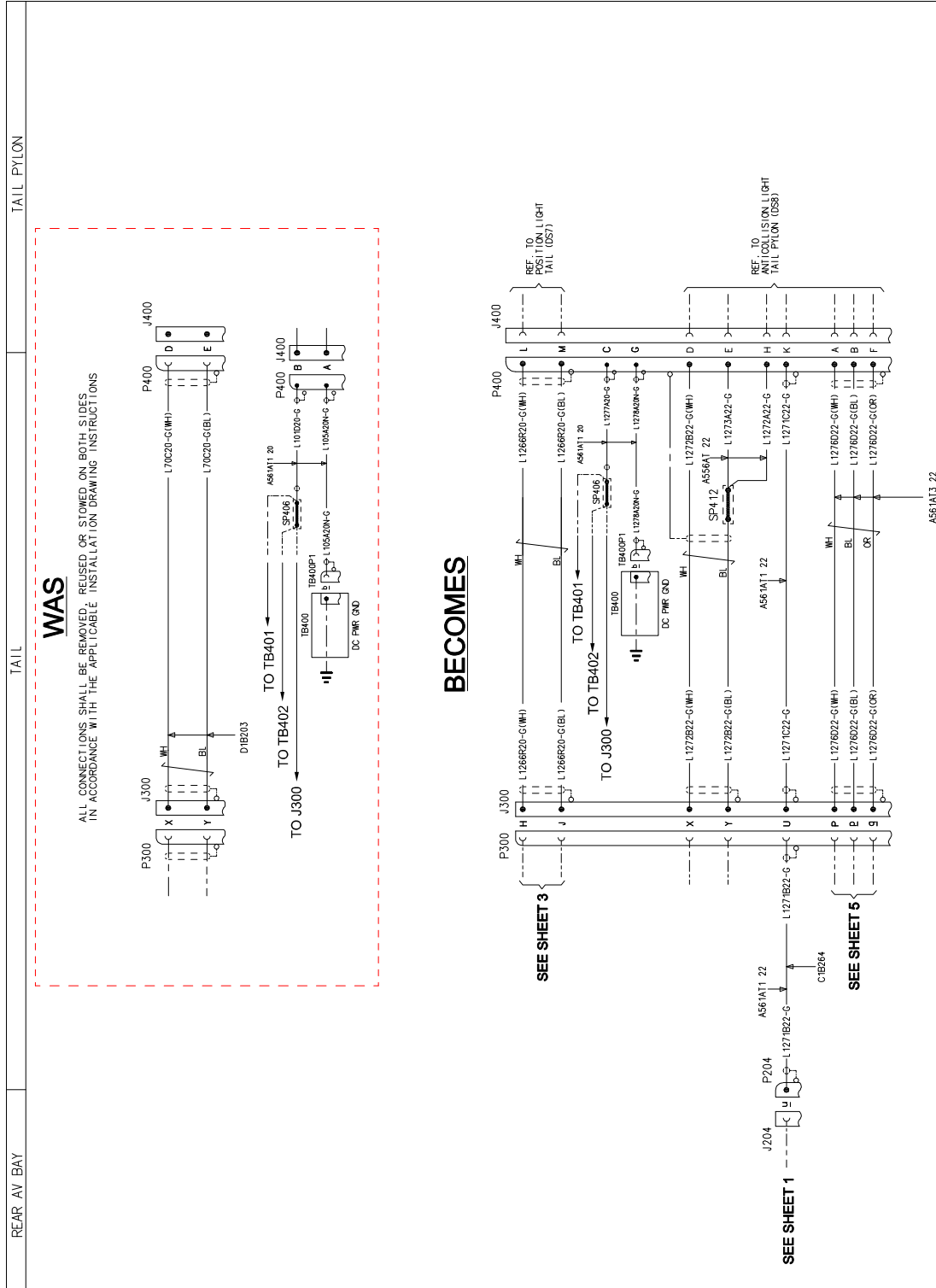


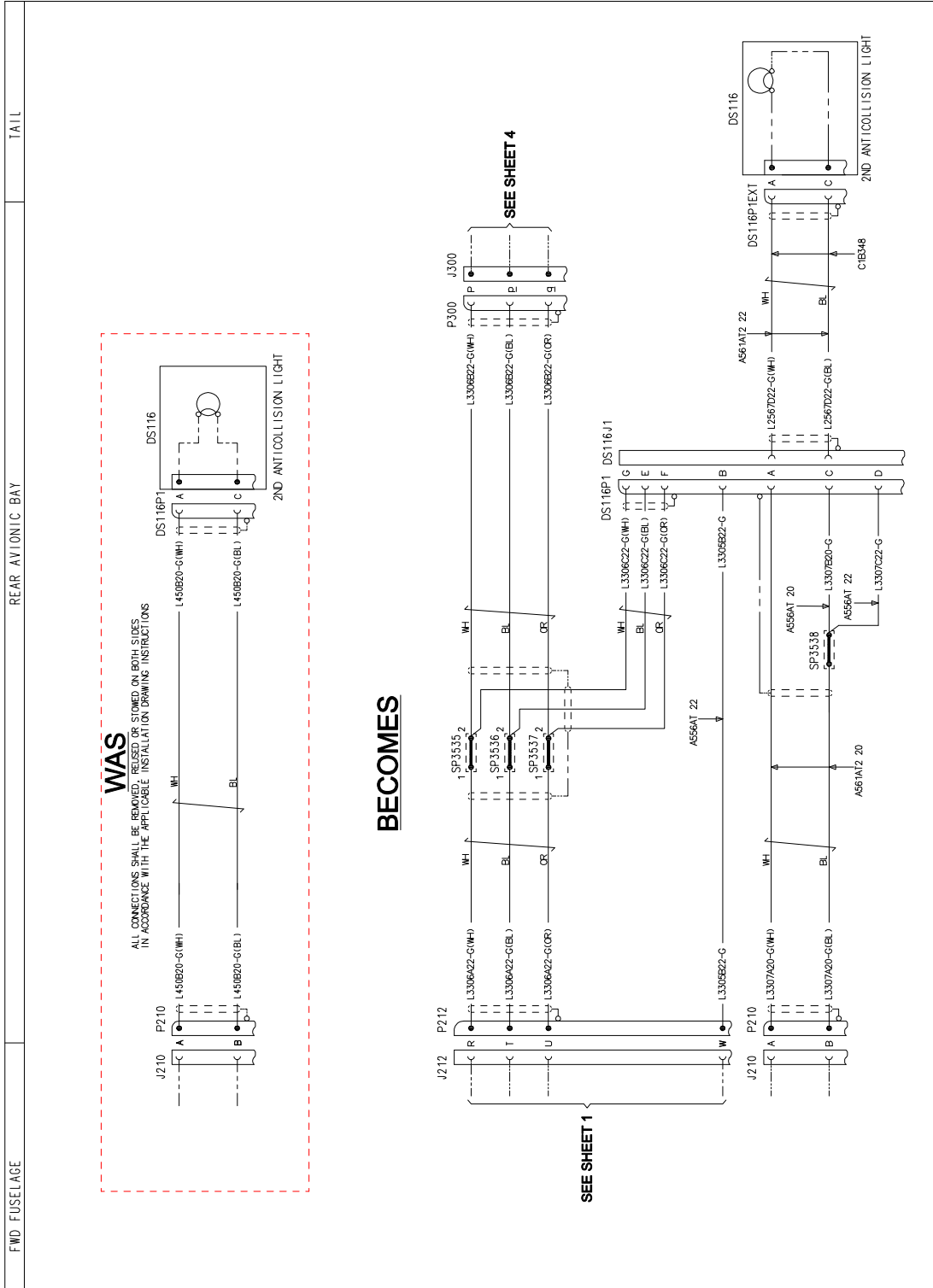
Figure 22

S.B. N°139-582 OPTIONAL  
DATE: November 9, 2023  
REVISION: /

FUNCTIONAL NOTES  
ALL CABLES ARE IN LOOM C18264 UNLESS SPECIFIED.  
ALL CABLES ARE OF TYPE A56A1 22 UNLESS SPECIFIED.



**Figure 23**



FUNCTIONAL NOTES

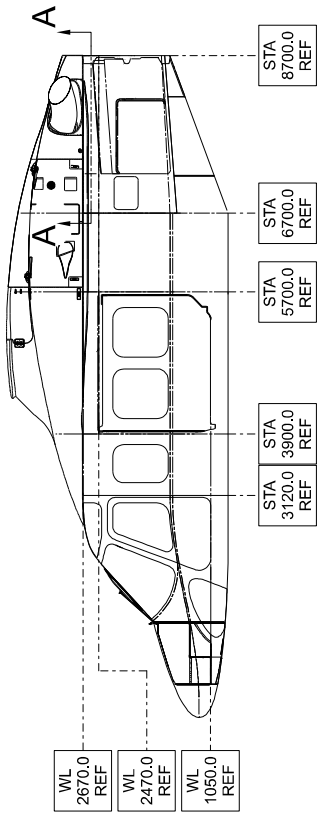
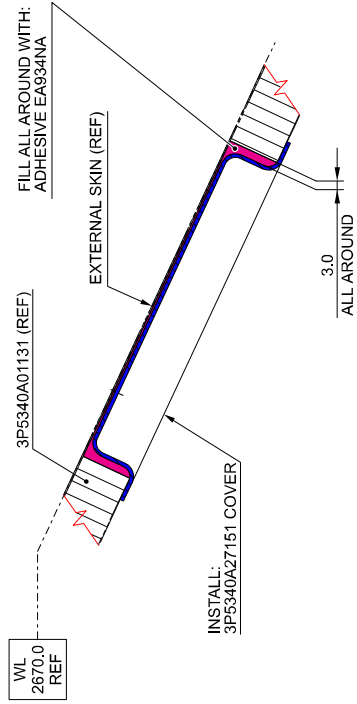
ALL CABLES ARE IN LOW CIBS33 UNLESS SPECIFIED  
ALL CABLES ARE OF TYPE ABB1A17 22 UNLESS SPECIFIED

Figure 24

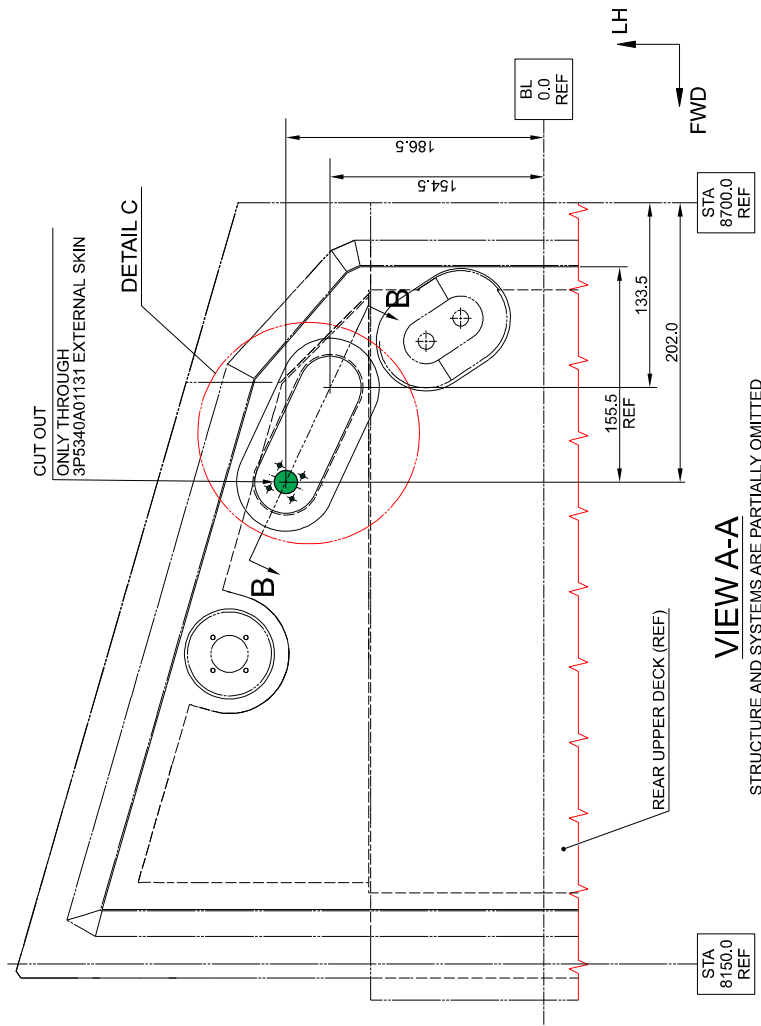
S.B. N°139-582 OPTIONAL  
DATE: November 9, 2023  
REVISION: /

**NVG LIGHTS STRUCTURAL PROVISION**

3G5310A53711



**VIEW LOOKING INBOARD LEFT SIDE**

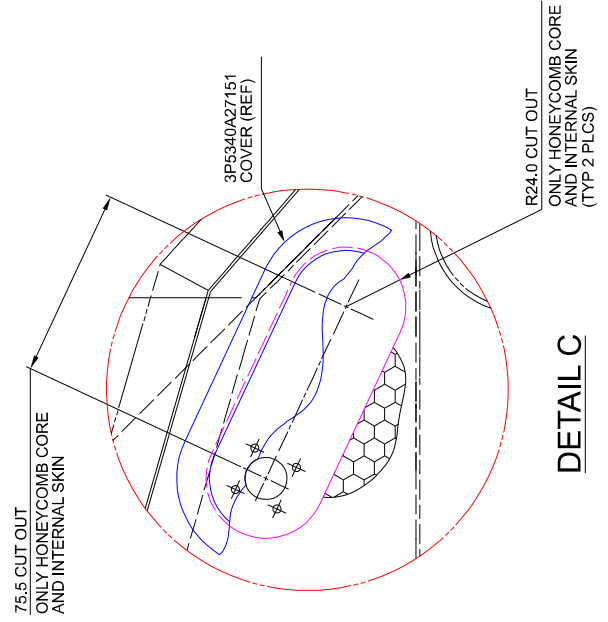


**VIEW A-A**

STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

**SECTION B-B**

STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE



**Figure 25**

TABLE 1 NVG Light Variant C/A A1A392 (P/N 3G9A01A39202)							
WIRE		FROM			TO		
Identification	P/N	Ref Des Connection	Pin	Electrical Contact	Ref Des Connection	Pin	Electrical Contact
L2535A22-G	A556A-T22	A1-1P4	5	M39029/57-354	K253P1	A2	A523A-B02
L1700A22-G	A556A-T22	K50P1	X1	A523A-B02	SP1743	N.A.	N.A.
L1702A22-G	A556A-T22	K50P1	A1	A523A-B02	K253P1	A3	A523A-B02
L1701A22-G	A556A-T22	PL58P2	K	M39029/56-351	K253P1	X2	A523A-B02
L1700B22-G	A556A-T22	SP1743	N.A.	N.A.	K253P1	X1	A523A-B02
L1700C22-G	A556A-T22	SP1743	N.A.	N.A.	TB115P1	109	M39029/56-348

TABLE 2 NVG Light Variant C/A A1B391 (P/N 3G9A01B39102)								
WIRE		FROM			TO			INSULE TUBE P/N
Identification	P/N	Ref Des Connection	Pin	Electrical Contact	Ref Des Connection	Pin	Electrical Contact	
L1266A22-G	A556A-T22	P120	64	M39029/58-360	PL58P1	F	M39029/56-351	N.A.
L1270B22-G	A556A-T22	P120	60	M39029/58-360	PL58P2	V	M39029/56-351	N.A.
L1274B22-G	A561A-T2-22(WH)	P120	58	M39029/58-360	PL58P2	H	M39029/56-351	M23053/8-004-C
	A561A-T2-22(BL)	P120	59	M39029/58-360	PL58P2	G	M39029/56-351	M23053/8-004-C
L1262A22-G	A556A-T22	PL58P1	J	M39029/56-351	P120	65	M39029/58-360	N.A.
L1264F22-G	A556A-T22	PL58P1	E	M39029/56-351	SP1713	N.A.	N.A.	N.A.
L1267P22-G	A556A-T22	PL58P1	G	M39029/56-351	P120	63	M39029/58-360	N.A.
L1268B22-G	A556A-T22	PL58P1	H	M39029/56-351	P120	62	M39029/58-360	N.A.
L1269C22-G	A556A-T22	PL58P1	V	M39029/56-351	SP1599	N.A.	N.A.	N.A.
L2230A22N-G	A556A-T22	PL58P1	R	M39029/56-351	TB140	N	001104-202-02	N.A.
L2231A22-G	A556A-T22	PL58P1	S	M39029/56-351	TB136/2	A	001104-202-02	N.A.
L1264A22-G	A556A-T22	PL58P2	F	M39029/56-351	SP1712	N.A.	N.A.	N.A.
L1264B22-G	A556A-T22	PL58P2	T	M39029/56-351	SP1712	N.A.	N.A.	N.A.
L1264C22-G	A556A-T22	PL58P2	U	M39029/56-351	SP1713	N.A.	N.A.	N.A.
L1276A22-G	A561A-T3-22(WH)	PL58P2	C	M39029/56-351	P114	77	M39029/58-360	M23053/8-004-C
	A561A-T3-22(BL)	PL58P2	D	M39029/56-351	P114	78	M39029/58-360	M23053/8-004-C
	A561A-T3-22(OR)	PL58P2	E	M39029/56-351	P114	86	M39029/58-360	M23053/8-004-C
L1269B22-G	A556A-T22	SP1599	N.A.	N.A.	P120	61	M39029/58-360	N.A.
L1269D22-G	A556A-T22	SP1599	N.A.	N.A.	PL58P1	U	M39029/56-351	N.A.
L1264D22N-G	A556A-T22	SP1712	N.A.	N.A.	TB134P1	V	M39029/56-351	N.A.
L1264E22-G	A556A-T22	SP1712	N.A.	N.A.	SP1713	N.A.	N.A.	N.A.

Figure 26

**TABLE 3**  
NVG Light Variant C/A B1B466 (P/N 3G9B01B46602)

WIRE		FROM			TO			INSULE TUBE P/N
Identification	P/N	Ref Des Connection	Pin	Electrical Contact	Ref Des Connection	Pin	Electrical Contact	
L1262B22-G	A556A-T22	J120	65	M39029/56-348	PL1P6	k	M39029/58-363	N.A.
L1268A22-G	A556A-T22	J120	62	M39029/56-348	PL1P6	HH	M39029/58-363	N.A.
L1269A22-G	A556A-T22	J120	61	M39029/56-348	PL1P6	EE	M39029/58-363	N.A.
L1267J22-G	A556A-T22	J204	r	M39029/56-351	SP2827	N.A.	N.A.	N.A.
L1271A22-G	A561A-T1-22	J204	u	M39029/56-351	PL1P6	a	M39029/58-363	M23053/8-004-C
L3305A22-G	A556A-T22	PL1P10	L	M39029/58-363	J212	W	M39029/56-351	N.A.
L1270A22-G	A556A-T22	PL1P6	H	M39029/58-363	J120	60	M39029/56-348	N.A.
L1274A22-G	A561A-T2-22(BL)	PL1P6	h	M39029/58-363	J120	59	M39029/56-348	M23053/8-004-C
	A561A-T2-22(WH)	PL1P6	p	M39029/58-363	J120	58	M39029/56-348	M23053/8-004-C
L1266B22-G	A556A-T22	SP2826	N.A.	N.A.	J120	64	M39029/56-348	N.A.
L1266C22-G	A556A-T22	SP2826	N.A.	N.A.	TB2122	2A	A523A-A05	N.A.
L1266D22-G	A556A-T22	SP2826	N.A.	N.A.	P249	R	M39029/58-363	N.A.
L1266F22-G	A556A-T22	SP2826	N.A.	N.A.	J204	q	M39029/56-351	N.A.
L1267K22-G	A556A-T22	SP2827	N.A.	N.A.	TB2122	2B	A523A-A05	N.A.
L1267L22-G	A556A-T22	SP2827	N.A.	N.A.	P249	P	M39029/58-363	N.A.
L1267N22-G	A556A-T22	SP2827	N.A.	N.A.	J120	63	M39029/56-348	N.A.

**TABLE 4**  
NVG Light Variant C/A C1B264 (P/N 3G9C01B26402)

WIRE		FROM			TO			INSULE TUBE P/N
Identification	P/N	Ref Des Connection	Pin	Electrical Contact	Ref Des Connection	Pin	Electrical Contact	
L1266P22-G	A556A-T22	P300	H	M39029/56-351	SP3201	N.A.	N.A.	N.A.
L1267A22-G	A556A-T22	P300	J	M39029/56-351	SP3202	N.A.	N.A.	N.A.
L1271B22-G	A561A-T1-22	P300	U	M39029/56-351	P204	u	M39029/58-363	M23053/8-004-C
H1266J22-G	A556A-T22	SP3199	N.A.	N.A.	P301	J	M39029/58-363	N.A.
L1266G22-G	A556A-T22	SP3199	N.A.	N.A.	P204	q	M39029/58-363	N.A.
L1266H22-G	A556A-T22	SP3199	N.A.	N.A.	TB3036	2A	A523A-A05	N.A.
L1267E22-G	A556A-T22	SP3200	N.A.	N.A.	TB3036	2B	A523A-A05	N.A.
L1267F22-G	A556A-T22	SP3200	N.A.	N.A.	P301	H	M39029/58-363	N.A.
L1267H22-G	A556A-T22	SP3200	N.A.	N.A.	P204	r	M39029/58-363	N.A.
L1266L22-G	A556A-T22	SP3201	N.A.	N.A.	SP3199	N.A.	N.A.	N.A.
L1266M22-G	A556A-T22	SP3201	N.A.	N.A.	J3024	1	M39029/56-348	N.A.
L1267B22-G	A556A-T22	SP3202	N.A.	N.A.	J3024	3	M39029/56-348	N.A.
L1267D22-G	A556A-T22	SP3202	N.A.	N.A.	SP3200	N.A.	N.A.	N.A.

**Figure 27**

**TABLE 5**  
**NVG Light Variant C/A D1B213 (P/N 3G9D01B21302)**

WIRE		FROM			TO			INSULE TUBE P/N
Identification	P/N	Ref Des Connection	Pin	Electrical Contact	Ref Des Connection	Pin	Electrical Contact	
L1266R20-G	A561A-T2-20(WH)	P400	L	M39029/58-364	J300	H	M39029/58-363	M23053/8-005-C
	A561A-T2-20(BL)	P400	M	M39029/58-364	J300	J	M39029/58-363	M23053/8-005-C
L1271C22-G	A561A-T1-22	P400	K	M39029/58-363	J300	U	M39029/58-363	M23053/8-004-C
L1272B22-G	A561A-T2-22(WH)	P400	D	M39029/58-363	J300	X	M39029/58-363	M23053/8-004-C
	A561A-T2-22(BL)	SP412	N.A.	N.A.	J300	Y	M39029/58-363	M23053/8-004-C
L1273A22-G	A556A-T22	P400	E	M39029/58-363	SP412	N.A.	N.A.	N.A.
L1276D22-G	A561A-T3-22(WH)	P400	A	M39029/58-363	J300	P	M39029/58-363	M23053/8-004-C
	A561A-T3-22(BL)	P400	B	M39029/58-363	J300	p	M39029/58-363	M23053/8-004-C
	A561A-T3-22(OR)	P400	F	M39029/58-363	J300	q	M39029/58-363	M23053/8-004-C
L1272A22-G	A556A-T22	SP412	N.A.	N.A.	P400	H	M39029/58-363	M23053/8-004-C
L1277A20-G	A561A-T1-20	SP406	N.A.	N.A.	P400	C	M39029/58-364	M23053/8-004-C
L1278A20N-G	A561A-T1-20	TB400P1	b	M39029/56-351	P400	G	M39029/58-364	M23053/8-004-C

**Figure 28**

S.B. N°139-582 OPTIONAL  
DATE: November 9, 2023  
REVISION: /



TABLE 6 NVG Light Variant C/A COMPONENT		
Ref Des Connection	P/N Connection	P/Nnection
J3024	D38999/20WA35SN	A532A400-0902T
P400	D38999/26JD97PN	A529A400-1502B
PL58P1	D38999/26WD19SN	A532A400-1502T
PL58P2	D38999/26WD19SA	A532A400-1502T
SP1599	M81824/1-1	N.A.
SP1712	M81824/1-2	N.A.
SP1713	M81824/1-2	N.A.
SP1743	M81824/1-2	N.A.
SP2826	M81824/1-1	N.A.
SP2827	M81824/1-1	N.A.
SP3199	M81824/1-1	N.A.
SP3200	M81824/1-1	N.A.
SP3201	M81824/1-1	N.A.
SP3202	M81824/1-1	N.A.
SP412	M81824/1-1	N.A.
TB2122	A596A04	N.A.
TB3036	A596A04	N.A.

THE CONNECTION SHOWN IN TABLES 1 THRU 5 (REF DES CONNECTION) NOT PRESENT IN TABLE 6 ARE ALREADY INSTALLED ON THE HELICOPTERS

**Figure 29**

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