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**SERVICE BULLETIN**

**N° 139-516**

**DATE:** January 18, 2022

**REV. :** /

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**TITLE**

**ATA 95 – EMERGENCY FLOTATION AND LIFE RAFT SYSTEMS CONVERSION TO  
DART INTEGRATED SYSTEM**

**REVISION LOG**

First Issue

## **1. PLANNING INFORMATION**

### **A. EFFECTIVITY**

Part I: AW139 helicopters from S/N 31201 onwards and from S/N 41201 onwards, equipped with kit Floats P/N 3G9560F00113 and not equipped with any kit Life Rafts.

Part II: AW139 helicopters from S/N 31201 onwards and from S/N 41201 onwards, equipped with kit Floats P/N 3G9560F00113 and not equipped with any kit Life Rafts.

### **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 Floats with integrated Life Rafts retromod P/N 3G9560P00511.

### **E. DESCRIPTION**

This Service Bulletin has been developed to perform the retromod P/N 3G9560P00511, thus allowing helicopters already equipped with kit floats and life rafts the installation of the kit P/N 4G9560F00111 (Floats with integrated life rafts of capacity rated 10 / overload 15 pax).

This system has been designed to operate on helicopters up to 7000 kg Maximum Take-Off Weight (MTOW).

The Emergency Flotation Systems with Integrated Life Rafts are composed of:

- n°2 FWD flotation assemblies (rigid covers) mounted on the left and right side of the lower nose section of the aircraft;
- n°2 AFT flotation assemblies (rigid covers) mounted on the left and right side of the rear main cabin of the aircraft, each including an integrated life raft assembly;
- n°1 EFS inflation system, including one cylinder and one electric inflation valve, that will be installed below the rear baggage compartment floor;
- n°2 life rafts inflation systems mounted inside the sponson aft pod;
- n°4 inflation handles and cables, installed in the cockpit and cabin areas.

The float switches and the fixed parts (control panel) are not changed with respect to the current flotation systems already certified.

Being the control panel not changed, the NVG compatibility of the new kits is obtained through the already certified variant P/N 4G3360F00711, which replaces the control panel with its NVG version.

Part I of this Service Bulletin gives the necessary instructions to perform the electrical retro-modification to allow installation of the kit Emergency Flotation 15/18 pax life rafts.

Part II of this Service Bulletin gives the necessary instructions to perform the fixed and removable parts retro-modification to allow installation of the kit Emergency Flotation 15 pax life rafts.

## **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:

Part I: approximately forty (40) MMH.

Part II: approximately five hundred (500) MMH.

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

## H. WEIGHT AND BALANCE

### PART I

WEIGHT (kg)	ARM (mm)	MOMENT (kgmm)
		0.3
<b>LONGITUDINAL BALANCE</b>	8113	2433.9
<b>LATERAL BALANCE</b>	-135	-40.5

### PART II

Update the Chart A as described in the following procedure:

1. The following existing entry in Chart A must be deleted:

**P/N 3G9560F00113**

*“Kit Emergency Floats”*

2. For helicopters that apply the whole Part II (complete provision and removable parts) the following entry in Chart A must be added:

*“SB 139-516 Part II”*

WEIGHT (kg)	ARM (mm)	MOMENT (kgmm)
		142.26
<b>LONGITUDINAL BALANCE</b>	6318.83	898917.12
<b>LATERAL BALANCE</b>	-83.73	-11911.85

3. For helicopters that DO NOT install removable parts of the kit P/N 4G9560F00111, the following entry in Chart A must be added:

*“SB 139-516 Part II provision”*

WEIGHT (kg)	ARM (mm)	MOMENT (kgmm)
		18.14
<b>LONGITUDINAL BALANCE</b>	664.13	89648.12
<b>LATERAL BALANCE</b>	83.73	12047.36

## 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.	All
DM02 39-A-06-41-00-00A-010A-A	Access doors and panels - General data.	All
DM03 39-A-11-00-01-00A-720A-A	Decal - Install procedure.	All
DM04 39-A-20-00-00-00A-69CA-A	Assembled parts - Slippage Marks	II
DM05 39-A-20-10-01-00A-259A-A	Ground connections - Other procedures to protect surfaces	II

<u>DATA MODULE</u>		<u>DESCRIPTION</u>	<u>PART</u>
DM06	39-A-20-10-09-00A-920A-A	Bonded studs - Replacement	I
DM07	39-E-25-62-00-00A-320A-K	Life raft installation - Life raft control cables - Operation test	II
DM08	39-E-25-62-03-00A-720A-K	Left life raft control cable - Install procedure	II
DM09	39-E-25-62-04-00A-720A-K	Right life raft control cable - Install procedure	II
DM10	39-E-25-62-05-00A-921A-K	Left external handle - Replacement (remove and install a new item)	II
DM11	39-E-25-62-06-00A-921A-K	Right external handle - Replacement (remove and install a new item)	II
DM12	39-E-25-62-07-00A-921A-K	Left inflation handle - Replacement (remove and install a new item)	II
DM13	39-E-25-62-08-00A-921A-K	Right inflation handle - Replacement (remove and install a new item)	II
DM14	39-A-25-81-03-00A-520A-A	Left lining installation - Remove procedure	II
DM15	39-A-25-81-04-00A-520A-A	Right lining installation - Remove procedure	II
DM16	39-C-95-61-00-00A-320A-K	Emergency flotation system - Operation test	II
DM17	39-C-95-61-00-00A-364A-K	Emergency flotation system - Inflation pipe - Leak check	II
DM18	39-C-95-61-01-00A-520A-K	Forward left float assembly - Remove procedure	II
DM19	39-C-95-61-01-00A-720A-K	Forward left float assembly - Install procedure	II
DM20	39-C-95-61-02-00A-520A-K	Forward right float assembly - Remove procedure	II
DM21	39-C-95-61-02-00A-720A-K	Forward right float assembly - Install procedure	II
DM22	39-C-95-61-03-00A-520A-K	Aft left float assembly - Remove procedure	II
DM23	39-C-95-61-03-00A-720A-K	Aft left float assembly - Install procedure	II
DM24	39-C-95-61-04-00A-520A-K	Aft right float assembly - Remove procedure	II
DM25	39-C-95-61-04-00A-720A-K	Aft right float assembly - Install procedure	II
DM26	CSRP-A-51-21-01-02A-257A-D	Polyurethane paint (MIL-PRF-85285) - Paint and apply marking	II

<u>DATA MODULE</u>	<u>DESCRIPTION</u>	<u>PART</u>
DM27	CSRP-A-51-42-00-00A-720A-D Potted inserts - Install procedure	II

## 2) ACRONYMS & ABBREVIATIONS

AMDI	Aircraft Material Data Information
AMP	Aircraft Maintenance Publication
AR	As Required
AVCS	Active Vibration Control System
CSRP	Common Structural Repair Publication
DM	Data Module
DOA	Design Organization Approval
EFS	Emergency Flotation System
EASA	European Aviation Safety Agency
ITEP	Illustrated Tool and Equipment Publication
LHD	Leonardo Spa Helicopters
MLG	Main Landing Gear
MMH	Maintenance Man Hours

## 3) ANNEX

N.A.

## J. PUBLICATIONS AFFECTED

N.A.

## K. SOFTWARE ACCOMPLISHMENT SUMMARY

N.A.

## 2. MATERIAL INFORMATION

### A. REQUIRED MATERIALS

#### 1) PARTS

##### PART I

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
1	3G9560P00711		KIT EMERGENCY FLOTATION 15 PAX RETROMOD	REF	.		-
2	3G9560P00111		EMERGENCY FLOAT DART VARIANT	REF	..		-
3	3G9C02A36901		Emergency Float DART Variant C/A	1	...		139-516L1
4	A388A3E08C		Stud	4	...		139-516L1
5	A423A3C8		Anchor Nut	1	...		139-516L1
6	AW001CB08H		Clamp	10	...		139-516L1
7	ED300K330		Decal	1	...		139-516L1
8	ED300K331		Decal	1	...		139-516L1
9	NAS1149D0332J		Washer	5	...		139-516L1
10	NAS1190E3P20AK		Screw	3	...		139-516L1
11	NAS1190E3P7AK		Screw	1	...		139-516L1
12	NAS1802-3-9		Screw	1	...		139-516L1
13	NAS43DD3-55N		Spacer	3	...		139-516L1
14	M39029/92-534	A523A-B02	Electrical contact	2	.		139-516L1

##### PART II

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
15	3G9560P00711		KIT EMERGENCY FLOTATION 15 PAX RETROMOD	REF	.		-
16	3G2560A08412		LIFERAFTS COMPLETE PROVISION	REF	..		-
17	3G2560A08512		LH SIDE LIFERAFT CABLES INSTALLATION	REF	...		-
18	3G2560A11131		Bracket Assy LH	1	....		139-516L2
19	3G2560V01732		Pilot Handle and Cable Assy	1	....		139-516L2
20	3G2560V02032		Back-Up Handle and Cable Assy	1	....		139-516L2
21	3G5317A43533		Cover Handle Assy	1	....		139-516L2
22	999-8001-64-1		Sleeve	10 m	....		139-516L2
23	A366A3E08C75		Standoff	2	....		139-516L2
24	A366A3E12C75		Standoff	1	....		139-516L2
25	A366A3E16C75		Standoff	1	....		139-516L2
26	A366A3E18C		Standoff	2	....		139-516L2
27	A388A3E20C75		Standoff	1	....		139-516L2
28	A631A01A		Spacers	1	....		139-516L2
29	AN3-35A		Bolt	1	....		139-516L2
30	AN3-36A		Bolt	2	....		139-516L2
31	AN3C3A		Bolt	4	....		139-516L2
32	AN3C7A		Bolt	1	....		139-516L2
33	AS21919WDF05		Clamp	46	....		139-516L2
34	AW001CK05HS		Strap,Tiedown	8	....		139-516L2
35	AW002FT109		Grommet Rubber	1	....		139-516L2

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
36	AW002FT503		Grommet Rubber	6	....		139-516L2
37	MS20995C32		Lock Wire	0.45 kg	....		139-516L2
38	MS20995CY20		Lock Wire	0.45 kg	....		139-516L2
39	MS21042L3		Nut	9	....		139-516L2
40	MS24694-S51		Screw	3	....		139-516L2
41	MS24694-S73		Screw	1	....		139-516L2
42	MS27039-1-24		Screw	1	....		139-516L2
43	MS27039-1-28		Screw	1	....		139-516L2
44	MS27039-1-34		Screw	1	....		139-516L2
45	MS27039-1-35		Screw	2	....		139-516L2
46	MS27039-1-37		Screw	1	....		139-516L2
47	MS27039-1-48		Screw	3	....		139-516L2
48	MS27039-1-52		Screw	3	....		139-516L2
49	MS35489-35		Grommet Rubber	2	....		139-516L2
50	MS35489-6		Grommet Rubber	1	....		139-516L2
51	MS35489-64		Grommet Rubber	1	....		139-516L2
52	MS35489-9		Grommet Rubber	1	....		139-516L2
53	MS9592-107		Bracket	2	....		139-516L2
54	NAS1149C0332R		Washer	6	....		139-516L2
55	NAS1149C0363R		Washer	4	....		139-516L2
56	NAS1149D0332K		Washer	30	....		139-516L2
57	NAS1190E3P20AK		Screw	1	....		139-516L2
58	NAS1802-3-14		Screw	1	....		139-516L2
59	NAS1802-3-17		Screw	2	....		139-516L2
60	NAS1802-3-26		Screw	1	....		139-516L2
61	NAS1802-3-38		Screw	2	....		139-516L2
62	NAS1802-3-8		Screw	5	....		139-516L2
63	NAS43DD3-107N		Spacer	1	....		139-516L2
64	NAS43DD3-126N		Spacer	3	....		139-516L2
65	NAS43DD3-129N		Spacer	1	....		139-516L2
66	NAS43DD3-176N		Spacer	4	....		139-516L2
67	NAS43DD3-20N		Spacer	1	....		139-516L2
68	NAS43DD3-216N		Spacer	2	....		139-516L2
69	NAS43DD3-25N		Spacer	1	....		139-516L2
70	NAS43DD3-30N		Spacer	3	....		139-516L2
71	NAS43DD3-34N		Spacer	6	....		139-516L2
72	NAS43DD3-40N		Spacer	3	....		139-516L2
73	NAS43DD3-64N		Spacer	1	....		139-516L2
74	NAS43DD3-92N		Spacer	1	....		139-516L2
75	NAS43DD3-96N		Spacer	2	....		139-516L2
<b>76</b>	<b>3G2560A08612</b>		<b>RH SIDE LIFERAFT CABLES INSTALLATION</b>	<b>REF</b>	<b>...</b>		<b>-</b>
77	3G2560A11231		Bracket Assy RH	1	....		139-516L2
78	3G2560V01732		Pilot Handle and Cable Assy	1	....		139-516L2
79	3G2560V02032		Back-Up Handle and Cable Assy	1	....		139-516L2
80	3G5317A43533		Cover Handle Assy	1	....		139-516L2
81	999-8001-64-1		Sleeve	10 m	....		139-516L2
82	A366A3E08C75		Standoff	2	....		139-516L2
83	A366A3E12C75		Standoff	1	....		139-516L2
84	A366A3E16C75		Standoff	1	....		139-516L2
85	A366A3E18C75		Standoff	2	....		139-516L2
86	A388A3E20C75		Standoff	1	....		139-516L2
87	A366A3E22C		Standoff	2	....		139-516L2
88	AN3C3A		Bolt	4	....		139-516L2
89	AN3C7A		Bolt	1	....		139-516L2



#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
90	AS21919WDF05		Clamp	41	....		139-516L2
91	AW001CK05HS		Strap,Tiedown	8	....		139-516L2
92	AW002FT109		Grommet Rubber	1	....		139-516L2
93	AW002FT503		Grommet Rubber	7	....		139-516L2
94	MS20995C32		Lock Wire	0,45 kg	....		139-516L2
95	MS20995CY20		Lock Wire	0,45 kg	....		139-516L2
96	MS21042L3		Nut	11	....		139-516L2
97	MS24694-S51		Screw	3	....		139-516L2
98	MS24694-S73		Screw	1	....		139-516L2
99	MS27039-1-24		Screw	1	....		139-516L2
100	MS27039-1-35		Screw	2	....		139-516L2
101	MS27039-1-36		Screw	1	....		139-516L2
102	MS27039-1-40		Screw	1	....		139-516L2
103	MS27039-1-42		Screw	3	....		139-516L2
104	MS27039-1-43		Screw	1	....		139-516L2
105	MS27039-1-50		Screw	1	....		139-516L2
106	MS27039-1-52		Screw	3	....		139-516L2
107	MS35489-35		Grommet Rubber	2	....		139-516L2
108	MS35489-6		Grommet Rubber	1	....		139-516L2
109	MS35489-64		Grommet Rubber	1	....		139-516L2
110	MS35489-9		Grommet Rubber	1	....		139-516L2
111	MS9592-107		Bracket	2	....		139-516L2
112	NAS1149C0332R		Washer	6	....		139-516L2
113	NAS1149C0363R		Washer	4	....		139-516L2
114	NAS1149D0332K		Washer	28	....		139-516L2
115	NAS1802-3-17		Screw	2	....		139-516L2
116	NAS1802-3-26		Screw	1	....		139-516L2
117	NAS1802-3-39		Screw	1	....		139-516L2
118	NAS1802-3-43		Screw	1	....		139-516L2
119	NAS1802-3-8		Screw	5	....		139-516L2
120	NAS43DD3-122N		Spacer	2	....		139-516L2
121	NAS43DD3-134N		Spacer	1	....		139-516L2
122	NAS43DD3-140N		Spacer	2	....		139-516L2
123	NAS43DD3-170N		Spacer	1	....		139-516L2
124	NAS43DD3-174N		Spacer	1	....		139-516L2
125	NAS43DD3-176N		Spacer	1	....		139-516L2
126	NAS43DD3-188N		Spacer	1	....		139-516L2
127	NAS43DD3-25N		Spacer	1	....		139-516L2
128	NAS43DD3-30N		Spacer	3	....		139-516L2
129	NAS43DD3-40N		Spacer	3	....		139-516L2
130	NAS43DD3-50N		Spacer	1	....		139-516L2
131	NAS43DD3-55N		Spacer	1	....		139-516L2
132	NAS43DD3-64N		Spacer	1	....		139-516L2
133	NAS43DD3-92N		Spacer	2	....		139-516L2
134	NAS43DD3-96N		Spacer	2	....		139-516L2
<b>135</b>	<b>3G2560A10112</b>		<b>JUNCTION BOX LH INSTALLATION</b>	<b>REF</b>	<b>...</b>		<b>-</b>
136	3G2560V01451		Junction Box	1	....		139-516L2
137	3G2560V01852		Inflation System Activation Cable	1	....		139-516L2
138	3G5317A30632	3G5310P07531	LH Junction Box Cover Assy	1	....		139-516L2
139	A366A3E08C75		Standoff	3	....		139-516L2
140	A388A3E24C75		Standoff	3	....		139-516L2
141	AS21919WDF06		Clamp	1	....		139-516L2
142	MS20995C41		Lock Wire	0.45 kg	....		139-516L2
143	MS21043-3		Nut	3	....		139-516L2

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
144	MS27039-1-10		Screw	2	....		139-516L2
145	MS35489-38		Grommet Rubber	1	....		139-516L2
146	NAS1149C0332R		Washer	3	....		139-516L2
147	NAS1149D0332K		Washer	1	....		139-516L2
148	NAS1149F0316P		Washer	4	....		139-516L2
149	NAS1149F0363P		Washer	2	....		139-516L2
150	NAS1190E3P7AK		Screw	3	....		139-516L2
<b>151</b>	<b>3G2560A10212</b>		<b>JUNCTION BOX RH INSTALLATION</b>	<b>REF</b>	<b>...</b>		<b>-</b>
152	3G2560V01451		Junction Box	1	....		139-516L2
153	3G2560V01852		Inflation System Activation Cable	1	....		139-516L2
154	3G5317A30732	3G5310P07631	RH Junction Box Cover Assy	1	....		139-516L2
155	A366A3E08C75		Standoff	3	....		139-516L2
156	A388A3E24C75		Standoff	3	....		139-516L2
157	AS21919WDF06		Clamp	1	....		139-516L2
158	MS20995C41		Lock Wire	0.45 kg	....		139-516L2
159	MS21043-3		Nut	3	....		139-516L2
160	MS27039-1-10		Screw	2	....		139-516L2
161	MS35489-38		Grommet Rubber	1	....		139-516L2
162	NAS1149C0332R		Washer	3	....		139-516L2
163	NAS1149D0332K		Washer	1	....		139-516L2
164	NAS1149F0316P		Washer	4	....		139-516L2
165	NAS1149F0363P		Washer	2	....		139-516L2
166	NAS1190E3P8AK		Screw	3	....		139-516L2
<b>167</b>	<b>3G2560P00312</b>		<b>VERNIER ICE DETECTOR VARIANT</b>	<b>REF</b>	<b>...</b>	<b>(1)</b>	<b>-</b>
168	MS9592-094		Bracket	1	....		139-516L2
169	NAS1832-3-4		Insert	1	....		139-516L2
<b>170</b>	<b>3G2560P00412</b>		<b>CARGO HOOK VARIANT (DART)</b>	<b>REF</b>	<b>...</b>	<b>(2)</b>	<b>-</b>
171	NAS1801-3-33		Screw	1	....		139-516L2
172	NAS43DD3-40N		Spacer	1	....		139-516L2
<b>173</b>	<b>3G2560P01012</b>		<b>LH SIDE AVCS VARIANT CABLES INSTALLATION</b>	<b>REF</b>	<b>...</b>	<b>(3)</b>	<b>-</b>
174	A366A3E26C75		Standoff	1	....		139-516L2
175	AN3-10A		Bolt	1	....		139-516L2
176	AW001TL3A16T		Anchor Nut	2	....		139-516L2
177	NAS1802-3-17		Screw	1	....		139-516L2
178	NAS43DD3-28N		Spacer	2	....		139-516L2
179	NAS43DD3-70N		Spacer	1	....		139-516L2
<b>180</b>	<b>3G2560P01111</b>		<b>RH AFT FAIRING VARIANT FOR TCAS II</b>	<b>REF</b>	<b>...</b>	<b>(7)</b>	<b>-</b>
181	3G2560P01131	3G2560P01131M01	RH Aft Fairing Rework	1	....	(9)	139-516L3
182	3G2560P01132	3G2560P01132M01	RH Aft Fairing Rework	1	....	(10)	139-516L4
183	3G2560P01151	3G2560P01151M01	Cover	1	....		139-516L3 139-516L4
184	A299A05TW02		Rivet	13	....		139-516L3 139-516L4
<b>185</b>	<b>3G2560P01212</b>		<b>RH Cables Installation Variant TCAS II</b>	<b>REF</b>	<b>...</b>	<b>(4)</b>	<b>-</b>
186	A366A3E14C75		Standoff	1	....		139-516L5
187	A631A01A		Spacer	1	....		139-516L5
188	AW001CK05HS		Tiedown Strap	2	....		139-516L5
189	AW002FT109		Grommet Rubber	1	....		139-516L5
190	MS21042L3		Nut	1	....		139-516L5
191	MS35489-35		Grommet	1	....		139-516L5
192	NAS43DD3-20N		Spacer	1	....		139-516L5

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
193	NAS43DD3-170N		Spacer	1	....		139-516L5
194	MS27039-1-50		Screw	1	....		139-516L5
<b>195</b>	<b>3G2560P01511</b>		<b>LH SIDE LIFERAFT CABLES VARIANT</b>	<b>REF</b>	<b>...</b>	<b>(8)</b>	
196	MS27039-1-12		Screw	2	....		139-516L2
197	NAS43DD3-15N		Spacer	2	....		139-516L2
<b>198</b>	<b>3G2810P00211</b>		<b>VENTING PIPES RETROMOD (DART)</b>	<b>REF</b>	<b>...</b>		-
199	3G2810A02731		Pipe Assy LH	1	....		139-516L2
200	3G2810A02831		Pipe Assy RH	1	....		139-516L2
<b>201</b>	<b>3G5311A09911</b>		<b>LIFERAFTS STRUCTURAL PROVISION</b>	<b>REF</b>	<b>...</b>		-
202	3G3070A12351		Support Plate	2	....		139-516L2
203	A196A437B		Plug	1	....		139-516L2
204	A236A01AB		Nonmetallic Channel	2.4 m	....		139-516L2
205	A236A03AB1400	A236A03AB	Nonmetallic Channel	2.4 m	....		139-516L2
206	A305A25C1Y		Tape Velcro	10 m	....		139-516L2
207	A366A3E16C75		Standoff	1	....		139-516L2
208	A409A001AL		Bracket	1	....		139-516L2
209	A409A001AR		Bracket	1	....		139-516L2
210	A423A3A8		Anchor nut	5	....		139-516L2
211	A900A3E2-03		Nut	2	....		139-516L2
212	AW001CL509-N6		Support	2	....		139-516L2
213	MS20426AD3-7		Rivet	0.1 kg	....		139-516L2
214	MS20426AD4-7		Rivet	0.1 kg	....		139-516L2
215	MS21069L3		Anchor Nut	19	....		139-516L2
216	NAS1720C4L2P		Rivet	4	....		139-516L2
217	NAS1832-3-3		Insert	2	....		139-516L2
218	NAS1832-3-4		Insert	6	....		139-516L2
219	NAS1832C3-5		Insert	6	....		139-516L2
220	NAS1836-3-15		Insert	8	....		139-516L2
221	NAS9301B-4-06		Rivet	2	....		139-516L2
<b>222</b>	<b>3G5320P01111</b>		<b>PILOTS CABIN LINERS VARIANT (FIBER)</b>	<b>REF</b>	<b>...</b>	<b>(5)</b>	-
223	3G5320A17631		Lower Pilot Cover Door Assy RH	1	....		-
224	3G5320A17731		Lower Pilot Cover Door Assy LH	1	....		-
225	3G5320P01231		Upper pilot cover door assy RH	REF	....		-
226	3G5320P01331		Upper pilot cover door assy LH	REF	....		-
<b>227</b>	<b>3G5320P01112</b>		<b>PILOTS CABIN LINERS VARIANT (POLYCARB)</b>	<b>REF</b>	<b>...</b>	<b>(6)</b>	-
228	3G5320L03731		Pilot Cover Door Upper LH	1	....		139-516L6
229	3G5320L03831		Pilot Cover Door Upper RH	1	....		139-516L6
230	3G5320L03931		Pilot Cover Door Lower LH	1	....		139-516L6
231	3G5320L04031		Pilot Cover Door Lower RH	1	....		139-516L6
<b>232</b>	<b>3G5339A21111</b>		<b>MLG AFT FAIRING DART INSTALLATION</b>	<b>REF</b>	<b>...</b>		-
233	3G5339A19832	3G5339A19832M01	MLG Aft Left Fairing Assy	1	....	(9)	139-516L7
234	3G5339A19932	3G5339A19932M01	MLG Aft Right Fairing Assy	1	....	(9)	139-516L7
235	3G5339A20931	3G5339A20931M01	MLG Aft Left Fairing Hinged Door Assy	1	....	(10)	139-516L8
236	3G5339A21031	3G5339A21031M01	MLG Aft Right Fairing Hinged Door Assy	1	....	(10)	139-516L8
237	MS24694-C50		Screw	8	....		139-516L7 139-516L8

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
<b>238</b>	<b>3G2560A08711</b>		<b>LIFERAFTS REMOVABLE PARTS</b>	<b>REF</b>	..		-
<b>239</b>	<b>3G2560A08811</b>		<b>LH SIDE LIFERAFT INFLATION SYSTEM</b>	<b>REF</b>	...		-
240	3G2560A12551		Decal life raft safety pin	1	....		139-516L2
241	3G2560L00131		Flex Hose	1	....		139-516L2
242	3G2560V01251	3G2560V01252	LH Liferaft Reservoir	1	....		139-516L2
243	3G2560V01551		Life Raft Bottle Pressure Chart	1	....		139-516L2
244	3G5317A30832		Liferafts Bottle First Support	1	....		139-516L2
245	3G5317A31032		Liferafts Bottle Second Support	1	....		139-516L2
246	3G5317A49151		Angle	1	....		139-516L2
247	A195A003		Protective Bag	1	....		139-516L2
248	MS21920-47		Clamp	2	....		139-516L2
249	MS35489-14		Grommet	1	....		139-516L2
250	NAS1149FN832P		Washer	14	....		139-516L2
251	NAS1802-08-9		Screw	14	....		139-516L2
252	NAS1802-3-12		Screw	1	....		139-516L2
<b>253</b>	<b>3G2560A08911</b>		<b>RH SIDE LIFERAFT INFLATION SYSTEM</b>	<b>REF</b>	...		-
254	3G2560A12551		Decal life raft safety pin	1	....		139-516L2
255	3G2560L00131		Flex Hose	1	....		139-516L2
256	3G2560V01551		Life Raft Bottle Pressure Chart	1	....		139-516L2
257	3G2560V01951	3G2560V01952	RH Liferaft Reservoir	1	....		139-516L2
258	3G5317A30832		Liferafts Bottle First Support	1	....		139-516L2
259	3G5317A31032		Liferafts Bottle Second Support	1	....		139-516L2
260	3G5317A49151		Angle	1	....		139-516L2
261	A195A003		Protective Bag	1	....		139-516L2
262	MS21920-47		Clamp	2	....		139-516L2
263	MS35489-14		Grommet	1	....		139-516L2
264	NAS1149FN832P		Washer	14	....		139-516L2
265	NAS1802-08-9		Screw	14	....		139-516L2
266	NAS1802-3-12		Screw	1	....		139-516L2
<b>267</b>	<b>3G9560P00611</b>		<b>KIT EMERG FLOAT 15 PAX RETROMOD</b>	<b>REF</b>	..		-
268	3G9560A06631	3G9560A06631K2 or 3G9560A06631K3	EFS Loom Assy	1	...	(11) (12)	-
269	3G9560A07751		Bracket	1	...		139-516L2
270	3G9560A07951		Cap For Flared Fitting	4	...		139-516L2
271	3G9560A08731		Bracket Assy	1	...		139-516L2
272	3G9560A08851		Fitting 4 Way	1	...		139-516L2
273	3G9560L00132		Flex Hose (EFS)	1	...		139-516L2
274	3G9560L00231		Flex Hose (EFS)	1	...		139-516L2
275	3G9560L00332		Flex Hose (EFS)	1	...		139-516L2
276	3G9560L00431		Flex Hose (EFS)	1	...		139-516L2
277	3G9560L00531		Flex Hose (EFS)	1	...		139-516L2
278	3G9560V04131		Fwd Float Left Assy	1	...		139-516L2
279	3G9560V04231		Fwd Float Right Assy	1	...		139-516L2
280	3G9560V04431		Aft RH Float And 15 Pax Assy	1	...		139-516L2
281	3G9560V06231		Aft LH Complete 15 Pax Assy	1	...		139-516L2
282	A366A3E28C75		Stud	1	...		139-516L2
283	A423A3A6		Nutplate	1	...		139-516L2
284	A428A3C11		Screw	150	...		139-516L2

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
285	A428A3C12		Screw	46	...		139-516L2
286	A428A3C16		Screw	4	...		139-516L2
287	A601A3B08		Bonding And Earthing Cable Assy	1	...		139-516L2
288	A601A3B12		Bonding Cable	1	...		139-516L2
289	A601A3B15		Bonding Cable	1	...		139-516L2
290	AN735D12		Clamp	1	...		139-516L2
291	AS21919WCG12		Clamp	24	...		139-516L2
292	AS5178T10		Nut	1	...		139-516L2
293	MS20426AD3-7		Rivet	0.1 kg	...		139-516L2
294	MS20470AD4-7		Rivet	0.1 kg	...		139-516L2
295	MS21043-3		Nut	10	...		139-516L2
296	MS21069L3		Nut	2	...		139-516L2
297	MS21070L3		Nut	1	...		139-516L2
298	MS27039-0805		Screw	4	...		139-516L2
299	MS27039-1-07		Screw	6	...		139-516L2
300	MS9592-008		Bracket	1	...		139-516L2
301	MS9592-018		Bracket	2	...		139-516L2
302	MS9592-027		Bracket	2	...		139-516L2
303	NAS1149C0332R		Washer	2	...		139-516L2
304	NAS1149C1432R		Washer	1	...		139-516L2
305	NAS1149CN832R		Washer	4	...		139-516L2
306	NAS1149D0332J		Washer	40	...		139-516L2
307	NAS1802-3-12		Screw	1	...		139-516L2
308	NAS1802-3-15		Screw	1	...		139-516L2
309	NAS1802-3-17		Screw	3	...		139-516L2
310	NAS1802-3-22		Screw	1	...		139-516L2
311	NAS1802-3-25		Screw	2	...		139-516L2
312	NAS1802-3-31		Screw	1	...		139-516L2
313	NAS1802-3-37		Screw	1	...		139-516L2
314	NAS1802-3-5		Screw	2	...		139-516L2
315	NAS1802-3-7		Screw	5	...		139-516L2
316	NAS1802-3-8		Screw	8	...		139-516L2
317	NAS1802-3-9		Screw	1	...		139-516L2
318	NAS1832-08-3M		Insert	4	...		139-516L2
319	NAS1832-3-3		Insert	5	...		139-516L2
320	NAS43DD3-122N		Spacer	1	...		139-516L2
321	NAS43DD3-16N		Spacer	1	...		139-516L2
322	NAS43DD3-22N		Spacer	2	...		139-516L2
323	NAS43DD3-30N		Spacer	1	...		139-516L2
324	NAS43DD3-36N		Spacer	2	...		139-516L2
325	NAS43DD3-40N		Spacer	1	...		139-516L2
326	NAS43DD3-60N		Spacer	2	...		139-516L2
327	NAS43DD3-68N		Spacer	1	...		139-516L2
328	NAS43DD3-75N		Spacer	1	...		139-516L2
329	NAS9301B-4-01		Rivet	3	...		139-516L2
330	NAS9301B-4-02		Rivet	16	...		139-516L2
<b>331</b>	<b>3G1130A08611</b>		<b>LIFERAFT LABEL INSTALLATION</b>	<b>REF</b>	<b>..</b>		<b>-</b>
332	3G1130A08451		Life Raft Label RH	2	...		139-516L2
333	3G1130A08551		Life Raft Label LH	2	...		139-516L2
<b>334</b>	<b>3G2560P02711</b>		<b>RH AVCS VARIANT CABLE INSTALLATION</b>	<b>REF</b>	<b>.</b>	<b>(14)</b>	<b>-</b>
335	A366A3E12C		Stud	1	..		139-516L2
336	A366A3E12C75		Stud	2	..		139-516L2
337	NAS43DD3-17N		Spacer	3	..		139-516L2

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
<b>338</b>	<b>3G2560P02811</b>		<b>LIFERAFT CABLE INSTALLATION VARIANT</b>	<b>REF</b>	<b>.</b>	<b>(15)</b>	<b>-</b>
339	AW001CK05HS		Tiedown strap	4	..		139-516L2
340	AW001CL509-N6		Support	4	..		139-516L2
341	AW002FT109		Grommet	4	..		139-516L2
342	MS20470AD4		Rivet	AR	..		139-516L2

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
343	MMM-A-132 Type 1, Class 3 199-05-002 Type II, Class 2	Adhesive EA934NA (C397)	AR	(13)	II
344	MMM-A-132, Type 2, Class II 199-05-002, Type I, Class 2	Adhesive EA9309.3NA (C021)	AR	(13)	All
345	AWMS05-001 Type 1, Class C, Grade 1	Sealant MC-780 C-2 (C465)	AR	(13)	II
346	AWMS05-001 Type 1, Class B, Grade 2	Sealant MC-780 B (C465)	AR	(13)	II
347	MIL-S-46163 Type II Grade N ASTM-D-5363 AN0321 Type 03 Class 2 Grade 1	Sealing compound Loctite 242 (C031)	AR	(13)	II
348	AWTR033	Glass dry fabric cloth (C932) (HexForce 01581 3 1200 Z6040)	AR	(13)	II
349	199-05-002 Type II, Class 3	Adhesive EA 956 AERO (C193)	AR	(13)	II
350	Commercial	3M HI-performance velcro pile SJ3571 black color	AR	(13)	II
351	Commercial	Adhesion promoter 86A (C198)	AR	(13)	II
352	ASTD D5363	Adhesive Loctite 270 (C218)	AR	(13)	II
353	Commercial	Hardener HY5173	AR	(13)	II
354	Commercial	Epoxy resin Araldit LY5138-2	AR	(13)	II
355	900004953 or AW001CK03LC	Lacing cord	AR	(13)	I
356	MIL-PRF-85285	Polyurethane paint color white 17875 (FED-STD-595)	AR	(13)	II
357	999999999000020292	Polyethylene rigid low density foam plastazote LD45FR	AR	(13)	II
358	Commercial	Velcro RMTL438518	AR	(13)	II
359	Commercial	Anti-chafing tape HTR3000FR-150	AR	(13)	II
360	EN6049-006-32-5	Nomex self-wrap braid	AR	(13)	II
361	Commercial	Adhesive CB200-40 (C356)	AR	(13)	II

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
139-516L1	1		Part I
139-516L2	1		
139-516L3	1	(7) (9)	
139-516L4	1	(7) (10)	
139-516L5	1	(4)	
3G5320A17631	1	(5)	Part II
3G5320A17731	1	(5)	
139-516L6	1	(6)	
139-516L7	1	(9)	
139-516L8	1	(10)	
3G9560A06631	1	(11) (12)	

#### NOTE

- (1) This item has to be provided only for helicopters equipped with Vernier Ice Detector P/N 3G3080A01112.
- (2) This item has to be provided only for helicopters equipped with Cargo Hook Complete Provision P/N 4G2592A00312.
- (3) This item has to be provided only for helicopters equipped with Kit AVCS P/N 4G1830F00411/4G1830F00412 or P/N 4G1830F00511/4G1830F00512.
- (4) This item has to be provided only for helicopters equipped with TCAS II Structural Provision P/N 3G5310A89911.
- (5) This item has to be provided only for helicopters equipped with Pilot Cabin Liners Installation P/N 3G2580A07811.
- (6) This item has to be provided only for helicopters equipped with Pilot Cabin Liners Installation Plus Polycarb P/N 3G2580A07813.
- (7) This item has to be provided only for helicopters equipped with Kit TCAS II P/N 4G3450F00211.
- (8) This item has to be provided only for helicopters equipped with Removable Panel Retromod P/N 3G5306P44512.
- (9) This item has to be provided only for helicopters NOT equipped with fuselage VIP pax hinged door variant P/N 3G5300P00211.
- (10) This item has to be provided only for helicopters equipped with fuselage VIP pax hinged door variant P/N 3G5300P00211 or similar hinged door variants.
- (11) Production P/N 3G9560A06631K2 is composed by following items:

P/N	DESCRIPTION	QTY
3G9560A05851	Pipe	1
3G9560A05951	Pipe	1
3G9560A06051	Pipe	1

3G9560A06151	Pipe	1
A263A12	Fitting	4
A272A12	T fitting	1
3G9560A07531	Pipe assy	1
3G9560A01753	Pipe	1
3G9560A01953	Pipe	1
3G9560A01835A1	EFS Loom part	1
3G9560A02035A1	EFS Loom part	1

Production P/N 3G9560A06631K3 is composed by following items:

P/N	DESCRIPTION	QTY
3G9560A05851	Pipe	1
3G9560A05951	Pipe	1
3G9560A06051	Pipe	1
3G9560A06151	Pipe	1
AW003PB12C	Fitting	4
AW004PB12C	T fitting	1
3G9560A07531A1	Pipe assy	1
3G9560A01753	Pipe	1
3G9560A01953	Pipe	1
3G9560A01835A2	EFS Loom part	1
3G9560A02035A2	EFS Loom part	1

(12) This item can be supplied as the productive P/N 3G9560A06631K4 for those helicopters installing the baggage box.

Production P/N 3G9560A06631K4 is composed by following items:

P/N	DESCRIPTION	QTY
3G9560A05851	Pipe	1
3G9560A05951	Pipe	1
3G9560A06051	Pipe	1
3G9560A06151	Pipe	1
3G9560A09031A1	Pipe	1
AW003PB12C	Fitting	4
AW004PB12C	T fitting	1
3G9560A07531A1	Pipe assy	1
3G9560A01753	Pipe	1
3G9560A01953	Pipe	1
3G9560A01835A2	EFS Loom part	1
3G9560A02035A2	EFS Loom part	1

(13) Item to be procured as local supply.

(14) This item has to be provided only for helicopters equipped with Kit AVCS (3+1) P/N 4G1830F00211.

(15) This item has to be provided only for AW139 helicopters from S/N 31201 to 31399 and from S/N 41201 to S/N 41299.



## **B. SPECIAL TOOLS**

Refer 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.
- 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.

#### **PART I**

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 3, gain access to the area affected by the installation and perform the emergency float DART variant P/N 3G9560P00111 as described in the following procedure:

### NOTE

If deemed necessary for a better installation and avoid interference with other existing equipment, relocation of the clip, support and clamp that hold the C/A is allowed.

- 2.1 In accordance with AMP DM 39-A-20-10-09-00A-920A-A and with reference to Figure 1, install in indicated locations n°4 studs P/N A388A3E08C by means of adhesive EA9309.3NA (C021) and the Pressure Application Fixture (PAF).
  - 2.2 With reference to Figure 1, install the anchor nut P/N A423A3C8 in the indicated location.
  - 2.3 With reference to Figure 1, install n°2 clamps P/N AW001CB08H by means of n°1 spacer P/N NAS43DD3-55N, n°1 washer P/N NAS1149D0332J and n°1 screw P/N NAS1190E3P20AK.
  - 2.4 With reference to Figure 1, install n°2 clamps P/N AW001CB08H by means of n°1 spacer P/N NAS43DD3-55N, n°1 washer P/N NAS1149D0332J and n°1 screw P/N NAS1190E3P20AK.
  - 2.5 With reference to Figure 1, install n°2 clamps P/N AW001CB08H by means of n°1 spacer P/N NAS43DD3-55N, n°1 washer P/N NAS1149D0332J and n°1 screw P/N NAS1190E3P20AK.
  - 2.6 With reference to Figure 1, install n°2 clamps P/N AW001CB08H by means of n°1 washer P/N NAS1149D0332J and n°1 screw P/N NAS1190E3P7AK.
  - 2.7 With reference to Figure 1, install n°2 clamps P/N AW001CB08H by means of n°1 washer P/N NAS1149D0332J and n°1 screw P/N NAS1802-3-9.
  - 2.8 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 1, apply the decals P/N ED300K331 and P/N ED300K330.
  - 2.9 With reference to Figure 2 wiring diagram, disconnect and remove or stow the cable assemblies C2A211 and C2A210 from sectioning connector K41P1, K42P1, E15P1 and E16P1 connectors.
  - 2.10 With reference to Figure 1, lay down emergency floatation C/A P/N 3G9C02A36901 (C2A369) following the existing route unless otherwise indicated on the figures.  
Secure the cables by means of existing hardware and lacing cords P/N 900004953.
  - 2.11 With reference to Figure 3 wiring diagram, perform the electrical connections of C/A C2A369 between sectioning connector K331P1, K330P1 and E135P1 connectors.
3. Perform a pin-to-pin continuity check of all the electrical connections made.
  4. In accordance with weight and balance changes, update the Chart A (see Rotorcraft Flight

Manual, Part II, section 6).

5. Return the helicopter to flight configuration and record for compliance with Part I of this Service Bulletin on the helicopter logbook.
6. Send the attached compliance form to the following mail box:

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

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

## PART II

1. In accordance with 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.

### NOTE

Following step 2 is applicable only to helicopters equipped with pilot cabin liners installation P/N 3G2580A07811.

2. In accordance with AMP DM 39-A-06-41-00-00A-010A-A and with reference to Figures 4 thru 8, gain access to the area affected by the installation and perform the pilots cabin liners variant (fiber) P/N 3G5320P01111 as described in the following procedure:
  - 2.1 In accordance with AMP DM 39-A-25-81-03-00A-520A-A and with reference to Figure 4, remove pilot cover door LH assy P/N 3G5320A06131 and retain existing hardware for later reuse.
  - 2.2 With reference to Figure 7, perform the indicated cut-out on the pilot cover door LH assy previously removed.
  - 2.3 Prepare a compound mixing 100 parts by weight of araldit resin LY5138-2 and 23 parts by weight of hardener HY5173.
  - 2.4 With reference to Figure 8 schematic section G-G, apply around cut out profile n°6 plies of glass dry fabric cloth (C932) soaked with the previously prepared compound.
  - 2.5 With reference to Figure 8 schematic section F-F, apply around cut out profile n°3 plies of glass dry fabric cloth (C932) soaked with the previously prepared compound.
  - 2.6 With reference to Figure 7 detail B and section D-D, rework the foam LD45FR P/N 99999999000020292 and install the so obtained upper rigid foam LH P/N 3G5320P01352 by means of adhesive EA9309.3NA (C021).
  - 2.7 With reference to Figure 7 detail B, install velcro hook SJ3572 by means of adhesion promoter 86A (C198) in the indicated positions.
  - 2.8 With reference to Figure 7, mark upper pilot cover door LH assy so obtained as P/N 3G5320P01331.
  - 2.9 In accordance with AMP DM 39-A-25-81-04-00A-520A-A and with reference to Figure 4, remove pilot cover door RH assy P/N 3G5320A06231 and retain existing hardware for later reuse.
  - 2.10 With reference to Figure 5, perform the indicated cut-out on the pilot cover door RH assy previously removed.

- 2.11 Prepare a compound mixing 100 parts by weight of araldit resin LY5138-2 and 23 parts by weight of hardener HY5173.
- 2.12 With reference to Figure 6 schematic section G-G, apply around cut out profile n°6 plies of glass dry fabric cloth (C932) soaked with the previously prepared compound.
- 2.13 With reference to Figure 6 schematic section F-F, apply around cut out profile n°3 plies of glass dry fabric cloth (C932) soaked with the previously prepared compound.
- 2.14 With reference to Figure 5 detail B and section D-D, rework the foam LD45FR P/N 999999999000020292 and install the so obtained upper rigid foam LH P/N 3G5320P01252 by means of adhesive EA9309.3NA (C021).
- 2.15 With reference to Figure 5 detail B, install velcro hook SJ3572 by means of adhesion promoter 86A (C198) in the indicated positions.
- 2.16 With reference to Figure 5, mark upper pilot cover door RH assy so obtained as P/N 3G5320P01231.

**NOTE**

Velcro pile can be trimmed during installation.

- 2.17 With reference to Figure 4 Detail B, install velcro pile SJ3571 by means of adhesion promoter 86A (C198) in the indicated positions.
- 2.18 With reference to Figure 4 View A-A, countermark the position of screw holes on the lower pilot cover door assy LH P/N 3G5320A17731 and on the upper pilot cover door assy LH P/N 3G5320P01331 according to existing structural provision.
- 2.19 With reference to Figure 4 View A-A, drill holes  $\varnothing$  5.74÷5.87 at previously countermarked positions.
- 2.20 With reference to Figure 4 View A-A, countermark the position of screw holes on the lower pilot cover door assy RH P/N 3G5320A17631 and on the upper pilot cover door assy RH P/N 3G5320P01231 according to existing structural provision.
- 2.21 With reference to Figure 4 View A-A, drill holes  $\varnothing$  5.74÷5.87 at previously countermarked positions.

**NOTE**

Following step 3 is applicable only to helicopters equipped with pilot cabin liners installation plus polycarb P/N 3G2580A07813.

3. In accordance with AMP DM 39-A-06-41-00-00A-010A-A and with reference to Figure 9, gain access to the area affected by the installation and perform the pilots cabin liners variant (polycarb) P/N 3G5320P01112 as described in the following procedure:

- 3.1 With reference to Figure 9, remove and discard pilot cover door assy LH P/N 3G5320L00731, cover LH P/N 3G2580L05151 and screws P/N AN525-10R5.
- 3.2 With reference to Figure 9, remove and discard pilot cover door assy RH P/N 3G5320L00631, cover RH P/N 3G2580L05051 and screws P/N AN525-10R5.
4. With reference to Figures 10 thru 14, perform the kit emergency floats removal P/N 3G9560P01411 as described in the following procedure:
  - 4.1 With reference to Figure 10, remove the MLG aft right fairing P/N 3G5339A01833 or P/N 3G5339A01832 or P/N 3G5339A01831 or P/N 3G5339A05231, the support assy RH P/N 3G5339L00231 and the position light support assy RH P/N 3G2560A02631 and existing hardware.
  - 4.2 With reference to Figure 10, remove the MLG aft left fairing P/N 3G5339A01933 or P/N 3G5339A01932 or P/N 3G5339A01931 or P/N 3G5339A05131, the support assy RH P/N 3G5339L00131 and the position light support assy LH P/N 3G2560A02531 and existing hardware.
  - 4.3 In accordance with AMP DM 39-C-95-61-01-00A-520A-K and with reference to Figure 11, remove the forward left float assembly P/N 3G9560V00131 or P/N 3G9560V01231 or P/N 3G9560V01232 and existing hardware.
  - 4.4 In accordance with AMP DM 39-C-95-61-02-00A-520A-K and with reference to Figure 11, remove the forward right float assembly P/N 3G9560V00231 or P/N 3G9560V01331 or P/N 3G9560V01332 and existing hardware.
  - 4.5 In accordance with AMP DM 39-C-95-61-03-00A-520A-K and with reference to Figure 12, remove the aft left float assembly P/N 3G9560V00331 or P/N 3G9560V00332 or P/N 3G9560V00333 or P/N 3G9560V01431 or P/N 3G9560V01433 or P/N 3G9560V01432 or P/N 3G9560V01434 and existing hardware.
  - 4.6 In accordance with AMP DM 39-C-95-61-04-00A-520A-K and with reference to Figure 12, remove the aft right float assembly P/N 3G9560V00431 or P/N 3G9560V00432 or P/N 3G9560V00433 or P/N 3G9560V01531 or P/N -3G9560V01533 or P/N 3G9560V01532 or P/N 3G9560V01534 and existing hardware.
  - 4.7 With reference to Figure 13, remove the EFS installation P/N 3G9560A00913 or P/N 3G9560A00914 or P/N 3G9560A00915.
  - 4.8 With reference to Figure 14 view E, remove the cap P/N 3G9560A03551 and existing rivets.
  - 4.9 With reference to Figure 14 view H, remove the click bond P/N A366A3E12C.
  - 4.10 With reference to Figure 14 section G-G, remove the click bond P/N A423A3A6. Plug the existing holes with rivets P/N MS20470AD4.

- 4.11 With reference to Figure 14 section J-J, remove the cap P/N 3G9560A03551 and existing rivet.
- 4.12 With reference to Figure 14 view F, remove the cap P/N 3G9560A03551 and existing rivet.
- 4.13 With reference to Figure 14 detail K, remove the cap P/N 3G9560A03551 and existing rivets. Plug the existing holes with rivets P/N MS20470AD4.
5. In accordance with AMP DM 39-A-06-41-00-00A-010A-A and with reference to Figures 15 thru 24, gain access to the area affected by the installation and perform the liferafts structural provision P/N 3G5311A09911 as described in the following procedure:
  - 5.1 With reference to Figure 15 Top View, drill n°3 holes  $\varnothing$  14.25÷14.28 in the indicated positions.
  - 5.2 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 15 Top View, install n°2 inserts P/N NAS1832-3-4 and insert P/N NAS1832-3-3 by means of adhesive EA934NA (C397).
  - 5.3 With reference to Figure 15 Top View, install the support plate P/N 3G3070A12351 by means of n°2 rivets P/N NAS1720C4L2P.
  - 5.4 With reference to Figure 15 Top View, install velcro hook P/N A305A25C1Y1 in the indicated positions.
  - 5.5 With reference to Figure 15 View AV, install n°2 supports P/N AW001CL509-N6 by means of n°2 rivets P/N NAS9301B-4-06.
  - 5.6 With reference to Figure 15 View AV, drill hole  $\varnothing$  11.125÷11.305 in the indicated position.
  - 5.7 With reference to Figure 15 Section BB-BB, install plug P/N A196A437B to the previously drilled hole. Use sealant MC-780 C-2 (C465).
  - 5.8 With reference to Figure 16 View looking inboard LH side, drill hole  $\varnothing$  20 and fill honeycomb with 3 mm of adhesive EA934NA (C397).
  - 5.9 With reference to Figure 16 View looking inboard LH side, drill n°3 holes  $\varnothing$  14.25÷14.28 in the indicated positions.
  - 5.10 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 16 View looking inboard LH side, install n°3 inserts P/N NAS1832C3-5 by means of adhesive EA934NA (C397).
  - 5.11 In accordance with CSRP DM CSRP-A-51-21-01-02A-257A-D and with reference to Figure 16 View looking inboard LH side, paint side panel as indicated.
  - 5.12 Repeat step 5.8 thru step 5.11 for opposite side.
  - 5.13 With reference to Figure 16 View B, drill n°4 holes  $\varnothing$  4.521÷4.648 coordinating with P/N 3G5317A31032 in the indicated positions.



- 5.14 With reference to Figure 16 View B, drill n°4 holes  $\varnothing$  4.521÷4.648 coordinating with P/N 3G5317A30832 in the indicated positions.
- 5.15 With reference to Figure 16 View B, drill hole  $\varnothing$  6.425÷6.325 in the indicated position.
- 5.16 With reference to Figure 16 View B, install anchor nut P/N A900A3E2-03 to the previously drilled hole.
- 5.17 With reference to Figure 16 View B, drill hole  $\varnothing$  14.455÷14.275 in the indicated position.
- 5.18 With reference to Figure 17 View E, drill n°2 holes  $\varnothing$  12.70 in the indicated positions.
- 5.19 With reference to Figure 17 View F, install anchor nut P/N A423A3A8 by means of n°2 rivets P/N MS20426AD4 in the indicated position to the frame 3120.
- 5.20 With reference to Figure 17 View G, drill hole  $\varnothing$  12.70 in the indicated position on the cover P/N 3G5330A37051.
- 5.21 With reference to Figure 17 View K, install the bracket P/N A409A001AR by means of rivets P/N MS20426AD3.
- 5.22 With reference to Figure 17 View J, install the standoff P/N A366A3E16C75 by means of adhesive EA9309.3NA (C021).

**NOTE**

Following step 5.23 is applicable only to helicopters  
NOT equipped with TCAS II Structural Provision  
P/N 3G5310A89911.

- 5.23 With reference to Figure 18 View H, install anchor nut P/N A423A3A8 by means of rivets P/N MS20426AD4 in the indicated position to the frame 3900.
- 5.24 With reference to Figure 17 View L, drill n°4 holes  $\varnothing$  5.16÷5.28 in the indicated positions on the RH longeron assy BL 275.
- 5.25 With reference to Figure 17 View L, install n°4 anchor nuts P/N MS21069L3 by means of n°8 rivets P/N MS20426AD3.
- 5.26 With reference to Figure 18 View M, drill n°2 holes  $\varnothing$  5.16÷5.28 in the indicated positions.
- 5.27 With reference to Figure 18 view M, install n°2 anchor nuts P/N MS21069L3 by means of rivets P/N MS20426AD3.
- 5.28 With reference to Figure 18 View P, drill hole  $\varnothing$  5.16÷5.28 in the indicated positions.
- 5.29 With reference to Figure 18 View P, install anchor nut P/N MS21069L3 by means of rivets P/N MS20426AD3.

- 5.30 With reference to Figure 18 View N, drill hole  $\varnothing$  30 in the indicated position on the right wall P/N 3P5331A29251.
- 5.31 With reference to Figure 18 View N, drill n°2 holes  $\varnothing$  5.16÷5.28 in the indicated positions.
- 5.32 With reference to Figure 18 View N, install n°2 anchor nuts P/N MS21069L3 by means of rivets P/N MS20426AD3.
- 5.33 With reference to Figure 19 Top View, at position n°1, n°3 and n°5 drill n°3 hole  $\varnothing$  14.25÷14.28.
- 5.34 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 19 Top View, install n°3 insert P/N NAS1832-3-4 by means of adhesive EA934NA (C397) to the previously drilled holes.
- 5.35 With reference to Figure 19 Top View, at position n°4 drill hole  $\varnothing$  14.25÷14.28.
- 5.36 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 19 Top View, install insert P/N NAS1832-3-3 by means of adhesive EA934NA (C397) to the previously drilled hole.

**NOTE**

Following step 5.37 and step 5.38 is applicable only to  
helicopters NOT equipped with Vernier Ice Detector  
P/N 3G3080A01112.

- 5.37 With reference to Figure 19 Top View, at position n°2 drill hole  $\varnothing$  14.25÷14.28.
- 5.38 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 19 Top View, install insert P/N NAS1832-3-4 by means of adhesive EA934NA (C397) to the previously drilled hole.

**NOTE**

Following step 5.39 and step 5.40 is applicable only to  
helicopters equipped with Vernier Ice Detector  
P/N 3G3080A01112.

- 5.39 With reference to Figure 19 Detail BB, at position n°6 drill hole  $\varnothing$  14.25÷14.28.
- 5.40 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 19 Detail BB, install insert P/N NAS1832-3-4 by means of adhesive EA934NA (C397) to the previously drilled hole.
- 5.41 With reference to Figure 19 Top View, install the velcro hook P/N A305A25C1Y1 in the indicated positions.
- 5.42 With reference to Figure 19 Top View, install support plate P/N 3G3070A12351 by means of n°2 rivets P/N NAS1720C4L2P.

- 5.43 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 20 View AW and Section AY-AY, install n°4 inserts P/N NAS1836-3-15 by means of adhesive EA934NA (C397).
- 5.44 With reference to Figure 20 View T, drill hole  $\varnothing$  6.325÷6.425 in the indicated position.
- 5.45 With reference to Figure 20 View T, install anchor nut P/N A900A3E2-03 to the previously drilled hole.
- 5.46 With reference to Figure 20 View T, drill hole  $\varnothing$  14.275÷14.455 in the indicated position.
- 5.47 With reference to Figure 20 View T, drill n°4 holes  $\varnothing$  4.521÷4.648 in the indicated positions.
- 5.48 With reference to Figure 21 View V, drill n°2 holes  $\varnothing$  12.70 in the indicated positions.
- 5.49 With reference to Figure 21 View W, install anchor nut P/N A423A3A8 by means of rivets P/N MS20426AD4 in the indicated position to the frame 3120.

**NOTE**

Following step 5.50 is applicable only to helicopters  
NOT equipped with Kit AVCS  
P/N 4G1830F00411/4G1830F00412 or  
P/N 4G1830F00511/4G1830F00512.

- 5.50 With reference to Figure 21 View AA, install anchor nut P/N A423A3A8 by means of rivets P/N MS20426AD4 in the indicated position to the frame 3900.
- 5.51 With reference to Figure 21 View AB, install anchor nut P/N A423A3A8 by means of rivets P/N MS20426AD4 in the indicated position to the frame 4803.
- 5.52 With reference to Figure 21 View AE, drill n°3 holes  $\varnothing$  5.16÷5.28 in the indicated positions.
- 5.53 With reference to Figure 21 View AE, install n°3 anchor nuts P/N MS21069L3 by means of rivets P/N MS20426AD3.
- 5.54 With reference to Figure 22 View AC, drill hole  $\varnothing$  12.70 in the indicated position.
- 5.55 With reference to Figure 22 View AD, drill hole  $\varnothing$  5.16÷5.28 in the indicated position.
- 5.56 With reference to Figure 22 View AD, install anchor nut P/N MS21069L3 by means of rivets P/N MS20426AD3.
- 5.57 With reference to Figure 22 View AF, drill hole  $\varnothing$  30 in the indicated position on the left wall P/N 3P5331A29152.

- 5.58 With reference to Figure 22 View AF, drill n°2 holes Ø 5.16÷5.28 in the indicated positions.
- 5.59 With reference to Figure 22 View AF, install n°2 anchor nuts P/N MS21069L3 by means of rivets P/N MS20426AD3.
- 5.60 With reference to Figure 22 View AG, install bracket P/N A409A001AL by means of P/N MS20426AD4.
- 5.61 With reference to Figure 22 View AJ, drill n°4 holes Ø 5.16÷5.28 in the indicated positions on the LH longeron assy BL-275.
- 5.62 With reference to Figure 22 View AJ, install n°4 anchor nuts P/N MS21069L3 by means of rivets P/N MS20426AD3.
- 5.63 With reference to Figure 23 Section AK-AK, perform the indicated cut out on the FWD lower panel assy and fill honeycomb core all around the cut out with adhesive EA934NA (C397).
- 5.64 With reference to Figure 23 Section AK-AK, perform the indicated reparation by means of glass dry fabric cloth (C932) and adhesive EA 956 AERO (C193).
- 5.65 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 23 View AZ and Section BA-BA, install n°4 inserts P/N NAS1836-3-15 by means of adhesive EA934NA (C397).
- 5.66 With reference to Figure 24 View AW, apply edging adhesive P/N A236A01AB700 to the frame STA 7200.
6. In accordance with AMP DM 39-A-06-41-00-00A-010A-A and with reference to Figures 25 and 26, gain access to the area affected by the installation and perform the venting pipes retromod (DART) P/N 3G2810P00211 as described in the following procedure:
  - 6.1 With reference to Figure 25 Detail A, remove and retain for later reuse n°2 bonding cables P/N MS25083-2886, n°2 bonding clamps P/N AN735D12, n°2 bolts P/N NAS6603-2, n°4 washers P/N NAS1149D0316K and n°2 nuts P/N MS21042L3.
  - 6.2 With reference to Figure 25 Detail A, remove the left venting line pipe P/N 504537-1 and the right venting line pipe P/N 504538-1.
  - 6.3 With reference to Figure 26 Detail A, install the left venting line pipe P/N 3G2810A02731.

**NOTE**

In accordance with AMP DM 39-A-20-10-01-00A-259A-

A, prepare and protect items for electrical bonding.

- 6.4 With reference to Figure 26 Detail A, reinstall bonding cable P/N MS25083-2886, bonding clamp P/N AN735D12, bolt P/N NAS6603-2, n°2 washers P/N NAS1149D0316K and nut P/N MS21042L3.
- 6.5 With reference to Figure 26 Detail A, install the right venting line pipe P/N 3G2810A02831.

**NOTE**

In accordance with AMP DM 39-A-20-10-01-00A-259A-

A, prepare and protect items for electrical bonding.

- 6.6 With reference to Figure 26 Detail A, reinstall bonding cable P/N MS25083-2886, bonding clamp P/N AN735D12, bolt P/N NAS6603-2, n°2 washers P/N NAS1149D0316K and nut P/N MS21042L3.
- 6.7 With reference to Figure 26 Detail B, make sure that right and left venting line pipe edges protrude from grommets.
- 6.8 Perform electrical bonding check of the LH pipe assy P/N 3G2810A02731 and RH pipe assy P/N 3G2810A02831 as described in the following procedure:

**NOTE**

Prior to measurement make sure that calibration of milliohm meter is correct and not expired.

Where possible measurement has to be carried out on clean metallic surfaces, If a measurement has to be carried out on a finished surface it is permitted to perforate the finish by light contact pressure of the probe ends to ensure good electrical contact while limiting damage.

Use duplex probes unless access problems exist and position probes so that "P" (Potential) contacts are within the current path (I.e. the innermost position among the four probe contacts).

- 6.8.1 Measure electrical bonding on the LH and RH vent pipes by placing probe A on pipe and probe B on tanks back bracket.
- 6.8.2 Make sure that measured resistance at each position is less than 10 mΩ. If measured resistance is more than 10 mΩ, improve metallic surface contacts at both ends of the affected bonding cable.

- 6.9 In accordance with AMP DM 39-A-28-11-00-00A-364A-A perform fuel system leakage check.
7. In accordance with AMP DM 39-A-06-41-00-00A-010A-A and with reference to Figures 27 thru 31, gain access to the area affected by the installation and perform the MLG aft fairing DART installation P/N 3G5339A21111 as described in the following procedure:

**NOTE**

Following steps 7.1 thru 7.10 are applicable only to helicopters NOT equipped with fuselage VIP pax hinged door variant P/N 3G5300P00211.

- 7.1 With reference to Figure 28 Section C-C, remove lower rear guide P/N 3P5330A26052 and LH lower rear support P/N 3P5330A26852 from MLG aft left fairing assy P/N 3G5339A01933 (or P/N 3G5339A01932 or P/N 3G5339A01931) and reinstall on the MLG aft left fairing assy P/N 3G5339A19832 by means of n°4 screws MS24694-C50.
- 7.2 With reference to Figure 28 Section C-C, install edging P/N A236A03AB1400 on the profile of the MLG aft left fairing assy P/N 3G5339A19832.
- 7.3 With reference to Figure 28 Section A-A, enlarge existing holes up to Ø 6.35 on MLG aft left fairing assy P/N 3G5339A19832 according to existent anchor nut. Retain MLG aft left fairing assy P/N 3G5339A19832 for later reuse.

**NOTE**

Following steps 7.4 thru 7.6 are applicable only to helicopters NOT equipped with kit TCAS II P/N 4G3450F00211.

- 7.4 With reference to Figure 28 Section C-C, remove lower rear guide and RH lower rear support from MLG aft right fairing assy P/N 3G5339A01833 (or P/N 3G5339A01832 or P/N 3G5339A01831) and reinstall on the MLG aft right fairing assy P/N 3G5339A19932 by means of n°4 screws P/N MS24694-C50.
- 7.5 With reference to Figure 28 Section C-C, install edging P/N A236A03AB1400 on the profile of the MLG aft right fairing assy P/N 3G5339A19932.
- 7.6 With reference to Figure 28 Section A-A, enlarge existing holes up to Ø 6.35 on MLG aft right fairing assy P/N 3G5339A19932 according to existent anchor nut. Retain MLG aft right fairing assy P/N 3G5339A19932 for later reuse.

**NOTE**

Following steps 7.7 thru 7.10 are applicable only to helicopters equipped with kit TCAS II P/N 4G3450F00211.

- 7.7 With reference to Figure 30 View A, install cover P/N 3G2560P01151 to the MLG aft right fairing assy P/N 3G2560P01131 by means of n°13 rivets P/N A299A05TW02.
- 7.8 With reference to Figure 28 Section C-C, remove lower rear guide and RH lower rear support from MLG aft right fairing assy P/N 3G5339A01833 (or P/N 3G5339A01832 or P/N 3G5339A01831) and reinstall on the MLG aft right fairing assy P/N 3G2560P01131 by means of n°4 screws P/N MS24694-C50.
- 7.9 With reference to Figure 28 Section C-C, install edging P/N A236A03AB1400 on the profile of the MLG aft right fairing assy P/N 3G2560P01131.
- 7.10 With reference to Figure 28 Section A-A, enlarge existing holes up to Ø 6.35 on MLG aft right fairing assy P/N 3G2560P01131 according to existent anchor nut. Retain MLG aft right fairing assy P/N 3G2560P01131 for later reuse.

**NOTE**

Following steps 7.11 thru 7.20 are applicable only to helicopters equipped with fuselage VIP pax hinged door variant P/N 3G5300P00211.

- 7.11 With reference to Figure 29 Section E-E, temporarily locate the MLG aft left fairing hinged door assy P/N 3G5339A20931 and countermark anchor nut hole positions of the angle left P/N 3G5306P15357.
- 7.12 With reference to Figure 29 Section E-E, drill n°4 holes Ø 5.74 ÷ 5.87 of the previously marked position on the MLG aft left fairing hinged door assy P/N 3G5339A20931.
- 7.13 With reference to Figure 29 Section D-D, install edging P/N A236A02AB1085 on the profile of the MLG aft left fairing hinged door assy P/N 3G5339A20931. Retain MLG aft left fairing hinged door assy P/N 3G5339A20931 for later reuse.

**NOTE**

Following steps 7.14 thru 7.16 are applicable only to helicopters NOT equipped with kit TCAS II P/N 4G3450F00211.

- 7.14 With reference to Figure 29 Section E-E, temporarily locate the MLG aft right fairing hinged door assy P/N 3G5339A21031 and countermark anchor nut hole positions of the angle right P/N 3G5306P15358.

- 7.15 With reference to Figure 29 Section E-E, drill n°4 holes  $\varnothing$  5.74 ÷ 5.87 of the previously marked position on the MLG aft right fairing hinged door assy P/N 3G5339A21031.
- 7.16 With reference to Figure 29 Section D-D, install edging P/N A236A02AB1085 on the profile of the MLG aft right fairing hinged door assy P/N 3G5339A21031. Retain MLG aft right fairing hinged door assy P/N 3G5339A21031 for later reuse.

**NOTE**

Following steps 7.17 thru 7.20 are applicable only to  
helicopters equipped with kit TCAS II  
P/N 4G3450F00211.

- 7.17 With reference to Figure 31, install cover P/N 3G2560P01151 to the MLG aft right fairing assy P/N 3G2560P01132 by means of n°13 rivets P/N A299A05TW02.
  - 7.18 With reference to Figure 29 Section E-E, temporarily locate the MLG aft right fairing hinged door assy P/N 3G2560P01132 and countermark anchor nut hole positions of the angle right P/N 3G5306P15358.
  - 7.19 With reference to Figure 29 Section E-E, drill n°4 holes  $\varnothing$  5.74 ÷ 5.87 of the previously marked position on the MLG aft right fairing hinged door assy P/N 3G2560P01132.
  - 7.20 With reference to Figure 29 Section D-D, install edging P/N A236A02AB1085 on the profile of the MLG aft right fairing hinged door assy P/N 3G2560P01132. Retain MLG aft right fairing hinged door assy P/N 3G2560P01132 for later reuse.
8. In accordance with AMP DM 39-A-06-41-00-00A-010A-A and with reference to Figures 32 thru 47 and 121, gain access to the area affected by the installation and perform the LH side liferaft cables installation P/N 3G2560A08512 as described in the following procedure:



**NOTE**

If deemed necessary for a better installation and avoid interference with other existing equipment, relocation of the clip, support and clamp that hold the liferaft cables is allowed.

**NOTE**

After the installation of life raft handles, apply a small amount of sealing compound Loctite 242 (C031) on the grain (Refer to Figure 33 View AC).

8.1 In accordance with AMP DM 39-E-25-62-03-00A-720A-K and DM 39-E-25-62-07-00A-921A-K, install following items by means of indicated hardware:

- 3G2560A11131 LH bracket assy;
- 3G2560V01732 pilot handle and cable assy.

**NOTE**

- It is allowed to disassemble and reassemble back-up handle and cable assy P/N 3G2560V02032 for its installation on the helicopter.
- After the installation of life raft handles, apply a small amount of sealing compound Loctite 242 (C031) on the grain (Refer to Figure 38 View H).
- Seal all the external perimeter of the back-up handle and cable assy P/N 3G2560V02032 with a fillet of sealant MC-780 B (C465).

8.2 In accordance with AMP DM 39-E-25-62-05-00A-921A-K, install following items by means of indicated hardware:

- 3G2560V02032 back-up handle and cable assy;
- 3G5317A43533 cover handle assy.

9. In accordance with AMP DM 39-A-06-41-00-00A-010A-A and with reference to Figures 48 thru 59, 120 and 121, gain access to the area affected by the installation and perform the RH side liferaft cables installation P/N 3G2560A08612 as described in the following procedure:

**NOTE**

If deemed necessary for a better installation and avoid interference with other existing equipment, relocation of the clip, support and clamp that hold the liferaft cables is allowed.

**NOTE**

After the installation of life raft handles, apply a small amount of sealing compound Loctite 242 (C031) on the grain (Refer to Figure 49 View AB).

9.1 In accordance with AMP DM 39-E-25-62-04-00A-720A-K and DM 39-E-25-62-08-00A-921A-K, install following items by means of indicated hardware:

- 3G2560A11231 RH bracket assy;
- 3G2560V01732 pilot handle and cable assy.

**NOTE**

- It is allowed to disassemble and reassemble back-up handle and cable assy P/N 3G2560V02032 for its installation on the helicopter.
- After the installation of life raft handles, apply a small amount of sealing compound Loctite 242 (C031) on the grain (Refer to Figure 54 View E).
- Seal all the external perimeter of the back-up handle and cable assy P/N 3G2560V02032 with a fillet of sealant MC-780 B (C465).

9.2 In accordance with AMP DM 39-E-25-62-06-00A-921A-K, install following items by means of indicated hardware:

- 3G2560V02032 back-up handle and cable assy;
- 3G5317A43533 cover handle assy.

10. In accordance with AMP DM 39-A-06-41-00-00A-010A-A and with reference to Figures 60 thru 63, gain access to the area affected by the installation and perform the junction box LH installation P/N 3G2560A10112 as described in the following procedure:

**NOTE**

Grommets have to be cut during the installation.

10.1 With reference to Figure 63 View D, install grommet P/N MS35489-38 as indicated.

- 10.2 With reference to Figure 63 View C, install standoff P/N A366A3E08C75 by means of adhesive EA9309.3NA (C021) and install clamp P/N AS21919WDF06 by means of washer P/N NAS1149D0332K and nut P/N MS21043-3.
- 10.3 With reference to Figure 60 Top View, install inflation system activation cable P/N 3G2560V01852. If necessary fix to previously installed clamp for stowed position.
- 10.4 With reference to Figure 62 Detail E, remove n°2 bolts P/N MS27039-1-08 and n°2 washers P/N NAS1149F0316P.
- 10.5 With reference to Figure 62 Detail E, install n°2 standoffs P/N A366A3E08C75 by means of adhesive EA9309.3NA (C021).
- 10.6 With reference to Figure 62 Detail E, install junction box P/N 3G2560V01451 by means of n°2 bolts P/N MS27039-1-10, n°2 washers P/N NAS1149F0363P, n°4 washers P/N NAS1149F0316P and n°2 nuts P/N MS21043-3.

**NOTE**

Secure connections using adhesive Loctite 270 (C218).

- 10.7 With reference to Figure 62 Isometric View, connect to the previously installed junction box the inflation system activation cable P/N 3G2560V01852, the buck-up handle and cable assy P/N 3G2560V02032 and the pilot handle and cable assy P/N 3G2560V01732 following the procedure indicated on the figure.

**NOTE**

If necessary, compensate by the adhesive the difference between the two floors during the installation of standoffs.

- 10.8 With reference to Figure 61 View F, install n°3 standoffs P/N A388A3E24C75 by means of adhesive EA9309.3NA (C021).
  - 10.9 With reference to Figure 61 Side View and Section G-G, install LH junction box cover assy 3G5317A30632 by means of n°3 screws P/N NAS1190E3P7AK and n°3 washers P/N NAS1149C0332R.
11. In accordance with AMP DM 39-A-06-41-00-00A-010A-A and with reference to Figures 64 thru 67, gain access to the area affected by the installation and perform the junction box RH installation P/N 3G2560A10212 as described in the following procedure:

**NOTE**

Grommets have to be cut during the installation.

- 11.1 With reference to Figure 67 View C, install grommet P/N MS35489-38 as indicated.

- 11.2 With reference to Figure 67 View D, install standoff P/N A366A3E08C75 by means of adhesive EA9309.3NA (C021) and install clamp P/N AS21919WDF06 by means of washer P/N NAS1149D0332K and nut P/N MS21043-3.
- 11.3 With reference to Figure 64 Top View, install inflation system activation cable P/N 3G2560V01852. If necessary fix to previously installed clamp for stowed position.
- 11.4 With reference to Figure 66 Detail E, remove n°2 bolts P/N MS27039-1-08 and n°2 washers P/N NAS1149F0316P.
- 11.5 With reference to Figure 66 Detail E, install n°2 standoffs P/N A366A3E08C75 by means of adhesive EA9309.3NA (C021).
- 11.6 With reference to Figure 66 Detail E, install junction box P/N 3G2560V01451 by means of n°2 bolts P/N MS27039-1-10, n°2 washers P/N NAS1149F0363P, n°4 washers P/N NAS1149F0316P and n°2 nuts P/N MS21043-3.

**NOTE**

Secure connections using adhesive Loctite 270 (C218).

- 11.7 With reference to Figure 66 Isometric View, connect to the previously installed junction box the inflation system activation cable P/N 3G2560V01852, the buck-up handle and cable assy P/N 3G2560V02032 and the pilot handle and cable assy P/N 3G2560V01732 following the procedure indicated on the figure.

**NOTE**

If necessary, compensate by the adhesive the difference between the two floors during the installation of standoffs.

- 11.8 With reference to Figure 65 View F, install n°3 standoffs P/N A388A3E24C75 by means of adhesive EA9309.3NA (C021).
  - 11.9 With reference to Figure 65 Side View and Section G-G, install RH junction box cover assy 3G5317A30732 by means of n°3 screws P/N NAS1190E3P8AK and n°3 washers P/N NAS1149C0332R.
12. In accordance with AMP DM 39-A-06-41-00-00A-010A-A and with reference to Figures 68 thru 73, gain access to the area affected by the installation and perform the LH side life raft inflation system installation P/N 3G2560A08811 as described in the following procedure:
- 12.1 With Figure 72 View D, install the life-rafts bottle second support assy P/N 3G5317A31032 by means of n°4 washers P/N NAS1149FN832P and n°4 screws P/N NAS1802-08-9.

- 12.2 In accordance with AMP DM 39-A-20-00-00-00A-69CA-A, apply slippage marks to previously installed screws.
- 12.3 With Figure 72 View D, install the life-rafts bottle first support assy P/N 3G5317A30832 by means of n°4 washers P/N NAS1149FN832P and n°4 screws P/N NAS1802-08-9.
- 12.4 In accordance with AMP DM 39-A-20-00-00-00A-69CA-A, apply slippage marks to previously installed screws.
- 12.5 With Figure 72 View D, install the angle P/N 3G5317A49151 to the life-rafts bottle first support assy P/N 3G5317A30832 and to life-rafts bottle second support assy P/N 3G5317A31032 by means of n°6 washers P/N NAS1149FN832P and n°6 screws P/N NAS1802-08-9.
- 12.6 In accordance with AMP DM 39-A-20-00-00-00A-69CA-A, apply slippage marks to previously installed screws.

**NOTE**

Do not tighten n°2 clamps during following step 12.7.

- 12.7 With Figure 70 View C, install n°2 clamps P/N MS21920-47 on the LH life-raft reservoir P/N 3G2560V01251 or P/N 3G2560V01252 using sleeve P/N M23053/5-109-0.
- 12.8 With Figure 68 Top view, install the LH life-raft reservoir P/N 3G2560V01251 or P/N 3G2560V01252 by inserting n°2 clamps previously installed to the life-rafts bottle first support assy P/N 3G5317A30832 and to life-rafts bottle second support assy P/N 3G5317A31032.

**NOTE**

After installation of the LH life-raft reservoir P/N 3G2560V01251 or P/N 3G2560V01252, verify:

- the perfect alignment of activation cable with pull rod and shroud axis;
- that the bottle pressure gauge is visible and its position is in the middle of the inspection panel of the sponson.

**NOTE**

Centre the identification label on the bottle to the life-raft bottle supports (Refer to Figure 73, Detail L).

- 12.9 Tighten the clamps, torque up to 2.4 Nm, in order to have the correct and stable attachment of the LH life-raft reservoir to the helicopter structure.

**NOTE**

Grommet must be cut during the installation.

- 12.10 With reference to Figure 70 Section B-B, install the grommet P/N MS35489-14 on the related hole on the FWD lower panel assy.

**NOTE**

Do not install sleeve on the identification label of the flex hose P/N 3G2560L00131.

- 12.11 With reference to Figure 69, install the flex hose P/N 3G2560L00131 and the sleeve P/N M23053/5-109-0 through the hole on the FWD lower panel assy P/N 3P5340A01431.
- 12.12 With reference to Figure 69 and Figure 70 View E, connect the flex hose P/N 3G2560L00131 to the flared fitting of the LH life-raft reservoir.
- 12.13 With reference to Figure 72, install protective bag P/N A195A003 by means of screw P/N NAS1802-3-12.
- 12.14 With reference to Figure 73 View J and View K, install the life raft bottle pressure chart P/N 3G2560V01551 on MLG Aft left fairing assy.
- 12.15 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 73 Detail M, install the decal life raft safety pin P/N 3G2560A12551.
- 12.16 In accordance to AMP DM 39-E-25-62-03-00A-720A-K and with reference to Figure 69 Detail A, Figure 70 View E, install inflation system activation cable P/N 3G2560V01852 to the LH life-raft reservoir P/N 3G2560V01251 or P/N 3G2560V01252 following the procedure indicated on the figure.
13. In accordance with AMP DM 39-A-06-41-00-00A-010A-A and with reference to Figures 74 thru 79, gain access to the area affected by the installation and perform the RH side life raft inflation system installation P/N 3G2560A08911 as described in the following procedure:
- 13.1 With Figure 78 View D, install the life-rafts bottle second support assy P/N 3G5317A31032 by means of n°4 washers P/N NAS1149FN832P and n°4 screws P/N NAS1802-08-9.
- 13.2 In accordance with AMP DM 39-A-20-00-00-00A-69CA-A, apply slippage marks to previously installed screws.
- 13.3 With Figure 78 View D, install the life-rafts bottle first support assy P/N 3G5317A30832 by means of n°4 washers P/N NAS1149FN832P and n°4 screws P/N NAS1802-08-9.
- 13.4 In accordance with AMP DM 39-A-20-00-00-00A-69CA-A, apply slippage marks to previously installed screws.

- 13.5 With Figure 78 View D, install the angle P/N 3G5317A49151 to the life-rafts bottle first support assy P/N 3G5317A30832 and to life-rafts bottle second support assy P/N 3G5317A31032 by means of n°6 washers P/N NAS1149FN832P and n°6 screws P/N NAS1802-08-9.
- 13.6 In accordance with AMP DM 39-A-20-00-00-00A-69CA-A, apply slippage marks to previously installed screws.

**NOTE**

Do not tighten n°2 clamps during following step 13.7.

- 13.7 With Figure 76 View C, install n°2 clamps P/N MS21920-47 on the RH life-raft reservoir P/N 3G2560V01951 or P/N 3G2560V01952 using sleeve P/N M23053/5-109-0.
- 13.8 With Figure 74 Top view, install the RH life-raft reservoir P/N 3G2560V01951 or P/N 3G2560V01952 by inserting n°2 clamps previously installed to the life-rafts bottle first support assy P/N 3G5317A30832 and to life-rafts bottle second support assy P/N 3G5317A31032.

**NOTE**

After installation of the RH life-raft reservoir P/N 3G2560V01951 or P/N 3G2560V01952, verify:

- the perfect alignment of activation cable with pull rod and shroud axis;
- that the bottle pressure gauge is visible and its position is in the middle of the inspection panel of the sponson.

**NOTE**

Centre the identification label on the bottle to the life-raft bottle supports (Refer to Figure 79, Detail L).

- 13.9 Tighten the clamps, torque up to 2.4 Nm, in order to have the correct and stable attachment of the RH life-raft reservoir to the helicopter structure.

**NOTE**

Grommet must be cut during the installation.

- 13.10 With reference to Figure 76 Section B-B, install the grommet P/N MS35489-14 on the related hole on the FWD lower panel assy.

**NOTE**

Do not install sleeve on the identification label of the flex hose P/N 3G2560L00131.

- 13.11 With reference to Figure 75, install the flex hose P/N 3G2560L00131 and the sleeve P/N M23053/5-109-0 through the hole on the FWD lower panel assy.
  - 13.12 With reference to Figure 75 and Figure 76 View E, connect the flex hose P/N 3G2560L00131 to the flared fitting of the RH life-raft reservoir.
  - 13.13 With reference to Figure 78, install protective bag P/N A195A003 by means of screw P/N NAS1802-3-12.
  - 13.14 With reference to Figure 79 View J and View K, install the life raft bottle pressure chart P/N 3G2560V01551 on MLG Aft right fairing assy.
  - 13.15 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 79 Detail M, install the decal life raft safety pin P/N 3G2560A12551.
  - 13.16 In accordance to AMP DM 39-E-25-62-04-00A-720A-K and with reference to Figure 75 Detail A, install inflation system activation cable P/N 3G2560V01852 to the RH life-raft reservoir P/N 3G2560V01951 or P/N 3G2560V01952 following the procedure indicated on the figure.
14. In accordance with AMP DM 39-E-25-62-00-00A-320A-K, perform the liferaft operation test.

**NOTE**

With reference to the following step, refer to standard practices described in AMP DM 39-A-20-40-01-00A-66AA-A and AMP DM 39-A-20-40-00-00A-010A-A to perform the pipe swaging.

15. In accordance with AMP DM 39-A-06-41-00-00A-010A-A and with reference to Figures 80 thru 96, gain access to the area affected by the installation and perform the kit emergency float 15 pax retromod P/N 3G9560P00611 as described in the following procedure:
- 15.1 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 81, install n°4 inserts P/N NAS1832-3-3.
  - 15.2 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 81, install n°4 inserts P/N NAS1832-08-3M.
  - 15.3 With reference to Figure 82 view H and view G, install n°2 caps P/N 3G9560A07951 by means of n°8 rivets P/N NAS9301B-4-02.
  - 15.4 With reference to Figure 24 section J-J, install the anchor nut P/N A423A3A6 by means of n°2 rivets P/N MS20470AD4-7.



- 15.5 With reference to Figure 83 section F-F, install the bracket assy P/N 3G9560A08731 by means of n°4 bolts P/N MS27039-0805 and n°4 washers P/N NAS1149CN832R.
- 15.6 With reference to Figure 82 section E-E, install n°2 caps P/N 3G9560A07951 by means of n°8 rivets P/N NAS9301B-4-02.
- 15.7 With reference to Figure 82 section E-E, plug existing holes by means of rivets P/N NAS9301B-4-01.
- 15.8 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 84 section M-M, install n°3 inserts P/N NAS1832-3-3.

**NOTE**

Perform the following step only if already existing anchor nuts are not already installed in the correct position at BL 66.5 (refer to Figure 84 section K-K).

- 15.9 With reference to Figure 84 section K-K, install n°2 anchor nuts P/N MS21069L3 by means of n°4 rivets P/N MS20426AD3.
- 15.10 With reference to Figure 84 section L-L, install n°1 anchor nut P/N MS21070L3 by means of n°2 rivets P/N MS20426AD3.
- 15.11 With reference to Figure 85, install n°1 clamp P/N AS21919WCG12 by means of n°2 washers P/N NAS1149D0332J, n°1 bolt P/N NAS1802-3-8, n°1 nut P/N MS21043-3.
- 15.12 With reference to Figure 85, install n°1 clamp P/N AS21919WCG12 by means of n°1 screws P/N MS27039-1-07, n°1 washers P/N NAS1149D0332J.
- 15.13 With reference to Figure 85, install n°1 bonding cable P/N A601A3B12 by means of n°1 nut P/N MS21043-3, n°1 screws P/N MS27039-1-07 and n°1 washers P/N NAS1149D0332J.
- 15.14 With reference to Figure 85, install n°1 bonding cable P/N A601A3B08 by means of n°1 nut P/N MS21043-3, n°1 screws P/N MS27039-1-07, n°1 washers P/N NAS1149D0332J.
- 15.15 With reference to Figure 85, install n°1 clamp P/N AS21919WCG12 by means of n°1 screws P/N MS27039-1-07, n°1 washers P/N NAS1149D0332J.
- 15.16 With reference to Figure 85, install n°1 clamp P/N AS21919WCG12 by means of n°1 bolt P/N NAS1802-3-15, n°1 spacer P/N NAS43DD3-22N, n°1 washer P/N NAS1149D0332J.
- 15.17 With reference to Figure 85, install n°1 stud P/N A366A3E28C75 by means of EA9309.3NA adhesive.

- 15.18 With reference to Figure 85, install n°1 clamp P/N AS21919WCG12 by means of n°1 nut P/N MS21043-3, n°1 spacer P/N NAS43DD3-75N, n°1 washer P/N NAS1149D0332J.
- 15.19 With reference to Figure 85, install n°1 clamp P/N AS21919WCG12 by means of n°1 bolt P/N NAS1802-3-25, n°1 spacer P/N NAS43DD3-68N, n°1 washer P/N NAS1149D0332J.
- 15.20 With reference to Figure 86 detail K, install n°1 clamp P/N AS21919WCG12 by means of n°1 bolt P/N NAS1802-3-12, n°1 spacer P/N NAS43DD3-22N, n°1 washer P/N NAS1149D0332J.
- 15.21 With reference to Figure 86 section L-L, install n°1 clamp P/N AS21919WCG12 by means of n°2 bolts P/N NAS1802-3-8, n°1 nut P/N MS21043-3, n°3 washers P/N NAS1149D0332J, n°1 bracket P/N MS9592-018.
- 15.22 With reference to Figure 86 section L-L, install n°1 clamp P/N AS21919WCG12 by means of n°2 bolts P/N NAS1802-3-8, n°1 nut P/N MS21043-3, n°3 washers P/N NAS1149D0332J, n°1 bracket P/N MS9592-018.
- 15.23 With reference to Figure 86 detail P, install n°1 clamp P/N AS21919WCG12 by means of n°1 washer P/N NAS1149D0332J, n°1 spacer P/N NAS43DD3-30N and n°1 bolt P/N NAS1802-3-17.
- 15.24 With reference to Figure 86 section M-M, install n°1 bracket angle P/N MS9592-008 by means of n°1 bolt P/N NAS1802-3-7, n°3 washers P/N NAS1149D0332J, n°1 clamp P/N AS21919WCG12, n°1 bolt P/N NAS1802-3-8, n°1 nut P/N MS21043-3.
- 15.25 With reference to Figure 86 section N-N, install n°1 clamp P/N AS21919WCG12 by means of n°1 washer P/N NAS1149D0332J, n°1 spacer P/N NAS43DD3-60N, n°1 bolt P/N NAS1802-3-22.

**NOTE**

In case of insufficient clearance between the pipes belonging to P/N 3G9560A06631 and the adjacent cable looms (ref. Fig. 87), it is allowed to adapt the cable looms routing and the related fixing hardware, in accordance with AW139 IETP Electrical Standard Practice (ATA Chapter 20-10) and CSRP-A-CSR-00-X.

- 15.26 With reference to Figure 87, complete the installation of EFS loom assy P/N 3G9560A06631 by means of indicated hardware.

- 15.27 With reference to Figures 87 and 88, install n°1 fitting 4 way P/N 3G9560A08851 by means of indicated hardware.
- 15.28 With reference to Figure 87, install the flex hose P/N 3G9560L00231 by means of indicated hardware.
- 15.29 With reference to Figure 87, install the flex hose P/N 3G9560L00132 by means of indicated hardware.
- 15.30 With reference to Figure 87, install the flex hose P/N 3G9560L00332 by means of indicated hardware.
- 15.31 With reference to Figure 90, install the flexible hose P/N 3G9560L00531 by means of indicated hardware.
- 15.32 With reference to Figure 90, install the flexible hose P/N 3G9560L00431 by means of indicated hardware.
- 15.33 In accordance with AMP DM 39-C-95-61-00-00A-364A-K, perform the inflation pipe leak check of the emergency flotation system.

#### **NOTE**

If necessary, it is allowed to use:

- longer screws P/N A428A3C22 instead of shorter screws P/N A428A3C16 (Ref. Figure 89 Section AF-AF);
- longer screws P/N A428A3C12 instead of shorter screws P/N A428A3C15 (Ref. Figure 90 View AE).

- 15.34 In accordance with AMP DM 39-C-95-61-01-00A-720A-K and with reference to Figures 89 and 90, install the FWD float left assy P/N 3G9560V04131 by means of indicated hardware.

#### **NOTE**

If necessary, it is allowed to use:

- longer screws P/N A428A3C22 instead of shorter screws P/N A428A3C16 (Ref. Figure 89 Section AF-AF);
- longer screws P/N A428A3C12 instead of shorter screws P/N A428A3C15 (Ref. Figure 90 View AE).

15.35 In accordance with AMP DM 39-C-95-61-02-00A-720A-K and with reference to Figures 89 and 90, install the FWD float right assy P/N 3G9560V04231 by means of indicated hardware.

**NOTE**

Following steps 15.36 thru 15.39 are applicable only when floats are removed.

15.36 In accordance with AMP DM 39-C-95-61-01-00A-520A-K and with reference to Figure 91, remove the FWD float left assy P/N 3G9560V04131 by means of indicated hardware.

15.37 With reference to Figure 91, install the left skin assy P/N 3P5332A00531 by means of indicated hardware.

15.38 In accordance with AMP DM 39-C-95-61-02-00A-520A-K and with reference to Figure 91, remove the FWD float right assy P/N 3G9560V04231 by means of indicated hardware.

15.39 With reference to Figure 91, install the right skin assy P/N 3P5332A00631 by means of indicated hardware.

**NOTE**

To avoid interference between the spar and the the aft left float assembly P/N 3G9560V06231 during its removal and installation, protect the spar with anti-chafing tape P/N HTR3000FR-150.

**NOTE**

If necessary, it is allowed to use (Ref. Figure 92):

- longer screws P/N A428A3C14 instead of shorter screws P/N A428A3C12 at corners;
- longer screws P/N A428A3C12 instead of shorter screws P/N A428A3C11 in all other positions on float perimeter.

15.40 In accordance with AMP DM 39-C-95-61-03-00A-720A-K and with reference to Figure 80 and Figures 92 thru 95, install the aft left float assembly P/N 3G9560V06231 by means of indicated hardware.

### NOTE

To prevent any possible chafing on the C/A during the removal and installation of the aft right float assembly P/N 3G9560V04431, protect with nomex self-wrap braid P/N EN6049-006-32-5 and use lacing and tying tape to firmly tie down the sleeve on the C/A.

### NOTE

If necessary, it is allowed to use (Ref. Figure 92):

- longer screws P/N A428A3C14 instead of shorter screws P/N A428A3C12 at corners;
- longer screws P/N A428A3C12 instead of shorter screws P/N A428A3C11 in all other positions on float perimeter.

- 15.41 In accordance with AMP DM 39-C-95-61-04-00A-720A-K and with reference to Figure 80 and Figures 92 thru 95, install the aft right float assembly P/N 3G9560V04431 by means of indicated hardware.

### NOTE

Following steps 15.42 thru 15.45 are applicable only when floats are removed.

- 15.42 In accordance with AMP DM 39-C-95-61-03-00A-520A-K and with reference to Figure 96, remove the aft left float assembly P/N 3G9560V06231 and indicated hardware.
- 15.43 In accordance with AMP DM 39-C-95-61-04-00A-520A-K and with reference to Figure 96, remove the aft right float assembly P/N 3G9560V04431 and indicated hardware.
- 15.44 With reference to Figure 96, install the lower panel P/N 3P5340A01531 by means of indicated hardware.
- 15.45 With reference to Figure 96, install the lower panel P/N 3P5340A01631 by means of indicated hardware.
16. In accordance with AMP DM 39-C-95-61-00-00A-320A-K, perform the operational test of the emergency flotation system.

**NOTE**

Following steps 17 and 18 are applicable only to helicopters equipped with pilot cabin liners installation P/N 3G2580A07811.

17. With reference to Figure 4, install lower pilot cover door assy LH P/N 3G5320A17731 and upper pilot cover door assy LH P/N 3G5320P01331 by means of removed hardware.
18. With reference to Figure 4, install lower pilot cover door assy RH P/N 3G5320A17631 and upper pilot cover door assy RH P/N 3G5320P01231 by means of removed hardware.

**NOTE**

Following steps 19 and 20 are applicable only to helicopters equipped with pilot cabin liners installation plus polycarbonate P/N 3G2580A07813.

19. With reference to Figure 9, install lower pilot cover door LH P/N 3G5320L03931 and upper pilot cover door LH P/N 3G5320L03731.
20. With reference to Figure 9, install lower pilot cover door RH P/N 3G5320L04031 and upper pilot cover door RH P/N 3G5320L03831.
21. With reference to Figure 27 and 29, perform the installation of DART MLG aft fairing assemblies as described in the following procedure:

**NOTE**

Following steps 21.1 thru 21.3 are applicable only to helicopters NOT equipped with fuselage VIP pax hinged door variant P/N 3G5300P00211.

- 21.1 With reference to Figure 27, install MLG aft left fairing assy P/N 3G5339A19832 by means of previously removed hardware.

**NOTE**

Following step 21.2 is applicable only to helicopters NOT equipped with kit TCAS II P/N 4G3450F00211.

- 21.2 With reference to Figure 27 Top View, install MLG aft right fairing assy P/N 3G5339A19932 by means of previously removed hardware.

**NOTE**

Following step 21.3 is applicable only to helicopters equipped with kit TCAS II P/N 4G3450F00211.

- 21.3 With reference to Figure 27 Top View, install MLG aft right fairing assy P/N 3G2560P01131 by means of previously removed hardware.

**NOTE**

Following steps 21.4 thru 21.6 are applicable only to helicopters equipped with fuselage VIP pax hinged door variant P/N 3G5300P00211.

- 21.4 With reference to Figure 29, install MLG aft left fairing hinged door assy P/N 3G5339A20931 by means of previously removed hardware.

**NOTE**

Following step 21.5 is applicable only to helicopters NOT equipped with kit TCAS II P/N 4G3450F00211.

- 21.5 With reference to Figure 29, install MLG aft right fairing hinged door assy P/N 3G5339A21031 by means of previously removed hardware.

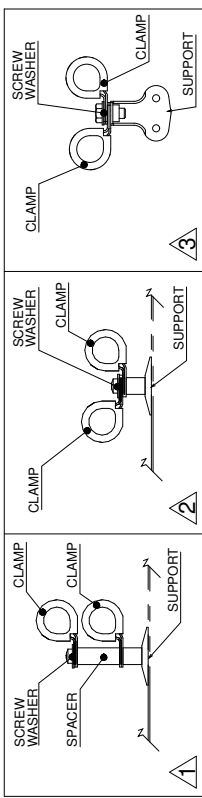
**NOTE**

Following step 21.6 is applicable only to helicopters equipped with kit TCAS II P/N 4G3450F00211.

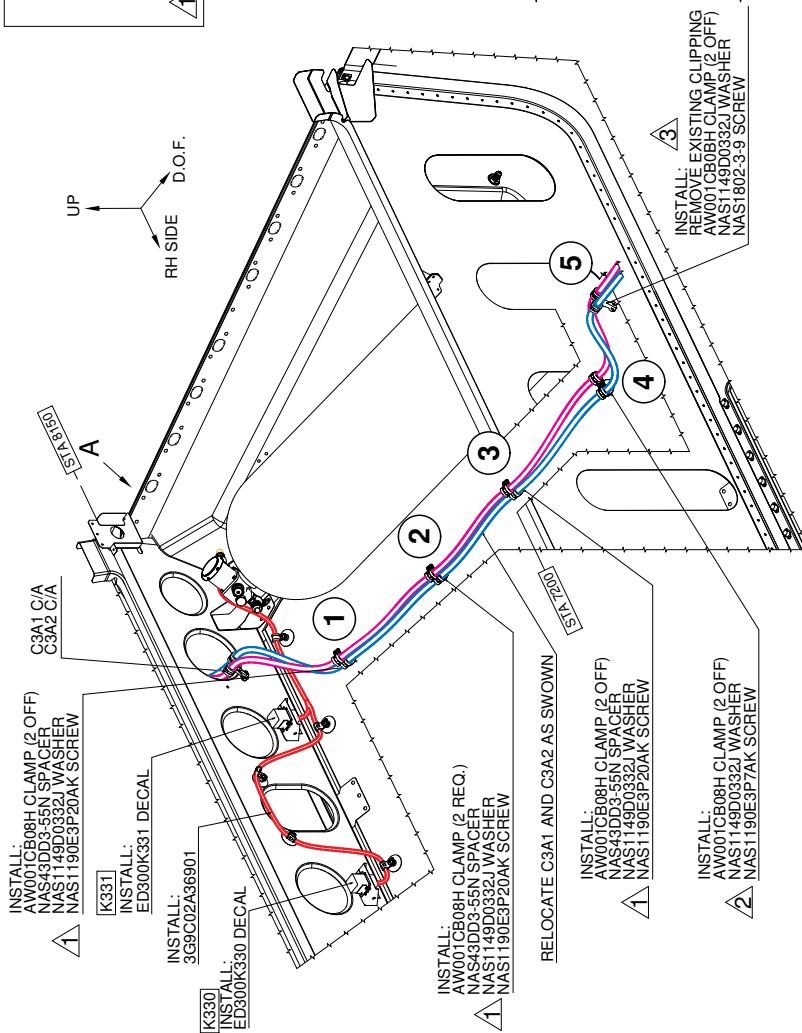
- 21.6 With reference to Figure 29, install MLG aft right fairing hinged door assy P/N 3G2560P01132 by means of previously removed hardware.
22. In accordance with AMP DM 39-A-06-41-00-00A-010A-A and with reference to Figures 97 and 98, gain access to the area affected by the installation and perform the Life raft label installation P/N 3G1130A08611 as described in the following procedure:
- 22.1 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 97 Section A-A, install n°2 decals P/N 3G1130A08551 on the helicopter cabin liners (cabin left side).
- 22.2 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 98 Section B-B, install n°2 decals P/N 3G1130A08451 on the helicopter cabin liners (cabin right side).
23. In accordance with weight and balance changes, update the Chart A (see Rotorcraft Flight Manual, Part II, section 6).
24. Return the helicopter to flight configuration and record for compliance with Part II of this Service Bulletin on the helicopter logbook.
25. Send the attached compliance form to the following mail box:

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

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

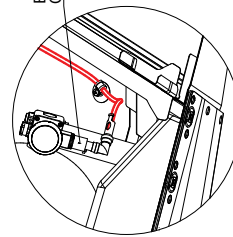


**3G9560P00111**  
**EMERGENCY FLOAT**  
**DART VARIANT**



**VIEW LOOKING REAR ZONE**  
**FROM STA 7200 TO STA 8150**  
STRUCTURES AND SYSTEMS ARE PARTIALLY  
OMITTED FOR BETTER CLARITY PURPOSE

E135P1 CONNECTOR  
C2A368 EMERGENCY FLOAT DART VARIANT C/A



**VIEW A**  
STRUCTURES AND SYSTEMS ARE PARTIALLY  
OMITTED FOR BETTER CLARITY PURPOSE

LOCATION NUMBER	PART. NUMBER	STA	BL	WL
1	A388A3E08C	8010	-245	1329
2	A388A3E08C	7784	-265	1246
3	A388A3E08C	7586	-307	1172
4	A388A3E08C	7352	-357	1086
5	A423A3C8	7200	-429	1129

C2A369  
EMERGENCY FLOAT DART VARIANT C/A

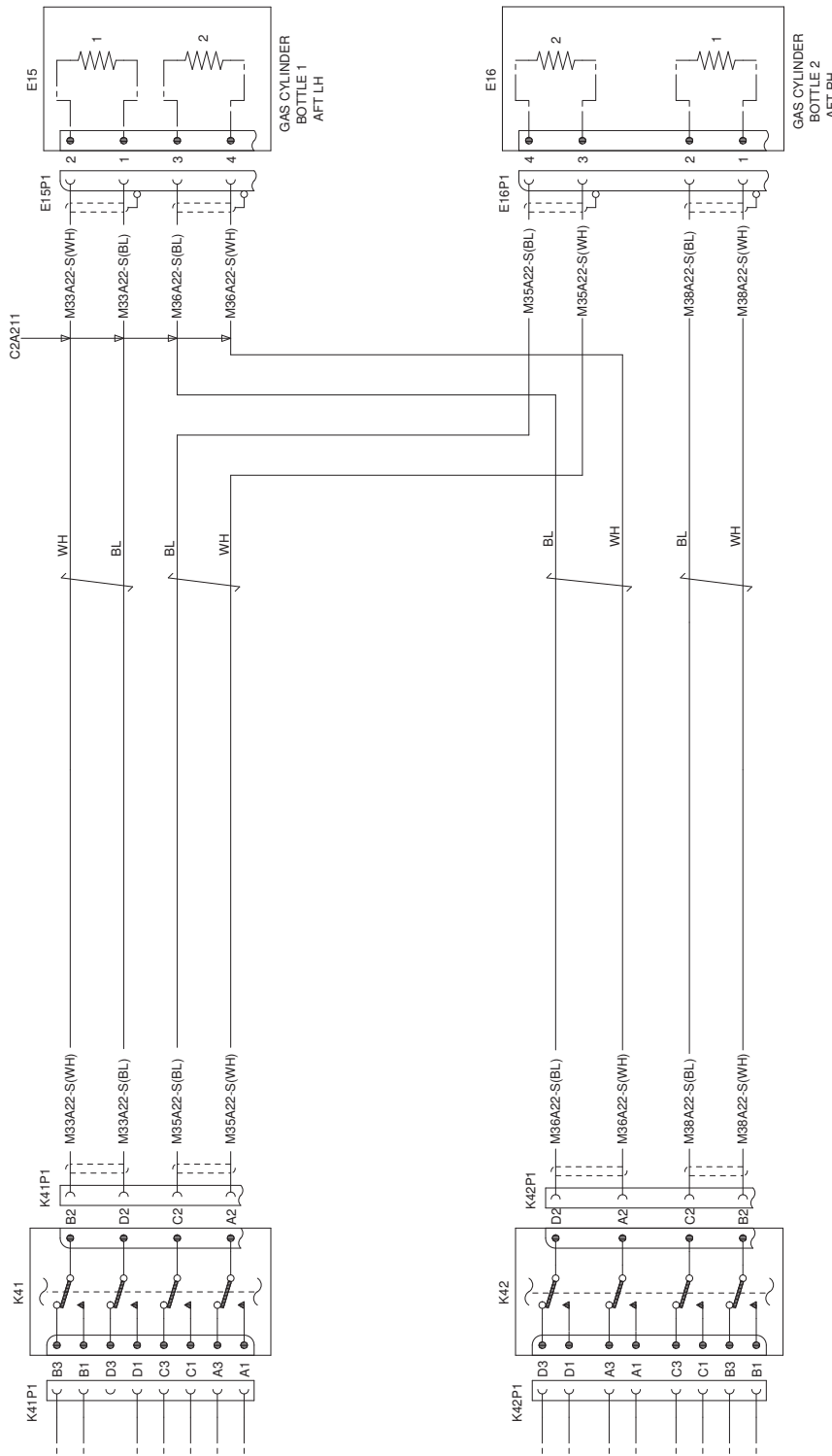
**Figure 1**



REAR AVIONIC BAY

**WAS**

ALL CONNECTIONS SHALL BE REMOVED, REUSED OR STOWED ON BOTH SIDES IN ACCORDANCE WITH THE APPLICABLE INSTALLATION DRAWING INSTRUCTIONS



3G9560W00411  
**WIRING DIAGRAM EMERGENCY FLOW DART VARIANT**  
SHEET 1

FUNCTIONAL NOTES  
ALL CABLES ARE IN LOOM C2A210 UNLESS SPECIFIED  
ALL CABLES ARE OF TYPE A561742 22 UNLESS SPECIFIED

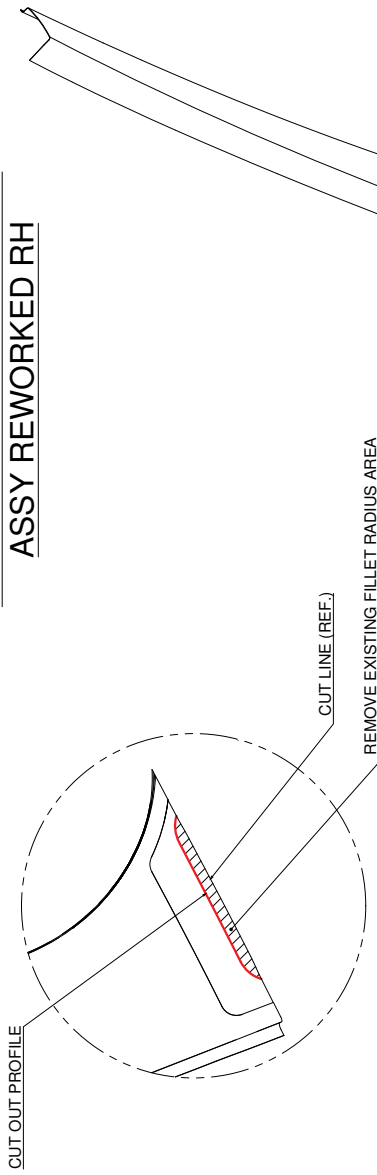
Figure 2





**3G5320P01231  
UPPER PILOT COVER DOOR  
ASSY REWORKED RH**

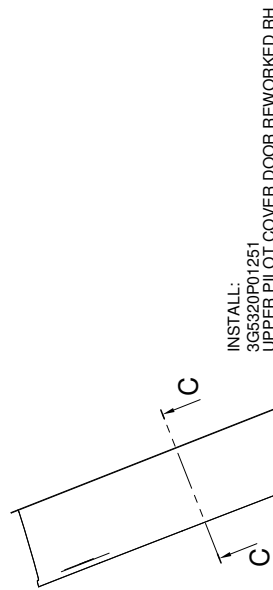
**WAS**



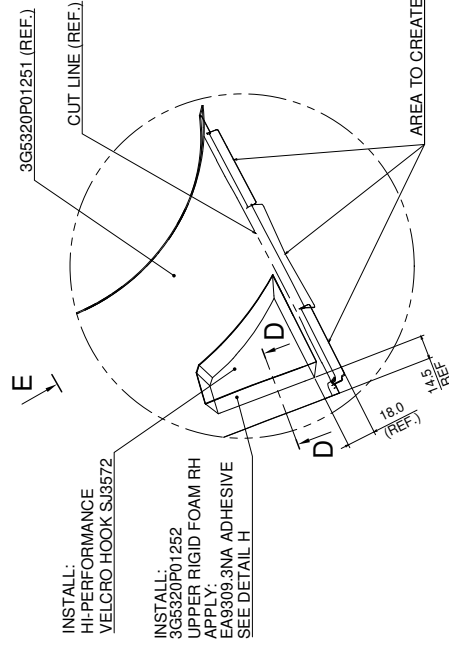
**DETAIL A**

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**SECTION C-C**



**BECOME**

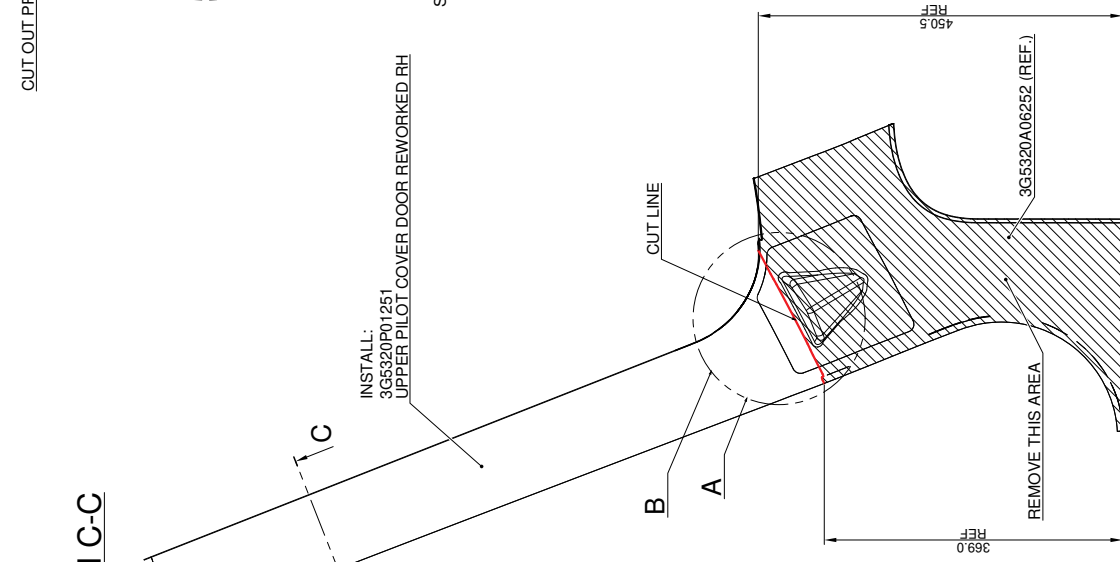
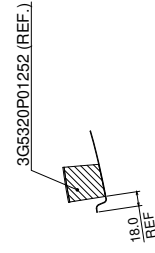


**DETAIL B**

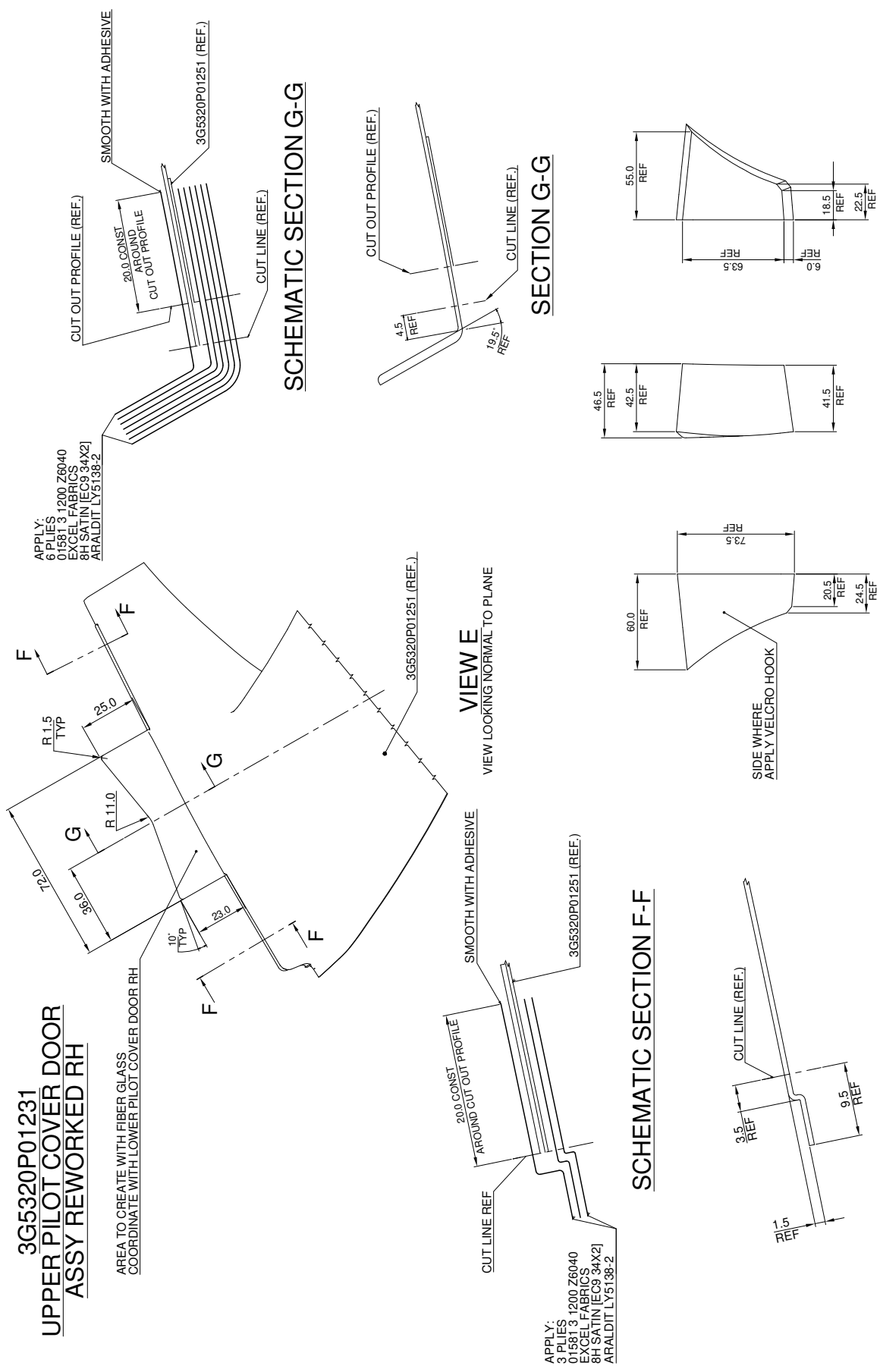
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

**SECTION D-D**

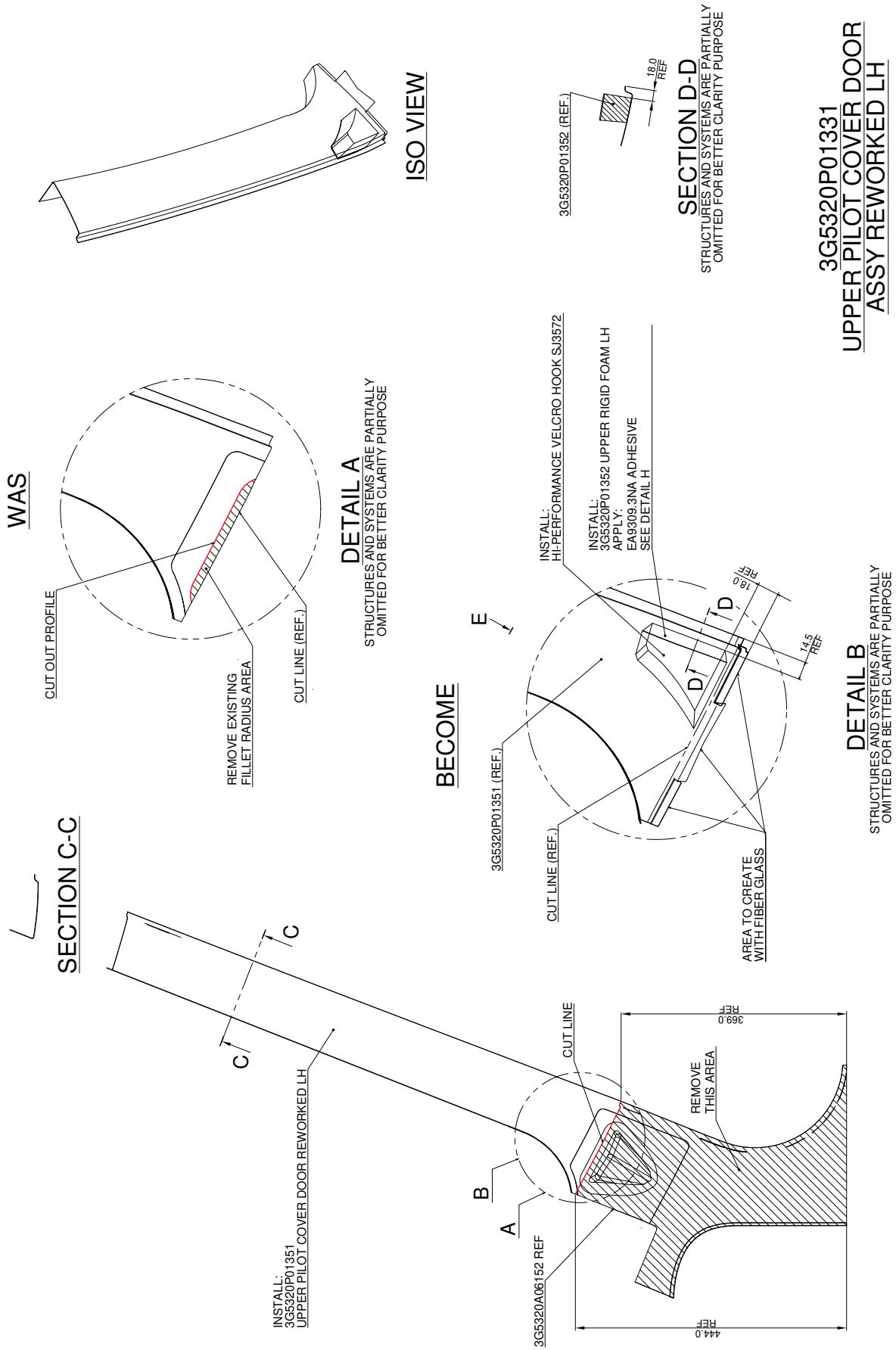
**ISO VIEW**



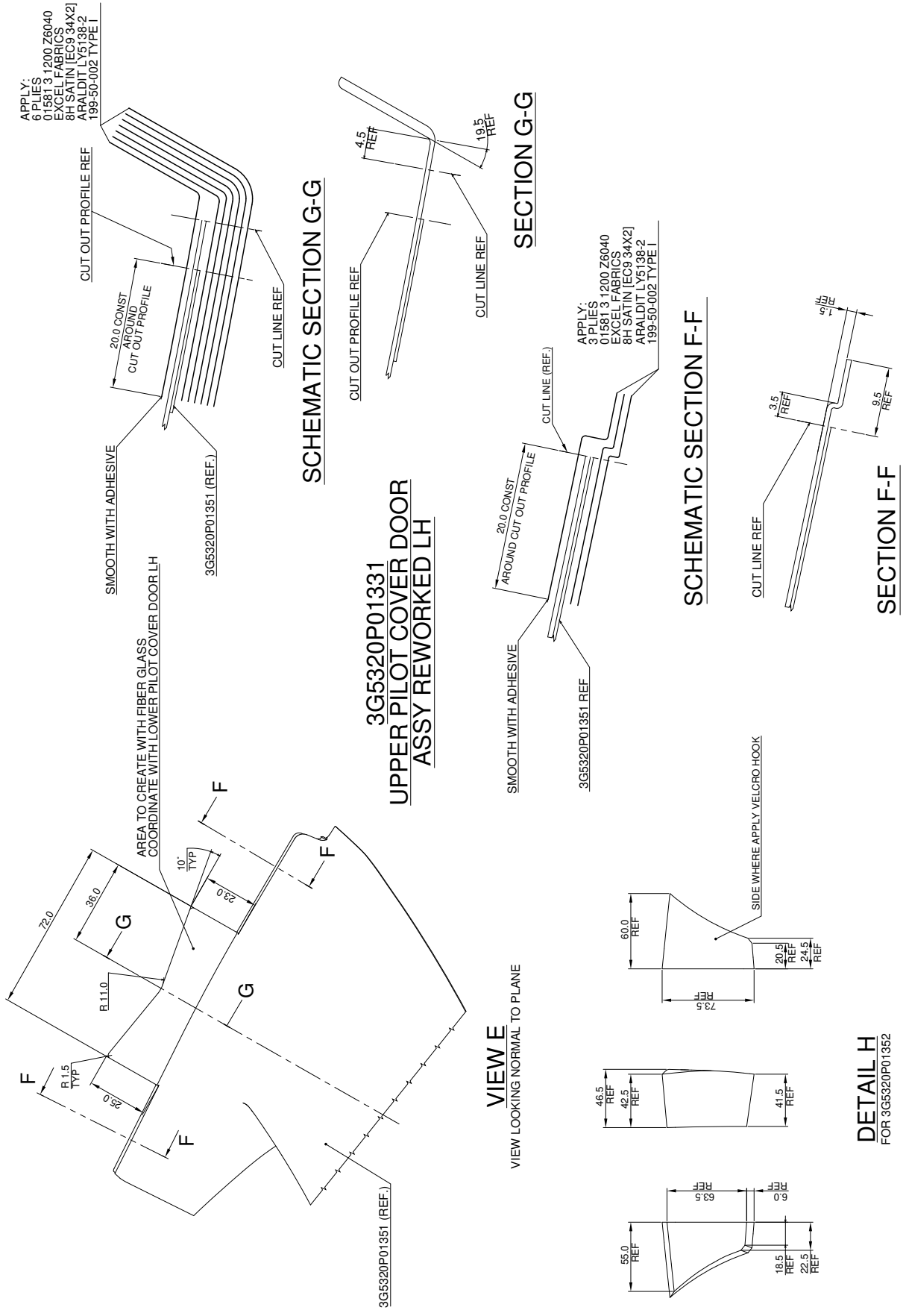
**Figure 5**



**Figure 6**



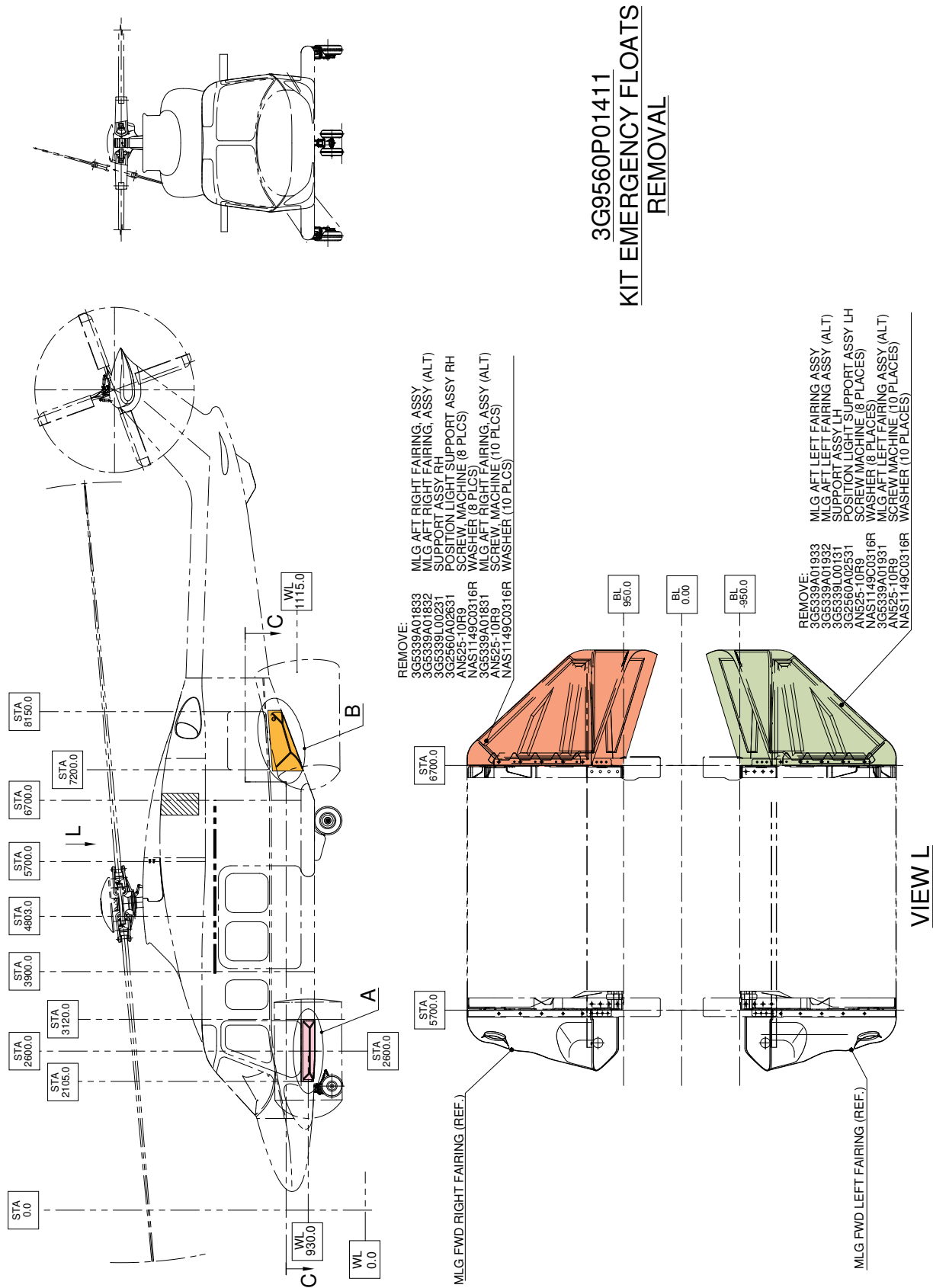
**Figure 7**



**Figure 8**







**3G9560P01411**  
**KIT EMERGENCY FLOATS**  
**REMOVAL**

**Figure 10**

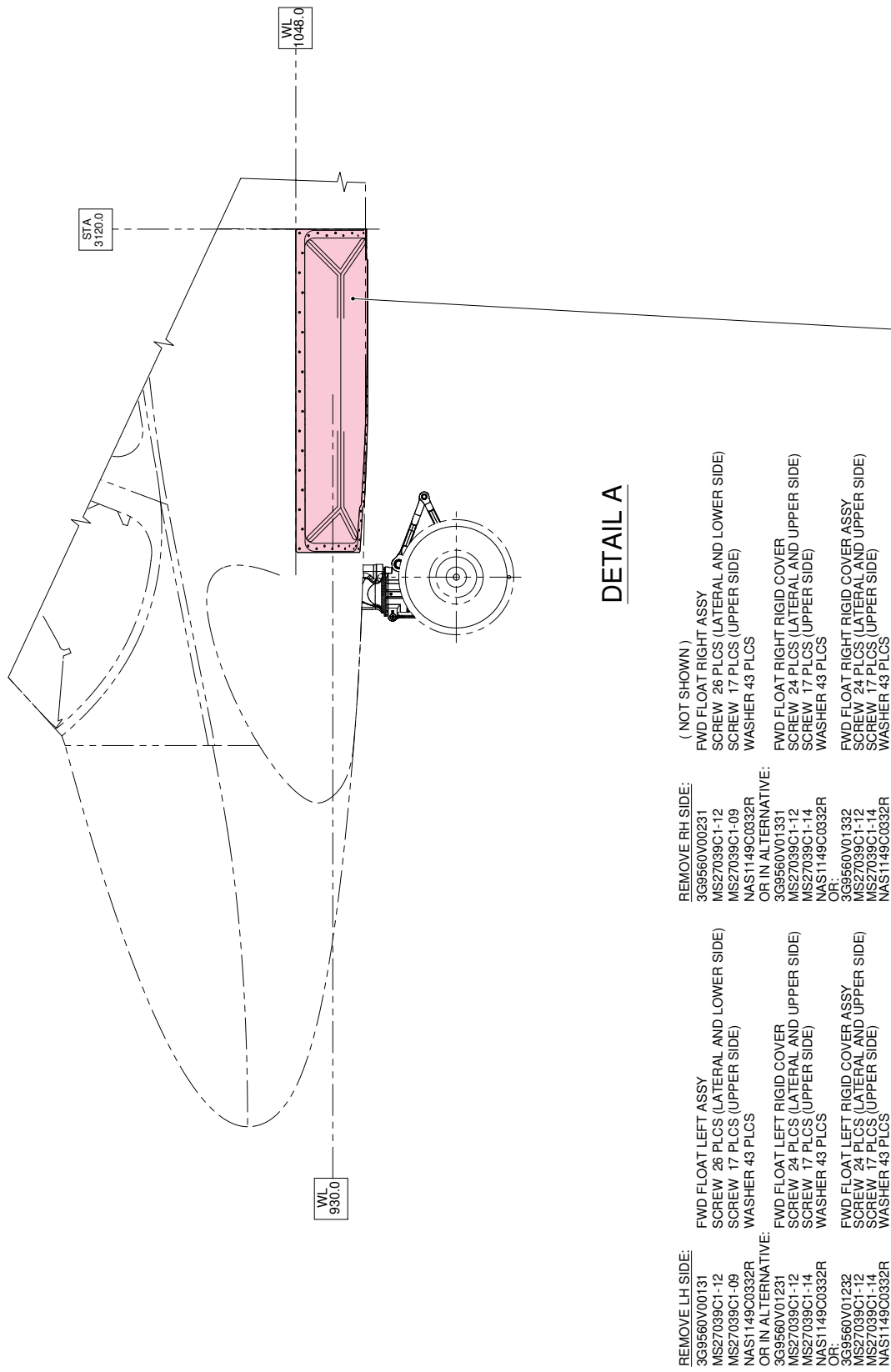
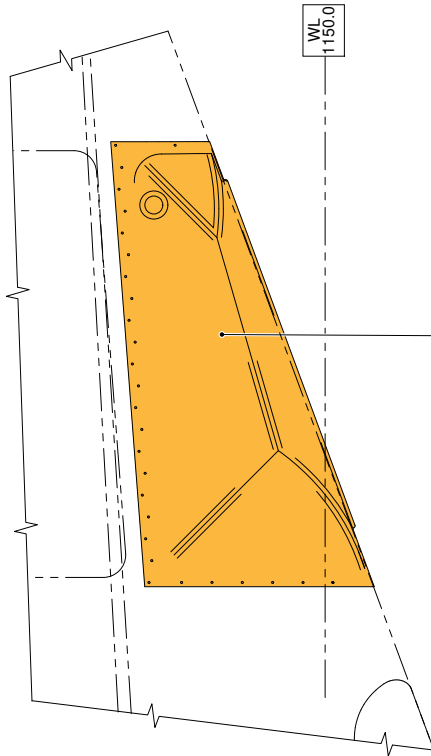
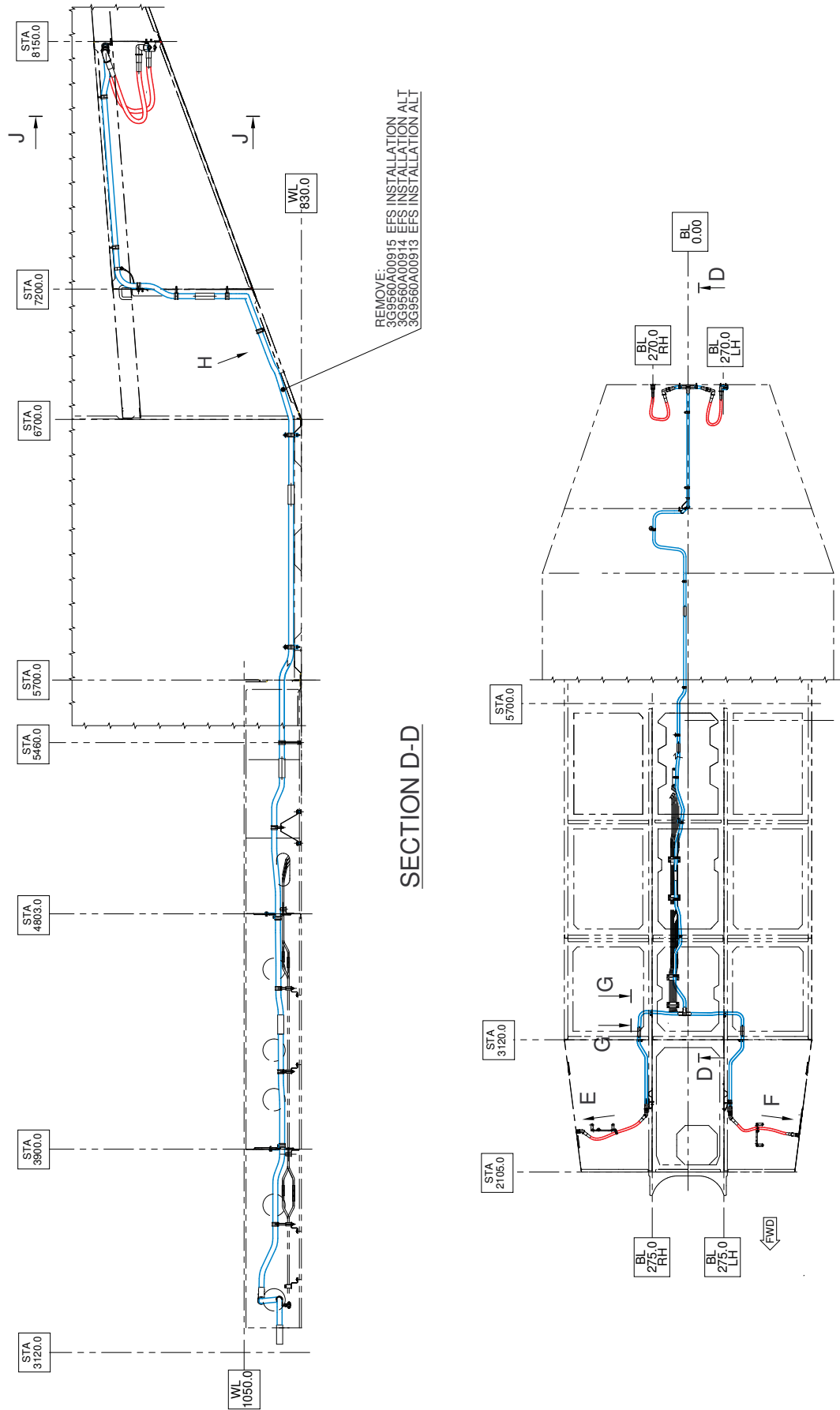


Figure 11



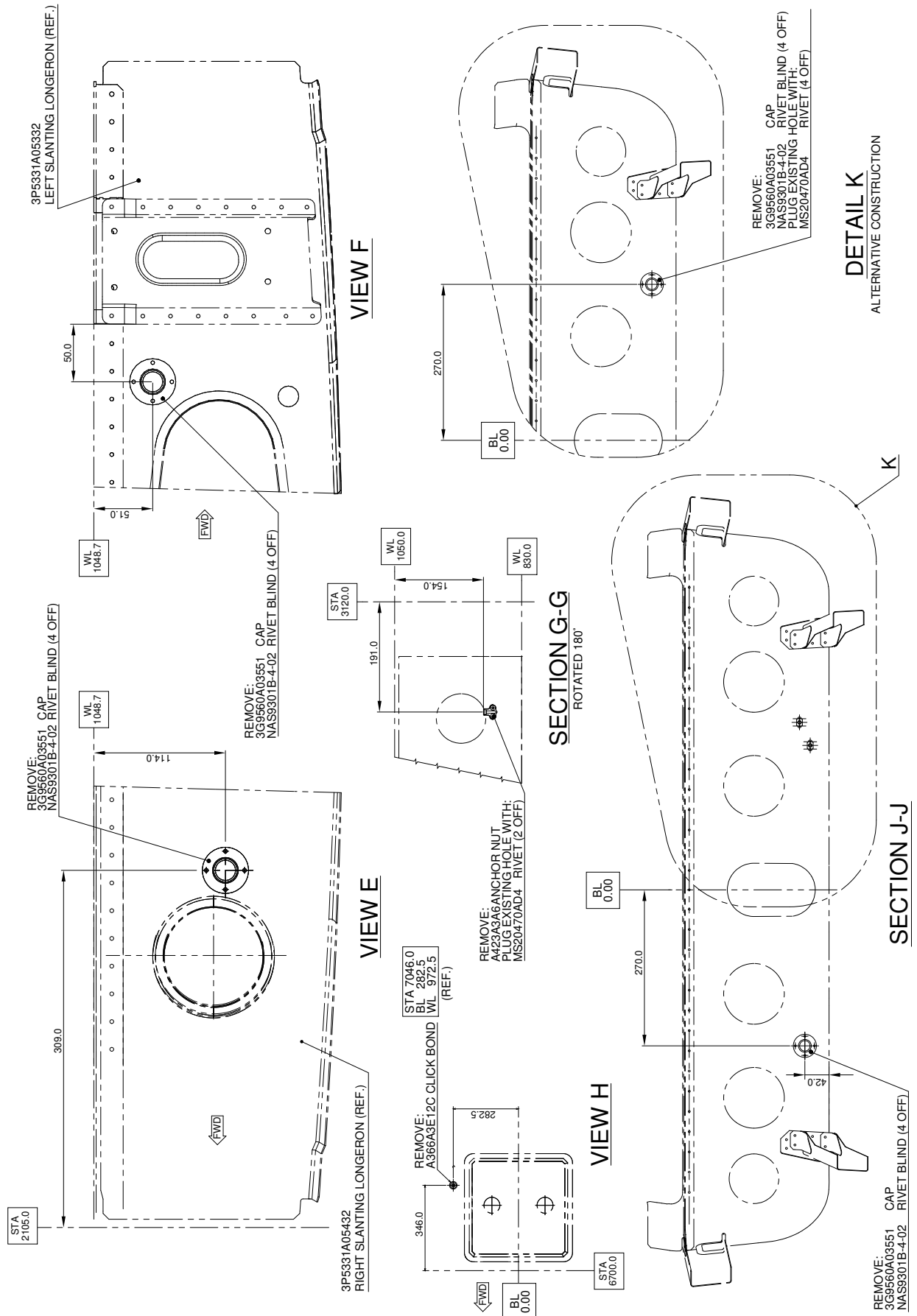
**DETAIL B**

REMOVE LH SIDE:	REMOVE RH SIDE: ( NOT SHOWN )
3G9560V00331 AFT FLOAT LEFT ASSY	3G9560V00431 AFT FLOAT RIGHT ASSY
MS27039C1-12 SCREW 36 PLCS (LATERAL AND LOWER SIDE)	MS27039C1-12 SCREW 36 PLCS (LATERAL AND LOWER SIDE)
MS27039C1-09 SCREW 21 PLCS (UPPER SIDE)	MS27039C1-09 SCREW 21 PLCS (UPPER SIDE)
NAS1149C0332R WASHER 57 PLCS	NAS1149C0332R WASHER 57 PLCS
OR IN ALTERNATIVE:	OR IN ALTERNATIVE:
3G9560V00332 AFT FLOAT LEFT SOFT COVER SMA ASSY	3G9560V00432 AFT FLOAT RIGHT SOFT COVER SMA ASSY
MS27039C1-12 SCREW 36 PLCS (LATERAL AND LOWER SIDE)	MS27039C1-12 SCREW 36 PLCS (LATERAL AND LOWER SIDE)
MS27039C1-09 SCREW 21 PLCS (UPPER SIDE)	MS27039C1-09 SCREW 21 PLCS (UPPER SIDE)
NAS1149C0332R WASHER 57 PLCS	NAS1149C0332R WASHER 57 PLCS
OR:	OR:
3G9560V00333 AFT FLOAT LEFT SOFT COVER THERMOMANOMETER ASSY	3G9560V00433 AFT FLOAT RIGHT SOFT COVER THERMOMANOMETER ASSY
MS27039C1-12 SCREW 36 PLCS (LATERAL AND LOWER SIDE)	MS27039C1-12 SCREW 36 PLCS (LATERAL AND LOWER SIDE)
MS27039C1-09 SCREW 21 PLCS (UPPER SIDE)	MS27039C1-09 SCREW 21 PLCS (UPPER SIDE)
NAS1149C0332R WASHER 57 PLCS	NAS1149C0332R WASHER 57 PLCS
OR:	OR:
3G9560V01431 AFT FLOAT LEFT RIGID COVER PYROT ASSY	3G9560V01531 AFT FLOAT RIGHT RIGID COVER PYROT ASSY
MS27039C1-12 SCREW 35 PLCS (LATERAL AND UPPER SIDE)	MS27039C1-12 SCREW 35 PLCS (LATERAL AND UPPER SIDE)
MS27039C1-14 SCREW 22 PLCS (LOWER SIDE)	MS27039C1-14 SCREW 22 PLCS (LOWER SIDE)
NAS1149C0332R WASHER 57 PLCS	NAS1149C0332R WASHER 57 PLCS
OR:	OR:
3G9560V01433 AFT FLOAT LEFT RIGID COVER PYROT ASSY	3G9560V01533 AFT FLOAT RIGHT RIGID COVER PYROT ASSY
MS27039C1-12 SCREW 35 PLCS (LATERAL AND UPPER SIDE)	MS27039C1-12 SCREW 35 PLCS (LATERAL AND UPPER SIDE)
MS27039C1-14 SCREW 22 PLCS (LOWER SIDE)	MS27039C1-14 SCREW 22 PLCS (LOWER SIDE)
NAS1149C0332R WASHER 57 PLCS	NAS1149C0332R WASHER 57 PLCS
OR:	OR:
3G9560V01432 AFT FLOAT LEFT RIGID COVER SMA ASSY	3G9560V01532 AFT FLOAT RIGHT RIGID COVER SMA ASSY
MS27039C1-12 SCREW 35 PLCS (LATERAL AND UPPER SIDE)	MS27039C1-12 SCREW 35 PLCS (LATERAL AND UPPER SIDE)
MS27039C1-14 SCREW 22 PLCS (LOWER SIDE)	MS27039C1-14 SCREW 22 PLCS (LOWER SIDE)
NAS1149C0332R WASHER 57 PLCS	NAS1149C0332R WASHER 57 PLCS
OR:	OR:
3G9560V01434 AFT FLOAT LEFT RIGID COVER SMA ASSY	3G9560V01534 AFT FLOAT RIGHT RIGID COVER SMA ASSY
MS27039C1-12 SCREW 35 PLCS (LATERAL AND UPPER SIDE)	MS27039C1-12 SCREW 35 PLCS (LATERAL AND UPPER SIDE)
MS27039C1-14 SCREW 22 PLCS (LOWER SIDE)	MS27039C1-14 SCREW 22 PLCS (LOWER SIDE)
NAS1149C0332R WASHER 57 PLCS	NAS1149C0332R WASHER 57 PLCS



**Figure 13**

S.B. N°139-516  
DATE: January 18, 2022  
REVISION: /



**Figure 14**

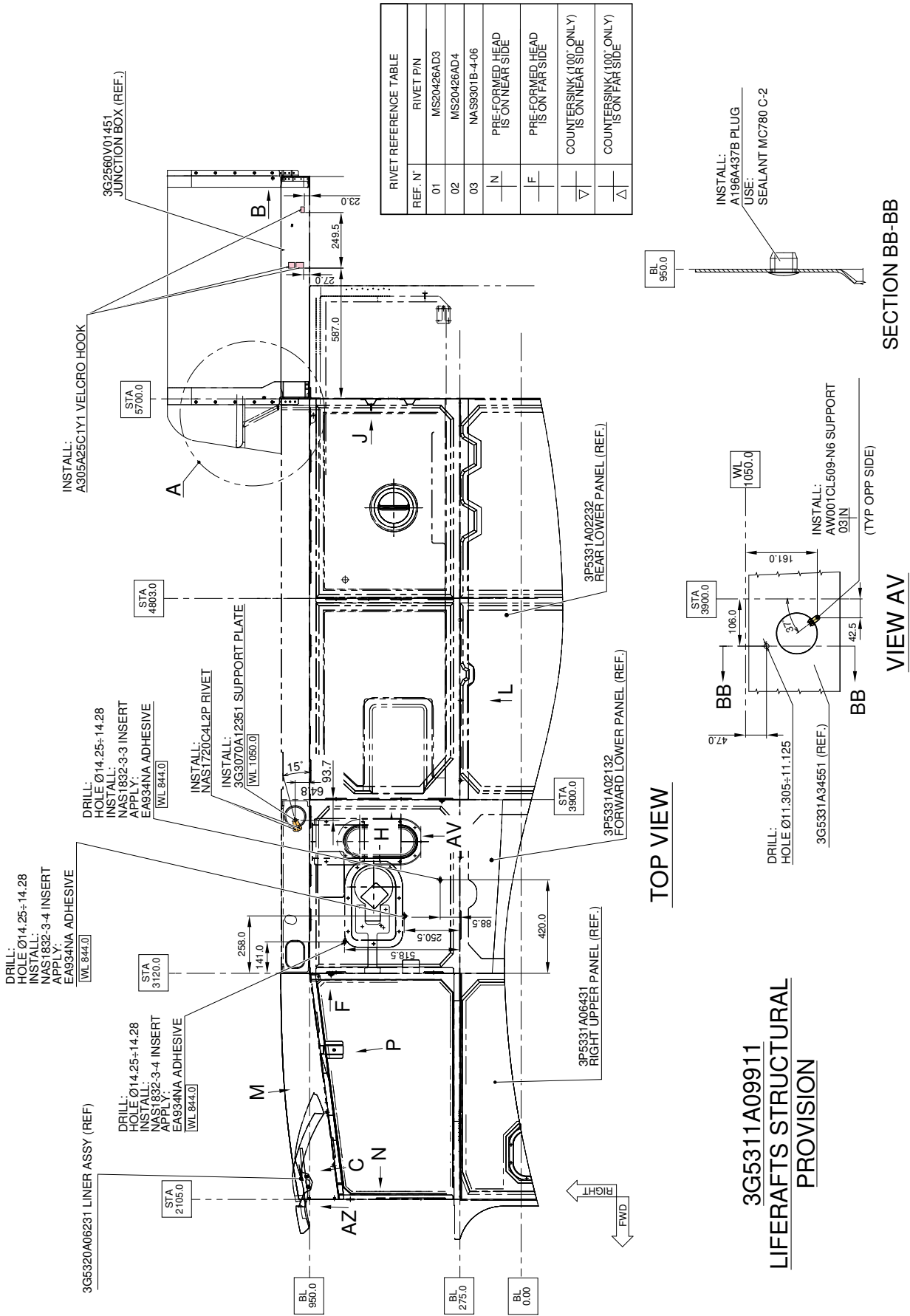
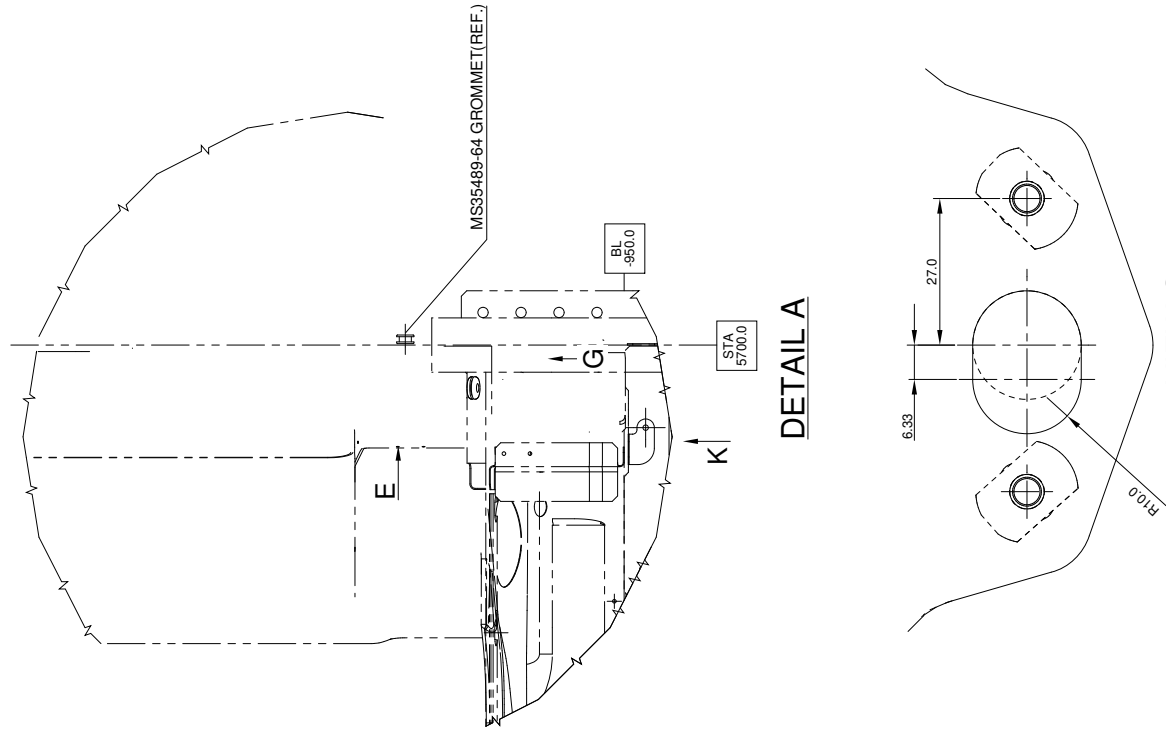
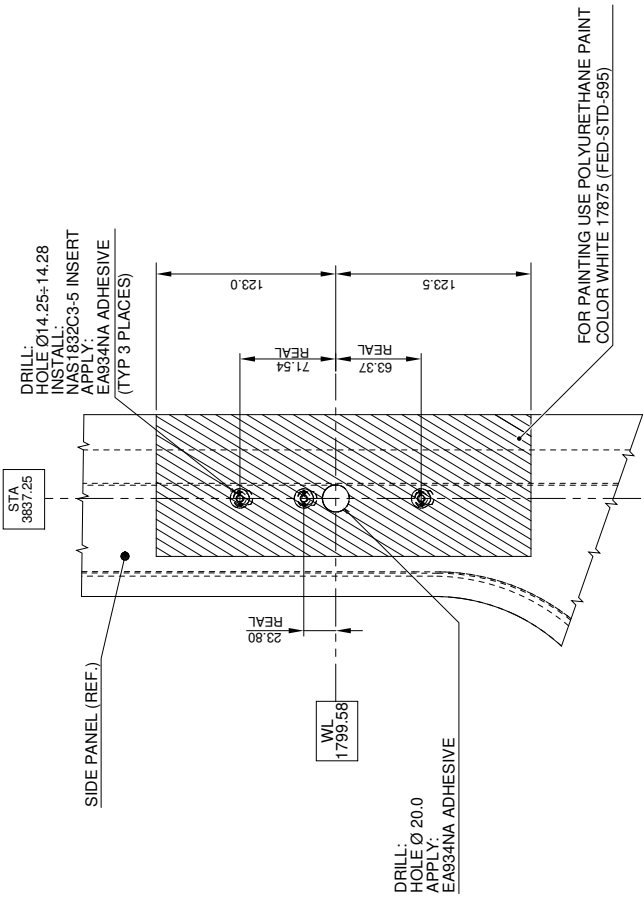


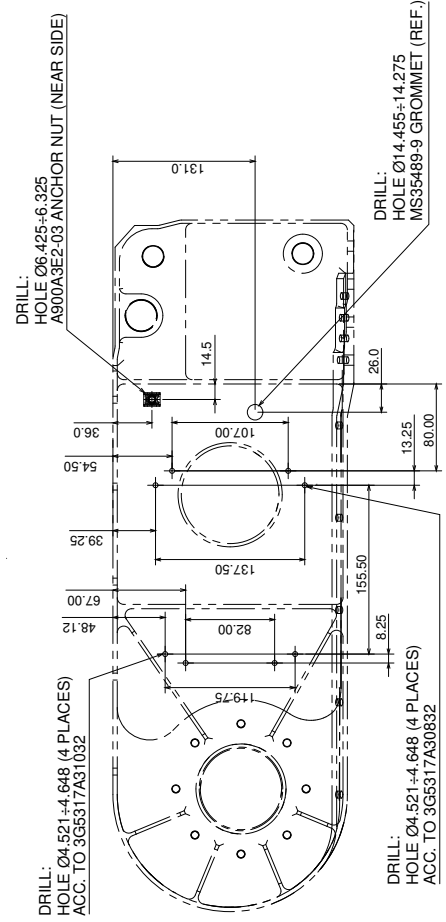
Figure 15



**VIEW C**  
CREATE EYELET TO ADAPT TO 3G2560V01731 PILOT HANDLE AND CABLE ASSY (REF.)



**VIEW LOOKING INBOARD LH SIDE**  
TYP OPP SIDE



**VIEW B**

**Figure 16**

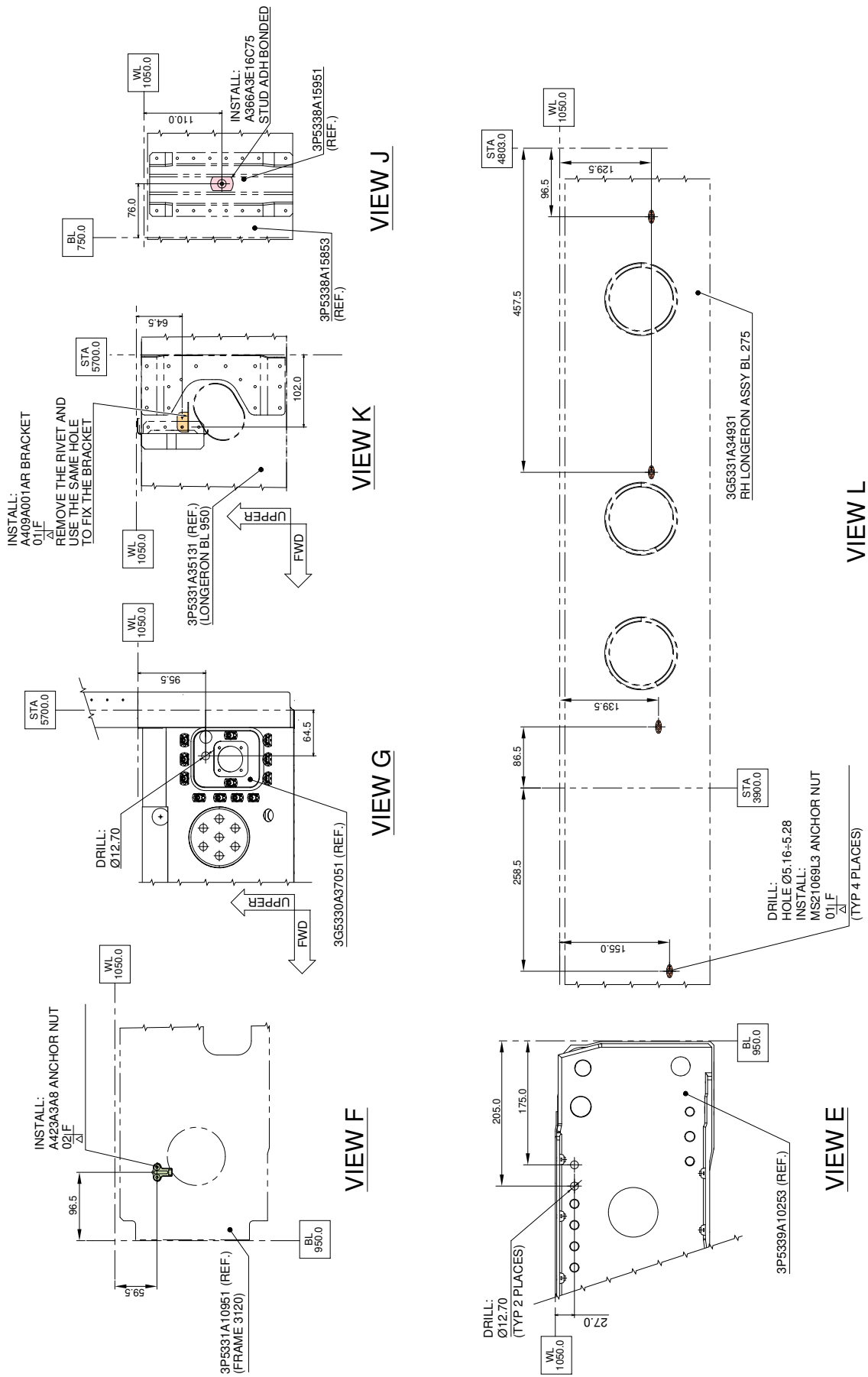
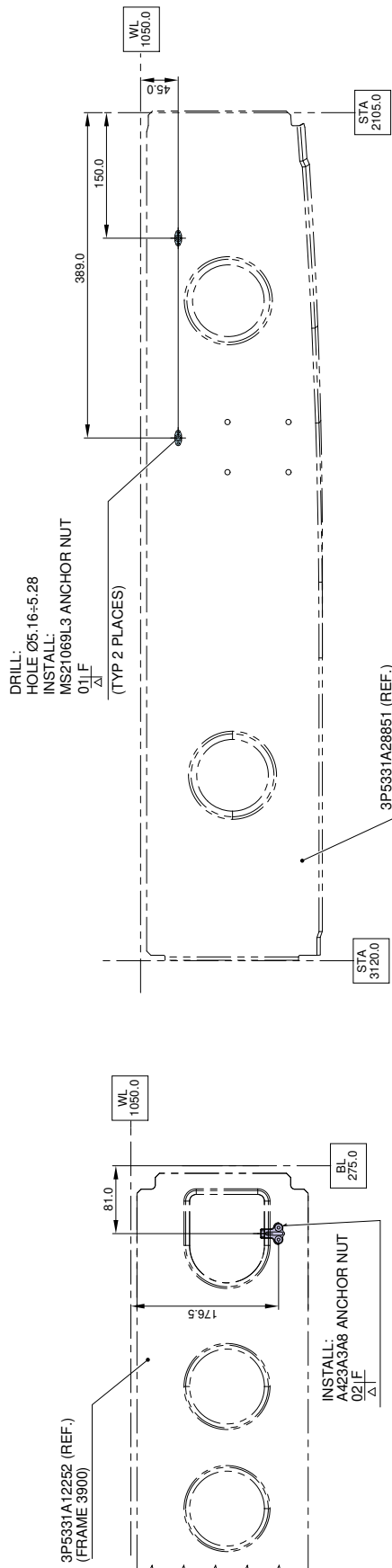


Figure 17

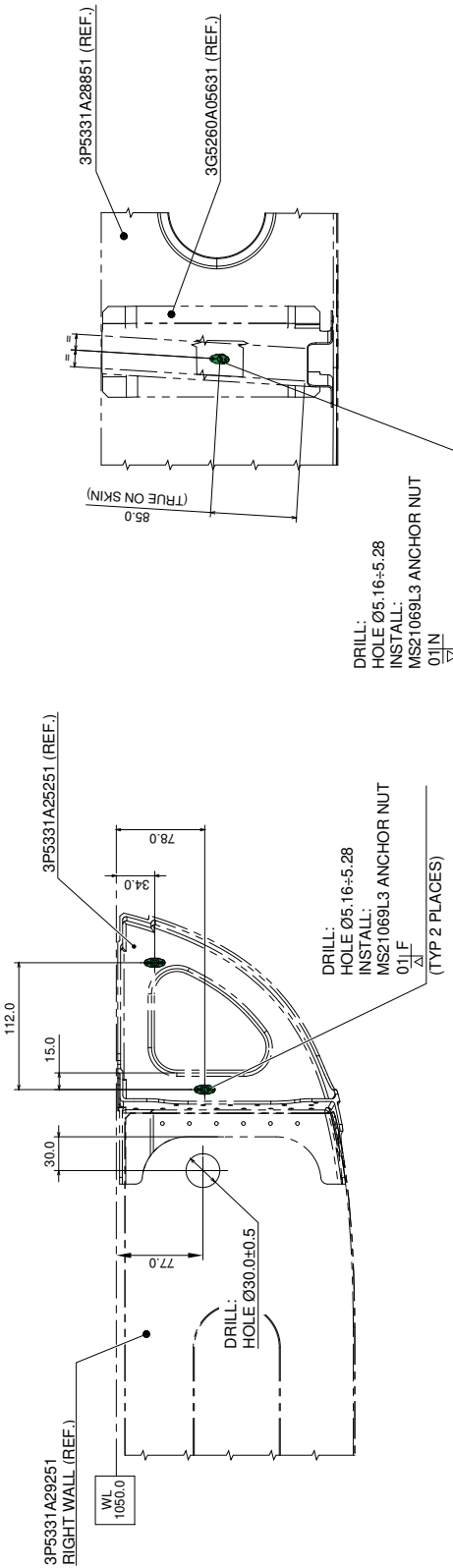
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**VIEW M**

**VIEW H**

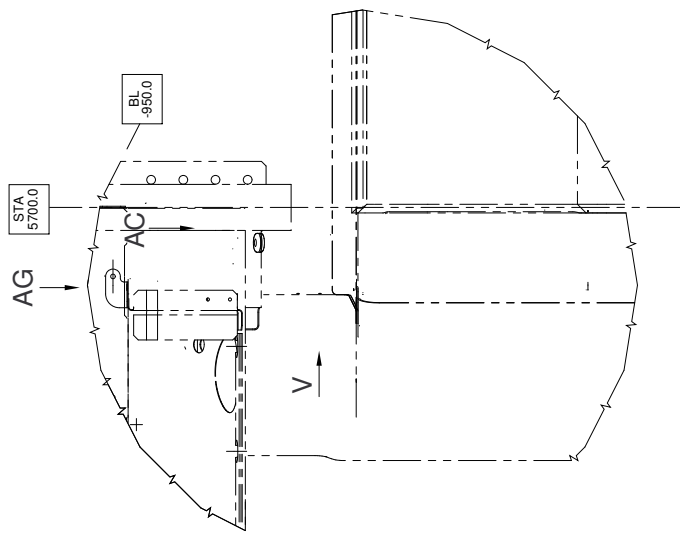


**VIEW P**

**VIEW N**

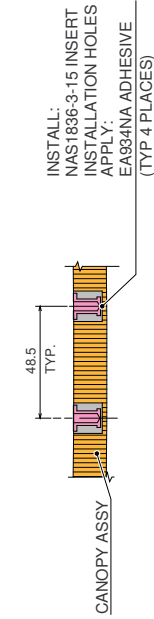
**Figure 18**





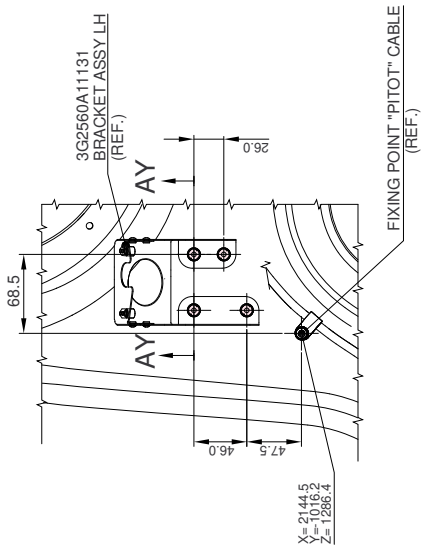
**DETAILS**

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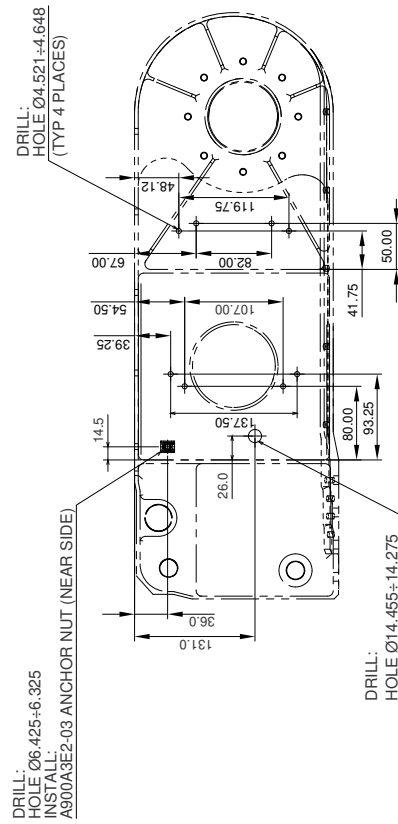
**SECTION AY-AY**

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE



**VIEW AW**

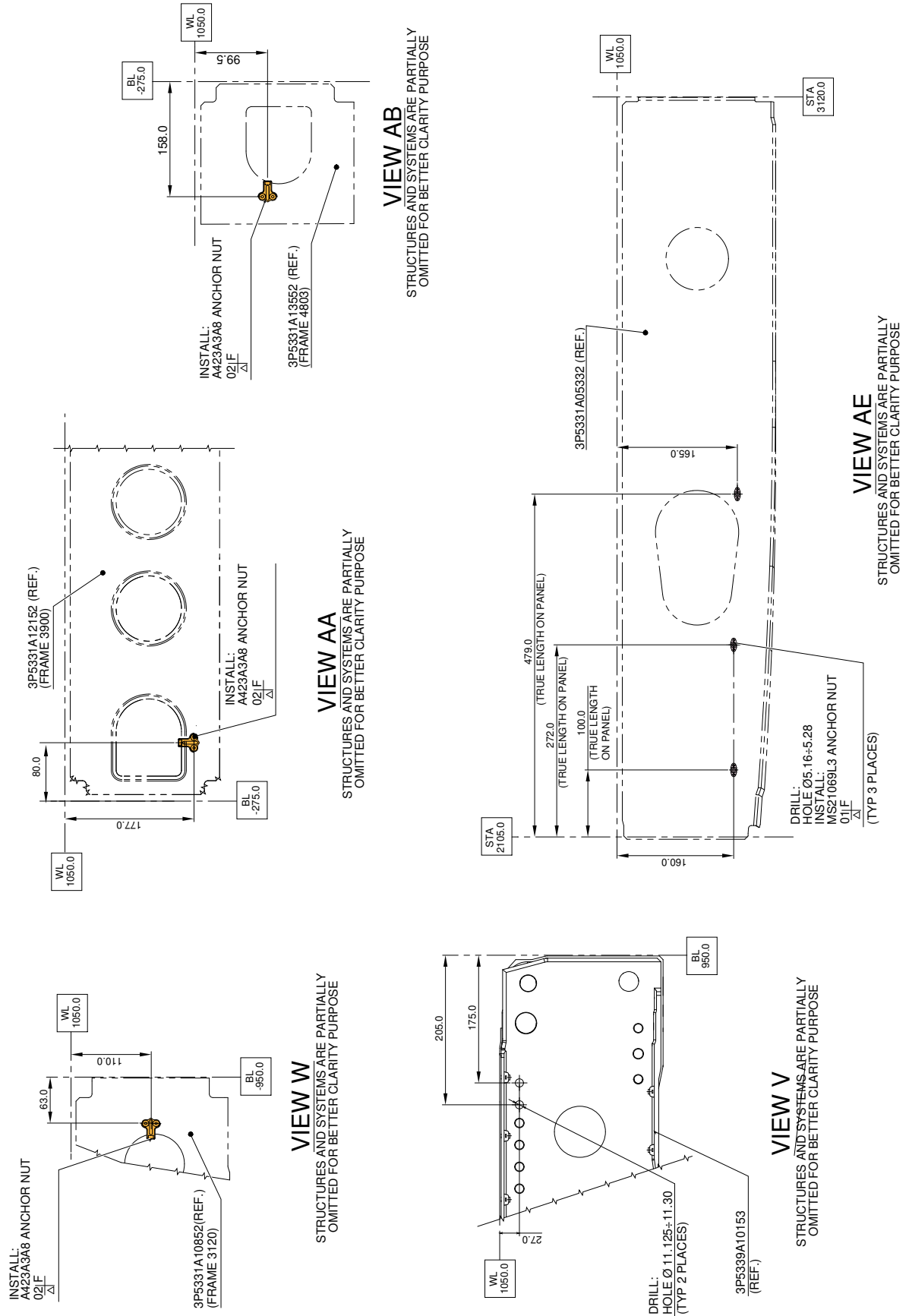
(FOR CLARITY OMITTED P/N 3G5320A06131)



**VIEW T**

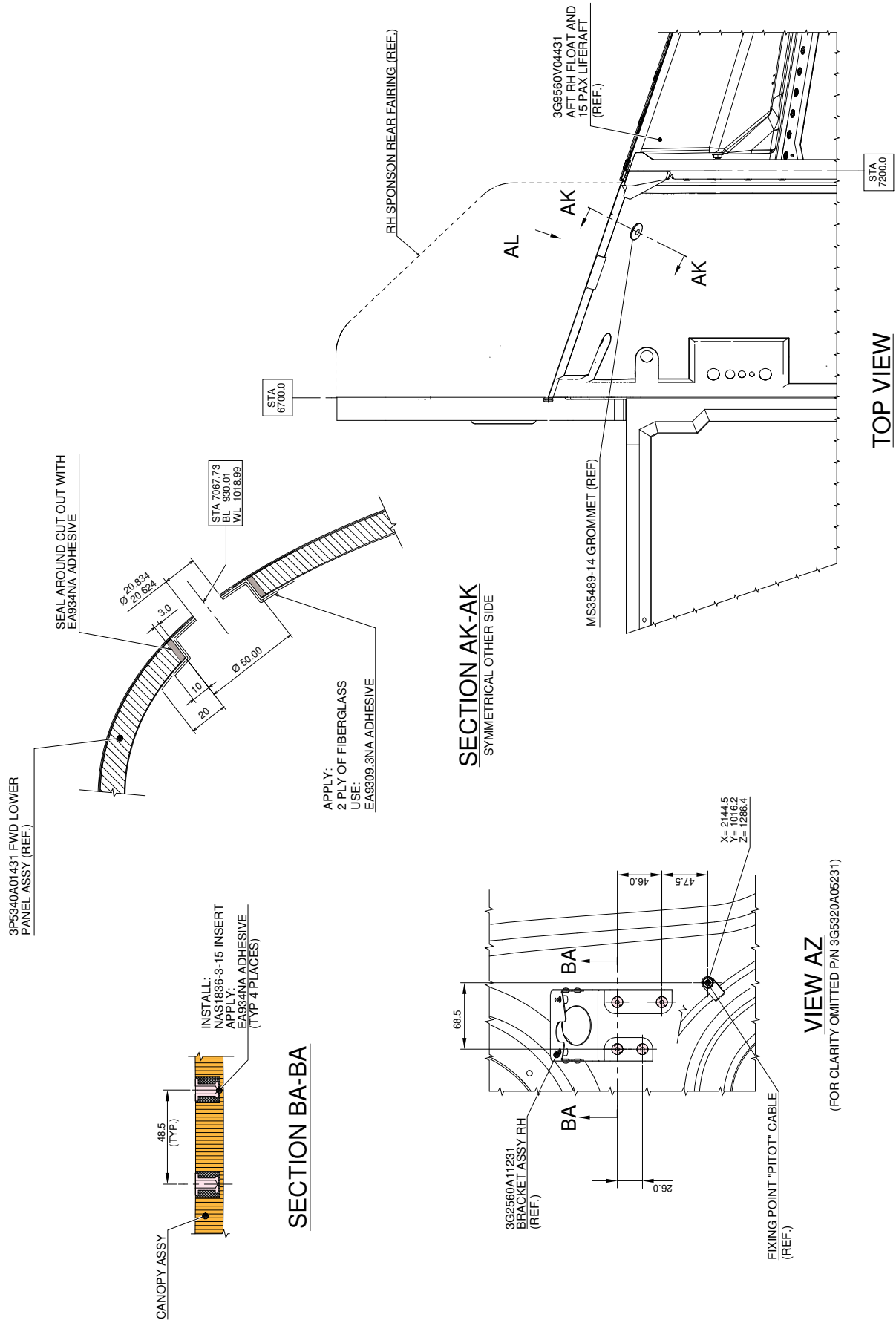
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

**Figure 20**

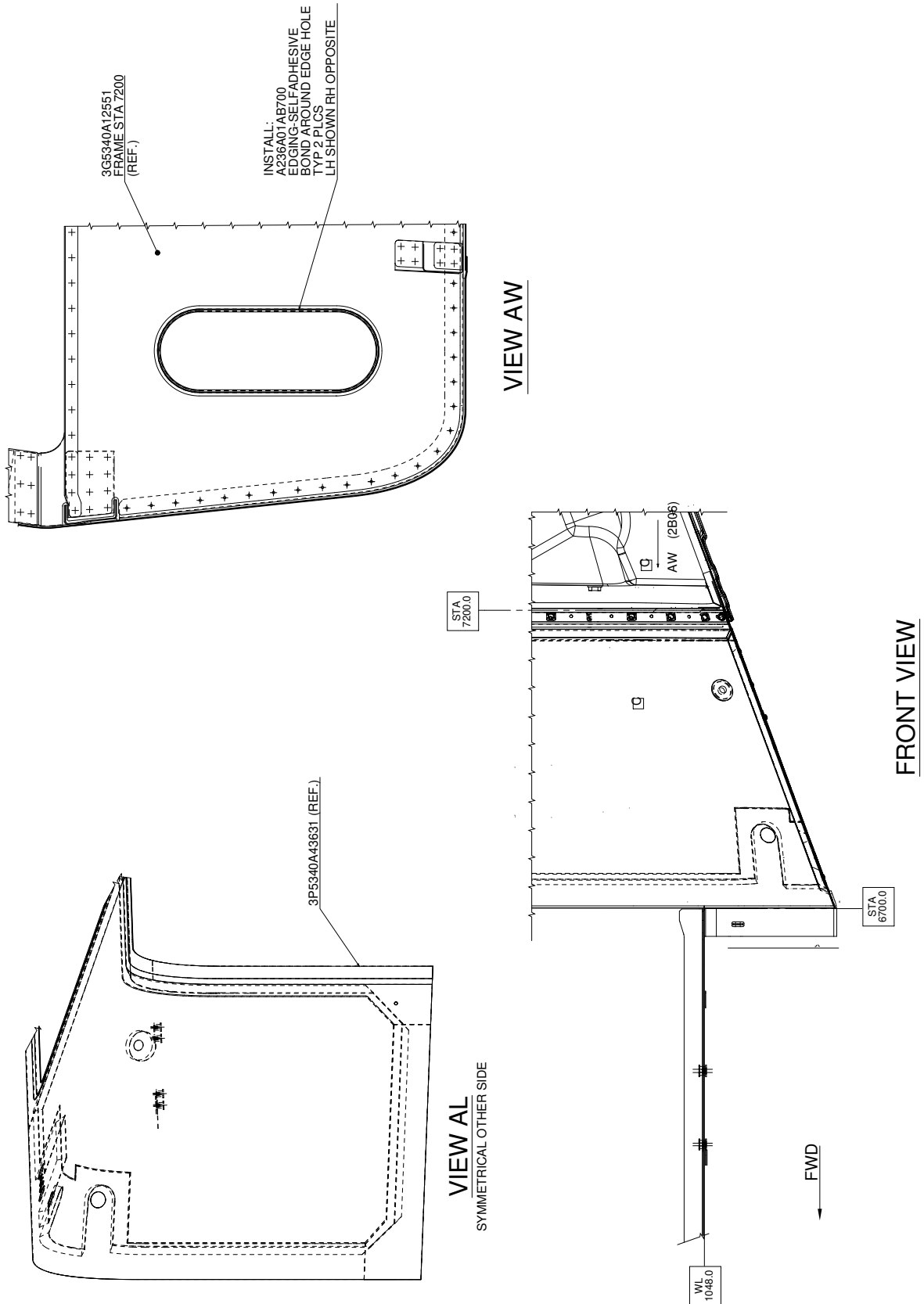


**Figure 21**



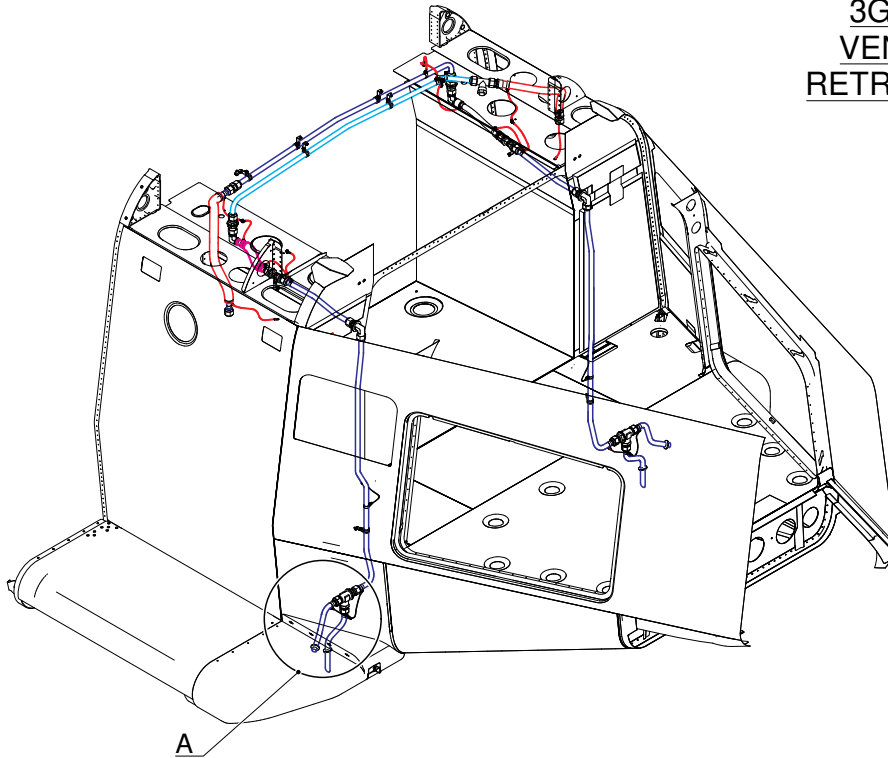


**Figure 23**

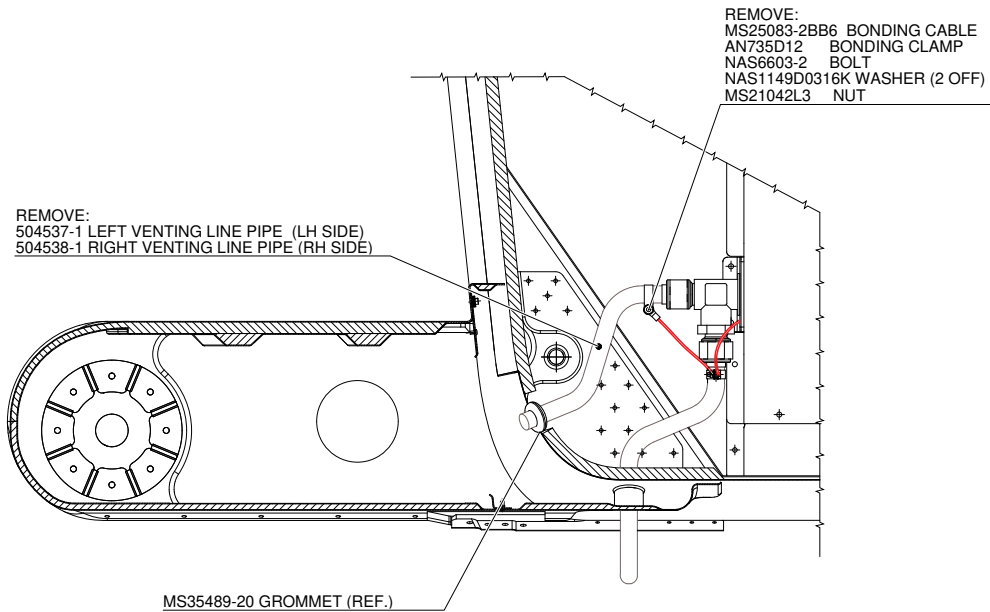


**Figure 24**

**3G2810P00211**  
**VENTING PIPES**  
**RETRO MOD (DART)**



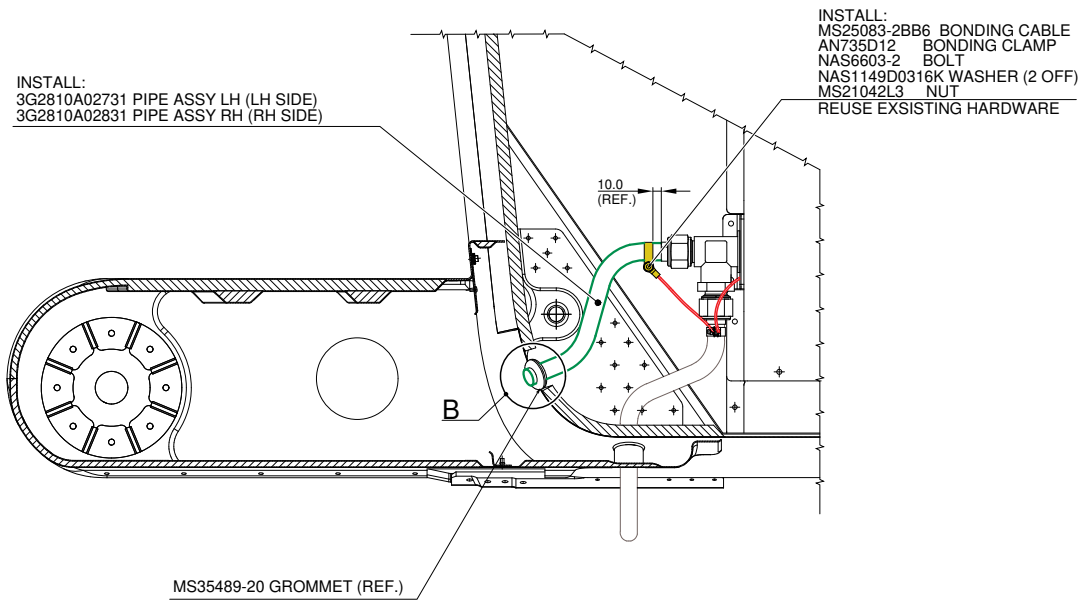
**ISOMETRIC VIEW**  
PART OF VIEW NOT SHOWN FOR CLARITY.



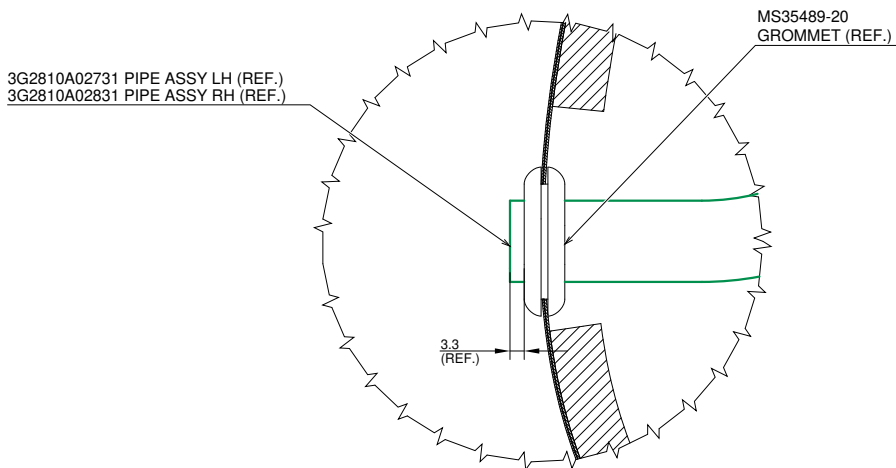
**DETAIL A**  
PARTS TO REMOVE  
LH SIDE SHOWN, RH SIDE SYMMETRIC.

**Figure 25**





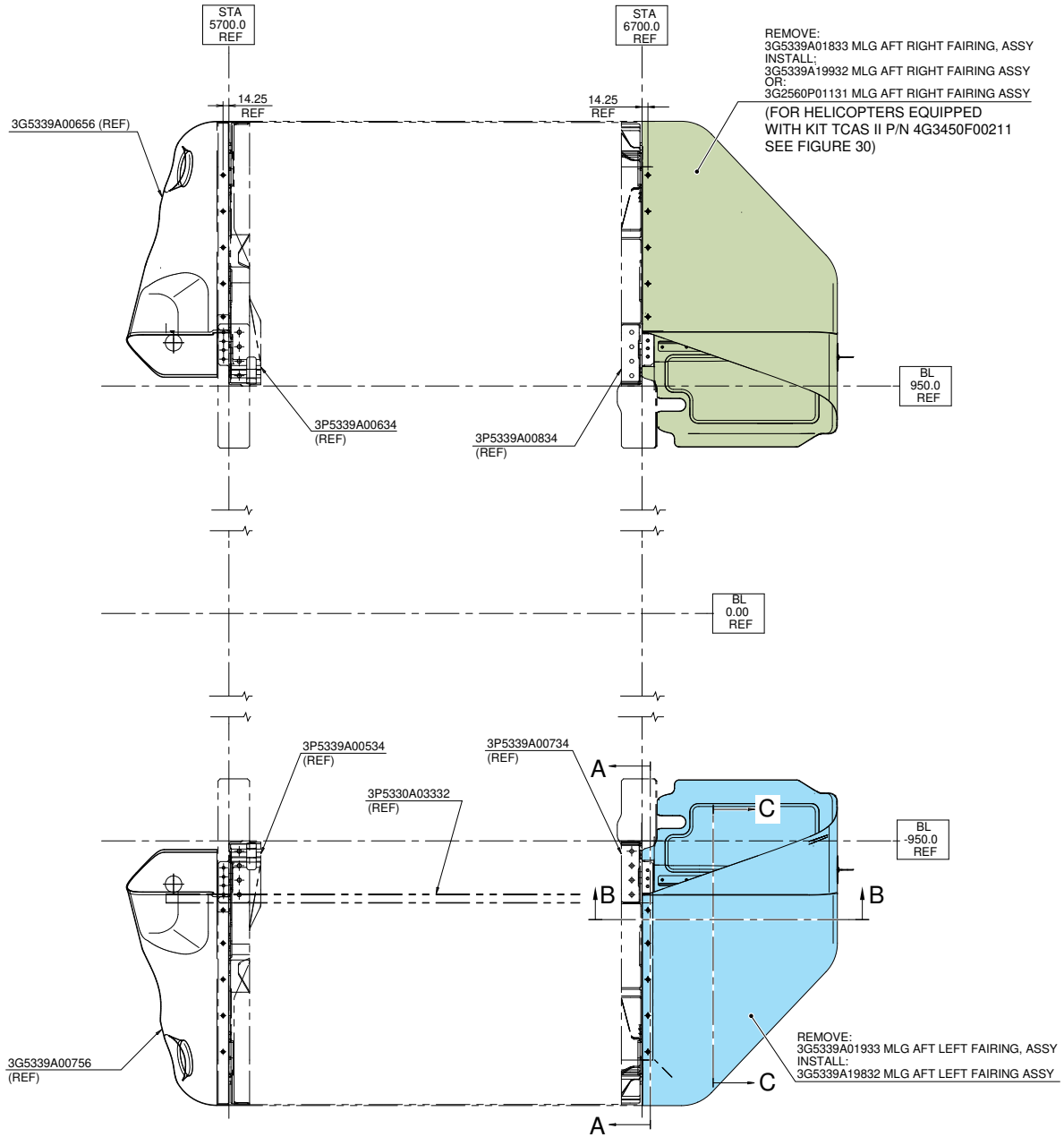
**DETAIL A**  
PARTS TO INSTALL.  
LH SIDE SHOWN, RH SIDE SYMMETRIC.



**DETAIL B**  
LH SIDE SHOWN, RH SIDE SYMMETRIC.

**Figure 26**

**3G5339A21111**  
**MLG AFT FAIRING DART**  
**INSTALLATION**

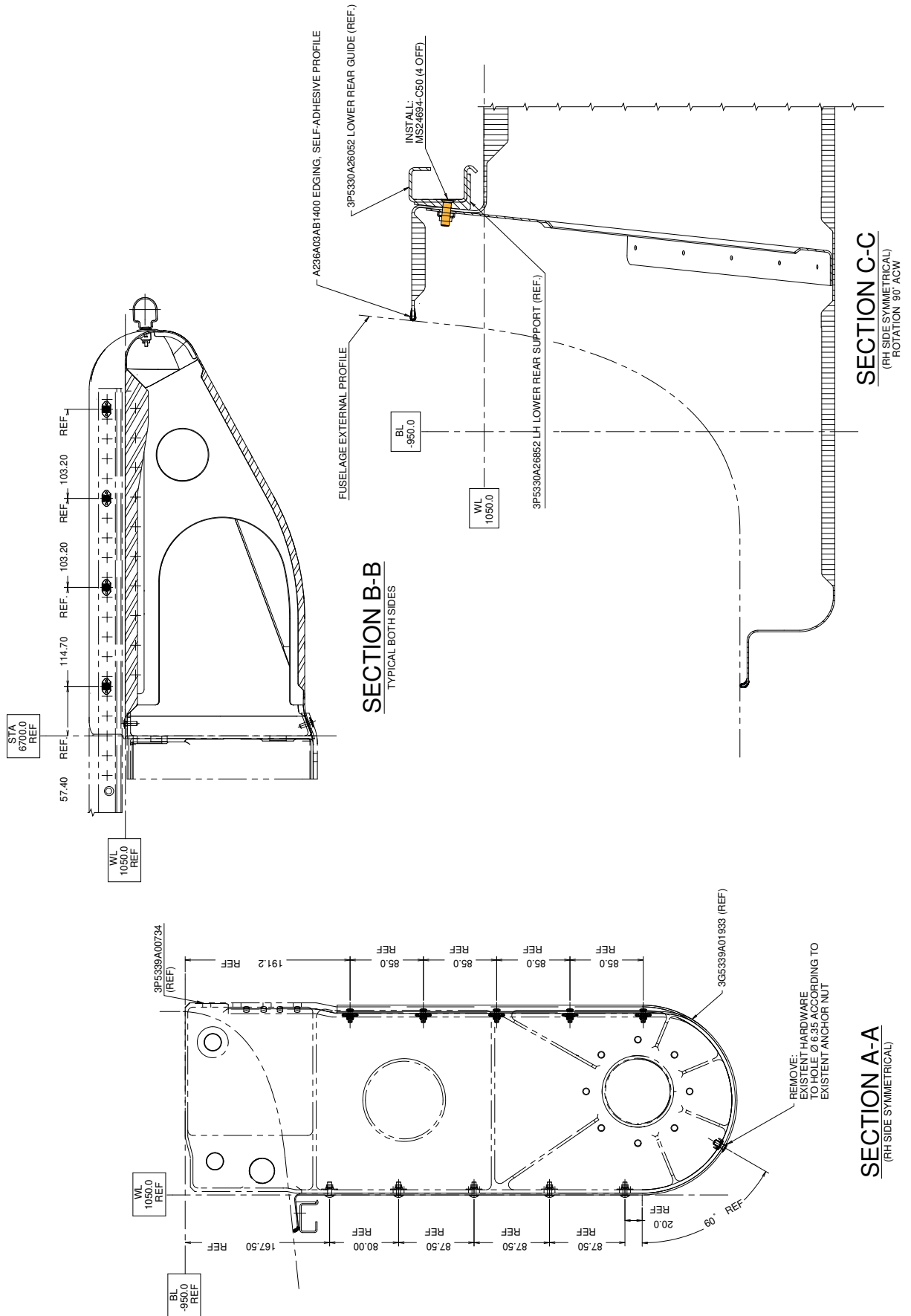


**TOP VIEW**

STRUCTURES AND SYSTEMS ARE PARTIALLY  
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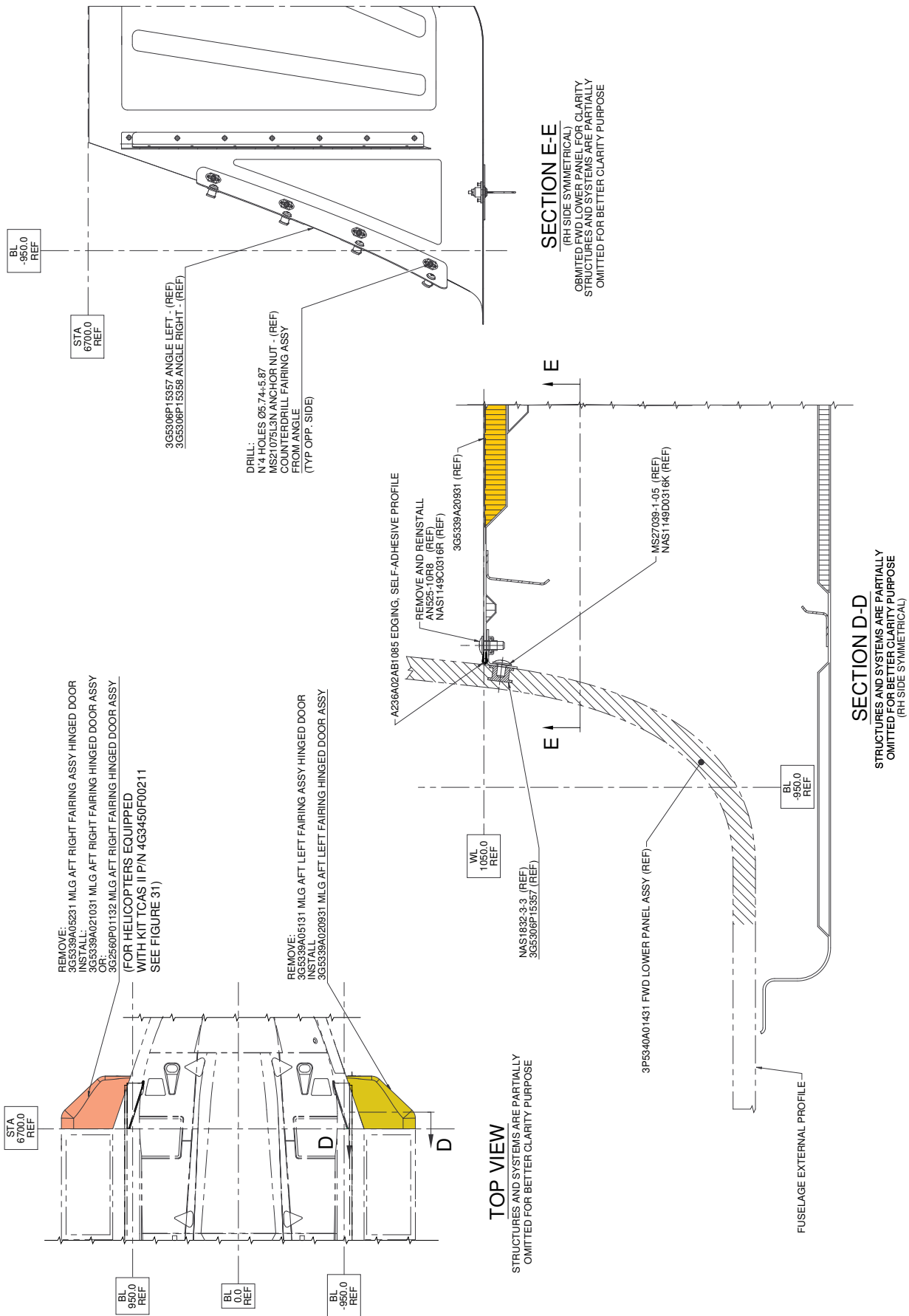
**Figure 27**

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REVISION: /



**Figure 28**

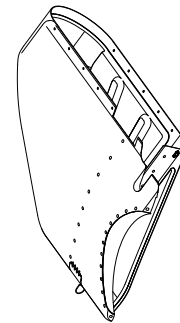
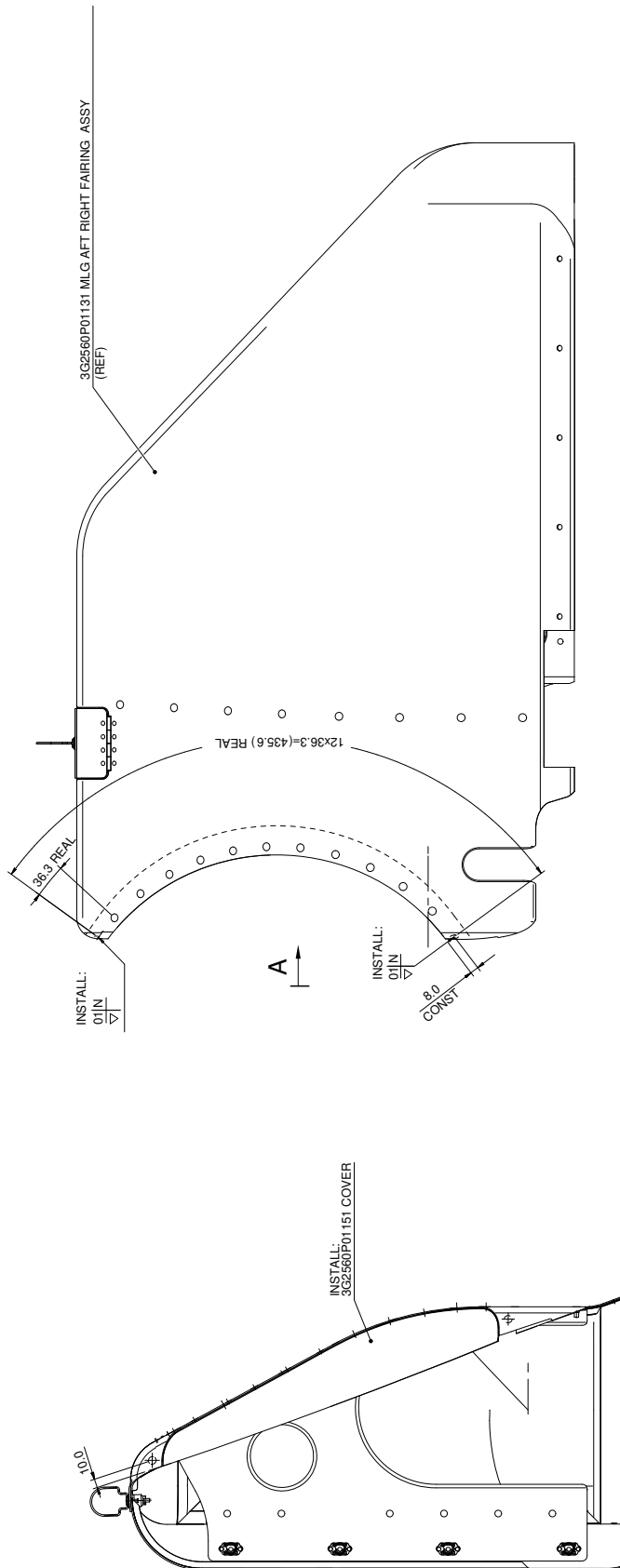
S.B. N°139-516  
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 REVISION: /



**Figure 29**

**3G2560P01111**  
**RH AFT FAIRING VARIANT**  
**FOR TCAS II**

(VALID ONLY FOR HELICOPTERS EQUIPPED WITH KIT TCAS II P/N 4G3450F00211)

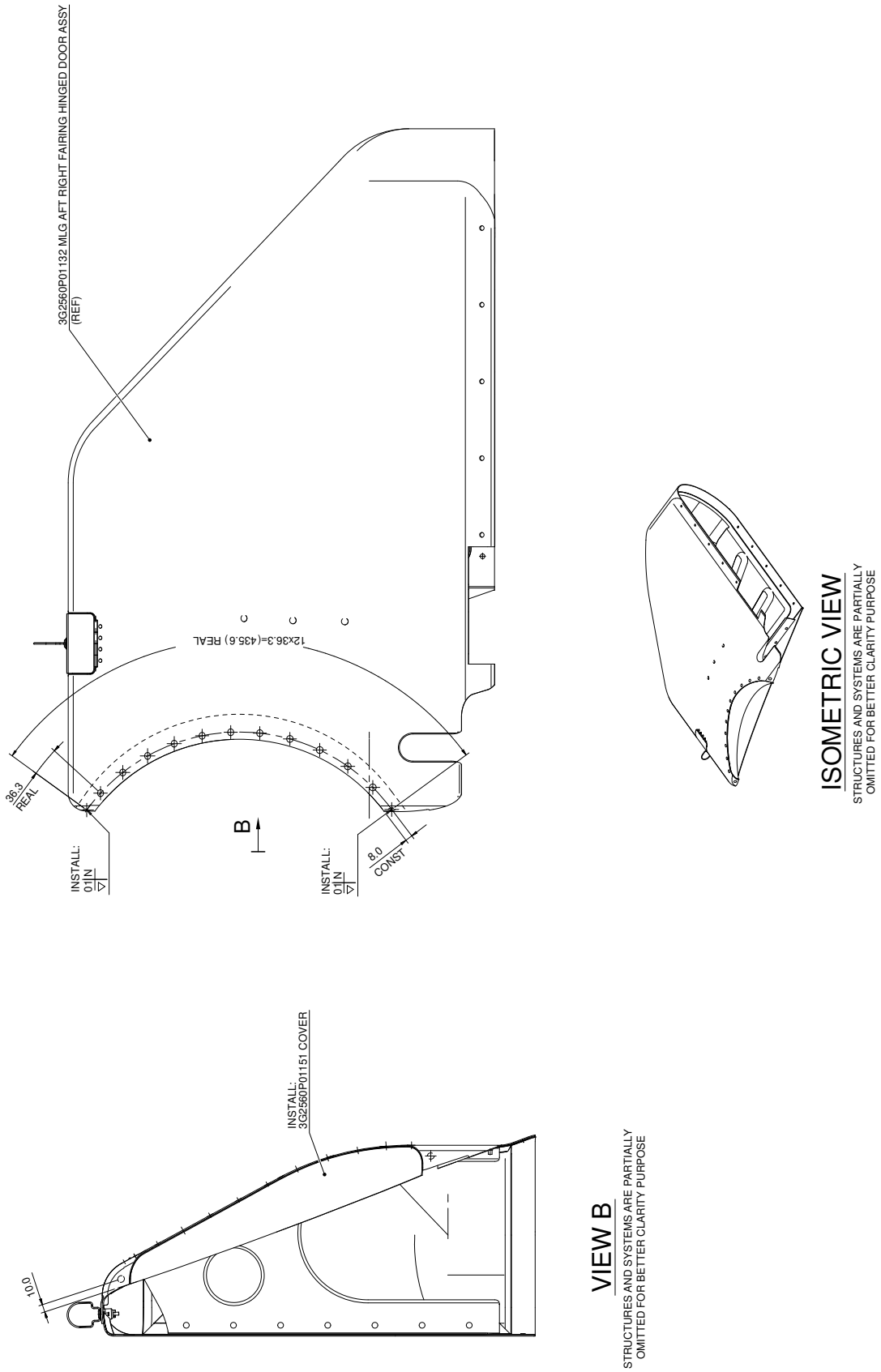


**ISOMETRIC VIEW**  
 STRUCTURES AND SYSTEMS ARE PARTIALLY  
 OMITTED FOR BETTER CLARITY PURPOSE

**VIEW A**  
 STRUCTURES AND SYSTEMS ARE PARTIALLY  
 OMITTED FOR BETTER CLARITY PURPOSE

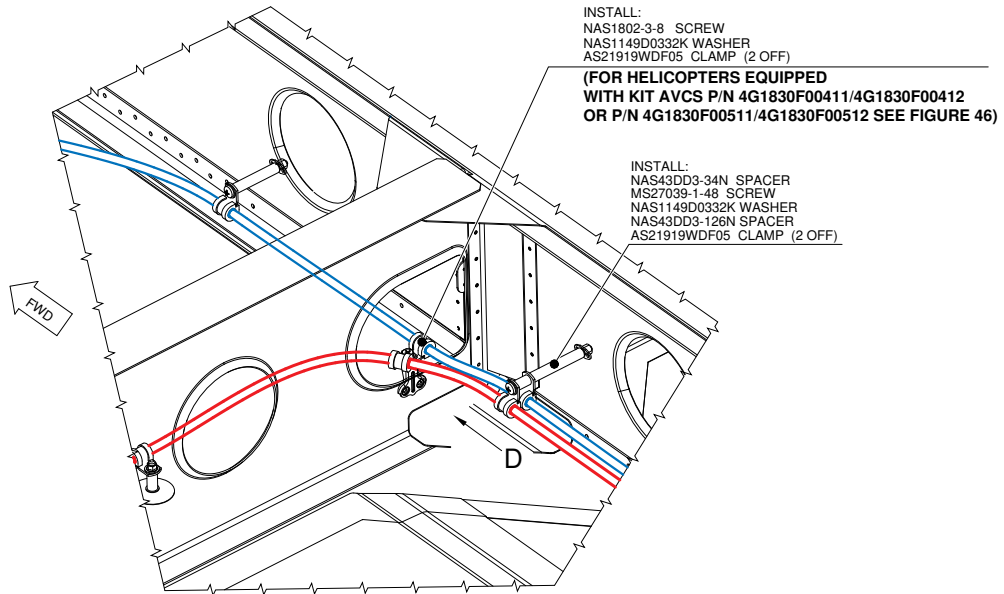
RIVET REFERENCE TABLE	
REF. N°	RIVET P/N
01	A299A05TW02
N	PRE-FORMED HEAD IS ON NEAR SIDE
F	PRE-FORMED HEAD IS ON FAR SIDE
▽	COUNTERSINK (100° ONLY) IS ON NEAR SIDE
△	COUNTERSINK (100° ONLY) IS ON FAR SIDE

**Figure 30**



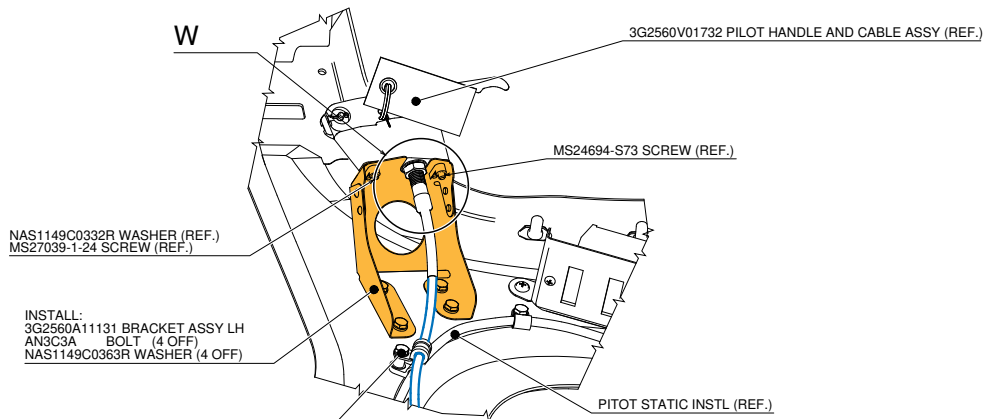
**Figure 31**





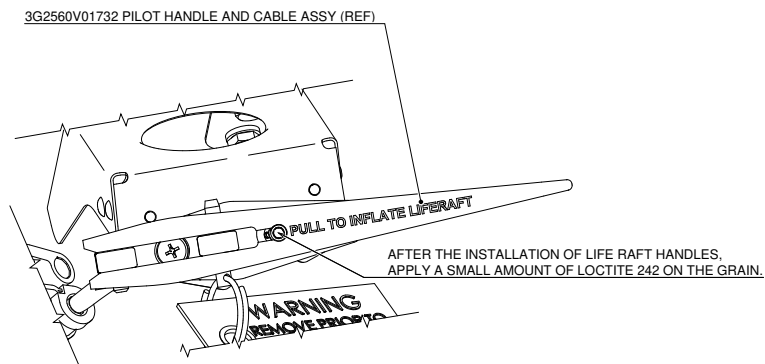
**VIEW B**

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE



**VIEW C**

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

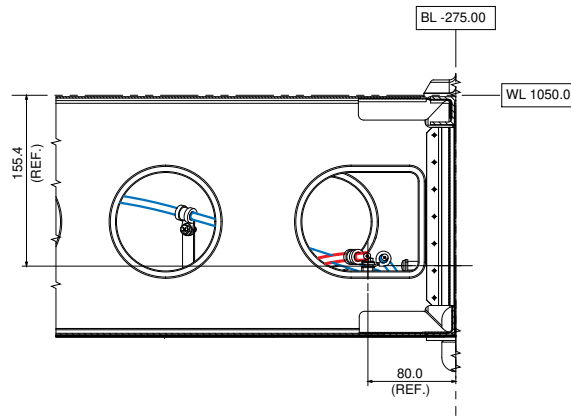


**VIEW AC**

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

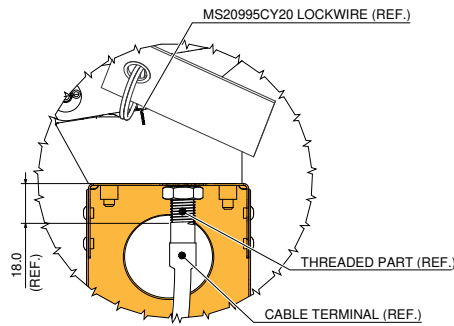
**Figure 33**





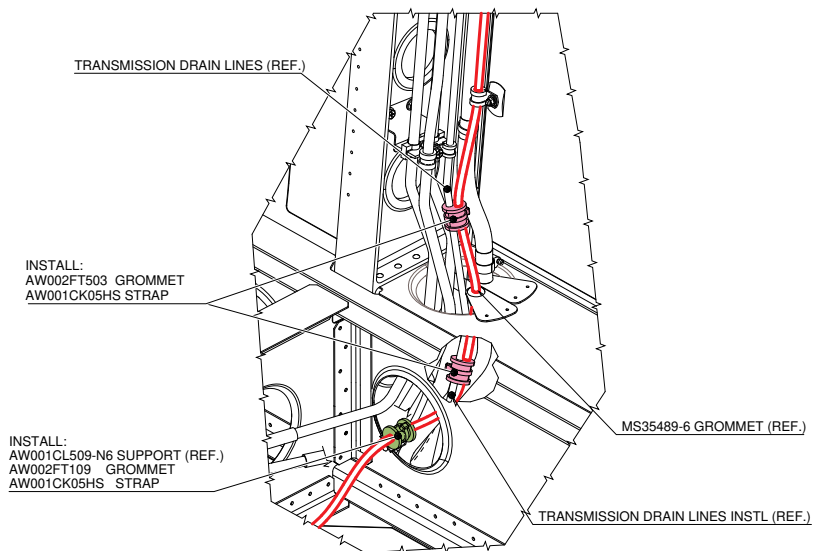
**VIEW D**

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE



**VIEW W**

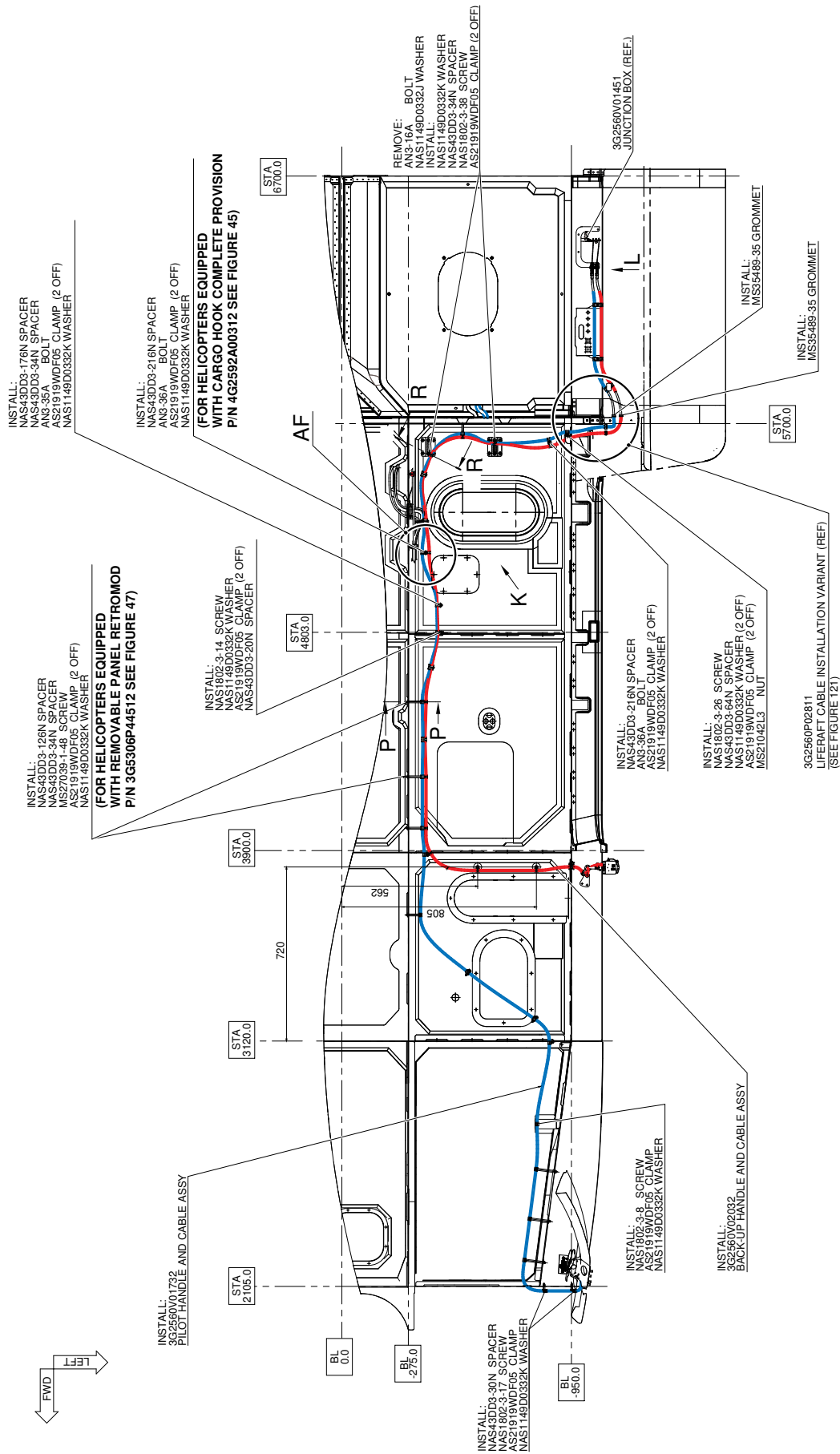
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE



**VIEW J**

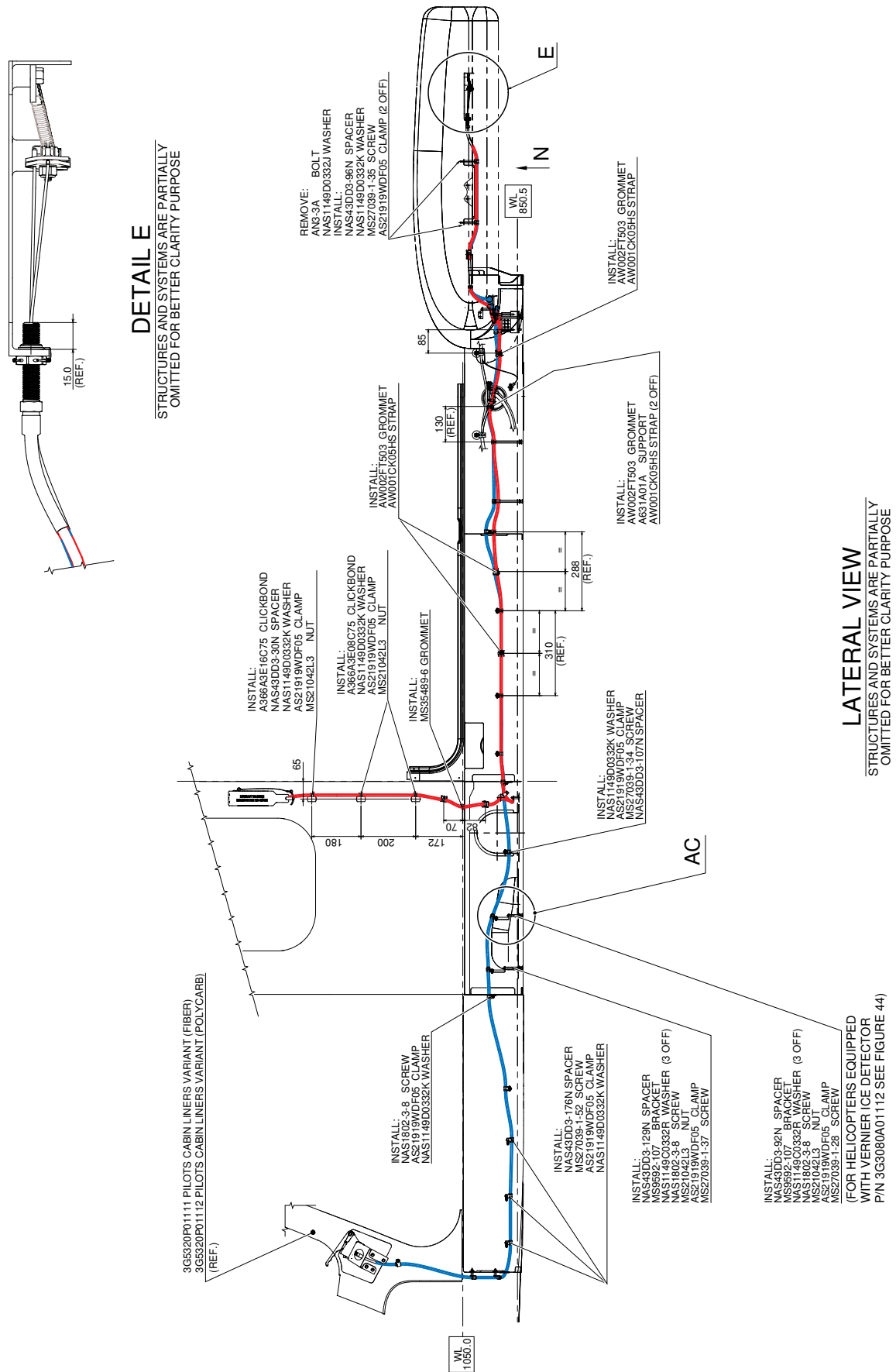
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

**Figure 34**

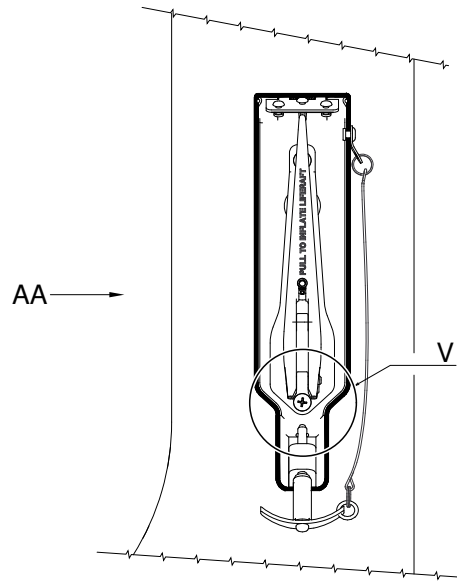


STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

**Figure 35**

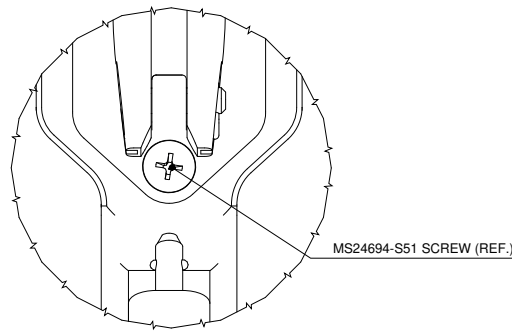


**Figure 36**



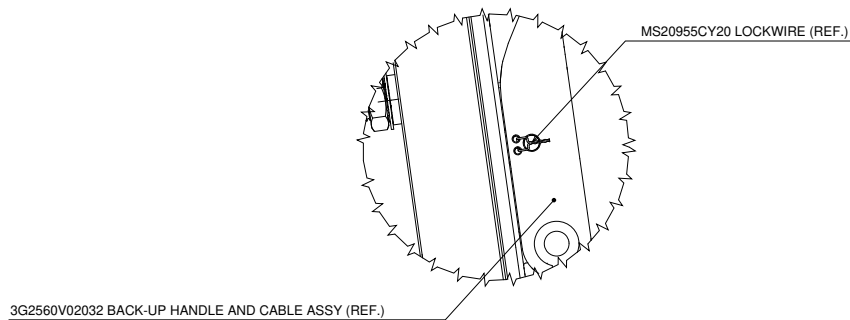
**VIEW G**

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE



**DETAIL V**

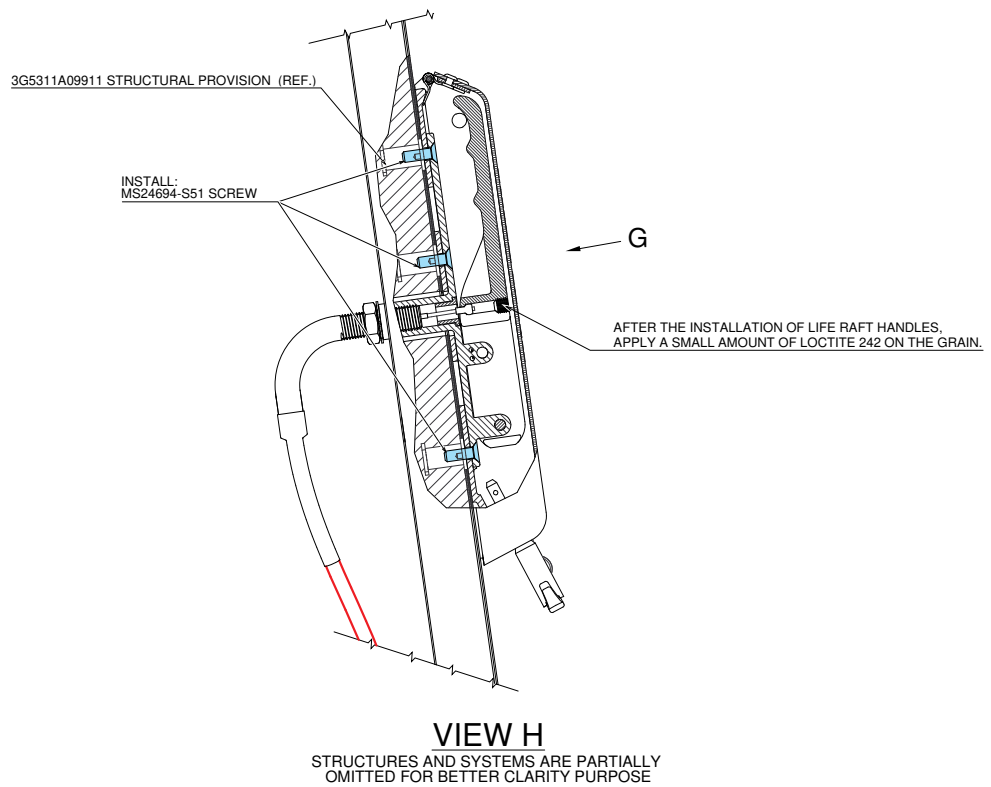
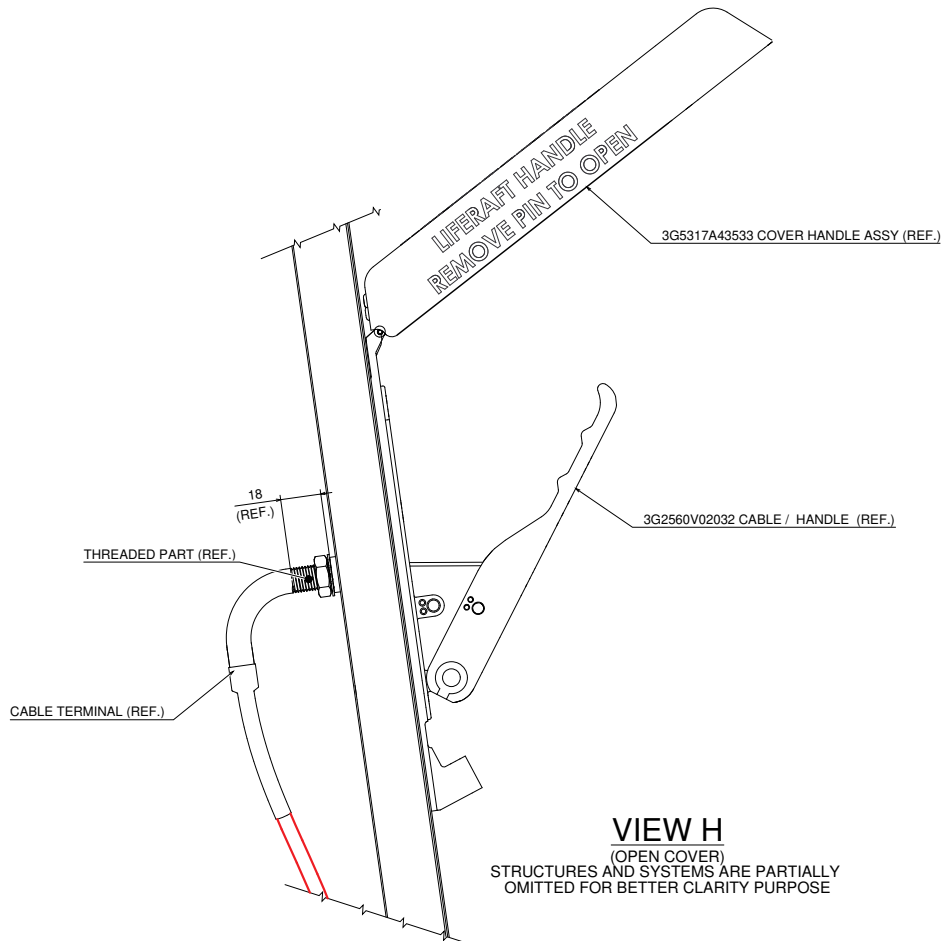
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE



**VIEW AA**

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

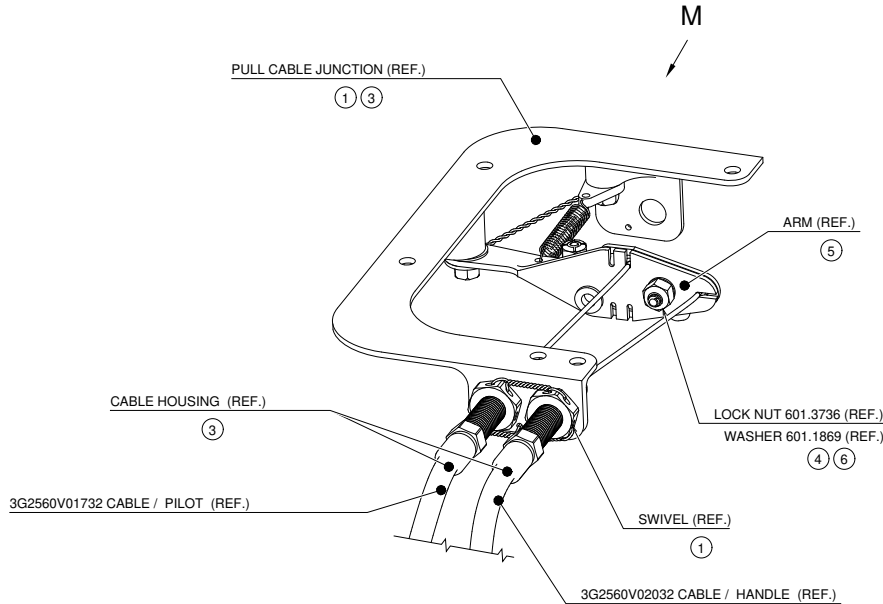
**Figure 37**



**Figure 38**

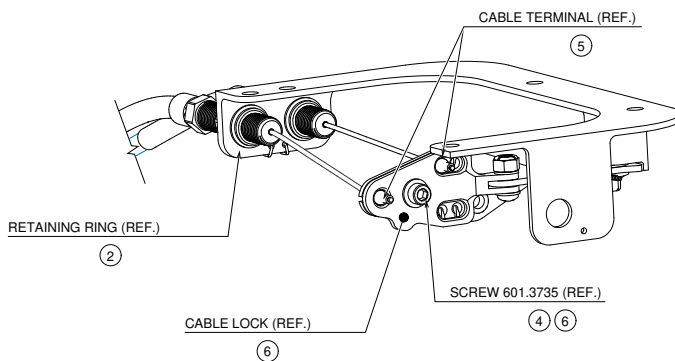
**PROCEDURE FOR INSTALLATION:**

1. INTRODUCE SWIVEL UNTIL CONTACT WITH THE SURFACE OF PULL CABLE JUNCTION.
2. INSTALL RETAINING RING IN SLOT OF SWIVEL.
3. INSERT CABLE IN PULL CABLE JUNCTION POSITIONING HOUSING IN ACCORDANCE WITH DIMENSION 15.0 mm (DETAIL C).
4. REMOVE LOCK NUT 601.3736 AND SCREW 601.3735, THEN ROTATE CABLE LOCK.
5. PLACE CABLE TERMINALS IN RELEVANT SLOTS OF JUNCTION BOX ARM.
6. CLOSE CABLE LOCK, TIGHTEN LOCK NUT 601.3736 AND SCREW 601.3735 TO 2.24 Nm TORQUE.



**VIEW L**

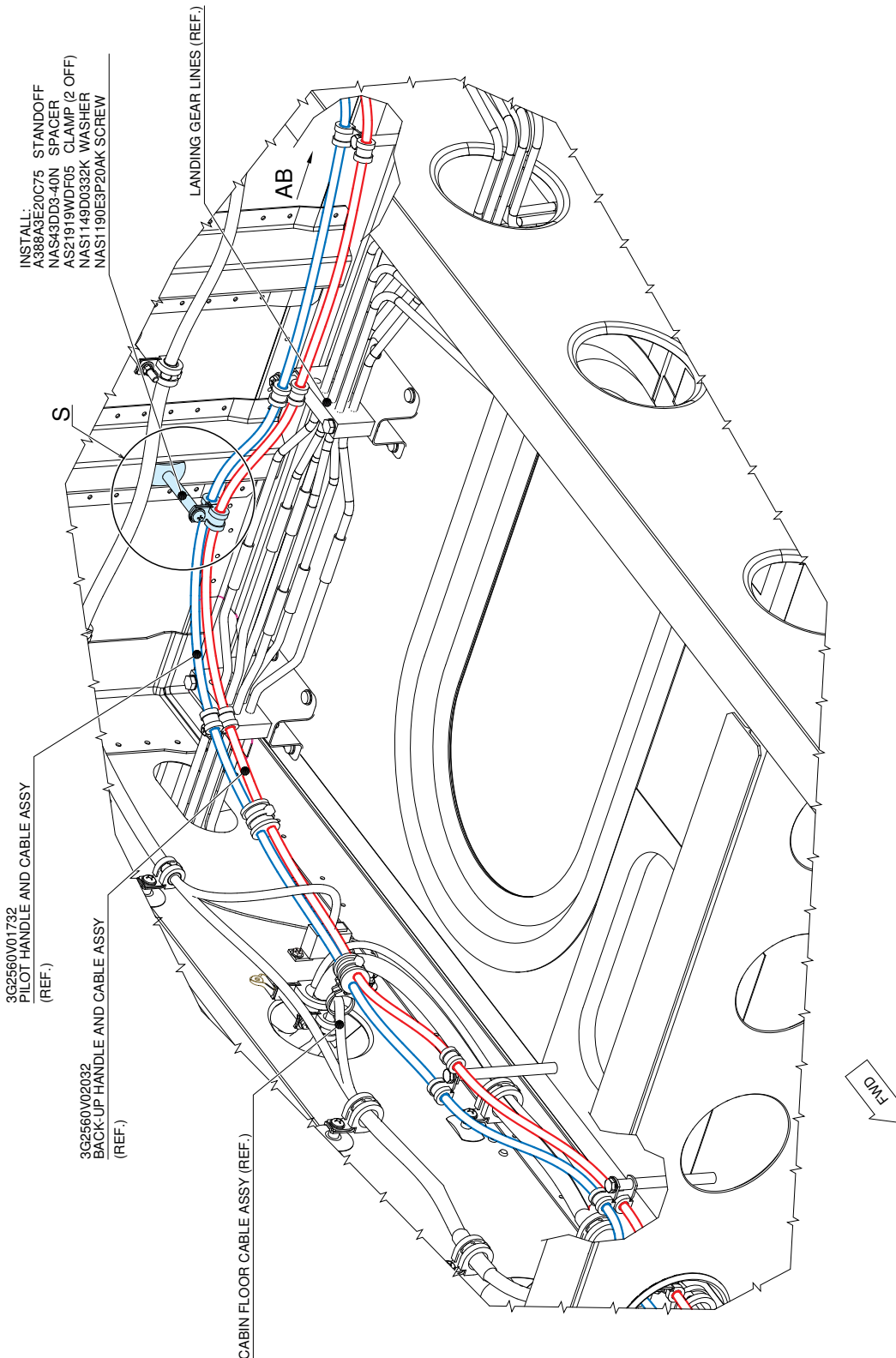
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE



**VIEW M**

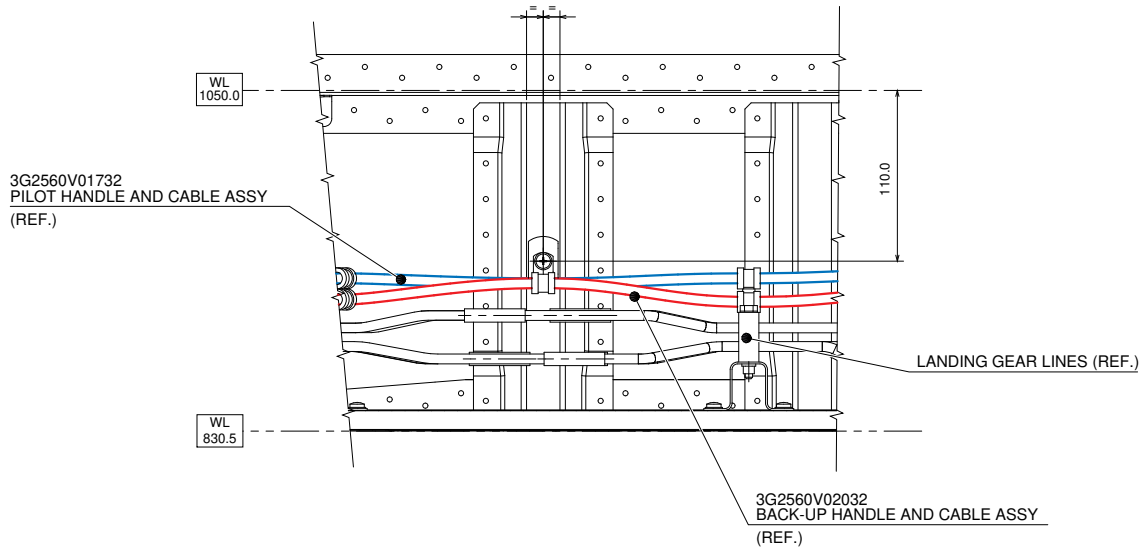
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

**Figure 39**



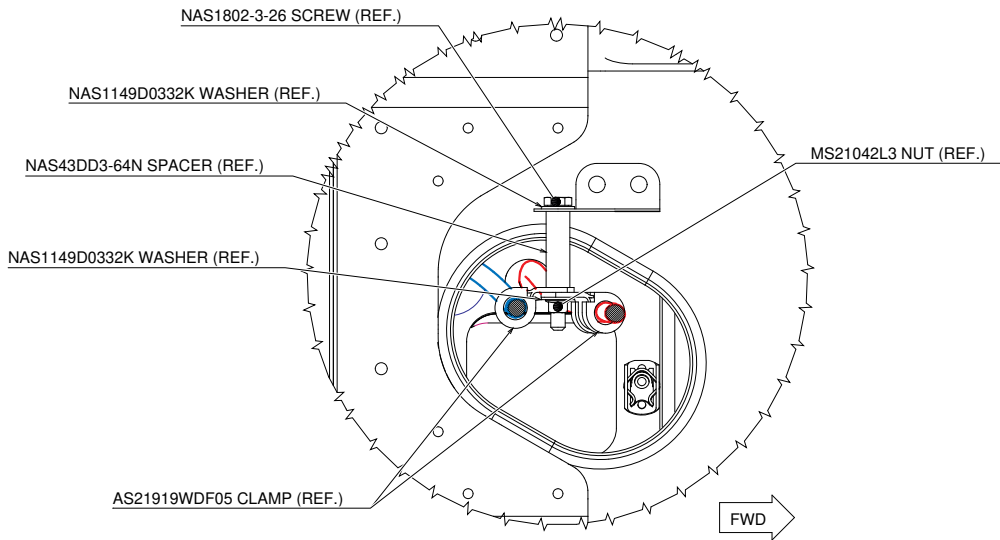
**VIEW K**  
STRUCTURES AND SYSTEMS ARE PARTIALLY  
OMITTED FOR BETTER CLARITY PURPOSE

**Figure 40**



**DETAIL S**

STRUCTURES AND SYSTEMS ARE PARTIALLY  
OMITTED FOR BETTER CLARITY PURPOSE

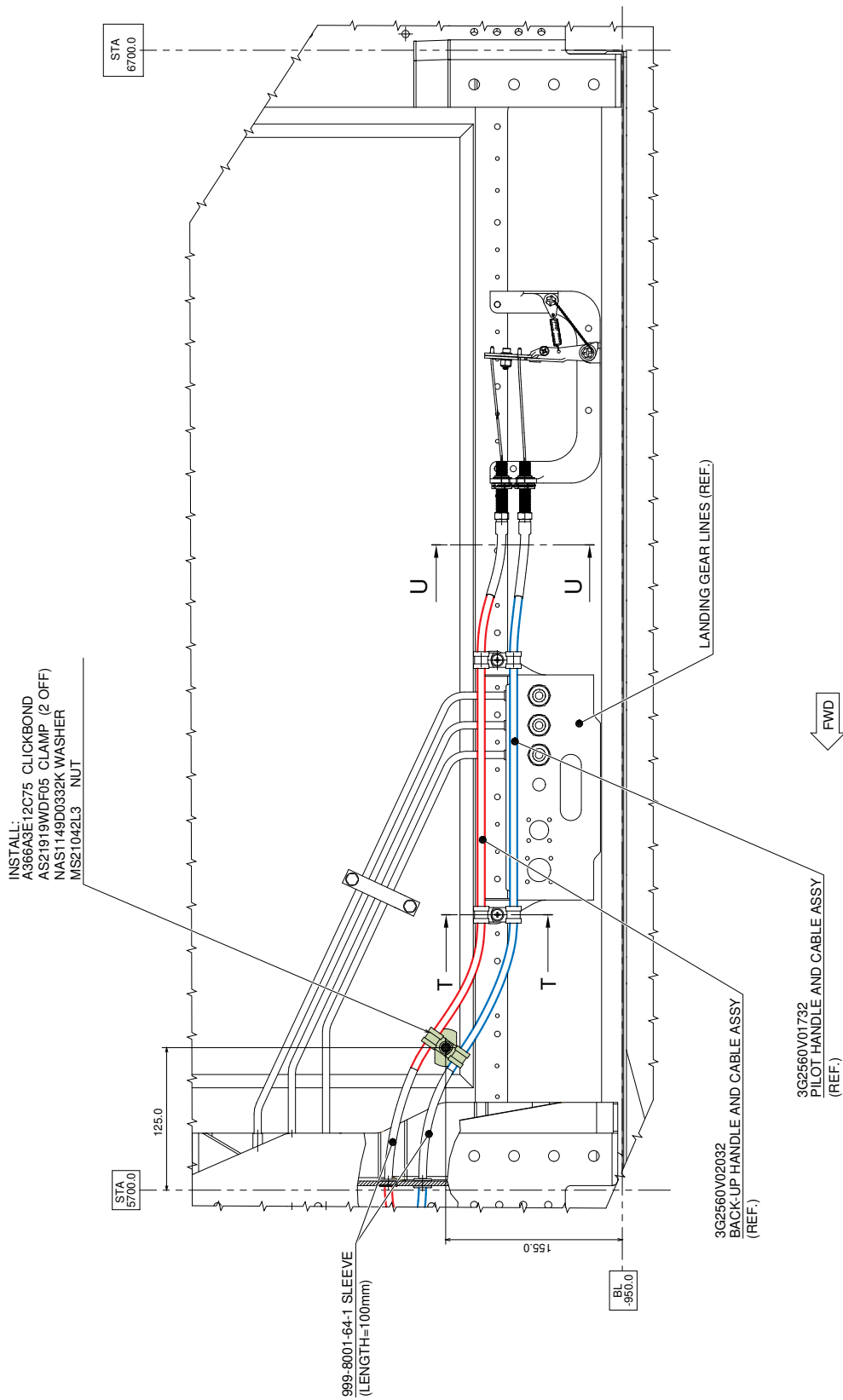


**VIEW AB**

STRUCTURES AND SYSTEMS ARE PARTIALLY  
OMITTED FOR BETTER CLARITY PURPOSE

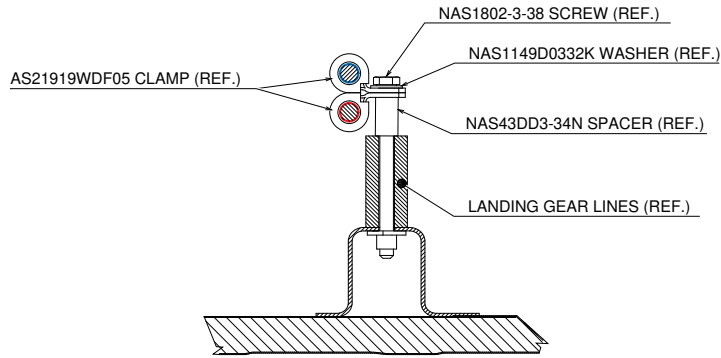
**Figure 41**





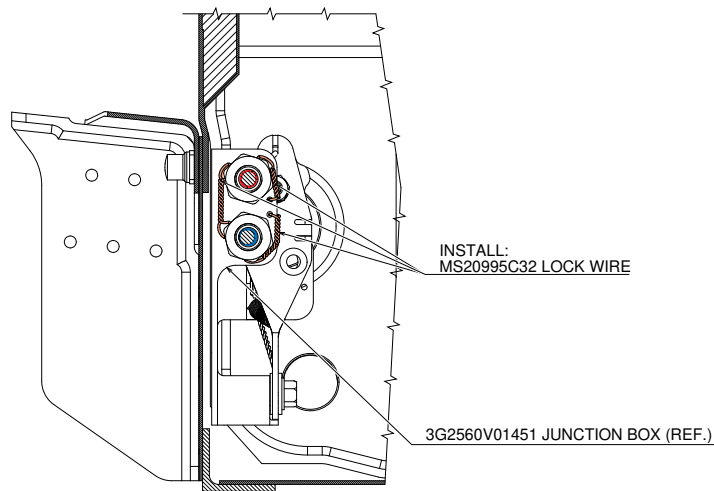
**VIEW N**  
STRUCTURES AND SYSTEMS ARE PARTIALLY  
OMITTED FOR BETTER CLARITY PURPOSE

**Figure 42**



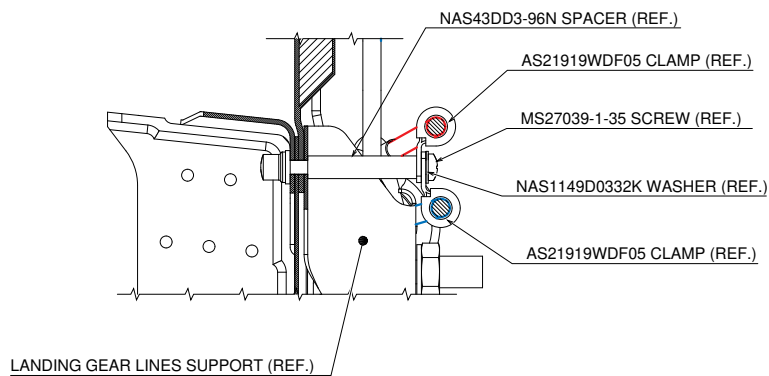
**SECTION R-R**

STRUCTURES AND SYSTEMS ARE PARTIALLY  
OMITTED FOR BETTER CLARITY PURPOSE



**SECTION U-U**

STRUCTURES AND SYSTEMS ARE PARTIALLY  
OMITTED FOR BETTER CLARITY PURPOSE



**SECTION T-T**

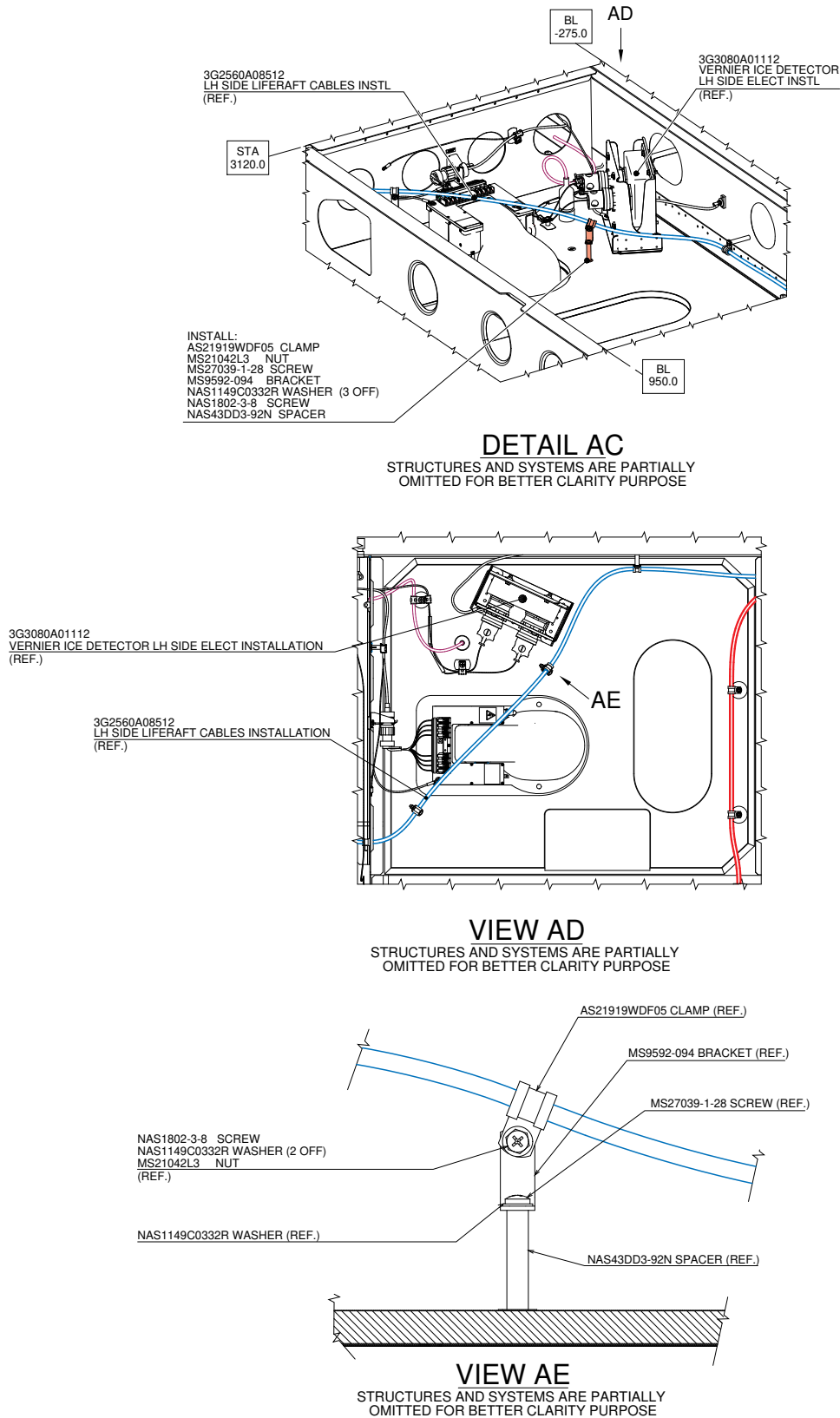
(TYP. 2 PLCS)

STRUCTURES AND SYSTEMS ARE PARTIALLY  
OMITTED FOR BETTER CLARITY PURPOSE

**Figure 43**

**3G2560P00312**  
**VERNIER ICE DETECTOR**  
**VARIANT (DART)**

(VALID ONLY FOR HELICOPTERS EQUIPPED WITH VERNIER ICE DETECTOR P/N 3G3080A01112)

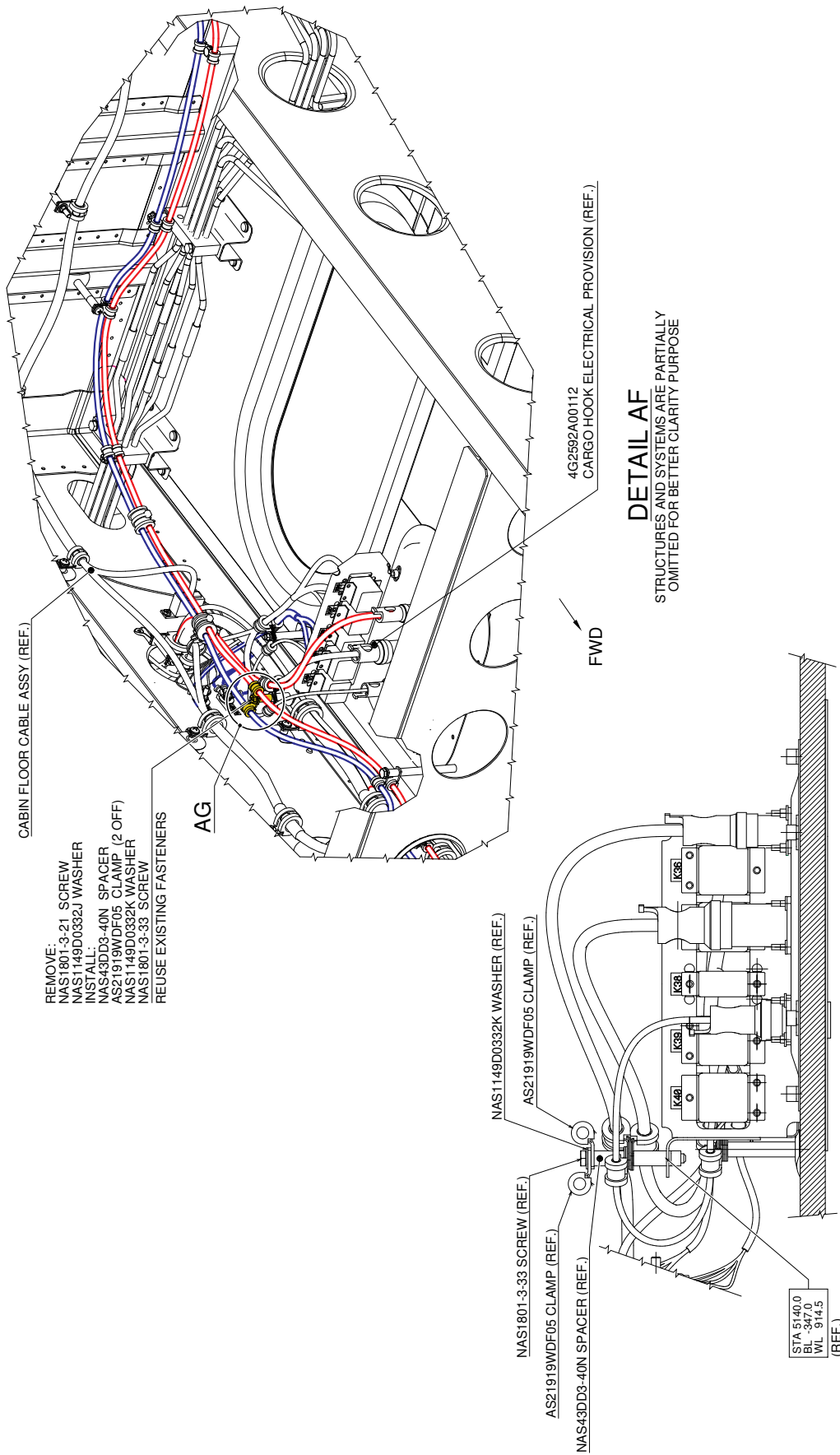


**Figure 44**

**3G2560P00412**

**CARGO HOOK VARIANT (DART)**

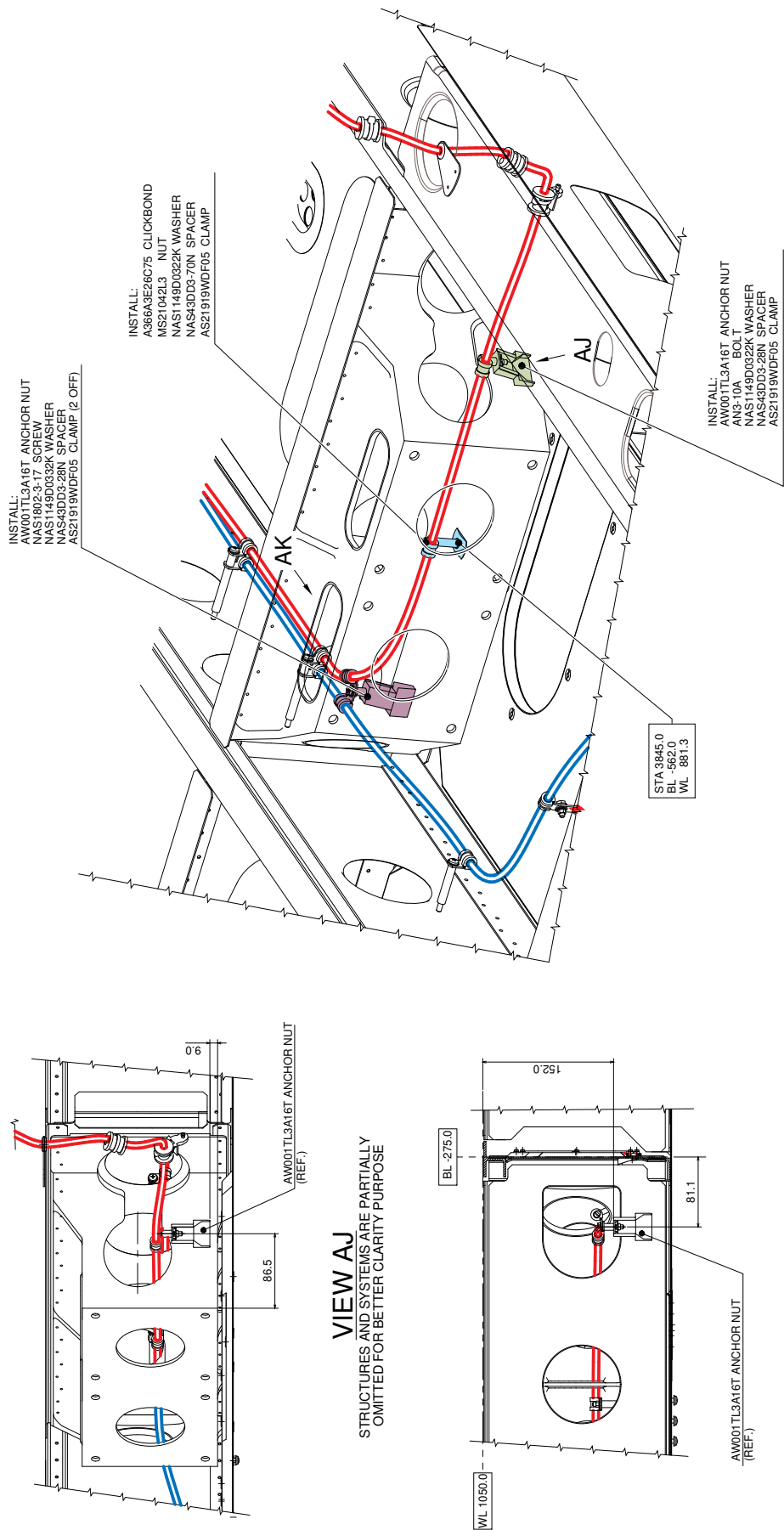
(VALID ONLY FOR HELICOPTERS EQUIPPED WITH CARGO HOOK COMPLETE PROVISION P/N 4G2592A00312)



**Figure 45**

**3G2560P01012**  
**LH SIDE AVCS VARIANT**  
**CABLES INSTL (DART)**

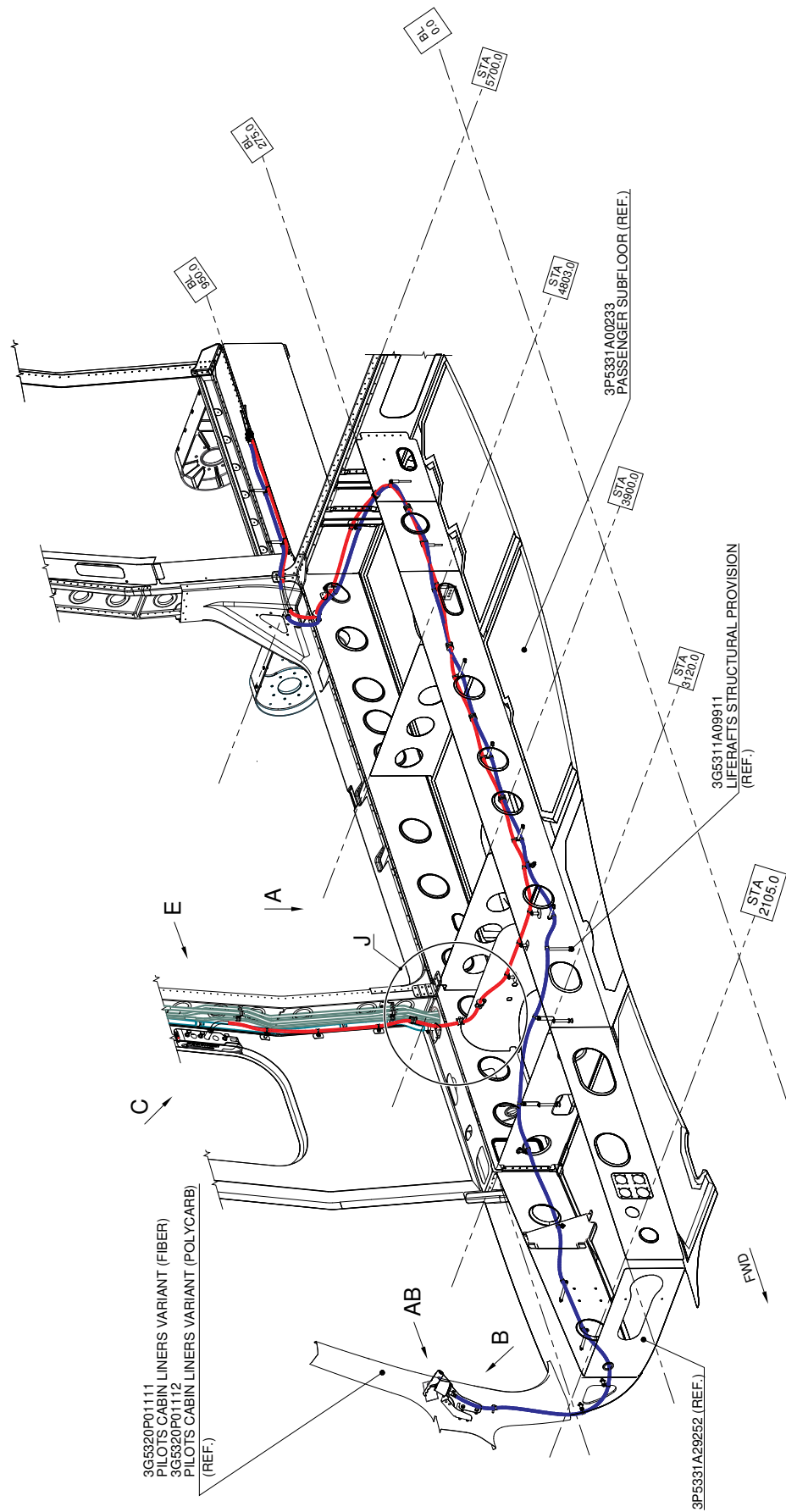
(VALID ONLY FOR HELICOPTERS EQUIPPED WITH KIT AVCS P/N 4G1830F00411/4G1830F00511/4G1830F00512)



**Figure 46**

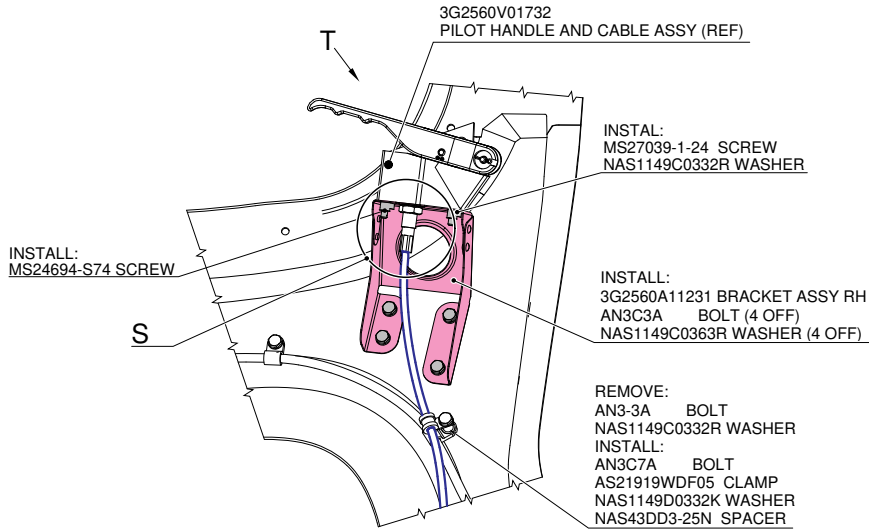


**3G2560A08612**  
**RH SIDE LIFERAFT**  
**CABLES INSTALLATION**



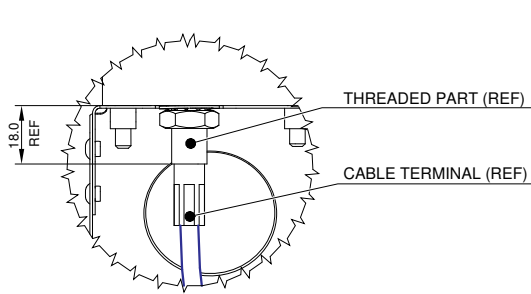
**PRINCIPAL VIEW**

**Figure 48**



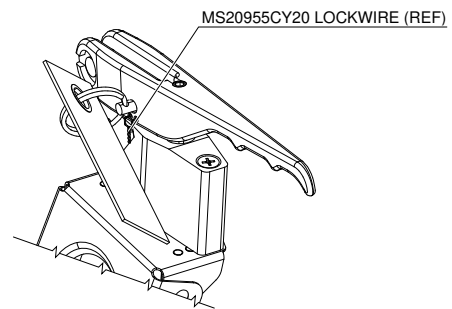
**VIEW B**

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE



**DETAIL S**

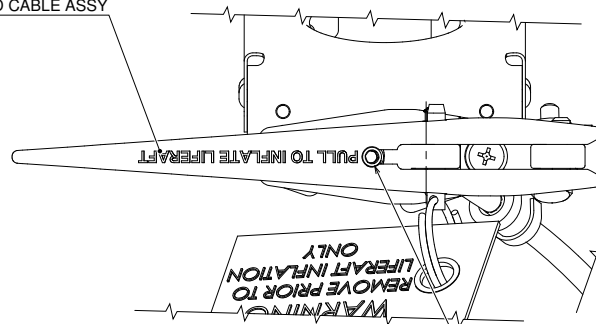
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE



**VIEW T**

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

3G2560V01732 PILOT HANDLE AND CABLE ASSY (REF)



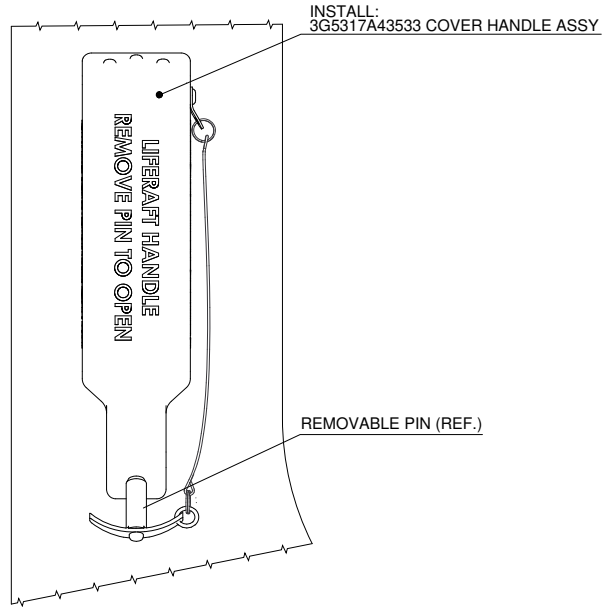
AFTER THE INSTALLATION OF LIFE RAFT HANDLES, APPLY A SMALL AMOUNT OF LOCTITE 242 ON THE GRAIN.

**VIEW AB**

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

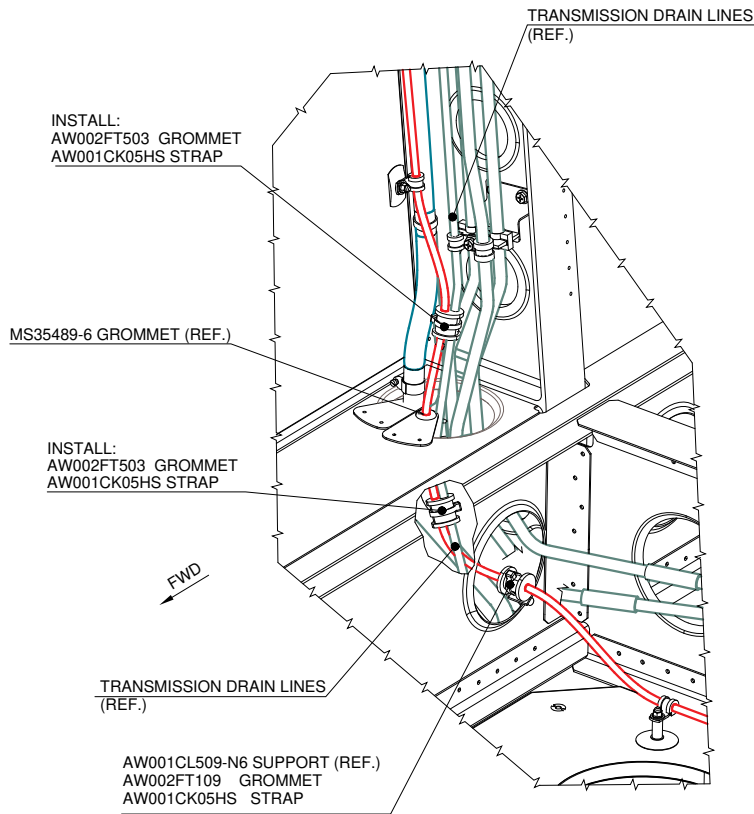
**Figure 49**





**VIEW C**

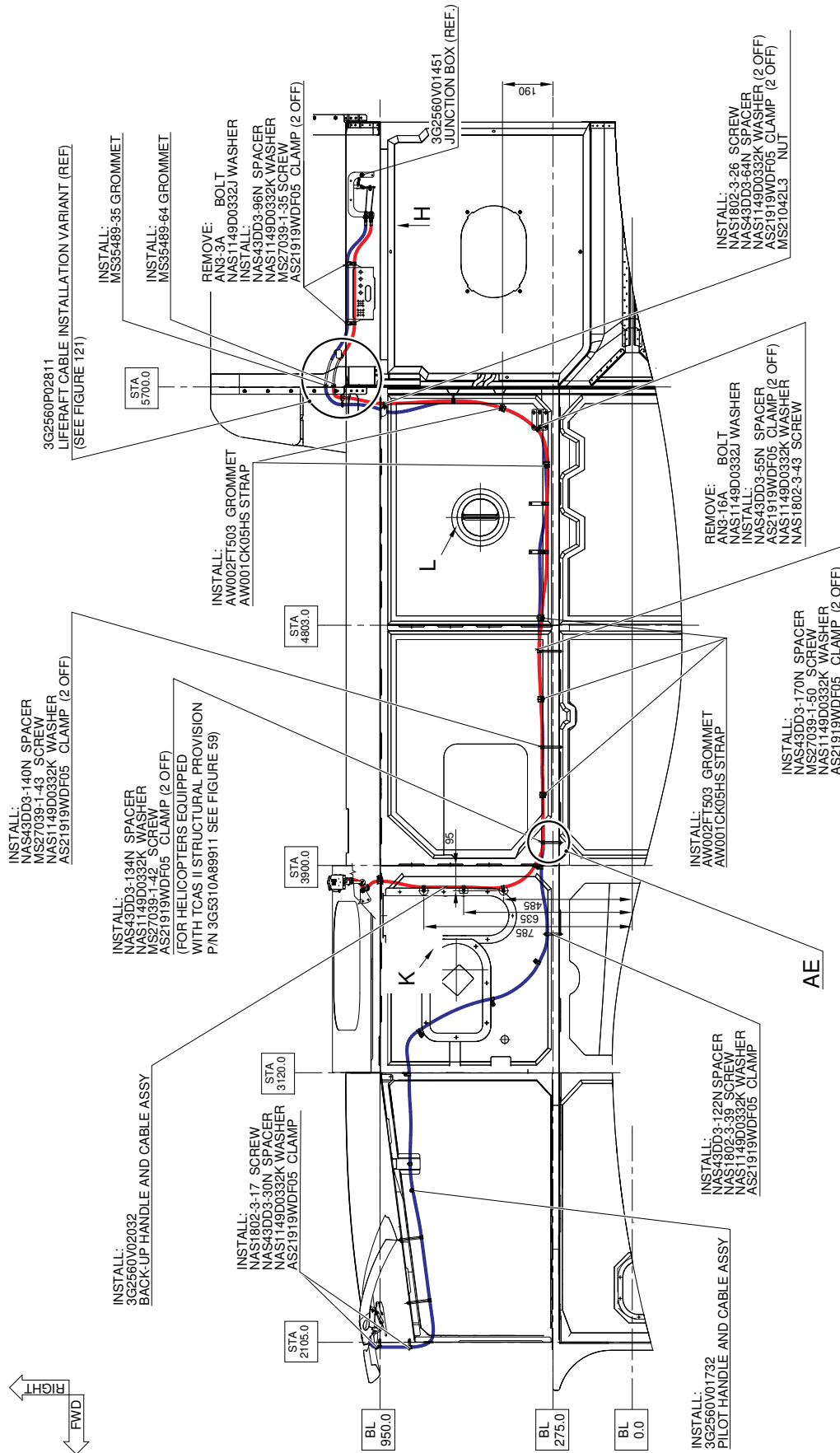
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE



**DETAIL J**

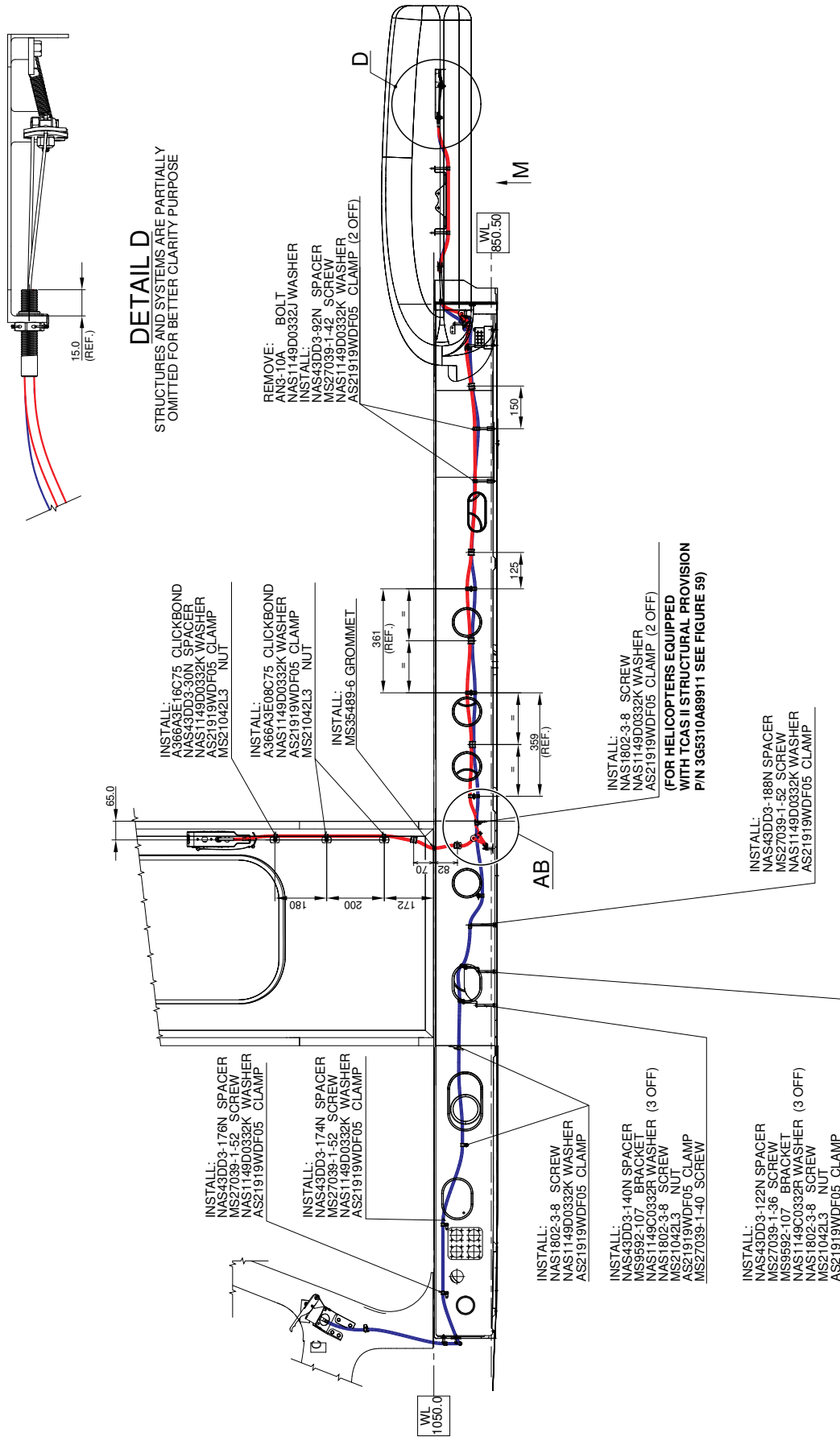
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

**Figure 50**



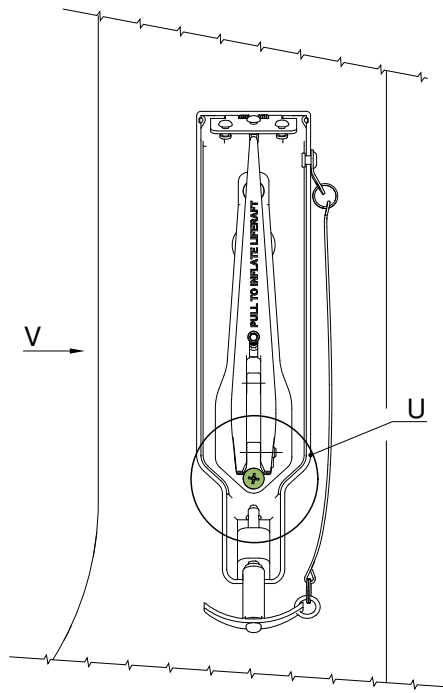
**VIEW A**  
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

**Figure 51**



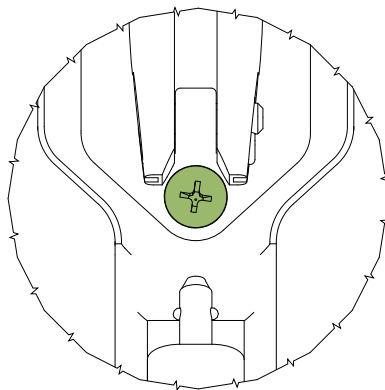
**LATERAL VIEW**  
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

**Figure 52**



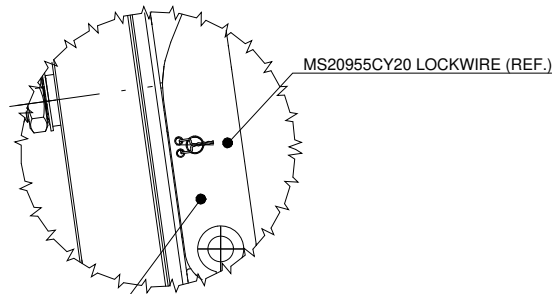
**VIEW F**

PART OF THE COVER NOT SHOWN FOR CLARITY.



**DETAIL U**

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

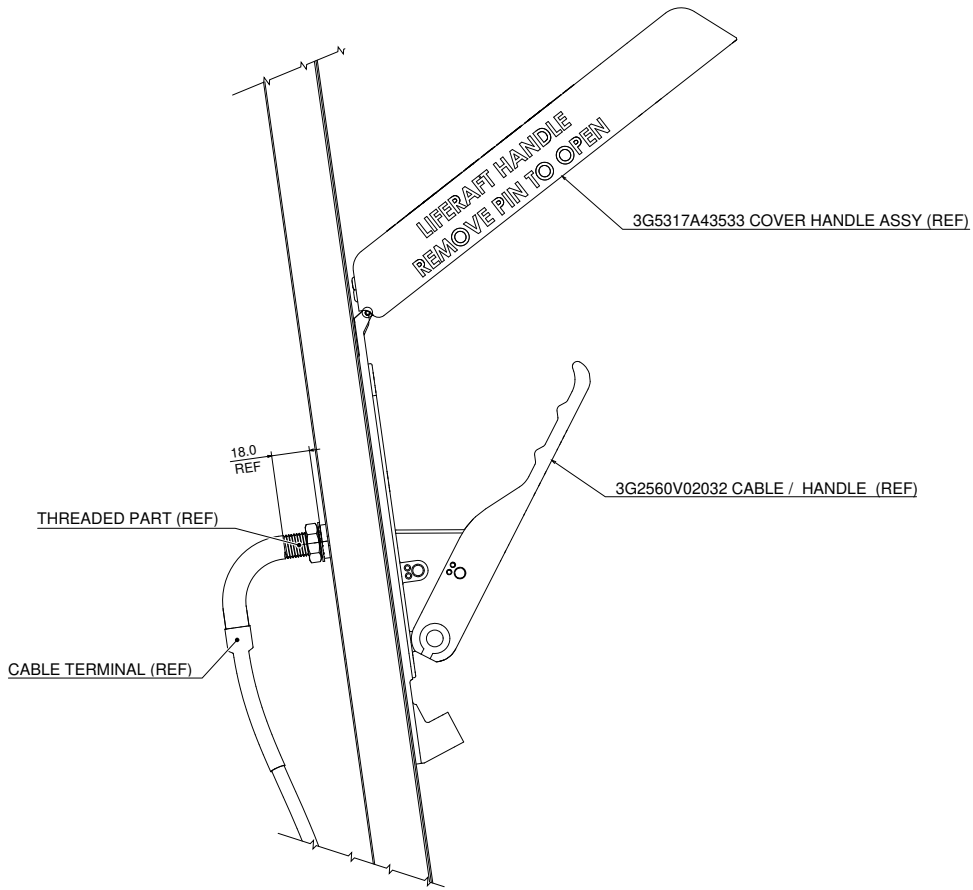


3G2560V02031 BACK-UP HANDLE AND CABLE ASSY (REF.)

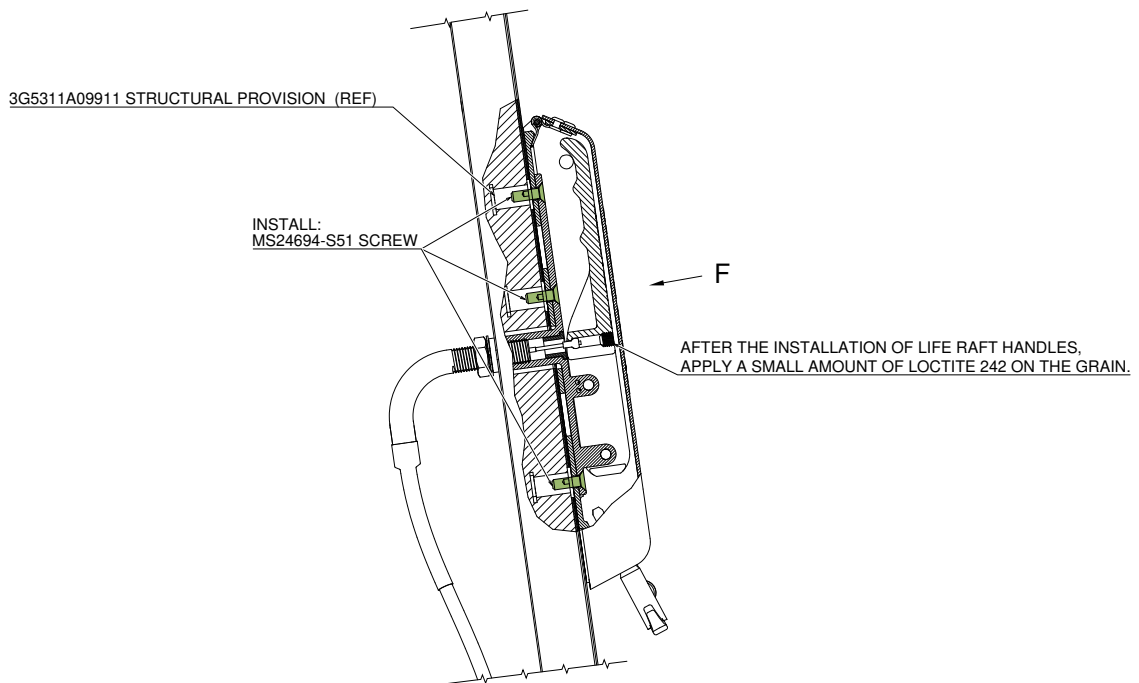
**VIEW V**

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

**Figure 53**



**VIEW E**  
(OPEN COVER)

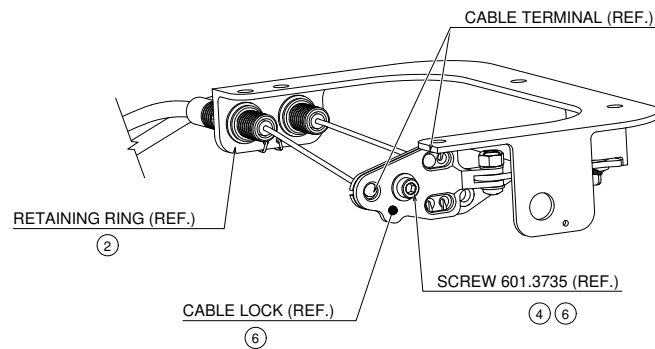


**VIEW E**  
STRUCTURES AND SYSTEMS ARE PARTIALLY  
OMITTED FOR BETTER CLARITY PURPOSE

**Figure 54**

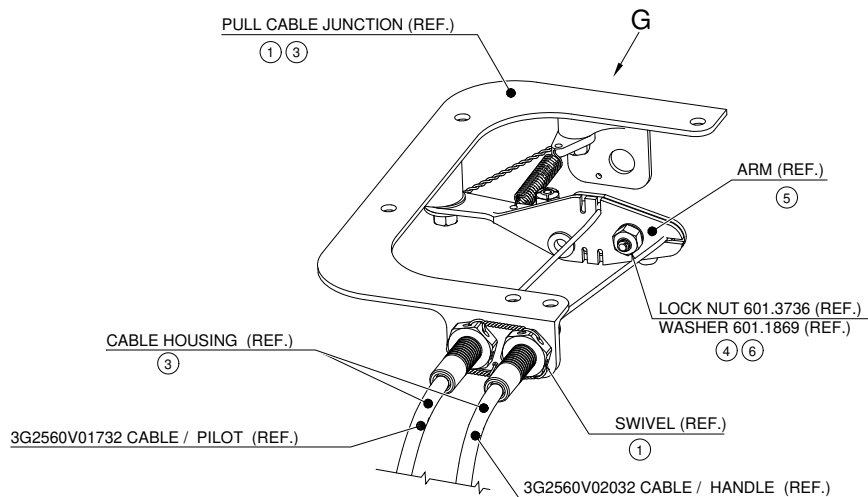
**PROCEDURE FOR INSTALLATION:**

1. INTRODUCE SWIVEL UNTIL CONTACT WITH THE SURFACE OF PULL CABLE JUNCTION.
2. INSTALL RETAINING RING IN SLOT OF SWIVEL.
3. INSERT CABLE IN PULL CABLE JUNCTION POSITIONING HOUSING IN ACCORDANCE WITH DIMENSION 15.0 mm (DETAIL C, SHT 04).
4. REMOVE LOCK NUT 601.3736 AND SCREW 601.3735, THEN ROTATE CABLE LOCK.
5. PLACE CABLE TERMINALS IN RELEVANT SLOTS OF JUNCTION BOX ARM.
6. CLOSE CABLE LOCK, TIGHTEN LOCK NUT 601.3736 AND SCREW 601.3735 TO 2.24 Nm TORQUE.



**VIEW G**

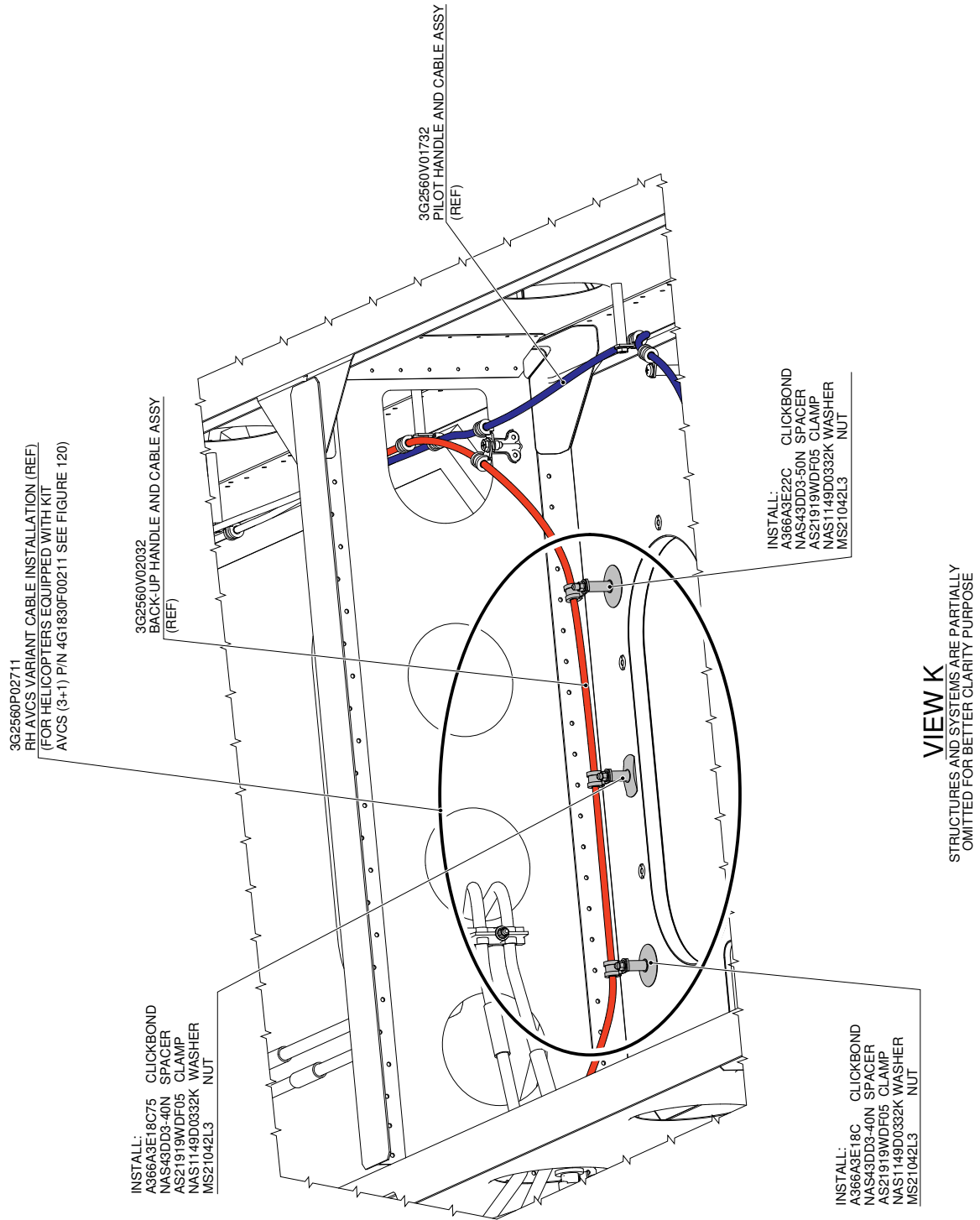
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE



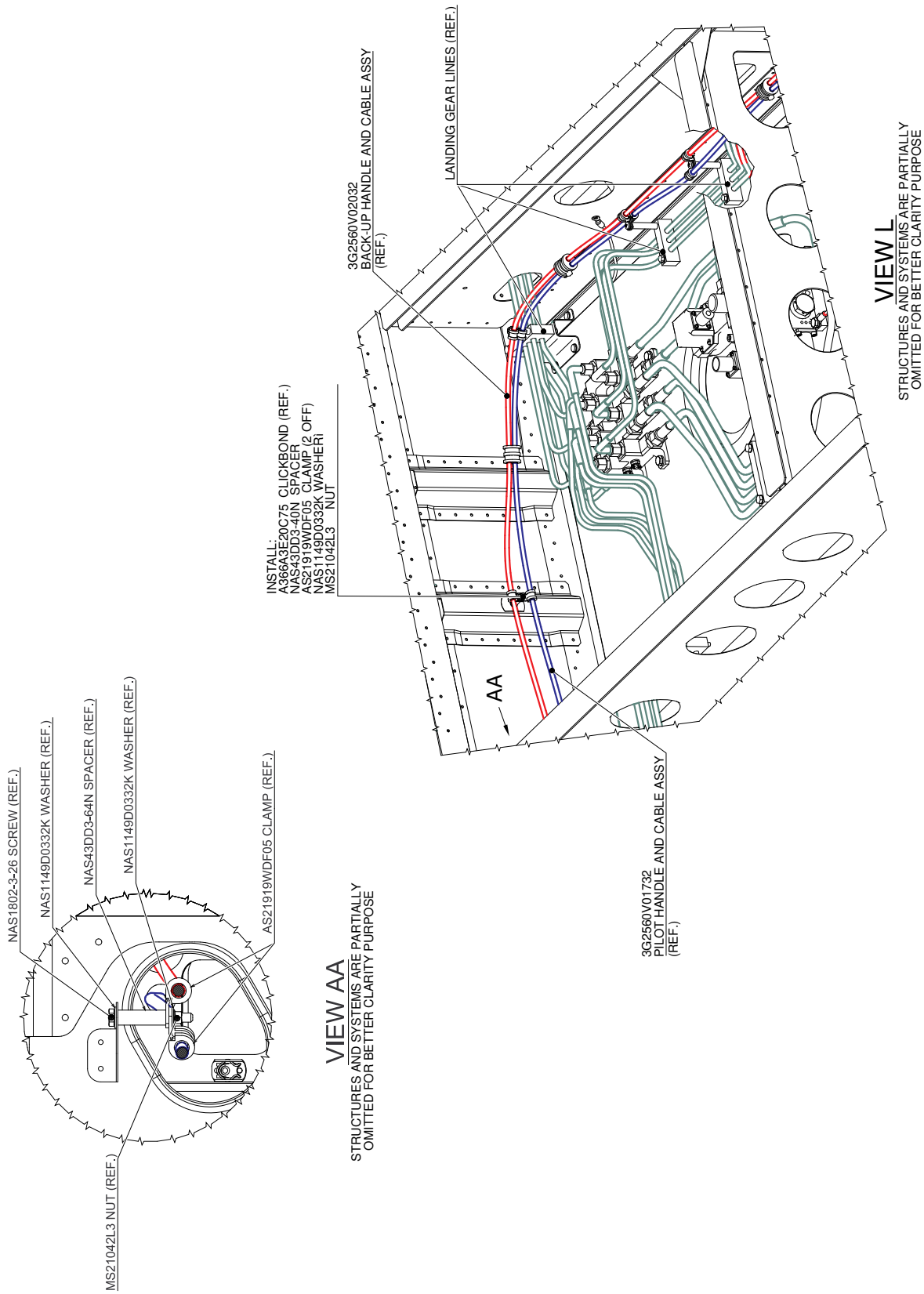
**VIEW H**

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

**Figure 55**

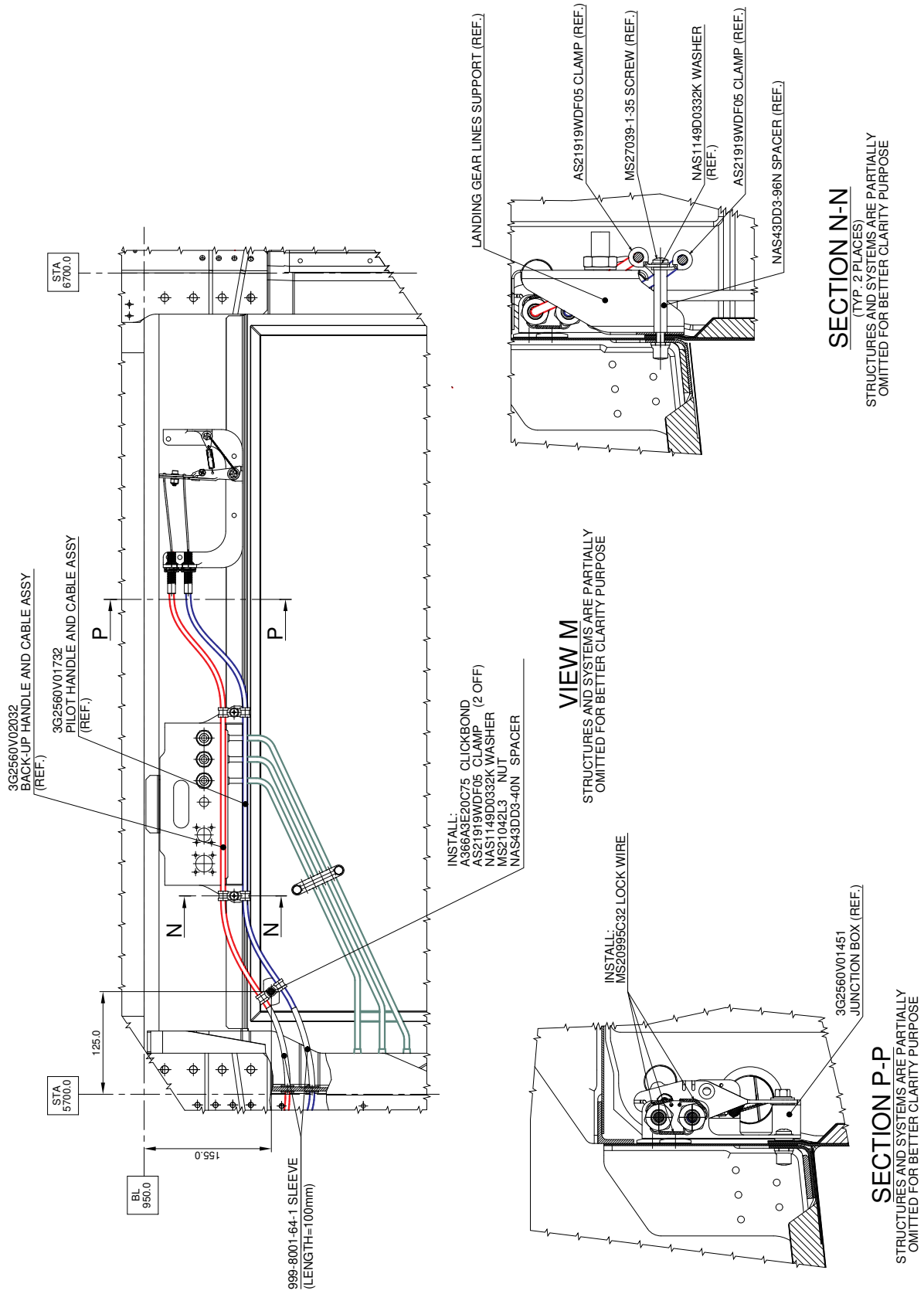


**Figure 56**



**Figure 57**

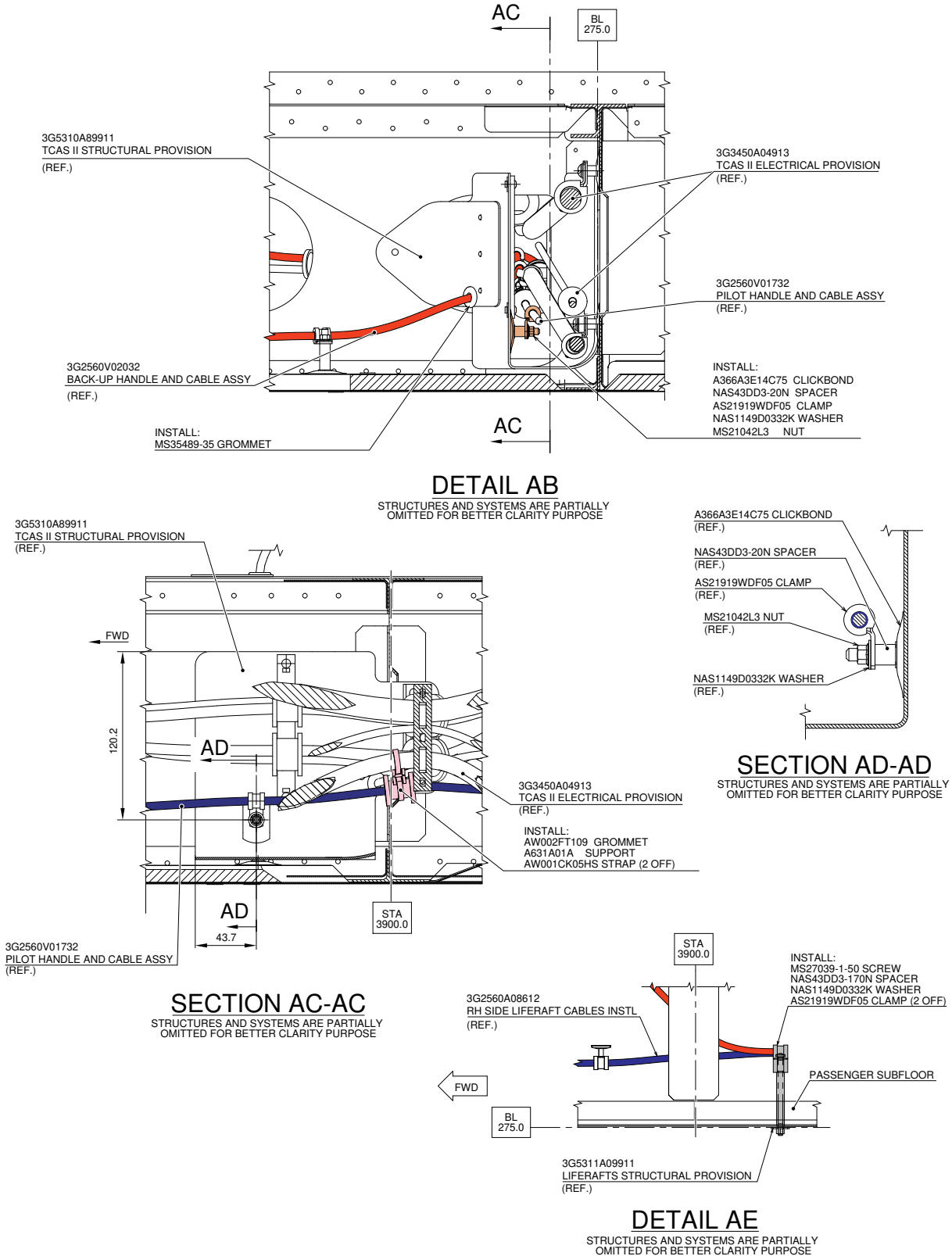




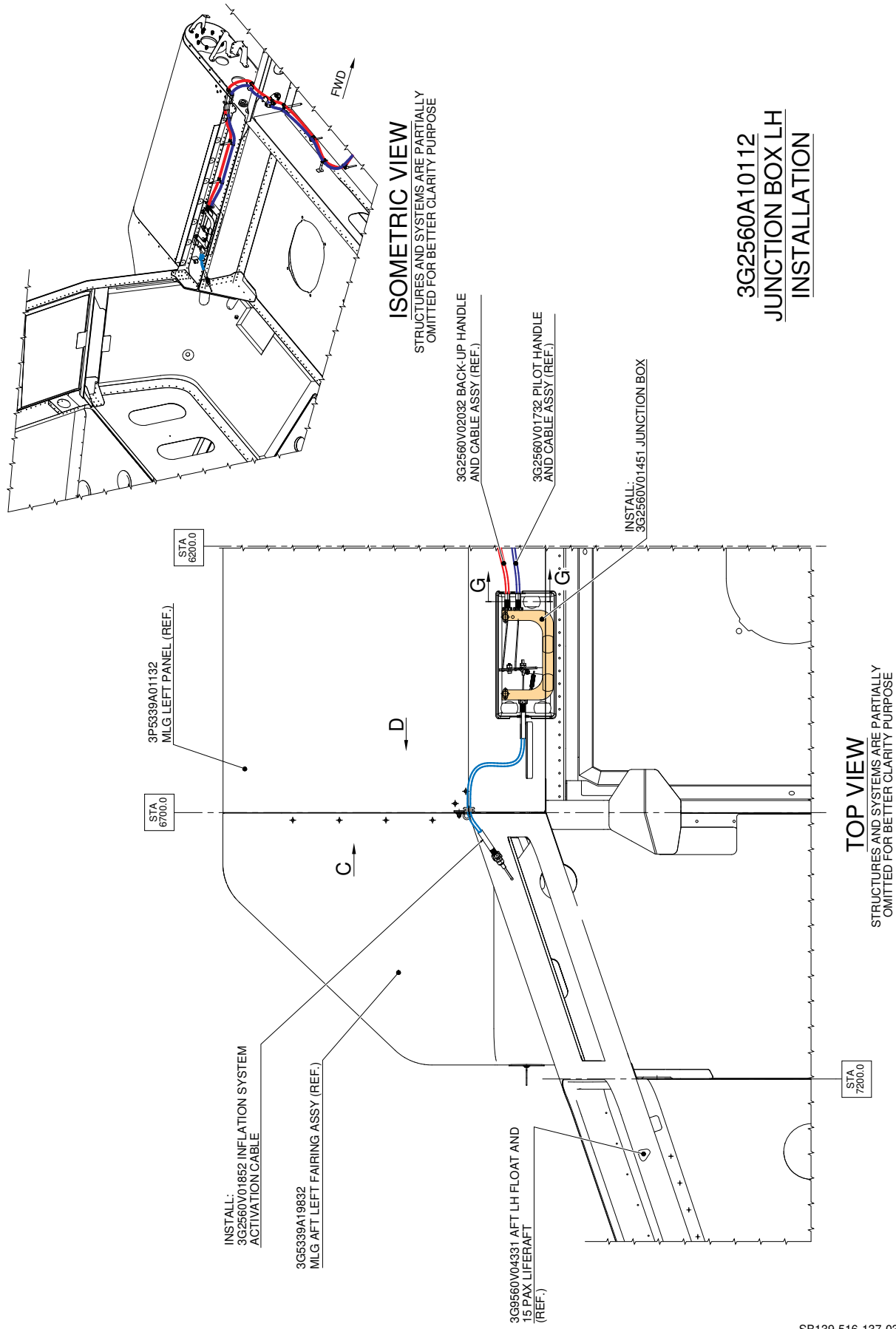
**Figure 58**

**3G2560P01212**  
**RH CABLES INSTALLATION**  
**VARIANT TCAS II (DART)**

(VALID ONLY FOR HELICOPTERS EQUIPPED WITH TCAS II STRUCTURAL PROVISION P/N 3G5310A89911)

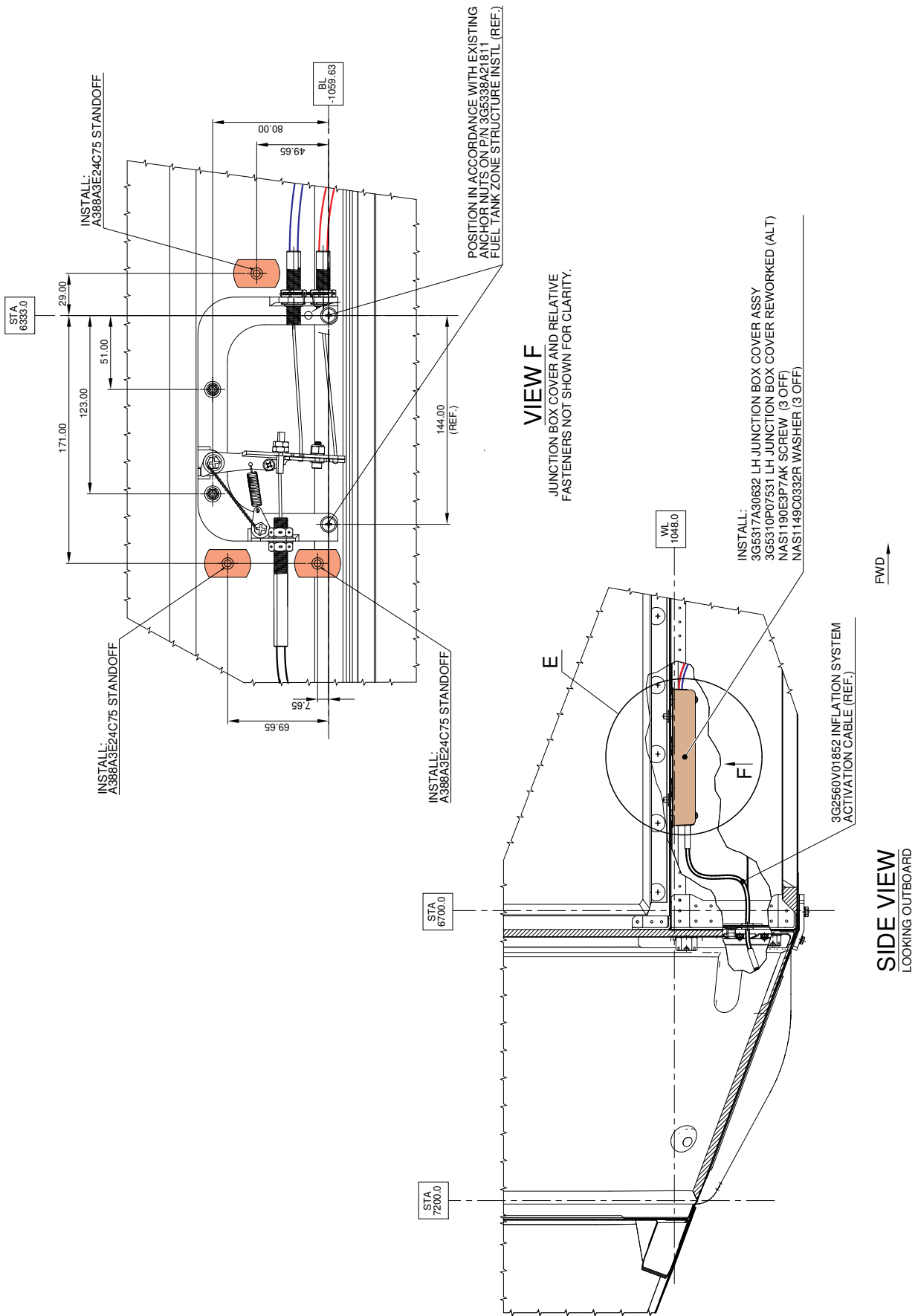


**Figure 59**



SB139-516-137-03

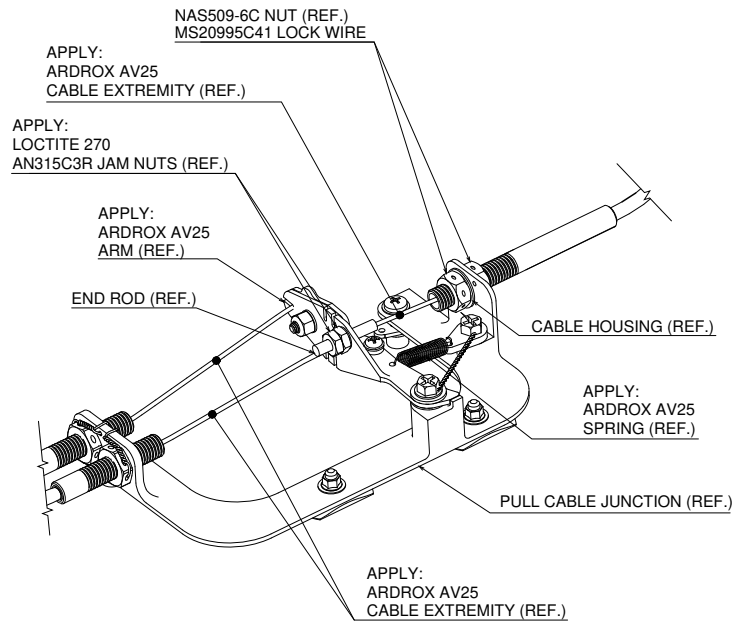
**Figure 60**



**Figure 61**

### PROCEDURE FOR INSTALLATION:

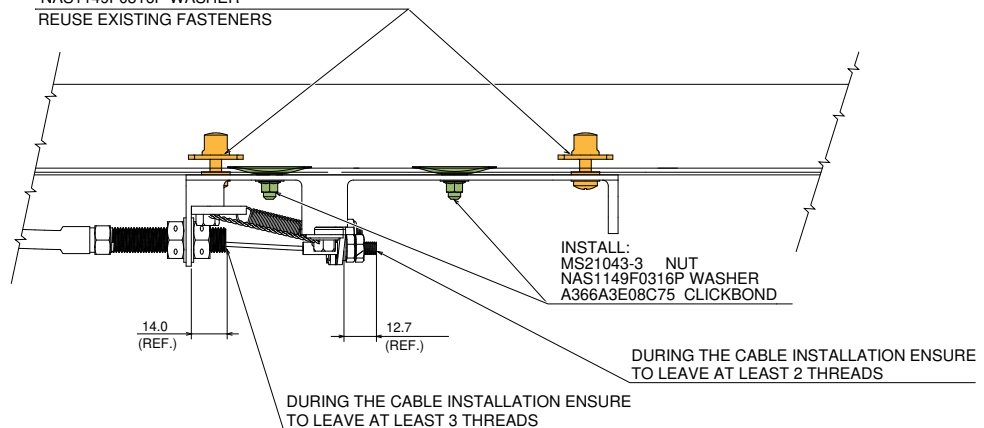
1. REMOVE A NUT NAS509-6C FROM CABLE 3G2560V01852.
2. INTRODUCE CABLE HOUSING UNTIL CONTACT BETWEEN  
PULL CABLE NUT AND CABLE JUNCTION.
3. RE-INSTALL THE NUT PREVIOUSLY REMOVED.
4. REMOVE TWO JAM NUTS AN315C3R FROM THE CABLE END ROD.
5. INSERT CABLE ROD END IN THE JUNCTION BOX ARM SLOT.
6. JOIN THE TWO JAM NUTS AN315C3R TO THE END ROD.
7. POSITION THE CABLE ROD END AND THE CABLE HOUSING ACCORDING TO DETAIL E.
8. TIGHTEN JAM NUTS TO 1.4 ; 1.7 NM.
9. TIGHTEN CABLE HOUSING NUTS NAS509-6C TO 19.8 NM.



### ISOMETRIC VIEW

JUNCTION BOX COVER AND RELATIVE  
FASTENERS NOT SHOWN FOR CLARITY.

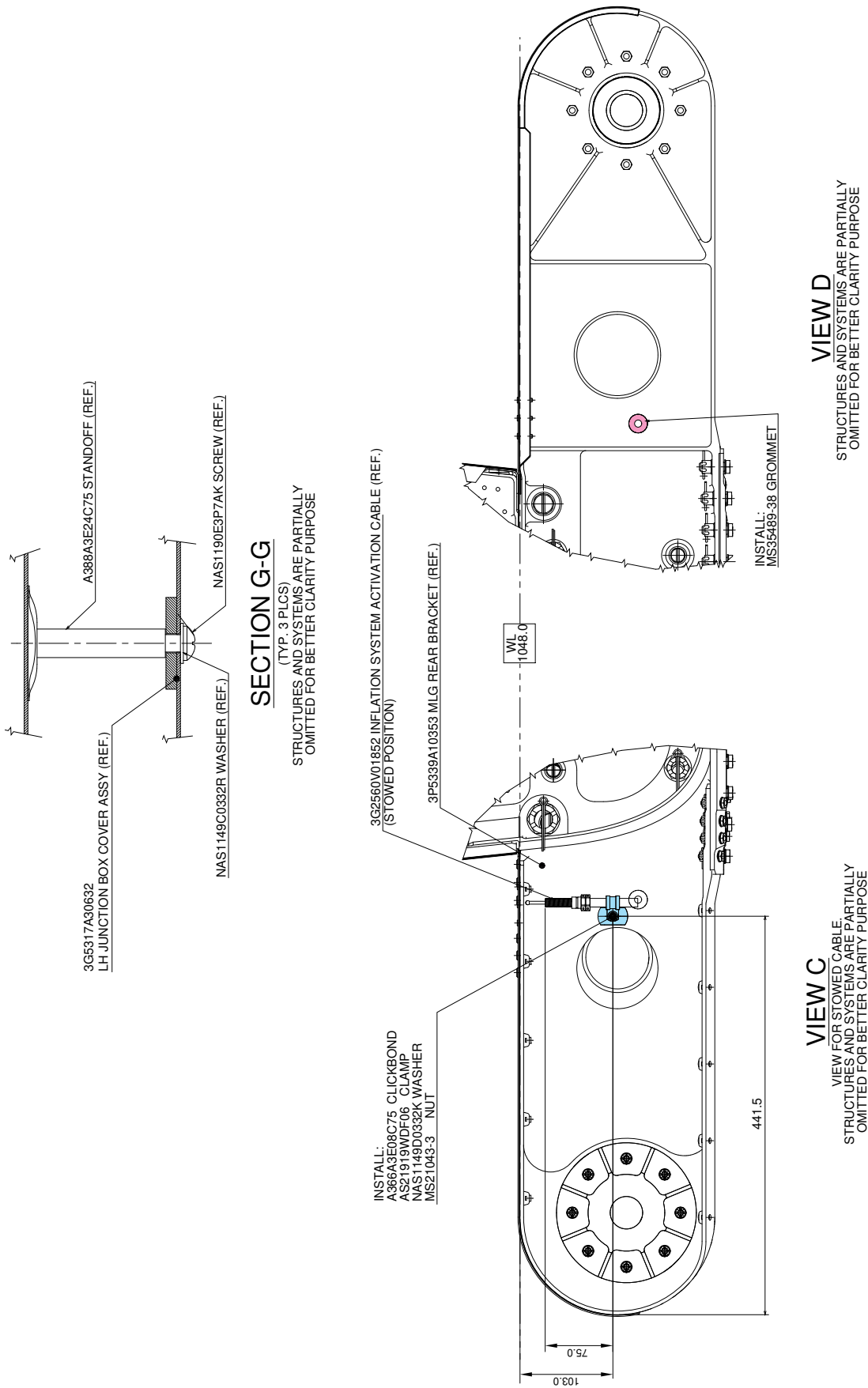
- REMOVE:  
MS27039-1-08 BOLT  
NAS1149F0316P WASHER
- INSTALL:  
MS27039-1-10 BOLT  
NAS1149F0363P WASHER  
NAS1149F0316P WASHER
- REUSE EXISTING FASTENERS



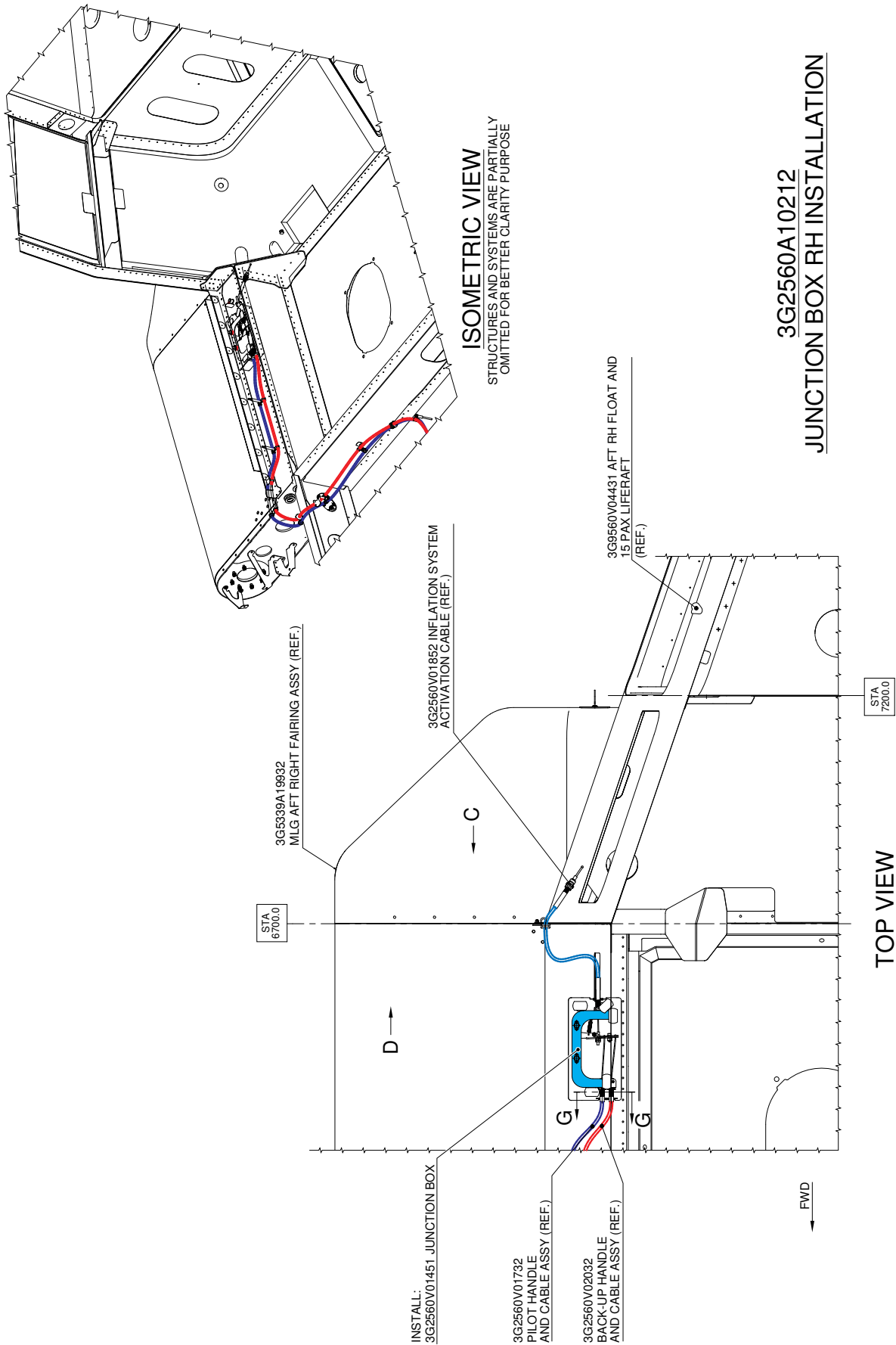
### DETAIL E

PART OF VIEW NOT SHOWN FOR CLARITY.

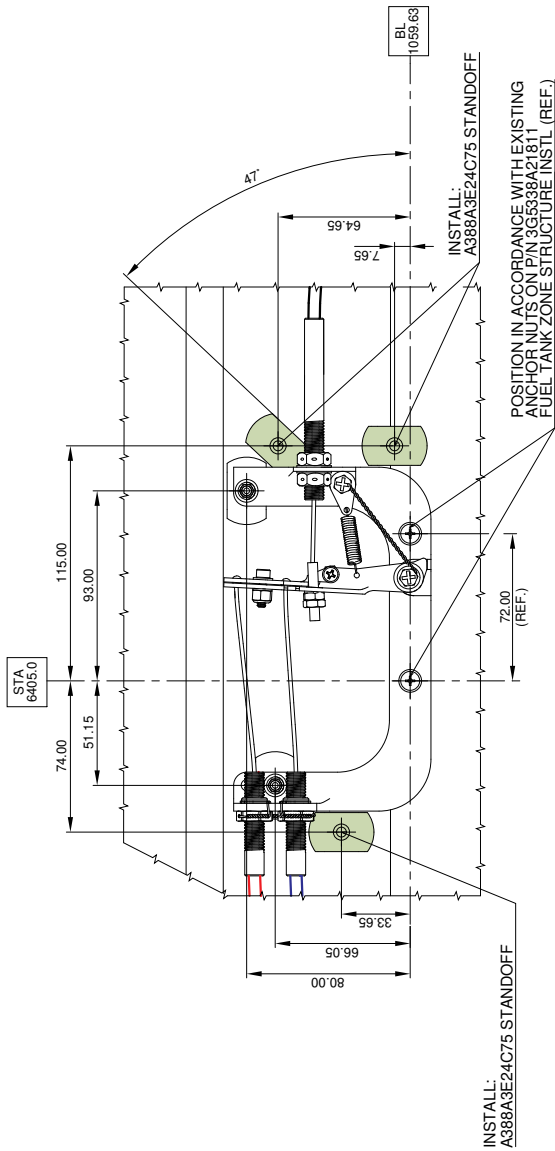
**Figure 62**



**Figure 63**

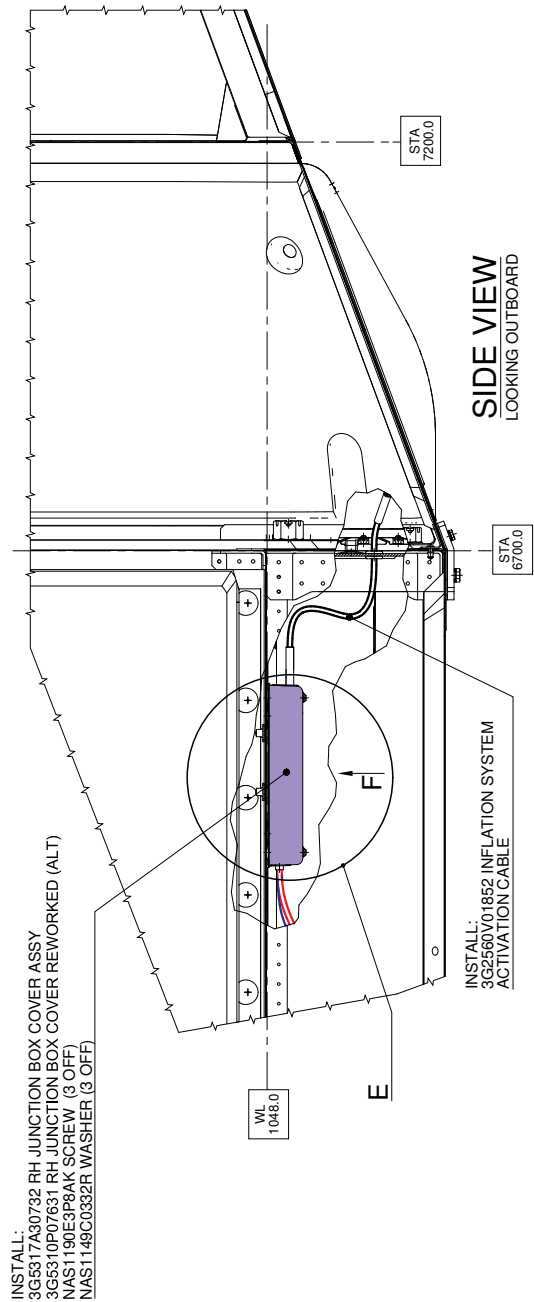


**Figure 64**



**VIEW F**

JUNCTION BOX AND RELATIVE STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

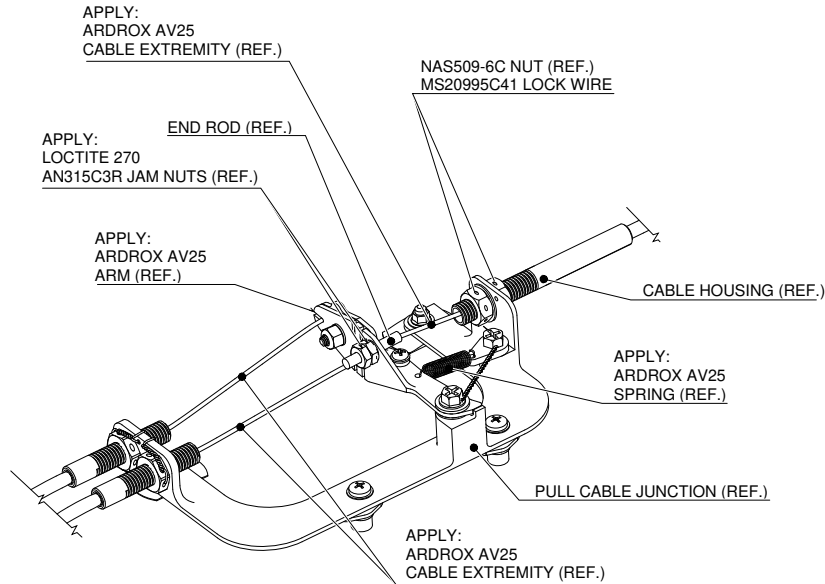


**Figure 65**



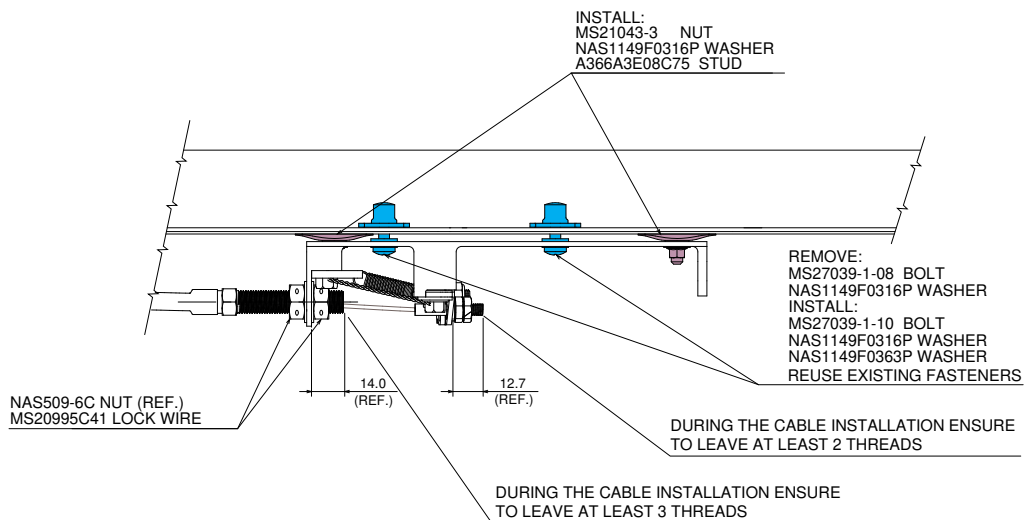
### PROCEDURE FOR INSTALLATION:

1. REMOVE A NUT NAS509-6C FROM CABLE 3G2560V01852.
2. INTRODUCE CABLE HOUSING UNTIL CONTACT BETWEEN PULL CABLE NUT AND CABLE JUNCTION.
3. RE-INSTALL THE NUT PREVIOUSLY REMOVED.
4. REMOVE TWO JAM NUTS AN315C3R FROM THE CABLE END ROD.
5. INSERT CABLE ROD END IN THE JUNCTION BOX ARM SLOT.
6. JOIN THE TWO JAM NUTS AN315C3R TO THE END ROD.
7. POSITION THE CABLE ROD END AND THE CABLE HOUSING ACCORDING TO DETAIL E.
8. TIGHTEN JAM NUTS TO 1.4 ; 1.7 NM.
9. TIGHTEN CABLE HOUSING NUTS NAS509-6C TO 19.8 NM.



### ISOMETRIC VIEW

JUNCTION BOX COVER AND RELATIVE FASTENERS NOT SHOWN FOR CLARITY.

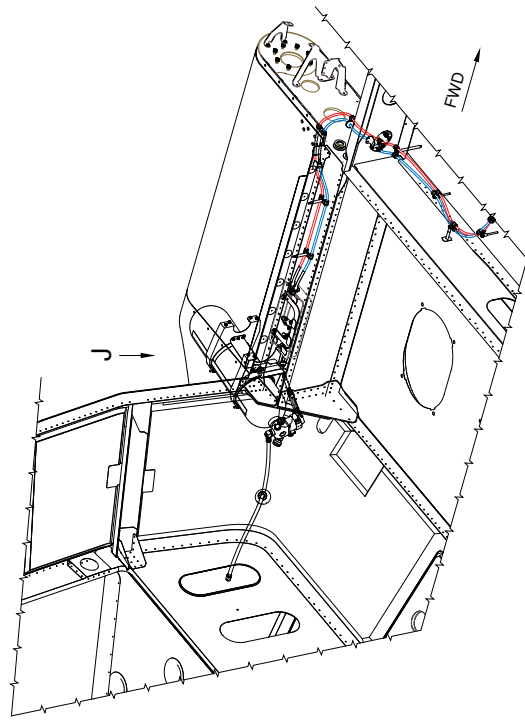


### DETAIL E

PART OF VIEW NOT SHOWN FOR CLARITY.  
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

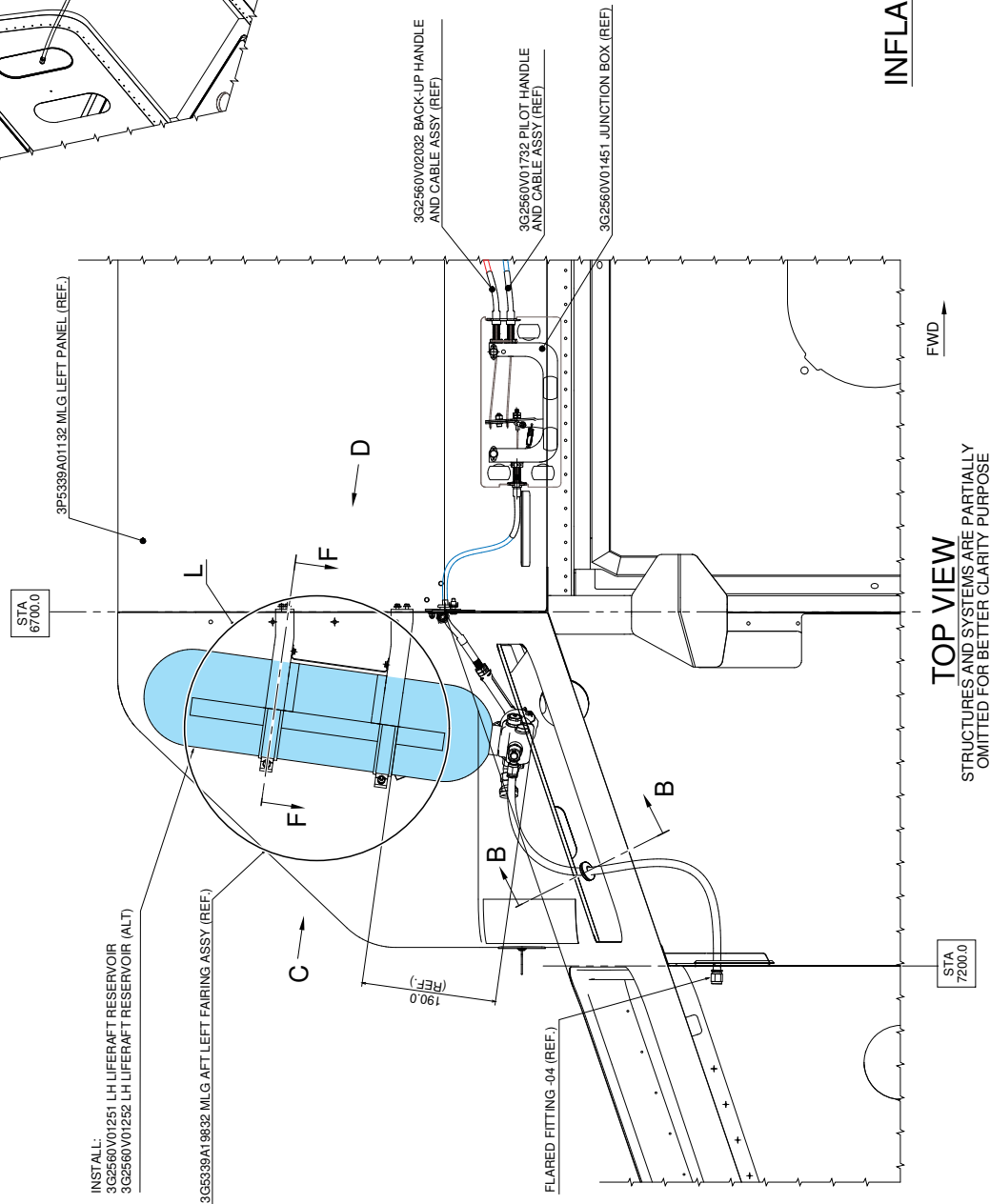
Figure 66





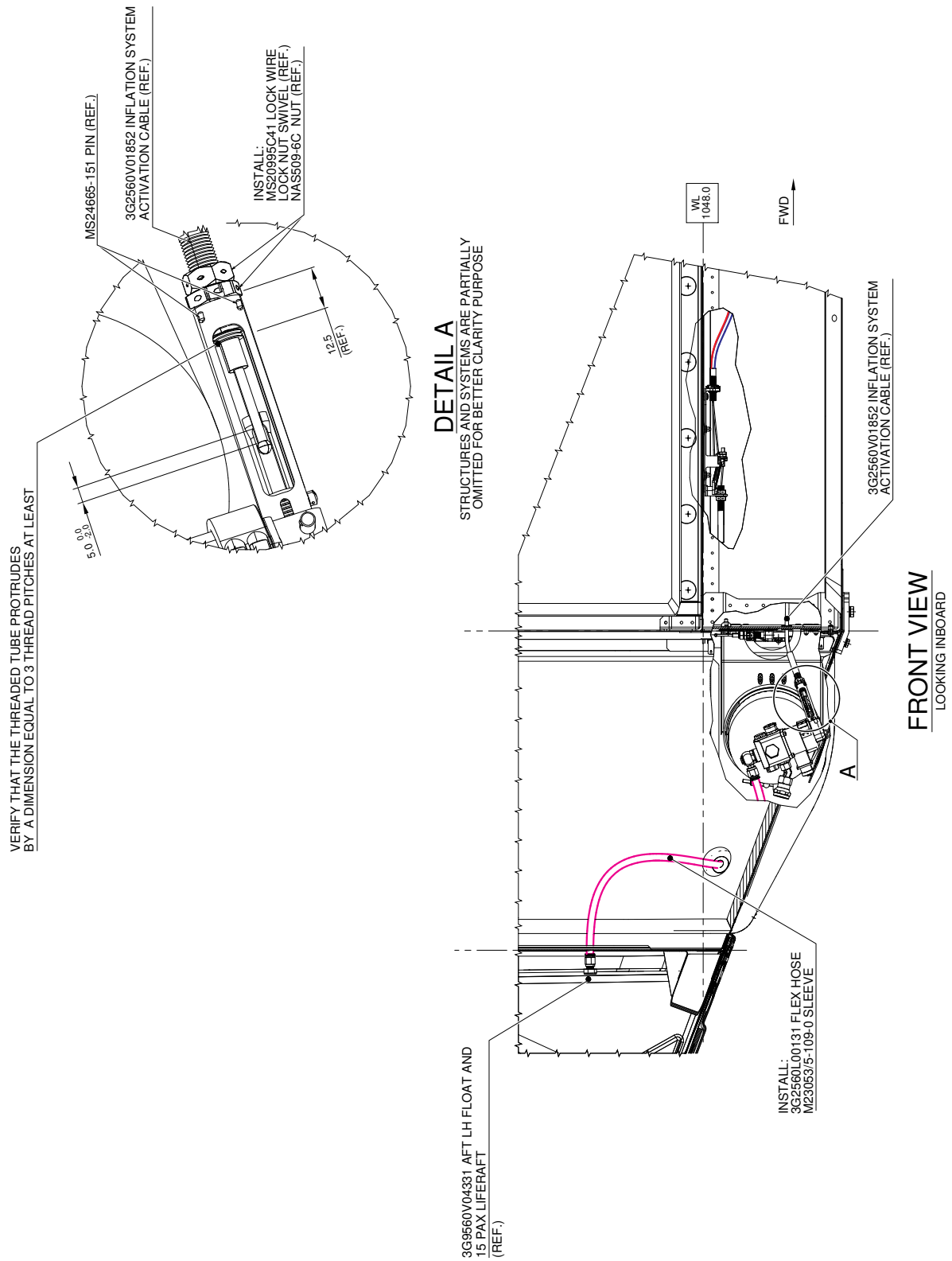
**ISOMETRIC VIEW**  
STRUCTURES AND SYSTEMS ARE PARTIALLY  
OMITTED FOR BETTER CLARITY PURPOSE

**3G2560A08811**  
**LH SIDE LIFE RAFT**  
**INFLATION SYSTEM INSTALLATION**



**TOP VIEW**  
STRUCTURES AND SYSTEMS ARE PARTIALLY  
OMITTED FOR BETTER CLARITY PURPOSE

**Figure 68**



**Figure 69**

S.B. N°139-516  
DATE: January 18, 2022  
REVISION: /

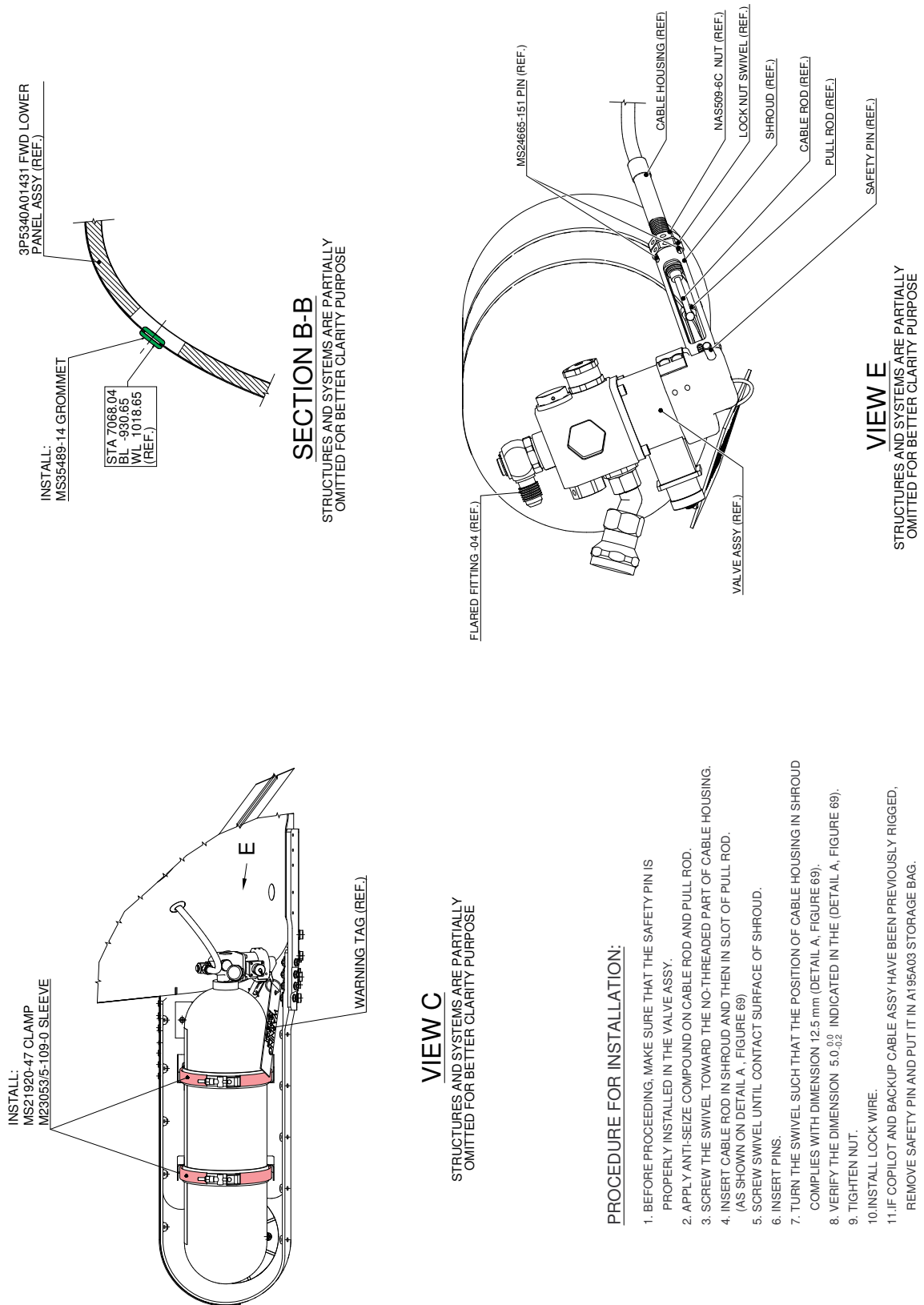
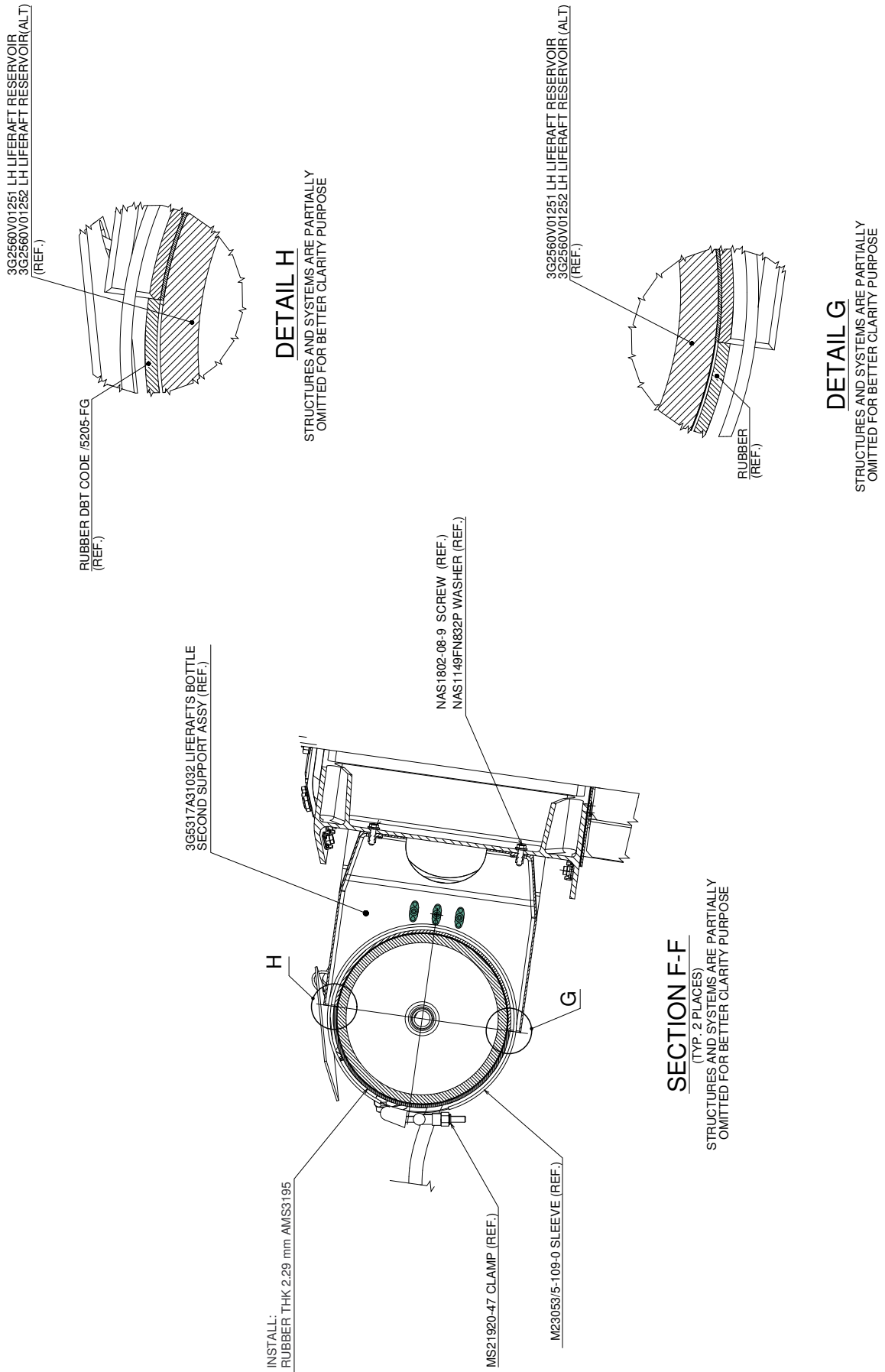
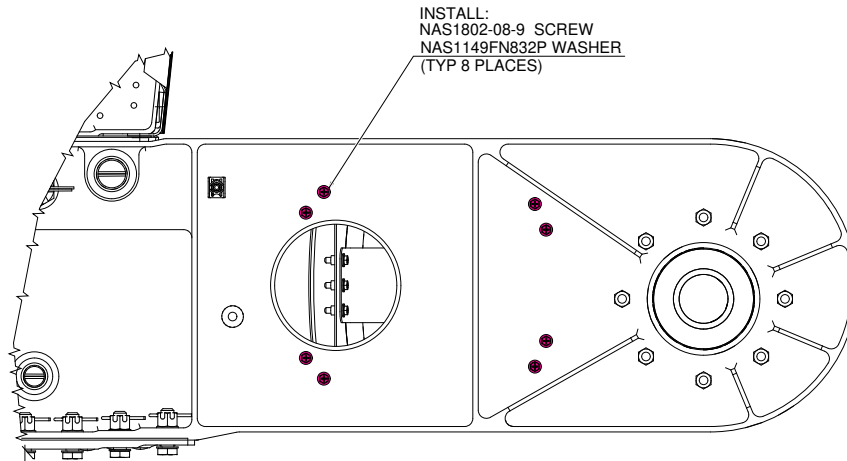
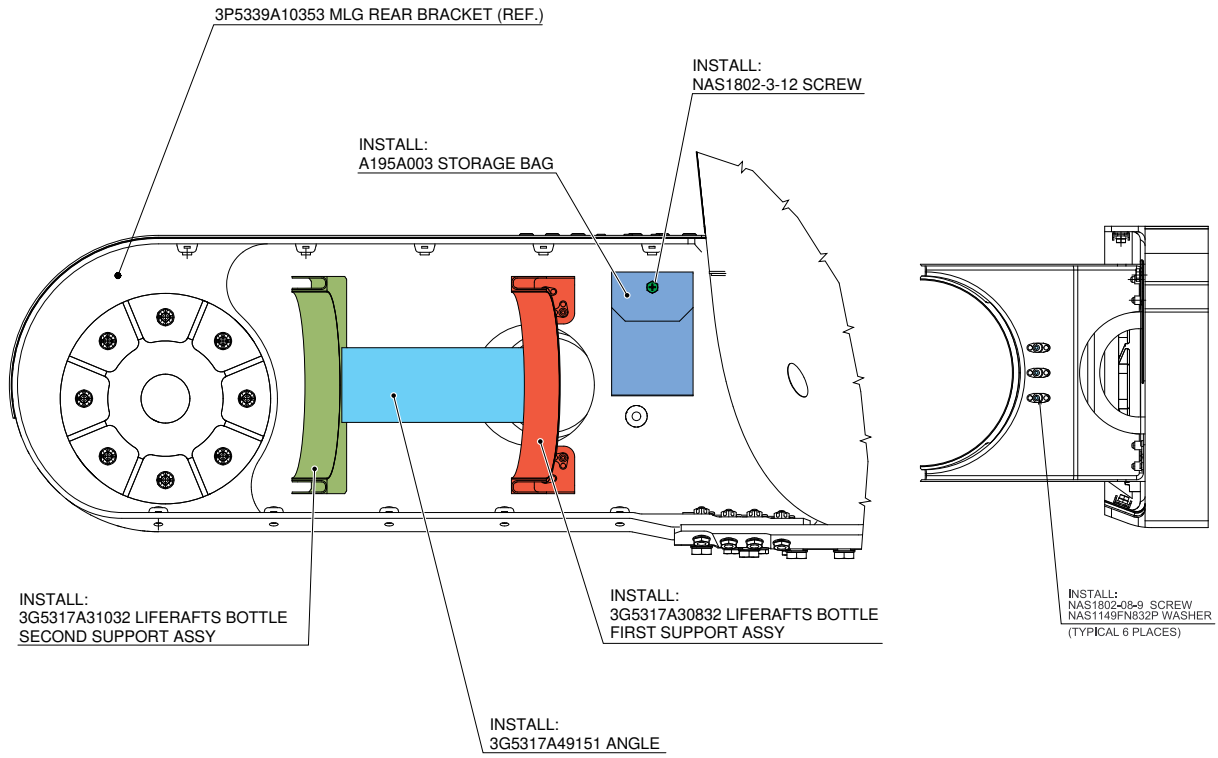


Figure 70

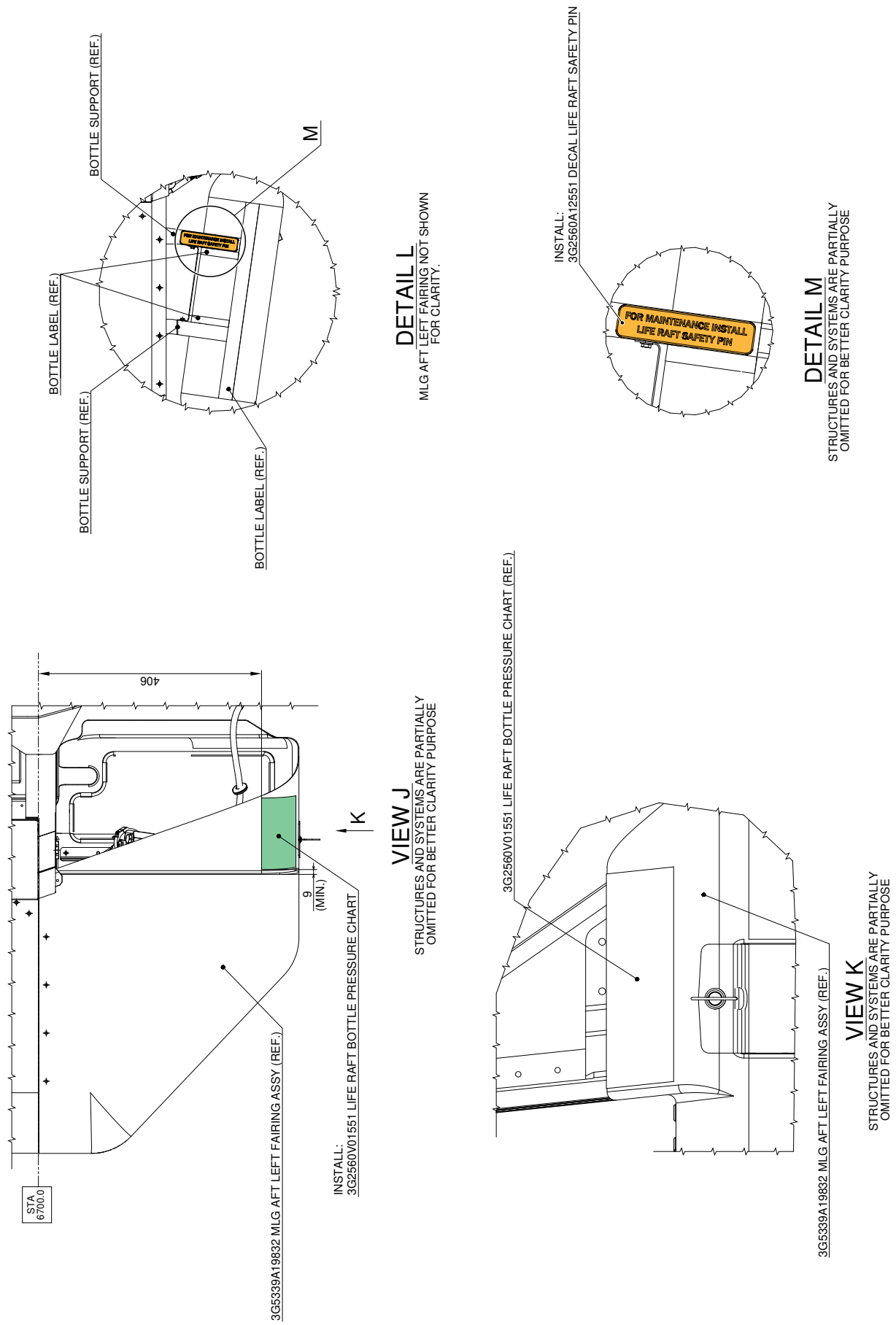


**Figure 71**



**VIEW D**  
FOR CLARITY LH LIFERAFT  
RESERVOIR HAS BEEN OMITTED

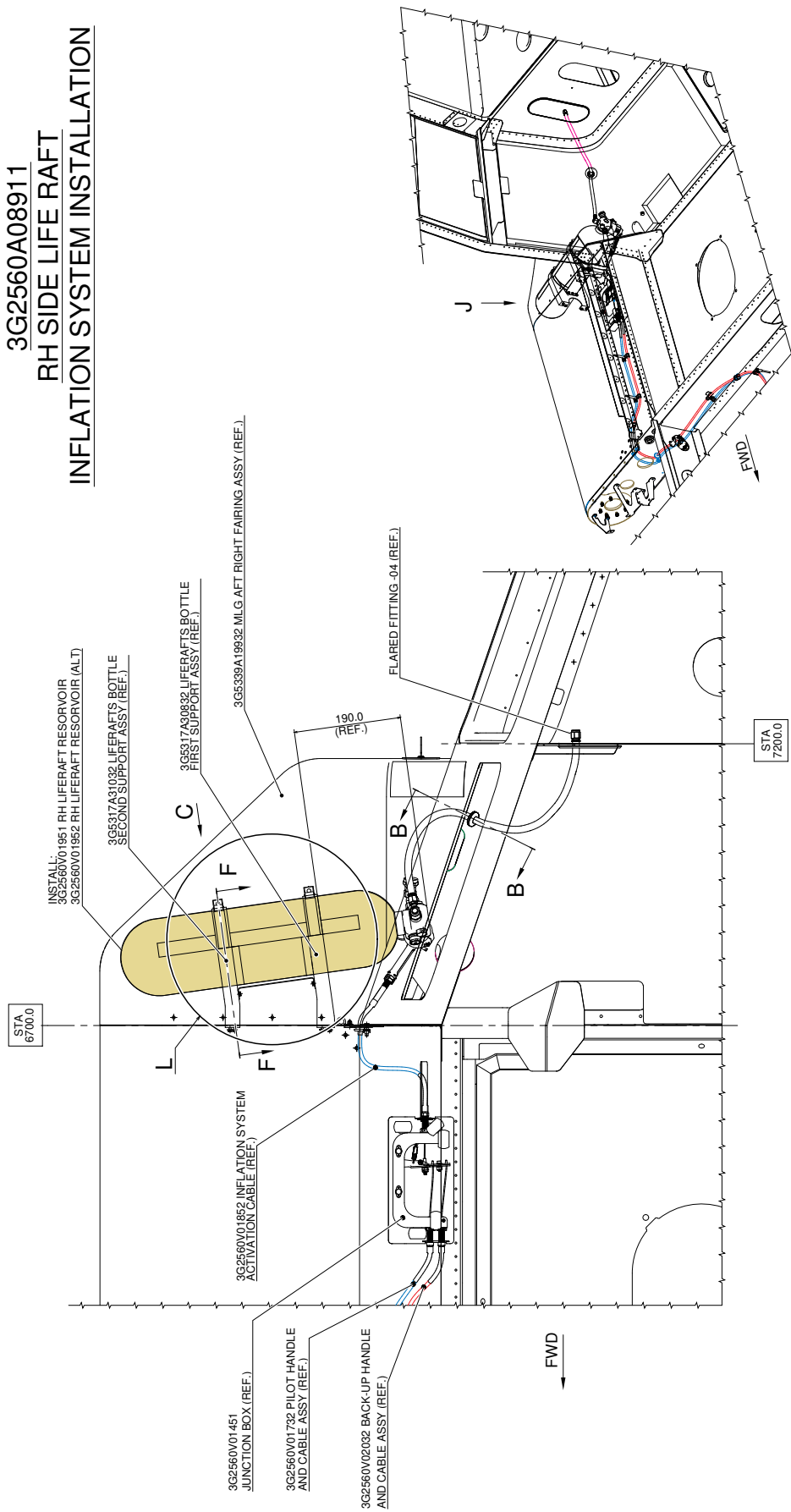
**Figure 72**



**Figure 73**



**3G2560A08911**  
**RH SIDE LIFE RAFT**  
**INFLATION SYSTEM INSTALLATION**



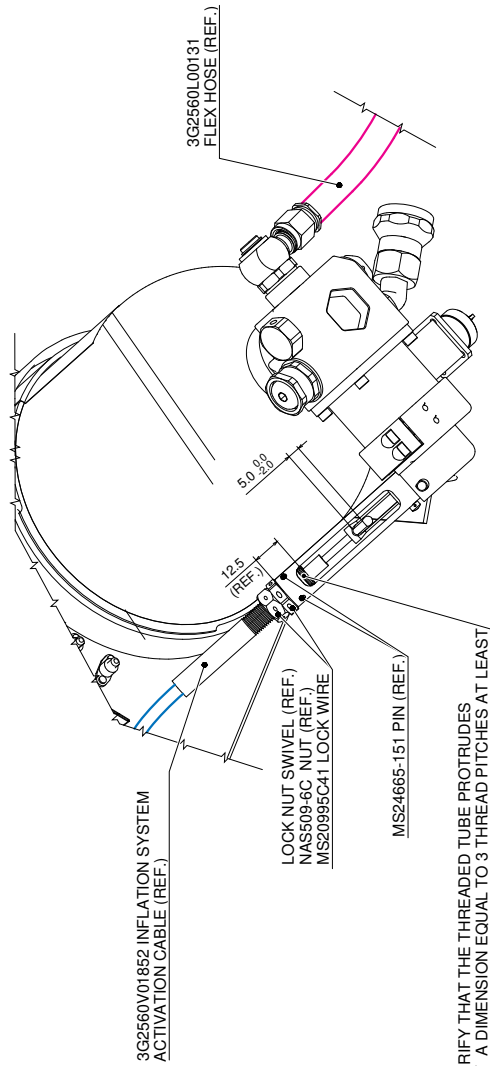
**TOP VIEW**  
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

**ISOMETRIC VIEW**  
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

**Figure 74**

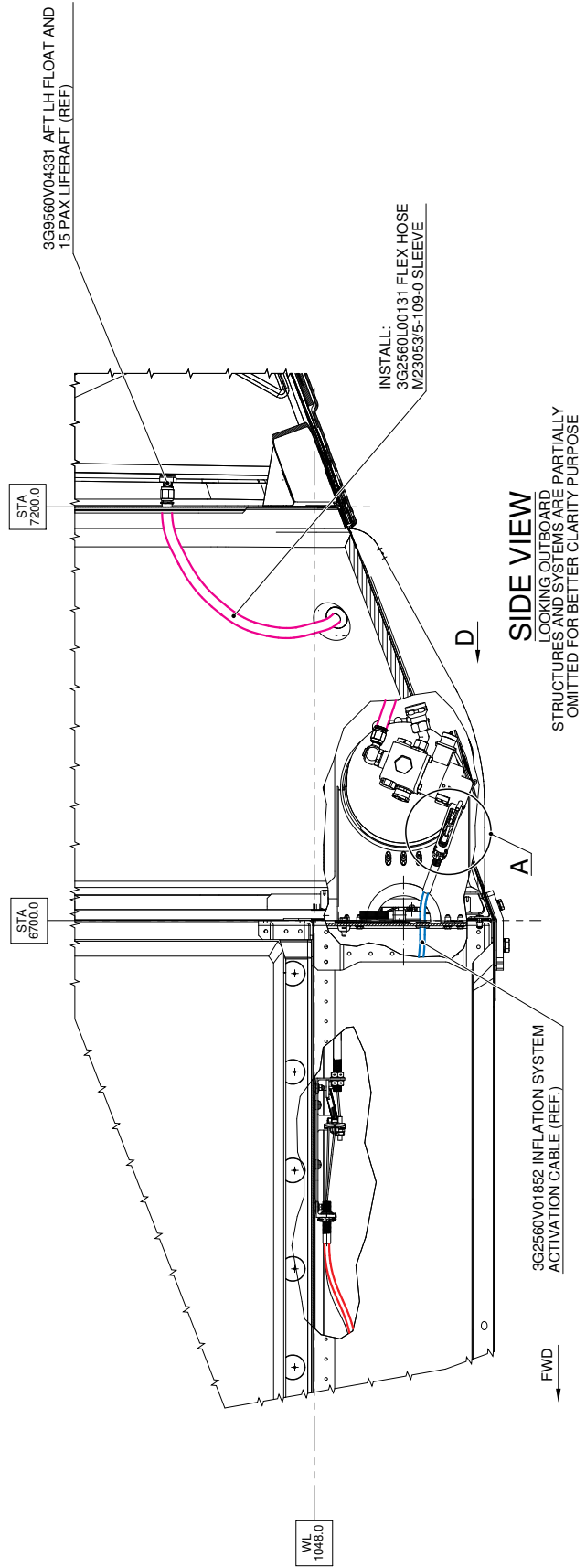
**PROCEDURE FOR INSTALLATION:**

1. BEFORE PROCEEDING, MAKE SURE THAT THE SAFETY PIN IS PROPERLY INSTALLED IN THE VALVE ASSY.
2. APPLY ANTI-SEIZE COMPOUND ON CABLE ROD AND PULL ROD.
3. SCREW THE SWIVEL TOWARD THE NO-THREADED PART OF CABLE HOUSING.
4. INSERT CABLE ROD IN SHROUD AND THEN IN SLOT OF PULL ROD. (AS SHOWN ON DETAIL A)
5. SCREW SWIVEL UNTIL CONTACT SURFACE OF SHROUD.
6. INSERT PINS.
7. TURN THE SWIVEL SUCH THAT THE POSITION OF CABLE HOUSING IN SHROUD COMPLES WITH DIMENSION 12.5 mm (DETAIL A).
8. VERIFY THE DIMENSION 5.0<sup>+0.2</sup> INDICATED IN THE DETAIL A.
9. TIGHTEN NUT.
10. INSTALL LOCK WIRE.
11. IF COPILOT AND BACKUP CABLE ASSY HAVE BEEN PREVIOUSLY RIGGED, REMOVE SAFETY PIN AND PUT IT IN A 195A03 STORAGE BAG.

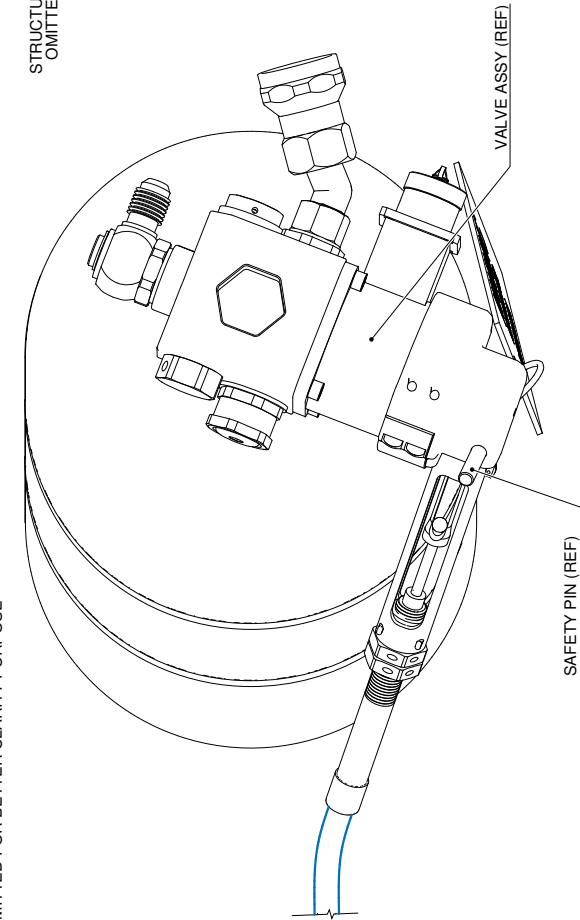
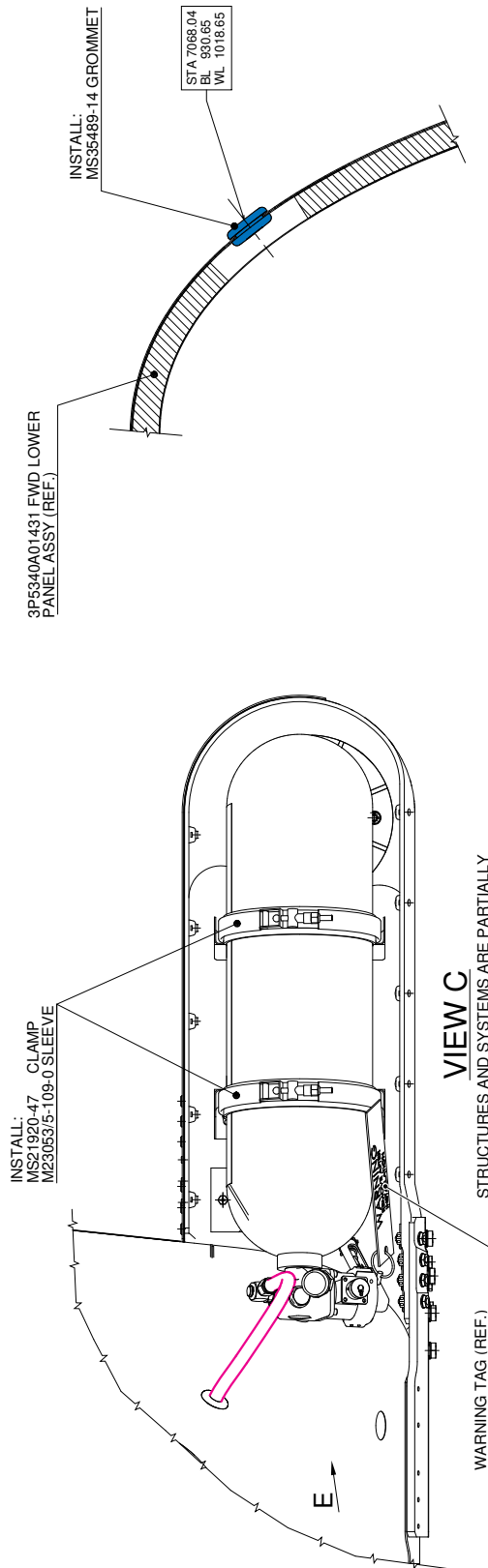


**DETAIL A**

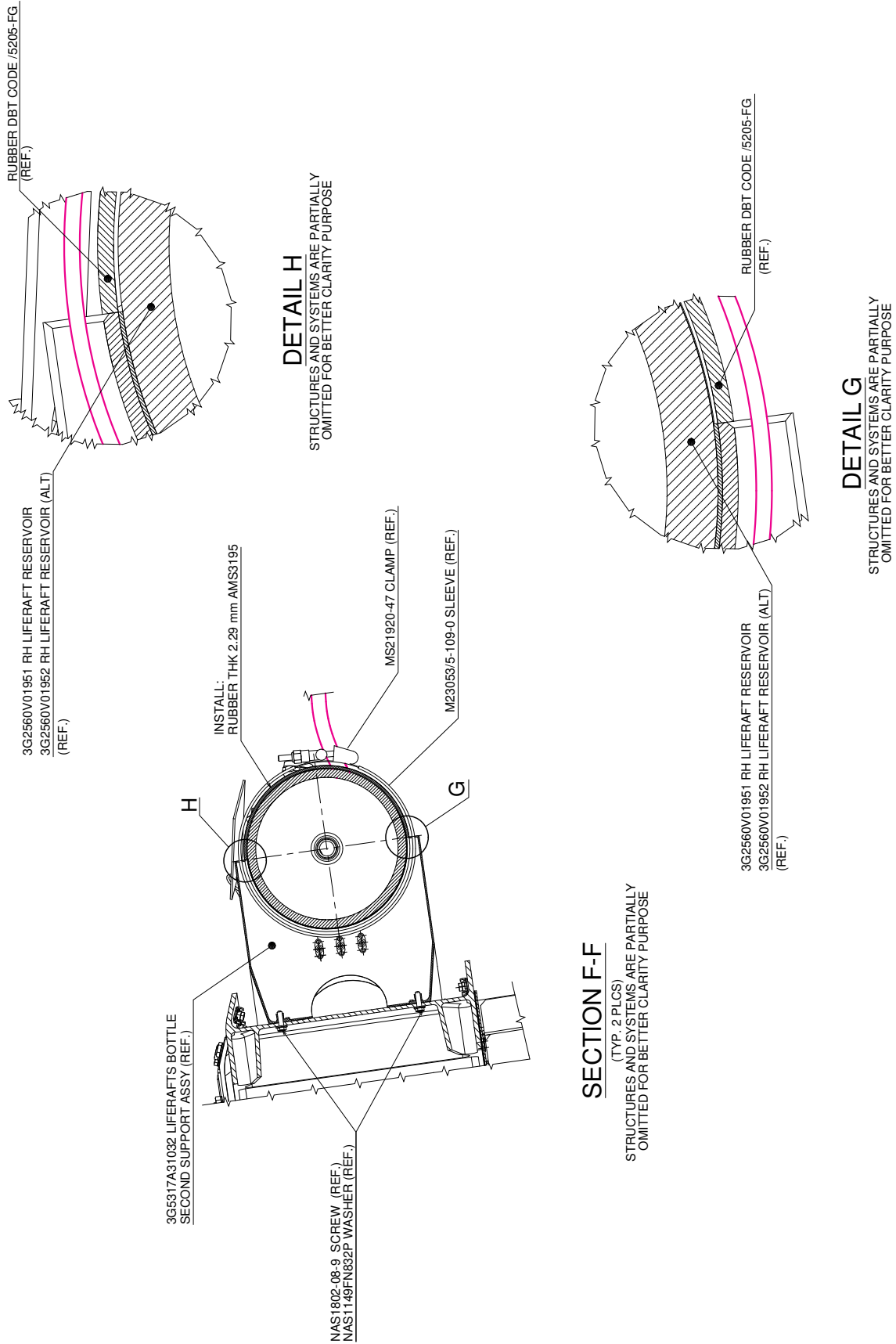
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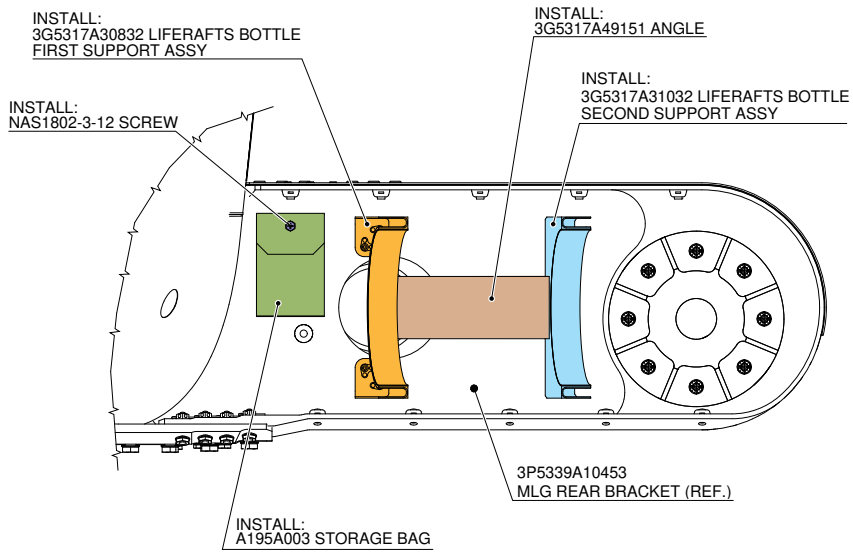
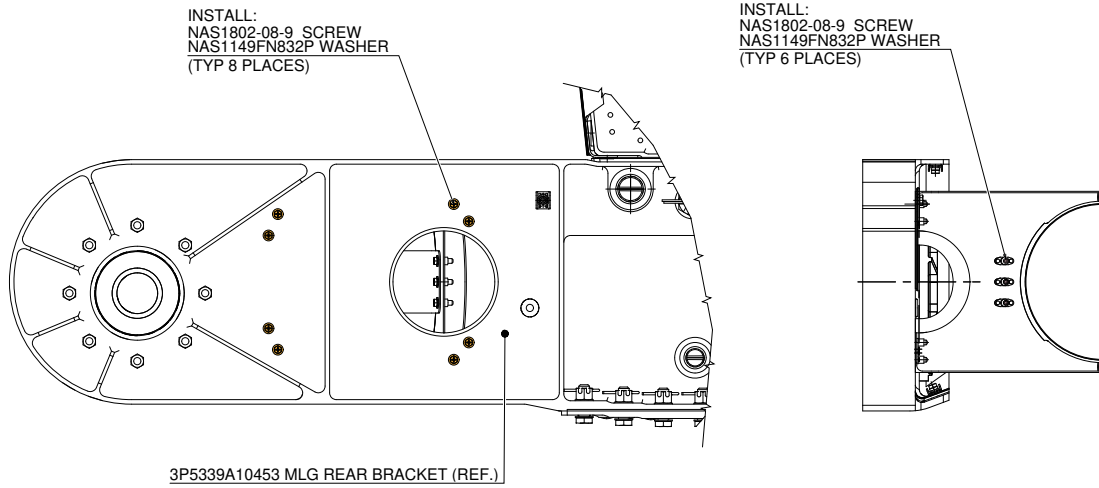
**Figure 75**



**Figure 76**



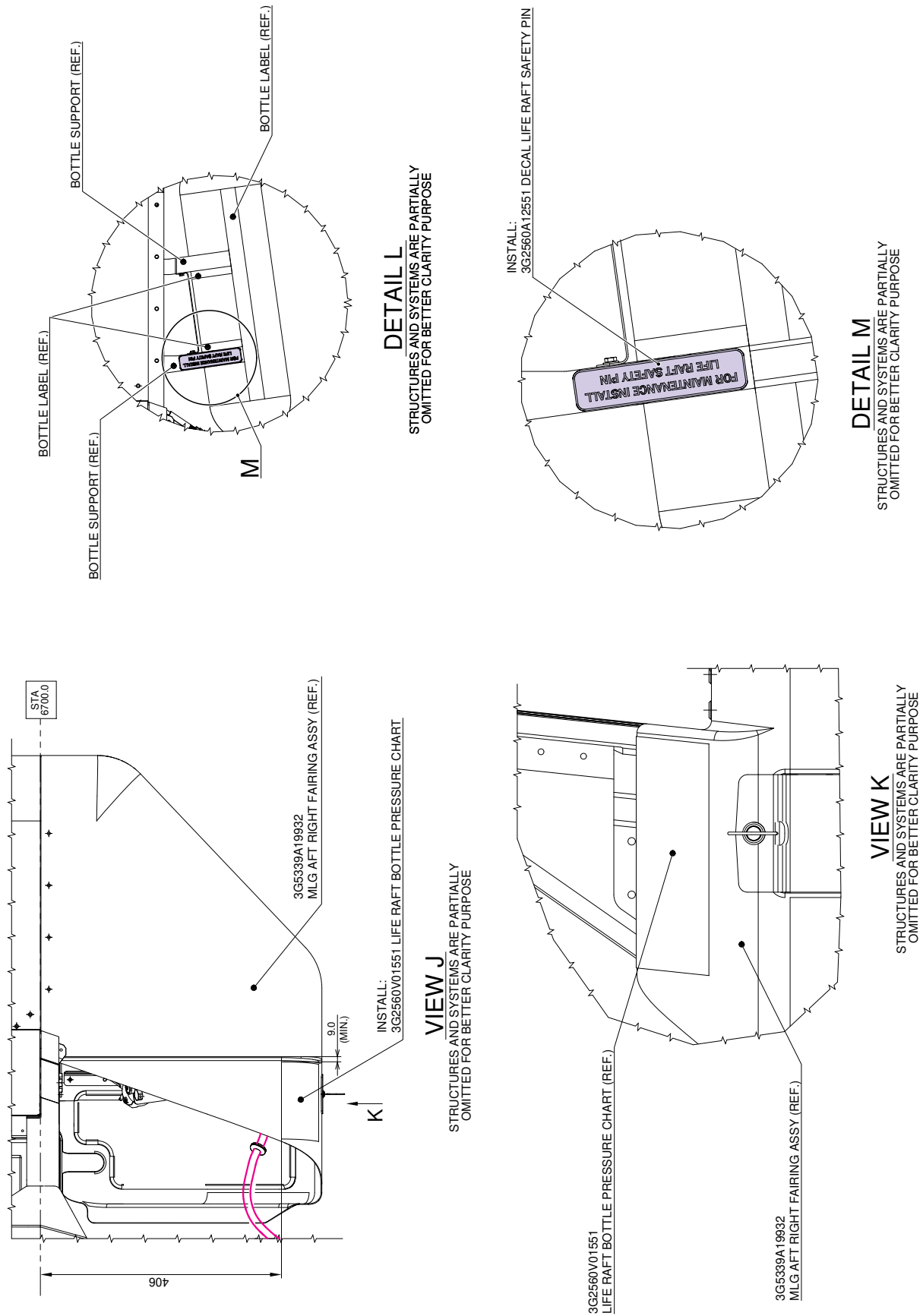
**Figure 77**



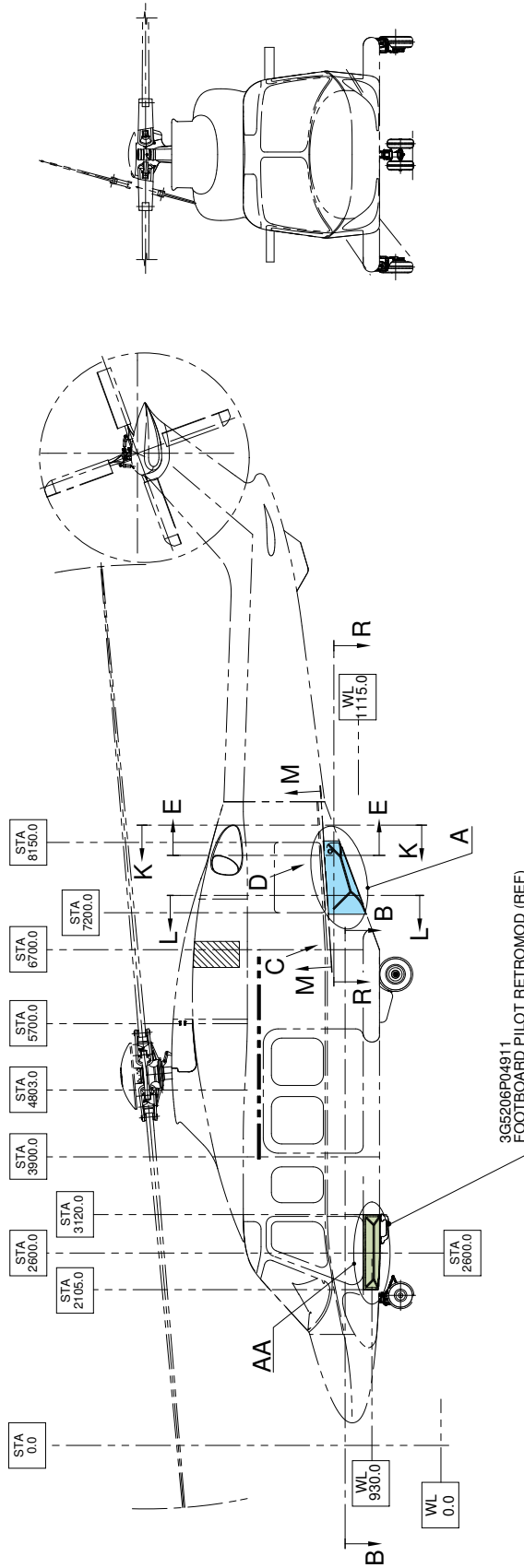
**VIEW D**

STRUCTURES AND SYSTEMS ARE PARTIALLY  
OMITTED FOR BETTER CLARITY PURPOSE

**Figure 78**

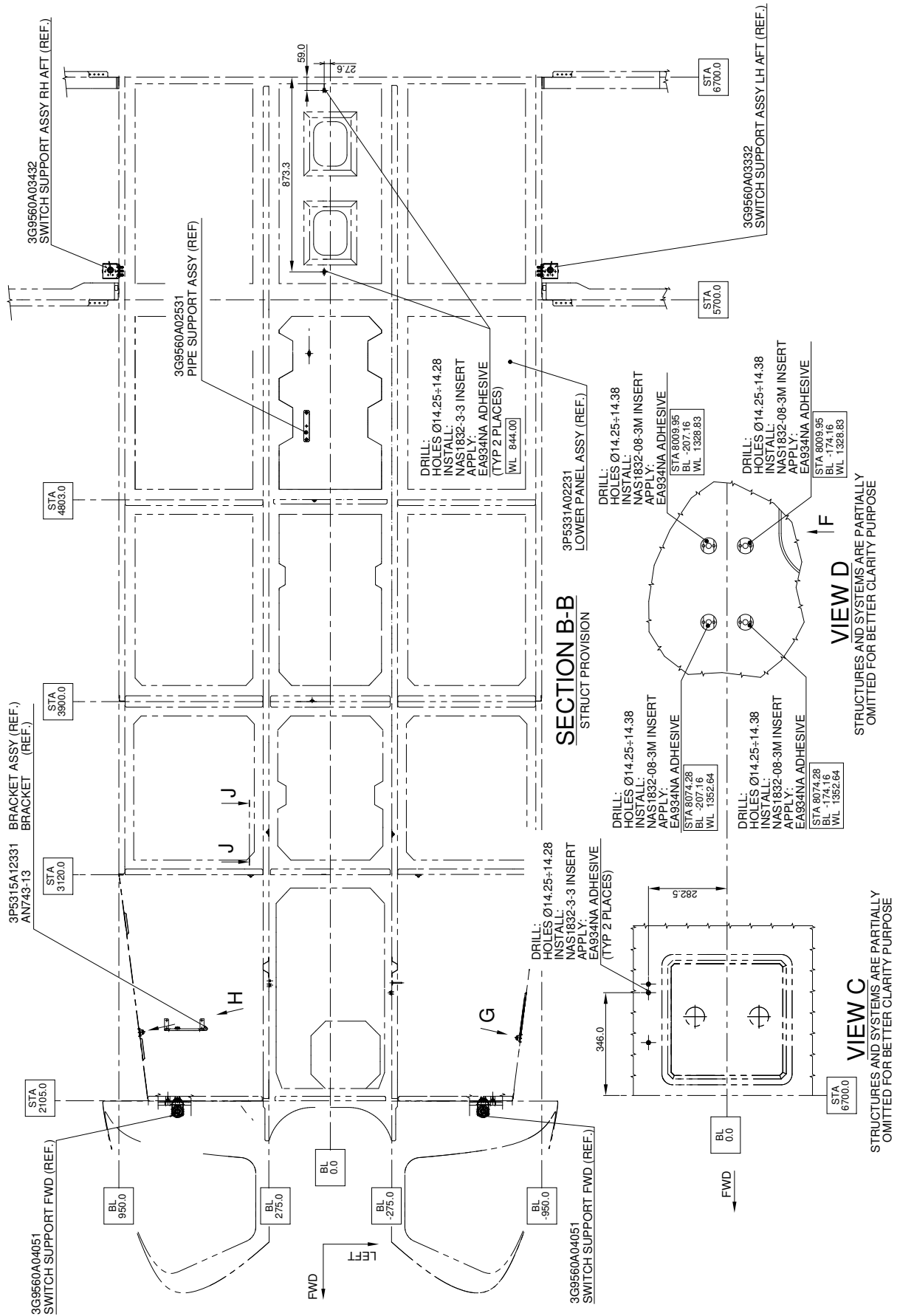


**Figure 79**



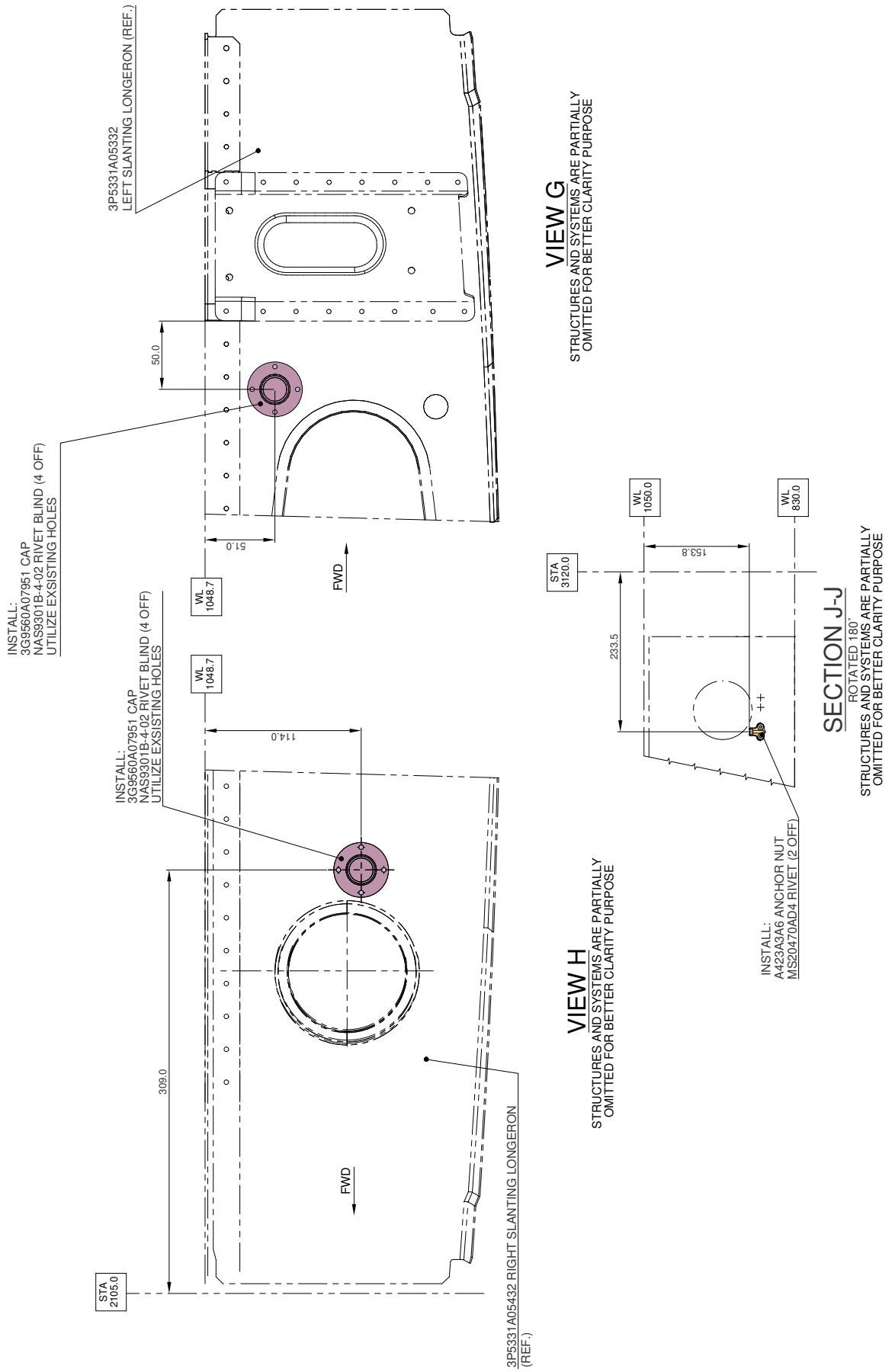
**3G9560P00611**  
**KIT EMERGENCY FLOAT 15 PAX**  
**RETROMOD**

**Figure 80**

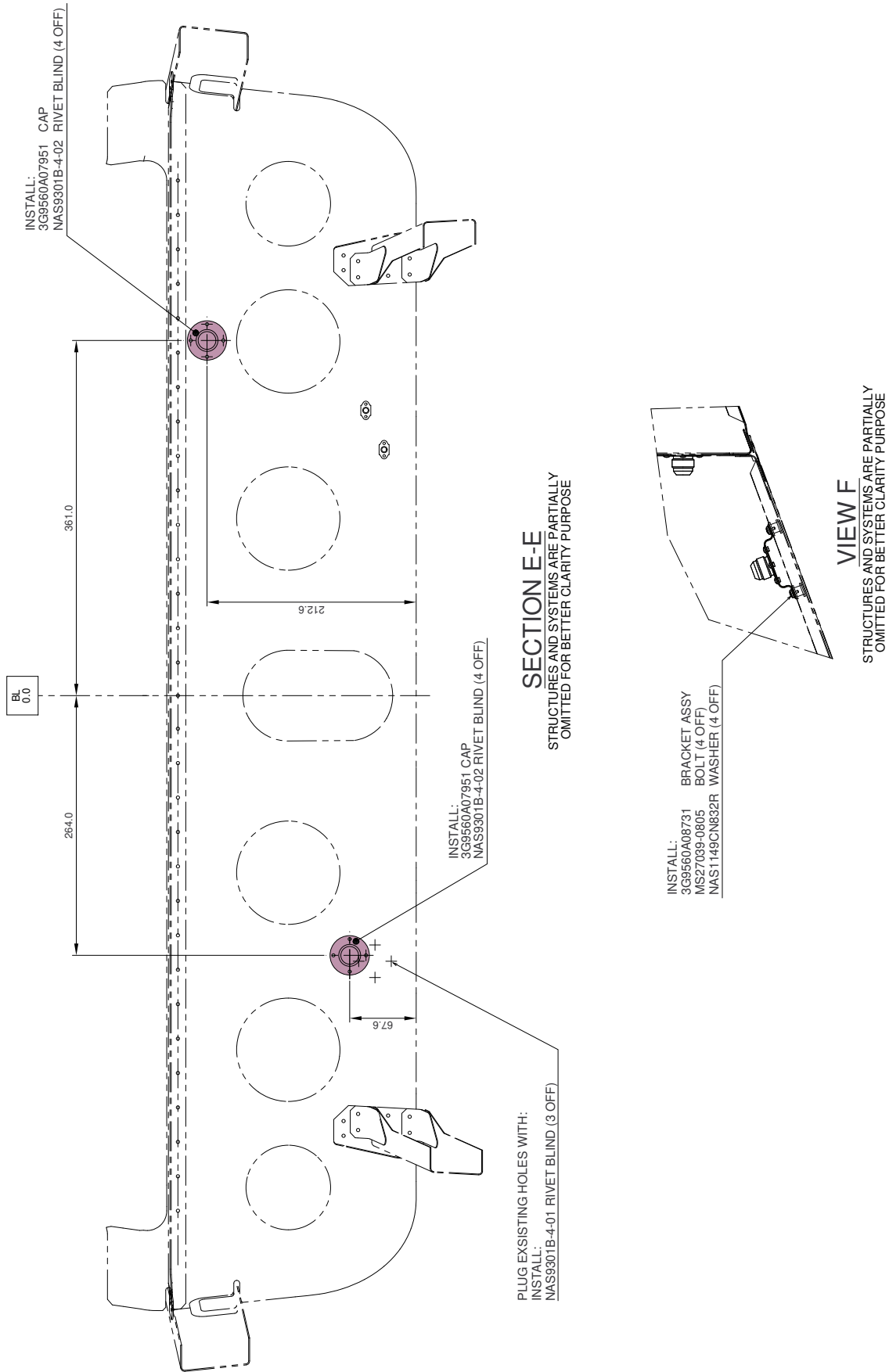


**Figure 81**

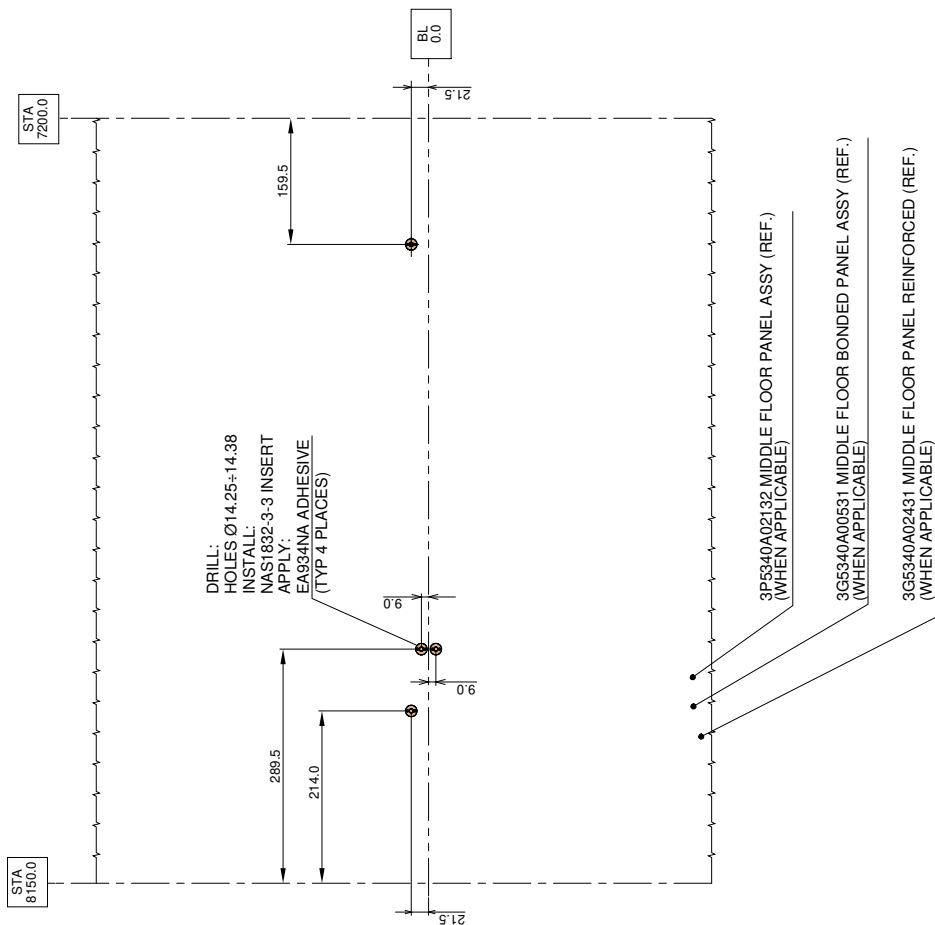
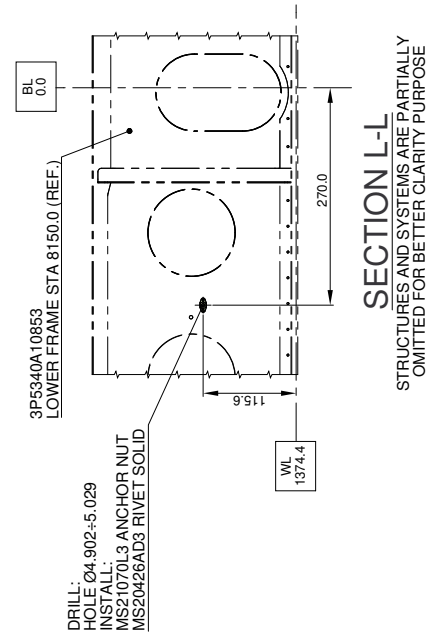
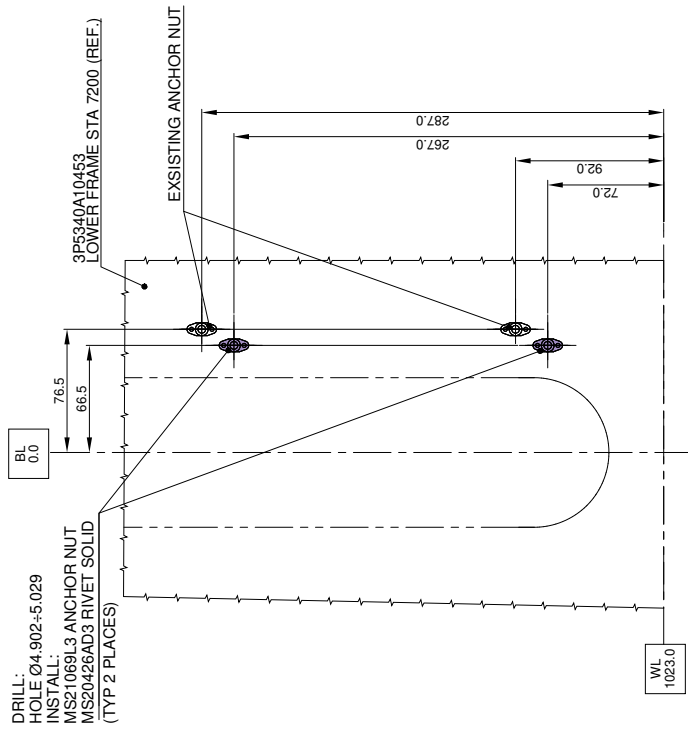




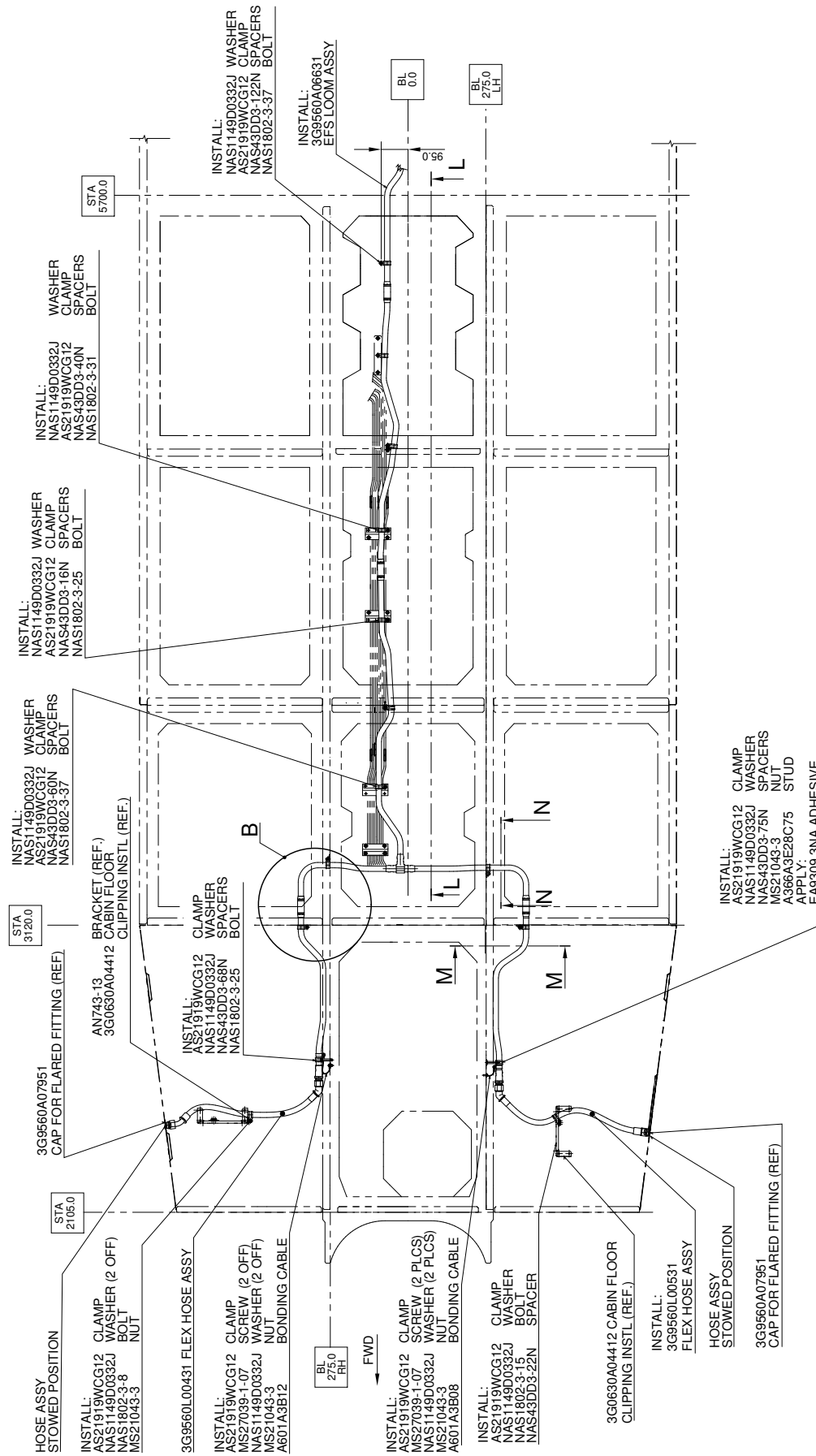
**Figure 82**



**Figure 83**



**Figure 84**



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

**Figure 85**



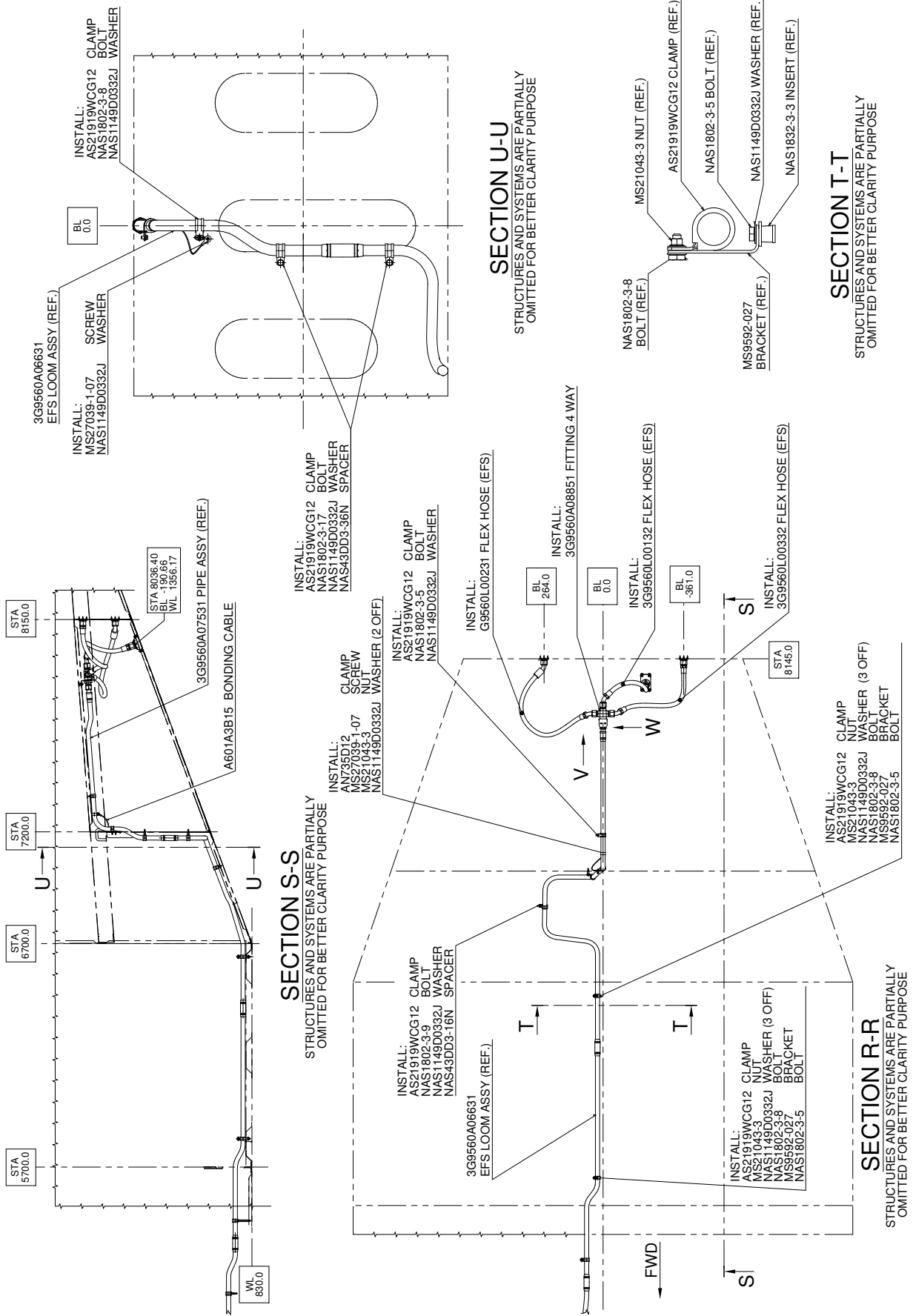
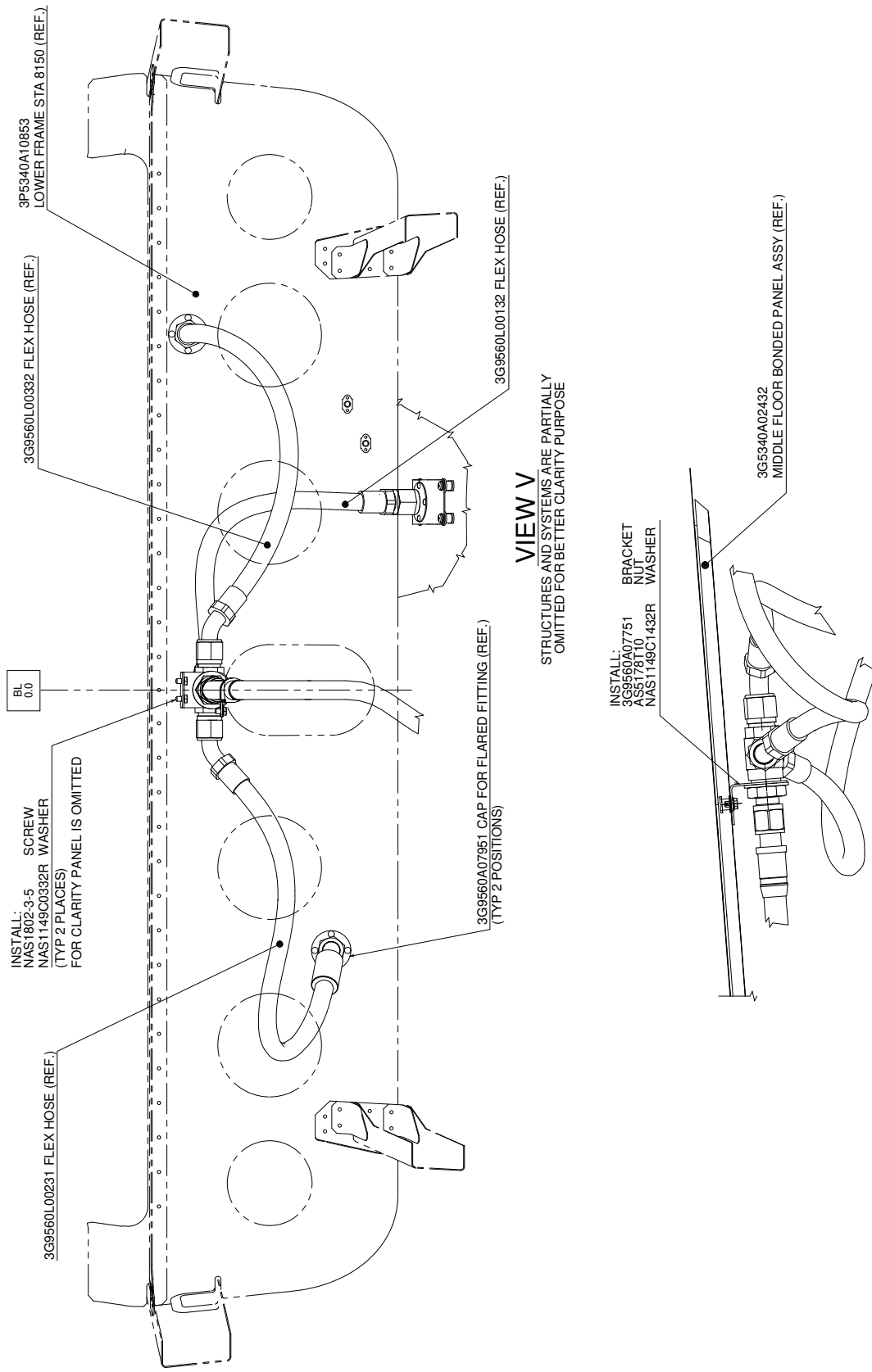


Figure 87



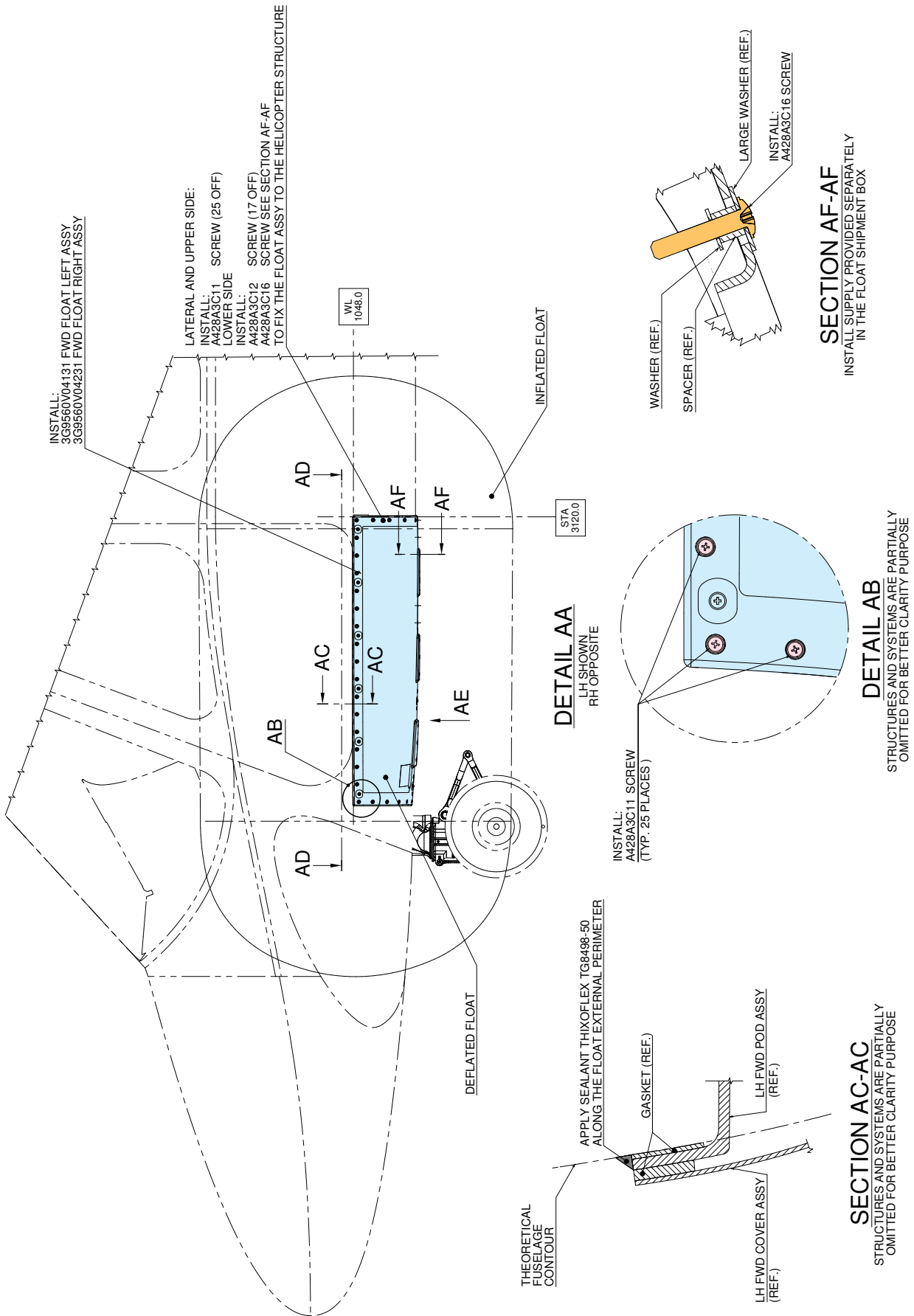
**VIEW V**

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

**VIEW W**

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

**Figure 88**



**Figure 89**



**PROCEDURE FOR INSTALLATION:**

1. REMOVE FROM THE STRUCTURE:  
3P5332A00531 LEFT SHEET SKIN ASSY  
3P5332A00631 RIGHT SHEET SKIN ASSY  
2. REMOVE SERVICE HW SCREWS, FIXING GIRT ASSY ON FLOAT POD ASSY, REPLACING ONE BY ONE WITH NASM17884C404 QUICK RELEASE PIN.  
3. POSITION ON STRUCTURE COMPARTMENT:  
FWD FLOAT LEFT ASSY  
FWD FLOAT RIGHT ASSY  
4. REMOVE QUICK RELEASE PIN THAN:  
FX FLOAT LEFT ASSY TO STRUCTURE BY 43 SCREWS  
FX FLOAT RIGHT ASSY TO STRUCTURE BY 43 SCREWS  
5. REMOVE LEFT LOWER PANEL.  
REMOVE RIGHT LOWER PANEL.  
6. DISCONNECT FROM 3G9560A07951 CAP FOR FLARED FITTING  
3G9560L00431 FLEX HOSE (LH SIDE)  
3G9560L00431 FLEX HOSE (RH SIDE)  
7. CONNECT FLEX HOSES TO FLOATS INLET PORT AND TIGHTEN (LH AND RH SIDE).  
8. REINSTALL LEFT LOWER PANEL AND RIGHT LOWER PANEL.

3A9560L00531 FLEXIBLE HOSE REF (LH SIDE)  
3A9560L00631 FLEXIBLE HOSE REF (RH SIDE)

STOWED POSITION OF FLEX HOSE WITH FLOAT ASSY UNINSTALLED

3G9560A07951  
CAP FOR FLARED FITTING (REF.)

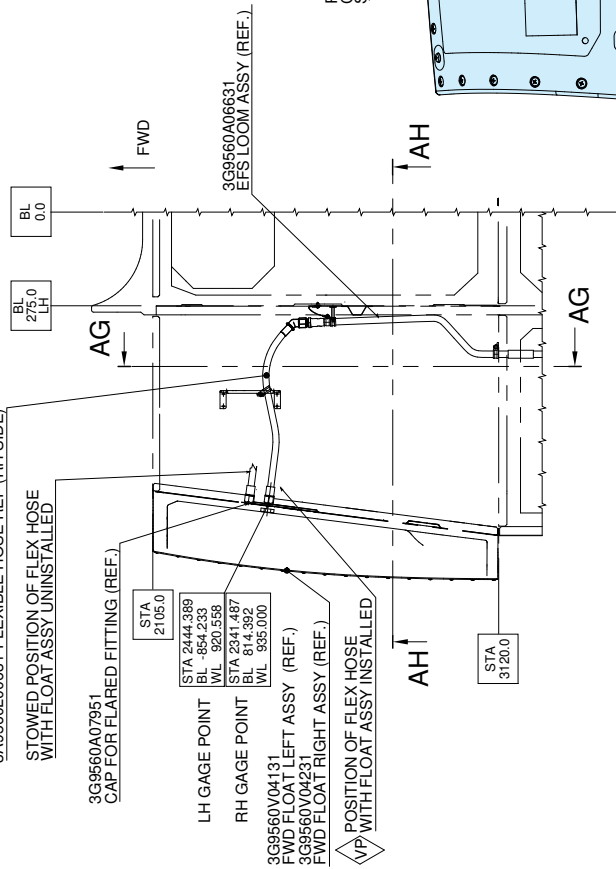
LH GAGE POINT

RH GAGE POINT

3G9560V04131  
FWD FLOAT LEFT ASSY (REF.)

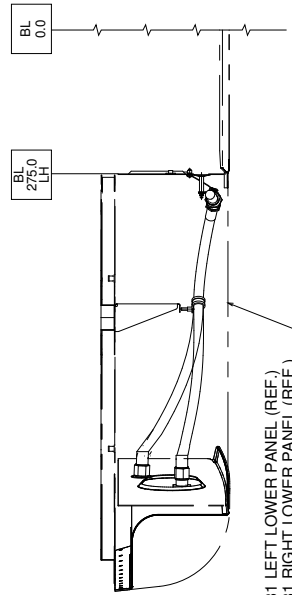
3G9560V04231  
FWD FLOAT RIGHT ASSY (REF.)

POSITION OF FLEX HOSE WITH FLOAT ASSY INSTALLED



**SECTION AD-AD**

ROTATED 90°  
FOR CLARITY LOWER PANEL IS OMITTED



**SECTION AH-AH**

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

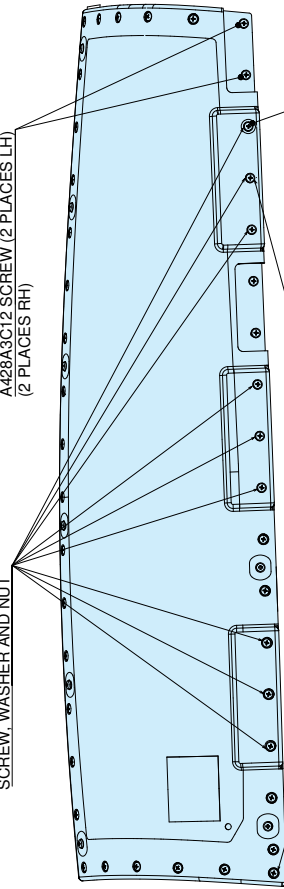
3P5332A00731 LEFT LOWER PANEL (REF.)  
3P5332A00831 RIGHT LOWER PANEL (REF.)

REMOVE SERVICE HW COMPOSED BY: SCREW, WASHER AND NUT

INSTALL: A428A3C12 SCREW (2 PLACES LH) (2 PLACES RH)

A428A3C12 SCREW (17 PLACES LH) (17 PLACES RH)

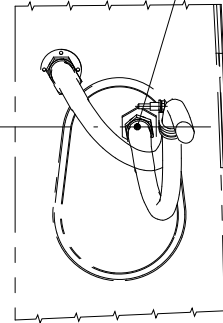
INSTALL: A428A3C16 SCREW (1 PLACES LH) (1 PLACES RH)  
SEE SECTION AF-AF



**VIEW AE**

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

STA 2444.389



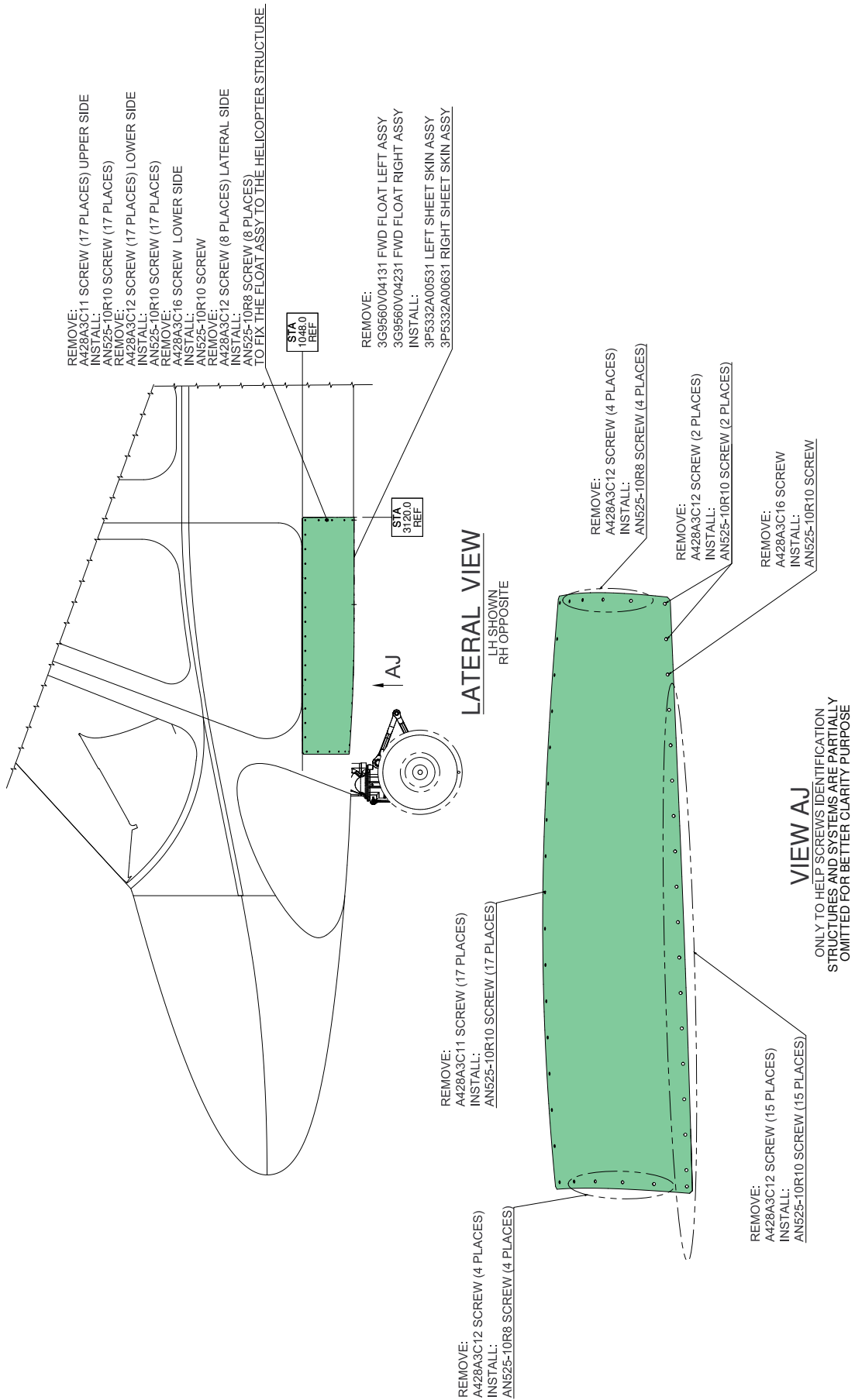
INSTALL:  
3A9560L00531 FLEXIBLE HOSE REF (LH SIDE)  
3A9560L00631 FLEXIBLE HOSE REF (RH SIDE)  
DURING HOSE INSTL AVOID SIPHONING ALONG THE ROUTE.

**SECTION AG-AG**

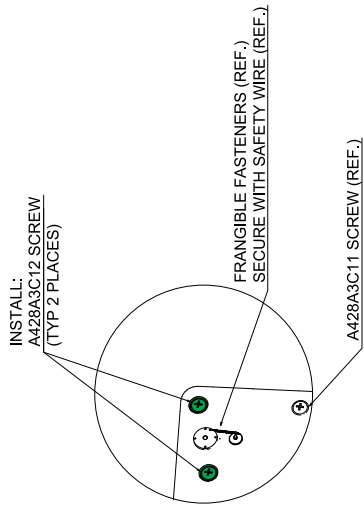
ROTATED 90°  
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

**Figure 90**

**FWD LEFT SKIN ASSY INSTALLATION. (SHOWN)  
FWD RIGHT SKIN ASSY INSTALLATION. (OPPOSITE)  
TO BE APPLIED WHEN FWD FLOATS ARE REMOVED.**

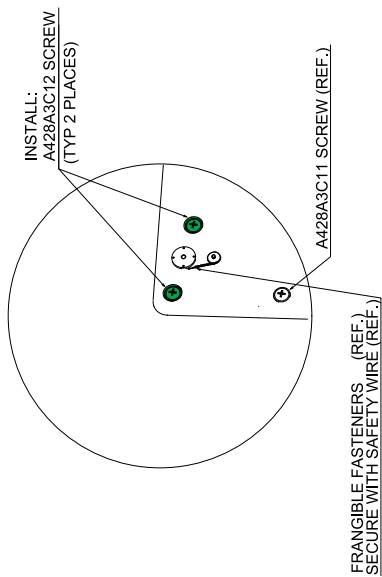


**Figure 91**



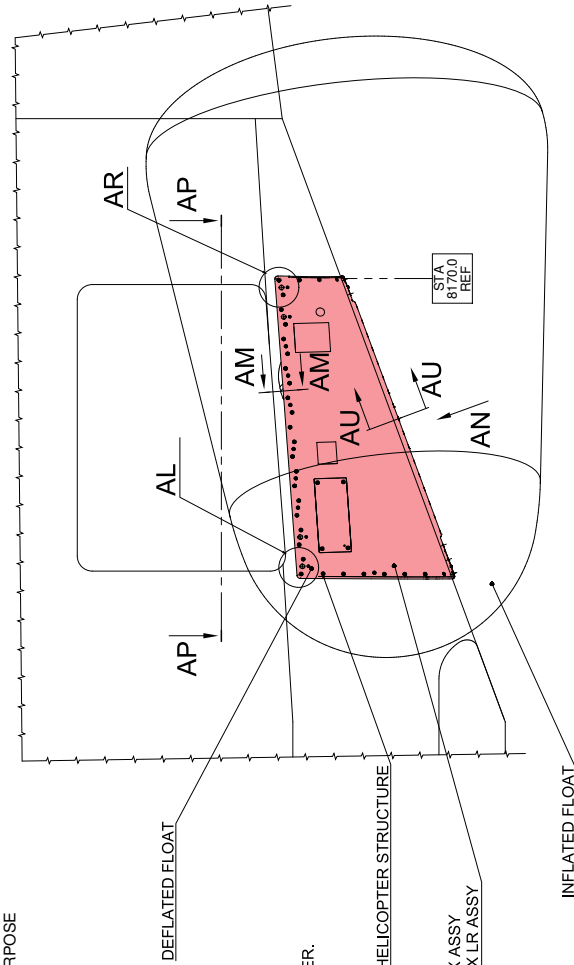
**DETAIL AR**

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE



**DETAIL AL**

STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE



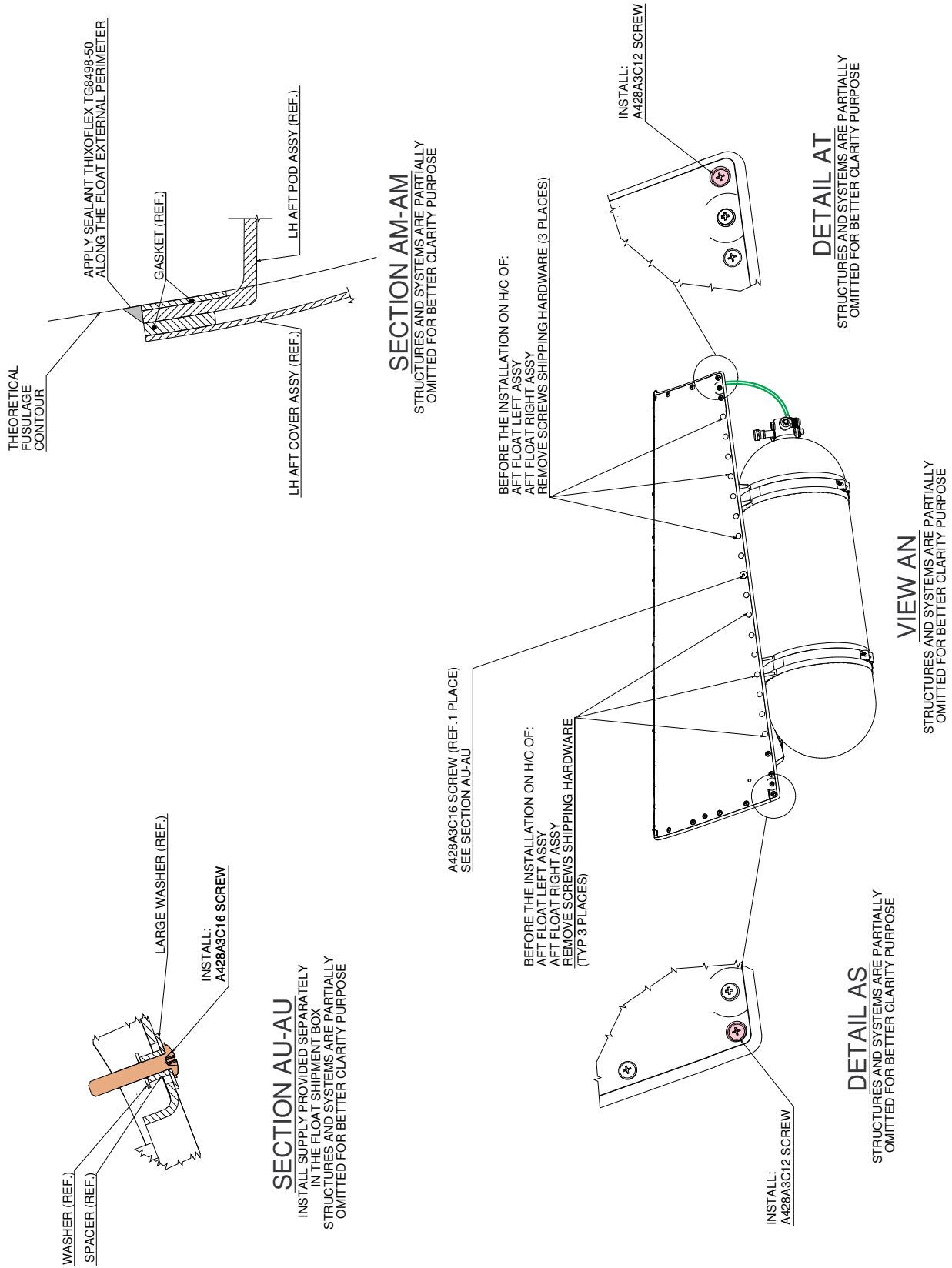
**VIEW A**

LH SHOWN  
RH OPPOSITE  
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

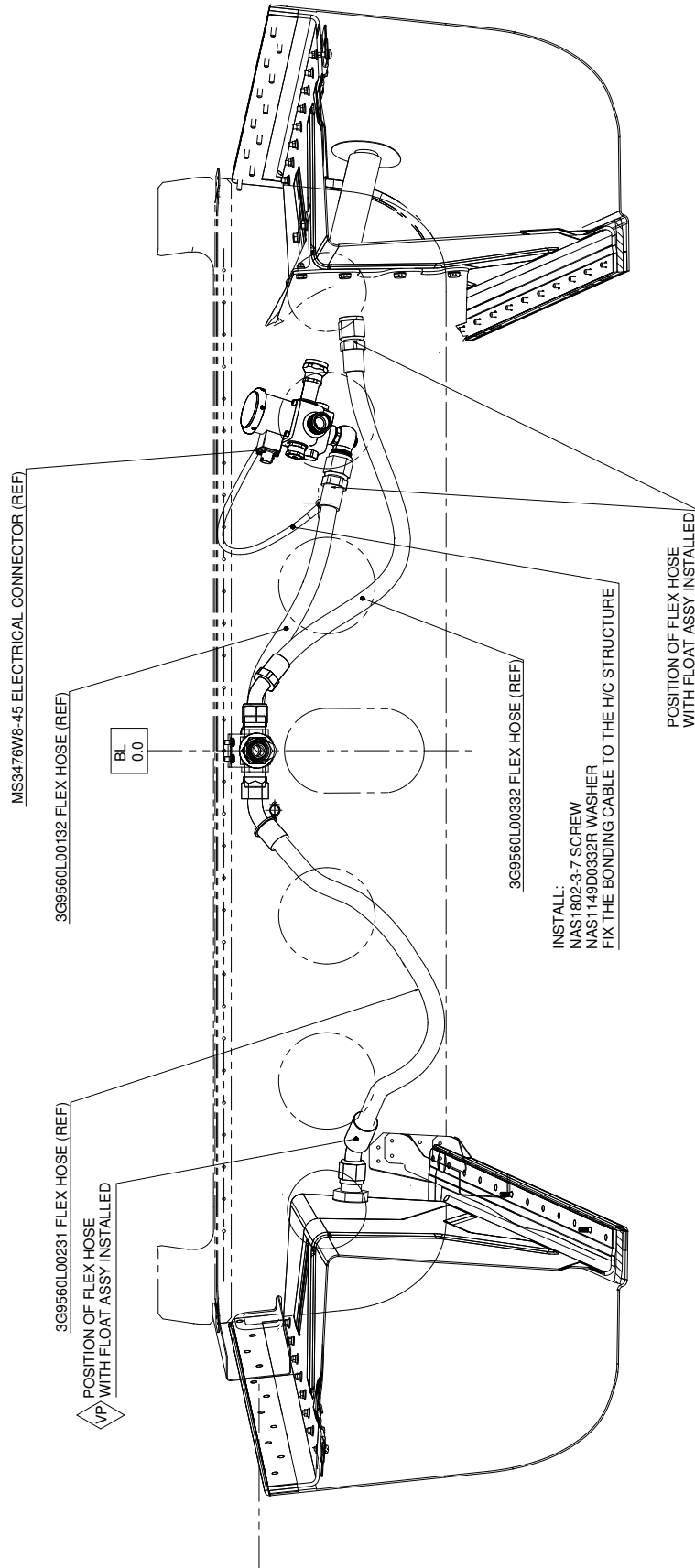
AT CORNERS - SEE DETAIL AL, AR, AS, AT  
A428A3C12 SCREW (6 PLACES)  
IN ALL OTHER POSITIONS ON FLOAT PERIMETER.  
A428A3C11 SCREW (50 PLCS)  
AT BOTTOM - SEE SECTION AU-AU  
A428A3C16 SCREW  
TO FIX THE FLOAT STRUCTURE ASSY TO THE HELICOPTER STRUCTURE

INSTALL:  
3G9560V06231 AFT LH COMPLETE 15 PAX ASSY  
3G9560V04431 AFT RH FLOAT AND 15 PAX LR ASSY

**Figure 92**

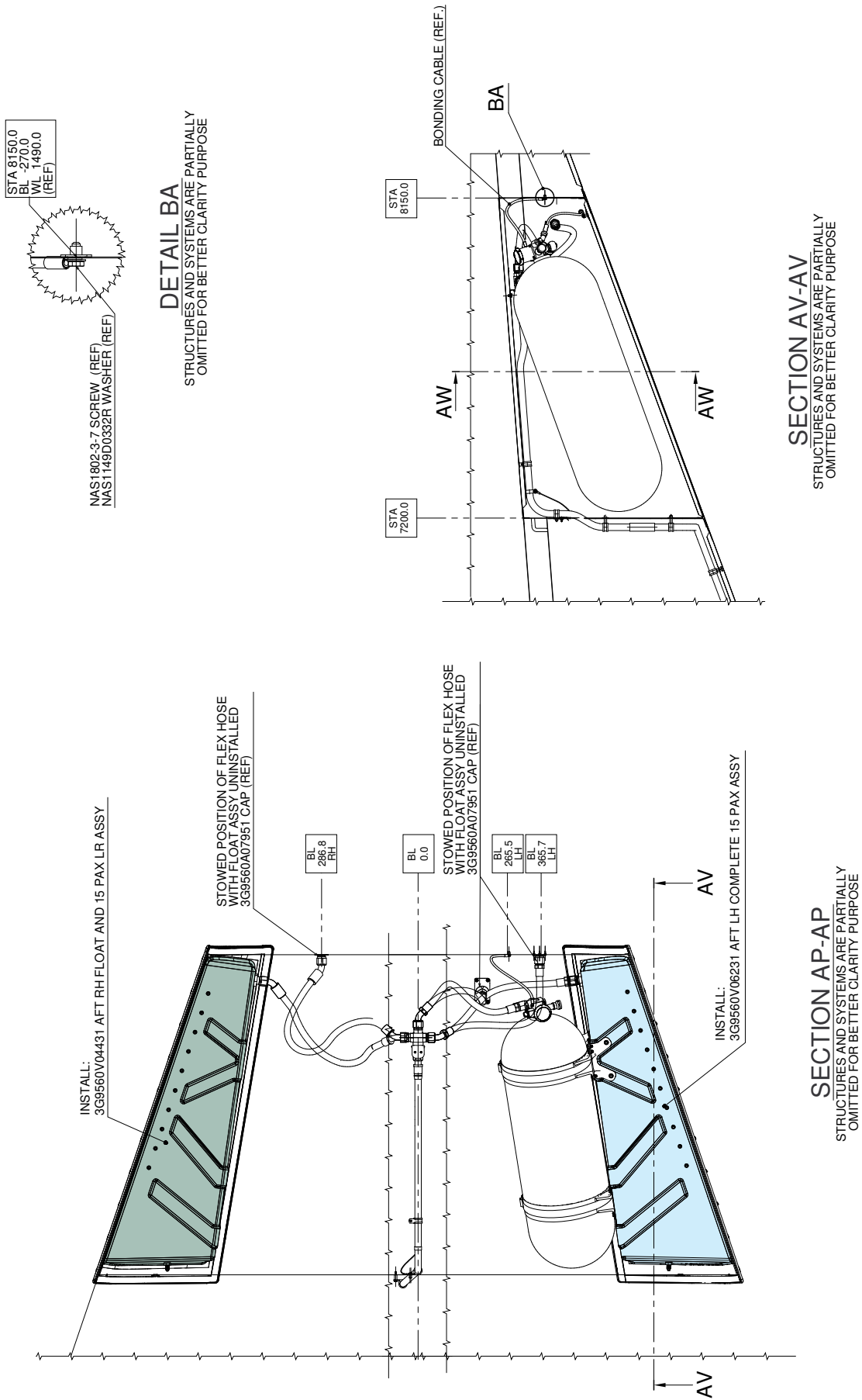


**Figure 93**

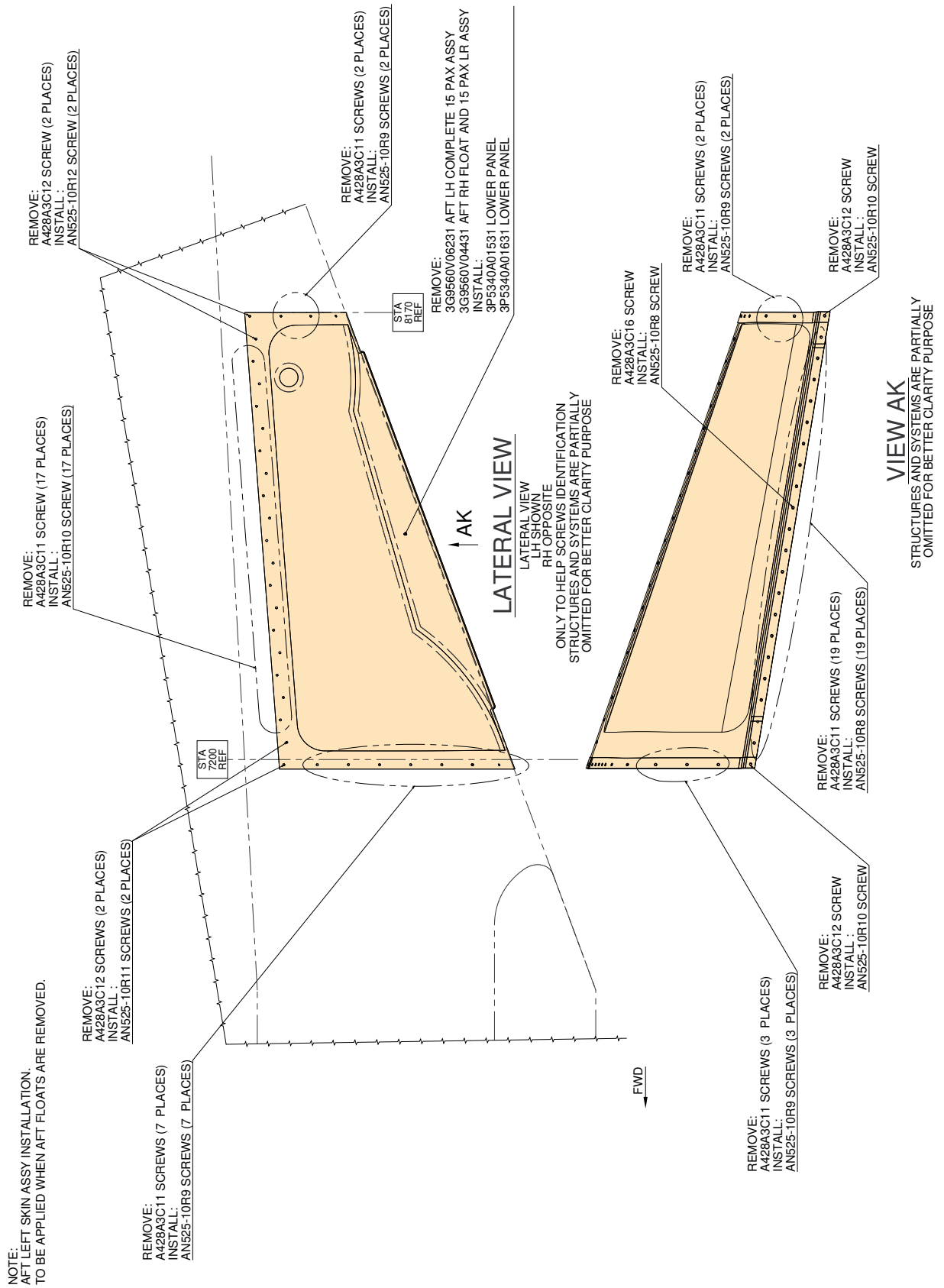


**SECTION AW-AW**  
STRUCTURES AND SYSTEMS ARE PARTIALLY  
OMITTED FOR BETTER CLARITY PURPOSE

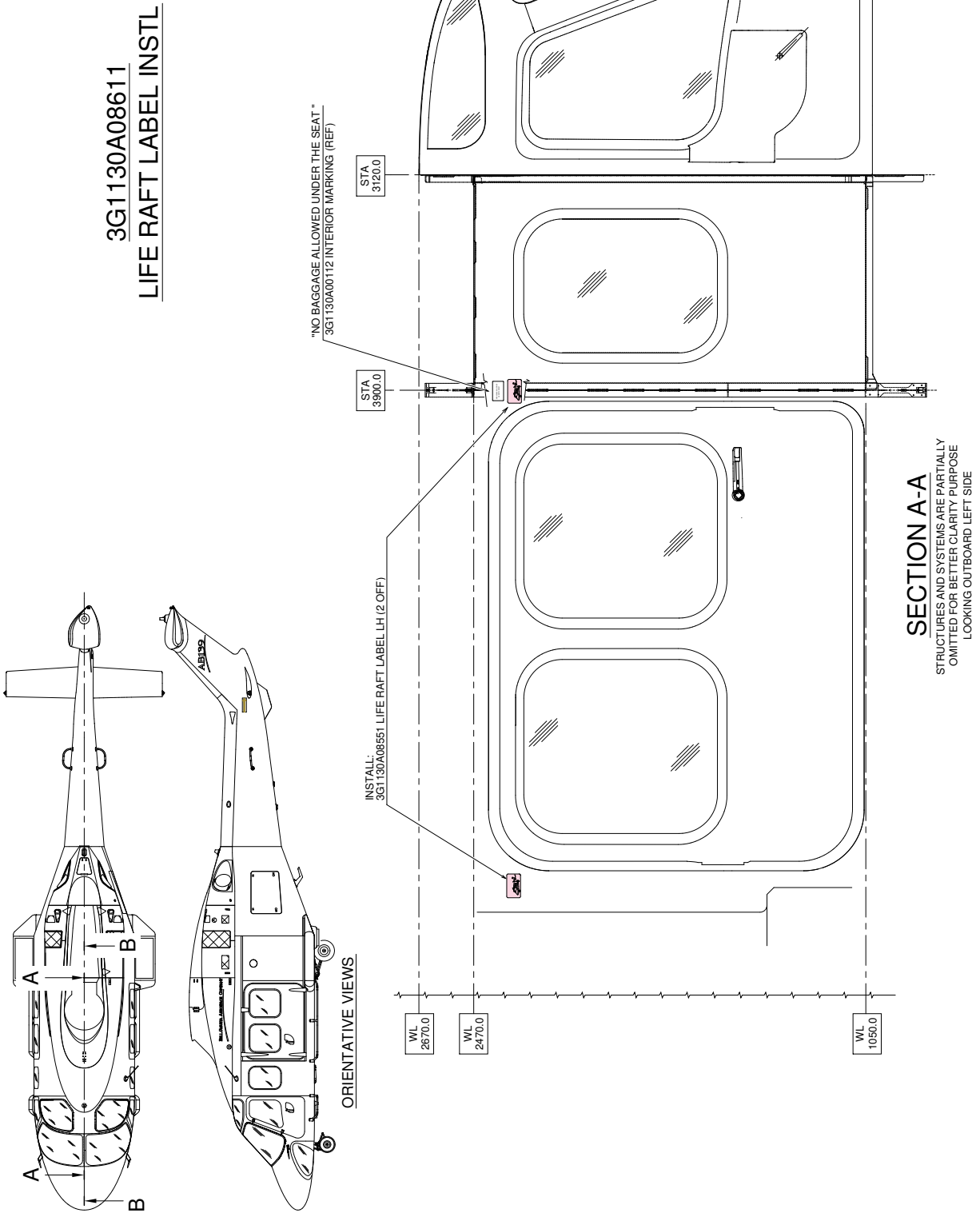
**Figure 94**



**Figure 95**

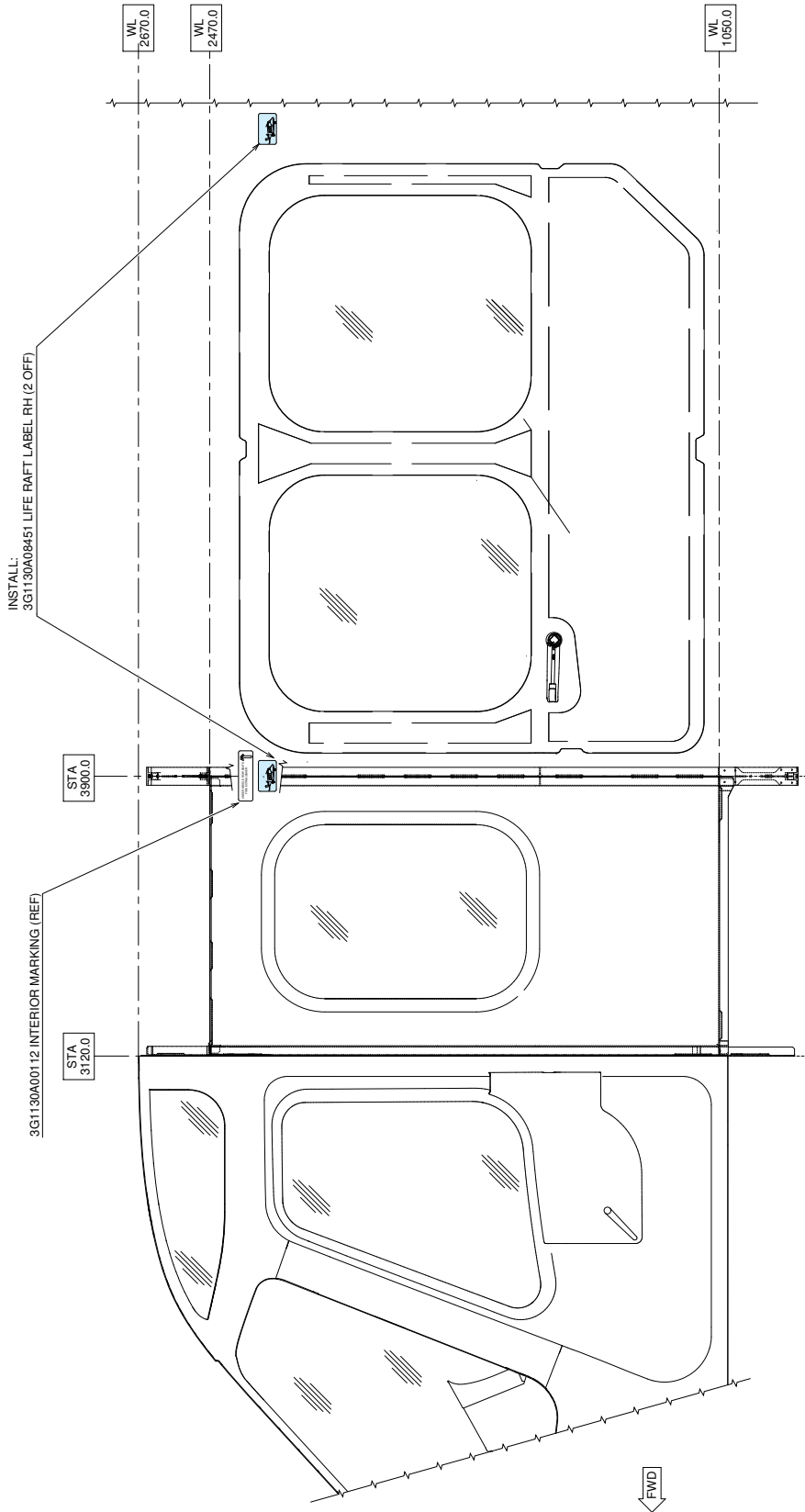


**Figure 96**



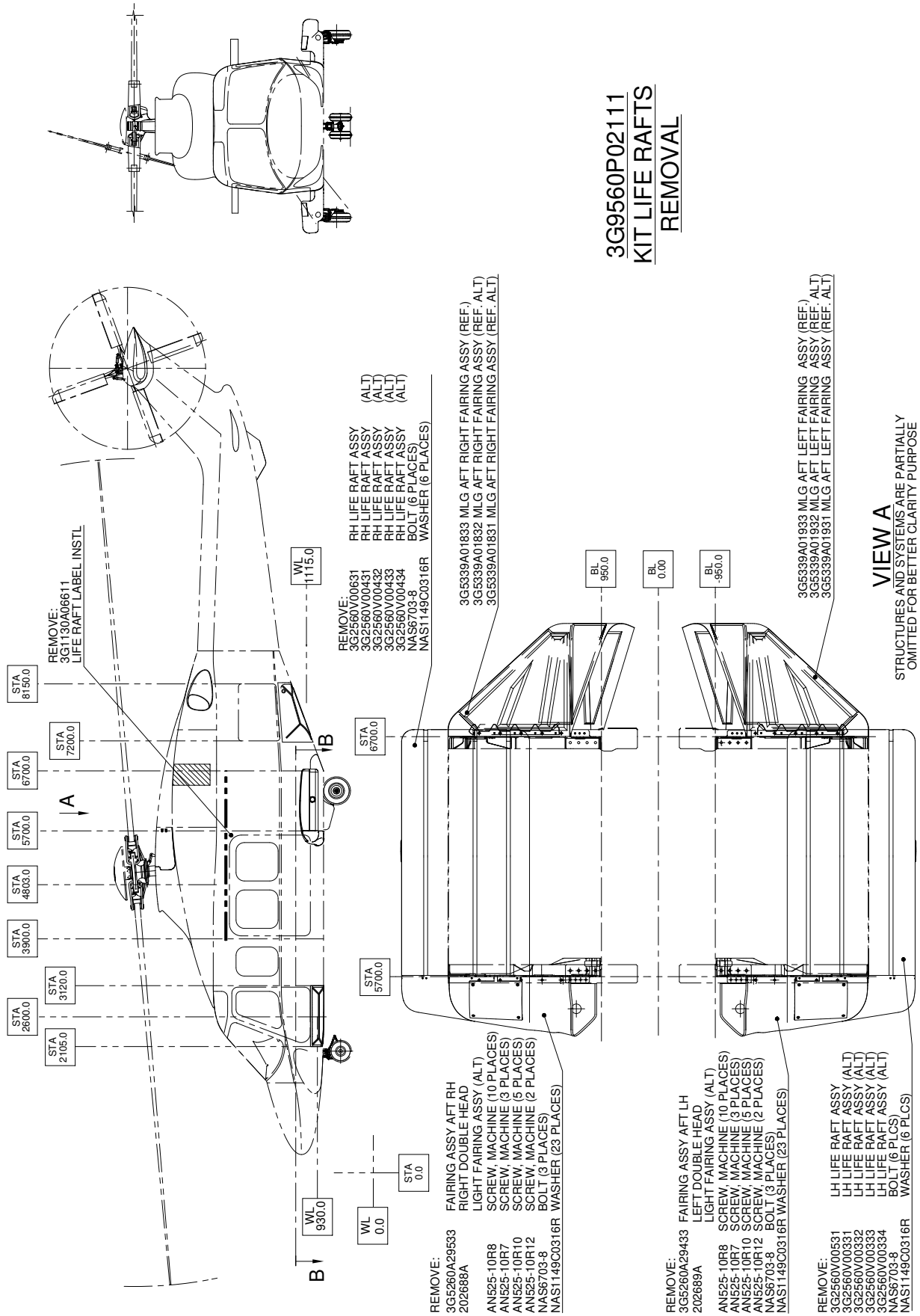
**Figure 97**





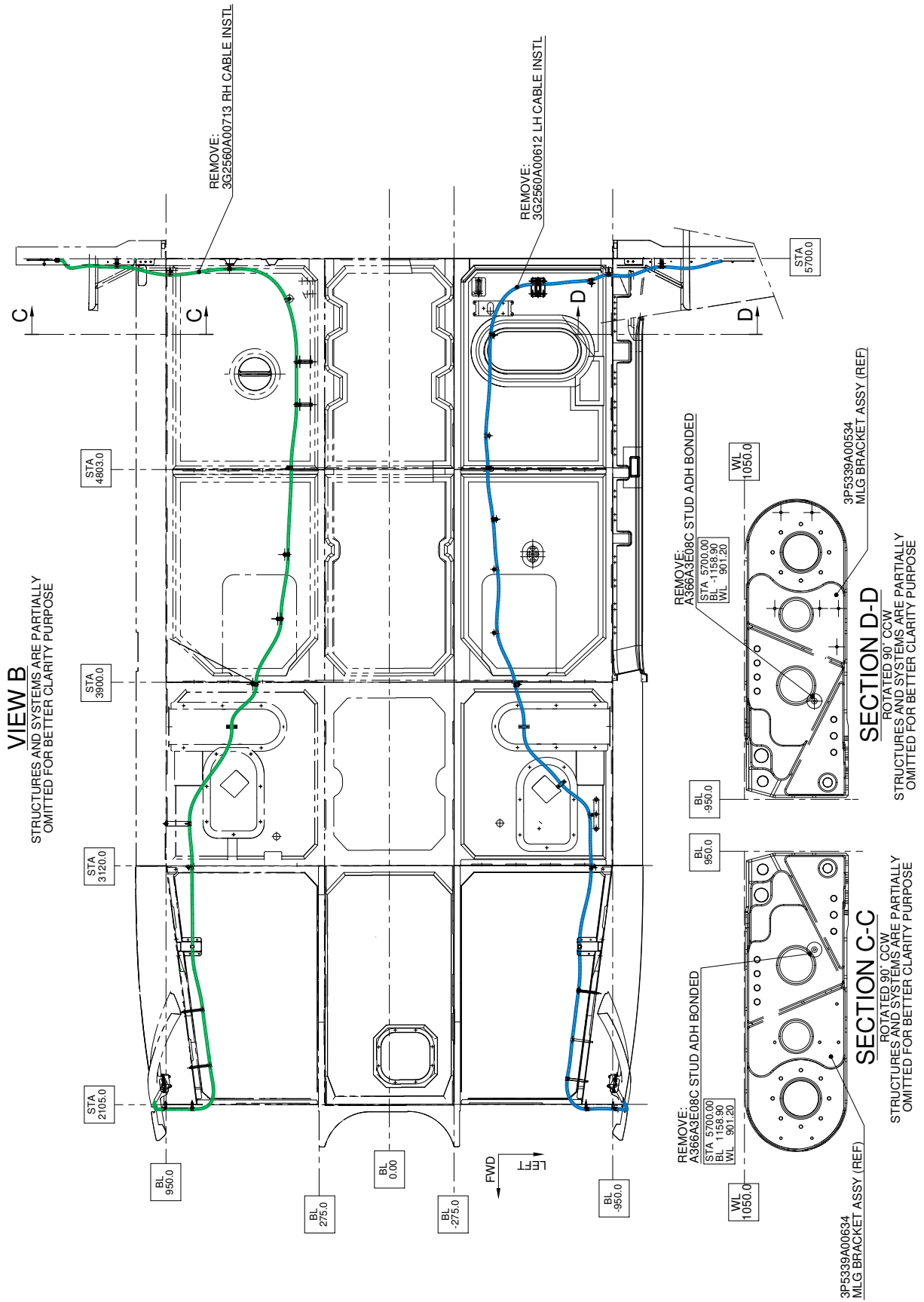
**SECTION B-B**  
LOOKING OUTBOARD RIGHT SIDE  
STRUCTURES AND SYSTEMS ARE PARTIALLY  
OMITTED FOR BETTER CLARITY PURPOSE

**Figure 98**



**3G9560P02111  
KIT LIFE RAFTS  
REMOVAL**

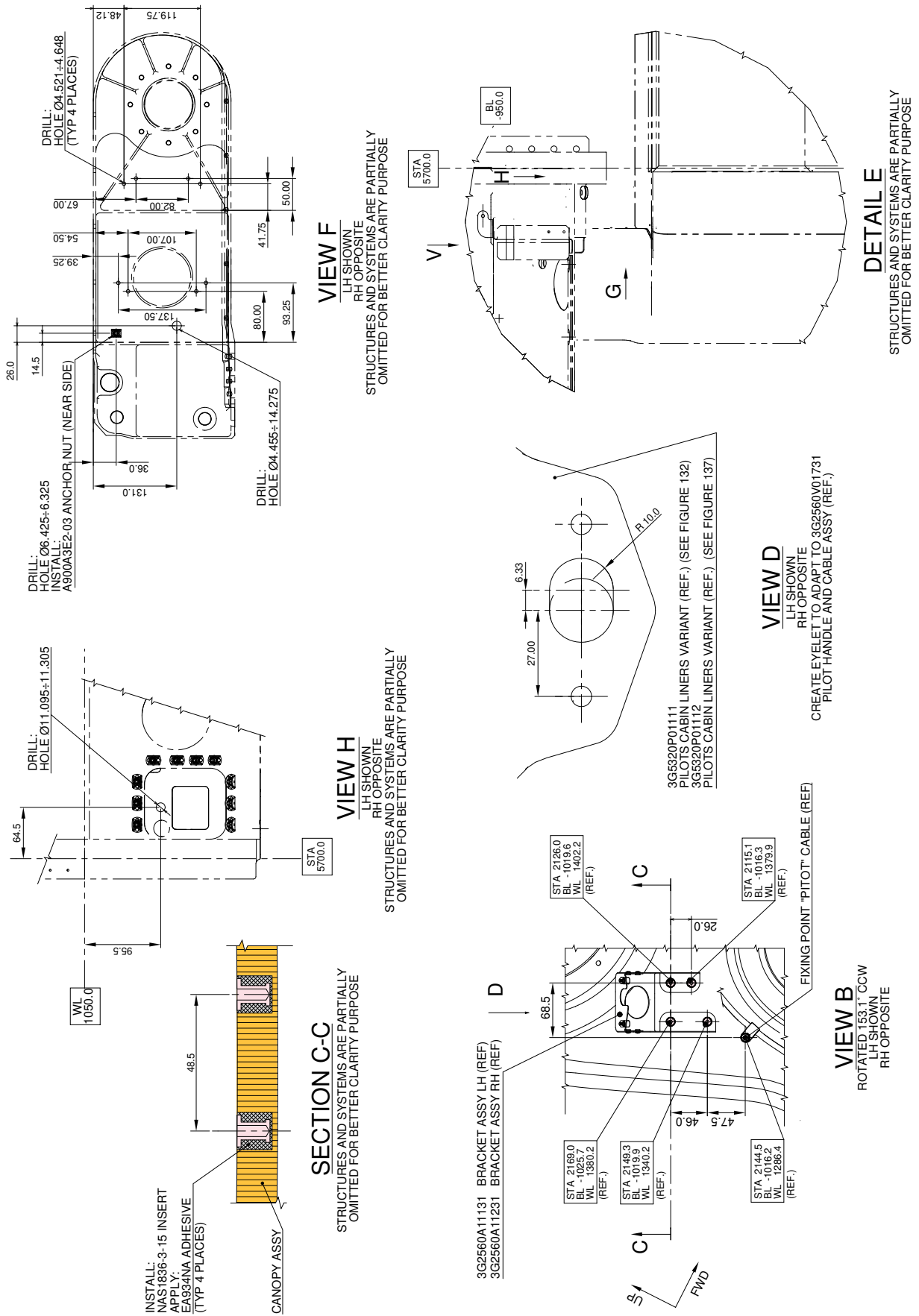
**Figure 99**



**Figure 100**







**Figure 103**

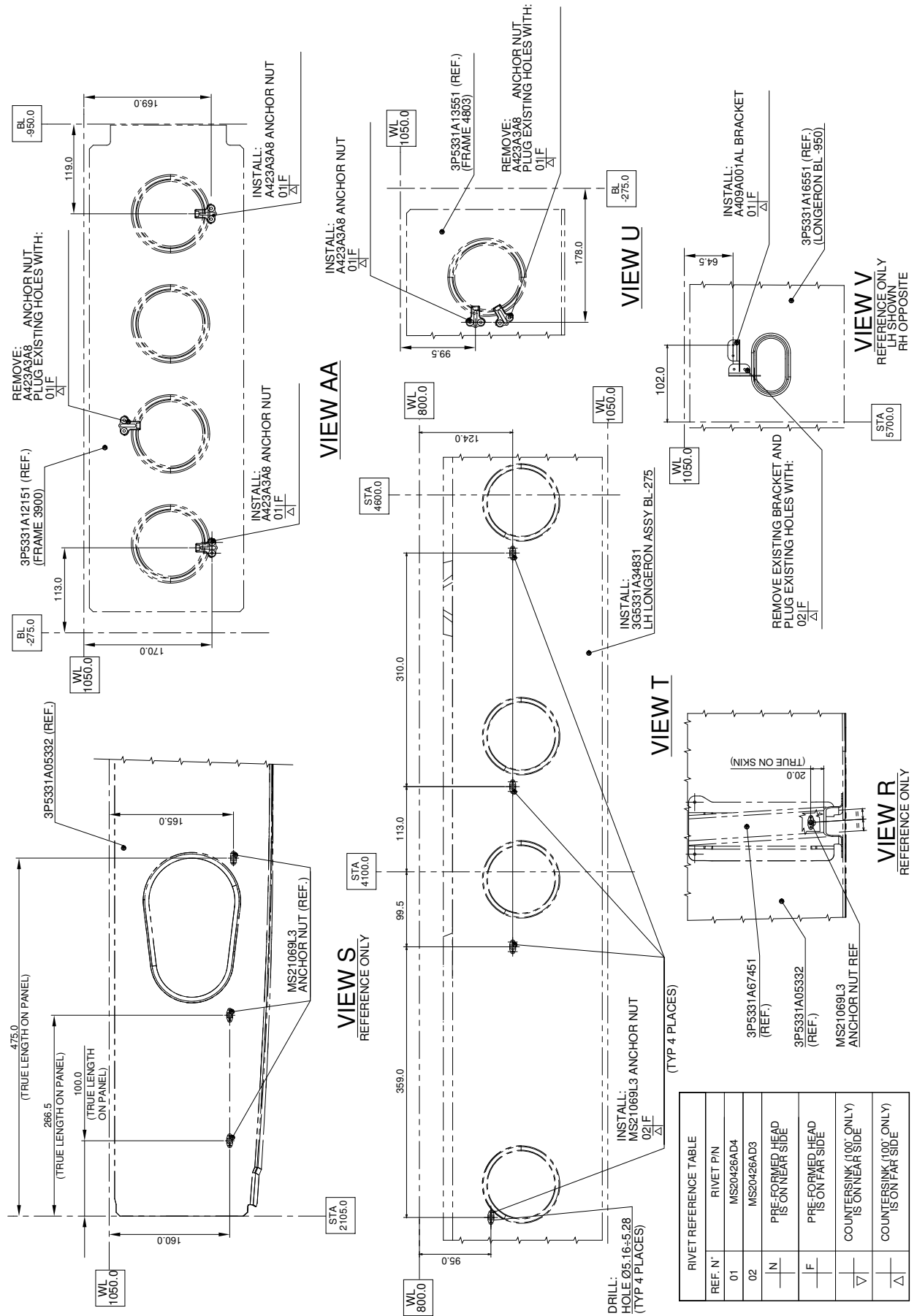


Figure 104

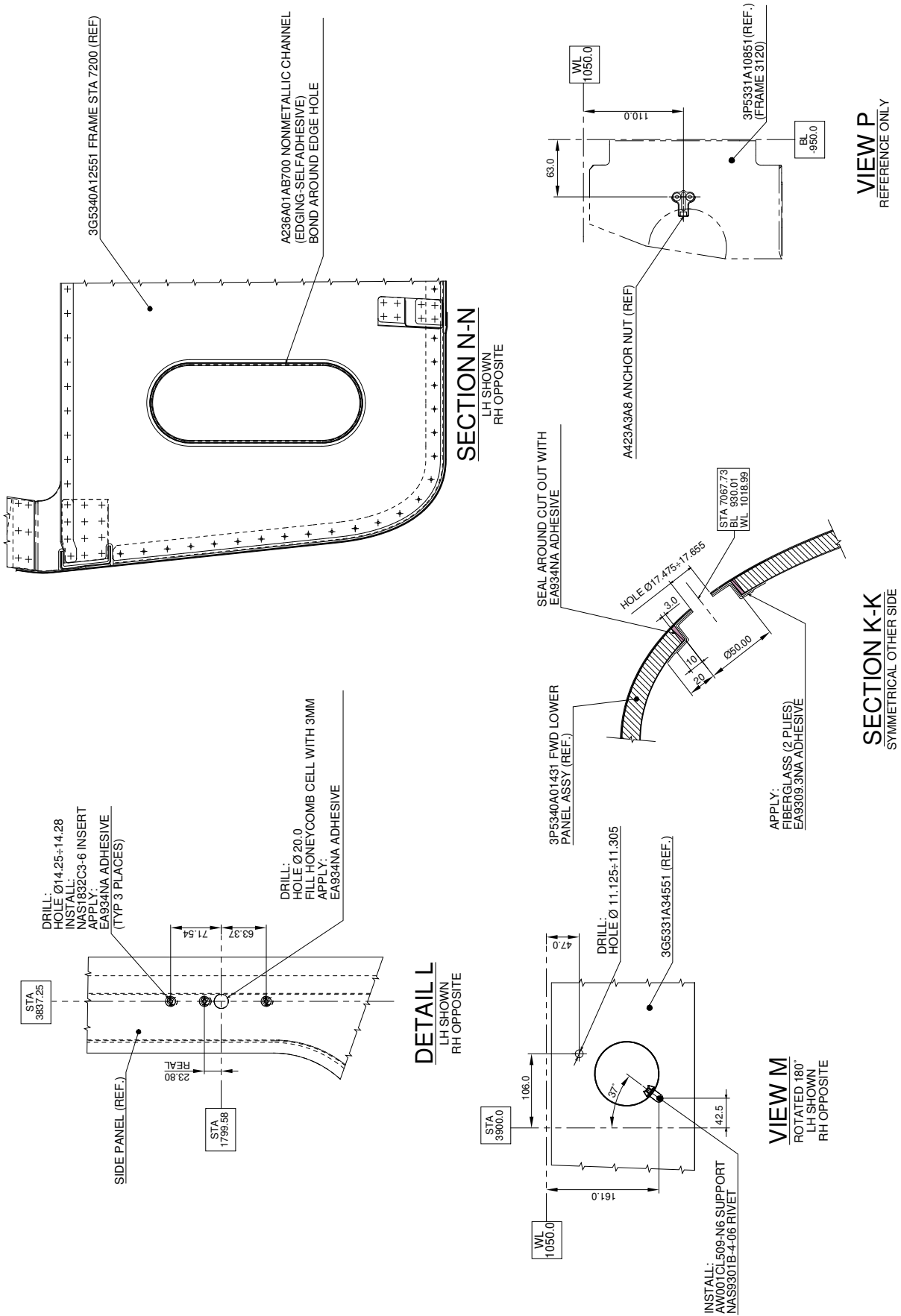


Figure 105





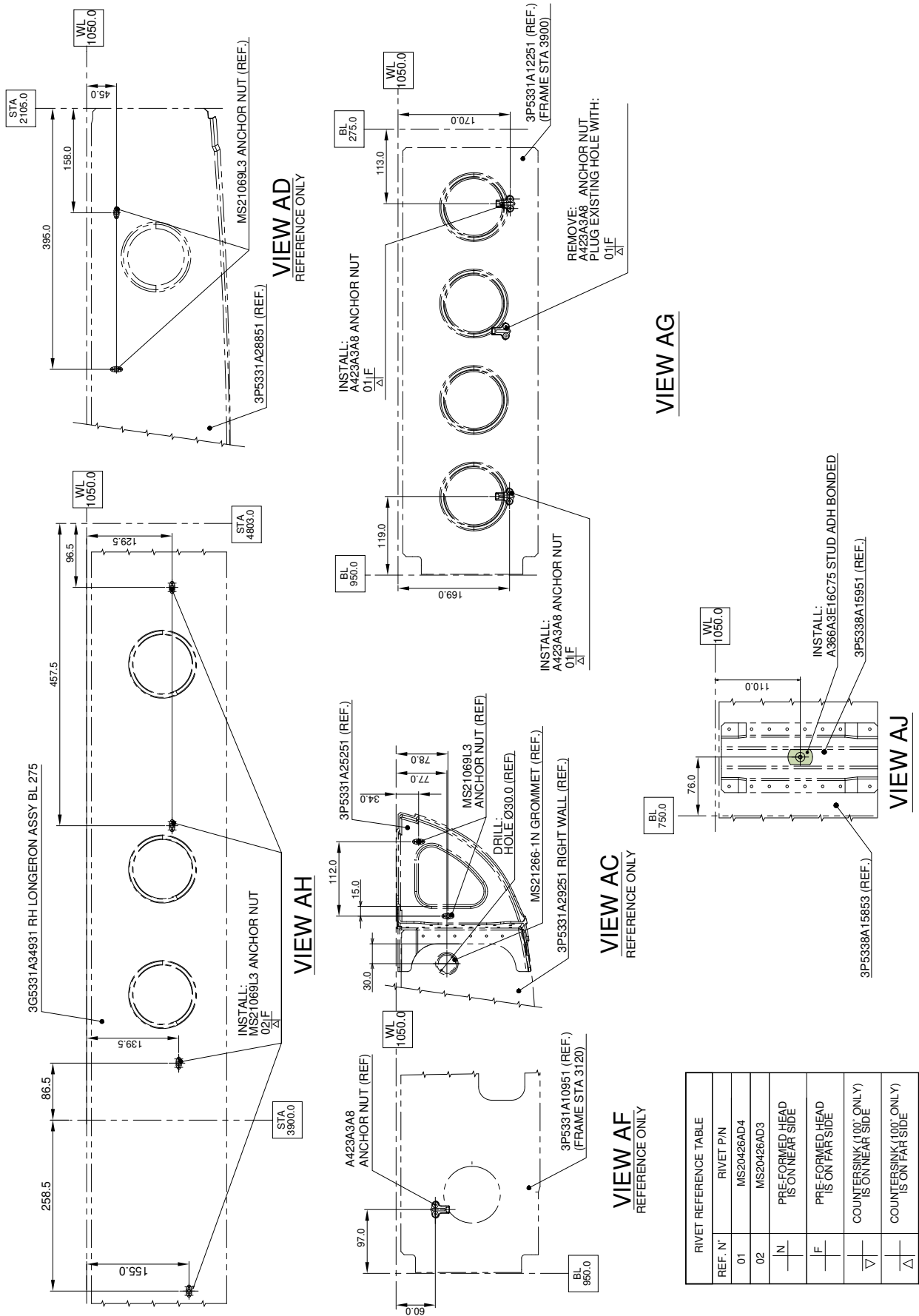
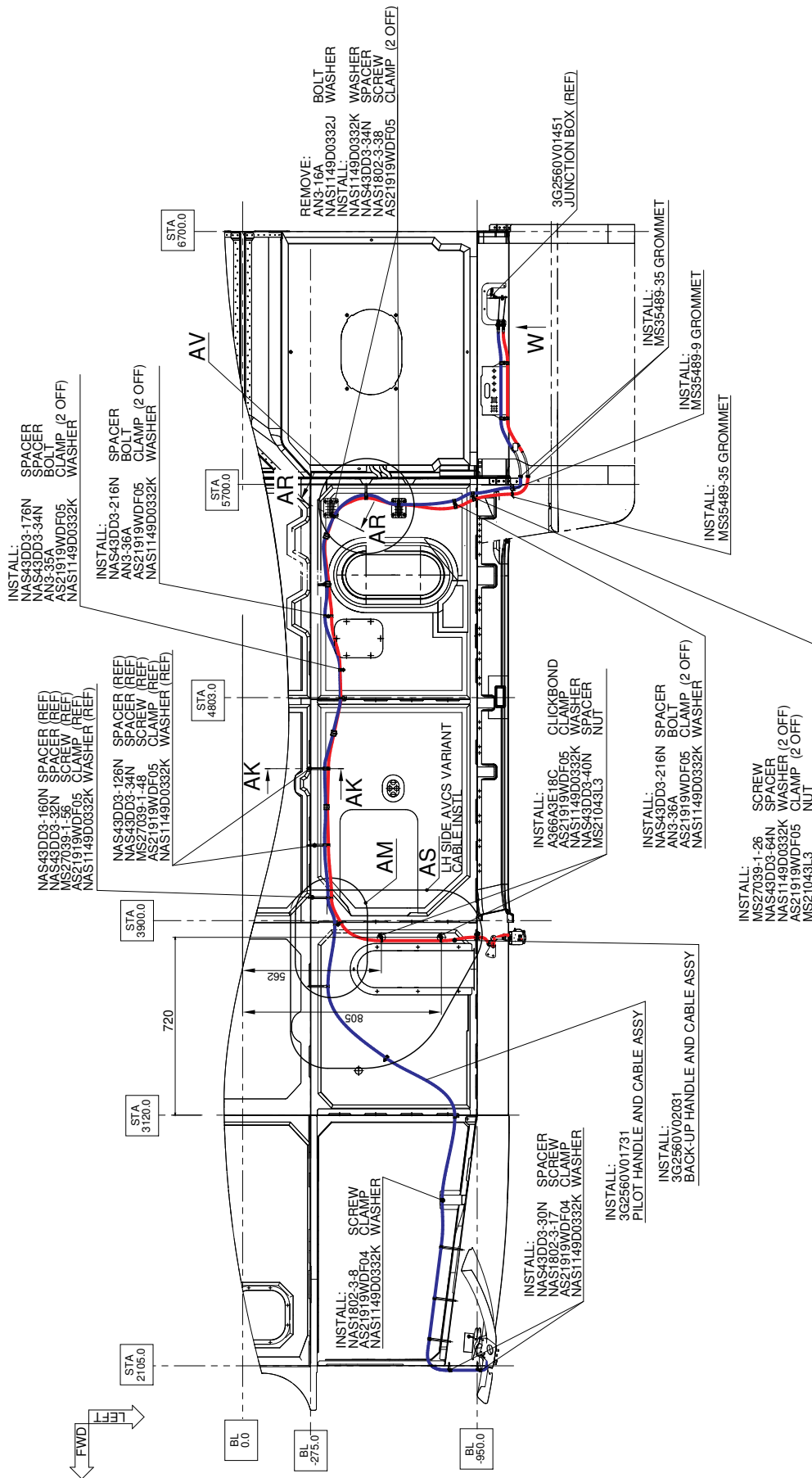


Figure 107



**Figure 108**



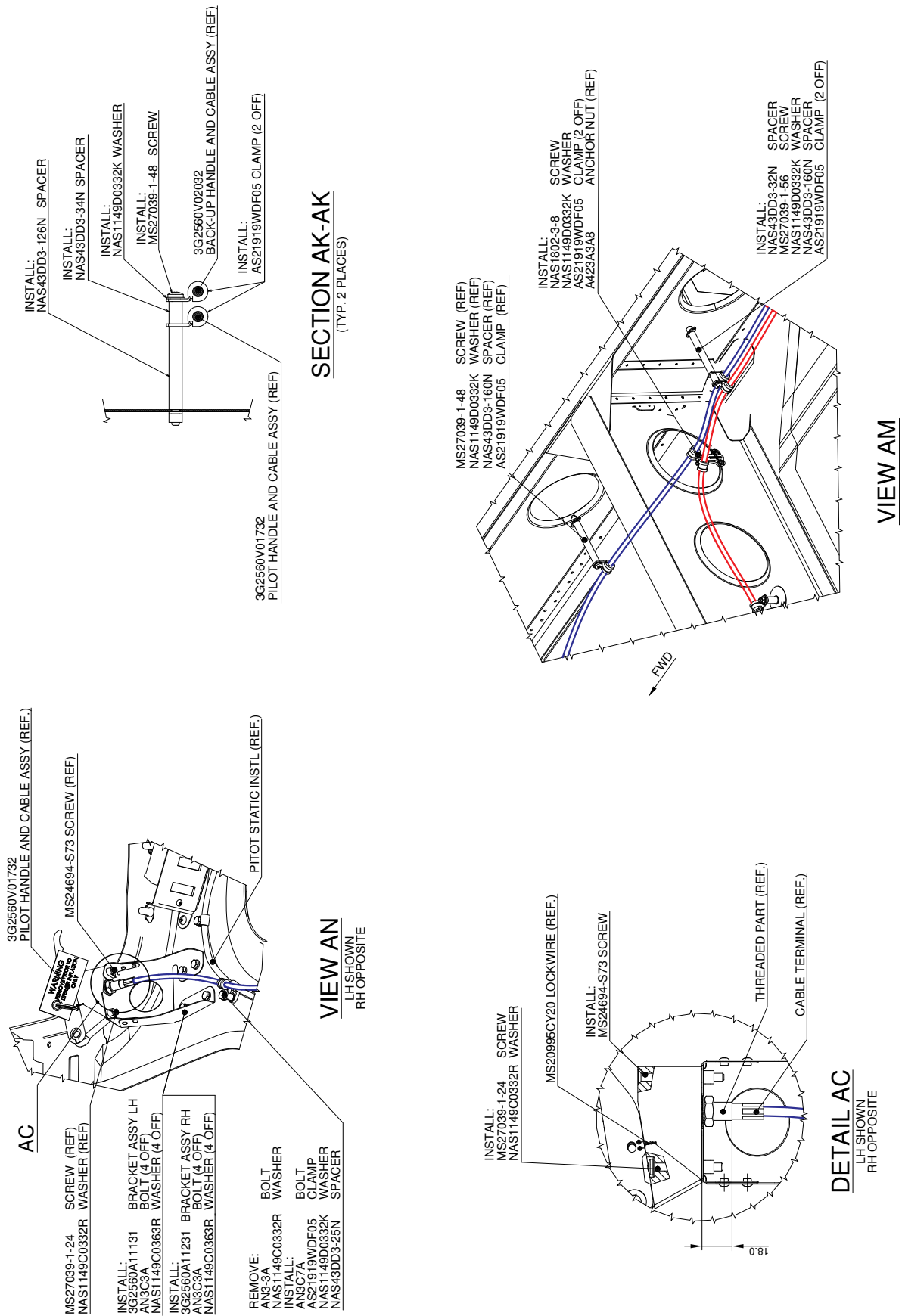


Figure 110



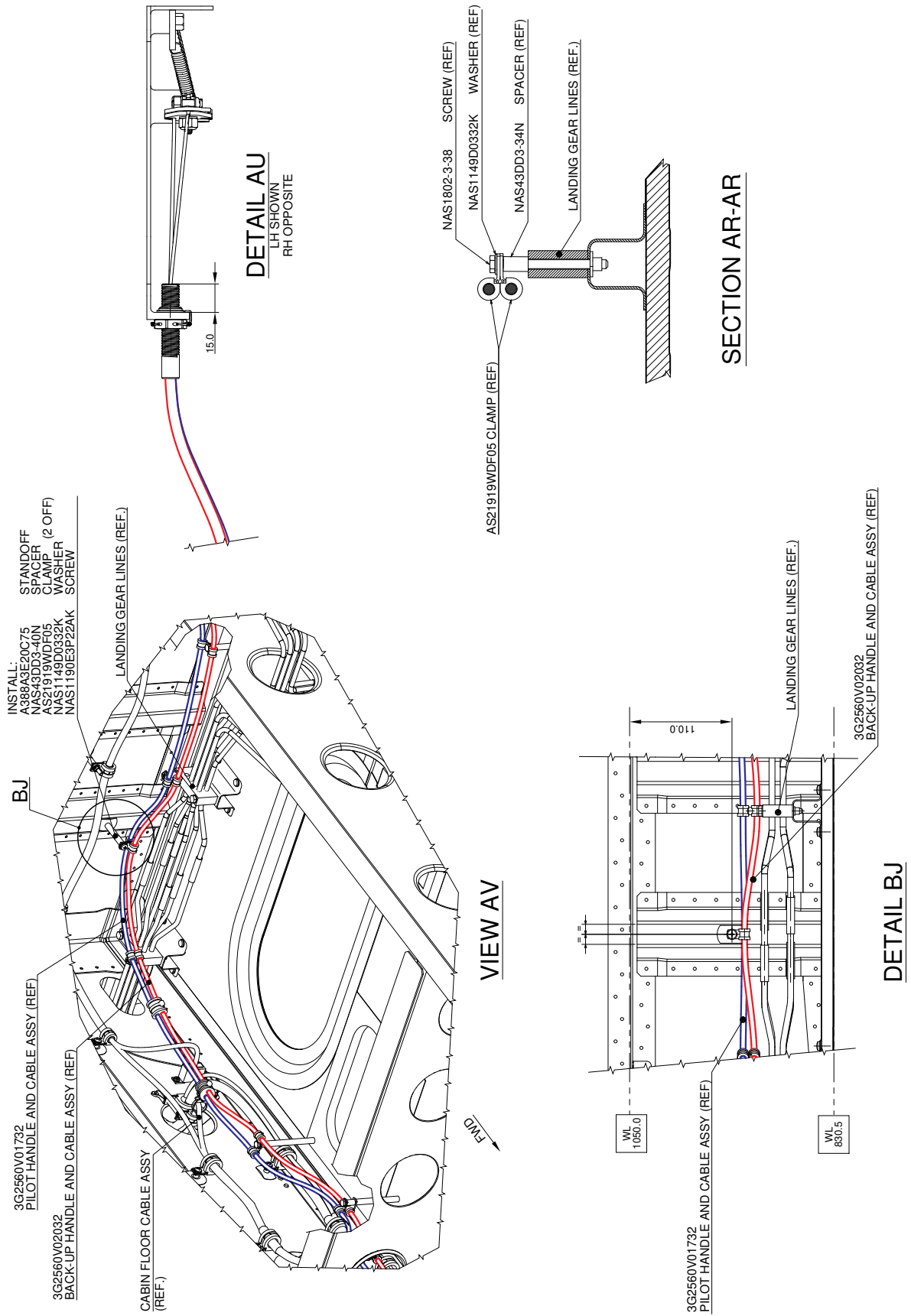
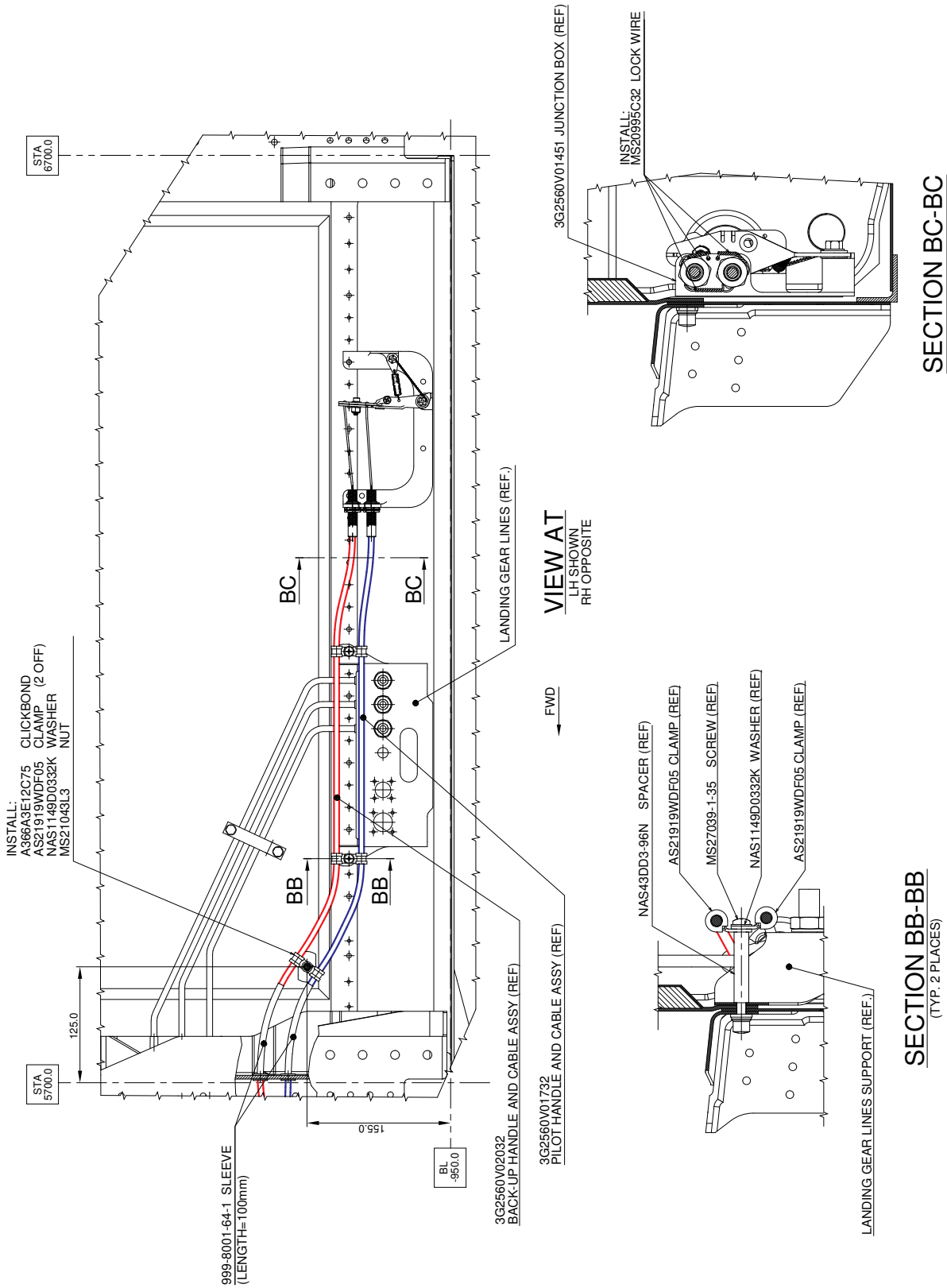
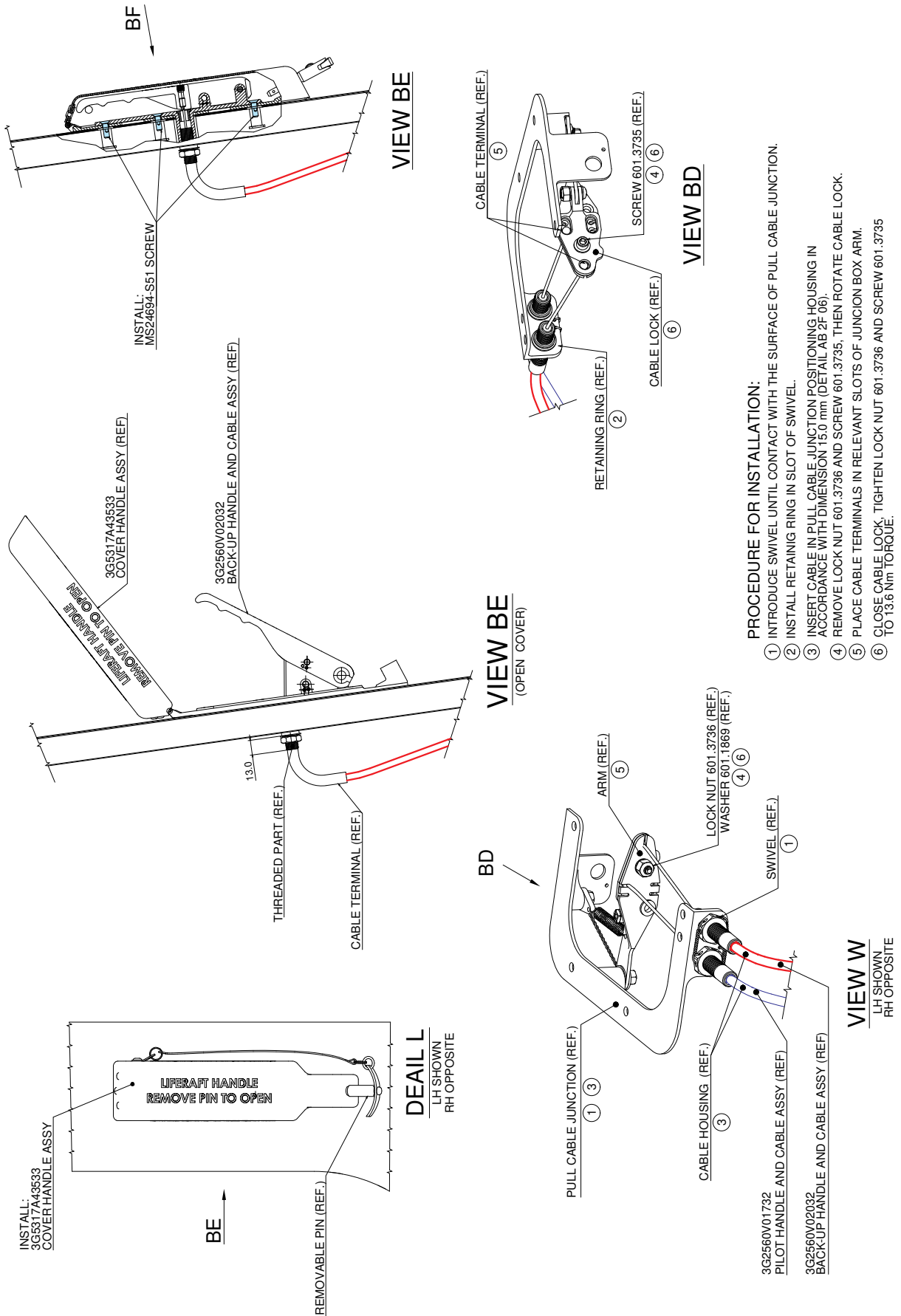


Figure 112

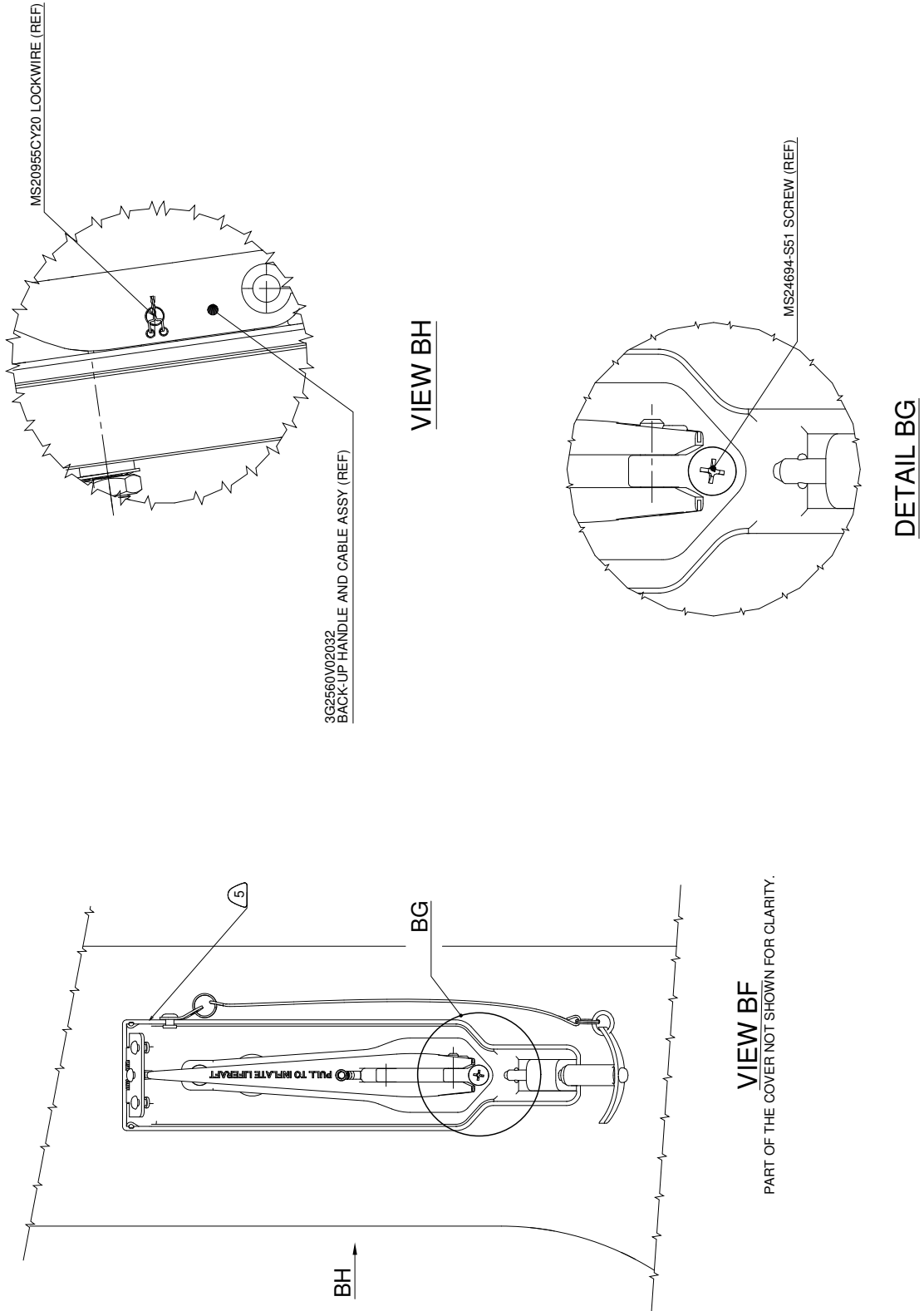


**Figure 113**

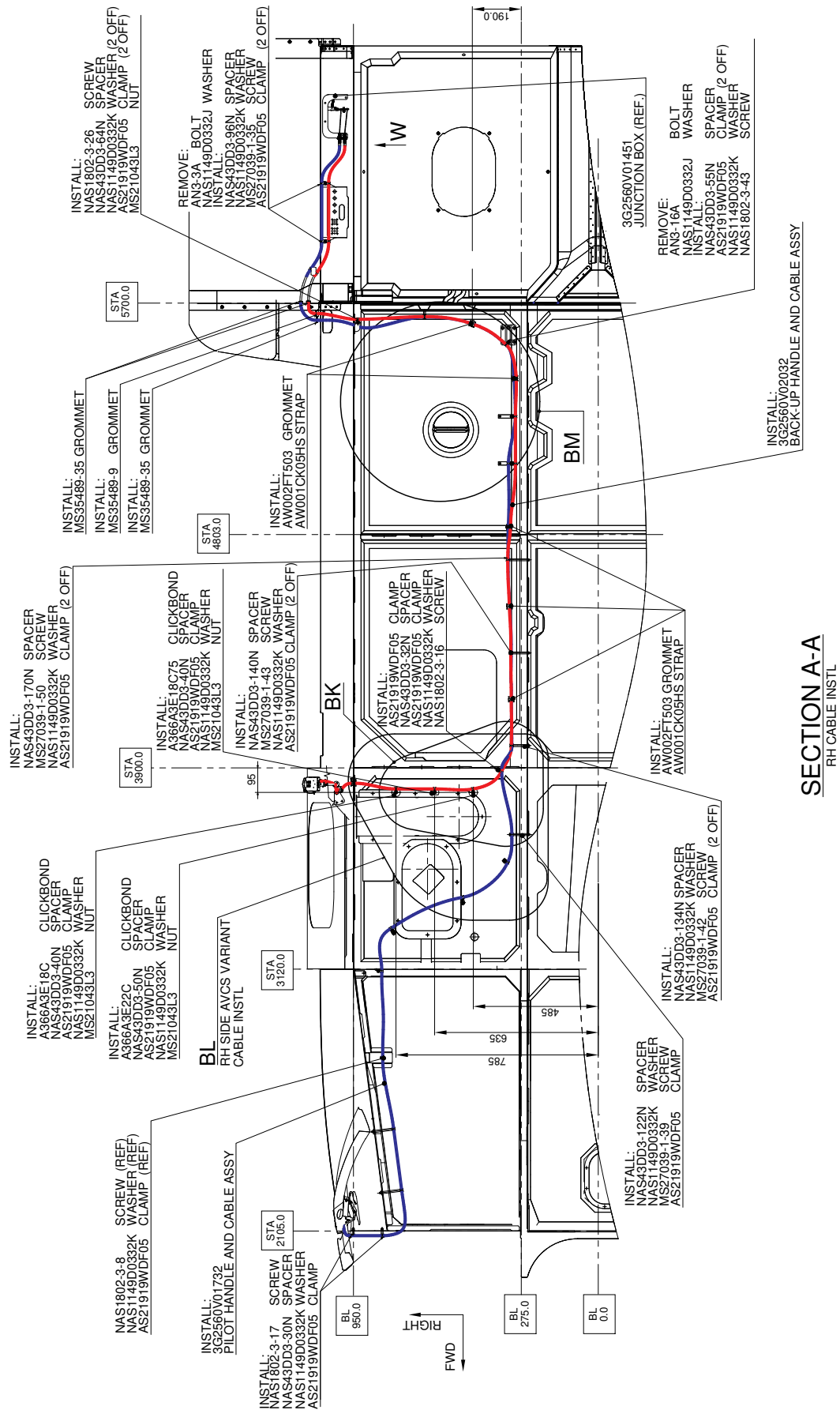




**Figure 114**



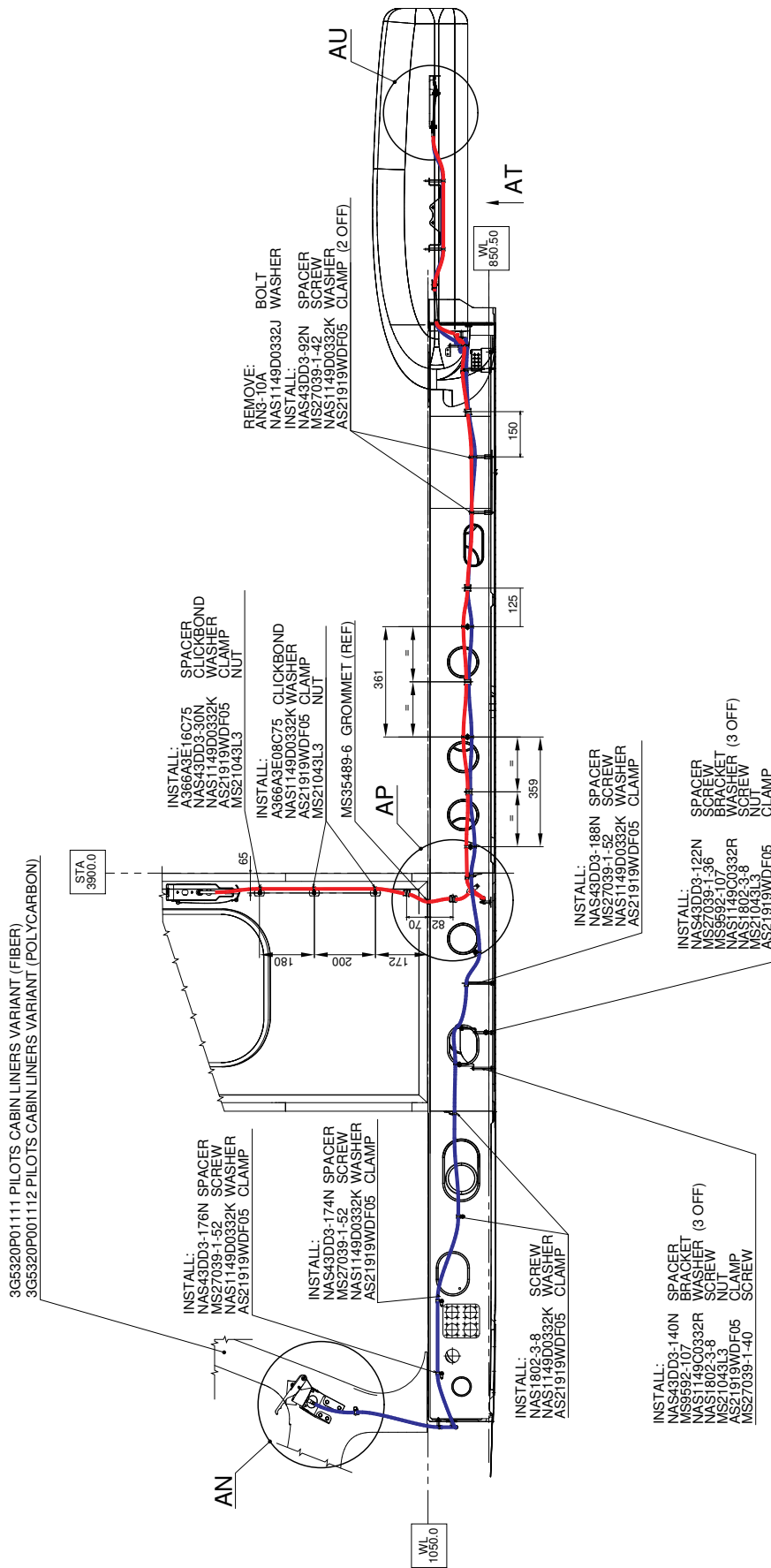
**Figure 115**



**SECTION A-A**  
RH CABLE INSTL

**Figure 116**

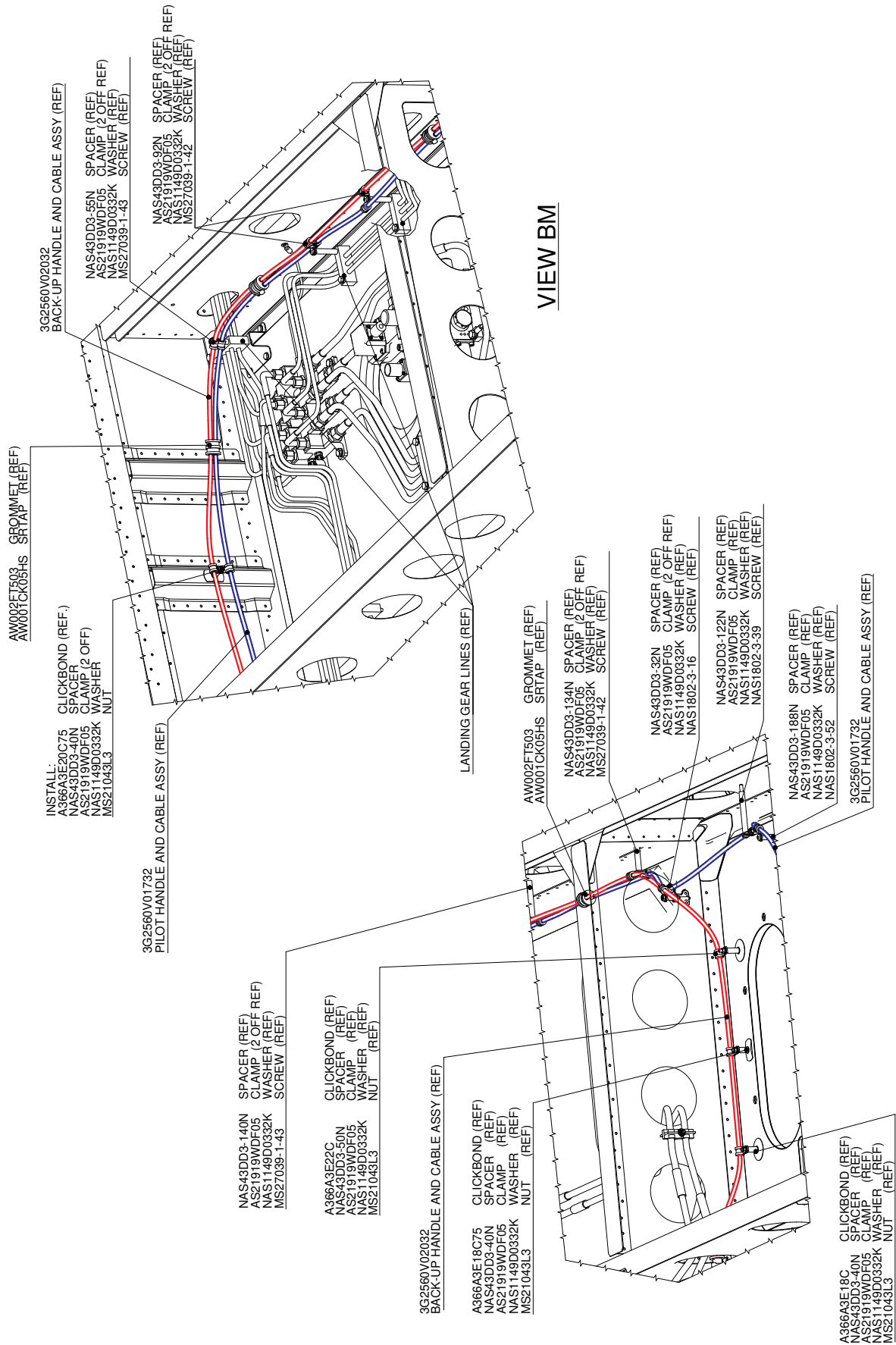
S.B. N°139-516  
DATE: January 18, 2022  
REVISION: /



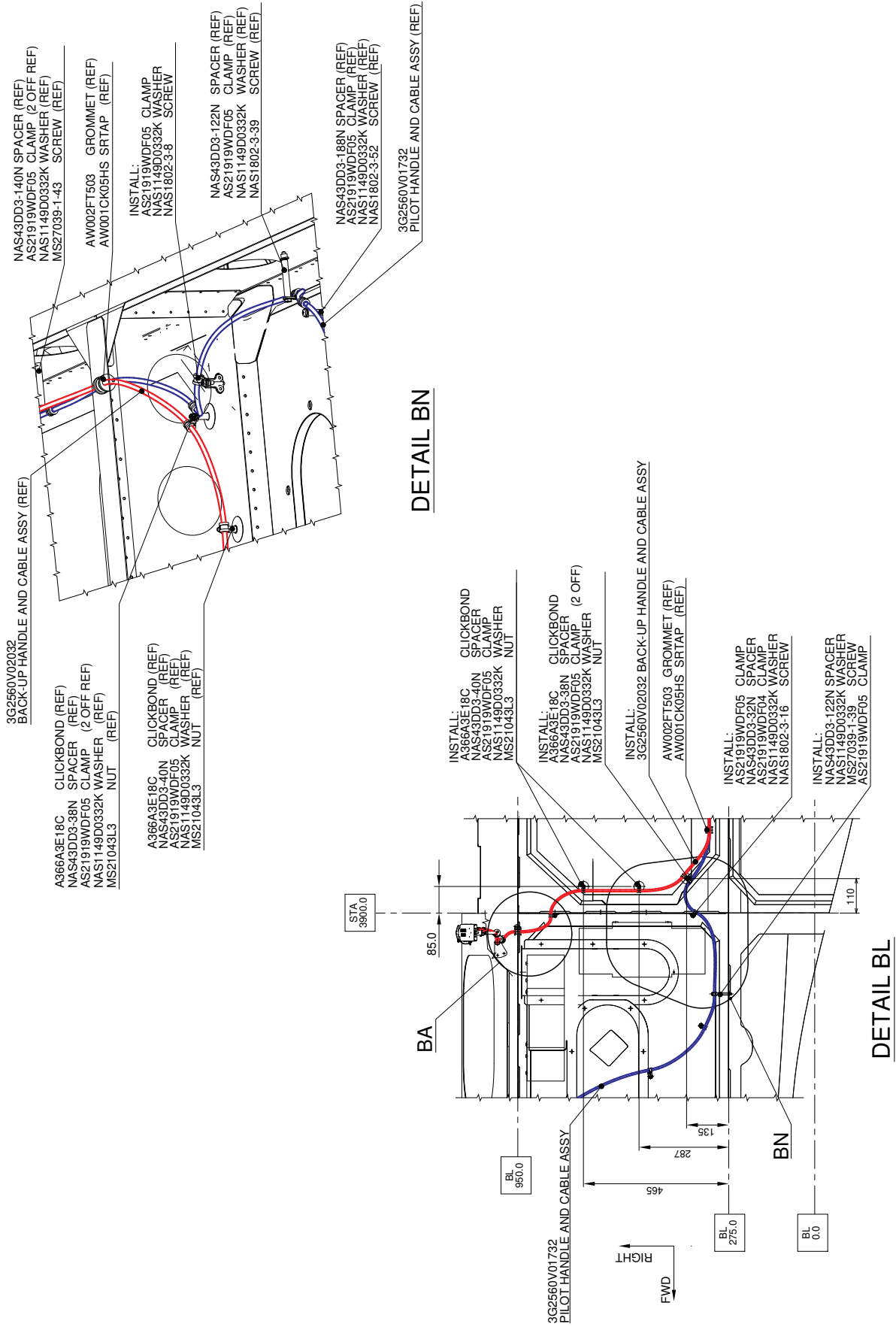
**LATERAL VIEW**  
RH CABLE INSTL

Figure 117

S.B. N°139-516  
DATE: January 18, 2022  
REVISION: /



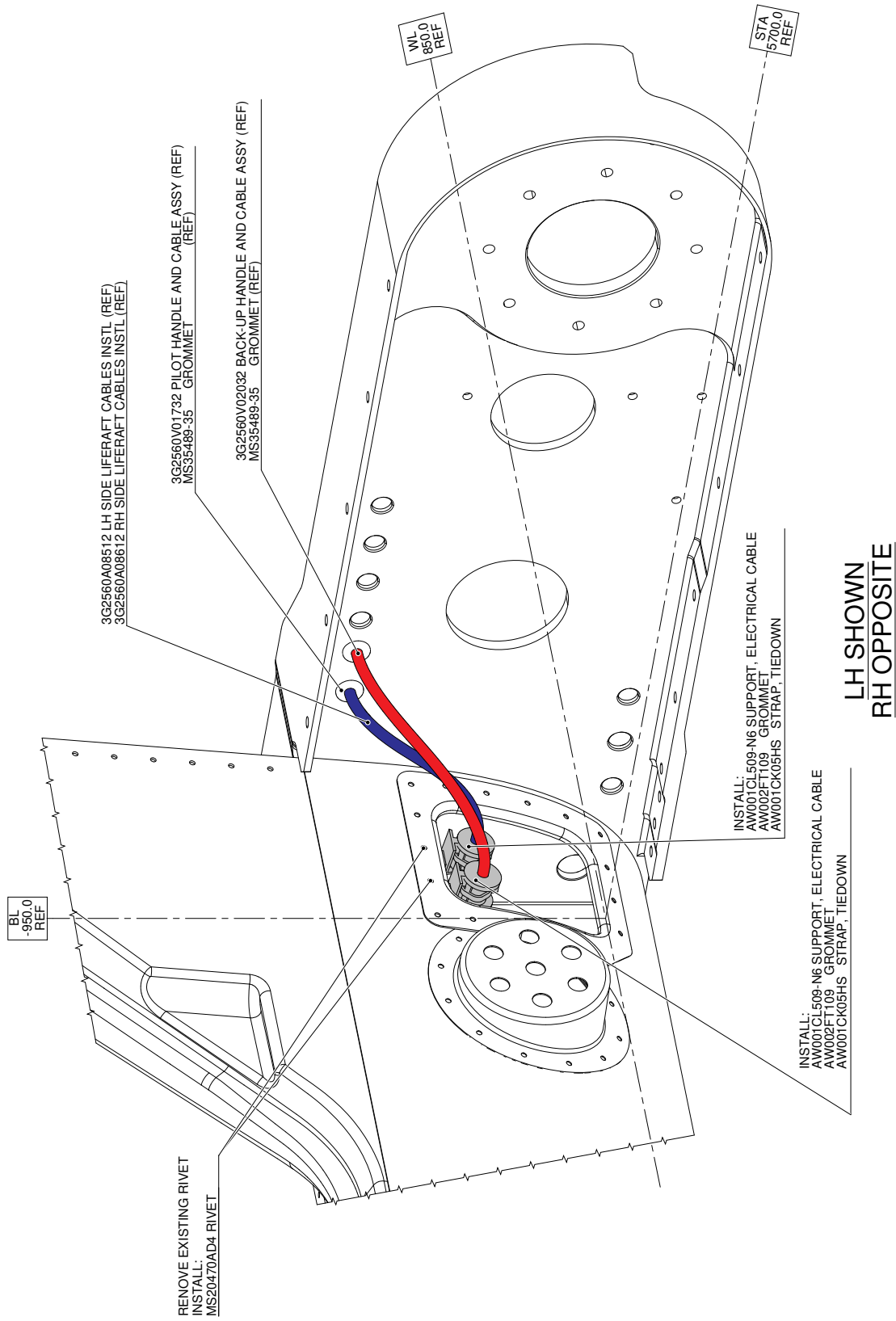
**Figure 118**



**Figure 119**



**3G2560P02811**  
**LIFERAFT CABLE INSTALLATION VARIANT**



**Figure 121**



