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AgustaWestland Products

SERVICE BULLETIN

N° 139-407

DATE: February 12, 2015

REV. : C - November 17, 2021

TITLE

ATA 71 - INLET BARRIER FILTER INSTALLATION

REVISION LOG

Helicopters that have complied with previous issues of this Service Bulletin do not need any additional action.

Revision C of this Service Bulletin has been issued to:

- Introduce new Manufacturing P/Ns;
- Introduce the logistic P/N 139-407L7 to identify possible hardware needed to complete the installation of the system;
- Update the Service Bulletin to the latest standards.

Revision bars identify changes.

1. PLANNING INFORMATION

A. EFFECTIVITY

Part I: AW139 helicopters from S/N 31201 to S/N 31398, from S/N 41201 to S/N 41293, from S/N 31400 to S/N 31699, from S/N 41300 to S/N 41499, from S/N 31700 onwards and from S/N 41501 onwards.

Part II: AW139 helicopters from S/N 31201 to S/N 31398, from S/N 41201 to S/N 41293, from S/N 31400 to S/N 31699, from S/N 41300 to S/N 41499, from S/N 31700 onwards and from S/N 41501 onwards equipped with IBF LH assy P/N 3G7160V03931.

Part III: AW139 helicopters from S/N 31201 to S/N 31398, from S/N 41201 to S/N 41293, from S/N 31400 to S/N 31699, from S/N 41300 to S/N 41499, from S/N 31700 onwards and from S/N 41501 onwards equipped with IBF complete provision P/N 3G7160A07811.

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 installation of the kit Inlet Barrier Filter P/N 4G7160F00111.

E. DESCRIPTION

The purpose of the IBF kit is to provide clean air to the engines by filtering the air flow through the helicopter engine air-intakes and retaining sand and dust particles.

The IBF is a passive filtering system and it does not require any interface with the engines.

The filtering function is achieved by the IBF upper and lower filter media, which are installed on dedicated structural provisions located outside of engine cowlings that incorporates also the by-pass system.

Dedicated afterward and forward fairings are also included in the IBF kit in order to achieve an efficient aerodynamic profile for the upper deck by connecting the cowling surface to the filter media.

Part I provides all necessary instructions on how to perform the installation of the Inlet Barrier Filter complete provision (structural and electrical) P/N 3G7160A07811. This part

also provides all necessary instructions on how to install the two relays K334 and K335 and modify the electrical connection installed with IBF complete provision.

Part II provides all necessary instructions on how to perform the installation of the IBF scoop P/N 3G7160P00251 on the IBF LH assy P/N 3G7160V03931. The new scoop allows the sensor to measure the correct external pressure.

Part III provides all necessary instructions on how to perform the installation of fixed and removable parts that belongs to IBF installation.

NOTE

Supplement n°86 of RFM (Rotorcraft Flight Manual) is dedicated to kit IBF and it contains information about limitations, procedures and performance data.

NOTE

This Service Bulletin introduces parts that are affected by airworthiness limitations. Refer to AMPI (Chapter 04) to update the Maintenance Planning.

F. APPROVAL

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

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

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

G. MANPOWER

To comply with this Service Bulletin, the following Maintenance-Man-Hours (MMH) are deemed necessary:

Part I: approximately one hundred and eighty (180) MMH;

Part II: approximately ten (10) MMH;

Part III: approximately sixty (60) MMH.

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

H. WEIGHT AND BALANCE

PART I

WEIGHT (kg)		2.54
	ARM (mm)	**MOMENT (kgmm)**
LONGITUDINAL BALANCE	5297	13454.38
LATERAL BALANCE	-80	-203.2

PART II

WEIGHT (kg)		0.028
	ARM (mm)	**MOMENT (kgmm)**
LONGITUDINAL BALANCE	7084	198.35
LATERAL BALANCE	-850	-23.8

PART III

WEIGHT (kg)		32.65
	ARM (mm)	**MOMENT (kgmm)**
LONGITUDINAL BALANCE	6636.21	216672.26
LATERAL BALANCE	-5.62	-183.49

I. REFERENCES

1) PUBLICATIONS

DATA MODULE		DESCRIPTION	PART
DM01	39-A-00-20-00-00A-120A-A	Helicopter on ground for a safe maintenance	I, II, III
DM02	39-A-06-41-00-00A-010A-A	Access doors and panels - General data	I
DM03	39-A-71-11-01-00A-520A-A	Number 1 engine access door - Remove procedure	I
DM04	39-A-71-11-02-00A-520A-A	Number 2 engine access door - Remove procedure	I
DM05	39-A-25-82-03-00A-520A-A	Left hinged lining panel - Remove procedure	I
DM06	39-A-25-82-04-00A-520A-A	Right hinged lining panel - Remove procedure	I
DM07	39-A-71-11-01-00A-720A-A	Number 1 engine access door - Install procedure	I
DM08	39-A-71-11-02-00A-720A-A	Number 2 engine access door - Install procedure	I
DM09	39-A-25-82-03-00A-720A-A	Left hinged lining panel - Install procedure	I

DATA MODULE		DESCRIPTION	PART
DM10	39-A-25-82-04-00A-720A-A	Right hinged lining panel - Install procedure	I
DM11	39-A-11-00-01-00A-720A-A	Decal - Install procedure	I
DM12	39-A-24-91-04-00A-920A-K	Integrally lighted panel - Replacement	I
DM13	39-A-71-61-00-00A-320A-K	Inlet Barrier Filter (IBF) system - Operation test	III
DM14	39-A-20-10-08-00A-622A-A	Electrical contacts - Crimp	I
DM15	39-A-20-10-18-00A-691A-A	Electrical wires and cables – Marking	I

2) ACRONYMS

AMP	Aircraft Maintenance Publication
AMDI	Aircraft Material Data Information
AMP	Aircraft Maintenance Publication
AMPI	Air vehicle Maintenance Planning Information
DM	Data Module
DOA	Design Organization Approval
EAPS	Engine Air Particle Separator
EASA	European Aviation Safety Agency
FH	Flight Hours
IBF	Inlet Barrier Filter
IPD	Illustrated Parts Data
ITEP	Illustrated tool and equipment publication
LHD	Leonardo Spa Helicopters
MMH	Maintenance Man Hours

3) ANNEX

N.A.

J. PUBLICATIONS AFFECTED

AW139 AMP

AW139 IPD

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	**4G7160F00111**		**KIT INLET BARRIER FILTER**	**REF**	**.**		**-**
2	**3G7160A07811**		**INLET BARRIER FILTER COMPLETE PROVISION**	**REF**	**..**		**-**
3	**3G5310A83011**		**IBF STRUCTURAL PROVISION**	**REF**	**...**		**-**
4	3G5310A83151		Doubler	1	....		139-407L1 139-407L5 139-407L7
5	3G5310A83251	3G5310A83251M01	Doubler	1	....		139-407L1 139-407L5 139-407L7
6	3G5310A83351	3G5310A83351M01	Doubler	2	....		139-407L1 139-407L5 139-407L7
7	3G5310A83451		Doubler	1	....		139-407L1 139-407L5 139-407L7
8	3G5310A91531		Doubler assy	2	....		139-407L1 139-407L5 139-407L7
9	3G5310A93251	3G5310A93251M01	Doubler	2	....		139-407L1 139-407L5 139-407L7
10	3G5310A99531		Doubler assy	2	....		139-407L1 139-407L5 139-407L7
11	3G5310A99651	3G5310A99651M01	Doubler scoop internal RH	1	....		139-407L1 139-407L5 139-407L7
12	3G5310A99751	3G5310A99751M01	Doubler scoop internal LH	1	....		139-407L1 139-407L5 139-407L7
13	3G5310A99851	3G5310A99851M01	Doubler small scoop LH	1	....		139-407L1 139-407L5 139-407L7
14	3G5310A99951	3G5310A99951M01	Doubler small scoop RH	1	....		139-407L1 139-407L5 139-407L7
15	3G5311A02351	3G5311A02351M01	Doubler	1	....		139-407L1 139-407L5 139-407L7
16	3G5311A02451	3G5311A02451M01	Doubler	1	....		139-407L1 139-407L5 139-407L7
17	3G5311A02551		Doubler	1	....		139-407L1 139-407L5 139-407L7
18	3G5311A05231		Closure plate	2	....		139-407L1 139-407L5 139-407L7
19	3G5311A09451	3G5311A09451M01	Doubler	2	....		139-407L1 139-407L5 139-407L7

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
20	3G7113A00131		Strut assy	2	....		139-407L1 139-407L5 139-407L7
21	A364A3	AW013TB3	Bolt	2	....		139-407L1 139-407L5 139-407L7
22	AN525-10R7		Screw	44	....		139-407L1 139-407L5 139-407L7
23	MS21061L3		Anchor nut	2	....		139-407L1 139-407L5 139-407L7
24	MS21076L3N		Anchor nut	40	....		139-407L1 139-407L5 139-407L7
25	MS24693-C48		Screw	6	....		139-407L1 139-407L5 139-407L7
26	MS35206-214		Screw	8	....		139-407L1 139-407L5 139-407L7
27	NAS1149CN432R		Washer	8	....		139-407L1 139-407L5 139-407L7
28	**3G7160A07911**		**IBF ELECTRICAL PROVISION**	**REF**	**...**		**-**
29	3G9A01A51501	3G7160A07911A1R or 3G7160A07911A9R	Inlet barrier filter cable assy (A1A515)	1	....	(14)	139-407L1 139-407L5 139-407L7
30	3G9A02A44501		Inlet barrier filter cable assy (A2A445)	1	....		139-407L1 139-407L5 139-407L7
31	3G9A01B47901	3G7160A07911A4R	Inlet barrier filter cable assy (A1B479)	1	....		139-407L1 139-407L5 139-407L7
32	3G9A02B45001		Inlet barrier filter cable assy (A2B450)	1	....		139-407L1 139-407L5 139-407L7
33	3G9B01A74001		Inlet barrier filter cable assy (B1A740)	1	....		139-407L1 139-407L5 139-407L7
34	3G9B01A88901	3G7160A07911A3R	Inlet barrier filter cable assy (B1A889)	1	....		139-407L1 139-407L5 139-407L7
35	3G9B02A77901		Inlet barrier filter cable assy (B2A779)	1	....		139-407L1 139-407L5 139-407L7
36	3G9B01B76301	3G7160A07911A2R	Inlet barrier filter cable assy (B1B763)	1	....		139-407L1 139-407L5 139-407L7
37	3G9B02B46901		Inlet barrier filter cable assy (B2B469)	1	....		139-407L1 139-407L5 139-407L7
38	3G9C02A33901		Inlet barrier filter cable assy (C2A339)	1	....		139-407L1 139-407L5 139-407L7
39	3G9C02B30301		Inlet barrier filter cable assy (C2B303)	1	....		139-407L1 139-407L5 139-407L7
40	3G9F02A21801	3G7160A07911A5R	Inlet barrier filter cable assy (F2A218)	1	....	(1)	139-407L1
		3G7160A07911A7R		1	....	(5)	139-407L5
		3G7160A07911A10R		1	....	(13)	139-407L7
41	3G9F02B21401	3G7160A07911A6R	Inlet barrier filter cable assy (F2B214)	1	....	(1)	139-407L1
		3G7160A07911A8R		1	....	(5)	139-407L5
		3G7160A07911A11R		1	....	(13)	139-407L7

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
42	A364A3	AW013TB3	Bolt	2	....		139-407L1 139-407L5 139-407L7
43	AW001CB04H		Clamp	10	....		139-407L1 139-407L5 139-407L7
44	AW001CL001-N6		Support	1	....		139-407L1 139-407L5 139-407L7
45	ED300J138		Decal	1	....		139-407L1 139-407L5 139-407L7
46	ED300K334		Decal	1	....		139-407L1 139-407L5 139-407L7
47	ED300K335		Decal	1	....		139-407L1 139-407L5 139-407L7
48	M23053/5-106-0		Insulation sleeve	1 m	....		139-407L1 139-407L5 139-407L7
49	M83536/2-028M		Relay	2	....		139-407L1 139-407L5 139-407L7
50	M85049/95-25A-A		Plate	1	....		139-407L1 139-407L5 139-407L7
51	MS21043-3		Nut	2	....		139-407L1 139-407L5 139-407L7
52	NAS1149D0332J		Washer	4	....		139-407L1 139-407L5 139-407L7
53	NAS1149DN616J		Washer	4	....		139-407L1 139-407L5 139-407L7
54	NAS1802-06-8		Screw	4	....		139-407L1 139-407L5 139-407L7
55	NAS1802-3-7		Screw	2	....		139-407L1 139-407L5 139-407L7
56	NAS43DD3-26N		Spacer	2	....		139-407L1 139-407L5 139-407L7
57	NAS813-14		Plug	2	....		139-407L1 139-407L5 139-407L7
58	A523A-A01		Electrical Contact	5	....		139-407L1 139-407L5 139-407L7
59	A523A-A02		Electrical Contact	5	....		139-407L1 139-407L5 139-407L7
60	A523A-A05		Electrical Contact	1	....		139-407L1 139-407L5 139-407L7
61	M39029/56-348		Electrical Contact	55	....		139-407L1 139-407L5 139-407L7
62	M39029/56-351		Electrical Contact	30	....		139-407L1 139-407L5 139-407L7
63	M39029/57-354		Electrical Contact	10	....		139-407L1 139-407L5 139-407L7

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
64	M39029/58-360		Electrical Contact	25	....		139-407L1 139-407L5 139-407L7
65	M39029/58-363		Electrical Contact	20	....		139-407L1 139-407L5 139-407L7
66	A556A-T22		Electrical wire	2 m	....		139-407L1 139-407L5 139-407L7
67	A574A01-01		Insulation sleeve	5	....		139-407L1 139-407L5 139-407L7
68	A582A32	EN6049-006-32-5	Nomex Sleeve	1 m	....		139-407L1 139-407L5 139-407L7
69	**3G7160P00711**		**IBF PIN ALIGNMENT VARIANT**	**REF**	**..**	(7)	-
70	3G9A01A70701		Inlet barrier filter pin alignment cable assy (A1A707)	REF	...	(8)	-
71	3G9A01B64801		Inlet barrier filter pin alignment cable assy (A1B648)	REF	...	(9)	-
72	3G9A02A63601		Inlet barrier filter pin alignment cable assy (A2A636)	REF	...	(10)	-
73	3G9A02B61401		Inlet barrier filter pin alignment cable assy (A2B614)	REF	...	(11)	-
74	AW001CL001-N6		Support	2	...		139-407L1 139-407L5 139-407L7
75	A523A-B02		Electrical contact	8	..	(2)	139-407L4
76	M12883/52-001		Relay socket	2	..	(2)	139-407L4
77	M83536/2-028M		Relay	2	..	(2)	139-407L4
78	A556A-T22		Electrical wire	30 m	..	(2)	139-407L4
79	A578A05-9		Marker sleeve	20	..	(2)	139-407L4
80	M39029/56-351		Electrical contact	2	..	(2)	139-407L4
81	M39029/57-354		Electrical contact	2	..	(2)	139-407L4
82	M81824/1-2		Splice	2	..	(2)	139-407L4
83	ED300K334		Decal	1	..	(2)	139-407L4
84	ED300K335		Decal	1	..	(2)	139-407L4
85	**3G5310A89111**		**IBF STRUCTURAL PROVISION**	**REF**	**...**		**-**
86	A414A04C238A1		Support	1	....		139-407L1 139-407L5 139-407L7
87	AGS4719-508	NAS1720H5L2A	Rivet	3	....		139-407L1 139-407L5 139-407L7

PART II

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
88	**4G7160F00111**		**KIT INLET BARRIER FILTER**	**REF**	**.**		**-**
89	**3G7160P00111**		**INLET BARRIER FILTER SCOOP RETRO-MOD**	**REF**	**..**		**-**
90	3G7160P00251		Scoop	1	...		139-407L2
91	AN525-832R7		Screw	4	...		139-407L2
92	MS21075L08	MS21075L08N	Nut plate	4	...		139-407L2
93	A954AS040EN		Stencil	1	...		139-407L2

PART III

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
94	**4G7160F00111**		**KIT INLET BARRIER FILTER**	**REF**	.		-
95	**3G7160A07711**		**INLET BARRIER FILTER FIXED PARTS**	**REF**	..		-
96	3G7160V04151		Inlet barrier filter control panel	1	...		139-407L3
97	**3G7160A08011**		**INLET BARRIER FILTER REMOVABLE PARTS**	**REF**	..		-
98	3G7160A01751		Cover	2	...		139-407L3
99	3G7160A04331	3G7160A04331A1	Upper cover assy LH	1	...		139-407L3
100	3G7160A04431	3G7160A04431A1	Upper cover assy RH	1	...		139-407L3
101	3G7160A08131	3G7160A05632 or 3G7160A05632A or 3G7160A08131A	Frame 3 assy LH	1	...		139-407L3
102	3G7160A08331	3G7160A05732 or 3G7160A05732A or 3G7160A08331A	Frame 3 assy RH	1	...		139-407L3
103	3G7160A08531		Bracket assy LH	1	...		139-407L3
104	3G7160A08631		Bracket assy RH	1	...		139-407L3
105	3G7160V03931		Inlet barrier filter assy LH	1	...		139-407L3
106	3G7160V04031		Inlet barrier filter assy RH	1	...		139-407L3
107	A954AE040EJ		Stencil	2	...		139-407L3
108	A954AF090EN		Stencil	2	...		139-407L3
109	A954AS040EN		Stencil	2	...		139-407L3
110	AN525-10R8		Stencil	42	...		139-407L3
111	MS21042L04		Self-locking nut	8	...		139-407L3
112	MS21043-3		Self-locking nut	2	...		139-407L3
113	AS21919WDG07	MS21919WDG7	Clamp	8	...		139-407L3
114	MS35206-215		Screw	8	...		139-407L3
115	NAS1149C0332R		Washer	6	...		139-407L3
116	NAS1149CN432R		Washer	16	...		139-407L3
117	NAS1149D0316J		Washer	86	...		139-407L3
118	NAS43HT3-17		Spacer	2	...		139-407L3
119	NAS6203-2		Bolt	2	...		139-407L3
120	NAS6203-4		Bolt	38	...		139-407L3
121	NAS6203-7		Bolt	2	...		139-407L3
122	NAS6603-2		Bolt	6	...		139-407L3
123	A966A080EB		Extrusion non metallic	2 m	...		139-407L3
124	A115A1616AB		Silicone rubber	5 m	...		139-407L3
125	NAS1200M4-3		Rivet	0.1 kg	.		139-407L6
126	NAS1721C4L2P		Rivet	20	.		139-407L6
127	MS20427M3-7		Rivet	0.1 kg	.		139-407L6
128	MS21076-3	MS21076-3N	Anchor nut	10	.		139-407L6
129	NAS1802-3-8		Screw	10	.		139-407L6
130	NAS1149C0332R		Washer	10	.		139-407L6
131	AN525-10R9		Screw	50	.		139-407L6
132	MS21074-3K		Anchor nut	4	.		139-407L6
133	MS21062-3K		Anchor nut	4	.		139-407L6
134	MS21060-3K		Anchor nut	12	.		139-407L6
135	MS21050-3K		Anchor nut	14	.		139-407L6

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
136	MS20427M3-4		Insert	0.1 kg	.		139-407L6

2) CONSUMABLES

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

#	Spec./LHD code number	DESCRIPTION	Q.TY	NOTE	PART
137	199-05-152 Ty II Code No. 900002979	RBR Adhesive RTV106 (C142)	AR	(12)	All
138	199-05-152 Ty I Cl 2 Code No. 900002980	Adhesive RTV732	AR	(12)	All
139	MIL-S-38249 Ty I A+B Code No. 500203980	Proseal 700 (C032)	AR	(12)	All
140	199-05-004 Ty II, Cl B2 Code No. 900001586 (AMS-S-8802)	Proseal 890B2 (C153)	AR	(12) (15)	All
141	Raychem S1125 Code No. 500218739	Adhesive S1125 (C373)	AR	(12)	All
142	CCC-C-46 / Code No. 42501025	Soft lint-free cloth (C011)	AR	(12)	All
143	P-D-680 type II Code No. 505405407	Cleaning solvent Ardrox 5503 (C010)	AR	(12)	All
144	TT-N-95-B / Code No. 531055030	Aliphatic Naphtha (C059)	AR	(12)	All
145	TT-M-261 / Code No. 32002675	Methyl-Ethyl-Ketone (C005)	AR	(12)	All
146	900004953 or AW001CK03LC	Tape, lacing and tying	AR	(12)	All
147	Commercial	Gloves	AR	(12)	All
148	Commercial	Toluol (C040)	AR	(12)	All
149	Commercial	Isopropyl alcohol (C039)	AR	(12)	All
150	100100-080	Oil Filter (8 oz)	AR	(12)	All
151	MS20615-4M4	Rivet	0.1 kg	(12)	All
152	NAS1200-3-3	Rivet	AR	(12)	All
153	NAS1200-3-3-5	Rivet	AR	(12)	All
154	NAS1200M3-3-5	Rivet	AR	(12)	All
155	NAS1200M3-4-5	Rivet	AR	(12)	All
156	MS20995C32	Lock wire	0.45 Kg	(12)	All
157	MS20427M3-7	Rivet	0.1 Kg	(12)	All

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
139-407L1	1	(1)	Part I
139-407L5	1	(5)	
139-407L4	1	(2)	
139-407L7	1	(13)	
139-407L2	1	(3)	Part II
139-407L3	1	(4)	Part III
139-407L6	1		

NOTES

(1) Item to be ordered only for all AW139 helicopters from S/N 31201 to S/N 31699 and from S/N 41300 to S/N 41499 not equipped with IBF electrical installation P/N 3G7160A07911.

(2) Item to be ordered only for AW139 helicopters from S/N 31201 onwards and from S/N 41300 onwards already equipped with IBF electrical installation P/N 3G7160A07911 without the relay K334 and K335.

(3) Item to be ordered only for all AW139 helicopters from S/N 31201 onwards and from S/N 41300 onwards equipped with IBF LH assy P/N 3G7160V03931.

(4) Item to be ordered only for all AW139 helicopters from S/N 31201 onwards and from S/N 41300 onwards equipped with IBF complete provision P/N 3G7160A07811.

(5) Item to be ordered only for all AW139 helicopters from S/N 31700 to S/N 31801 and from S/N 41501 onwards not equipped with IBF electrical installation P/N 3G7160A07911.

(6) This oil filter is part of the IBF assy. It may be supplied as P/N 100100-130 or P/N 100100-140 or equivalent depending on the packaging/bottle.

(7) Applicable only to helicopters from S/N 31201 to S/N 31398 and from S/N 41201 to S/N 41293.

(8) This item is obtained reworking wires W220A22-G and W221A22-G of the cable assy A1A515.

(9) This item is obtained reworking wires W220B22-G and W221B22-G of the cable assy A1B479.

(10) This item is obtained reworking wires W217A22-S, W218A22-S and W219A22-S of the cable assy A2A445.

(11) This item is obtained reworking wires W217B22-S, W218B22-S and W219B22-S of the cable assy A2B450.

(12) Item to be procured as local supply.

(13) Item to be ordered only for AW139 helicopters from S/N 31802 onwards not equipped with IBF electrical installation P/N 3G7160A07911.

(14) Item P/N 3G7160A07911A1R has to be ordered for AW139 helicopters from 31201 to S/N 31801, while item P/N 3G7160A07911A9R has to be ordered for AW139 helicopters S/N 31802 onwards.

(15) Adhesive MC780 B-2, Code No. 999999999000015245 can be used as a valid alternative

B. SPECIAL TOOLS

The following special tools, or equivalent, are necessary to accomplish this Service Bulletin:

#	P/N	DESCRIPTION	Q.TY	NOTE	PART
158	110-6B	Electrical power supply (28 VDC) (BB-01-00)	1	(B1)	All
159	Commercial	Multimeter	1	(B2)	III
160	TALL6300T1A690B	Waveform generator (BA-01-00)	1	(B3)	III
161	CEA 046-139-A01-1	WOW simulation kit	1	(B2)	III

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

SPECIAL TOOLS NOTES

(B1) P/N GB713-045-700 may be used as a valid alternative.

(B2) Item to be procured as local supply.

(B3) Items P/N HM8150 or P/N 3593.0797.02 may be used as valid alternatives.

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) Protect properly all those equipment not removed from area affected by the modification during installation procedure.

f) Before rivet installation in places where fasteners were just removed, in accordance with the procedures reported on ASRP check hole diameter and if necessary install oversized rivets. If necessary install rivets with different grips.

g) During the installation of bonding braids or components requiring grounding, clean the surface structure in order to obtain a good ground contact.

h) Use aliphatic naphtha to degrease. Cleaned surfaces shall be allowed to air dry for at least 30 minutes before bonding.

i) Let adhesive cure at room temperature for at least 24 hours unless otherwise specified.

j) All lengths are in mm.

PART I

NOTE

Perform the detailed procedure for the installation of relays K334 and K335 (only step 1 to 2, step 13 to 48 and step 50 to 53) if the helicopter is already equipped with IBF electrical installation P/N 3G7160A07911 without the relay K334 and K335 (as per BT139-407 Rev./ 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, open the access door 213AL.
3. In accordance with AMP DM 39-A-71-11-01-00A-520A-A and DM 39-A-71-11-02-00A-520A-A, remove the Number 1 and the Number 2 engine access doors.
4. In accordance with AMP DM 39-A-06-41-00-00A-010A-A, remove access panels 131AL, 132AR, 141DL, 142ER, 142CR, 160AT and 160BT.
5. In accordance with AMP DM 39-A-25-82-03-00A-520A-A, remove the left hinged lining panel.
6. In accordance with AMP DM 39-A-25-82-04-00A-520A-A, remove the right hinged lining panel.
7. With reference to Figures 1 thru 5 and 26, gain access to the area affected by the installation and perform the IBF structural provision P/N 3G5310A83011 on the engine cowling assy as described in the following procedure:
   - 7.1 With reference to Figure 26 section A-A and B-B, install bracket P/N A414A04C238A1 by means of n°3 rivets P/N AGS4719-508.
   - 7.2 With reference to Figure 1 iso view, remove and discard the strut assy P/N 3P7113A19631. Keep existing hardware for later reuse.
   - 7.3 With reference to Figure 1 iso view, install the strut assy P/N 3G7113A00131 by means of previously removed hardware.
   - 7.4 With reference to Figure 1 view E, remove n°3 screws P/N AN525-10R6, n°3 bolts P/N MS21042-3 and n°3 washers P/N NAS1149C0332R.
   - 7.5 With reference to Figure 1 view E, install doubler assy P/N 3G5310A99531 by means of Proseal 700 and n°3 screws P/N MS24694-C48.
   - 7.6 Repeat steps 7.1 thru 7.55 for RH side.

NOTE

Perform the following step 7.7, using the IBF assy as a reference for the correct position of the drilling points.

7.7 With reference to Figure 19 View From B temporarily position the IBF on the external surface of the engine cowling.

CAUTION

Position the IBF assy properly on the engine cowling, paying particular attention to the correct alignment on the edges and on the inlet areas.

CAUTION

Be careful not to overlap the IBF assy on the engine cowling latches.

7.8 With reference to Figure 2 RH side and Figure 19 View From B, perform n° 12 pilot holes Ø2.5 on the highlighted areas.

7.9 With reference to Figure 27 perform n° 8 pilot holes Ø2.5 on the inlet areas, using doublers P/N 3G5310A99951 and P/N 3G5310A99651 as a drilling reference.

7.10 With reference to Figure 1 iso view and Figure 2 RH side, drill n°22 holes Ø5.03÷5.28 on engine cowling skin and doublers.

7.11 With reference to Figure 1 iso view and Figure 2 RH side, install doubler P/N 3G5311A25551, doubler P/N 3G5310A93251, doubler P/N 3G5310A83351, doubler assy P/N 3G5310A91531, doubler scoop internal P/N 3G5310A99651, doubler P/N 3G5311A02451, doubler P/N 3G5311A02351, doubler small scoop rh P/N 3G5310A99951 and doubler P/N 3G5311A09451 by means of adhesive PROSEAL 700 and n°17 rivets P/N NAS1200-3-3-5.

7.12 With reference to Figure 5 Detail H, perform hole Ø16.37÷16.63 and n°4 holes Ø3.12÷3.38 on engine cowling skin as indicated.

7.13 With reference to Figure 1 iso view and Figure 2 RH side view, install n°21 nutplates P/N MS21076L3N and nutplate P/N MS21061L3 by means of n°28 rivets P/N NAS1200-3-3-5.

NOTE

Closure plate P/N 3G5311A05231 shall be installed only when the connectors P601 and P600 of the F2A218 and F2B214 cable assemblies are stowed.

7.14 With reference to Figure 5 detail K, install closure plate P/N 3G5311A05231 by means of n°4 screws P/N MS35206-214 and n°4 washers P/N NAS1149CN432R.

NOTE

Perform the following step 7.15, using the IBF assy as a reference for the correct position of the drilling points.

7.15 With reference to Figure 19 View From B temporarily position the IBF on the external surface of the engine cowling.

CAUTION

Position the IBF assy properly on the engine cowling, paying particular attention to the correct alignment on the edges and on the inlet areas.

CAUTION

Be careful not to overlap the IBF assy on the engine cowling latches.

7.16 With reference to Figure 2 LH side and Figure 19 View From B, perform n° 12 pilot holes Ø2.5 on the highlighted areas.

7.17 With reference to Figure 27 perform n° 8 pilot holes Ø2.5 on the inlet areas, using doublers P/N 3G5310A99851 and P/N 3G5310A99751 as a drilling reference.

7.18 With reference to Figure 1 iso view and Figure 2 LH side, drill n°22 holes Ø5.03÷5.28 on engine cowling skin and doublers.

7.19 With reference to Figure 1 iso view and Figure 2 LH side view, install doubler P/N 3G5311A09451, doubler small scoop P/N 3G5310A99851, doubler P/N 3G5310A83151, doubler P/N 3G5310A83251, doubler scoop internal LH P/N 3G5310A99751, doubler P/N 3G5310A93251, doubler P/N 3G5310A83351, doubler P/N 3G5310A83451 and doubler assy P/N 3G5310A91531 by means of adhesive Proseal 700 and n°17 rivets P/N NAS1200-3-3.

7.20 With reference to Figure 1 iso view and Figure 2 LH side view, drill n°22 holes Ø5.03÷5.28 on engine cowling skin and doublers.

7.21 With reference to Figure 1 iso view and Figure 2 LH side view, install n°21 nutplates P/N MS21076L3N and nutplate P/N MS21061L3 by means of n°28 rivets P/N NAS1200-3-3-5.

7.22 With reference to Figure 5 Detail B, perform hole Ø16.37÷16.63 and n°4 holes Ø3.12÷3.38 on engine cowling skin as indicated.

NOTE

Closure plate P/N 3G5311A05231 shall be installed only when the connectors P601 and P600 of the F2A218 and F2B214 cable assemblies are stowed.

7.23 With reference to Figure 5 section J-J, install closure plate P/N 3G5311A05231 by means of n°4 screws P/N MS35206-214 and n°4 washers P/N NAS1149CN432R.

NOTE

Perform the following step 7.24 only if bolts P/N A364A3 are not already installed on the helicopter.

7.24 With reference to Figure 4 view N and section P-P, install n°2 bolts P/N A364A3 (LH and RH sides) by means of n°4 rivets P/N MS20615-4M.

NOTE

All connections shall be removed, reused or stowed on both sides in accordance with the applicable installation drawing instructions.

NOTE

Each spare wiring that has a terminal or connector installed must be stored securely and yet be visible for inspection and identification. Wires that do not have a terminal lug installed must be dead-ended with a cap or insulation tubing. Wires ending in terminal lugs or other special purpose terminations are stowed to preserve these ends. Use transparent tubing to show these ends intact whenever possible.

8. With reference to Figures 6 thru 13, perform the inlet barrier filter electrical provision P/N 3G7160A07911 in accordance with the following procedures:

8.1 With reference to Figure 8, remove the necessary equipments from the interseat console to get access to the modification area.

8.2 With reference to Figures 6 and Figure 8 view C location n°1, install electrical cable support P/N AW001CL001-N6.

NOTE

While performing steps 8.3 thru 8.8, it is allowed to partially relocate clamps P/N AW001CB04H in an adjacent area to install them properly without any interference.

8.3 With reference to Figure 12 view J locations n°2, 3 and 4 install n°3 clamps P/N AW001CB04H by means of existing hardware.

8.4 With reference to Figure 12 view J location n°5, install bolt P/N A364A3 by means of n°2 rivets P/N MS20615-4M, nut P/N MS21043-3, spacer P/N NAS43DD3-26N, washer P/N NAS1149D0332J and clamp P/N AW001CB04H.

8.5 With reference to Figure 12 view J location n°6, install clamp P/N AW001CB04H by means of washer P/N NAS1149D0332J and screw P/N NAS1802-3-7.

8.6 With reference to Figure 13 view K locations n°7, 8 and 9, install n°3 clamps P/N AW001CB04H by means of existing hardware.

8.7 With reference to Figure 13 view K location n°10, install bolt P/N A364A3 by means of n°2 rivets P/N MS20615-4M, nut P/N MS21043-3, spacer P/N NAS43DD3-26N, washer P/N NAS1149D0332J and clamp P/N AW001CB04H.

8.8 With reference to Figure 13 view K location n°11, install clamp P/N AW001CB04H by means of washer P/N NAS1149D0332J and screw P/N NAS1802-3-7.

8.9 With reference to Figure 7 view A, install relay K334 P/N M83536/2-028M.

8.10 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 7 view A, install decal P/N ED300K334 in an area adjacent to relay K334.

8.11 With reference to Figure 7 view B, install relay K335 P/N M83536/2-028M.

8.12 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 7 view B, install decal P/N ED300K335 in an area adjacent to relay K335.

NOTE

Following step 8.13 is applicable only to helicopters from S/N 31201 to S/N 31398 and from S/N 41201 to S/N 41293.

8.13 With reference to Figure 34 view B locations n°1 and 2, install n°2 electrical cable support P/N AW001CL001-N6.

8.14 With reference to Figures 6 thru 15, lay down the following cable assemblies following the existing route unless otherwise indicated on the figures:

- 3G9C02A33901 inlet barrier filter C/A (C2A339);
- 3G9C02B30301 inlet barrier filter C/A (C2B303);
- 3G9B01A74001 inlet barrier filter C/A (B1A740);
- 3G9A01A51501 inlet barrier filter C/A (A1A515);
- 3G9A02A44501 inlet barrier filter C/A (A2A445);
- 3G9B02B46901 inlet barrier filter C/A (B2B469);
- 3G9B01B76301 inlet barrier filter C/A (B1B763);
- 3G9B01A88901 inlet barrier filter C/A (B1A889);
- 3G9B02A77901 inlet barrier filter C/A (B2A779);
- 3G9A02B45001 inlet barrier filter C/A (A2B450);
- 3G9A01B47901 inlet barrier filter C/A (A1B479);
- 3G9F02A21801 inlet barrier filter C/A (F2A218);
- 3G9F02B21401 inlet barrier filter C/A (F2B214).

NOTE

Where necessary and in accordance with AMP DM 39-A-20-10-08-00A-622A-A crimp on wires the required electrical contacts (refer to Figures 32 and 33) by means of proper crimping tool.

8.15 With reference to Figures 6, 8 and Figure 22 and 24 wiring diagram, remove the electrical connection of cable assy P/N 3G9A01A24001 (A1A240) and P/N 3G9A01B24301 (A1B243) between sectioning connector P121 and terminal board TB143-2 and between connector PL19P2 and PL27P2.

NOTE

Following steps 8.16 thru 8.26 are applicable only to helicopters from S/N 31201 to S/N 31398 and from S/N 41201 to S/N 41293.

8.16 With reference to Figures 32, 34, 35 and Figures 23 and 36 wiring diagrams, rework wires W220A22-G and W221A22-G of the cable assy A1A515 and in accordance with AMP DM 39-A-20-10-18-00A-691A-A remark as cable assy A1A707 by means of marker sleeves P/N A578A05-9.

8.17 With reference to Figures 32, 34, 35 and Figures 36 and 37 wiring diagrams, perform the electrical connection of cable assy P/N 3G9A01A70701 (A1A707) between IBF control panel connector PL155P1 and sectioning connector J103.

8.18 With reference to Figures 6, 7, 8, 32 and Figures 22, 23, 25 wiring diagram, perform electrical connection of cable assy P/N 3G9A01A51501 (A1A515) between sectioning connector P121, terminal board TB143-2, terminal board TB133, terminal board TB129-2, light dimmers panel connector PL19P2, miscellaneous panel connector PL27P2, sectioning connector P131, sectioning connector J103, terminal board TB121P1, IBF control panel connector PL155P1, DC PWR GND connector TB107P1, relay K335 connector K335P1 and MAU 1 connector A1-1P1 and A1-1P4.

8.19 With reference to Figures 32, 34, 35 and Figures 23 and 36 wiring diagrams, rework wires W217A22-S, W218A22-S and W219A22-S of the cable assy A2A445 and in accordance with AMP DM 39-A-20-10-18-00A-691A-A remark as cable assy A2A636 by means of marker sleeves P/N A578A05-9.

NOTE

Only for helicopters equipped with kit lighting sensor system customer must contact AW139 Product Support Engineering (cse.aw139.aw@leonardocompany.com) to request the appropriate wiring diagram at least three months in advance from the scheduled application of this Service Bulletin.

8.20 With reference to Figures 32, 34, 35 and Figure 36 wiring diagram, perform the electrical connection of cable assy P/N 3G9A02A63601 (A2A636) between IBF control panel connector PL155P1 and sectioning connector J105.

8.21 With reference to Figures 6, 7, 8, 32 and Figure 23 wiring diagram, perform electrical connection of cable assy P/N 3G9A02A44501 (A2A445) between IBF control panel connector PL155P1 and sectioning connector P133.

8.22 With reference to Figures 33, 34, 35 and Figures 23 and 36 wiring diagrams, rework wires W217B22-S, W218B22-S and W219B22-S of the cable assy A2B450 and in accordance with AMP DM 39-A-20-10-18-00A-691A-A remark as cable assy A2B614 by means of marker sleeves P/N A578A05-9.

8.23 With reference to Figures 33, 34, 35 and Figure 36 wiring diagram, perform the electrical connection of cable assy P/N 3G9A02B61401 (A2B614) between sectioning connector P105, sectioning connector P118 and sectioning connector P138.

8.24 With reference to Figures 33, 34, 35 and Figures 23 and 36 wiring diagrams, rework wires W220B22-G and W221B22-G of the cable assy A1B479 and in accordance with AMP DM 39-A-20-10-18-00A-691A-A remark as cable assy A1B648 by means of marker sleeves P/N A578A05-9.

8.25 With reference to Figures 33, 34, 35 and Figures 36 and 37 wiring diagrams, perform the electrical connection of cable assy P/N 3G9A01B64801 (A1B648) between sectioning connector P103, sectioning connector P114, sectioning connector P116.

8.26 With reference to Figures 6, 7, 9, 33 and Figures 25 wiring diagrams perform the electrical connection of cable assy P/N 3G9A01B47901 (A1B479) between sectioning connector P103, sectioning connector P109, DC PWR GND connector TB108P1, relay K334 connector K334P1 and MAU 2 connectors A2-1P1 and A2-1P4.

NOTE

Following steps 8.27 thru 8.30 are applicable only to helicopters from S/N 31400 onwards and from S/N 41300 onwards.

8.27 With reference to Figures 6, 7, 8, 32 and Figures 22, 23, 25 wiring diagrams, perform electrical connection of cable assy P/N 3G9A01A51501 (A1A515) between sectioning connector P121, terminal board TB143-2, terminal board TB133, terminal board TB129-2, light dimmers panel connector PL19P2, miscellaneous panel connector PL27P2, sectioning connector P131, sectioning connector J103, terminal board TB121P1, IBF control panel connector PL155P1, DC PWR GND connector TB107P1, relay K335 connector K335P1 and MAU 1 connector A1-1P1 and A1-1P4.

8.28 With reference to Figures 6, 7, 8, 32 and 23 wiring diagram, perform electrical connection of cable assy P/N 3G9A02A44501 (A2A445) between IBF control panel connector PL155P1, sectioning connector P133 and sectioning connector J107.

8.29 With reference to Figures 6, 7, 9, 33 and Figure 23 wiring diagram, perform the electrical connection of cable assy P/N 3G9A02B45001 (A2B450) between sectioning connector P107, sectioning connector P118 and sectioning connector P138.

8.30 With reference to Figures 6, 7, 9, 33 and Figures 23 and 25 wiring diagrams perform the electrical connection of cable assy P/N 3G9A01B47901 (A1B479) between sectioning connector P103, sectioning connector P114, sectioning connector P116, sectioning connector P109, DC PWR GND connector TB108P1, relay K334 connector K334P1 and MAU 2 connectors A2-1P1 and A2-1P4.

8.31 With reference to Figures 6, 8 and Figure 22 wiring diagram, perform electrical connection of cable assy P/N 3G9B01A74001 (B1A740) between sectioning connector J121 and circuit breaker panel connector PL1P9.

8.32 With reference to Figures 2, 8, 10, 33 and Figure 23 wiring diagram, perform electrical connection of cable assy P/N 3G9B02A77901 (B2A779) between sectioning connector J133 and sectioning connector J217.

8.33 With reference to Figures 6, 8, 10, 33 and Figure 23 wiring diagram, perform electrical connection of cable assy P/N 3G9B01A88901 (B1A889) between sectioning connector J131 and sectioning connector J215.

8.34 With reference to Figures 6, 11 and Figure 23 wiring diagram, perform electrical connection of cable assy P/N 3G9C02A33901 (C2A339) between sectioning connector P217, sectioning connector P215 and sectioning connector J335.

8.35 With reference to Figures 6, 11, 12, 33 and Figure 23 wiring diagram, perform the electrical connection of cable assy P/N 3G9F02A21801 (F2A218) between sectioning connector P335 and sectioning connector P601.

8.36 With reference to Figures 6, 9, 10, 32 and Figure 23 wiring diagram, perform the electrical connection of cable assy P/N 3G9B02B46901 (B2B469) between sectioning connector J118, sectioning connector J138 and sectioning connector J214.

8.37 With reference to Figure 9 detail F, perform the connection between connectors J138 and P138 by means of retainer P/N M85049/95-25A-A by means of n°4 washers P/N NAS1149DN616J and n°4 screws P/N NAS1802-06-8.

8.38 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 9 detail F install decal P/N ED300J138.

8.39 With reference to Figures 6, 9, 10, 33 and Figure 23 wiring diagram, perform the electrical connection of cable assy P/N 3G9B01B76301 (B1B763) between sectioning connector J114, sectioning connector J116 and sectioning connector J210.

8.40 With reference to Figures 6, 11 and Figure 23 wiring diagram, perform the electrical connection of cable assy P/N 3G9C02B30301 (C2B303) between sectioning connector P214, sectioning connector P210 and sectioning connector J334.

8.41 With reference to Figures 6, 11, 13, 33 and Figure 23 wiring diagram, perform the electrical connection of cable assy P/N 3G9F02B21401 (F2B214) between sectioning connector P334 and sectioning connector P600.

9. In accordance with AMP DM 39-A-71-11-01-00A-720A-A and DM 39-A-71-11-02-00A-720A-A, install the Number 1 and the Number 2 engine access doors.
10. In accordance with AMP DM 39-A-06-41-00-00A-010A-A, install access panels 131AL, 132AR, 141DL, 142ER, 142CR, 160AT and 160BT.
11. In accordance with AMP DM 39-A-25-82-03-00A-720A-A, install the left hinged lining panel.
12. In accordance with AMP DM 39-A-25-82-04-00A-720A-A, install the right hinged lining panel.

NOTE

The following steps from 13 to 48 are applicable only if the helicopter is already equipped with IBF electrical installation P/N 3G7160A07911 without the relay K334 and K335.

13. With reference to Figure 14 View A, Figure 15 View E and Figure 25 wiring diagram, assembly wire W207C22-G as described in the following procedure:

13.1 With reference to Figure 14 View A and Figure 15 View E, route one piece of electrical wire A556A-T22 of adequate length between Relay connector K334P1 and MAU2 connector A2-1P1.

13.2 With reference to Figure 25 Wiring diagram, crimp one electrical contact P/N M39029/57-354 (MAU2 side) and electrical contact P/N A523A-B02 (K334P1 side) by means of proper crimping tool.

13.3 With reference to Figure 25 Wiring diagram, mark wire as W207C22-G by means of n°2 plastic sleeves P/N A578A05-9.

14. With reference to Figure 25 Wiring diagram, perform the electrical connection of wire W207C22-G previously assembled to MAU2 connector A2-1P1.
15. With reference to Figure 14 View A, Figure 15 View E and Figure 25 Wiring diagram, assembly wire W260A22N-G as described in the following procedure:

15.1 With reference to Figure 14 View A and Figure 15 View E, route one piece of electrical wire A556A-T22 of adequate length between Relay connector K334P1 and terminal board connector TB108P1.

15.2 With reference to Figure 25 Wiring diagram, crimp one electrical contact P/N M39029/56-351 (TB side) and electrical contact P/N A523A-B02 (K334P1 side) by means of proper crimping tool.

15.3 With reference to Figure 25 Wiring diagram, mark wire as W260A22N-G by means of n°2 plastic sleeves P/N A578A05-9.

16. With reference to Figure 25 Wiring diagram, perform the electrical connection of wire W260A22N-G previously assembled to terminal board connector TB108P1.

17. With reference to Figure 14 View A, Figure 15 View E and Figure 25 Wiring diagram, identify and rework wire W207B22-G as described in the following procedure:

17.1 With reference to Figure 14 View A and Figure 15 View E, cut wire W207B22-G to an adequate length to Relay connector K334P1.

17.2 With reference to Figure 25 Wiring diagram, crimp one electrical contact P/N A523A-B02 (K334P1 side) by means of proper crimping tool.

17.3 With reference to Figure 25 Wiring diagram, mark wire as W207B22-G by means of one plastic sleeve P/N A578A05-9.

18. With reference to Figure 15 View C and Figure 25 Wiring diagram, identify and rework wire W208B22-G as described in the following procedure:

18.1 With reference to Figure 15 View C, cut wire W208B22-G to an adequate length.

18.2 With reference to Figure 25 Wiring diagram, install one splice P/N M81824/1-2. Identify as splice SP10116.

18.3 With reference to Figure 25 Wiring diagram, mark wire as W208B22-G by means of one plastic sleeve P/N A578A05-9.

19. With reference to Figure 15 View C and View E and Figure 25 Wiring diagram, assembly wire W208C22-G as described in the following procedure:

19.1 With reference to Figure 15 View C and View E, route one piece of electrical wire A556A-T22 of adequate length between Relay connector K334P1 and splice SP10116.

19.2 With reference to Figure 25 Wiring diagram, crimp one electrical contact P/N A523A-B02 (K334P1 side) by means of proper crimping tool.

19.3 With reference to Figure 25 Wiring diagram, mark wire as W208C22-G by means of n°2 plastic sleeves P/N A578A05-9.

20. With reference to Figure 25 Wiring diagram, perform the electrical connection of wire W208C22-G previously modified to splice SP10116.

21. With reference to Figure 14 View A, Figure 15 View C and Figure 25 Wiring diagram, assembly wire W208D22-G as described in the following procedure:
    21.1 With reference to Figure 14 View A, Figure 15 View C, route one piece of electrical wire A556A-T22 of adequate length between MAU2 connector A2-1P4 and splice SP10116.
    21.2 With reference to Figure 25 Wiring diagram, crimp one electrical contact P/N A523A-B02 (K334P1 side) by means of proper crimping tool.
    21.3 With reference to Figure 25 Wiring diagram, mark wire as W208D22-G by means of n°2 plastic sleeves P/N A578A05-9.
22. With reference to Figure 25 Wiring diagram, perform the electrical connection of wire W208D22-G previously modified to MAU2 connector A2-1P4 and to splice SP10116.
23. With reference to Figure 25 Wiring diagram, perform the electrical connection of wire W207C22-G previously assembled to Relay connector K334P1.
24. With reference to Figure 25 Wiring diagram, perform the electrical connection of wire W260A22N-G previously assembled to Relay connector K334P1.
25. With reference to Figure 25 Wiring diagram, perform the electrical connection of wire W207B22-G previously modified to Relay connector K334P1.
26. With reference to Figure 25 Wiring diagram, perform the electrical connection of wire W208C22-G previously modified to Relay connector K334P1.
27. With reference to Figure 15 View E, put relay socket P/N M12883/52-001 in its position.
28. With reference to Figure 15 View E, install relay socket P/N M12883/52-001 in its mounting track.
29. With reference to Figure 15 View E, install relay P/N M83536/2-028M on the relay socket P/N M12883/52-001.
30. With reference to Figure 15 View E and in accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300K334.
31. With reference to Figure 14 View B, Figure 15 View D and Figure 25 Wiring diagram, assembly wire W210B22-G as described in the following procedure:
    31.1 With reference to Figure 14 View B and Figure 15 View D, route one piece of electrical wire A556A-T22 of adequate length between Relay connector K335P1 and MAU1 connector A1-1P1.
    31.2 With reference to Figure 25 Wiring diagram, crimp one electrical contact P/N M39029/57-354 (MAU1 side) and electrical contact P/N A523A-B02 (K335P1 side) by means of proper crimping tool.
    31.3 With reference to Figure 25 Wiring diagram, mark wire as W210B22-G by means of n°2 plastic sleeves P/N A578A05-9.

32. With reference to Figure 25 Wiring diagram, perform the electrical connection of wire W210B22-G previously assembled to MAU1 connector A1-1P1.
33. With reference to Figure 14 View B, Figure 15 View D and Figure 25 Wiring diagram, assembly wire W261A22N-G as described in the following procedure:
    33.1 With reference to Figure 14 View B and Figure 15 View D, route one piece of electrical wire A556A-T22 of adequate length between Relay connector K335P1 and terminal board connector TB107P1.
    33.2 With reference to Figure 25 Wiring diagram, crimp one electrical contact P/N M39029/56-351 (TB side) and electrical contact P/N A523A-B02 (K334P1 side) by means of proper crimping tool.
    33.3 With reference to Figure 25 Wiring diagram, mark wire as W260A22N-G by means of n°2 plastic sleeves P/N A578A05-9.
34. With reference to Figure 25 Wiring diagram, perform the electrical connection of wire W261A22N-G previously assembled to terminal board connector TB107P1.
35. With reference to Figure 15 View C and View D and Figure 25 Wiring diagram, identify and rework wire W210A22-G as described in the following procedure:
    35.1 With reference to Figure 15 View C and View D, cut wire W210A22-G to an adequate length to Relay connector K335P1.
    35.2 With reference to Figure 25 Wiring diagram, crimp one electrical contact P/N A523A-B02 (K334P1 side) by means of proper crimping tool.
    35.3 With reference to Figure 25 Wiring diagram, mark wire as W207B22-G by means of one plastic sleeve P/N A578A05-9.
36. With reference to Figure 15 View C and Figure 25 Wiring diagram, identify and rework wire W209A22-G as described in the following procedure:
    36.1 With reference to Figure 15 View C, cut wire W209A22-G to an adequate length.
    36.2 With reference to Figure 25 Wiring diagram, install one splice P/N M81824/1-2. Identify as splice SP10115.
    36.3 With reference to Figure 25 Wiring diagram, mark wire as W209A22-G by means of one plastic sleeve P/N A578A05-9.
37. With reference to Figure 15 View C and View D and Figure 25 Wiring diagram, assembly wire W209C22-G as described in the following procedure:
    37.1 With reference to Figure 15 View C and View D, route one piece of electrical wire A556A-T22 of adequate length between Relay connector K335P1 and splice SP10115.
    37.2 With reference to Figure 25 Wiring diagram, crimp one electrical contact P/N A523A-B02 (K335P1 side) by means of proper crimping tool.

37.3 With reference to Figure 25 Wiring diagram, mark wire as W209C22-G by means of n°2 plastic sleeves P/N A578A05-9.

38. With reference to Figure 25 Wiring diagram, perform the electrical connection of wire W209C22-G previously modified to splice SP10115.
39. With reference to Figure 14 View B, Figure 15 View C and Figure 25 Wiring diagram, assembly wire W209B22-G as described in the following procedure:
    39.1 With reference to Figure 14 View B and Figure 15 View C, route one piece of electrical wire A556A-T22 of adequate length between MAU1 connector A1-1P4 and splice SP10115.
    39.2 With reference to Figure 25 Wiring diagram, crimp one electrical contact P/N A523A-B02 (K335P1 side) by means of proper crimping tool.
    39.3 With reference to Figure 25 Wiring diagram, mark wire as W209B22-G by means of n°2 plastic sleeves P/N A578A05-9.
40. With reference to Figure 25 Wiring diagram, perform the electrical connection of wire W209B22-G previously modified to MAU1 connector A1-1P4 and to splice SP10115.
41. With reference to Figure 25 Wiring diagram, perform the electrical connection of wire W210B22-G previously assembled to Relay connector K335P1.
42. With reference to Figure 25 Wiring diagram, perform the electrical connection of wire W261A22N-G previously assembled to Relay connector K335P1.
43. With reference to Figure 25 Wiring diagram, perform the electrical connection of wire W210A22-G previously modified to Relay connector K334P1.
44. With reference to Figure 25 Wiring diagram, perform the electrical connection of wire W209C22-G previously modified to Relay connector K335P1.
45. With reference to Figure 15 View D, put relay socket P/N M12883/52-001 in its position.
46. With reference to Figure 15 View D, install relay socket P/N M12883/52-001 in its mounting track.
47. With reference to Figure 15 View D, install relay P/N M83536/2-028M on the relay socket P/N M12883/52-001.
48. With reference to Figure 15 View D and in accordance with AMP DM 39-A-11-00-01-00A-720A-A, install decal P/N ED300K335.
49. In accordance with AMP DM 39-A-06-41-00-00A-010A-A, close access door 213AL.
50. With reference to Figure 22 wiring diagram, modify the overhead panel, as described in the following procedure:
    50.1 Remove lock ring on the circuit breaker P/N MS3320-5 (CB111) in the position indicated as EAPS 1.
    50.2 Remove lock ring on the circuit breaker P/N MS3320-5 (CB112) in the position indicated as EAPS 2.

51. Perform a pin-to-pin continuity check of all the electrical connections previously performed.

NOTE

Customer must consider N.A. for weight and balance changes if the helicopter is already equipped with IBF electrical installation P/N 3G7160A07911 without the relay K334 and K335 (ref. to BT139-407 Rev. / Part I).

52. In accordance with weight and balance changes, update the Chart A (see Rotorcraft Flight Manual, Part II, section 6).
53. Return the helicopter to flight configuration and record for compliance with Part I of this Service Bulletin on the helicopter log book.
54. Send the attached compliance form to the following mail box:

    cse.aw139.aw@leonardocompany.com

    As an alternative, gain access to My Communications section on Leonardo Web Portal and compile the “Technical 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.
2. With reference to Figures 16 and 17, perform the inlet barrier filter scoop retro-mod P/N 3G7160P00111 as described in the following procedure:
   - 2.1 With reference to Figure 16, remove the aft fairing assembly P/N 122500-101, the upper filter assembly P/N 122300-101 and the lower filter assembly P/N 122350-101 to allow access to the scoop area. Retain existing attaching hardware.
   - 2.2 With reference to Figure 16 detail A, remove the nut P/N MS21043-3, bolt P/N NAS6302-2, n°2 washers P/N NAS1149D0316J and n°2 clamps P/N MS21919WDG7.
   - 2.3 With reference to Figure 16 view B, disconnect the wire harness P/N 122125-101 from the differential pressure switch P/N 1004098-101.
   - 2.4 With reference to Figure 16 view B, remove the hose clamp P/N 3604. Disconnect the delta-p sensor hose P/N 122127-201 from the differential pressure switch P/N 1004098-101.
   - 2.5 With reference to Figure 16 view B, remove the bolt P/N NAS6203-11, washer P/N NAS1149D0332J, clamp P/N MS21919WDG28 and differential pressure switch P/N 1004096-101.
   - 2.6 With reference to Figure 16 view B, remove the hose clamp P/N 3604. Disconnect the FMA sensor hose P/N 122131-201 from the filter maintenance aid P/N 104441-201.
   - 2.7 With reference to Figure 16 view B, remove n°2 bolts P/N NAS6203-4, n°2 washers P/N NAS1149D0363J, retainer P/N 122132-201, retainer P/N 122133-201, n°2 cushions P/N 122134-201 and filter maintenance aid P/N 104441-201.
   - 2.8 With reference to Figure 17, view C and view E, temporarily locate scoop P/N 3G7160P00251 in its position on the inlet barrier filter LH. Countermark position of n°4 anchor nut holes in the inlet barrier filter LH.
   - 2.9 With reference to Figure 17 view C and section D-D, drill n°4 Ø 5.03÷5.28 holes through the inlet barrier filter.
   - 2.10 With reference to Figure 17 view C and section D-D, install n°3 nut plates P/N MS21075L08 on the inlet barrier filter by means of n°6 rivets P/N NAS1200M3-3-5.

2.11 With reference to Figure 17 view C and section D-D, install nut plate P/N MS21075L08 on the inlet barrier filter by means of n°2 rivets P/N NAS1200M3-4-5.

NOTE

Before the installation of scoop P/N 3G7160P00251, re-locate the existing placard Static Port in a visible area.
If necessary use stencil P/N A954AS040EN.

2.12 With reference to Figure 17 view F, detail G and section H-H, apply a layer of adhesive RTV732 to the mating surfaces between the scoop P/N 3G7160P00251 and the inlet barrier filter.

2.13 With reference to Figure 17 view E, install the scoop P/N 3G7160P00251 by means of n°4 screws P/N AN525-832R7.

2.14 With reference to Figure 16 view B, install the filter maintenance aid P/N 104441-201 by means of n°2 cushions P/N 122134-201, retainer P/N 122133-201, retainer P/N 122132-201, n°2 washers P/N NAS1149D0363J and n°2 bolts P/N NAS6203-4.

2.15 With reference to Figure 16 view B, connect the FMA sensor hose P/N 122131-201 to the filter maintenance aid P/N 104441-201. Install the hose clamp P/N 3604.

2.16 With reference to Figure 16 view B, install the differential pressure switch P/N 1004098-101 by means of clamp P/N MS21919WDG28, washer P/N NAS1149D0332J and bolt P/N NAS6203-11.

2.17 With reference to Figure 16 view B, connect the delta-p sensor hose P/N 122127-201 to the differential pressure switch P/N 1004098-101. Install the hose clamp P/N 3604.

2.18 With reference to Figure 16 view B, connect the wire harness P/N 122125-101 to the differential pressure switch P/N 1004098-101.

2.19 With reference to Figure 16 detail A, re-install n°2 clamps P/N MS21919WDG7, as per step 2.2.

2.20 With reference to Figure 16 principal view, install the aft fairing assembly P/N 122500-101, the upper filter assembly P/N 122300-101 and the lower filter assembly P/N 122350-101 by means of the retained hardware at step 2.1.

3. In accordance with weight and balance changes, update the Chart A (see Rotorcraft Flight Manual, Part II, section 6).
4. Return the helicopter to flight configuration and record for compliance with Part II of this Service Bulletin on the helicopter logbook.

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

   cse.aw139.aw@leonardocompany.com

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

PART III

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. With reference to Figure 18 and to Figure 22 thru Figure 25 Wiring diagram, perform the inlet barrier filter fixed parts installation P/N 3G7160A07711 as described in the following procedure:
   - 2.1 With reference to Figure 18 and to Figure 22 thru Figure 25 Wiring diagrams, connect the PL155P1 connector to the Inlet Barrier Filter (IBF) control panel PL155. Install the IBF control panel P/N 3G7160V04151 in its position on the cabin interseat console by means of its quick-release fasteners.
   - 2.2 With reference to Figure 24 Wiring diagram, make sure that the connections of the PL19P2 and PL27P2 connectors are performed correctly.
3. With reference to Figures 19 thru 21, perform the inlet barrier filter removable parts installation P/N 3G7160A08011 as described in the following procedure:
   - 3.1 With reference to Figure 19, remove the external intake LH and RH P/N 3P7117A33751 and P/N 3P7117A33851. Retain existing attaching hardware.

NOTE

If helicopter is equipped with grill assy LH and RH fixed by rivets (Refer to Figure 21 View F) perform the following step 3.2 otherwise go to step 3.3

   - 3.2 With reference to Figure 21 View F, remove the grill assemblies RH and LH and install the covers P/N 3G7160A01751 as described in the following procedure:
     - 3.2.1 Drill out the existing rivets that fix the grill assy to the cowling assy.
     - 3.2.2 Remove the angulars and the grill assy.
     - 3.2.3 Clean the areas with a soft lint-free cloth soaked with solvent (C005) or aliphatic naphtha (C059).
     - 3.2.4 Re-install angulars by means of rivets P/N NAS1200M4-3 and P/N NAS1721C4L2P as required.
     - 3.2.5 Temporarily locate cover P/N 3G7160A01751 on the cowling assy and countermark the position of n°5 screw holes on the cowling assy.
     - 3.2.6 Drill n°5 holes Ø 5.74 ÷ 5.87 on the previously countermarked position on the cowling assy.
     - 3.2.7 Install n°5 anchor nuts P/N MS21076-3 by means of n°10 rivets P/N MS20427M3.

3.2.8 Install the cover P/N 3G7160A01751 by means of n°5 screws P/N NAS1802-3-8 and n°5 washers P/N NAS1149C0332R.

3.2.9 Perform steps 3.2.1 thru 3.2.8 also for the other side.

3.2.10 Go to step 3.5.

3.3 With reference to Figure 21 View F, remove the grill assy LH and RH P/N 3P7117A34131 and P/N 3P7117A34231. Retain existing attaching hardware.

3.4 With reference to Figure 21 View F, install the cover P/N 3G7160A01751 by means of the retained hardware at step 3.3. Perform this step also for RH side.

NOTE

If necessary replace existing hardware with screws P/N AN525-10R9.

3.5 With reference to Figure 19, install the upper cover assy LH and RH P/N 3G7160A04331 and P/N 3G7160A04431 by means of the retained hardware at step 3.1.

3.6 With reference to Figure 19 View A, remove the n°28 screws P/N AN525-10R6 and the air intake assy P/N 3P7113A01934.

3.7 With reference to Figure 19 view from A, remove the n°28 screws P/N AN525-10R6 and the LH air intake assy P/N 3P7113A01934.

3.8 With reference to Figure 19 view B, remove the LH frame III assy P/N 3P7113A01334. Retain existing attaching hardware.

NOTE

Perform the following step 3.9 only if P/N 3G7160A08131A has been provided without welding points.

3.9 With reference to Figure 28 and 29, install covers P/N 3G7160A06851 and P/N 3G7160A06651 by means of n° 20 rivets P/N MS20427M3.

3.10 With reference to Figure 28 Section A-A and Section E-E, install n°6 anchor nuts P/N MS21060-3K and n°7 anchor nut P/N MS21050-3K by means of n°26 rivets P/N MS20427M3-4 as indicated on the frame 3 assy LH.

3.11 With reference to Figure 28 View B, install anchor nut P/N MS21062-3K and P/N MS21074-3K by means of n°4 rivets P/N MS20427M3-4 as indicated on the frame 3 assy LH.

3.12 With reference to Figure 29 Section C-C, install anchor nut P/N MS21062-3K and P/N MS21074-3K by means of n°4 rivets P/N MS20427M3-4 as indicated on the frame 3 assy LH.

3.13 With reference to Figure 19 view B, install the frame 3 assy LH P/N 3G7160A08131 by means of the retained hardware at step 3.8.

3.14 With reference to Figure 20 view D, bond strip silicon RBR sponge P/N A115A1616AB816 with RBR adhesive RTB106 on the IBF LH side P/N 3G7160V03931.

3.15 With reference to Figure 20 view D, bond strip silicon RBR sponge P/N A115A1616AB374 with RBR adhesive RTB106 on the IBF LH side P/N 3G7160V03931.

3.16 With reference to Figure 20 view D, bond strip silicon RBR sponge P/N A115A1616AB855 with RBR adhesive RTB106 on the IBF LH side P/N 3G7160V03931.

3.17 With reference to Figure 20 view D, cut extrusion silicon RBR P/N A966A080EB of a measure of 0.605 m and bond it with RBR adhesive RTB106 on the IBF LH side P/N 3G7160V03931.

3.18 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 20 detail H, install the stencil P/N A954AS040EN on the IBF LH side P/N 3G7160V03931.

NOTE

Filter elements P/N 122300-101 and P/N 122350-101 are part of the IBF assy LH P/N 3G7160V03931 (ref. step 3.19).

3.19 With reference to Figure 19 view A, remove n°18 screws P/N WES7900-10-A-10, filter element P/N 122300-101, n°18 screws P/N WES7900-10-A-10 and filter element P/N 122350-101.

3.20 With reference to Figure 19 view B, drill n°19 Ø 6.0 holes in the IBF assy LH P/N 3G7160V03931 according to the LH engine cowling assy P/N 3P7113A00135.

3.21 With reference to Figure 19 view B, install the IBF assy LH P/N 3G7160V03931 by means of n°19 bolts P/N NAS6203-4 and n°19 washers P/N NAS1149D0316J.

3.22 With reference to Figure 21 detail K, enlarge pilot hole up to Ø 5.33 on engine cowling skin and install LH bracket assembly P/N 3G7160A08531 on engine cowling by means of screw P/N AN525-10R7.

3.23 With reference to Figure 19 view A and Figure 21 detail L, install n°21 screws P/N AN525-10R8 and n°21 washers P/N NAS1149D0316J.

3.24 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 19 detail G, install stencil P/N A954AE040EJ and stencil P/N A954AF090EN.

3.25 With reference to Figure 21 view J, install n°3 bolts P/N NAS6603-2 and n°3 washers P/N NAS1149C0332R.

NOTE

Perform the following step 3.26 only if steps 7.14 and 7.23 of Part I have been performed.

3.26 With reference to Figure 20 detail C, remove n°4 screws P/N MS35206-214, n°4 washers P/N NAS1149CN432R and closure plate P/N 3G5311A05231.

NOTE

IBF connector is part of the IBF assy LH P/N 3G7160V03931 (ref. step 3.27).

3.27 With reference to Figure 20 detail C, install IBF connector by means of n°4 screws P/N MS35206-215, n°8 washers and n°8 nuts P/N MS21042L04.

3.28 With reference to Figure 20 view E location n°1, install n°2 clamps P/N AS21919WDG7 by means of screws P/N NAS6203-7, washer P/N NAS1149D0316J and spacer P/N NAS43HT3-17.

NOTE

To allow a proper installation of the clamps P/N MS21919WDG7, it is allowed the reversal installation of the screw, while performing the following step 3.29.

3.29 With reference to Figure 20 view E location n°2, install n°2 clamps P/N MS21919WDG7 by means of screw P/N NAS6203-2, nut P/N MS21043-3 and n°2 washers P/N NAS1149D0316J.

3.30 With reference to Figure 19 view A, install filter element P/N 122300-101 by means of n°18 screws P/N WES7900-10-A-10. Tighten the eighteen screws 3.39÷4.52 Nm (30 to 40 lbf in).

3.31 With reference to Figure 19 view A, install filter element P/N 122350-101 by means of n°18 screws P/N WES7900-10-A-10. Tighten the eighteen screws 3.39÷4.52 Nm (30 to 40 lbf in).

3.32 Oil filter element P/N 122300-101 with 14 oz of oil P/N 100100-080 and filter element P/N122350-101 with 13 oz of oil P/N 100100-080 as described in the following procedure:

NOTE

If possible, preserve a small quantity of oil.

3.32.1 Apply about half quantity of oil P/N 100100-080 along the entire length of each pleat peak and ensure a good coverage.

3.32.2 Flip the filter element and perform the step 3.32.1 again.

3.32.3 Make sure that you do not over oil the filter element.

3.32.4 Wait thirty minutes and make sure that the oil is absorbed.

3.32.5 If there is some area that still remain white or do not have a uniform colour, oil these areas with the preserved small quantity of oil.

3.33 With reference to Figure 19 view A, remove the n°28 screws P/N AN525-10R6 and the RH air intake assy P/N 3P7114A01934.

3.34 With reference to Figure 19 view B, remove the RH frame III assy P/N 3P7114A01334. Retain existing attaching hardware.

NOTE

Perform the following step 3.35 only if P/N 3G7160A08331A has been provided without welding points.

3.35 With reference to Figure 30 and 31, install covers P/N 3G7160A06951 and P/N 3G7160A06752 by means of n° 20 rivets P/N MS20427M3.

3.36 With reference to Figure 30 Section A-A and Section E1-E1, install n°6 anchor nuts P/N MS21060-3K and n°7 anchor nut P/N MS21050-3K by means of n°26 rivets P/N MS20427M3-4 as indicated on the frame 3 assy RH.

3.37 With reference to Figure 30 View B, install anchor nut P/N MS21062-3K and P/N MS21074-3K by means of n°4 rivets P/N MS20427M3-4 as indicated on the frame 3 assy RH.

3.38 With reference to Figure 31 Section C-C, install anchor nut P/N MS21062-3K and P/N MS21074-3K by means of n°4 rivets P/N MS20427M3-4 as indicated on the frame 3 assy RH.

3.39 With reference to Figure 19 view B, install the frame 3 assy RH P/N 3G7160A08331 by means of the retained hardware at step 3.34.

3.40 With reference to Figure 20 view D, bond strip silicon RBR sponge P/N A115A1616AB816 with RBR adhesive RTB106 on the IBF RH side P/N 3G7160V04031.

3.41 With reference to Figure 20 view D, bond strip silicon RBR sponge P/N A115A1616AB374 with RBR adhesive RTB106 on the IBF RH side P/N 3G7160V04031.

3.42 With reference to Figure 20 view D, bond strip silicon RBR sponge P/N A115A1616AB855 with RBR adhesive RTB106 on the IBF RH side P/N 3G7160V04031.

3.43 With reference to Figure 20 view D, cut extrusion silicon RBR P/N A966A080EB of a measure of 0.605 m and bond it with RBR adhesive RTB106 on the IBF RH side P/N 3G7160V04031.

3.44 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 20 detail H, install the stencil P/N A954AS040EN.

NOTE

Filter elements P/N 122300-101 and P/N 122350-101 are part of the IBF assy RH P/N 3G7160V04031 (ref. step 3.45).

3.45 With reference to Figure 19 view A, remove n°18 screws P/N WES7900-10-A-10, filter element P/N 122300-101, n°18 screws P/N WES7900-10-A-10 and filter element P/N 122350-101.

3.46 With reference to Figure 19 view B, drill n°19 Ø 6.0 holes in the IBF assy RH P/N 3G7160V04031 according to the RH engine cowling assy P/N 3P7114A00135.

3.47 With reference to Figure 19 view B, install the IBF assy RH P/N 3G7160V04031 by means of n°19 bolts P/N NAS6203-4 and n°19 washers P/N NAS1149D0316J.

3.48 With reference to Figure 21 detail K, drill hole Ø2.5 on engine cowling skin and install RH bracket assembly P/N 3G7160A08631 on engine cowling by means of screw P/N AN525-10R7.

3.49 With reference to Figure 19 view A and Figure 21 detail L, install n°21 screws P/N AN525-10R8 and n°21 washers P/N NAS1149D0316J.

3.50 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 19 detail G, install stencil P/N A954AE040EJ and stencil P/N A954AF090EN.

3.51 With reference to Figure 21 view J, install n°3 bolts P/N NAS6603-2 and n°3 washers P/N NAS1149C0332R.

NOTE

Perform the following step 3.52 only if steps 7.14 and 7.23 of Part I have been performed.

3.52 With reference to Figure 20 detail C, remove n°4 screws P/N MS35206-214, n°4 washers P/N NAS1149CN432R and closure plate P/N 3G5311A05231.

NOTE

IBF connector is part of the IBF assy RH P/N 3G7160V04031 (ref. step 3.53).

3.53 With reference to Figure 20 detail C, install IBF connector by means of n°4 screws P/N MS35206-215, n°8 washers and n°8 nuts P/N MS21042L04.

3.54 With reference to Figure 20 view E location n°1, install n°2 clamps P/N AS21919WDG7 by means of screws P/N NAS6203-7, washer P/N NAS1149D0316J and spacer P/N NAS43HT3-17.

NOTE

To allow a proper installation of the clamps P/N MS21919WDG7, it is allowed the reversal installation of the screw, while performing the following step 3.55.

3.55 With reference to Figure 20 view E location n°2, install n°2 clamps P/N MS21919WDG7 by means of screw P/N NAS6203-2, nut P/N MS21043-3 and n°2 washers P/N NAS1149D0316J.

3.56 With reference to Figure 19 view A, install filter element P/N 122300-101 by means of n°18 screws P/N WES7900-10-A-10. Tighten the eighteen screws 3.39÷4.52 Nm (30 to 40 lbf in).

3.57 With reference to Figure 19 view A, install filter element P/N 122350-101 by means of n°18 screws P/N WES7900-10-A-10. Tighten the eighteen screws 3.39÷4.52 Nm (30 to 40 lbf in).

3.58 Oil filter element P/N 122300-101 with 14 oz of oil P/N 100100-080 and filter element P/N122350-101 with 13 oz of oil P/N 100100-080 as described in the following procedure:

NOTE

If possible, preserve a small quantity of oil.

3.58.1 Apply about half quantity of oil P/N 100100-080 along the entire length of each pleat peak and ensure a good coverage.

3.58.2 Flip the filter element and perform the step 3.58.1 again.

3.58.3 Make sure that you do not over oil the filter element.

3.58.4 Wait thirty minutes and make sure that the oil is absorbed.

3.59 If there is some area that still remain white or do not have a uniform colour, oil these areas with the preserved small quantity of oil.

4. In accordance with AMP DM 39-A-71-61-00-00A-320A-K, perform the IBF system operational test.

5. In accordance with weight and balance changes, update the Chart A (see Rotorcraft Flight Manual, Part II, section 6).
6. Return the helicopter to flight configuration and record for compliance with Part III of this Service Bulletin on the helicopter log book.
7. Send the attached compliance form to the following mail box:

   cse.aw139.aw@leonardocompany.com

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

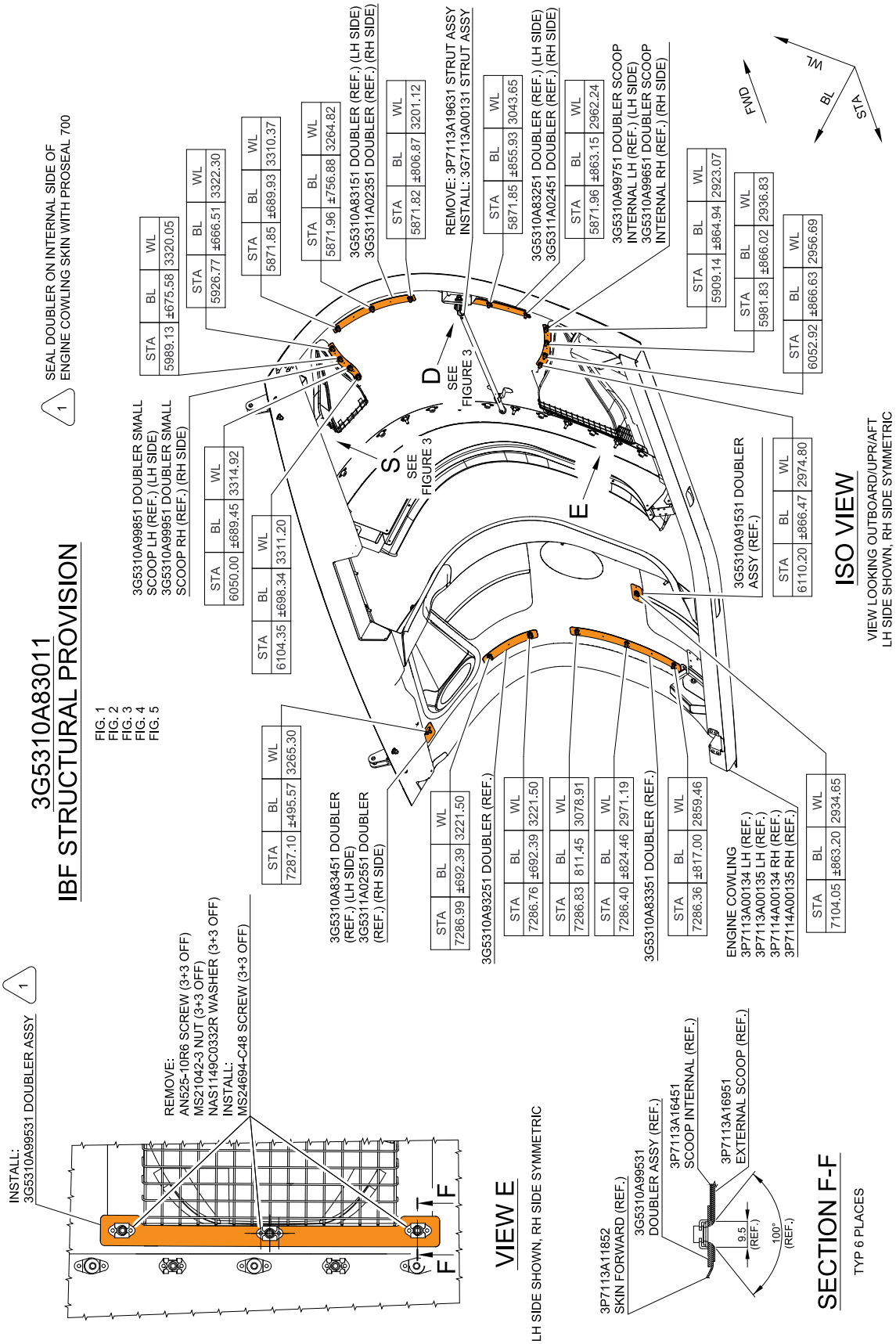
3G5310A83011
IBF STRUCTURAL PROVISION
FIG. 1
FIG. 2
FIG. 3
FIG. 4
FIG. 5
SEAL DOUBLER ON INTERNAL SIDE OF ENGINE COWLING SKIN WITH PROSEAL 700
3G5310A99851 DOUBLER SMALL SCOOP LH (REF.) (LH SIDE)
3G5310A99951 DOUBLER SMALL SCOOP RH (REF.) (RH SIDE)
3G5310A83151 DOUBLER (REF.) (LH SIDE)
3G5311A02351 DOUBLER (REF.) (RH SIDE)
REMOVE: 3P7113A19631 STRUT ASSY
INSTALL: 3G7113A00131 STRUT ASSY
3G5310A83251 DOUBLER (REF.) (LH SIDE)
3G5311A02451 DOUBLER (REF.) (RH SIDE)
3G5310A99751 DOUBLER SCOOP INTERNAL LH (REF.) (LH SIDE)
3G5310A99651 DOUBLER SCOOP INTERNAL RH (REF.) (RH SIDE)
3G5310A91531 DOUBLER ASSY (REF.)
3G5310A83451 DOUBLER (REF.) (LH SIDE)
3G5311A02551 DOUBLER (REF.) (RH SIDE)
3G5310A93251 DOUBLER (REF.)
3G5310A83351 DOUBLER (REF.)
ENGINE COWLING
3P7113A00134 LH (REF.)
3P7113A00135 LH (REF.)
3P7114A00134 RH (REF.)
3P7114A00135 RH (REF.)
INSTALL:
3G5310A99531 DOUBLER ASSY
REMOVE:
AN525-10R6 SCREW (3+3 OFF)
MS21042-3 NUT (3+3 OFF)
NAS1149C0332R WASHER (3+3 OFF)
INSTALL:
MS24694-C48 SCREW (3+3 OFF)
VIEW E
LH SIDE SHOWN, RH SIDE SYMMETRIC
3P7113A11852
SKIN FORWARD (REF.)
3G5310A99531
DOUBLER ASSY (REF.)
3P7113A16451
SCOOP INTERNAL (REF.)
3P7113A16951
EXTERNAL SCOOP (REF.)
9.5 (REF.)
100° (REF.)
SECTION F-F
TYP 6 PLACES
ISO VIEW
VIEW LOOKING OUTBOARD/UPR/AFT
LH SIDE SHOWN, RH SIDE SYMMETRIC
FWD
WL
BL
STA

Figure 1

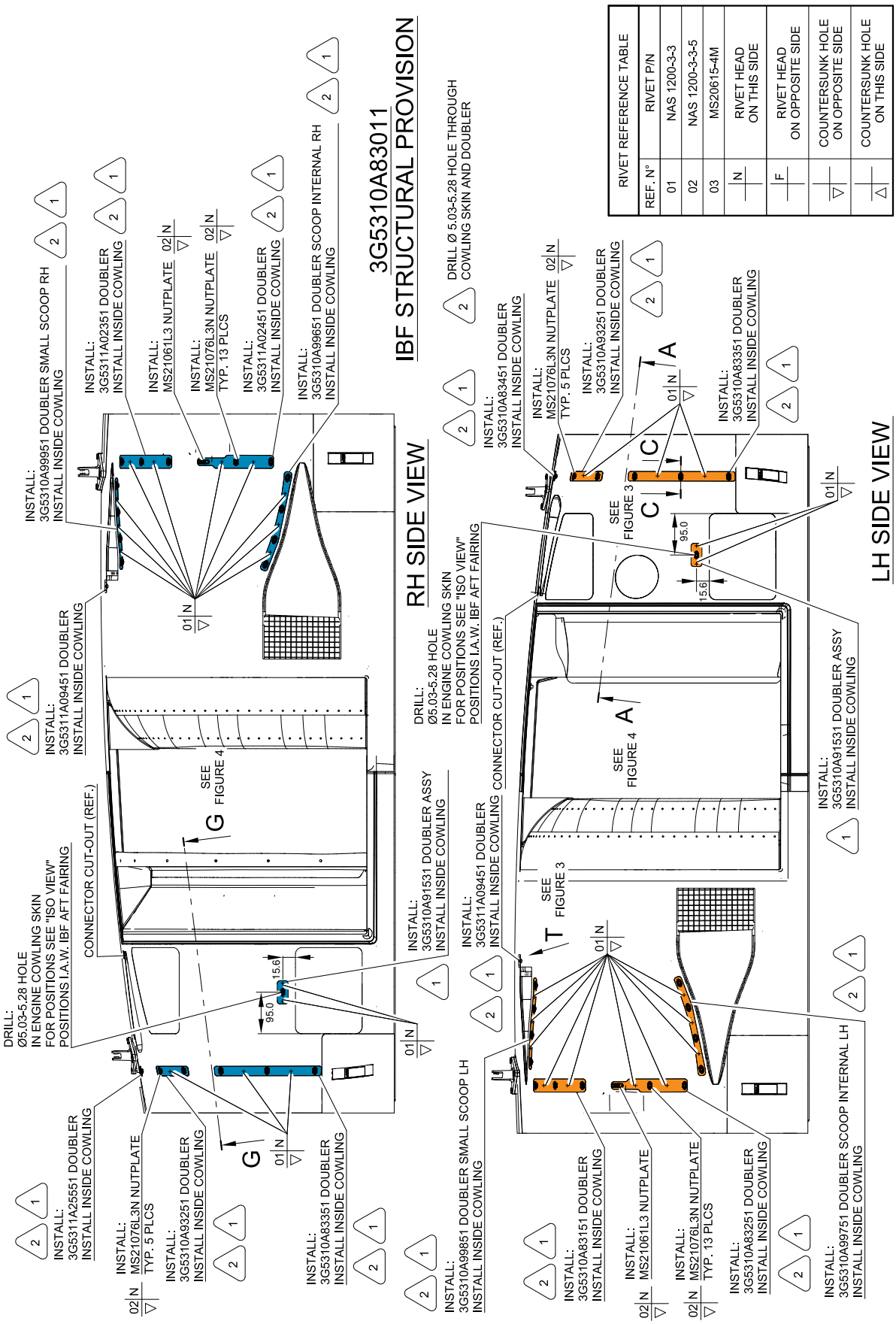
3G5310A83011
IBF STRUCTURAL PROVISION
RH SIDE VIEW
LH SIDE VIEW
RIVET REFERENCE TABLE
REF. N°
RIVET P/N
01
NAS 1200-3-3
02
NAS 1200-3-3-5
03
MS20615-4M
N
RIVET HEAD ON THIS SIDE
F
RIVET HEAD ON OPPOSITE SIDE
COUNTERSUNK HOLE ON OPPOSITE SIDE
COUNTERSUNK HOLE ON THIS SIDE
INSTALL: 3G5310A99951 DOUBLER SMALL SCOOP RH INSTALL INSIDE COWLING
INSTALL: 3G5311A02351 DOUBLER INSTALL INSIDE COWLING
INSTALL: MS21061L3 NUTPLATE
INSTALL: MS21076L3N NUTPLATE TYP. 13 PLCS
INSTALL: 3G5311A02451 DOUBLER INSTALL INSIDE COWLING
INSTALL: 3G5310A99651 DOUBLER SCOOP INTERNAL RH INSTALL INSIDE COWLING
INSTALL: 3G5311A09451 DOUBLER INSTALL INSIDE COWLING
CONNECTOR CUT-OUT (REF.)
DRILL: Ø5.03-5.28 HOLE IN ENGINE COWLING SKIN FOR POSITIONS SEE "ISO VIEW" POSITIONS I.A.W. IBF AFT FAIRING
INSTALL: 3G5311A25551 DOUBLER INSTALL INSIDE COWLING
INSTALL: MS21076L3N NUTPLATE TYP. 5 PLCS
INSTALL: 3G5310A93251 DOUBLER INSTALL INSIDE COWLING
INSTALL: 3G5310A83351 DOUBLER INSTALL INSIDE COWLING
INSTALL: 3G5310A99851 DOUBLER SMALL SCOOP LH INSTALL INSIDE COWLING
INSTALL: 3G5310A91531 DOUBLER ASSY INSTALL INSIDE COWLING
DRILL: Ø5.03-5.28 HOLE IN ENGINE COWLING SKIN FOR POSITIONS SEE "ISO VIEW" POSITIONS I.A.W. IBF AFT FAIRING
DRILL Ø 5.03-5.28 HOLE THROUGH COWLING SKIN AND DOUBLER
INSTALL: 3G5310A83451 DOUBLER INSTALL INSIDE COWLING
INSTALL: MS21076L3N NUTPLATE TYP. 5 PLCS
INSTALL: 3G5310A93251 DOUBLER INSTALL INSIDE COWLING
INSTALL: 3G5310A83351 DOUBLER INSTALL INSIDE COWLING
INSTALL: 3G5311A09451 DOUBLER INSTALL INSIDE COWLING
CONNECTOR CUT-OUT (REF.)
INSTALL: 3G5310A83151 DOUBLER INSTALL INSIDE COWLING
INSTALL: MS21061L3 NUTPLATE
INSTALL: MS21076L3N NUTPLATE TYP. 13 PLCS
INSTALL: 3G5310A83251 DOUBLER INSTALL INSIDE COWLING
INSTALL: 3G5310A99751 DOUBLER SCOOP INTERNAL LH INSTALL INSIDE COWLING
INSTALL: 3G5310A91531 DOUBLER ASSY INSTALL INSIDE COWLING
SEE FIGURE 3
SEE FIGURE 4
95.0
15.6

Figure 2

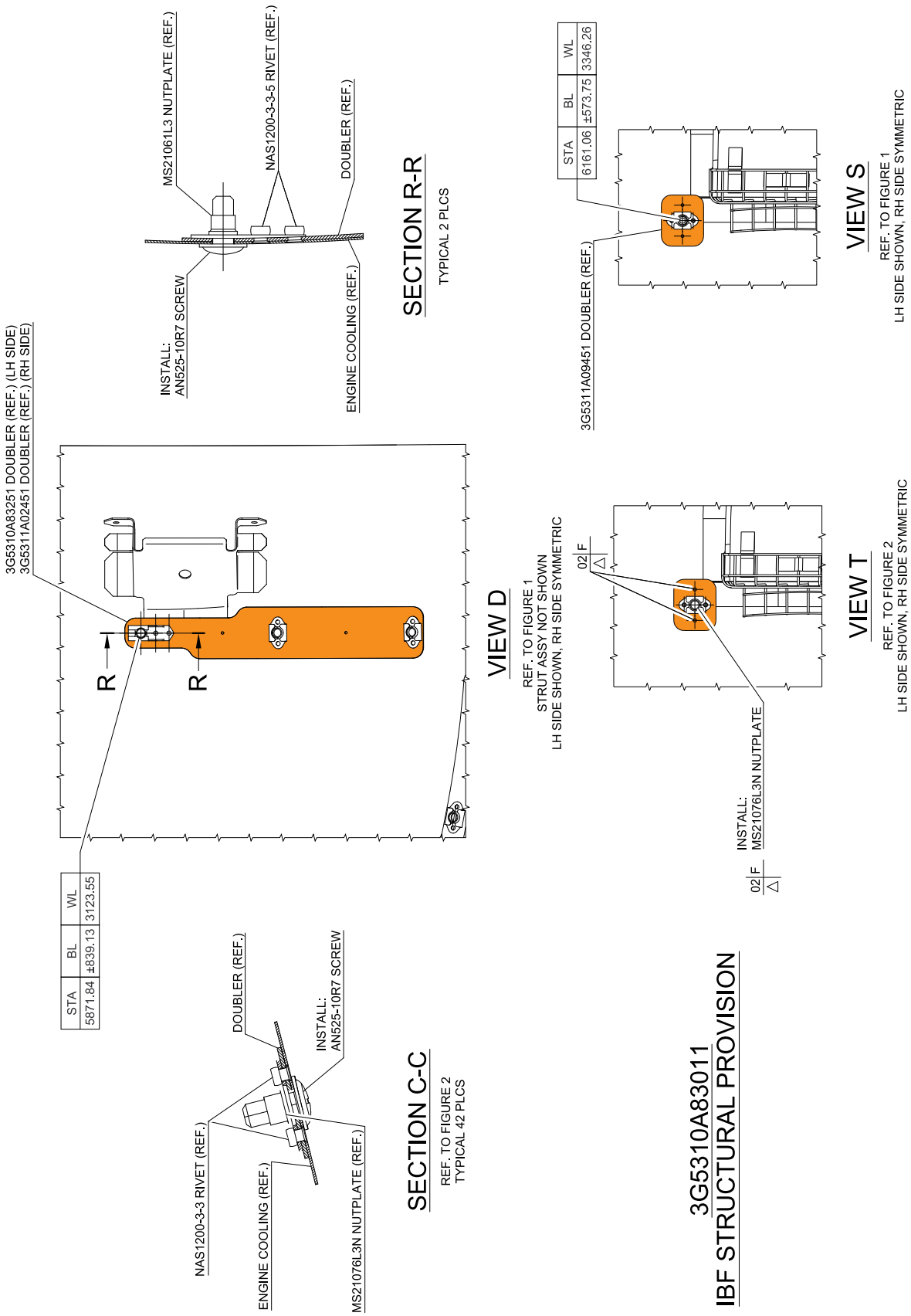
3G5310A83011
IBF STRUCTURAL PROVISION
3G5310A83251 DOUBLER (REF.) (LH SIDE)
3G5311A02451 DOUBLER (REF.) (RH SIDE)
STA 5871.84
BL ±839.13
WL 3123.55
R
R
VIEW D
REF. TO FIGURE 1
STRUT ASSY NOT SHOWN
LH SIDE SHOWN, RH SIDE SYMMETRIC
02 F
INSTALL:
MS21076L3N NUTPLATE
SECTION R-R
TYPICAL 2 PLCS
MS21061L3 NUTPLATE (REF.)
NAS1200-3-3-5 RIVET (REF.)
DOUBLER (REF.)
INSTALL:
AN525-10R7 SCREW
ENGINE COOLING (REF.)
SECTION C-C
REF. TO FIGURE 2
TYPICAL 42 PLCS
DOUBLER (REF.)
INSTALL:
AN525-10R7 SCREW
NAS1200-3-3 RIVET (REF.)
ENGINE COOLING (REF.)
MS21076L3N NUTPLATE (REF.)
3G5311A09451 DOUBLER (REF.)
STA 6161.06
BL ±573.75
WL 3346.26
VIEW S
REF. TO FIGURE 1
LH SIDE SHOWN, RH SIDE SYMMETRIC
VIEW T
REF. TO FIGURE 2
LH SIDE SHOWN, RH SIDE SYMMETRIC

Figure 3

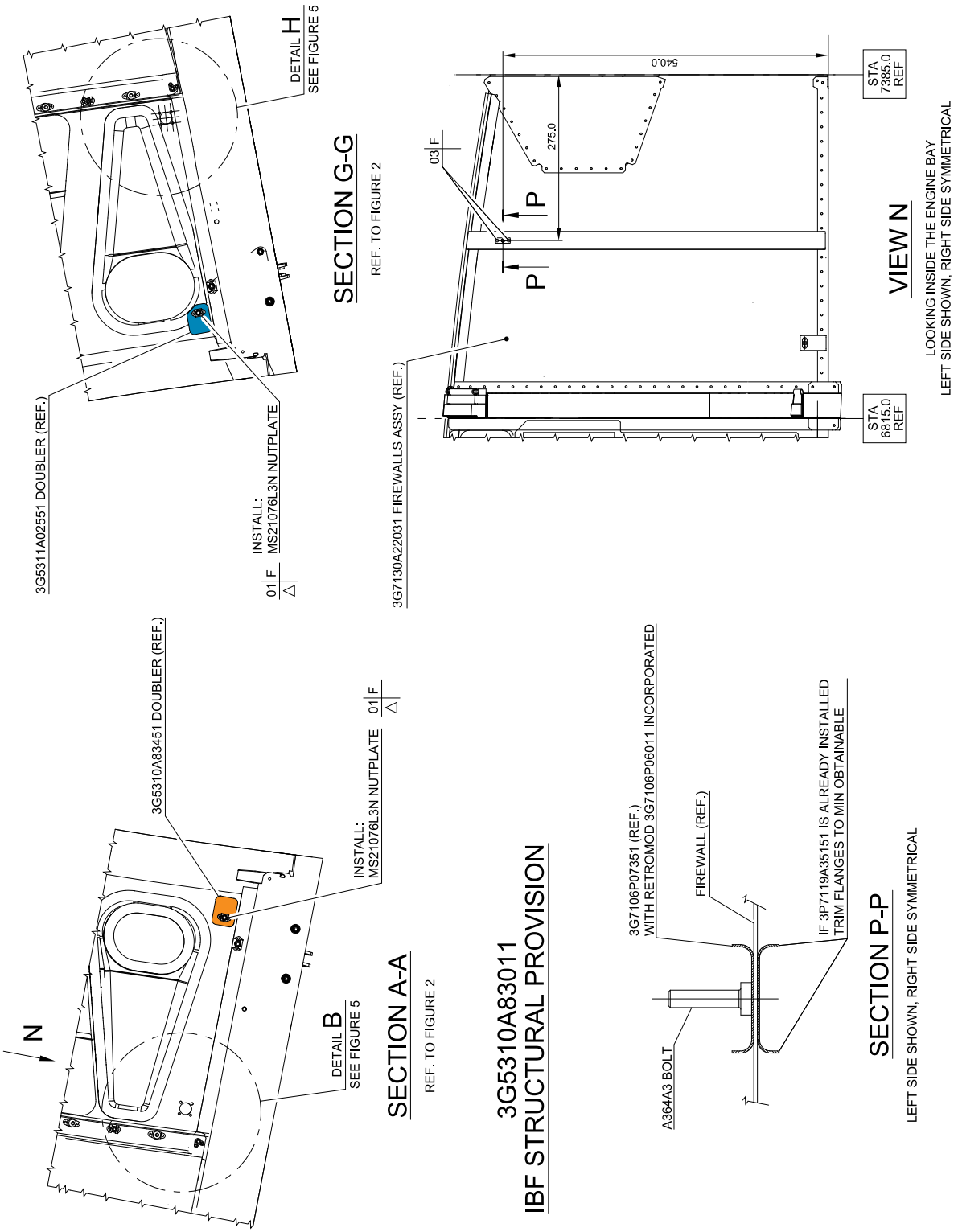
DETAIL H
SEE FIGURE 5
3G5311A02551 DOUBLER (REF.)
INSTALL:
MS21076L3N NUTPLATE
01 F
SECTION G-G
REF. TO FIGURE 2
3G7130A22031 FIREWALLS ASSY (REF.)
03 F
P
P
275.0
540.0
STA
7385.0
REF
STA
6815.0
REF
VIEW N
LOOKING INSIDE THE ENGINE BAY
LEFT SIDE SHOWN, RIGHT SIDE SYMMETRICAL
N
3G5310A83451 DOUBLER (REF.)
INSTALL:
MS21076L3N NUTPLATE
01 F
DETAIL B
SEE FIGURE 5
SECTION A-A
REF. TO FIGURE 2
3G5310A83011
IBF STRUCTURAL PROVISION
3G7106P07351 (REF.)
WITH RETROMOD 3G7106P06011 INCORPORATED
FIREWALL (REF.)
IF 3P7119A35151 IS ALREADY INSTALLED
TRIM FLANGES TO MIN OBTAINABLE
A364A3 BOLT
SECTION P-P
LEFT SIDE SHOWN, RIGHT SIDE SYMMETRICAL

Figure 4

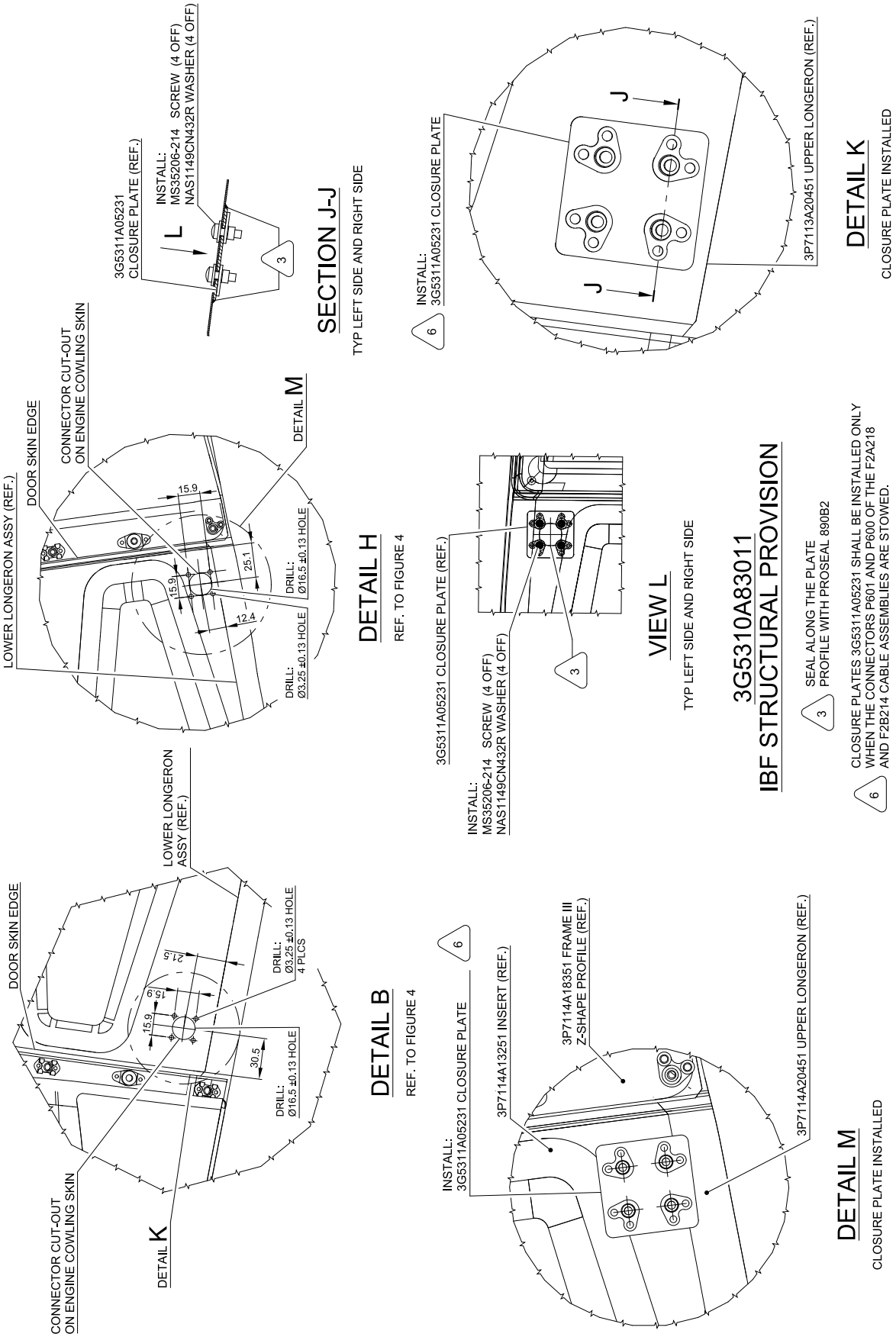
DETAIL K
CONNECTOR CUT-OUT
ON ENGINE COWLING SKIN
DOOR SKIN EDGE
LOWER LONGERON
ASSY (REF.)
DRILL:
Ø3.25 ±0.13 HOLE
4 PLCS
DRILL:
Ø16.5 ±0.13 HOLE
15.9
21.6
30.5
DETAIL B
REF. TO FIGURE 4
INSTALL:
3G5311A05231 CLOSURE PLATE
6
3P7114A13251 INSERT (REF.)
3P7114A18351 FRAME III
Z-SHAPE PROFILE (REF.)
3P7114A20451 UPPER LONGERON (REF.)
DETAIL M
CLOSURE PLATE INSTALLED
3G5310A83011
IBF STRUCTURAL PROVISION
3
SEAL ALONG THE PLATE
PROFILE WITH PROSEAL 890B2
6
CLOSURE PLATES 3G5311A05231 SHALL BE INSTALLED ONLY
WHEN THE CONNECTORS P601 AND P600 OF THE F2A218
AND F2B214 CABLE ASSEMBLIES ARE STOWED.
VIEW L
TYP LEFT SIDE AND RIGHT SIDE
3G5311A05231 CLOSURE PLATE (REF.)
INSTALL:
MS35206-214 SCREW (4 OFF)
NAS1149CN432R WASHER (4 OFF)
3
DETAIL H
REF. TO FIGURE 4
LOWER LONGERON ASSY (REF.)
DOOR SKIN EDGE
CONNECTOR CUT-OUT
ON ENGINE COWLING SKIN
DETAIL M
15.9
25.1
12.4
DRILL:
Ø16.5 ±0.13 HOLE
DRILL:
Ø3.25 ±0.13 HOLE
SECTION J-J
TYP LEFT SIDE AND RIGHT SIDE
3G5311A05231
CLOSURE PLATE (REF.)
INSTALL:
MS35206-214 SCREW (4 OFF)
NAS1149CN432R WASHER (4 OFF)
L
3
INSTALL:
3G5311A05231 CLOSURE PLATE
6
J
J
3P7113A20451 UPPER LONGERON (REF.)
DETAIL K
CLOSURE PLATE INSTALLED

Figure 5

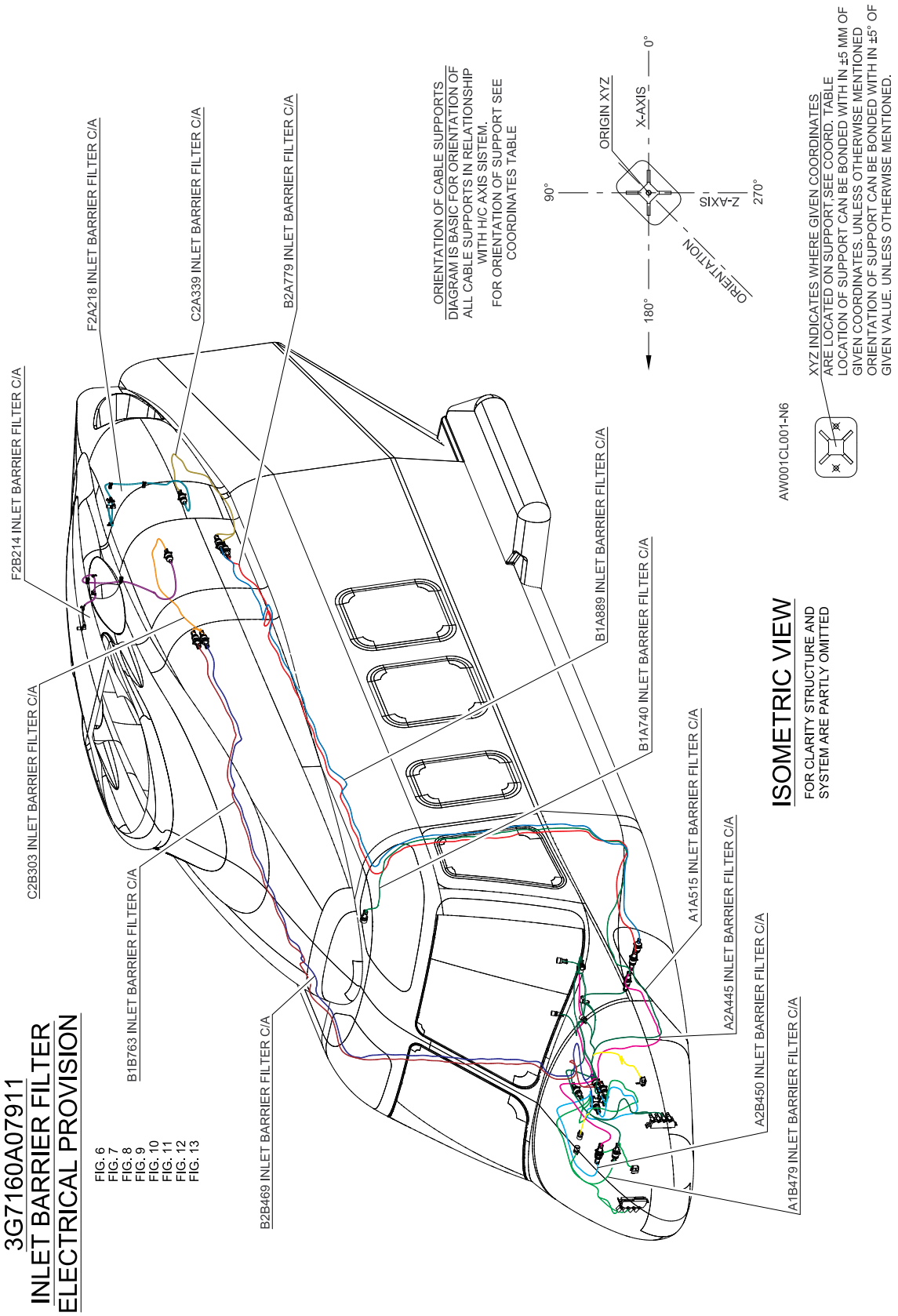
3G7160A07911
INLET BARRIER FILTER
ELECTRICAL PROVISION
FIG. 6
FIG. 7
FIG. 8
FIG. 9
FIG. 10
FIG. 11
FIG. 12
FIG. 13
F2B214 INLET BARRIER FILTER C/A
F2A218 INLET BARRIER FILTER C/A
C2A339 INLET BARRIER FILTER C/A
B2A779 INLET BARRIER FILTER C/A
C2B303 INLET BARRIER FILTER C/A
B1B763 INLET BARRIER FILTER C/A
B2B469 INLET BARRIER FILTER C/A
B1A889 INLET BARRIER FILTER C/A
B1A740 INLET BARRIER FILTER C/A
A1A515 INLET BARRIER FILTER C/A
A2A445 INLET BARRIER FILTER C/A
A2B450 INLET BARRIER FILTER C/A
A1B479 INLET BARRIER FILTER C/A
ISOMETRIC VIEW
FOR CLARITY STRUCTURE AND SYSTEM ARE PARTLY OMITTED
ORIENTATION OF CABLE SUPPORTS DIAGRAM IS BASIC FOR ORIENTATION OF ALL CABLE SUPPORTS IN RELATIONSHIP WITH H/C AXIS SISTEM. FOR ORIENTATION OF SUPPORT SEE COORDINATES TABLE
90°
180°
0°
270°
ORIGIN XYZ
X-AXIS
Z-AXIS
ORIENTATION
AW001CL001-N6
XYZ INDICATES WHERE GIVEN COORDINATES ARE LOCATED ON SUPPORT,SEE COORD. TABLE
LOCATION OF SUPPORT CAN BE BONDED WITH IN ±5 MM OF GIVEN COORDINATES. UNLESS OTHERWISE MENTIONED
ORIENTATION OF SUPPORT CAN BE BONDED WITH IN ±5° OF GIVEN VALUE. UNLESS OTHERWISE MENTIONED.

Figure 6

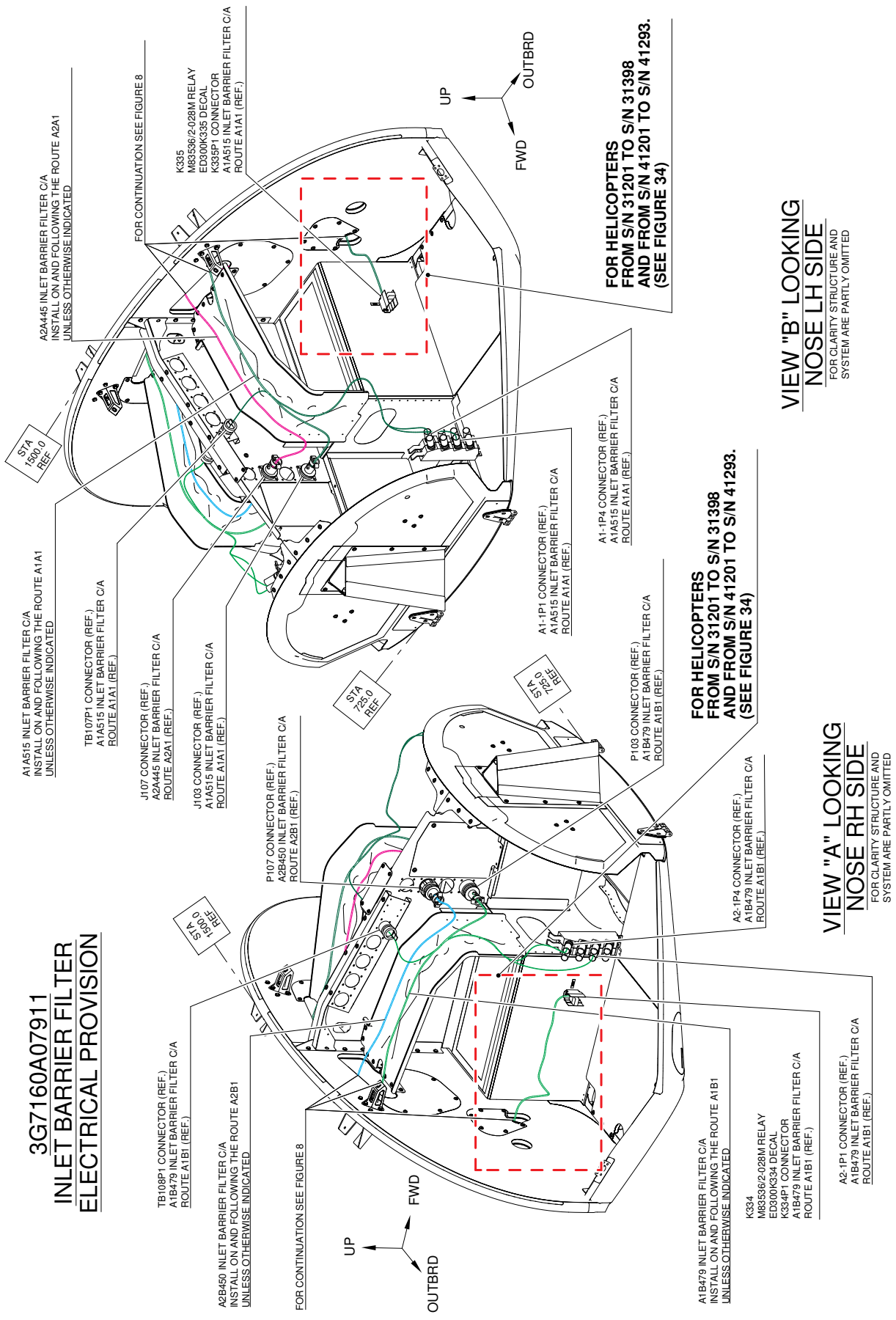
3G7160A07911
INLET BARRIER FILTER
ELECTRICAL PROVISION
VIEW "A" LOOKING
NOSE RH SIDE
FOR CLARITY STRUCTURE AND
SYSTEM ARE PARTLY OMITTED
VIEW "B" LOOKING
NOSE LH SIDE
FOR CLARITY STRUCTURE AND
SYSTEM ARE PARTLY OMITTED
FOR HELICOPTERS
FROM S/N 31201 TO S/N 31398
AND FROM S/N 41201 TO S/N 41293.
(SEE FIGURE 34)
FOR HELICOPTERS
FROM S/N 31201 TO S/N 31398
AND FROM S/N 41201 TO S/N 41293.
(SEE FIGURE 34)
UP
FWD
OUTBRD
STA 1500.0 REF
STA 725.0 REF
STA 1500.0 REF
FOR CONTINUATION SEE FIGURE 8
FOR CONTINUATION SEE FIGURE 8
A1A515 INLET BARRIER FILTER C/A
INSTALL ON AND FOLLOWING THE ROUTE A1A1
UNLESS OTHERWISE INDICATED
A2A445 INLET BARRIER FILTER C/A
INSTALL ON AND FOLLOWING THE ROUTE A2A1
UNLESS OTHERWISE INDICATED
A2B450 INLET BARRIER FILTER C/A
INSTALL ON AND FOLLOWING THE ROUTE A2B1
UNLESS OTHERWISE INDICATED
A1B479 INLET BARRIER FILTER C/A
INSTALL ON AND FOLLOWING THE ROUTE A1B1
UNLESS OTHERWISE INDICATED
TB107P1 CONNECTOR (REF.)
A1A515 INLET BARRIER FILTER C/A
ROUTE A1A1 (REF.)
J107 CONNECTOR (REF.)
A2A445 INLET BARRIER FILTER C/A
ROUTE A2A1 (REF.)
J103 CONNECTOR (REF.)
A1A515 INLET BARRIER FILTER C/A
ROUTE A1A1 (REF.)
P107 CONNECTOR (REF.)
A2B450 INLET BARRIER FILTER C/A
ROUTE A2B1 (REF.)
TB108P1 CONNECTOR (REF.)
A1B479 INLET BARRIER FILTER C/A
ROUTE A1B1 (REF.)
K335
M83536/2-028M RELAY
ED300K335 DECAL
K335P1 CONNECTOR
A1A515 INLET BARRIER FILTER C/A
ROUTE A1A1 (REF.)
A1-1P1 CONNECTOR (REF.)
A1A515 INLET BARRIER FILTER C/A
ROUTE A1A1 (REF.)
A1-1P4 CONNECTOR (REF.)
A1A515 INLET BARRIER FILTER C/A
ROUTE A1A1 (REF.)
P103 CONNECTOR (REF.)
A1B479 INLET BARRIER FILTER C/A
ROUTE A1B1 (REF.)
A2-1P4 CONNECTOR (REF.)
A1B479 INLET BARRIER FILTER C/A
ROUTE A1B1 (REF.)
K334
M83536/2-028M RELAY
ED300K334 DECAL
K334P1 CONNECTOR
A1B479 INLET BARRIER FILTER C/A
ROUTE A1B1 (REF.)
A2-1P1 CONNECTOR (REF.)
A1B479 INLET BARRIER FILTER C/A
ROUTE A1B1 (REF.)

Figure 7

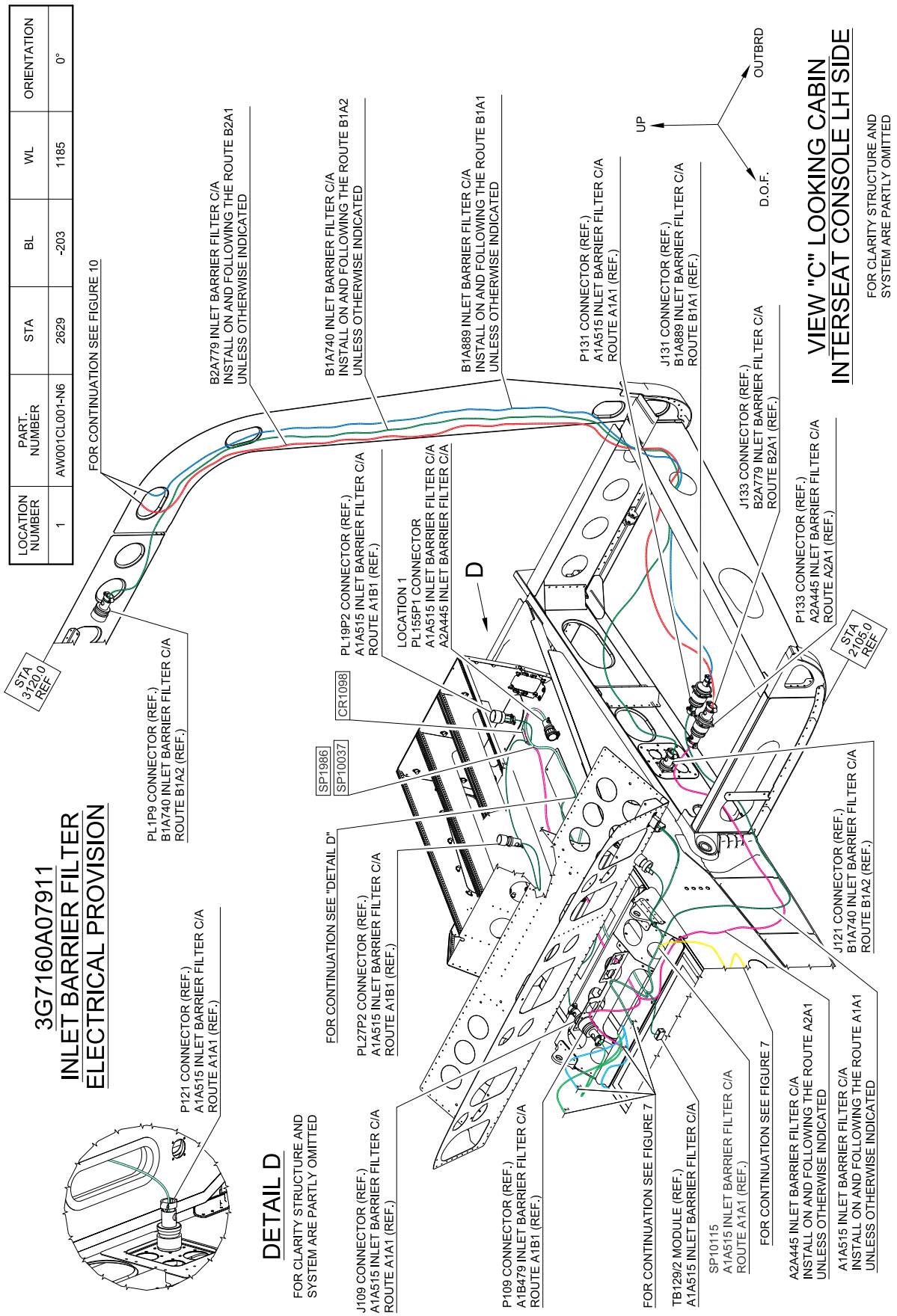
3G7160A07911
INLET BARRIER FILTER
ELECTRICAL PROVISION
LOCATION NUMBER
PART. NUMBER
STA
BL
WL
ORIENTATION
1
AW001CL001-N6
2629
-203
1185
0°
FOR CONTINUATION SEE FIGURE 10
B2A779 INLET BARRIER FILTER C/A
INSTALL ON AND FOLLOWING THE ROUTE B2A1
UNLESS OTHERWISE INDICATED
B1A740 INLET BARRIER FILTER C/A
INSTALL ON AND FOLLOWING THE ROUTE B1A2
UNLESS OTHERWISE INDICATED
B1A889 INLET BARRIER FILTER C/A
INSTALL ON AND FOLLOWING THE ROUTE B1A1
UNLESS OTHERWISE INDICATED
STA 3120.0 REF
PL1P9 CONNECTOR (REF.)
B1A740 INLET BARRIER FILTER C/A
ROUTE B1A2 (REF.)
P121 CONNECTOR (REF.)
A1A515 INLET BARRIER FILTER C/A
ROUTE A1A1 (REF.)
DETAIL D
FOR CLARITY STRUCTURE AND
SYSTEM ARE PARTLY OMITTED
FOR CONTINUATION SEE "DETAIL D"
SP1986
SP10037
CR1098
PL19P2 CONNECTOR (REF.)
A1A515 INLET BARRIER FILTER C/A
ROUTE A1B1 (REF.)
LOCATION 1
PL155P1 CONNECTOR
A1A515 INLET BARRIER FILTER C/A
A2A445 INLET BARRIER FILTER C/A
D
PL27P2 CONNECTOR (REF.)
A1A515 INLET BARRIER FILTER C/A
ROUTE A1B1 (REF.)
J109 CONNECTOR (REF.)
A1A515 INLET BARRIER FILTER C/A
ROUTE A1A1 (REF.)
P109 CONNECTOR (REF.)
A1B479 INLET BARRIER FILTER C/A
ROUTE A1B1 (REF.)
FOR CONTINUATION SEE FIGURE 7
TB129/2 MODULE (REF.)
A1A515 INLET BARRIER FILTER C/A
SP10115
A1A515 INLET BARRIER FILTER C/A
ROUTE A1A1 (REF.)
FOR CONTINUATION SEE FIGURE 7
A2A445 INLET BARRIER FILTER C/A
INSTALL ON AND FOLLOWING THE ROUTE A2A1
UNLESS OTHERWISE INDICATED
A1A515 INLET BARRIER FILTER C/A
INSTALL ON AND FOLLOWING THE ROUTE A1A1
UNLESS OTHERWISE INDICATED
P131 CONNECTOR (REF.)
A1A515 INLET BARRIER FILTER C/A
ROUTE A1A1 (REF.)
J131 CONNECTOR (REF.)
B1A889 INLET BARRIER FILTER C/A
ROUTE B1A1 (REF.)
J133 CONNECTOR (REF.)
B2A779 INLET BARRIER FILTER C/A
ROUTE B2A1 (REF.)
P133 CONNECTOR (REF.)
A2A445 INLET BARRIER FILTER C/A
ROUTE A2A1 (REF.)
J121 CONNECTOR (REF.)
B1A740 INLET BARRIER FILTER C/A
ROUTE B1A2 (REF.)
STA 2105.0 REF
UP
OUTBRD
D.O.F.
VIEW "C" LOOKING CABIN
INTERSEAT CONSOLE LH SIDE
FOR CLARITY STRUCTURE AND
SYSTEM ARE PARTLY OMITTED

Figure 8

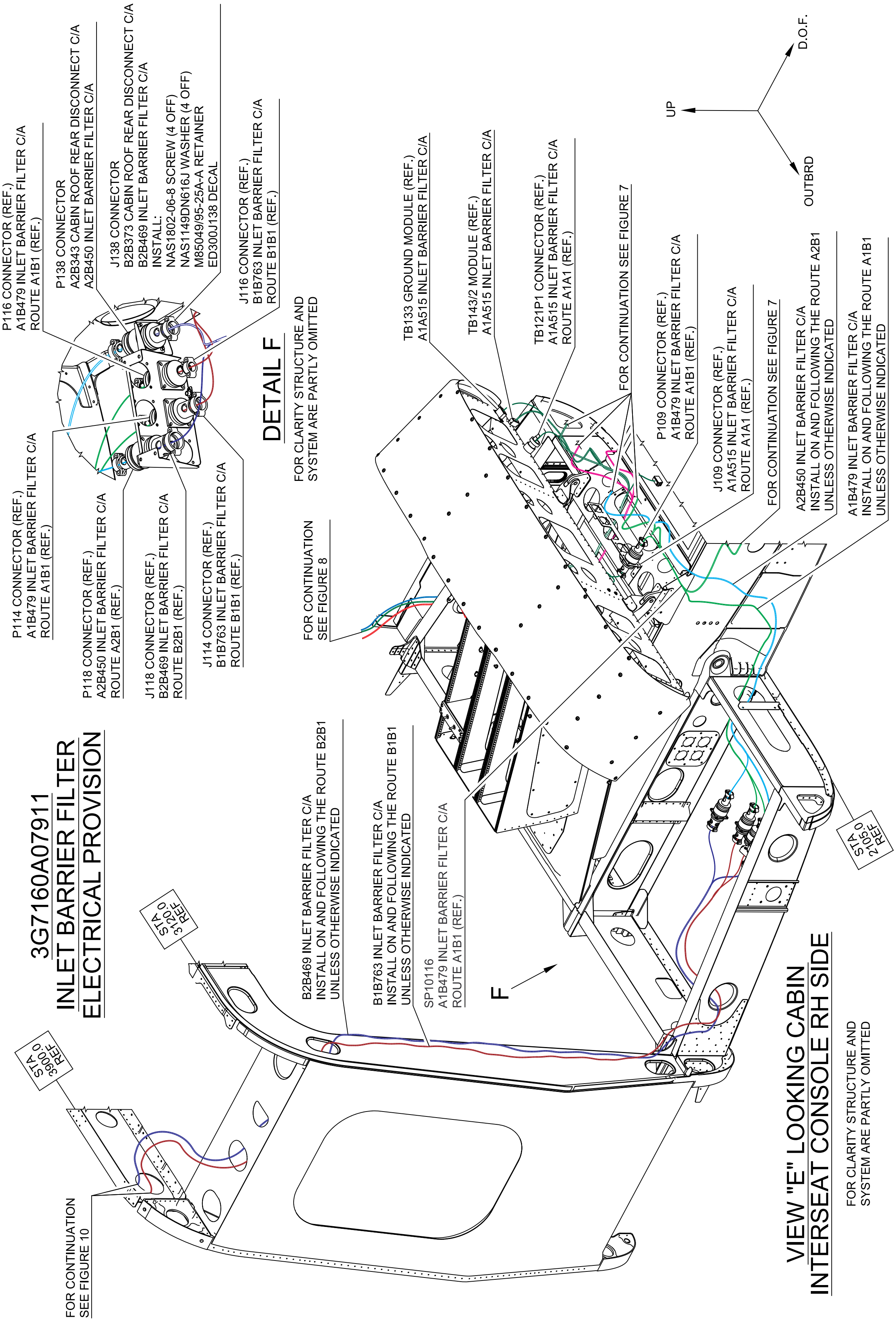
3G7160A07911
INLET BARRIER FILTER
ELECTRICAL PROVISION
P116 CONNECTOR (REF.)
A1B479 INLET BARRIER FILTER C/A
ROUTE A1B1 (REF.)
P138 CONNECTOR
A2B343 CABIN ROOF REAR DISCONNECT C/A
A2B450 INLET BARRIER FILTER C/A
J138 CONNECTOR
B2B373 CABIN ROOF REAR DISCONNECT C/A
B2B469 INLET BARRIER FILTER C/A
INSTALL:
NAS1802-06-8 SCREW (4 OFF)
NAS1149DN616J WASHER (4 OFF)
M85049/95-25A-A RETAINER
ED300J138 DECAL
J116 CONNECTOR (REF.)
B1B763 INLET BARRIER FILTER C/A
ROUTE B1B1 (REF.)
P114 CONNECTOR (REF.)
A1B479 INLET BARRIER FILTER C/A
ROUTE A1B1 (REF.)
P118 CONNECTOR (REF.)
A2B450 INLET BARRIER FILTER C/A
ROUTE A2B1 (REF.)
J118 CONNECTOR (REF.)
B2B469 INLET BARRIER FILTER C/A
ROUTE B2B1 (REF.)
J114 CONNECTOR (REF.)
B1B763 INLET BARRIER FILTER C/A
ROUTE B1B1 (REF.)
DETAIL F
FOR CLARITY STRUCTURE AND
SYSTEM ARE PARTLY OMITTED
FOR CONTINUATION
SEE FIGURE 8
TB133 GROUND MODULE (REF.)
A1A515 INLET BARRIER FILTER C/A
TB143/2 MODULE (REF.)
A1A515 INLET BARRIER FILTER C/A
TB121P1 CONNECTOR (REF.)
A1A515 INLET BARRIER FILTER C/A
ROUTE A1A1 (REF.)
FOR CONTINUATION SEE FIGURE 7
P109 CONNECTOR (REF.)
A1B479 INLET BARRIER FILTER C/A
ROUTE A1B1 (REF.)
J109 CONNECTOR (REF.)
A1A515 INLET BARRIER FILTER C/A
ROUTE A1A1 (REF.)
FOR CONTINUATION SEE FIGURE 7
A2B450 INLET BARRIER FILTER C/A
INSTALL ON AND FOLLOWING THE ROUTE A2B1
UNLESS OTHERWISE INDICATED
A1B479 INLET BARRIER FILTER C/A
INSTALL ON AND FOLLOWING THE ROUTE A1B1
UNLESS OTHERWISE INDICATED
UP
D.O.F.
OUTBRD
STA 3900.0 REF
STA 3120.0 REF
STA 2105.0 REF
B2B469 INLET BARRIER FILTER C/A
INSTALL ON AND FOLLOWING THE ROUTE B2B1
UNLESS OTHERWISE INDICATED
B1B763 INLET BARRIER FILTER C/A
INSTALL ON AND FOLLOWING THE ROUTE B1B1
UNLESS OTHERWISE INDICATED
SP10116
A1B479 INLET BARRIER FILTER C/A
ROUTE A1B1 (REF.)
F
FOR CONTINUATION
SEE FIGURE 10
VIEW "E" LOOKING CABIN
INTERSEAT CONSOLE RH SIDE
FOR CLARITY STRUCTURE AND
SYSTEM ARE PARTLY OMITTED

Figure 9

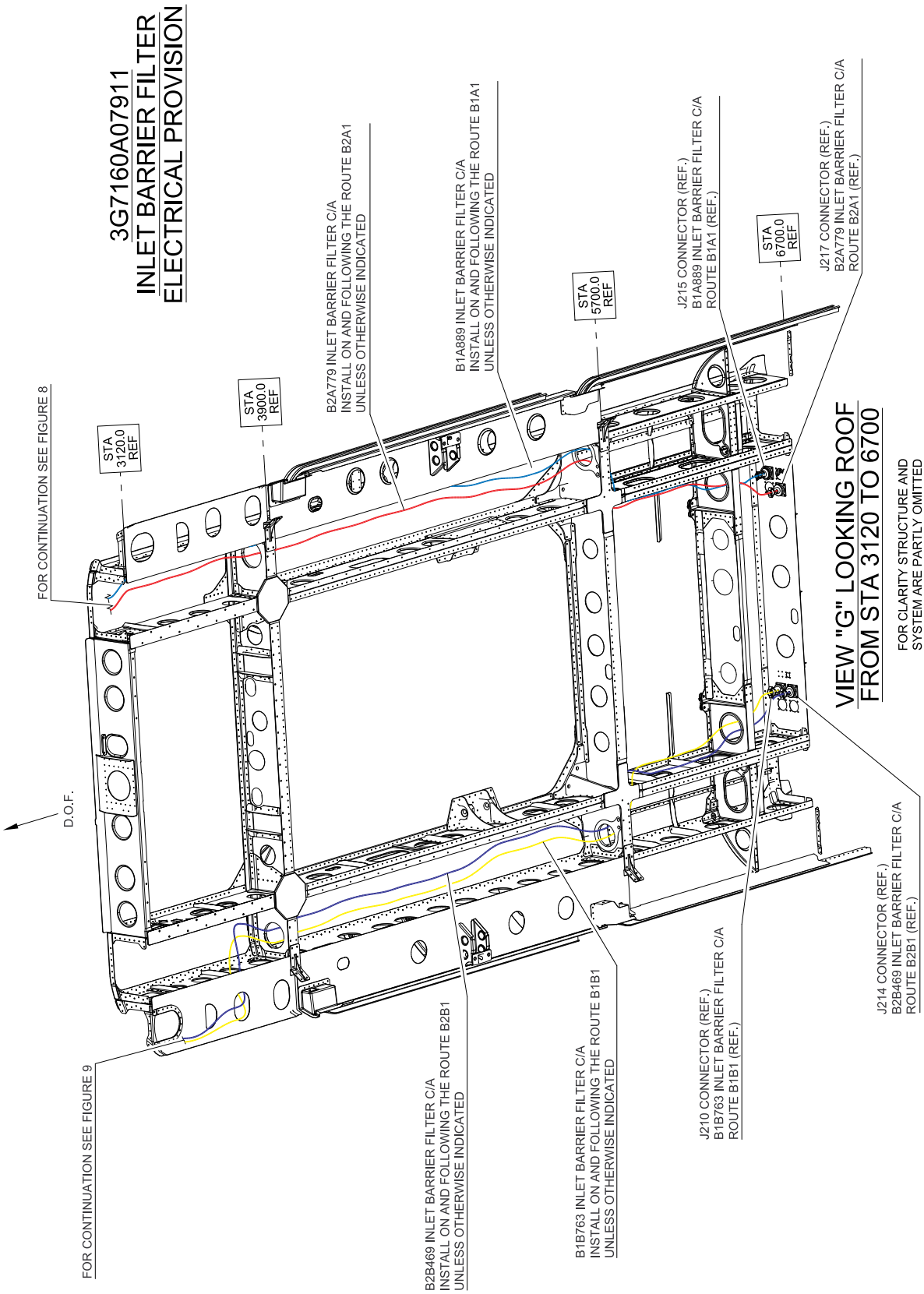
3G7160A07911
INLET BARRIER FILTER
ELECTRICAL PROVISION
VIEW "G" LOOKING ROOF
FROM STA 3120 TO 6700
FOR CLARITY STRUCTURE AND
SYSTEM ARE PARTLY OMITTED
D.O.F.
FOR CONTINUATION SEE FIGURE 8
FOR CONTINUATION SEE FIGURE 9
STA 3120.0 REF
STA 3900.0 REF
STA 5700.0 REF
STA 6700.0 REF
B2A779 INLET BARRIER FILTER C/A
INSTALL ON AND FOLLOWING THE ROUTE B2A1
UNLESS OTHERWISE INDICATED
B1A889 INLET BARRIER FILTER C/A
INSTALL ON AND FOLLOWING THE ROUTE B1A1
UNLESS OTHERWISE INDICATED
B2B469 INLET BARRIER FILTER C/A
INSTALL ON AND FOLLOWING THE ROUTE B2B1
UNLESS OTHERWISE INDICATED
B1B763 INLET BARRIER FILTER C/A
INSTALL ON AND FOLLOWING THE ROUTE B1B1
UNLESS OTHERWISE INDICATED
J215 CONNECTOR (REF.)
B1A889 INLET BARRIER FILTER C/A
ROUTE B1A1 (REF.)
J217 CONNECTOR (REF.)
B2A779 INLET BARRIER FILTER C/A
ROUTE B2A1 (REF.)
J210 CONNECTOR (REF.)
B1B763 INLET BARRIER FILTER C/A
ROUTE B1B1 (REF.)
J214 CONNECTOR (REF.)
B2B469 INLET BARRIER FILTER C/A
ROUTE B2B1 (REF.)

Figure 10

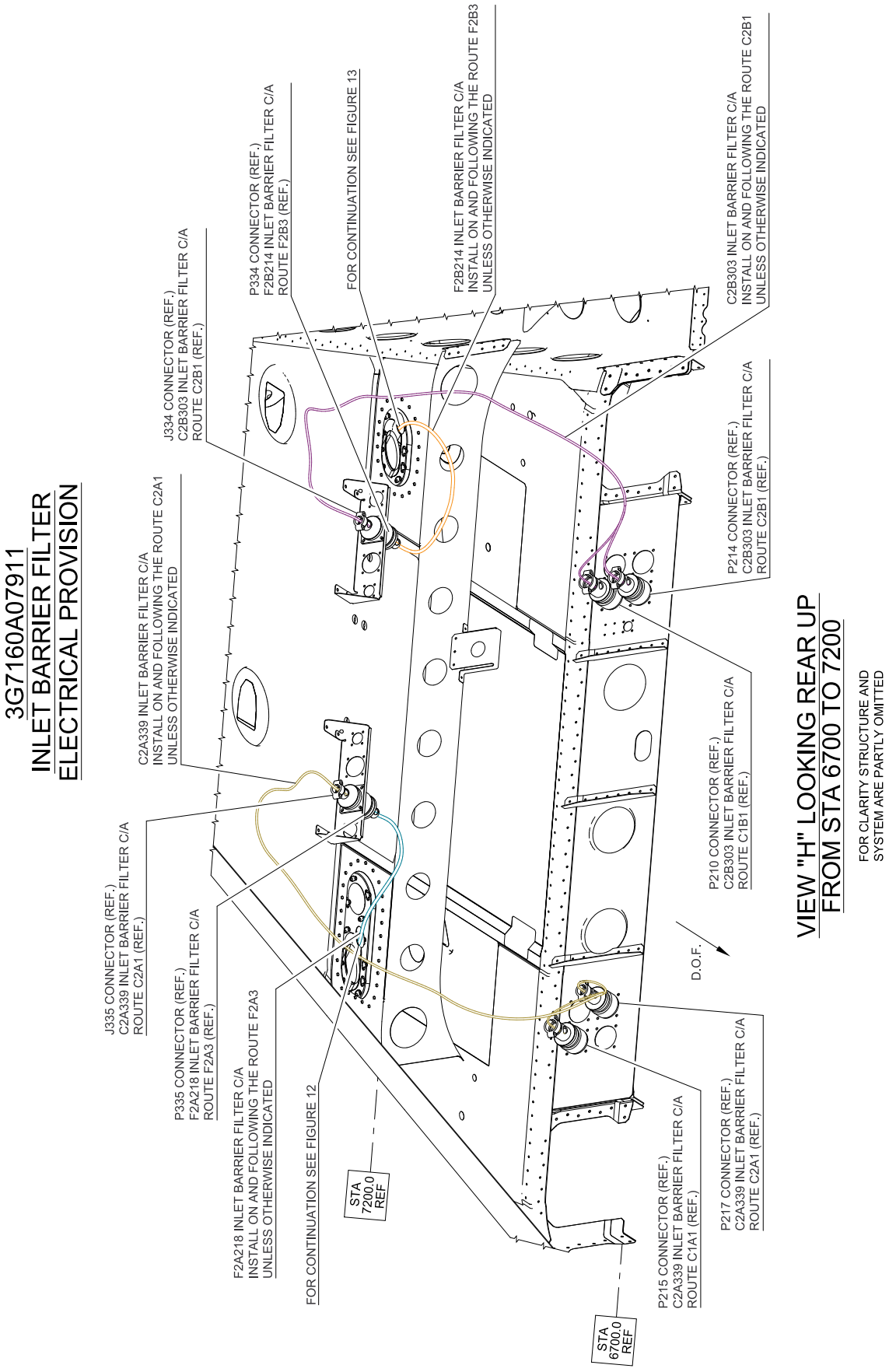
3G7160A07911
INLET BARRIER FILTER
ELECTRICAL PROVISION
J334 CONNECTOR (REF.)
C2B303 INLET BARRIER FILTER C/A
ROUTE C2B1 (REF.)
P334 CONNECTOR (REF.)
F2B214 INLET BARRIER FILTER C/A
ROUTE F2B3 (REF.)
FOR CONTINUATION SEE FIGURE 13
F2B214 INLET BARRIER FILTER C/A
INSTALL ON AND FOLLOWING THE ROUTE F2B3
UNLESS OTHERWISE INDICATED
C2B303 INLET BARRIER FILTER C/A
INSTALL ON AND FOLLOWING THE ROUTE C2B1
UNLESS OTHERWISE INDICATED
C2A339 INLET BARRIER FILTER C/A
INSTALL ON AND FOLLOWING THE ROUTE C2A1
UNLESS OTHERWISE INDICATED
P214 CONNECTOR (REF.)
C2B303 INLET BARRIER FILTER C/A
ROUTE C2B1 (REF.)
J335 CONNECTOR (REF.)
C2A339 INLET BARRIER FILTER C/A
ROUTE C2A1 (REF.)
P335 CONNECTOR (REF.)
F2A218 INLET BARRIER FILTER C/A
ROUTE F2A3 (REF.)
F2A218 INLET BARRIER FILTER C/A
INSTALL ON AND FOLLOWING THE ROUTE F2A3
UNLESS OTHERWISE INDICATED
FOR CONTINUATION SEE FIGURE 12
P210 CONNECTOR (REF.)
C2B303 INLET BARRIER FILTER C/A
ROUTE C1B1 (REF.)
D.O.F.
STA 7200.0 REF
STA 6700.0 REF
P215 CONNECTOR (REF.)
C2A339 INLET BARRIER FILTER C/A
ROUTE C1A1 (REF.)
P217 CONNECTOR (REF.)
C2A339 INLET BARRIER FILTER C/A
ROUTE C2A1 (REF.)
VIEW "H" LOOKING REAR UP
FROM STA 6700 TO 7200
FOR CLARITY STRUCTURE AND
SYSTEM ARE PARTLY OMITTED

Figure 11

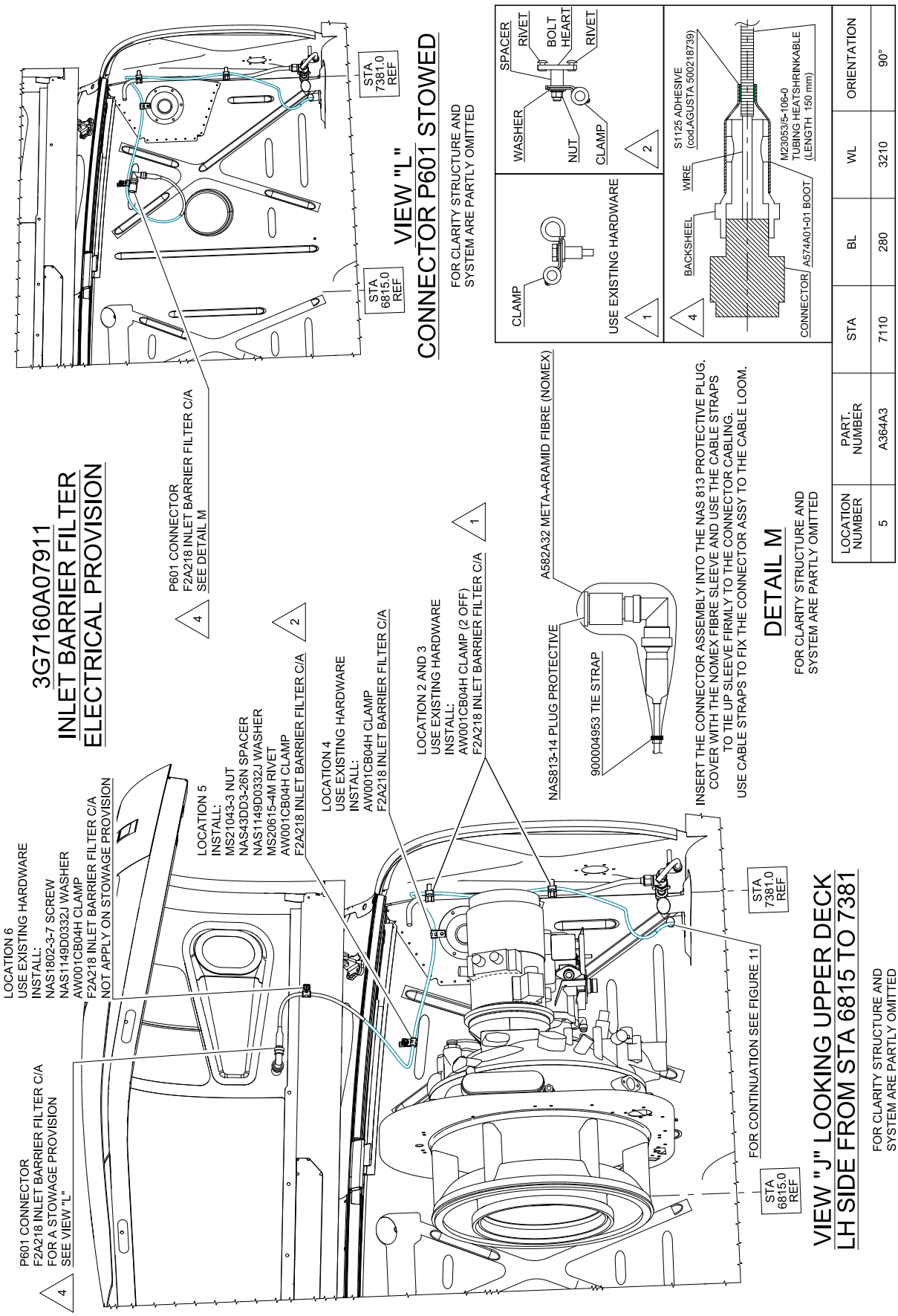
3G7160A07911
INLET BARRIER FILTER
ELECTRICAL PROVISION
VIEW "L"
CONNECTOR P601 STOWED
FOR CLARITY STRUCTURE AND SYSTEM ARE PARTLY OMITTED
P601 CONNECTOR
F2A218 INLET BARRIER FILTER C/A
SEE DETAIL M
LOCATION 6
USE EXISTING HARDWARE
INSTALL:
NAS1802-3-7 SCREW
NAS1149D0332J WASHER
AW001CB04H CLAMP
F2A218 INLET BARRIER FILTER C/A
NOT APPLY ON STOWAGE PROVISION
LOCATION 5
INSTALL:
MS21043-3 NUT
NAS443DD3-26N SPACER
NAS1149D0332J WASHER
MS20615-4M RIVET
AW001CB04H CLAMP
F2A218 INLET BARRIER FILTER C/A
LOCATION 4
USE EXISTING HARDWARE
INSTALL:
AW001CB04H CLAMP
F2A218 INLET BARRIER FILTER C/A
LOCATION 2 AND 3
USE EXISTING HARDWARE
INSTALL:
AW001CB04H CLAMP (2 OFF)
F2A218 INLET BARRIER FILTER C/A
A582A32 META-ARAMID FIBRE (NOMEX)
NAS813-14 PLUG PROTECTIVE
900004953 TIE STRAP
INSERT THE CONNECTOR ASSEMBLY INTO THE NAS 813 PROTECTIVE PLUG.
COVER WITH THE NOMEX FIBRE SLEEVE AND USE THE CABLE STRAPS
TO TIE UP SLEEVE FIRMLY TO THE CONNECTOR CABLING.
USE CABLE STRAPS TO FIX THE CONNECTOR ASSY TO THE CABLE LOOM.
DETAIL M
FOR CLARITY STRUCTURE AND
SYSTEM ARE PARTLY OMITTED
SPACER
RIVET
BOLT HEART
RIVET
WASHER
NUT
CLAMP
USE EXISTING HARDWARE
BACKSHEEL
WIRE
S1125 ADHESIVE
(cod.AGUSTA 500218739)
CONNECTOR
A574A01-01 BOOT
M23053/5-106-0
TUBING HEATSHRINKABLE
(LENGTH 150 mm)
LOCATION NUMBER
PART. NUMBER
STA
BL
WL
ORIENTATION
5
A364A3
7110
280
3210
90°
VIEW "J" LOOKING UPPER DECK
LH SIDE FROM STA 6815 TO 7381
FOR CLARITY STRUCTURE AND
SYSTEM ARE PARTLY OMITTED
P601 CONNECTOR
F2A218 INLET BARRIER FILTER C/A
FOR A STOWAGE PROVISION
SEE VIEW "L"
FOR CONTINUATION SEE FIGURE 11
STA 6815.0 REF
STA 7381.0 REF

Figure 12

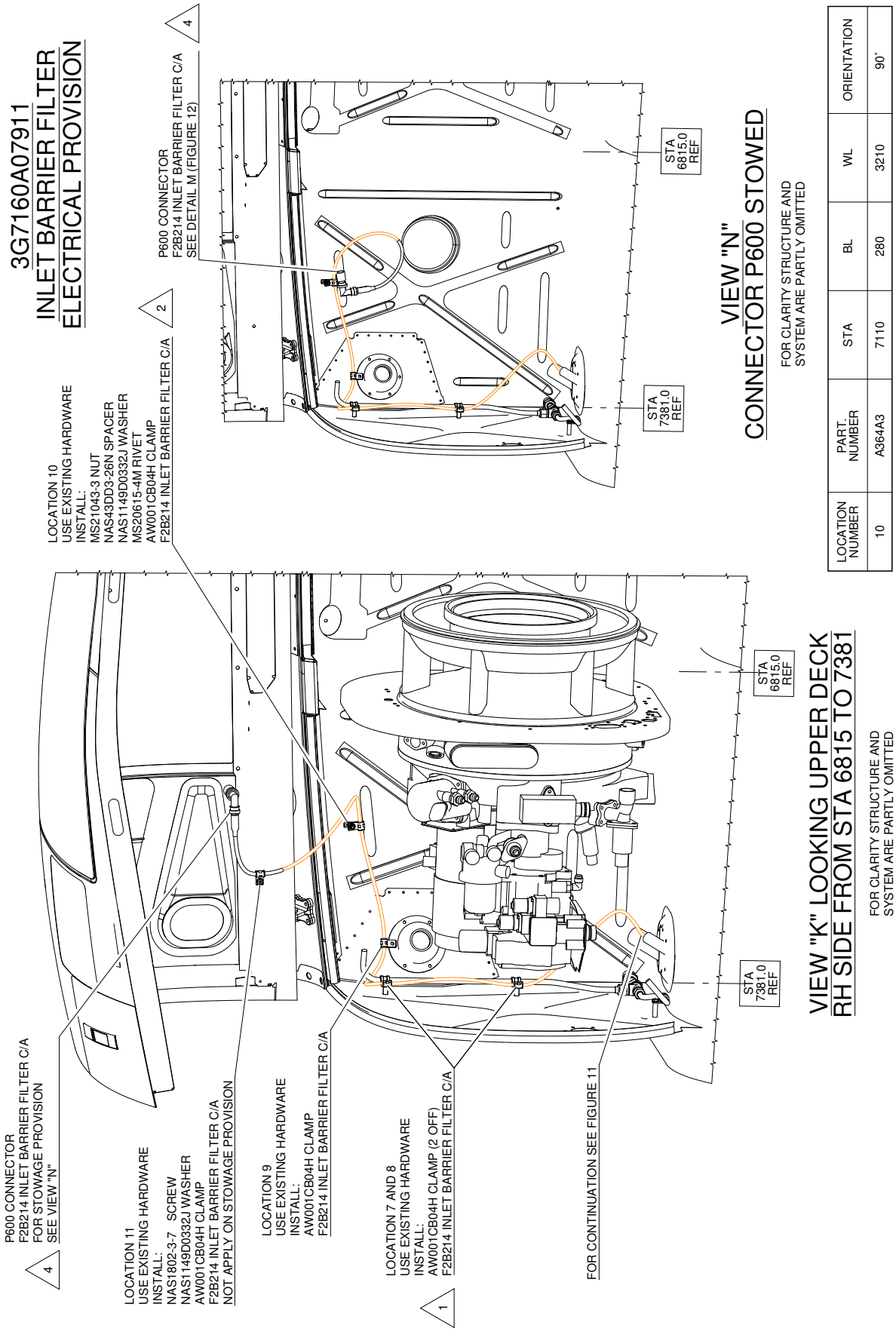
3G7160A07911
INLET BARRIER FILTER
ELECTRICAL PROVISION
VIEW "N"
CONNECTOR P600 STOWED
FOR CLARITY STRUCTURE AND
SYSTEM ARE PARTLY OMITTED
VIEW "K" LOOKING UPPER DECK
RH SIDE FROM STA 6815 TO 7381
FOR CLARITY STRUCTURE AND
SYSTEM ARE PARTLY OMITTED
P600 CONNECTOR
F2B214 INLET BARRIER FILTER C/A
SEE DETAIL M (FIGURE 12)
LOCATION 10
USE EXISTING HARDWARE
INSTALL:
MS21043-3 NUT
NAS43DD3-26N SPACER
NAS1149D0332J WASHER
MS20615-4M RIVET
AW001CB04H CLAMP
F2B214 INLET BARRIER FILTER C/A
P600 CONNECTOR
F2B214 INLET BARRIER FILTER C/A
FOR STOWAGE PROVISION
SEE VIEW "N"
LOCATION 11
USE EXISTING HARDWARE
INSTALL:
NAS1802-3-7 SCREW
NAS1149D0332J WASHER
AW001CB04H CLAMP
F2B214 INLET BARRIER FILTER C/A
NOT APPLY ON STOWAGE PROVISION
LOCATION 9
USE EXISTING HARDWARE
INSTALL:
AW001CB04H CLAMP
F2B214 INLET BARRIER FILTER C/A
LOCATION 7 AND 8
USE EXISTING HARDWARE
INSTALL:
AW001CB04H CLAMP (2 OFF)
F2B214 INLET BARRIER FILTER C/A
FOR CONTINUATION SEE FIGURE 11
STA 6815.0 REF
STA 7381.0 REF
STA 6815.0 REF
STA 7381.0 REF
LOCATION NUMBER | PART NUMBER | STA | BL | WL | ORIENTATION
10 | A364A3 | 7110 | 280 | 3210 | 90°

Figure 13

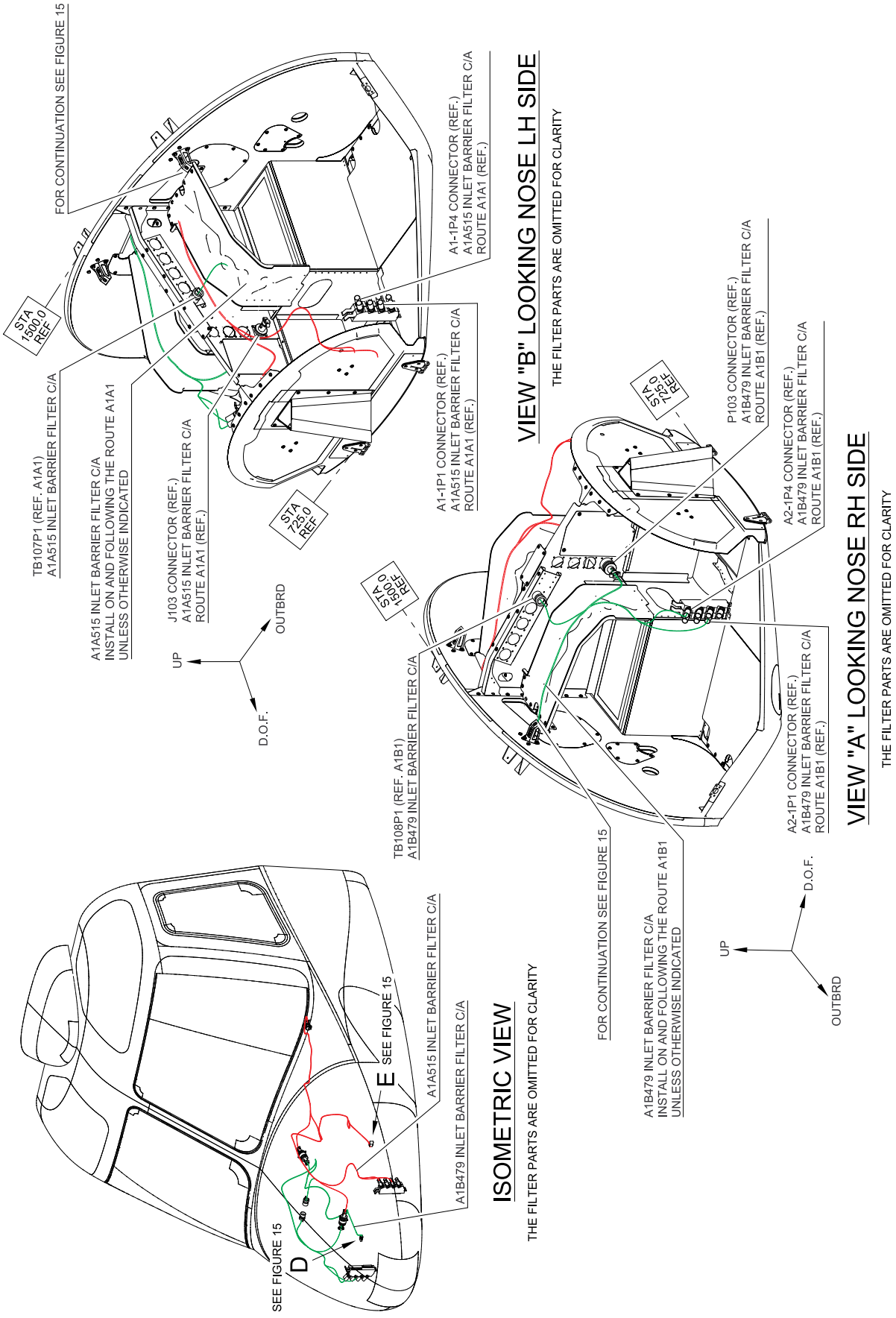
FOR CONTINUATION SEE FIGURE 15
STA 1500.0 REF
TB107P1 (REF. A1A1)
A1A515 INLET BARRIER FILTER C/A
A1A515 INLET BARRIER FILTER C/A
INSTALL ON AND FOLLOWING THE ROUTE A1A1
UNLESS OTHERWISE INDICATED
J103 CONNECTOR (REF.)
A1A515 INLET BARRIER FILTER C/A
ROUTE A1A1 (REF.)
STA 725.0 REF
A1-1P1 CONNECTOR (REF.)
A1A515 INLET BARRIER FILTER C/A
ROUTE A1A1 (REF.)
A1-1P4 CONNECTOR (REF.)
A1A515 INLET BARRIER FILTER C/A
ROUTE A1A1 (REF.)
VIEW "B" LOOKING NOSE LH SIDE
THE FILTER PARTS ARE OMITTED FOR CLARITY
UP
OUTBRD
D.O.F.
STA 1500.0 REF
TB108P1 (REF. A1B1)
A1B479 INLET BARRIER FILTER C/A
STA 725.0 REF
P103 CONNECTOR (REF.)
A1B479 INLET BARRIER FILTER C/A
ROUTE A1B1 (REF.)
A2-1P4 CONNECTOR (REF.)
A1B479 INLET BARRIER FILTER C/A
ROUTE A1B1 (REF.)
FOR CONTINUATION SEE FIGURE 15
A1B479 INLET BARRIER FILTER C/A
INSTALL ON AND FOLLOWING THE ROUTE A1B1
UNLESS OTHERWISE INDICATED
A2-1P1 CONNECTOR (REF.)
A1B479 INLET BARRIER FILTER C/A
ROUTE A1B1 (REF.)
VIEW "A" LOOKING NOSE RH SIDE
THE FILTER PARTS ARE OMITTED FOR CLARITY
UP
D.O.F.
OUTBRD
SEE FIGURE 15
D
E
SEE FIGURE 15
A1A515 INLET BARRIER FILTER C/A
A1B479 INLET BARRIER FILTER C/A
ISOMETRIC VIEW
THE FILTER PARTS ARE OMITTED FOR CLARITY

Figure 14

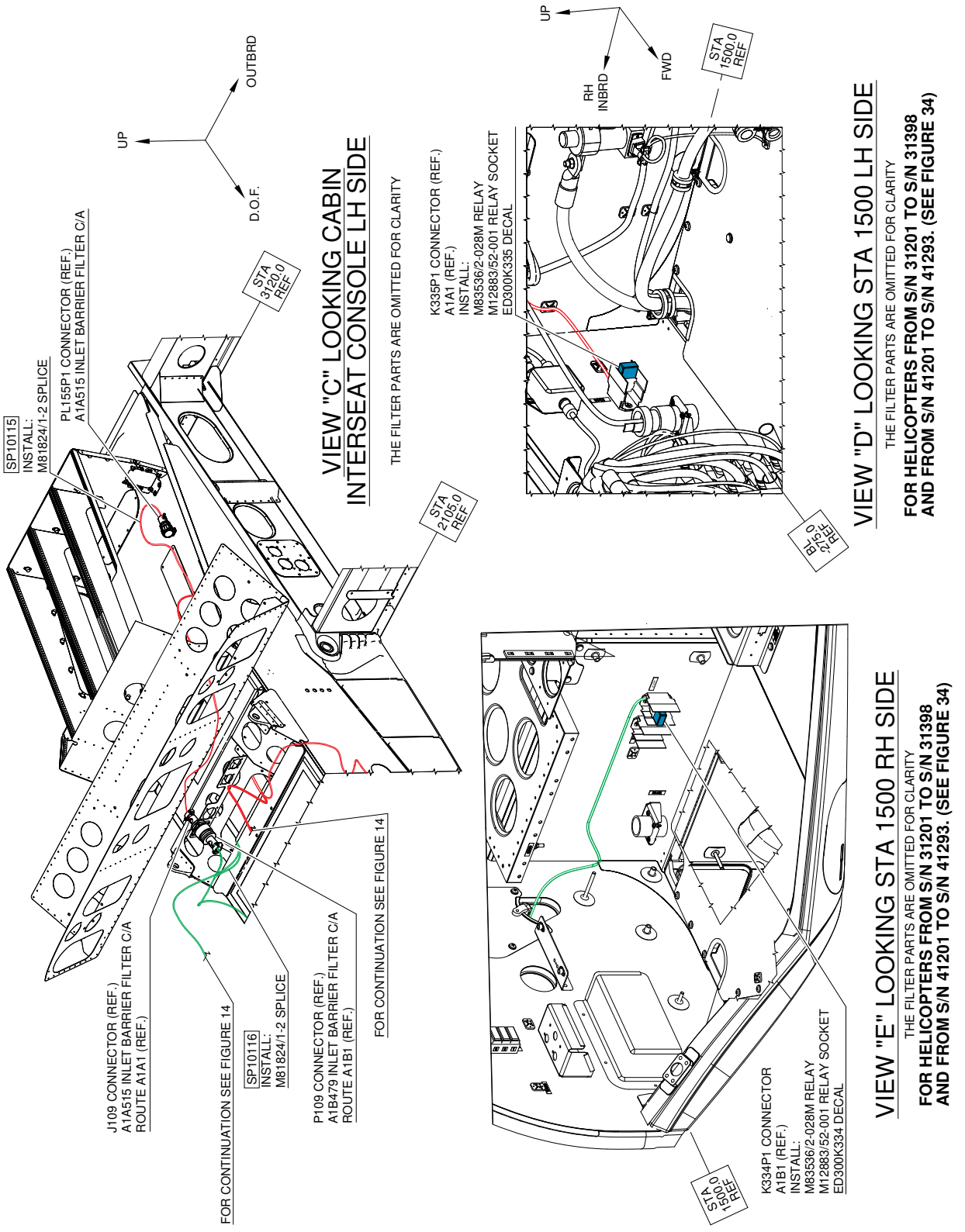
VIEW "C" LOOKING CABIN
INTERSEAT CONSOLE LH SIDE
THE FILTER PARTS ARE OMITTED FOR CLARITY
UP
OUTBRD
D.O.F.
STA 3120.0 REF
STA 2105.0 REF
SP10115
INSTALL:
M81824/1-2 SPLICE
PL155P1 CONNECTOR (REF.)
A1A515 INLET BARRIER FILTER C/A
J109 CONNECTOR (REF.)
A1A515 INLET BARRIER FILTER C/A
ROUTE A1A1 (REF.)
FOR CONTINUATION SEE FIGURE 14
SP10116
INSTALL:
M81824/1-2 SPLICE
P109 CONNECTOR (REF.)
A1B479 INLET BARRIER FILTER C/A
ROUTE A1B1 (REF.)
FOR CONTINUATION SEE FIGURE 14
K335P1 CONNECTOR (REF.)
A1A1 (REF.)
INSTALL:
M83536/2-028M RELAY
M12883/52-001 RELAY SOCKET
ED300K335 DECAL
VIEW "D" LOOKING STA 1500 LH SIDE
THE FILTER PARTS ARE OMITTED FOR CLARITY
FOR HELICOPTERS FROM S/N 31201 TO S/N 31398
AND FROM S/N 41201 TO S/N 41293. (SEE FIGURE 34)
UP
RH INBRD
FWD
STA 1500.0 REF
BL 57.0 REF
VIEW "E" LOOKING STA 1500 RH SIDE
THE FILTER PARTS ARE OMITTED FOR CLARITY
FOR HELICOPTERS FROM S/N 31201 TO S/N 31398
AND FROM S/N 41201 TO S/N 41293. (SEE FIGURE 34)
K334P1 CONNECTOR
A1B1 (REF.)
INSTALL:
M83536/2-028M RELAY
M12883/52-001 RELAY SOCKET
ED300K334 DECAL
STA 1500.0 REF

Figure 15

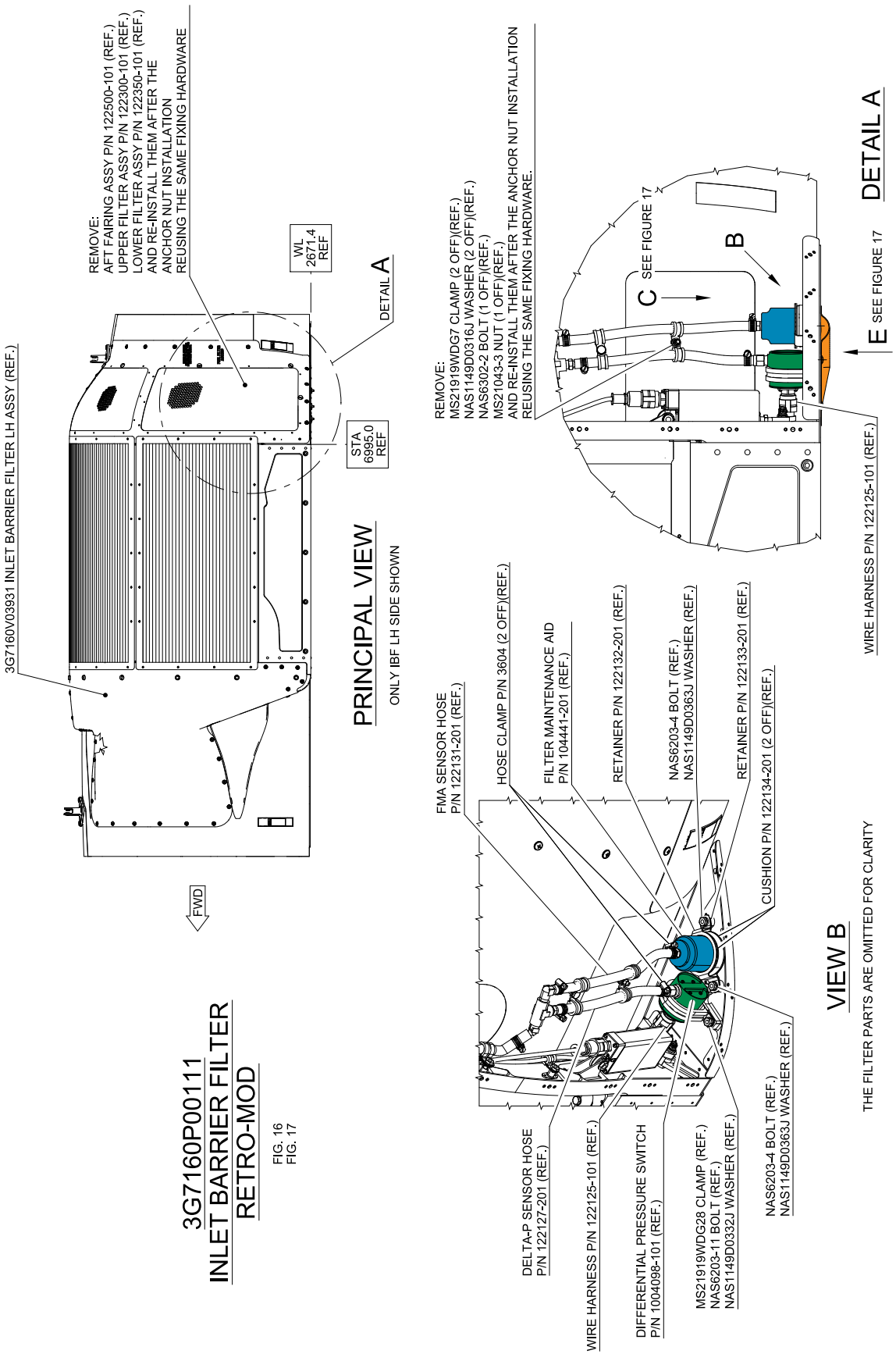
3G7160P00111
INLET BARRIER FILTER
RETRO-MOD
FIG. 16
FIG. 17
3G7160V03931 INLET BARRIER FILTER LH ASSY (REF.)
REMOVE:
AFT FAIRING ASSY P/N 122500-101 (REF.)
UPPER FILTER ASSY P/N 122300-101 (REF.)
LOWER FILTER ASSY P/N 122350-101 (REF.)
AND RE-INSTALL THEM AFTER THE
ANCHOR NUT INSTALLATION
REUSING THE SAME FIXING HARDWARE
WL 2671.4 REF
STA 6995.0 REF
DETAIL A
FWD
PRINCIPAL VIEW
ONLY IBF LH SIDE SHOWN
REMOVE:
MS21919WDG7 CLAMP (2 OFF)(REF.)
NAS1149D0316J WASHER (2 OFF)(REF.)
NAS6302-2 BOLT (1 OFF)(REF.)
MS21043-3 NUT (1 OFF)(REF.)
AND RE-INSTALL THEM AFTER THE ANCHOR NUT INSTALLATION
REUSING THE SAME FIXING HARDWARE.
C SEE FIGURE 17
B
E SEE FIGURE 17
DETAIL A
WIRE HARNESS P/N 122125-101 (REF.)
FMA SENSOR HOSE
P/N 122131-201 (REF.)
HOSE CLAMP P/N 3604 (2 OFF)(REF.)
FILTER MAINTENANCE AID
P/N 104441-201 (REF.)
RETAINER P/N 122132-201 (REF.)
NAS6203-4 BOLT (REF.)
NAS1149D0363J WASHER (REF.)
RETAINER P/N 122133-201 (REF.)
CUSHION P/N 122134-201 (2 OFF)(REF.)
DELTA-P SENSOR HOSE
P/N 122127-201 (REF.)
WIRE HARNESS P/N 122125-101 (REF.)
DIFFERENTIAL PRESSURE SWITCH
P/N 1004098-101 (REF.)
MS21919WDG28 CLAMP (REF.)
NAS6203-11 BOLT (REF.)
NAS1149D0332J WASHER (REF.)
NAS6203-4 BOLT (REF.)
NAS1149D0363J WASHER (REF.)
VIEW B
THE FILTER PARTS ARE OMITTED FOR CLARITY

Figure 16

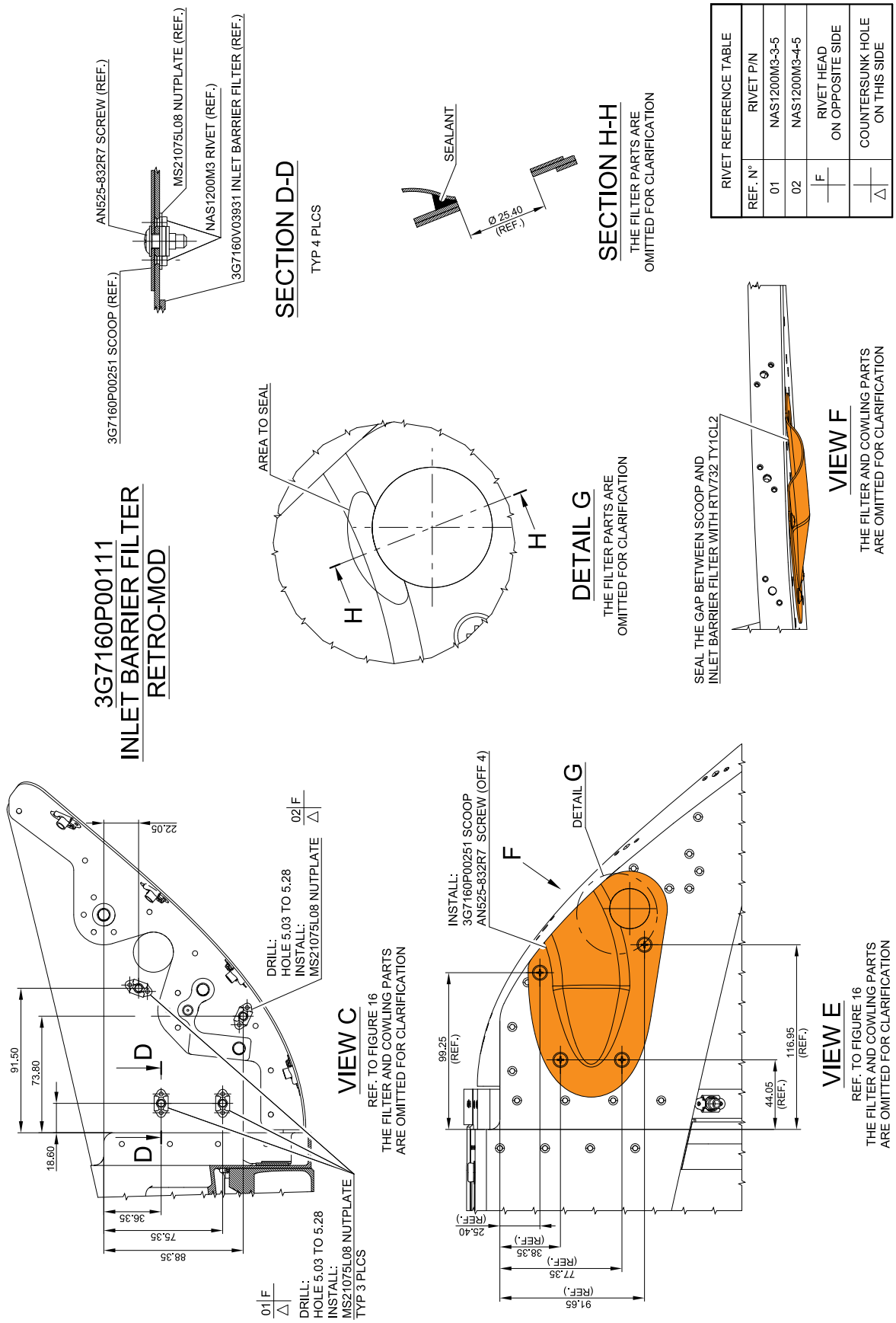
3G7160P00111
INLET BARRIER FILTER
RETRO-MOD
AN525-832R7 SCREW (REF.)
MS21075L08 NUTPLATE (REF.)
NAS1200M3 RIVET (REF.)
3G7160V03931 INLET BARRIER FILTER (REF.)
3G7160P00251 SCOOP (REF.)
SECTION D-D
TYP 4 PLCS
SEALANT
Ø 25.40 (REF.)
SECTION H-H
THE FILTER PARTS ARE OMITTED FOR CLARIFICATION
RIVET REFERENCE TABLE
REF. N°
RIVET P/N
01
NAS1200M3-3-5
02
NAS1200M3-4-5
F
RIVET HEAD ON OPPOSITE SIDE
COUNTERSUNK HOLE ON THIS SIDE
AREA TO SEAL
H
H
DETAIL G
THE FILTER PARTS ARE OMITTED FOR CLARIFICATION
SEAL THE GAP BETWEEN SCOOP AND INLET BARRIER FILTER WITH RTV732 TY1CL2
VIEW F
THE FILTER AND COWLING PARTS ARE OMITTED FOR CLARIFICATION
22.05
91.50
73.80
18.60
D
D
36.35
75.35
88.35
DRILL: HOLE 5.03 TO 5.28
INSTALL: MS21075L08 NUTPLATE
02 F
DRILL: HOLE 5.03 TO 5.28
INSTALL: MS21075L08 NUTPLATE
TYP 3 PLCS
01 F
VIEW C
REF. TO FIGURE 16
THE FILTER AND COWLING PARTS ARE OMITTED FOR CLARIFICATION
INSTALL: 3G7160P00251 SCOOP AN525-832R7 SCREW (OFF 4)
F
DETAIL G
99.25 (REF.)
116.95 (REF.)
44.05 (REF.)
25.40 (REF.)
38.35 (REF.)
77.35 (REF.)
91.65 (REF.)
VIEW E
REF. TO FIGURE 16
THE FILTER AND COWLING PARTS ARE OMITTED FOR CLARIFICATION

Figure 17

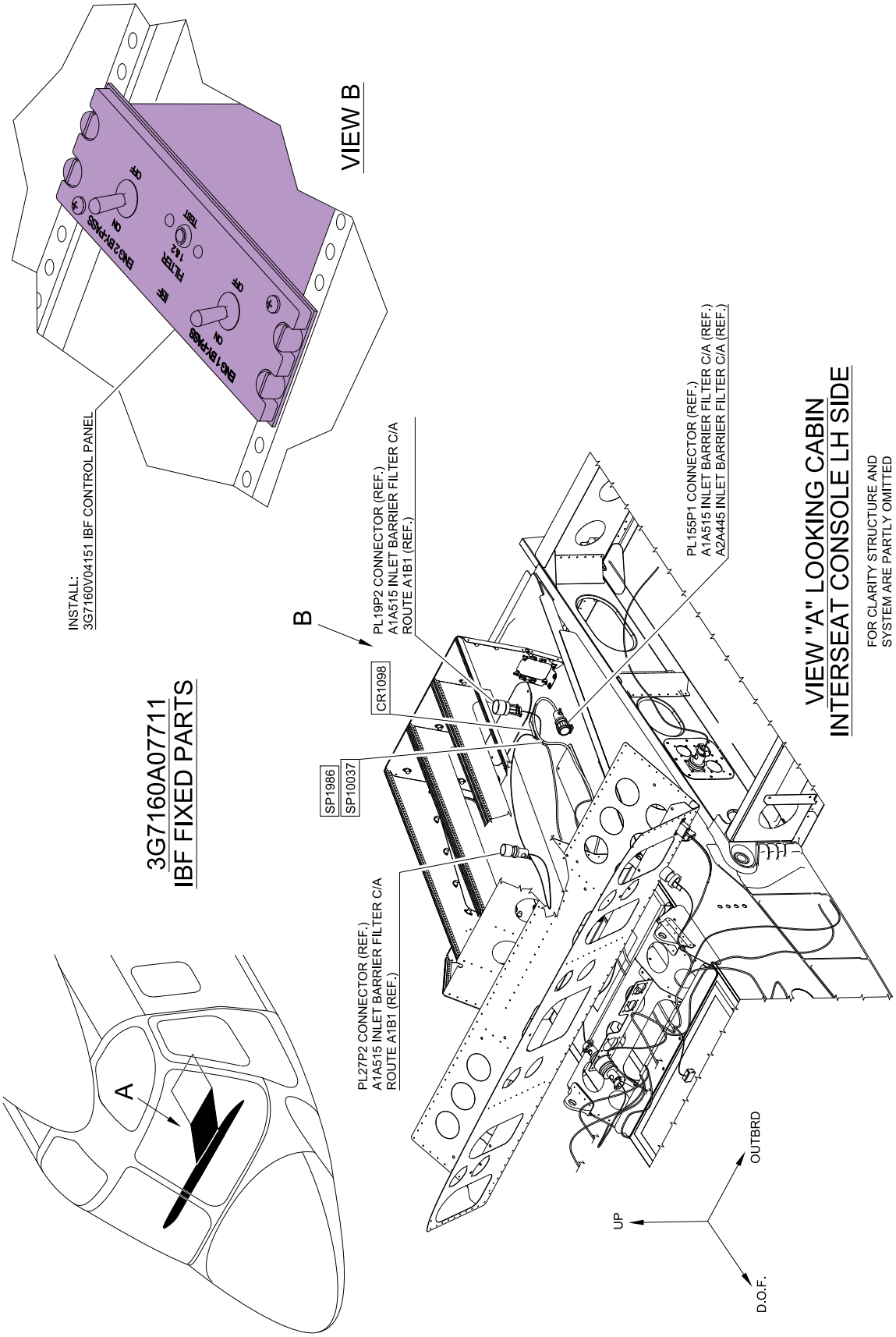
3G7160A07711
IBF FIXED PARTS
VIEW B
INSTALL:
3G7160V04151 IBF CONTROL PANEL
VIEW "A" LOOKING CABIN
INTERSEAT CONSOLE LH SIDE
FOR CLARITY STRUCTURE AND
SYSTEM ARE PARTLY OMITTED
PL19P2 CONNECTOR (REF.)
A1A515 INLET BARRIER FILTER C/A
ROUTE A1B1 (REF.)
PL155P1 CONNECTOR (REF.)
A1A515 INLET BARRIER FILTER C/A (REF.)
A2A445 INLET BARRIER FILTER C/A (REF.)
PL27P2 CONNECTOR (REF.)
A1A515 INLET BARRIER FILTER C/A
ROUTE A1B1 (REF.)
CR1098
SP1986
SP10037
A
B
OUTBRD
UP
D.O.F.

Figure 18

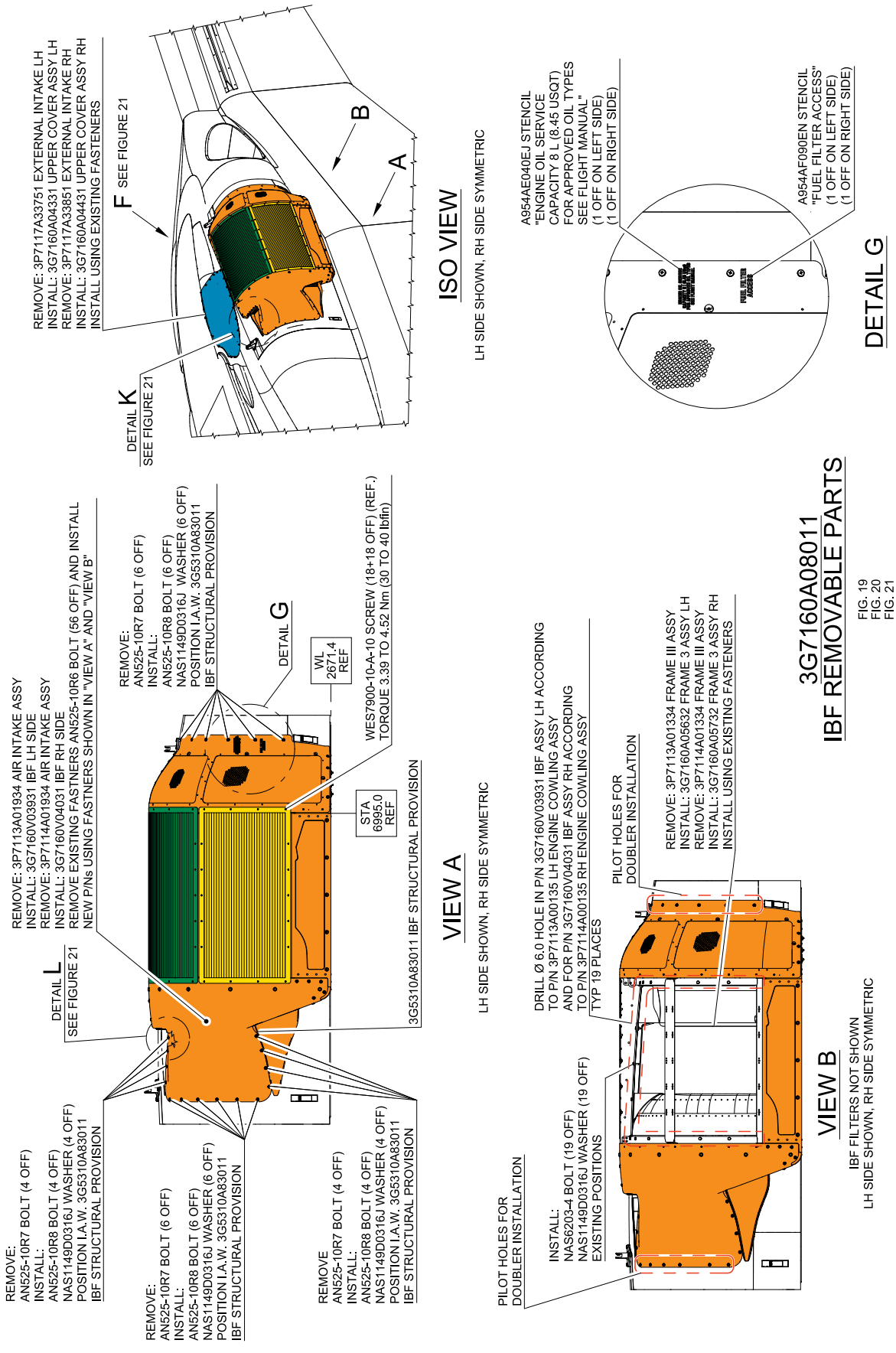
REMOVE: 3P7117A33751 EXTERNAL INTAKE LH
INSTALL: 3G7160A04331 UPPER COVER ASSY LH
REMOVE: 3P7117A33851 EXTERNAL INTAKE RH
INSTALL: 3G7160A04431 UPPER COVER ASSY RH
INSTALL USING EXISTING FASTENERS
F SEE FIGURE 21
DETAIL K
SEE FIGURE 21
B
A
ISO VIEW
LH SIDE SHOWN, RH SIDE SYMMETRIC
A954AE040EJ STENCIL
"ENGINE OIL SERVICE
CAPACITY 8 L (8.45 USQT)
FOR APPROVED OIL TYPES
SEE FLIGHT MANUAL"
(1 OFF ON LEFT SIDE)
(1 OFF ON RIGHT SIDE)
A954AF090EN STENCIL
"FUEL FILTER ACCESS"
(1 OFF ON LEFT SIDE)
(1 OFF ON RIGHT SIDE)
DETAIL G
REMOVE: 3P7113A01934 AIR INTAKE ASSY
INSTALL: 3G7160V03931 IBF LH SIDE
REMOVE: 3P7114A01934 AIR INTAKE ASSY
INSTALL: 3G7160V04031 IBF RH SIDE
REMOVE EXISTING FASTNERS AN525-10R6 BOLT (56 OFF) AND INSTALL
NEW P/Ns USING FASTNERS SHOWN IN "VIEW A" AND "VIEW B"
DETAIL L
SEE FIGURE 21
REMOVE:
AN525-10R7 BOLT (4 OFF)
INSTALL:
AN525-10R8 BOLT (4 OFF)
NAS1149D0316J WASHER (4 OFF)
POSITION I.A.W. 3G5310A83011
IBF STRUCTURAL PROVISION
REMOVE:
AN525-10R7 BOLT (6 OFF)
INSTALL:
AN525-10R8 BOLT (6 OFF)
NAS1149D0316J WASHER (6 OFF)
POSITION I.A.W. 3G5310A83011
IBF STRUCTURAL PROVISION
REMOVE:
AN525-10R7 BOLT (6 OFF)
INSTALL:
AN525-10R8 BOLT (6 OFF)
NAS1149D0316J WASHER (6 OFF)
POSITION I.A.W. 3G5310A83011
IBF STRUCTURAL PROVISION
DETAIL G
WL
2671.4
REF
STA
6995.0
REF
WES7900-10-A-10 SCREW (18+18 OFF) (REF.)
TORQUE 3.39 TO 4.52 Nm (30 TO 40 lbfin)
REMOVE
AN525-10R7 BOLT (4 OFF)
INSTALL:
AN525-10R8 BOLT (4 OFF)
NAS1149D0316J WASHER (4 OFF)
POSITION I.A.W. 3G5310A83011
IBF STRUCTURAL PROVISION
3G5310A83011 IBF STRUCTURAL PROVISION
VIEW A
LH SIDE SHOWN, RH SIDE SYMMETRIC
DRILL Ø 6.0 HOLE IN P/N 3G7160V03931 IBF ASSY LH ACCORDING
TO P/N 3P7113A00135 LH ENGINE COWLING ASSY
AND FOR P/N 3G7160V04031 IBF ASSY RH ACCORDING
TO P/N 3P7114A00135 RH ENGINE COWLING ASSY
TYP 19 PLACES
PILOT HOLES FOR
DOUBLER INSTALLATION
REMOVE: 3P7113A01334 FRAME III ASSY
INSTALL: 3G7160A05632 FRAME 3 ASSY LH
REMOVE: 3P7114A01334 FRAME III ASSY
INSTALL: 3G7160A05732 FRAME 3 ASSY RH
INSTALL USING EXISTING FASTENERS
PILOT HOLES FOR
DOUBLER INSTALLATION
INSTALL:
NAS6203-4 BOLT (19 OFF)
NAS1149D0316J WASHER (19 OFF)
EXISTING POSITIONS
VIEW B
IBF FILTERS NOT SHOWN
LH SIDE SHOWN, RH SIDE SYMMETRIC
3G7160A08011
IBF REMOVABLE PARTS
FIG. 19
FIG. 20
FIG. 21

Figure 19

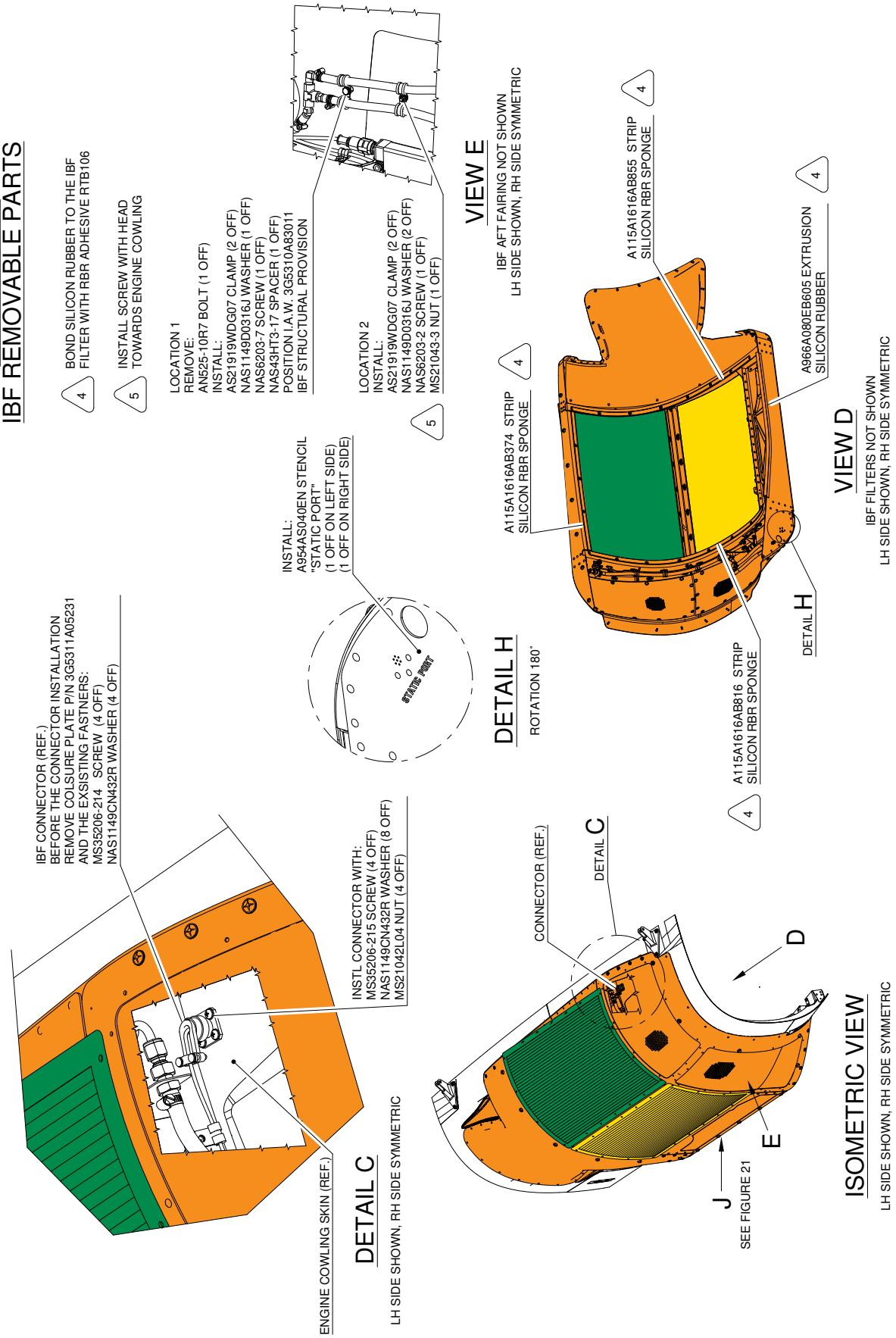
3G7160A08011
IBF REMOVABLE PARTS
4 BOND SILICON RUBBER TO THE IBF FILTER WITH RBR ADHESIVE RTB106
5 INSTALL SCREW WITH HEAD TOWARDS ENGINE COWLING
LOCATION 1
REMOVE:
AN525-10R7 BOLT (1 OFF)
INSTALL:
AS21919WDG07 CLAMP (2 OFF)
NAS1149D0316J WASHER (1 OFF)
NAS6203-7 SCREW (1 OFF)
NAS43HT3-17 SPACER (1 OFF)
POSITION I.A.W. 3G5310A83011
IBF STRUCTURAL PROVISION
LOCATION 2
INSTALL:
AS21919WDG07 CLAMP (2 OFF)
NAS1149D0316J WASHER (2 OFF)
NAS6203-2 SCREW (1 OFF)
MS21043-3 NUT (1 OFF)
VIEW E
IBF AFT FAIRING NOT SHOWN
LH SIDE SHOWN, RH SIDE SYMMETRIC
A115A1616AB374 STRIP SILICON RBR SPONGE
A115A1616AB855 STRIP SILICON RBR SPONGE
A966A080EB605 EXTRUSION SILICON RUBBER
VIEW D
IBF FILTERS NOT SHOWN
LH SIDE SHOWN, RH SIDE SYMMETRIC
INSTALL:
A954AS040EN STENCIL
"STATIC PORT"
(1 OFF ON LEFT SIDE)
(1 OFF ON RIGHT SIDE)
STATIC PORT
DETAIL H
ROTATION 180°
DETAIL H
A115A1616AB816 STRIP SILICON RBR SPONGE
IBF CONNECTOR (REF.)
BEFORE THE CONNECTOR INSTALLATION
REMOVE COLSURE PLATE P/N 3G5311A05231
AND THE EXSISTING FASTNERS:
MS35206-214 SCREW (4 OFF)
NAS1149CN432R WASHER (4 OFF)
INSTL CONNECTOR WITH:
MS35206-215 SCREW (4 OFF)
NAS1149CN432R WASHER (8 OFF)
MS21042L04 NUT (4 OFF)
ENGINE COWLING SKIN (REF.)
DETAIL C
LH SIDE SHOWN, RH SIDE SYMMETRIC
CONNECTOR (REF.)
DETAIL C
D
E
J
SEE FIGURE 21
ISOMETRIC VIEW
LH SIDE SHOWN, RH SIDE SYMMETRIC

Figure 20

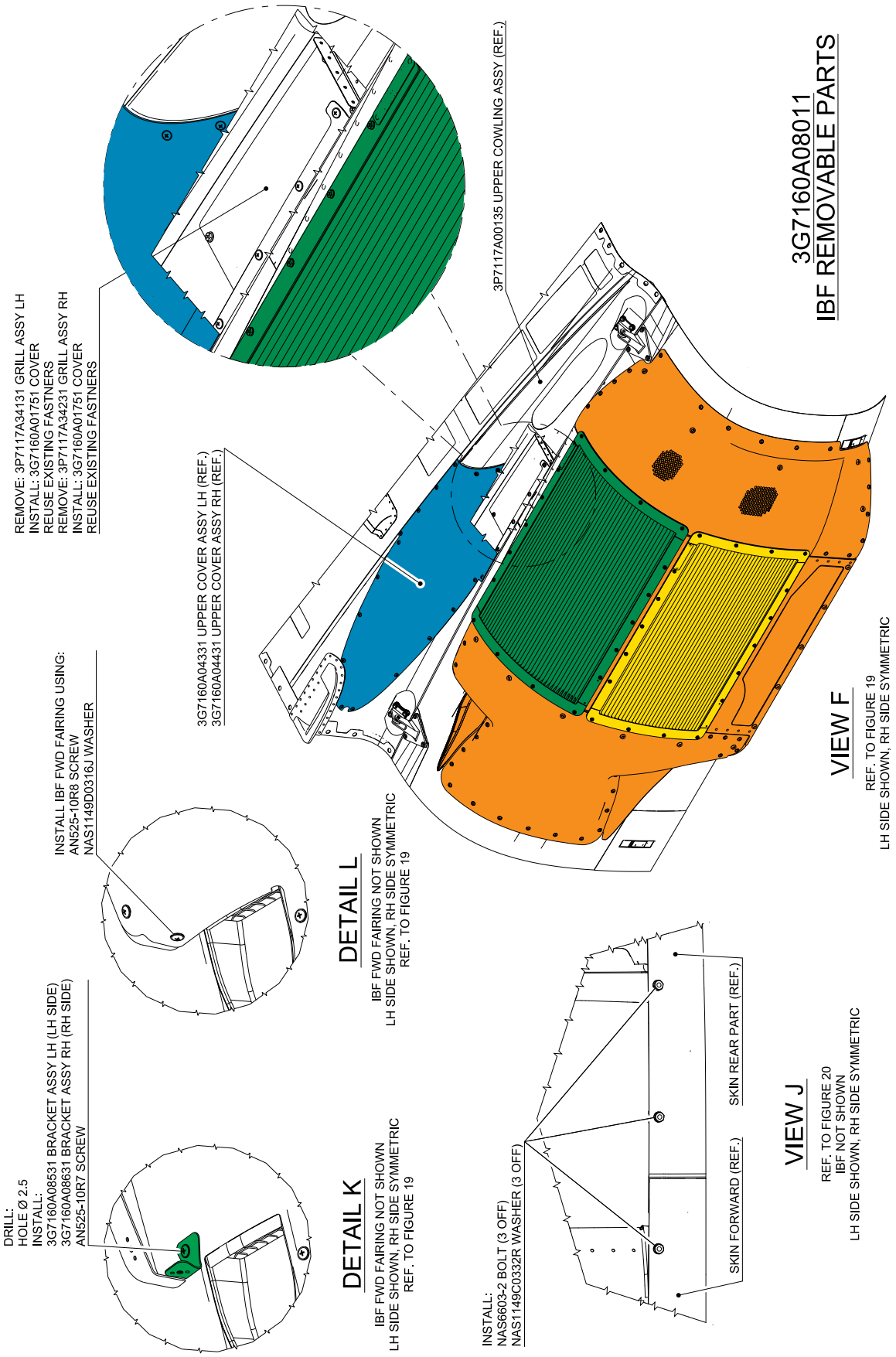
3G7160A08011
IBF REMOVABLE PARTS
REMOVE: 3P7117A34131 GRILL ASSY LH
INSTALL: 3G7160A01751 COVER
REUSE EXISTING FASTNERS
REMOVE: 3P7117A34231 GRILL ASSY RH
INSTALL: 3G7160A01751 COVER
REUSE EXISTING FASTNERS
3P7117A00135 UPPER COWLING ASSY (REF.)
3G7160A04331 UPPER COVER ASSY LH (REF.)
3G7160A04431 UPPER COVER ASSY RH (REF.)
VIEW F
REF. TO FIGURE 19
LH SIDE SHOWN, RH SIDE SYMMETRIC
INSTALL IBF FWD FAIRING USING:
AN525-10R8 SCREW
NAS1149D0316J WASHER
DETAIL L
IBF FWD FAIRING NOT SHOWN
LH SIDE SHOWN, RH SIDE SYMMETRIC
REF. TO FIGURE 19
DRILL:
HOLE Ø 2.5
INSTALL:
3G7160A08531 BRACKET ASSY LH (LH SIDE)
3G7160A08631 BRACKET ASSY RH (RH SIDE)
AN525-10R7 SCREW
DETAIL K
IBF FWD FAIRING NOT SHOWN
LH SIDE SHOWN, RH SIDE SYMMETRIC
REF. TO FIGURE 19
INSTALL:
NAS6603-2 BOLT (3 OFF)
NAS1149C0332R WASHER (3 OFF)
SKIN FORWARD (REF.)
SKIN REAR PART (REF.)
VIEW J
REF. TO FIGURE 20
IBF NOT SHOWN
LH SIDE SHOWN, RH SIDE SYMMETRIC

Figure 21

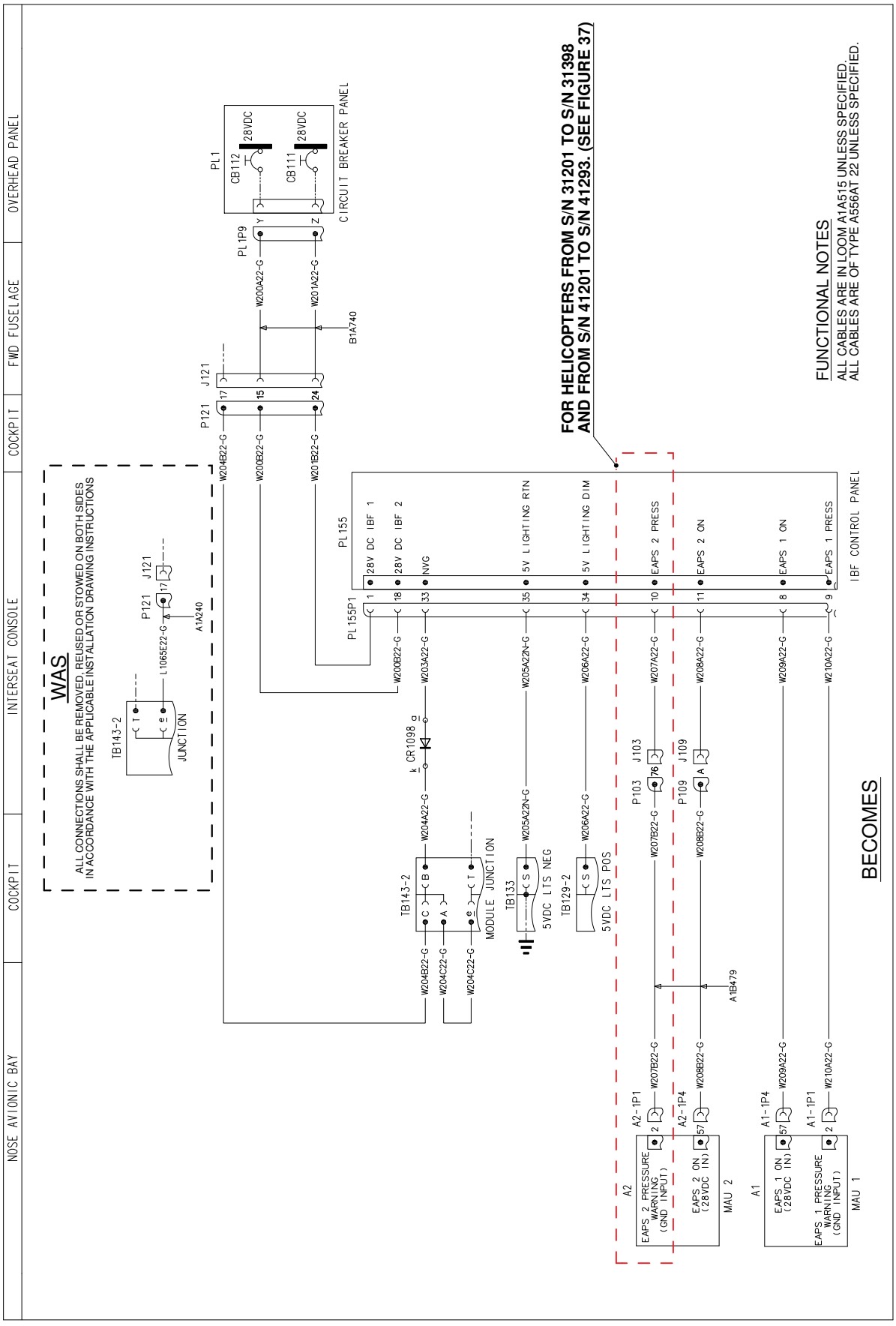
NOSE AVIONIC BAY
COCKPIT
INTERSEAT CONSOLE
COCKPIT
FWD FUSELAGE
OVERHEAD PANEL
WAS
ALL CONNECTIONS SHALL BE REMOVED, REUSED OR STOWED ON BOTH SIDES IN ACCORDANCE WITH THE APPLICABLE INSTALLATION DRAWING INSTRUCTIONS
TB143-2
JUNCTION
P121
J121
A1A240
L1065E22-G
PL1
CB112
CB111
28VDC
CIRCUIT BREAKER PANEL
PL1P9
W200A22-G
W201A22-G
B1A740
W204B22-G
W200B22-G
W201B22-G
FOR HELICOPTERS FROM S/N 31201 TO S/N 31398
AND FROM S/N 41201 TO S/N 41293. (SEE FIGURE 37)
PL155
PL155P1
28V DC IBF 1
28V DC IBF 2
NVG
5V LIGHTING RTN
5V LIGHTING DIM
EAPS 2 PRESS
EAPS 2 ON
EAPS 1 ON
EAPS 1 PRESS
IBF CONTROL PANEL
W200B22-G
W203A22-G
W205A22N-G
W206A22-G
W207A22-G
W208A22-G
W209A22-G
W210A22-G
CR1098
TB143-2
MODULE JUNCTION
W204A22-G
W204C22-G
TB133
5VDC LTS NEG
TB129-2
5VDC LTS POS
P103
J103
P109
J109
W207B22-G
W208B22-G
A1B479
A2
A2-1P1
A2-1P4
EAPS 2 PRESSURE WARNING (GND INPUT)
EAPS 2 ON (28VDC IN)
MAU 2
A1
A1-1P4
A1-1P1
EAPS 1 ON (28VDC IN)
EAPS 1 PRESSURE WARNING (GND INPUT)
MAU 1
FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM A1A515 UNLESS SPECIFIED.
ALL CABLES ARE OF TYPE A556AT 22 UNLESS SPECIFIED.
BECOMES

Figure 22

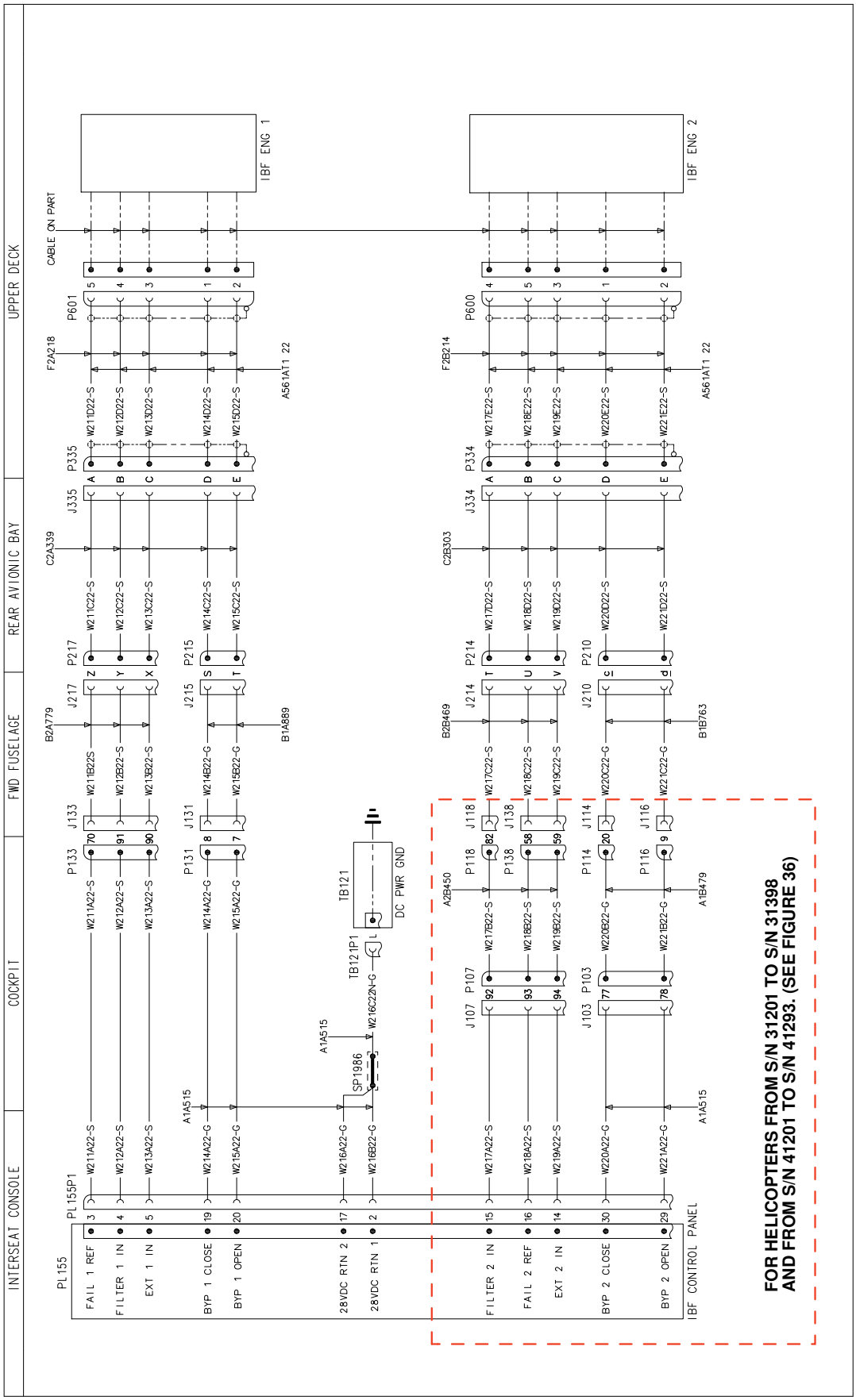
INTERSEAT CONSOLE
COCKPIT
FWD FUSELAGE
REAR AVIONIC BAY
UPPER DECK
IBF ENG 1
IBF ENG 2
CABLE ON PART
IBF CONTROL PANEL
DC PWR GND
FOR HELICOPTERS FROM S/N 31201 TO S/N 31398
AND FROM S/N 41201 TO S/N 41293. (SEE FIGURE 36)
FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM A2A445 UNLESS SPECIFIED.
ALL CABLES ARE OF TYPE A556AT 22 UNLESS SPECIFIED.

Figure 23

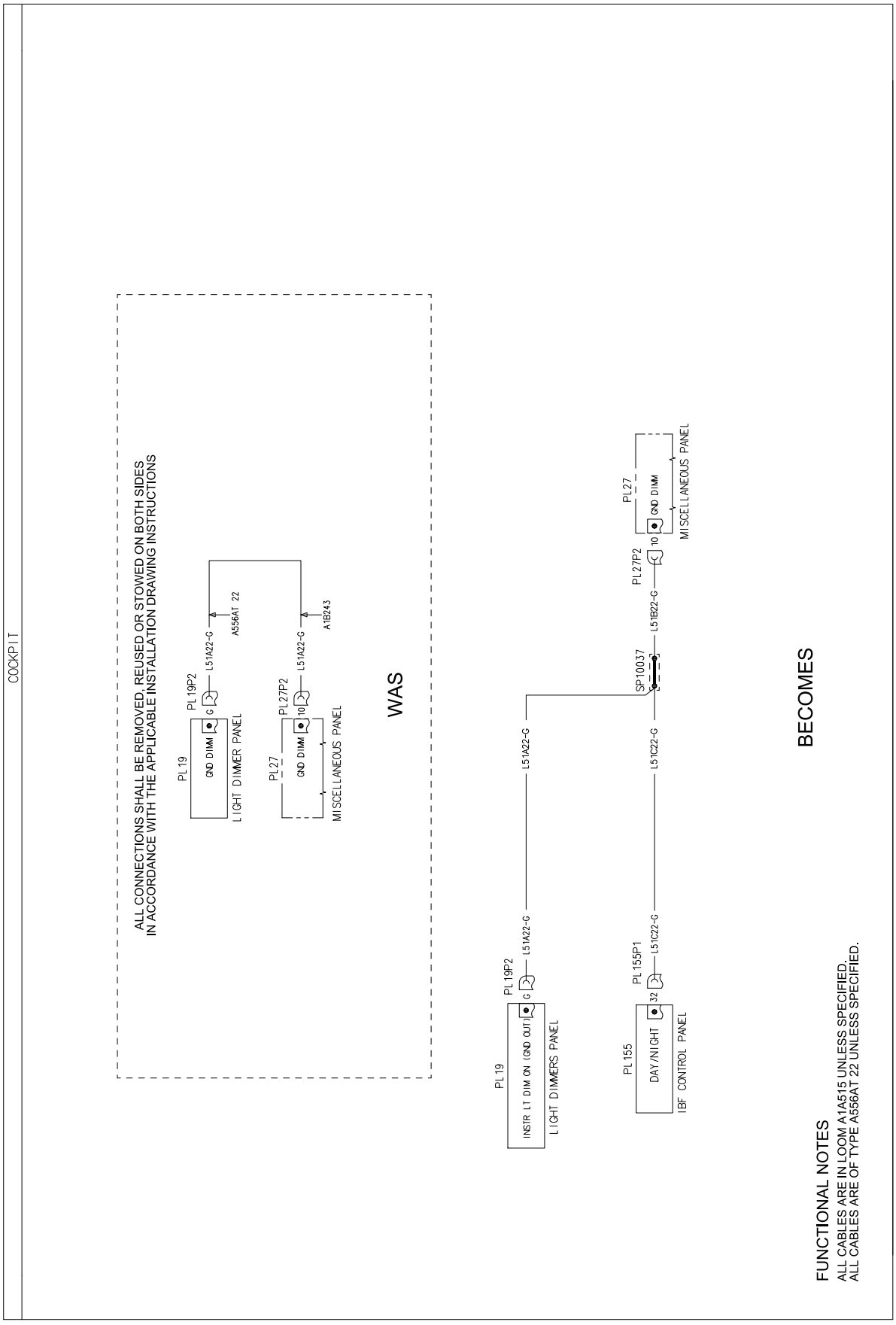
COCKPIT
ALL CONNECTIONS SHALL BE REMOVED, REUSED OR STOWED ON BOTH SIDES
IN ACCORDANCE WITH THE APPLICABLE INSTALLATION DRAWING INSTRUCTIONS
PL 19
GND DIMM
PL 19P2
G
L51A22-G
LIGHT DIMMER PANEL
A556AT 22
PL 27
GND DIMM
PL 27P2
10
L51A22-G
A1B243
MISCELLANEOUS PANEL
WAS
PL 19
INSTR LT DIM ON (GND OUT)
PL 19P2
G
L51A22-G
LIGHT DIMMERS PANEL
PL 155
DAY/NIGHT
PL 155P1
32
L51C22-G
IBF CONTROL PANEL
SP10037
L51C22-G
L51A22-G
PL27P2
10
L51B22-G
PL 27
GND DIMM
MISCELLANEOUS PANEL
BECOMES
FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM A1A515 UNLESS SPECIFIED.
ALL CABLES ARE OF TYPE A556AT 22 UNLESS SPECIFIED.

Figure 24

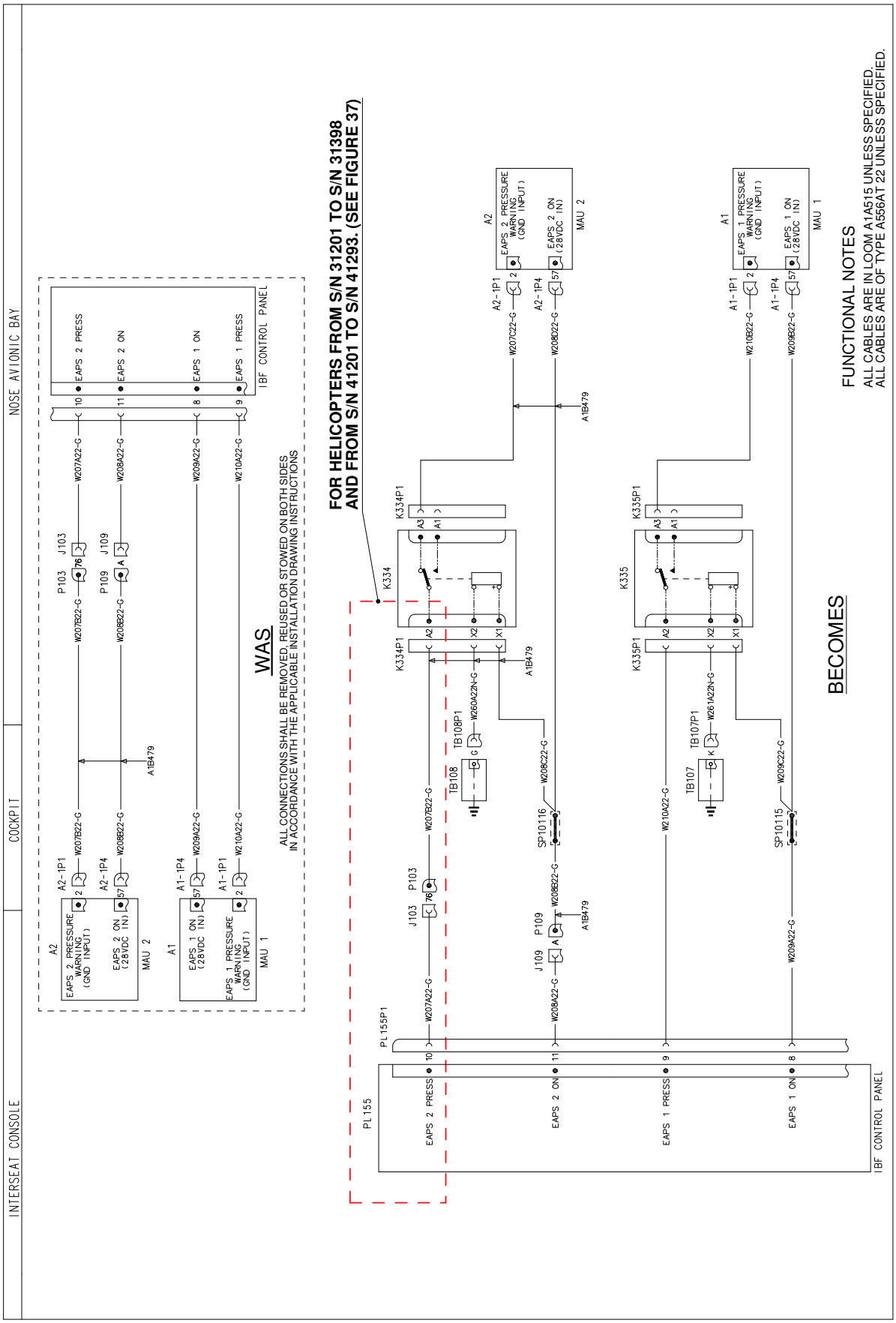
INTERSEAT CONSOLE
COCKPIT
NOSE AVIONIC BAY
WAS
ALL CONNECTIONS SHALL BE REMOVED, REUSED OR STOWED ON BOTH SIDES IN ACCORDANCE WITH THE APPLICABLE INSTALLATION DRAWING INSTRUCTIONS
IBF CONTROL PANEL
EAPS 2 PRESS
EAPS 2 ON
EAPS 1 ON
EAPS 1 PRESS
P103
J103
P109
J109
W207A22-G
W208A22-G
W209A22-G
W210A22-G
W207B22-G
W208B22-G
A1B479
A2
EAPS 2 PRESSURE WARNING (GND INPUT)
EAPS 2 ON (28VDC IN)
MAU 2
A1
EAPS 1 ON (28VDC IN)
EAPS 1 PRESSURE WARNING (GND INPUT)
MAU 1
A2-1P1
A2-1P4
A1-1P4
A1-1P1
FOR HELICOPTERS FROM S/N 31201 TO S/N 31398
AND FROM S/N 41201 TO S/N 41293. (SEE FIGURE 37)
BECOMES
FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM A1A515 UNLESS SPECIFIED.
ALL CABLES ARE OF TYPE A556AT 22 UNLESS SPECIFIED.
K334
K334P1
K335
K335P1
TB108
TB108P1
TB107
TB107P1
W260A22N-G
W261A22N-G
SP10116
SP10115
PL155
PL155P1
W207C22-G
W208C22-G
W210B22-G
W209B22-G

Figure 25

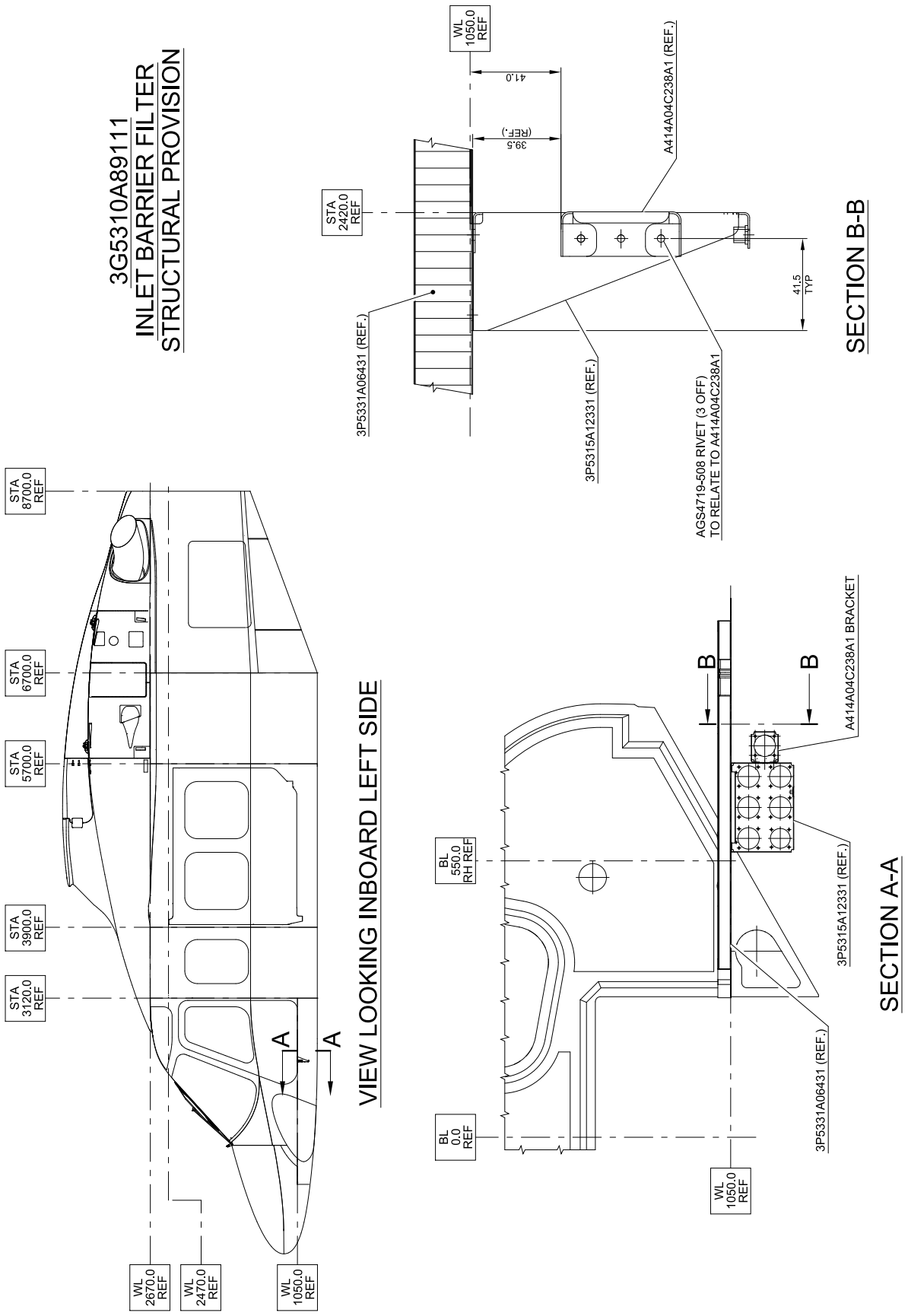
3G5310A89111
INLET BARRIER FILTER
STRUCTURAL PROVISION
SECTION B-B
WL 1050.0 REF
41.0
39.5 (REF.)
A414A04C238A1 (REF.)
STA 2420.0 REF
41.5 TYP
3P5331A06431 (REF.)
3P5315A12331 (REF.)
AGS4719-508 RIVET (3 OFF)
TO RELATE TO A414A04C238A1
VIEW LOOKING INBOARD LEFT SIDE
STA 8700.0 REF
STA 6700.0 REF
STA 5700.0 REF
STA 3900.0 REF
STA 3120.0 REF
A
A
WL 2670.0 REF
WL 2470.0 REF
WL 1050.0 REF
SECTION A-A
B
B
A414A04C238A1 BRACKET
BL 550.0 RH REF
BL 0.0 REF
3P5315A12331 (REF.)
3P5331A06431 (REF.)
WL 1050.0 REF

Figure 26

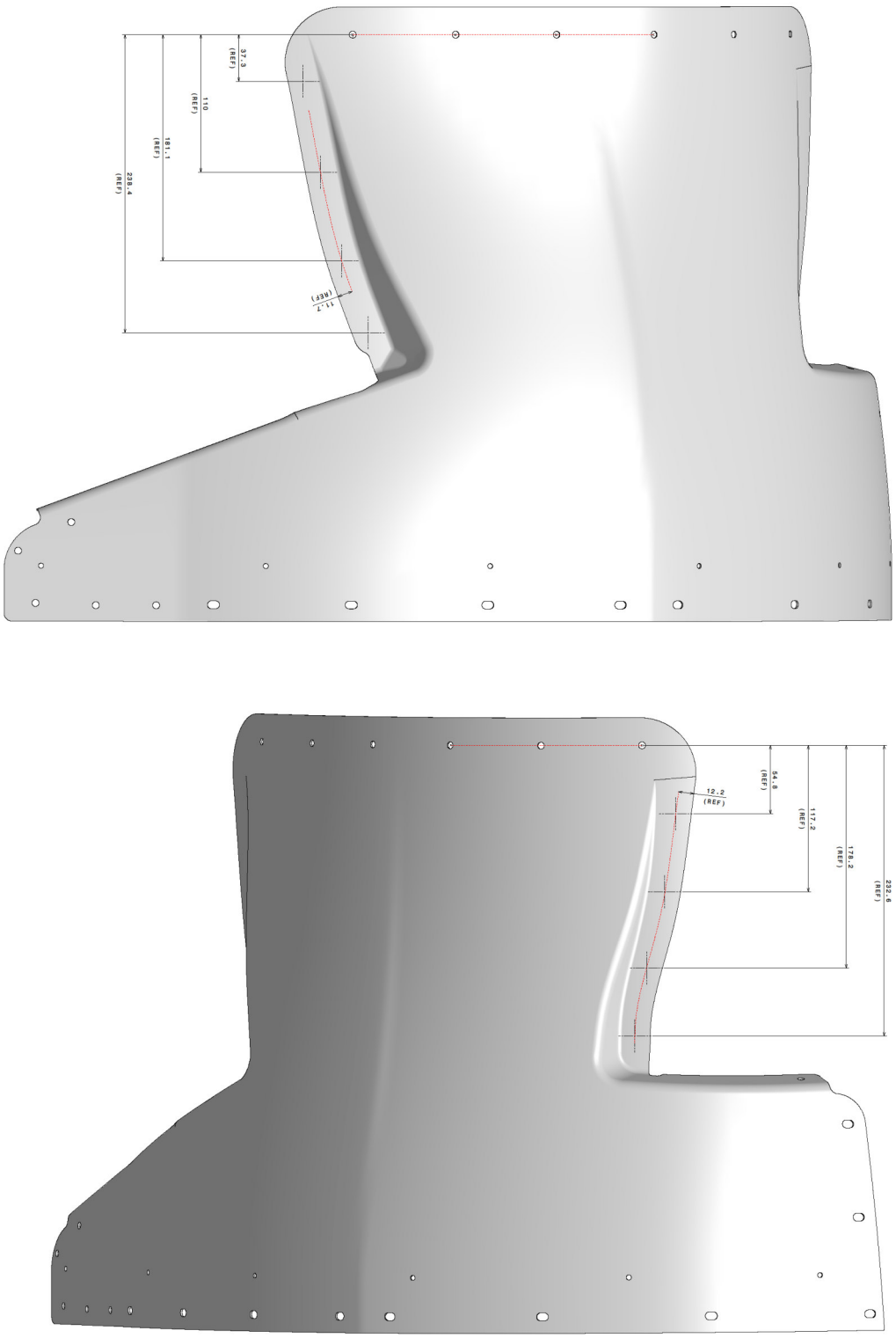
37.3
(REF)
110
(REF)
181.1
(REF)
238.4
(REF)
11.7
(REF)
12.2
(REF)
54.8
(REF)
117.2
(REF)
178.2
(REF)
232.6
(REF)

Figure 27

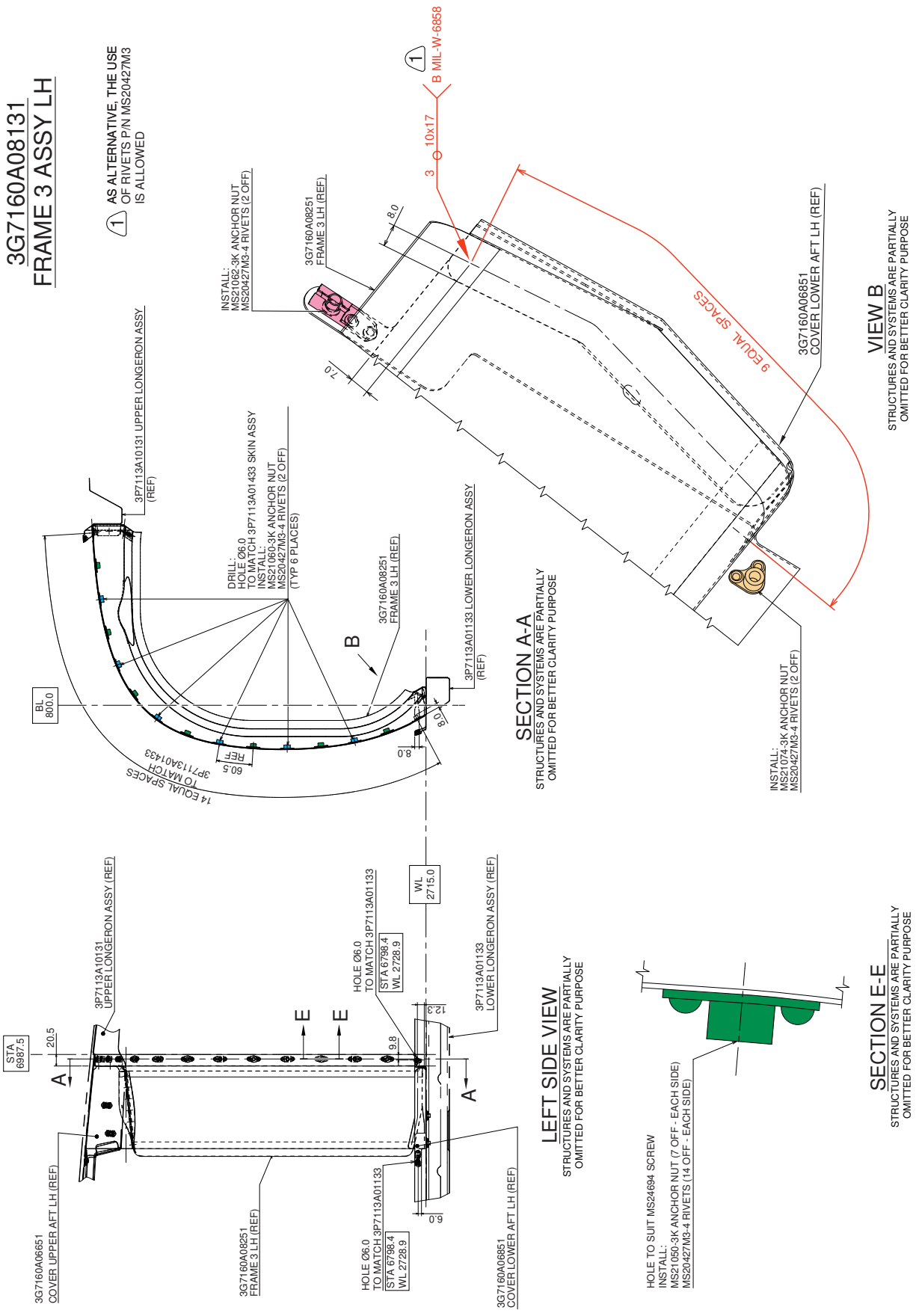
3G7160A08131
FRAME 3 ASSY LH
1 AS ALTERNATIVE, THE USE OF RIVETS P/N MS20427M3 IS ALLOWED
1 B MIL-W-6858
3 10x17
INSTALL: MS21062-3K ANCHOR NUT MS20427M3-4 RIVETS (2 OFF)
3G7160A08251 FRAME 3 LH (REF)
8.0
7.0
9 EQUAL SPACES
3G7160A06851 COVER LOWER AFT LH (REF)
VIEW B
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
3P7113A10131 UPPER LONGERON ASSY (REF)
DRILL: HOLE Ø6.0 TO MATCH 3P7113A01433 SKIN ASSY INSTALL: MS21060-3K ANCHOR NUT MS20427M3-4 RIVETS (2 OFF) (TYP 6 PLACES)
3G7160A08251 FRAME 3 LH (REF)
B
3P7113A01133 LOWER LONGERON ASSY (REF)
BL 800.0
14 EQUAL SPACES TO MATCH 3P7113A01433
60.5 REF
8.0
8.0
SECTION A-A
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
INSTALL: MS21074-3K ANCHOR NUT MS20427M3-4 RIVETS (2 OFF)
STA 6987.5
20.5
A
3P7113A10131 UPPER LONGERON ASSY (REF)
E
E
HOLE Ø6.0 TO MATCH 3P7113A01133
STA 6798.4
WL 2728.9
9.8
WL 2715.0
12.3
3P7113A01133 LOWER LONGERON ASSY (REF)
A
6.0
3G7160A06651 COVER UPPER AFT LH (REF)
3G7160A08251 FRAME 3 LH (REF)
HOLE Ø6.0 TO MATCH 3P7113A01133
STA 6798.4
WL 2728.9
3G7160A06851 COVER LOWER AFT LH (REF)
LEFT SIDE VIEW
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
HOLE TO SUIT MS24694 SCREW
INSTALL: MS21050-3K ANCHOR NUT (7 OFF - EACH SIDE) MS20427M3-4 RIVETS (14 OFF - EACH SIDE)
SECTION E-E
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

Figure 28

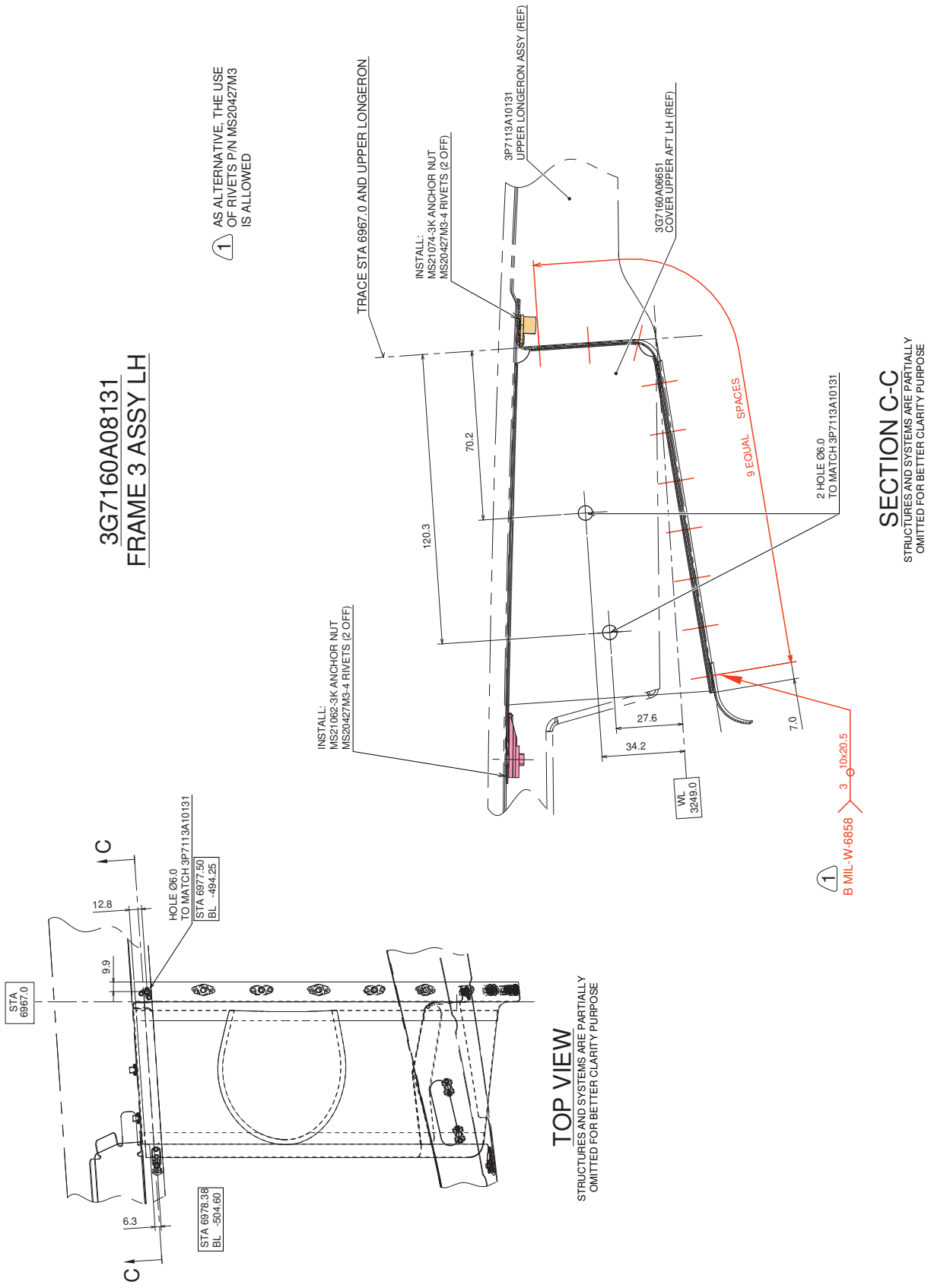
3G7160A08131
FRAME 3 ASSY LH
1 AS ALTERNATIVE, THE USE OF RIVETS P/N MS20427M3 IS ALLOWED
TRACE STA 6967.0 AND UPPER LONGERON
INSTALL: MS21074-3K ANCHOR NUT MS20427M3-4 RIVETS (2 OFF)
3P7113A10131 UPPER LONGERON ASSY (REF)
3G7160A06651 COVER UPPER AFT LH (REF)
9 EQUAL SPACES
2 HOLE Ø6.0 TO MATCH 3P7113A10131
INSTALL: MS21062-3K ANCHOR NUT MS20427M3-4 RIVETS (2 OFF)
120.3
70.2
27.6
34.2
7.0
WL 3249.0
1 B MIL-W-6858 3 10x20.5
SECTION C-C
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
C
12.8
9.9
HOLE Ø6.0 TO MATCH 3P7113A10131
STA 6977.50 BL -494.25
STA 6967.0
6.3
STA 6978.38 BL -504.60
C
TOP VIEW
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

Figure 29

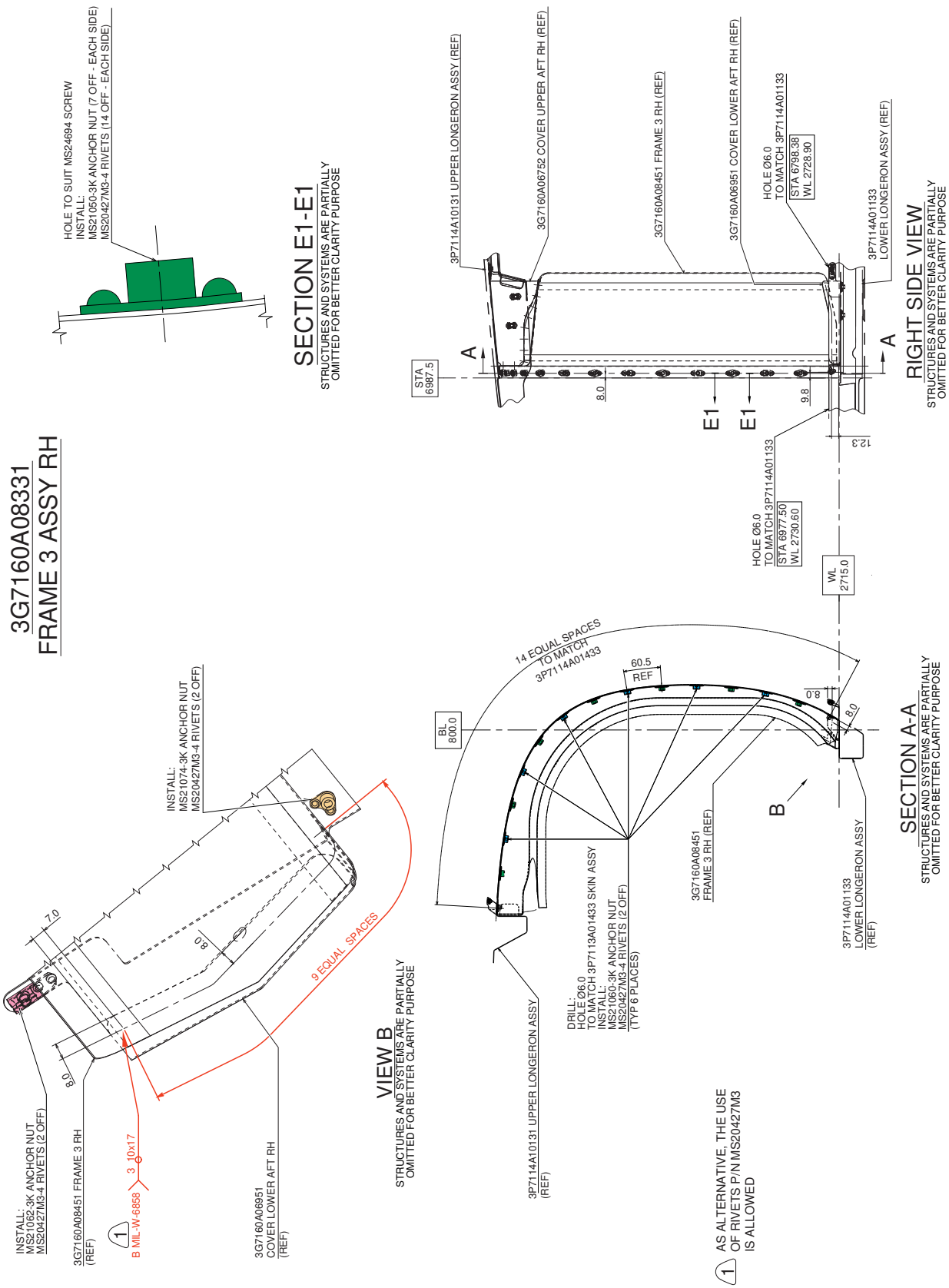
3G7160A08331
FRAME 3 ASSY RH
HOLE TO SUIT MS24694 SCREW
INSTALL:
MS21050-3K ANCHOR NUT (7 OFF - EACH SIDE)
MS20427M3-4 RIVETS (14 OFF - EACH SIDE)
SECTION E1-E1
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
3P7114A10131 UPPER LONGERON ASSY (REF)
3G7160A06752 COVER UPPER AFT RH (REF)
3G7160A08451 FRAME 3 RH (REF)
3G7160A06951 COVER LOWER AFT RH (REF)
HOLE Ø6.0
TO MATCH 3P7114A01133
STA 6798.38
WL 2728.90
3P7114A01133
LOWER LONGERON ASSY (REF)
STA 6987.5
RIGHT SIDE VIEW
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
HOLE Ø6.0
TO MATCH 3P7114A01133
STA 6977.50
WL 2730.60
WL 2715.0
14 EQUAL SPACES
TO MATCH
3P7114A01433
60.5
REF
BL 800.0
SECTION A-A
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
INSTALL:
MS21074-3K ANCHOR NUT
MS20427M3-4 RIVETS (2 OFF)
9 EQUAL SPACES
VIEW B
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
INSTALL:
MS21062-3K ANCHOR NUT
MS20427M3-4 RIVETS (2 OFF)
3G7160A08451 FRAME 3 RH
(REF)
B MIL-W-6858
3 10x17
3G7160A06951
COVER LOWER AFT RH
(REF)
3P7114A10131 UPPER LONGERON ASSY
(REF)
DRILL:
HOLE Ø6.0
TO MATCH 3P7113A01433 SKIN ASSY
INSTALL:
MS21060-3K ANCHOR NUT
MS20427M3-4 RIVETS (2 OFF)
(TYP 6 PLACES)
3G7160A08451
FRAME 3 RH (REF)
3P7114A01133
LOWER LONGERON ASSY
(REF)
AS ALTERNATIVE, THE USE
OF RIVETS P/N MS20427M3
IS ALLOWED

Figure 30

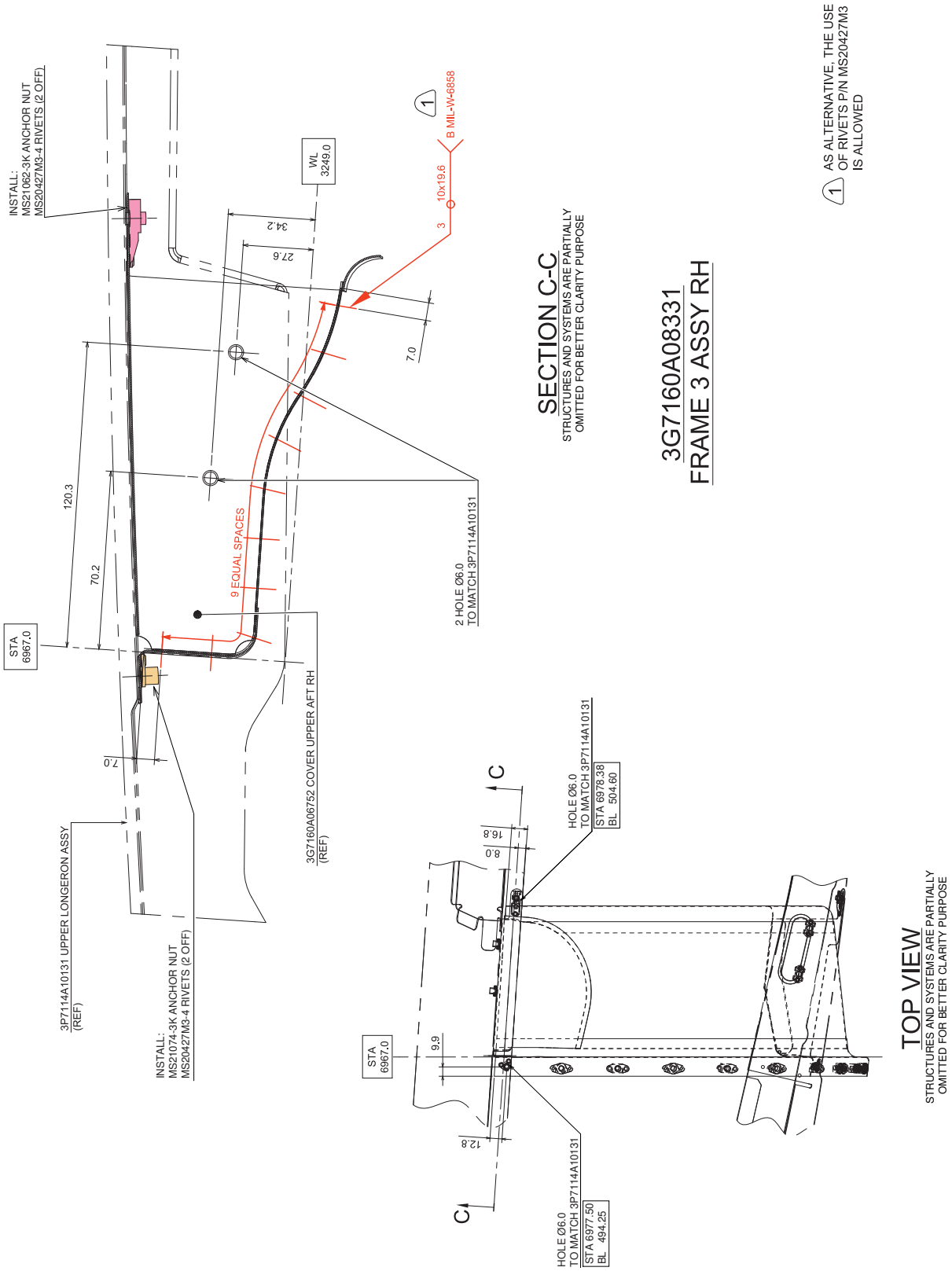
INSTALL:
MS21062-3K ANCHOR NUT
MS20427M3-4 RIVETS (2 OFF)
WL 3249.0
34.2
27.6
7.0
1
B MIL-W-6858
10x19.6
3
9 EQUAL SPACES
120.3
70.2
STA 6967.0
7.0
2 HOLE Ø6.0
TO MATCH 3P7114A10131
3G7160A06752 COVER UPPER AFT RH
(REF)
3P7114A10131 UPPER LONGERON ASSY
(REF)
INSTALL:
MS21074-3K ANCHOR NUT
MS20427M3-4 RIVETS (2 OFF)
SECTION C-C
STRUCTURES AND SYSTEMS ARE PARTIALLY
OMITTED FOR BETTER CLARITY PURPOSE
3G7160A08331
FRAME 3 ASSY RH
1
AS ALTERNATIVE, THE USE
OF RIVETS P/N MS20427M3
IS ALLOWED
C
HOLE Ø6.0
TO MATCH 3P7114A10131
STA 6978.38
BL 504.60
8.0
16.8
STA 6967.0
9.9
12.8
C
HOLE Ø6.0
TO MATCH 3P7114A10131
STA 6977.50
BL 494.25
TOP VIEW
STRUCTURES AND SYSTEMS ARE PARTIALLY
OMITTED FOR BETTER CLARITY PURPOSE

Figure 31

Cable Assy	Wire	From Ref Des	Electrical Contact	To Ref Des	Electrical Contact	Applicable TO
A1A515	W210B22-G	A1-1P1	M39029/57-354	K335P1	M39029/101-553	All
	W209B22-G	A1-1P4	M39029/57-354	SP10115	N.A.	All
	W204A22-G	CR1098	A523A-A02	TB143/2	A523A-A01	All
	W220A22-G	J103	M39029/56-348	PL155P1	M39029/56-348	ENH
	W221A22-G	J103	M39029/56-348	PL155P1	M39029/56-348	ENH
	W208A22-G	J109	M39029/56-351	PL155P1	M39029/56-348	All
	W209C22-G	K335P1	M39029/101-553	SP10115	N.A.	All
	W261A22N-G	K335P1	M39029/101-553	TB107P1	M39029/56-351	All
	W215A22-G	P131	M39029/58-360	PL155P1	M39029/56-348	All
	L51C22-G	PL155P1	M39029/56-348	SP10037	N.A.	All
	W200B22-G	PL155P1	M39029/56-348	P121	M39029/58-360	All
	W201B22-G	PL155P1	M39029/56-348	P121	M39029/58-360	All
	W203A22-G	PL155P1	M39029/56-348	CR1098	A523A-A02	All
	W206A22-G	PL155P1	M39029/56-348	TB129/2	A523A-A05	All
	W207A22-G	PL155P1	M39029/56-348	J103	M39029/56-348	All
	W209A22-G	PL155P1	M39029/56-348	SP10115	N.A.	All
	W210A22-G	PL155P1	M39029/56-348	K335P1	M39029/101-553	All
	W214A22-G	PL155P1	M39029/56-348	P131	M39029/58-360	All
	L51A22-G	PL19P2	M39029/56-351	SP10037	N.A.	All
	L51B22-G	SP10037	N.A.	PL27P2	M39029/56-348	All
	W216A22-G	SP1986	N.A.	PL155P1	M39029/56-348	All
	W216B22-G	SP1986	N.A.	PL155P1	M39029/56-348	All
	W216C22N-G	TB121P1	M39029/56-351	SP1986	N.A.	All
	W205A22N-G	TB133	A523A-A02	PL155P1	M39029/56-348	All
	W204B22-G	TB143/2	A523A-A01	P121	M39029/58-360	All
	W204C22-G	TB143/2	A523A-A01	TB143/2	A523A-A01	All
A1A707	W220A22-G	J103	M39029/56-348	PL155P1	M39029/56-348	LN
	W221A22-G	J103	M39029/56-348	PL155P1	M39029/56-348	LN
A2A445	W218A22-S	J107	M39029/56-348	PL155P1	M39029/56-348	ENH
	W219A22-S	J107	M39029/56-348	PL155P1	M39029/56-348	ENH
	W212A22-S	PL155P1	M39029/56-348	P133	M39029/58-360	All
	W217A22-S	PL155P1	M39029/56-348	J107	M39029/56-348	ENH
	W211A22-S	P133	M39029/58-360	PL155P1	M39029/56-348	All
	W213A22-S	P133	M39029/58-360	PL155P1	M39029/56-348	All
A2A636	W218A22-S	J105	M39029/56-351	PL155P1	M39029/56-348	LN
	W219A22-S	J105	M39029/56-351	PL155P1	M39029/56-348	LN
	W217A22-S	PL155P1	M39029/56-348	J105	M39029/56-351	LN
B2B469	W217C22-S	J118	M39029/56-348	J214	M39029/56-351	All
	W218C22-S	J138	M39029/56-348	J214	M39029/56-351	All
	W219C22-S	J214	M39029/56-351	J138	M39029/56-348	All

Figure 32

Cable Assy	Wire	From Ref Des	Electrical Contact	To Ref Des	Electrical Contact	Applicable TO
B1B763	W221C22-G	J116	M39029/56-348	J210	M39029/56-351	All
	W220C22-G	J210	M39029/56-351	J114	M39029/56-348	All
B1A889	W215B22-G	J131	M39029/56-348	J215	M39029/56-351	All
	W214B22-G	J215	M39029/56-351	J131	M39029/56-348	All
B2A779	W211B22-S	J133	M39029/56-348	J217	M39029/56-351	All
	W212B22-S	J133	M39029/56-348	J217	M39029/56-351	All
	W213B22-S	J217	M39029/56-351	J133	M39029/56-348	All
A2B450	W217B22-S	P107	M39029/58-360	P118	M39029/58-360	ENH
	W218B22-S	P138	M39029/58-360	P107	M39029/58-360	ENH
	W219B22-S	P138	M39029/58-360	P107	M39029/58-360	ENH
A2B614	W217B22-S	P105	M39029/58-363	P118	M39029/58-360	LN
	W218B22-S	P138	M39029/58-360	P105	M39029/58-363	LN
	W219B22-S	P138	M39029/58-360	P105	M39029/58-363	LN
A1B479	W208D22-G	A2-1P4	M39029/57-354	SP10116	N.A.	All
	W207B22-G	K334P1	M39029/101-553	P103	M39029/58-360	All
	W207C22-G	K334P1	M39029/101-553	A2-1P1	M39029/57-354	All
	W208C22-G	K334P1	M39029/101-553	SP10116	N.A.	All
	W260A22N-G	K334P1	M39029/101-553	TB108P1	M39029/56-351	All
	W220B22-G	P114	M39029/58-360	P103	M39029/58-360	ENH
	W221B22-G	P116	M39029/58-360	P103	M39029/58-360	ENH
	W208B22-G	SP10116	N.A.	P109	M39029/58-363	All
A1B648	W220B22-G	P114	M39029/58-360	P103	M39029/58-360	LN
	W221B22-G	P116	M39029/58-360	P103	M39029/58-360	LN
F2A218	W211D22-S	P335	M39029/58-363	P601	M39029/56-348	All
	W212D22-S	P335	M39029/58-363	P601	M39029/56-348	All
	W213D22-S	P335	M39029/58-363	P601	M39029/56-348	All
	W214D22-S	P335	M39029/58-363	P601	M39029/56-348	All
	W215D22-S	P335	M39029/58-363	P601	M39029/56-348	All
F2B214	W217E22-S	P600	M39029/56-348	P334	M39029/58-363	All
	W218E22-S	P600	M39029/56-348	P334	M39029/58-363	All
	W219E22-S	P600	M39029/56-348	P334	M39029/58-363	All
	W220E22-S	P600	M39029/56-348	P334	M39029/58-363	All
	W221E22-S	P600	M39029/56-348	P334	M39029/58-363	All

LN: AW139 helicopters from S/N 31201 to S/N 31398, from S/N 41201 to S/N 41293.
ENH: AW139 helicopters from S/N 31400 onwards and from S/N 41300 onwards.

Figure 33

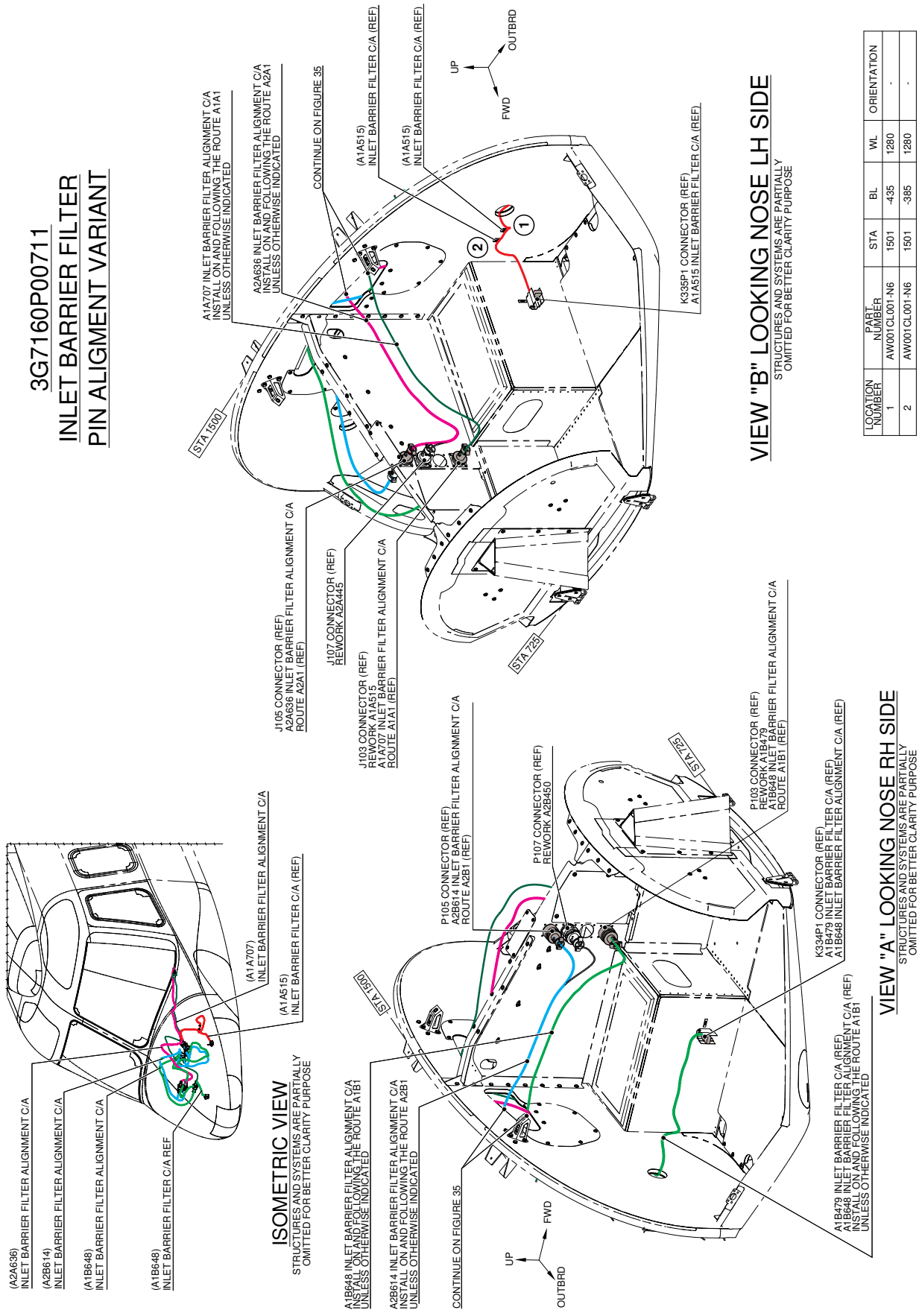
3G7160P00711
INLET BARRIER FILTER
PIN ALIGMENT VARIANT
ISOMETRIC VIEW
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
(A2A636) INLET BARRIER FILTER ALIGNMENT C/A
(A2B614) INLET BARRIER FILTER ALIGNMENT C/A
(A1B648) INLET BARRIER FILTER ALIGNMENT C/A
(A1B648) INLET BARRIER FILTER C/A REF
(A1A707) INLET BARRIER FILTER ALIGNMENT C/A
(A1A515) INLET BARRIER FILTER C/A (REF)
A1B648 INLET BARRIER FILTER ALIGNMENT C/A INSTALL ON AND FOLLOWING THE ROUTE A1B1 UNLESS OTHERWISE INDICATED
A2B614 INLET BARRIER FILTER ALIGNMENT C/A INSTALL ON AND FOLLOWING THE ROUTE A2B1 UNLESS OTHERWISE INDICATED
CONTINUE ON FIGURE 35
STA 1500
STA 725
UP
FWD
OUTBRD
P105 CONNECTOR (REF) A2B614 INLET BARRIER FILTER ALIGNMENT C/A ROUTE A2B1 (REF)
P107 CONNECTOR (REF) REWORK A2B450
P103 CONNECTOR (REF) REWORK A1B479 A1B648 INLET BARRIER FILTER ALIGNMENT C/A ROUTE A1B1 (REF)
K334P1 CONNECTOR (REF) A1B479 INLET BARRIER FILTER C/A (REF) A1B648 INLET BARRIER FILTER ALIGNMENT C/A (REF)
A1B479 INLET BARRIER FILTER C/A (REF) A1B648 INLET BARRIER FILTER ALIGNMENT C/A (REF) INSTALL ON AND FOLLOWING THE ROUTE A1B1 UNLESS OTHERWISE INDICATED
VIEW "A" LOOKING NOSE RH SIDE
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
A1A707 INLET BARRIER FILTER ALIGNMENT C/A INSTALL ON AND FOLLOWING THE ROUTE A1A1 UNLESS OTHERWISE INDICATED
A2A636 INLET BARRIER FILTER ALIGNMENT C/A INSTALL ON AND FOLLOWING THE ROUTE A2A1 UNLESS OTHERWISE INDICATED
CONTINUE ON FIGURE 35
J105 CONNECTOR (REF) A2A636 INLET BARRIER FILTER ALIGNMENT C/A ROUTE A2A1 (REF)
J107 CONNECTOR (REF) REWORK A2A445
J103 CONNECTOR (REF) REWORK A1A515 A1A707 INLET BARRIER FILTER ALIGNMENT C/A ROUTE A1A1 (REF)
(A1A515) INLET BARRIER FILTER C/A (REF)
(A1A515) INLET BARRIER FILTER C/A (REF)
K335P1 CONNECTOR (REF) A1A515 INLET BARRIER FILTER C/A (REF)
VIEW "B" LOOKING NOSE LH SIDE
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
LOCATION NUMBER | PART NUMBER | STA | BL | WL | ORIENTATION
1 | AW001CL001-N6 | 1501 | -435 | 1280 | -
2 | AW001CL001-N6 | 1501 | -385 | 1280 | -

Figure 34

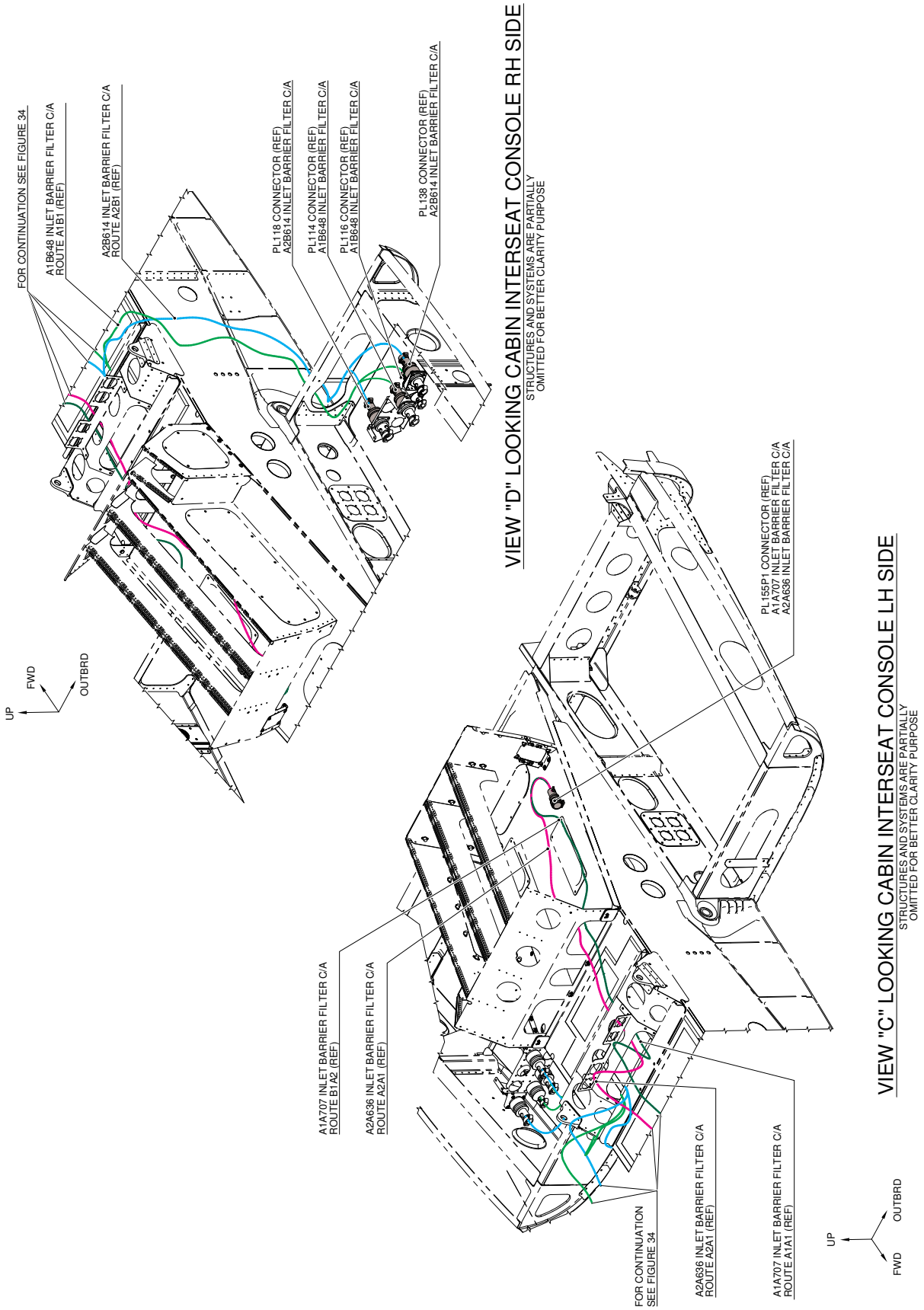
VIEW "D" LOOKING CABIN INTERSEAT CONSOLE RH SIDE
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
FOR CONTINUATION SEE FIGURE 34
A1B648 INLET BARRIER FILTER C/A ROUTE A1B1 (REF)
A2B614 INLET BARRIER FILTER C/A ROUTE A2B1 (REF)
PL118 CONNECTOR (REF) A2B614 INLET BARRIER FILTER C/A
PL114 CONNECTOR (REF) A1B648 INLET BARRIER FILTER C/A
PL116 CONNECTOR (REF) A1B648 INLET BARRIER FILTER C/A
PL138 CONNECTOR (REF) A2B614 INLET BARRIER FILTER C/A
UP
FWD
OUTBRD
VIEW "C" LOOKING CABIN INTERSEAT CONSOLE LH SIDE
STRUCTURES AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
PL155P1 CONNECTOR (REF) A1A707 INLET BARRIER FILTER C/A A2A636 INLET BARRIER FILTER C/A
A1A707 INLET BARRIER FILTER C/A ROUTE B1A2 (REF)
A2A636 INLET BARRIER FILTER C/A ROUTE A2A1 (REF)
FOR CONTINUATION SEE FIGURE 34
A2A636 INLET BARRIER FILTER C/A ROUTE A2A1 (REF)
A1A707 INLET BARRIER FILTER C/A ROUTE A1A1 (REF)
UP
FWD
OUTBRD

Figure 35

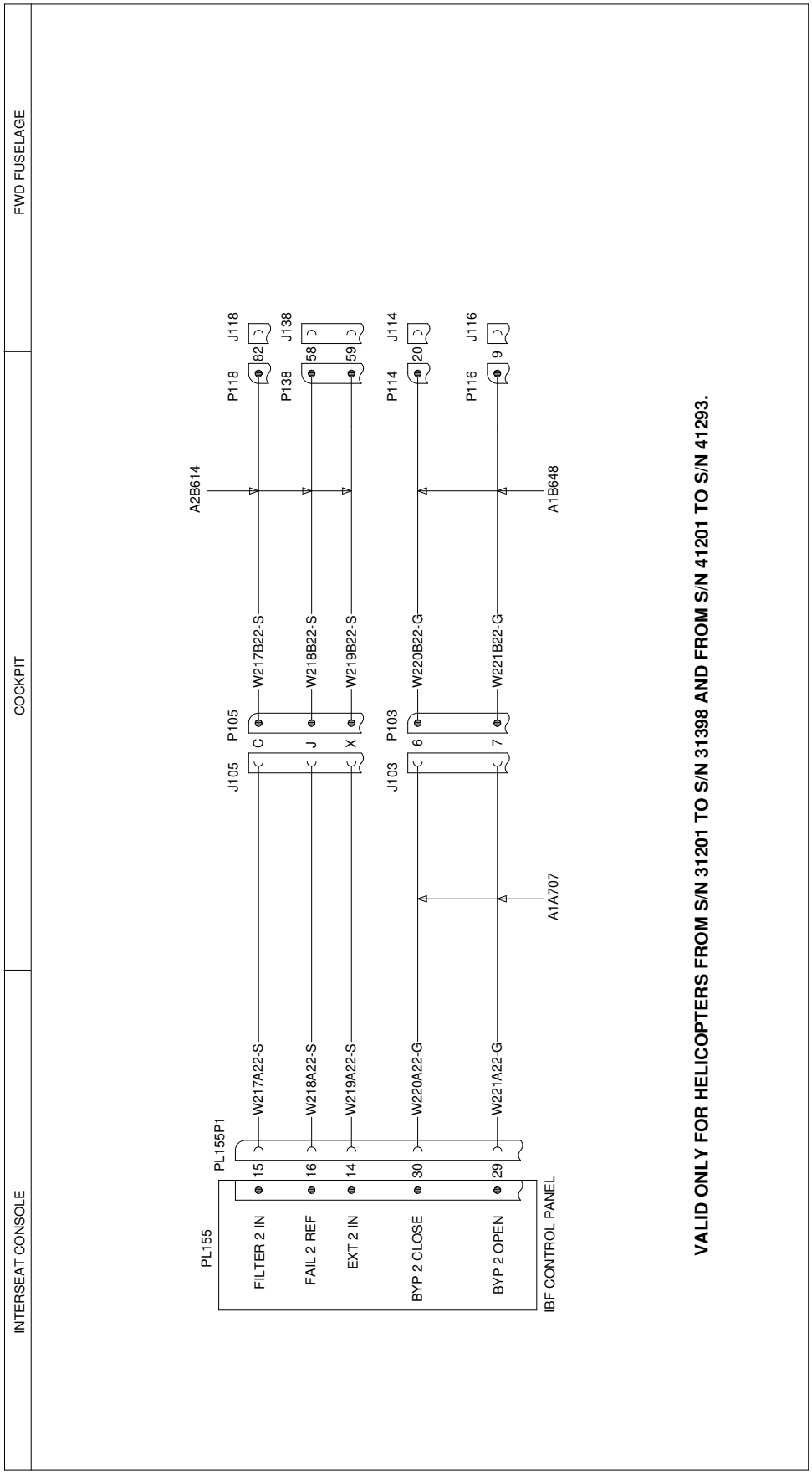
INTERSEAT CONSOLE
COCKPIT
FWD FUSELAGE
PL155
PL155P1
FILTER 2 IN
FAIL 2 REF
EXT 2 IN
BYP 2 CLOSE
BYP 2 OPEN
IBF CONTROL PANEL
15
16
14
30
29
W217A22-S
W218A22-S
W219A22-S
W220A22-G
W221A22-G
A1A707
J105
P105
J103
P103
C
J
X
6
7
W217B22-S
W218B22-S
W219B22-S
W220B22-G
W221B22-G
A2B614
A1B648
P118
J118
P138
J138
P114
J114
P116
J116
82
58
59
20
9
VALID ONLY FOR HELICOPTERS FROM S/N 31201 TO S/N 31398 AND FROM S/N 41201 TO S/N 41293.
FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM A2A636 UNLESS SPECIFIED
ALL CABLES ARE OF TYPE A556AT 22 UNLESS SPECIFIED

Figure 36

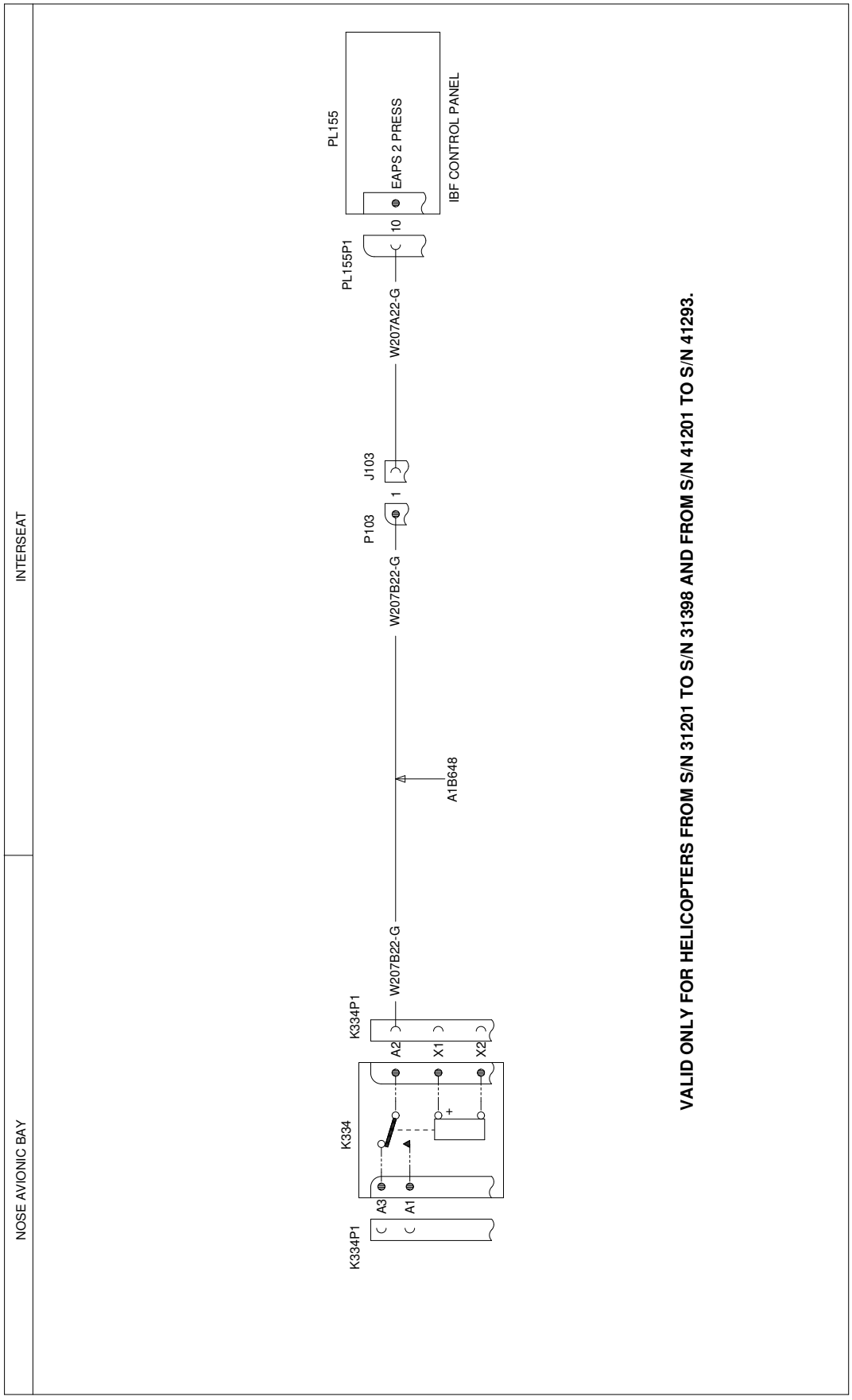
NOSE AVIONIC BAY
INTERSEAT
K334P1
K334
K334P1
A3
A1
A2
X1
X2
W207B22-G
A1B648
W207B22-G
P103
1
J103
W207A22-G
PL155P1
10
PL155
EAPS 2 PRESS
IBF CONTROL PANEL
VALID ONLY FOR HELICOPTERS FROM S/N 31201 TO S/N 31398 AND FROM S/N 41201 TO S/N 41293.
FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM A1A707 UNLESS SPECIFIED
ALL CABLES ARE OF TYPE A556AT 22UNLESS SPECIFIED

Figure 37

LEONARDO
HELICOPTERS

AgustaWestland Products

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

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

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

Remarks:

Information:

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