Leonardo S.p.A.
Via Giovanni Agusta, 520
21017 Cascina Costa di Samarate (VA) Italy
Tel.: +39 0331 229111 - Fax: +39 0331 229605/222595

AgustaWestland Products

SERVICE BULLETIN

OPTIONAL

N° 189-379

DATE: July 2, 2024

REV. : /

TITLE

ATA 25 - SINGLE HOIST TO FOLDABLE CONVERSION RETROMOD

REVISION LOG

First Issue

1. PLANNING INFORMATION

A. EFFECTIVITY

AW189 helicopters S/N 89008 and S/N 89009.

B. COMPLIANCE

At Customer's option.

C. CONCURRENT REQUIREMENTS

N.A.

D. REASON

This Service Bulletin is issued in order to give instruction on how to convert the “single hoist kit” P/N 8G2591F00111 to “foldable hoist kit” via the retromod P/N 8G2591F00212.

LH issued this SB for the following reason:

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

E. DESCRIPTION

The foldable single rescue hoist system is used for rescue operations and to lift and lower cargo loads in areas where the helicopter cannot land. This hoist is equipped with a foldable boom that allows the helicopter to flight with hoist in folded position when not in use.

Part I of this SB gives instructions on how to remove the parts of the structural and electrical provision of the "single hoist kit" PN 8G2591F00111 and how to install the structural and the electrical provision of the foldable hoist kit.

Part II gives instructions on how to install the equipment and labels required to complete the installation.

F. APPROVAL

The technical content of this Service Bulletin is approved under the authority of DOA nr. EASA.21.J.005. For helicopters registered under other Aviation Authorities, before

applying the Service Bulletin, applicable Aviation Authority approval must be checked within Leonardo Helicopters customer portal.

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

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

G. MANPOWER

To comply with this Service Bulletin the following MMH are deemed necessary.

Part I: approximately four hundred (400);

Part II: approximately fifty (50).

MMH are based on hands-on time and can change with helicopter configuration, personnel and facilities available. MMH are not comprehensive of the overall hours necessary to get access to work areas and to remove all the equipment that interferes with the application of the prescribed instructions.

H. WEIGHT AND BALANCE

WEIGHT (kg)	22.27	
	ARM (mm)	**MOMENT (kg·mm)**
LONGITUDINAL BALANCE	5395	120146,65
LATERAL BALANCE	196	4364,92

I. REFERENCES

I.1 PUBLICATIONS

Following Data Modules refer to AMP:

DATA MODULE		**DESCRIPTION**	**PART**
DM01	89-A-00-20-00-00A-120A-A	Helicopter on ground for a safe maintenance.	I, II
DM02	89-A-06-41-00-00A-010A-A	Access doors and panels - General data.	I, II
DM03	89-A-25-91-01-00A-520A-A	Single rescue hoist assembly - Remove procedure.	I
DM04	89-A-25-91-02-00A-520A-A	Hoist mount - Remove procedure.	I
DM05	89-A-25-91-07-00A-520A-A	Mounting plate - Remove procedure.	II

DATA MODULE		DESCRIPTION	PART
DM06	89-A-25-91-06-00A-520A-A	Hoist operator control panel - Remove procedure.	II
DM07	89-A-11-00-01-00A-520A-A	Decal (polyester film) - Remove procedure.	I, II
DM08	89-A-11-00-01-00A-720A-A	Decal - Install procedure.	I, II
DM09	89-A-25-91-05-00A-520A-A	Hoist control panel - Remove procedure.	II
DM10	89-B-25-91-05-00A-720A-A	Adapter plate - Install procedure.	II
DM11	89-B-25-91-02-00A-720A-A	Single rescue hoist assembly - Install procedure.	II
DM12	89-A-24-81-00-05A-752B-A	SSEPMS - Personality modules (PMs) - Data loading	II
DM13	89-A-46-21-00-00A-750A-A	Aircraft mission management system - Load software procedure	II
DM14	89-A-46-31-00-00A-750A-A	Cockpit display system - Load software procedure	II
DM15	89-A-24-81-00-04A-752A-A	SSEPMS - Remote electric power units (REPUs) - Data loading	II
DM16	89-B-25-91-06-00A-720A-A	Hoist control panel - Install procedure	II

Following Data Modules refer to CSPP:

DATA MODULE		DESCRIPTION	PART
DM17	CSPP-A-20-10-13-00A-622A-D	Electrical contacts – Crimp	I
DM18	CSPP-A-20-10-02-00A-622A-D	Terminal lug - Crimp	I
DM19	CSPP-A-20-10-01-00A-691A-D	Wires and cables – Marking	I

I.2 ACRONYMS & ABBREVIATIONS

AMDI	Aircraft Material Data Information
AMMC	Aircarft & Mission Management Computer
AMP	Aircraft Maintenance Publication
ATP	Acceptance Test Procedure
C/A	Cable Assy
CDS	Cockpit Display System
CSPP	Common Standard Practices Pubblication
DM	Data Module
DOA	Design Organization Approval
EASA	European Aviation Safety Agency
ECDU	Electrical Control and Display Unit
EMC	Electro Magnetic Compatibility

IPD	Illustrated Parts Data
ITEP	Illustrated Tool and Equipment Publication
MMH	Maintenance Man Hours
N.A.	Not Applicable
P/N	Part Number
S/N	Serial Number
SB	Service Bulletin

I.3 ANNEX

Annex A	Electro Magnetic Compatibility ATP
Annex B	Fuse Test Cable Installation and Verification Procedure

J. PUBLICATIONS AFFECTED

N.A.

K. SOFTWARE ACCOMPLISHMENT SUMMARY

Software to be updated:

AMMC Option File P/N 8G4620AOXXXX;

CDS Option File P/N 8G4630AOXXXX;

ECDU Configuration File P/N 8G4620AC0XXX.

REPU Configuration Table P/N 8G2460AS0XXX.

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

SW DESCRIPTION	S/N HELICOPTER	
	P/N SW INSTALLED (COMPILED BY CUSTOMER)	P/N SW TO BE ORDERED (COMPILED BY LEONARDO COMPANY)
AMMC OPTION FILE		
CDS OPTION FILE		
ECDU CONFIG TABLE		

2. MATERIAL INFORMATION

A. REQUIRED MATERIALS

A.1 PARTS

PART I

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
1	**8G2591P02311**		**HOIST CONV SINGLE TO FOLDABLE RETROMOD**	**REF**	**.**		
2	**8G2591P02111**		**SINGLE HOIST TO FOLDABLE STRUCT PROVS**	**REF**	**..**		
3	8G2580A51251		Cover hoist connector assy	1	…		189-379L1
4	8G2591A22031		Plinth assy	1	…		189-379L1
5	8G2591A23031		Bond strap assy	1	…		189-379L1
6	8G2591A23251		Bond strap	1	…		189-379L1
7	8G2591A23331		Cover assy	1	…		189-379L1
8	A363A02		Terminal	1	…		189-379L1
9	A363A03		Terminal	1	…		189-379L1
10	A414A03V218A1		Support	1	…		189-379L1
11	A428A08C08		Screw	10	…		189-379L1
12	AN525-416R10		Screw	1	…		189-379L1
13	D38999/22CW		Dummy connector	1	…		189-379L1
14	D38999/22DW		Dummy connector	1	…		189-379L1
15	D38999/33W15R		Cover	1	…		189-379L1
16	M83723/61-118W		Dummy connector	1	…		189-379L1
17	M85049/95-14A-A		Connector mounting device	1	…		189-379L1
18	M85049/95-16A-A		Connector mounting device	1	…		189-379L1
19	M85049/95-18A-A		Connector mounting device	1	…		189-379L1
20	MS20426A3-6		Rivet	0.1 kg	…		189-379L1
21	MS21042-4		Nut self-locking	1	…		189-379L1
22	MS21069L06		Nut self-locking plate	2	…		189-379L1
23	MS21069L3		Nut self-locking plate	2	…		189-379L1
24	MS27039-1-07		Screw machine	2	…		189-379L1
25	NAS1097AD3-4		Rivet	0.1 kg	…		189-379L1
26	NAS1149D0316K		Washer	2	…		189-379L1
27	NAS1149D0463J		Washer	1	…		189-379L1
28	NAS1149DN416J		Washer	12	…		189-379L1
29	NAS1802-04-7		Screw	12	…		189-379L1
30	NAS1836-3-18M		Insert	4	…		189-379L1
31	**8G2591A27411**		**SINGLE HOIST TO FOLDABLE C/A INST.**	**REF**	**..**		
32	667-312NF15R3		Cover	1	…		189-379L1
33	8G2591A21611A1R		Single hoist to foldable C/A	1	…	(1)	-
34	8G2591A21611A3R		Single hoist to foldable C/A	1	…	(1)	-
35	**8G9A21A49701**		**SINGLE HOIST TO FOLDABLE C/A (A1A497)**	**REF**	**…**		
36	A556A-T22		Electrical wire	2 m	….		189-379L1
37	M39029/56-348		Electrical contact	2	….		189-379L1
38	**8G9A21B46701**		**SINGLE HOIST TO FOLDABLE C/A (A1B467)**	**REF**	**…**		
39	A523A-A01		Electrical contact	1	….		189-379L1
40	A529A400-1302T		Backshell	1	….		189-379L1
41	A556A-T22		Electrical wire	65m	….		189-379L1
42	D38999/26JC35SN		Connector	1	….		189-379L1

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
43	M39029/56-348		Electrical contact	26	....		189-379L1
44	M39029/56-351		Electrical contact	1	....		189-379L1
45	M39029/58-360		Electrical contact	6	....		189-379L1
46	M39029/58-363		Electrical contact	11	....		189-379L1
47	M81824/1-1		Splice	1	....		189-379L1
48	**8G9B21A45101**		**SINGLE HOIST FOLDABLE C/A (B1A451)**	**REF**	**...**	**(1)**	
49	A556A-T2		Electrical wire	2 m	....		189-379L1
50	A584A04		Nipple	1	....		189-379L1
51	MS25036-126		Terminal lug	1	....		189-379L1
52	MS25036-127		Terminal lug	1	....		189-379L1
53	**8G9B21B46001**		**SINGLE HOIST FOLDABLE C/A (B1B460)**	**REF**	**...**	**(1)**	
54	A365A08	AW001XT2BD090	Terminal lug	1	....		189-379L1
55	A556A-T2		Electrical wire	1m	....		189-379L1
56	M39029/30-222		Electrical contact	1	....		189-379L1
57	MS3348-0-2	M39029/112-0-2	Adaptert	1	....		189-379L1
58	**8G9B21B46101**		**SINGLE HOIST FOLDABLE C/A (B1B461)**	**REF**	**...**	**(1)**	
59	A556A-T2		Electrical wire	2 m	....		189-379L1
60	A584A04	MS25171-3S	Nipple	1	....		189-379L1
61	M39029/30-222		Electrical contact	1	....		189-379L1
62	M85049/52-1-32W		Electrical connector	1	....		189-379L1
63	MS25036-126		Terminal lug	1	....		189-379L1
64	MS3348-0-2	M39029/112-0-2	Adapter	1	....		189-379L1
65	MS3450W32-15S		Connector	1	....		189-379L1
66	**8G9B21B46301**		**SINGLE HOIST FOLDABLE C/A (B1B463)**	**REF**	**...**	**(1)**	
67	A532A300-1402T		Electrical connector	1	....		189-379L1
68	A532A300-1802C		Electrical connector	1	....		189-379L1
69	A532A345-1402		Adapter	1	....		189-379L1
70	A532A390-1802		Adapter	1	....		189-379L1
71	A560A-T2-20		Electrical wire	8 m	....		189-379L1
72	A560A-T3-16		Electrical wire	2 m	....		189-379L1
73	M39029/5-115		Electrical contact	8	....		189-379L1
74	M39029/5-116		Electrical contact	14	....		189-379L1
75	M83723/82W1412N		Connector	1	....		189-379L1
76	M83723/91W1814N		Connector	1	....		189-379L1
77	8G9B21B46501	8G9B21B46501A1R	Single hoist foldable C/A (B1B465)	1	...		189-379L1
78	8G9B21B46601	8G9B21B46601A1R	Single hoist foldable C/A (B1B466)	1	...		189-379L1
79	**8G9B21B58401**		**SINGLE HOIST TO FOLDABLE C/A (B1B584)**	**REF**	**...**		
80	A529A490-1502		Adapter	1	....		189-379L1
81	A532A400-1502C11		Backshell	2	....		189-379L1
82	A556A-T22		Electrical wire	2 m	....		189-379L1
83	A560A-T2-22		Electrical wire	2 m	....		189-379L1
84	A561A-T2-22		Electrical wire	2 m	....		189-379L1
85	D38999/20JD35SN		Connector	1	....		189-379L1
86	D38999/26JD35PN		Connector	1	....		189-379L1
87	M39029/56-348		Electrical contact	18	....		189-379L1
88	M39029/58-360		Electrical contact	18	....		189-379L1
89	**8G9B21B58501**		**SINGLE HOIST TO FOLDABLE C/A (B1B585)**		**REF**		
90	A523A-A03		Electrical contact	1	....		189-379L1
91	A523A-A09		Electrical contact	1	....		189-379L1
92	A523A-B02		Electrical contact	18	....		189-379L1

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
93	A529A400-1302T		Backshell	1	....		189-379L1
94	A529A490-1302		Adapter	1	....		189-379L1
95	A532A300-1802C		Backshell	1	....		189-379L1
96	A532A390-1802		Adapter	1	....		189-379L1
97	A556A-T16		Electrical wire	3 m	....		189-379L1
98	A556A-T22		Electrical wire	20 m	....		189-379L1
99	A560A-T2-22		Electrical wire	5 m	....		189-379L1
100	A561A-T3-22		Electrical wire	1 m	....		189-379L1
101	A593A-H06		Terminal board	1	....		189-379L1
102	D38999/26JC35PN		Connector	1	....		189-379L1
103	M39029/5-116		Electrical contact	2	....		189-379L1
104	M39029/56-348		Electrical contact	12	....		189-379L1
105	M39029/56-351		Electrical contact	11	....		189-379L1
106	M39029/57-354		Electrical contact	2	....		189-379L1
107	M39029/58-360		Electrical contact	4	....		189-379L1
108	M81824/1-1		Splice	5	....		189-379L1
109	M83723/91W1814N		Electrical connector	1	....		189-379L1
110	MS25036-149		Terminal lug	6	....		189-379L1
111	**8G9B22B30001**		**SINGLE HOIST TO FOLDABLE C/A (B2B300)**	**REF**			
112	A523A-B02		Electrical contact	4	....		189-379L1
113	A529A400-1102T		Backshell	1	....		189-379L1
114	A529A445-1102		Adaptor	1	....		189-379L1
115	A561A-T2-22		Electrical wire	4 m	....		189-379L1
116	D38999/20JB98SN		Connector	1	....		189-379L1
117	M39029/56-351		Electrical contact	4	....		189-379L1
118	**8G9C21A38301**		**SINGLE HOIST TO FOLDABLE C/A (C1A383)**	**REF**			
119	A556A-T22		Electrical wire	2 m	....		189-379L1
120	M39029/56-348		Electrical contact	1	....		189-379L1
121	M39029/56-351		Electrical contact	1	....		189-379L1
122	**8G9C21B36301**		**SINGLE HOIST TO FOLDABLE C/A (C1B363)**	**REF**			
123	A523A-A01		Electrical contact	3	....		189-379L1
124	A556A-T22		Electrical wire	9 m	....		189-379L1
125	M39029/56-348		Electrical contact	1	....		189-379L1
126	M39029/58-363		Electrical contact	2	....		189-379L1
127	ED300GS274		Decal	1	...		189-379L1
128	ED300J2002		Decal	1	...		189-379L1
129	ED300J2006		Decal	1	...		189-379L1
130	ED300J2008		Decal	1	...		189-379L1
131	ED300J2014		Decal	1	...		189-379L1
132	ED300J2016		Decal	1	...		189-379L1
133	ED300TB218		Decal	1	...		189-379L1
134	M85049/95-12A-A		Connector mounting device	1	...		189-379L1
135	M85049/95-14A-A		Connector mounting device	1	...		189-379L1
136	M85049/95-16A-A		Connector mounting device	2	...		189-379L1
137	M85049/95-32A-A		Connector mounting device	1	...		189-379L1
138	M85049/95-10A-A		Connector mounting device	1	...		189-379L1
139	AW001SC02508AE		Cover Plate	1	...		189-379L1
140	NAS1149DN416J		Washer	20	...		189-379L1
141	NAS1149DN616J		Washer	6	...		189-379L1
142	NAS1802-04-6		Screw	4	...		189-379L1
143	NAS1802-04-7		Screw	8	...		189-379L1
144	NAS1802-04-8		Screw	8	...		189-379L1
145	NAS1802-06-7		Screw	2	...		189-379L1

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
146	NAS1802-06-8		Screw	4	…		189-379L1

PART II

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
147	**8G2591A27311**		**SINGLE HOIST TO FOLDABLE EQUIP. INST.**	**REF**	**..**		
148	6F2500L00153		Swivel plate	1	…		189-379L2
149	7236-1-150		Current sensor	1	…		189-379L2
150	8G2591A22931		Single hoist, control panel blanked SW	REF	…	(9)	-
151	6F2591V00151		Hoist control panel	1	….	(9)	189-379L2
152	8G2591L00451		Single hoist, control panel blank plate	1	….	(9)	189-379L2
153	NAS620-8L		Washer	2	….	(9)	189-379L2
154	8G2591A22831		Single hoist, control panel blanked SW	1	…		189-379L2
155	A616A1A20		Circuit breaker	1	…		189-379L2
156	AW002SC310A		Plate assembly	1	…		189-379L2
157	AW002SC311A		Plate assembly	1	…		189-379L2
158	ED300K2030		Decal	1	…		189-379L2
159	ED300PL90		Decal	1	…		189-379L2
160	ED300S244		Decal	1	…		189-379L2
161	ED300S246		Decal	1	…		189-379L2
162	NAS1149D0332J		Washer	2	…		189-379L2
163	NAS1149DN816J		Washer	2	…		189-379L2
164	NAS1802-08-8		Screw	2	…		189-379L2
165	NAS1802-3-8		Screw	2	…		189-379L2
166	**8G2591A22511**		**SINGLE HOIST FOLDABLE INSTL (GOODRICH)**	**REF**	**..**		
167	8G2591A03251		Bolt	2	…		189-379L2
168	8G2591A13351		Bolt	2	…		189-379L2
169	8G2591A21851		Foldable hoist adapter	1	…		189-379L2
170	8G2591A21951		Special bolt	6	…		189-379L2
171	B7444-1-1-10C		Insulation sleeve	1 m	…		189-379L2
172	MS14144-6		Nut	6	…		189-379L2
173	MS20002C6		Washer	10	…		189-379L2
174	MS24665-300		Pin	6	…		189-379L2
175	NAS1149C0663R		Washer	6	…		189-379L2
176	**8G2591A22631**		**SINGLE HOIST ASSY**	**REF**	**…**		**-**
177	3G2591A05351		Hoist support	1	….		189-379L2
178	3G2591V01532		Hoist core	1	….		189-379L2
179	3G2591V02053	3G2591V02051	Hook assy (slide-lock)	1	….		189-379L2
180	3G2591V02831		Boom assy	1	….		189-379L2
181	42315-281		Cartridge	1	….		189-379L2
182	44316-45-102		Main hoist harness kit	1	….		189-379L2
183	44316-46-101		Hoist, single fairing kit	1	….		189-379L2
184	AN5C36A		Bolt	2	….		189-379L2
185	AW001CK02UV		Strap,tiedown	8	….		189-379L2
186	AW001CK06UV		Strap,tiedown	1	….		189-379L2
187	MS21043-5		Nut,self-locking	2	….		189-379L2
188	NAS1149C0516R		Washer	4	….		189-379L2
189	**8G1130A37611**		**SINGLE HOIST FOLDABLE, LABEL INSTL.**	**REF**	**..**		
190	AW002DBHC010E04I		Decal	1	…		189-379L2
191	AW002DBHC045E02I		Decal	1	…		189-379L2
192	AW002DBHM050E02I		Decal	3	…		189-379L2

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
193	AW002DBHO001E02C		Decal	2	…		189-379L2
194	AW002DBHO057E02A		Decal	1	…		189-379L2
195	AW002DBHR068E02I		Decal	2	…		189-379L2
196	8G4620AOXXXX		AMMC Option File	1	.	(5)(6)	-
197	8G4630AOXXXX		CDS Option File	1	.	(5)(6)	-
198	8G4620AC0XXX		ECDU Configuration File	1	.	(5)(6)	-
199	8G2460AS0XXX		REPU Configuration Table	1	.	(5)(6)	-
200	D38999/20WA35PN		Connector	1	.	(7)	189-379L2
201	A530A4A09		Backshell	1	.	(7)	189-379L2
202	360-7294		fuse in line carrier	2	.	(7)(8)	-
203	CF632116		fuse type 250V 160mA - 6,3x32 - glass, fast OMEGA	2	.	(7)(8)	-
204	M39029/56-350		Socket	4	.	(7)	189-379L2
205	M23053/5-109-0		Heatshrinkable tubing	2m	.	(7)(4)	189-379L2
206	M81824/1-1		Splices	4	.	(7)	189-379L2
207	A556-T22		Wire	2m	.	(7)	189-379L2
208	A525A04-5	EN6049-003-04-5	Tubing, braided	2m	.	(7)	189-379L2
209	A525A08-5	EN6049-003-08-5	Tubing, braided	2m	.	(7)	189-379L2

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

Refer also to Annex A and Annex B for the spares materials required to comply with this Service Bulletin.

A.2 CONSUMABLES

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

#	SPEC./LHD CODE NUMBER	DESCRIPTION	Q.TY	NOTE	PART
210	AWMS05-001 TYPE 1, CLASS B, GRADE 2	Sealing compound MC-780 (C465)	AR	(3)	I
211	Commercial	Adhesion promoter 86A (C198)	AR	(3)	I
212	AWMS28-002 TYPE I CLASS 1	Primer epoxy polyamide (C204)	AR	(3)	I
213	MIL-PRF-16173 CL I, GR 1	Corrosion inhibitor Tectyl 891D (C385)	AR	(3)	I
214	AWMS05-001 TY I, CL A, GR 2	Sealing compound MC-780 (C465)	AR	(3)	I
215	Commercial	Cor-Ban 27L (C075)	AR	(3)	I
216	199-05-002 TY II, CL 2	Adhesive EA934NA (C397)	AR	(3)	I
217	Commercial	Thixoflex Gray TG8498-50 (C347)	AR	(3)	I
218	A582A05 or EN6049-006-05-5	Nomex braided tubing	AR	(3)(4)	I
219	A236A01AB	Edging	AR	(3)(4)	I
220	MIL-PRF-81309 TYPE III CLASS 1	Corrosion preventive compound Ardrox 3204 (C564)	AR	(3)	I
221	Commercial Code n° 900001857	3M vinyl tape 471 (C207)	AR	(2)(3)	II
222	MS20995C41	Wire lock	AR	(3)	II
223	MIL-S-8802 Type II, class B2	Sealing compound Proseal 890B2 (C153)	AR	(3)	I
224	Code No. 900004953	Lacing cord	AR	(3)(7)	Annex B

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

Refer also to Annex A and Annex B for the consumable materials required to comply with this Service Bulletin.

A.3 LOGISTIC MATRIX

In order to apply this Service Bulletin, the following Logistic P/N can be ordered in accordance with the applicable notes:

LOGISTIC P/N	Q.TY (PER HELO)	NOTE	PART
189-379L1	1		Part I
189-379L2	1		Part II
8G4620AOXXXX	1	(5)(6)	
8G4630AOXXXX	1	(5)(6)	
8G4620AC0XXX	1	(5)(6)	

NOTES

(1) Productive P/N 8G2591A21611A3R can be supplied as alternative to indicated P/Ns in accordance with “Accomplishment Instructions” Section.

(2) Depending on the aircraft colour scheme white tape P/N 999999999000000852 or black tape P/N 590220200 may be used as an alternative.

(3) Item to be procured as local supply.

(4) Indicated P/N refer to a specific size. The last digits can be different based on the actual required installation.

(5) P/Ns of Option Files, ECDU configuration file and REPU configuration table are depending upon helicopter configuration that can be different from the one reported in relevant helicopter “Commessa di Vendita” Customers must contact Product Support Engineering (engineering.support.lhd@leonardo.com) to request the correct Option File at least three months in advance from the scheduled application of this Service Bulletin.

(6) This software will not be supplied; as specified by Information Letter AW189-19- 019, it will be available for download, along with relevant certification document, in “My Software” sub-section of Leonardo Customer Portal website https://customerportal.leonardocompany.com.

(7) Item required to assemble the EFS EAD test cable as described in Annex B.

(8) Commercial item, to be procured as local supply.

(9) These items will be supplied as alternative to the assembled control panel P/N 8G2591A22931.

B. SPECIAL TOOLS

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

Refer also to Annex A and Annex B for the special tools required to comply with this Service Bulletin.

C. INDUSTRY SUPPORT INFORMATION

Customization.

3. ACCOMPLISHMENT INSTRUCTIONS

GENERAL NOTES

a) Place an identification tag on all components that are re-usable, including the attaching hardware that has been removed to gain access to the modification area and adequately protect them until their later re-use.

b) Shape the cables in order to prevent interference with the structure and the other existing installations, using where necessary suitable lacing cords and plastic cable tiedown.

c) Exercise extreme care during drilling operations to prevent instruments, cables and hoses damage.

d) After drilling, remove all swarf and sharp edges. Apply on bare metal a light film of primer unless the hole is used for ground connection.

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

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

g) Exposed thread surface and nut must be protected using a layer of tectyl according to MIL-C-16173 grade I.

h) All lengths are in mm.

PART I

1. In accordance with AMP DM 89-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 89-A-06-41-00-00A-010A-A and with reference to Figures 1 thru 6 remove all external panels, internal panels and internal liners as required to gain access to the area affected by the installation and perform the hoist conv single to foldable retromod P/N 8G2591P02311 as described in the following procedure:

NOTE

Unless otherwise specified and except for electrical bonding areas, in low/medium indirect/direct exposure zones, perform the installation of riveted structural parts and riveted vendor components as follows:

- Apply a layer of sealing compound MC-780 (C465) on all faying surfaces.
- Wet assemble fixing fasteners by means of sealing compound MC-780 (C465).

NOTE

Unless otherwise specified and except for electrical bonding areas, in low/medium indirect/direct exposure zones, perform the installation of bolted structural parts and bolted vendor components as follows:

- Apply a layer of jointing compound Cor-Ban 27L (C075) on all faying surfaces.
- Wet assemble fixing fasteners by means of jointing compound Cor-Ban 27L (C075) applied under the head and on the shank of fasteners. For fasteners with a specific torque value, jointing compound shall be applied under the head only.

NOTE

Unless otherwise specified, in all level direct exposure zones and medium level indirect exposure zones, protect all removable fasteners that are not fully coated with polyurethane paint, using corrosion inhibitor Tectyl 891D (C385).

2.1 With reference to Figures 1 thru 6 perform the single hoist to foldable struct provs P/N 8G2591P02111 as described in the following procedure:

2.1.1 With reference to the following AMP DM remove the following kit single hoist P/N 8G2591F00111 parts and relative decals from the helicopter:

- 89-A-25-91-01-00A-520A-A, Single rescue hoist assembly
- 89-A-25-91-02-00A-520A-A, Hoist mount
- 89-A-25-91-07-00A-520A-A, Mounting plate
- 89-A-11-00-01-00A-520A-A, Decals

2.1.2 With reference to Figures 21, 27, and 29 Wiring Diagram, remove the following C/As:

- 8G9B01B26701 (B1B267)
- 8G9B01B26901 (B1B269)
- 8G9B01A27301 (B1A273)
- 8G9B01A27101 (B1A271)
- 8G9B02B15301 (B2B153)

2.1.3 With reference to Figure 3 View H, remove the bond strap assy P/N 8G2591A03331 from the structure. Retain the hardware for later reuse.

2.1.4 With reference to Figure 3 View H, remove the connector support P/N 8G2591A01951 from the structure.

2.1.5 With reference to Figure 3 View L, remove the dummy connector from the structure.

NOTE

Sealant does not adhere well to un-painted surfaces of composite parts.
Therefore for edge sealing on un-painted composite parts, the area requiring sealing should first have the surface prepared by means of primer epoxy polyamide (C204).

2.1.6 With reference to Figure 2 View A, seal all joints and the periphery of the PTFE tapes (C405) by means of the Thixoflex Gray TG8498-50 (C347).

2.1.7 With reference to Figure 2 View A and Figure 3 View H, install the plinth assy P/N 8G2591A22031 on the structure by means of n°10 screws P/N A428A08C08. Seal the perimeter by means of sealing compound MC-780 (C465).

NOTE

Before bonding, prepare the surface as indicated in CSPP DM CSPP-A-20-10-12-00A-259A-D.

2.1.8 With reference to Figure 3 View H, install the bond strap assy P/N 8G2591A23031 by means of the screw P/N AN525-416R10, the washer P/N NAS1149D0463J, the nut P/N MS21042-4, and the existing hardware.

2.1.9 With reference to Figure 2 Section K-K, install the dummy connector P/N D38999/22CW on the structure by means of the connector mounting

device P/N M85049/95-14A-A, n°4 washers P/N NAS1149DN416J and n°4 screws P/N NAS1802-04-7.

2.1.10 With reference to Figure 2 Section K-K, install the dummy connector P/N M83723/61-118W on the structure by means of the connector mounting device P/N M85049/95-18A-A, n°4 washers P/N NAS1149DN416J and n°4 screws P/N NAS1802-04-7.

NOTE

Sealant does not adhere well to un-painted surfaces of composite parts.

Therefore for edge sealing on un-painted composite parts, the area requiring sealing should first have the surface prepared by locally applying primer epoxy polyamide (C204) waterborne chromate free primer to the area where the sealant will be applied, once the primer has dried, then the sealant can effectively be applied.

2.1.11 With reference to Figure 2 Section K-K, install the bond strap P/N 8G2591A23251 on the structure by means of adhesive EA9309.3NA Aereo (C100). Apply a fillet of sealing compound MC-780 (C465) all around.

2.1.12 With reference to Figure 4 View N, temporarily locate the cover hoist assy P/N 8G2580A51251 on the structure and countermark the cut-out profile.

2.1.13 With reference to Figure 4 View N, perform the cut-out thru the structure.

2.1.14 With reference to Figure 4 View M, apply the velcro on the structure by means of adhesion promoter 86A (C198).

2.1.15 With reference to Figure 4 View N, install the cover hoist assy P/N 8G2580A51251 on the structure.

2.1.16 With reference to Figure 4 View N, drill the hole Ø 3.12 ÷ 3.38 thru the structure and the bond strap P/N 8G2591A23251.

2.1.17 With reference to Figure 4 View N, temporarily locate the dummy connector P/N D38999/22DW on the cover hoist assy P/N 8G2580A51251 and countermark n°4 hole positions.

2.1.18 With reference to Figure 4 View N, drill n°4 holes Ø 3.12 ÷ 3.38 thru the cover and the structure.

NOTE

Before bonding, prepare the surface as indicated in CSPP DM CSPP-A-20-10-12-00A-259A-D.

2.1.19 With reference to Figure 2 Section K-K and Figure 4 View N, install the dummy connector P/N D38999/22DW on the cover hoist assy P/N 8G2580A51251 by means of connector mounting device P/N M85049/95-16A-A, n°4 washers P/N NAS1149DN416J and n°4 screws P/N NAS1802-04-7.

2.1.20 With reference to Figure 4 View N, install the cover P/N D38999/33W15R on the dummy connector P/N D38999/22DW.

2.1.21 With reference to Figure 5 Section D-D, drill n°2 hole Ø 3.12 ÷ 3.38 thru the longeron in accordance with dimensions shown.

2.1.22 With reference to Figure 5 Section D-D, install n°2 nut self-locking plate P/N MS21069L06 on the longeron by means of n°4 rivets P/N NAS1097AD3-4.

2.1.23 With reference to Figure 5 Section E-E, temporarily locate the support P/N A414A03V218A1 on the longeron and countermark n°2 hole positions.

2.1.24 With reference to Figure 5 Section E-E and Section F-F, drill n°2 holes Ø 5.16 ÷ 5.28, n°2 rivet holes, and n°1 hole Ø 9.0thru the longeron.

2.1.25 With reference to Figure 5 Section F-F, install n°2 nut self-locking plate P/N MS21069L3 on the longeron by means of n°4 rivets P/N NAS1097AD3-4.

NOTE

Before bonding, prepare the surface as indicated in CSPP DM CSPP-A-20-10-12-00A-259A-D.

2.1.26 With reference to Figure 5 Section E-E, install the support P/N A414A03V218A1 on the longeron by means of n°2 washers P/N NAS1149D0316K and n°2 screws P/N MS27039-1-07.

NOTE

Before bonding, prepare the surface as indicated in CSPP DM CSPP-A-20-10-12-00A-259A-D.

2.1.27 With reference to Figure 5 Section F-F, install the terminal P/N A363A03 on the longeron by means of n°2 rivets P/N MS20426A3-6.

2.1.28 With reference to Figure 6 View C, drill n°4 insert holes Ø11.48÷11.61 thru the structure according to dimensions shown.

NOTE

Before bonding, prepare the surface as indicated in CSPP DM CSPP-A-20-10-12-00A-259A-D.

2.1.29 With reference to Figure 6 View C, install n°4 inserts P/N NAS1836-3-18M on the structure by means of adhesive EA934NA (C397).

NOTE

Perform the following step only if Part II of this Service Bulletin is not intended to be performed immediately after Part I.

2.1.30 With reference to Figure 6 View G, install the cover assy P/N 8G2591A23331 on the fuselage by means of n°6 screws P/N A428A08C08.

NOTE

Install the braided tubing P/N A582A as a protection against chafing where contact with the structure may occur. The tubing protection is not a substitute for good routing practice.

NOTE

Use the edging P/N A236A on the edges which are liable to cause damage to the cable assemblies or where abrasion may occur.

NOTE

When necessary replace existing clamp with suitable clamp.

NOTE

Apply corrosion preventive compound Ardrox 3204 (C564) on connectors, dummy connectors, back-shells or on any metallic accessory.

NOTE

Primary supporting devices shall be of adequate size in order to hold the wires (harnesses) in place without damaging the wires insulation or degrading the performance of optical or RF cables. If a clamp is too large to properly grip the harness and the next smaller size would crush the harness, tapes type 67N19X15M-0 (or equivalent) may be used to provide a proper fit in the clamp or as filler under the clamp. Build up with tape only to the point that the original clamp provides the necessary grip.

To ensure a proper installation, it is allowed to use:

- wires/harnesses clamps (diameter only) two dash greater or lesser than the nominal one;
- bolts (length only) two dash shorter or longer than the nominal one;
- screws (length only) two dash shorter or longer than the nominal one;
- washers (thickness only) two dash greater or lesser than the nominal one;
- spacers (length only) two dash shorter or longer than the nominal one.

2.2 With reference to Figures 7 thru 13 and to Figures 19 thru 36 wiring diagram perform the single hoist to foldable C/A inst. P/N 8G2591A27411 as described in the following procedure:

NOTE

Stow the wire marked as 3340-534-22G, connected to the pin “J” of the connector PL84P1.

NOTE

For the wire marked as 2591-108N-22G NOT remove the wire but disconnect ONLY the end connected to the pin “B” of the connector PL84P1 (refer to Figure 19).

2.2.1 With reference to Figures 19, 21, 23, 25, 27, 29, 31, and 33 Wiring Diagram “Was”, remove the C/A P/N 8G9A01B21501 (A1B215) and the C/A P/N B1B271 (B1B271) from the helicopter.

2.2.2 With reference to Figure 32 Wiring Diagram, assemble and lay down the single hoist to foldable C/A (A1A497) P/N 8G9A21A49701 on the existing routes unless otherwise indicated on the figures as described in the following procedure:

NOTE

It is allowed to reuse the electrical wire marked as "1099" from C/A A1A384 (P/N 8G2591A21611A1R).

2.2.2.1 With reference to Figure 32 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connectors A1P1 and J103.

2.2.2.2 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 32 Wiring Diagram, perform the electrical connections of the wire to the connectors A1P1 and J103.

2.2.2.3 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 32 Wiring Diagram, mark wire as 2591-1099-22G by means of marker sleeve.

2.2.2.4 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 32 Wiring Diagram, mark the so obtained cable assy as A1A497 by marker sleeve.

2.2.3 With reference to Figures 20, 22, 24 and 32 Wiring Diagram, assemble and lay down the single hoist to foldable C/A (A1B467) P/N 8G9A21B46701 as described in the following procedure:

2.2.3.1 With reference to Figure 32 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connector A2P1 and the splice SP1000.

2.2.3.2 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 32 Wiring Diagram, perform the electrical connections of the wire to the connector A2P1.

2.2.3.3 With reference to Figure 32 Wiring Diagram, perform the electrical connections of the wire to the splice SP1000 P/N M81824/1-1.

2.2.3.4 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 32 Wiring Diagram, mark wire as 2591-1096-22G by means of marker sleeve.

2.2.3.5 With reference to Figure 32 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connectors A2P2 and TB102P1.

2.2.3.6 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 32 Wiring Diagram, perform the electrical connections of the wire to the connectors A2P2 and TB102P1.

2.2.3.7 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 32 Wiring Diagram, mark wire as 2591-1094-22G by means of marker sleeve.

2.2.3.8 With reference to Figure 24 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connectors A60J1 and TB120P1.

2.2.3.9 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 24 Wiring Diagram, perform the electrical connections of the wire to the connectors A60J1 and TB120P1.

2.2.3.10 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 24 Wiring Diagram, mark wire as 2591-130-22G by means of marker sleeve.

2.2.3.11 With reference to Figure 32 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connectors P103 and TB102P1.

2.2.3.12 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 32 Wiring Diagram, perform the electrical connections of the wire to the connectors P103 and TB102P1.

2.2.3.13 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 32 Wiring Diagram, mark wire as 2591-1100-22G by means of marker sleeve.

2.2.3.14 With reference to Figure 32 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connector P103 and the splice SP1000.

2.2.3.15 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 32 Wiring Diagram, perform the electrical connections of the wire to the connector P103.

2.2.3.16 With reference to Figure 32 Wiring Diagram, perform the electrical connections of the wire to the previously installed splice SP1000.

2.2.3.17 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 32 Wiring Diagram, mark wire as 2591-1102-22G by means of marker sleeve.

2.2.3.18 With reference to Figure 24 Wiring Diagram, cut n°2 wires P/N A556A-T22 of adequate length and lay down between the connectors P103 and TB120P1.

2.2.3.19 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 24 Wiring Diagram, perform the electrical connections of the wires to the connectors P103 and TB120P1.

2.2.3.20 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 24 Wiring Diagram, mark wires as 2591-137-22G and 2591-138-22G by means of marker sleeve.

2.2.3.21 With reference to Figure 32 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connectors P111 and TB102P1.

2.2.3.22 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 32 Wiring Diagram, perform the electrical connections of the wire to the connectors P111 and TB102P1.

2.2.3.23 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 32 Wiring Diagram, mark wire as 2591-1106-22G by means of marker sleeve.

2.2.3.24 With reference to Figure 20 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connectors P112 and PL90P1.

2.2.3.25 With reference to Figure 20 Wiring Diagram, assemble the connector PL90P1 on the wire by means of the electrical connector P/N D38999/26JC35SN and the backshell P/N A529A400-1302T.

2.2.3.26 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 20 Wiring Diagram, perform the electrical connections of the wire to the connectors P112 and PL90P1.

2.2.3.27 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 20 Wiring Diagram, mark wire as 2591-105-22G by means of marker sleeve.

2.2.3.28 With reference to Figure 20 Wiring Diagram, cut n°2 wires P/N A556A-T22 of adequate length and lay down between the connectors PL90P1 and P116.

2.2.3.29 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 20 Wiring Diagram, perform the electrical connections of the wires to the connectors PL90P1 and P116.

2.2.3.30 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 20 Wiring Diagram, mark wires as 2591-100-22G and 2591-102-22G by means of marker sleeve.

2.2.3.31 With reference to Figure 20 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connectors PL90P1 and P103.

2.2.3.32 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 20 Wiring Diagram, perform the electrical connections of the wire to the connectors PL90P1 and P103.

2.2.3.33 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 20 Wiring Diagram, mark wire as 2591-101-22G by means of marker sleeve.

2.2.3.34 With reference to Figure 20 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connectors PL90P1 and P100.

2.2.3.35 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 20 Wiring Diagram, perform the electrical connections of the wire to the connectors PL90P1 and P100.

2.2.3.36 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 20 Wiring Diagram, mark wire as 2591-103-22G by means of marker sleeve.

2.2.3.37 With reference to Figure 20 Wiring Diagram, cut n°2 wires P/N A556A-T22 of adequate length and lay down between the connectors PL90P1 and P112.

2.2.3.38 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 20 Wiring Diagram, perform the electrical connections of the wires to the connectors PL90P1 and P112.

2.2.3.39 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 20 Wiring Diagram, mark wires as 2591-104-22G and 2591-106-22G by means of marker sleeve.

2.2.3.40 With reference to Figure 20 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connectors PL90P1 and TB162/3.

2.2.3.41 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 20 Wiring Diagram, perform the electrical connections of the wire to the connectors PL90P1 and TB162/3.

2.2.3.42 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 20 Wiring Diagram, mark wire as 2591-107-22G by means of marker sleeve.

2.2.3.43 With reference to Figure 20 Wiring Diagram, perform the electrical connection of the wire marked as 2591-108N-22G to the pin “2” of the connector PL90P1.

2.2.3.44 With reference to Figure 24 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connectors PL90P1 and TB120P1.

2.2.3.45 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 24 Wiring Diagram, perform the electrical connections of the wire to the connectors PL90P1 and TB120P1.

2.2.3.46 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 24 Wiring Diagram, mark wire as 2591-132-22G by means of marker sleeve.

2.2.3.47 With reference to Figure 22 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connectors Q2PA2 and P116.

2.2.3.48 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 22 Wiring Diagram, perform the electrical connections of the wire to the connectors Q2PA2 and P116.

2.2.3.49 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 22 Wiring Diagram, mark wire as 2591-1351-22G by means of marker sleeve.

2.2.3.50 With reference to Figure 32 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connector P116 and the splice SP1000.

2.2.3.51 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 32 Wiring Diagram, perform the electrical connections of the wire to the connector P116.

2.2.3.52 With reference to Figure 32 Wiring Diagram, perform the electrical connections of the wire to the previously installed splice SP1000.

2.2.3.53 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 32 Wiring Diagram, mark wire as 2591-1373-22G by means of marker sleeve.

2.2.3.54 With reference to Figure 32 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connectors TB102P1 and A60J1.

2.2.3.55 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 32 Wiring Diagram, perform the electrical connections of the wire to the connectors TB102P1 and A60J1.

2.2.3.56 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 32 Wiring Diagram, mark wire as 2591-1108-22G by means of marker sleeve.

2.2.3.57 With reference to Figure 32 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connectors TB102P1 and P116.

2.2.3.58 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 32 Wiring Diagram, perform the electrical connections of the wire to the connectors TB102P1 and P116.

2.2.3.59 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 32 Wiring Diagram, mark wire as 2591-1110-22G by means of marker sleeve.

2.2.3.60 With reference to Figure 24 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connectors TB120P1 and A60J1.

2.2.3.61 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 24 Wiring Diagram, perform the electrical connections of the wire to the connectors TB120P1 and A60J1.

2.2.3.62 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 24 Wiring Diagram, mark wire as 2591-129-22G by means of marker sleeve.

2.2.3.63 With reference to Figure 24 Wiring Diagram, cut n°2 wires P/N A556A-T22 of adequate length and lay down between the connectors TB120P1 and P116.

2.2.3.64 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 24 Wiring Diagram, perform the electrical connections of the wires to the connectors TB120P1 and P116.

2.2.3.65 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 24 Wiring Diagram, mark wires as 2591-133-22G and 2591-134-22G by means of marker sleeve.

2.2.3.66 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figures 20, 22, 24 and 32 Wiring Diagram, mark the so obtained cable assy as A1B467 by marker sleeve.

2.2.4 With reference to Figure 22 Wiring Diagram, assemble and lay down the single hoist foldable C/A (B1A451) P/N 8G9B21A45101 as described in the following procedure:

NOTE

It is allowed to reuse the electrical wire marked as "999" from C/A B1A451 (P/N 8G2591A21611A3R).

2.2.4.1 With reference to Figure 22 Wiring Diagram, cut the wire P/N A556A-T2 of adequate length and lay down between the hoist sensor S244 and the hoist contactor K2030.

2.2.4.2 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 22 Wiring Diagram, crimp on wire the related electrical contact as indicated in table.

2.2.4.3 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 22 Wiring Diagram, mark wire as 2591-999-2G by means of marker sleeve.

2.2.4.4 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 22 Wiring Diagram, mark the so obtained cable assy as B1A451 by marker sleeve.

2.2.5 With reference to Figure 22 Wiring Diagram, assemble and lay down the single hoist foldable C/A (B1A461) P/N 8G9B21B46101 as described in the following procedure:

2.2.5.1 With reference to Figure 22 Wiring Diagram, assemble the connector J2006 by means of the electrical connector P/N M85049/52-1-32W and the connector P/N MS3450W32-15S.

NOTE

It is allowed to reuse the electrical wire marked as "1004" from C/A B1B461 (P/N 8G2591A21611A3R).

2.2.5.2 With reference to Figure 22 Wiring Diagram, cut the wire P/N A556A-T2 of adequate length and lay down between the connector J2006 and the hoist contactor K2030.

2.2.5.3 With reference to Figure 22 Wiring Diagram, assemble the connector J2006 by means of the adapter P/N MS3348-0-2.

2.2.5.4 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 22 Wiring Diagram, perform the electrical connection of the wire to the connector J2006.

2.2.5.5 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 22 Wiring Diagram, crimp on wire the related electrical contact (K2030 side) as indicated in table.

2.2.5.6 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 22 Wiring Diagram, mark wire as 2591-1004-2G by means of marker sleeve.

2.2.5.7 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 22 Wiring Diagram, mark the so obtained cable assy as B1A461 by marker sleeve.

2.2.6 With reference to Figure 22 Wiring Diagram, assemble and lay down the single hoist foldable C/A (B1A460) P/N 8G9B21B46001 as described in the following procedure:

NOTE

It is allowed to reuse the electrical wire marked as "1003N" from C/A B1B460 (P/N 8G2591A21611A3R).

2.2.6.1 With reference to Figure 22 Wiring Diagram, cut the wire P/N A556A-T2 of adequate length and lay down between the ground stud GS274 and the connector J2006.

2.2.6.2 With reference to Figure 22 Wiring Diagram, assemble the connector J2006 by means of the adapter P/N MS3348-0-2.

2.2.6.3 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 22 Wiring Diagram, perform the electrical connection of the wire to the connector J2006.

2.2.6.4 In accordance with CSPP DM CSPP-A-20-10-02-00A-622A-D and with reference to Figure 22 Wiring Diagram, perform the electrical connection of the wire to the ground stud GS274.

2.2.6.5 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 22 Wiring Diagram, mark wire as 2591-1003N-2G by means of marker sleeve.

2.2.6.6 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 22 Wiring Diagram, mark the so obtained cable assy as B1B460 by marker sleeve.

2.2.7 With reference to Figure 35 Wiring Diagram, assemble the single hoist foldable C/A (B1B463) P/N 8G9B21B46301 as described in the following procedure:

2.2.7.1 With reference to Figure 35 Wiring Diagram, assemble the connector A202P3 by means of the connector P/N M83723/91W1814N, the electrical connector P/N A532A300-1802C and the adapter P/N A532A390-1802.

2.2.7.2 With reference to Figure 35 Wiring Diagram, assemble the connector J2016 by means of the connector P/N M83723/82W1412N, the electrical connector P/N A532A300-1402T and the adapter P/N A532A345-1402.

NOTE

It is allowed to reuse the electrical wire marked as "1137" from C/A B1B463 (P/N 8G2591A21611A3R).

2.2.7.3 With reference to Figure 35 Wiring Diagram, cut the wire P/N A560A-T3-16 of adequate length and lay down between the connector A202P3 and the connector J2016.

2.2.7.4 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 35 Wiring Diagram, perform the electrical connections of the wire to the connector A202P3 and the connector J2016.

2.2.7.5 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 35 Wiring Diagram, mark wire as 2591-1137-16S (WH, OR, BL) by means of marker sleeve.

NOTE

It is allowed to reuse the electrical wires marked as "1133", "1134", "1135" and "1136" from C/A B1B463 (P/N 8G2591A21611A3R).

2.2.7.6 With reference to Figure 35 Wiring Diagram, cut n°4 wires P/N A560A-T2-20 of adequate length and lay down between the connector A202P3 and the connector J2016.

2.2.7.7 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 35 Wiring Diagram, perform the electrical connections of the wires to the connector A202P3 and the connector J2016.

2.2.7.8 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 35 Wiring Diagram, mark wires as 2591-1133-20S (WH, BL), 2591-1134-20S (WH, BL), 2591-1135-20S (WH, BL) and 2591-1136-20S (WH, BL) by means of marker sleeve.

2.2.7.9 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 35 Wiring Diagram, mark the so obtained cable assy as B1B463 by marker sleeve.

2.2.8 With reference to Figure 36 Wiring Diagram, assemble and lay down the single hoist to foldable C/A (B1B584) P/N 8G9B21B58401 as described in the following procedure:

2.2.8.1 With reference to Figure 36 Wiring Diagram, assemble the connector P2002A by means of the connector P/N D38999/26JD35PN, the backshell P/N A532A400-1502C11 and the adapter P/N A529A490-1502.

2.2.8.2 With reference to Figure 36 Wiring Diagram, assemble the connector J2008 by means of the connector P/N D38999/20JD35SN and the backshell P/N A532A400-1502C11.

2.2.8.3 With reference to Figure 36 Wiring Diagram, cut n°4 wires P/N A556A-T22 of adequate length and lay down between the connector P2002A and the connector J2008.

2.2.8.4 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 36 Wiring Diagram, perform the electrical connections of the wires to the connector P2002A and the connector J2008.

2.2.8.5 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 36 Wiring Diagram, mark wires as 2591-1368-22G, 2591-1369-22G, 2591-1370-22G and 2591-1371-22G by means of marker sleeve.

2.2.8.6 With reference to Figure 36 Wiring Diagram, cut n°2 wires P/N A560A-T2-22 of adequate length and lay down between the connector P2002A and the connector J2008.

2.2.8.7 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 36 Wiring Diagram, perform the electrical connections of the wires to the connector P2002A and the connector J2008.

2.2.8.8 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 36 Wiring Diagram, mark wires as 2591-1366-22G (WH, BL) and 2591-1367-22G (WH, BL) by means of marker sleeve.

2.2.8.9 With reference to Figure 36 Wiring Diagram, cut n°5 wires P/N A560A-T2-22 of adequate length and lay down between the connector P2002A and the connector J2008.

2.2.8.10 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 36 Wiring Diagram, perform the electrical connections of the wires to the connector P2002A and the connector J2008.

2.2.8.11 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 36 Wiring Diagram, mark wires as 2591-1361-22G (WH, BL), 2591-1362-22G (WH, BL), 2591-1363-22G (WH, BL), 2591-1364-22G (WH, BL) and 2591-1365-22G (WH, BL) by means of marker sleeve.

2.2.8.12 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 36 Wiring Diagram, mark the so obtained cable assy as B1B584 by marker sleeve.

2.2.9 With reference to Figures 22, 26, 28, 30, 34 and 35 Wiring Diagram, assemble and lay down the single hoist to foldable C/A (B1B585) P/N 8G9B21B58501 as described in the following procedure:

2.2.9.1 With reference to Figure 35 Wiring Diagram, assemble the connector A202P2 by means of the electrical connector P/N D38999/26JC35PN, the backshell P/N A529A400-1302T and the adapter P/N A529A490-1302.

2.2.9.2 With reference to Figure 35 Wiring Diagram, assemble the connector A202P3 by means of the electrical connector P/N M83723/91W1814N, the backshell P/N A532A300-1802C and the adapter P/N A532A390-1802.

2.2.9.3 With reference to Figure 22 Wiring Diagram, assemble the terminal board TB218 by means of the terminal board P/N A593A-H06.

NOTE

It is allowed to reuse the electrical wire marked as "1131" from C/A B1B462 (P/N 8G2591A21611A3R).

2.2.9.4 With reference to Figure 35 Wiring Diagram, cut the wire P/N A561A-T3-22 of adequate length and lay down between the connector A212J1 and the connector A202P2.

2.2.9.5 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 35 Wiring Diagram, perform the electrical connections of the wire to the connector A212J1 and the connector A202P2.

2.2.9.6 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 35 Wiring Diagram, mark wire as 2591-1131-22G (WH, BL and OR) by means of marker sleeve.

2.2.9.7 With reference to Figure 22 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connector J112 and the hoist sensor S244.

2.2.9.8 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 22 Wiring Diagram, perform the electrical connections of the wire to the connector J112.

2.2.9.9 In accordance with CSPP DM CSPP-A-20-10-02-00A-622A-D and with reference to Figure 22 Wiring Diagram, crimp on wire the related electrical contact (S244 side) as indicated in table.

2.2.9.10 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 22 Wiring Diagram, mark wire as 2591-120-22G by means of marker sleeve.

NOTE

It is allowed to reuse electrical wire marked as "1155" from C/A B1B462 (P/N 8G2591A21611A3R).

2.2.9.11 With reference to Figure 22 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connector J116 and the circuit breaker S246.

2.2.9.12 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 22 Wiring Diagram, perform the electrical connections of the wire to the connector J116.

2.2.9.13 In accordance with CSPP DM CSPP-A-20-10-02-00A-622A-D and with reference to Figure 22 Wiring Diagram, crimp on wire the related electrical contact (S246 side) as indicated in table.

NOTE

If used the wire “1155”, remark as “1352”.

2.2.9.14 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 22 Wiring Diagram, mark wire as 2591-1352-22G by means of marker sleeve.

2.2.9.15 With reference to Figure 26 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connector J116 and the connector K228P1.

2.2.9.16 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 26 Wiring Diagram, perform the electrical connections of the wire to the connector J116 and the connector K228P1.

2.2.9.17 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 26 Wiring Diagram, mark wire as 2591-1356-22G by means of marker sleeve.

NOTE

It is allowed to reuse the electrical wire marked as “1052” from B1B462 (P/N 8G2591A21611A3R).

2.2.9.18 With reference to Figure 26 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connector J116 and the connector TB200P1.

2.2.9.19 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 26 Wiring Diagram, perform the electrical connections of the wire to the connector J116 and the connector TB200P1.

NOTE

If used the wire as “1052”, remark as “151”.

2.2.9.20 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 26 Wiring Diagram, mark wire as 2591-151-22G by means of marker sleeve.

NOTE

It is allowed to reuse the electrical wire marked as "1030" from C/A B1B462 (P/N 8G2591A21611A3R).

2.2.9.21 With reference to Figure 26 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connector J116 and the connector A202P1.

2.2.9.22 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 26 Wiring Diagram, perform the electrical connections of the wire to the connector J116 and the connector A202P1.

NOTE

If used the wire as "1030", remark as "156".

2.2.9.23 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 26 Wiring Diagram, mark wire as 2591-156-22G by means of marker sleeve.

2.2.9.24 With reference to Figure 34 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connector J116 and the splice SP2124.

2.2.9.25 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 34 Wiring Diagram, perform the electrical connections of the wire to the connector J116.

2.2.9.26 With reference to Figure 34 Wiring Diagram, perform the electrical connections of the wire to the splice SP2124 P/N M81824/1-1.

2.2.9.27 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 34 Wiring Diagram, mark wire as 2591-204-22G by means of marker sleeve.

2.2.9.28 With reference to Figure 34 Wiring Diagram, cut the wire P/N A560A-T2-22 of adequate length and lay down between the connector J116 and the connector J2002.

2.2.9.29 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 34 Wiring Diagram, perform the electrical connections of the wire to the connector J116 and the connector J2002.

2.2.9.30 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 34 Wiring Diagram, mark wire as 2591-202-22G (WH and BL) by means of marker sleeve.

2.2.9.31 With reference to Figure 34 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connector J212 and the splice SP2124.

2.2.9.32 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 34 Wiring Diagram, perform the electrical connections of the wire to the connector J212

2.2.9.33 With reference to Figure 34 Wiring Diagram, perform the electrical connections of the wire to the previously installed splice SP2124.

2.2.9.34 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 34 Wiring Diagram, mark wire as 2591-1121-22G by means of marker sleeve.

2.2.9.35 With reference to Figure 22 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connector K2030P1 and the splice SP2327.

2.2.9.36 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 22 Wiring Diagram, perform the electrical connections of the wire to the connector K2030P1.

2.2.9.37 With reference to Figure 22 Wiring Diagram, perform the electrical connections of the wire to the splice SP2327 P/N M81824/1-1.

2.2.9.38 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 22 Wiring Diagram, mark wire as 2591-118-22G by means of marker sleeve.

2.2.9.39 With reference to Figure 28 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connector K228P1 and the connector TB200P1.

2.2.9.40 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 28 Wiring Diagram, perform the electrical connections of the wire to the connector K228P1 and the connector TB200P1.

2.2.9.41 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 28 Wiring Diagram, mark wire as 2591-162-22G by means of marker sleeve.

2.2.9.42 With reference to Figure 28 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connector K228P1 and the connector K232P1.

2.2.9.43 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 28 Wiring Diagram, perform the electrical

connections of the wire to the connector K228P1 and the connector K232P1.

2.2.9.44 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 28 Wiring Diagram, mark wire as 2591-167-22G by means of marker sleeve.

2.2.9.45 With reference to Figure 30 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connector K230P1 and the connector K234P1.

2.2.9.46 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 30 Wiring Diagram, perform the electrical connections of the wire to the connector K230P1 and the connector K232P1.

2.2.9.47 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 30 Wiring Diagram, mark wire as 2591-1372-22G by means of marker sleeve.

2.2.9.48 With reference to Figure 28 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connector K230P1 and the connector A202P2.

2.2.9.49 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 28 Wiring Diagram, perform the electrical connections of the wire to the connector K230P1 and the connector A202P2.

2.2.9.50 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 28 Wiring Diagram, mark wire as 2591-158-22G by means of marker sleeve.

2.2.9.51 With reference to Figure 30 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connector K230P1 and the splice SP2238.

2.2.9.52 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 30 Wiring Diagram, perform the electrical connections of the wire to the connector K230P1.

2.2.9.53 With reference to Figure 30 Wiring Diagram, perform the electrical connections of the wire to the splice SP2238 P/N M81824/1-1.

2.2.9.54 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 30 Wiring Diagram, mark wire as 2591-179-22G by means of marker sleeve.

2.2.9.55 With reference to Figure 28 Wiring Diagram, cut n°2 wires P/N A556A-T22 of adequate length and lay down between the connector K232P1 and the splice SP2112.

2.2.9.56 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 28 Wiring Diagram, perform the electrical connections of the wires to the connector K232P1.

2.2.9.57 With reference to Figure 28 Wiring Diagram, perform the electrical connections of the wires to the splice SP2112 P/N M81824/1-1.

2.2.9.58 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 28 Wiring Diagram, mark wires as 2591-1068-22G and 2591-1069-22G by means of marker sleeve.

2.2.9.59 With reference to Figure 28 Wiring Diagram, the wire P/N A556A-T22 of adequate length and lay down between the connector K232P1 and the connector TB200P1.

2.2.9.60 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 28 Wiring Diagram, perform the electrical connections of the wire to the connector K232P1 and the connector TB200P1.

2.2.9.61 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 28 Wiring Diagram, mark wire as 2591-172-22G by means of marker sleeve.

2.2.9.62 With reference to Figure 30 Wiring Diagram, cut n°2 wires P/N A556A-T22 of adequate length and lay down between the connector K234P1 and the splice SP2120.

2.2.9.63 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 30 Wiring Diagram, perform the electrical connections of the wires to the connector K234P1.

2.2.9.64 With reference to Figure 30 Wiring Diagram, perform the electrical connections of the wires to the splice SP2120 P/N M81824/1-1.

2.2.9.65 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 30 Wiring Diagram, mark wires as 2591-1090-22G and 2591-1091-22G by means of marker sleeve.

NOTE

It is allowed to reuse the electrical wire marked as "1000" from C/A B1B462 (P/N 8G2591A21611A3R).

2.2.9.66 With reference to Figure 22 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connector K2030P1 and the hoist sensor S244.

2.2.9.67 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 22 Wiring Diagram, perform the electrical connections of the wire to the connector K2030P1.

2.2.9.68 In accordance with CSPP DM CSPP-A-20-10-02-00A-622A-D and with reference to Figure 22 Wiring Diagram, crimp on wire the related electrical contact (S244 side) as indicated in table.

NOTE

If used the wire "1000", remark as "1375".

2.2.9.69 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 22 Wiring Diagram, mark wires as 2591-1375-22G by means of marker sleeve.

2.2.9.70 With reference to Figure 22 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the hoist sensor S244 and the splice SP2327.

2.2.9.71 In accordance with CSPP DM CSPP-A-20-10-02-00A-622A-D and with reference to Figure 22 Wiring Diagram, crimp on wire the related electrical contact (S244 side) as indicated in table.

2.2.9.72 With reference to Figure 22 Wiring Diagram, perform the electrical connections of the wire to the previously installed splice SP2327.

2.2.9.73 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 22 Wiring Diagram, mark wires as 2591-1376-22G by means of marker sleeve.

NOTE

It is allowed to reuse the electrical wire marked as "1158N" from C/A B1B462 (P/N 8G2591A21611A3R).

2.2.9.74 With reference to Figure 22 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the circuit breaker S246 and the terminal board TB218.

2.2.9.75 In accordance with CSPP DM CSPP-A-20-10-02-00A-622A-D and with reference to Figure 22 Wiring Diagram, crimp on wire the related electrical contact (S246 side) as indicated in table.

2.2.9.76 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 22 Wiring Diagram, perform the electrical connections of the wire to the terminal board TB218.

NOTE

If used the wire “1158N”, remark as “1353N”.

2.2.9.77 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 22 Wiring Diagram, mark wires as 2591-1353N-22G by means of marker sleeve.

NOTE

It is allowed to reuse the electrical wire marked as “1157” from C/A B1B462 (P/N 8G2591A21611A3R).

2.2.9.78 With reference to Figure 22 Wiring Diagram, cut the wire A556A-T16 of adequate length and lay down between the circuit breaker S246 and the connector A202P3.

2.2.9.79 In accordance with CSPP DM CSPP-A-20-10-02-00A-622A-D and with reference to Figure 22 Wiring Diagram, crimp on wire the related electrical contact (S246 side) as indicated in table.

2.2.9.80 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 22 Wiring Diagram, perform the electrical connections of the wire to the connector A202P3.

NOTE

If used the wire “1157”, remark as “1355”.

2.2.9.81 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 22 Wiring Diagram, mark wires as 2591-1355-16G by means of marker sleeve.

2.2.9.82 With reference to Figure 34 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connector J2002 and the splice SP2124.

2.2.9.83 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 34 Wiring Diagram, perform the electrical connections of the wire to the connector J2002.

2.2.9.84 With reference to Figure 34 Wiring Diagram, perform the electrical connections of the wire to the previously installed splice SP2124.

2.2.9.85 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 34 Wiring Diagram, mark wire as 2591-1120-22G by means of marker sleeve.

2.2.9.86 With reference to Figure 30 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connector K234P1 and the splice SP2238.

2.2.9.87 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 30 Wiring Diagram, perform the electrical connections of the wire to the connector K234P1 and the splice SP2238.

2.2.9.88 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 30 Wiring Diagram, mark wires as 2591-180-22G by means of marker sleeve.

2.2.9.89 With reference to Figure 30 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connector TB200P1 and the splice SP2238.

2.2.9.90 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 30 Wiring Diagram, perform the electrical connections of the wire to the connector TB200P1 and the splice SP2238.

2.2.9.91 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 30 Wiring Diagram, mark wires as 2591-185-22G by means of marker sleeve.

2.2.9.92 With reference to Figure 28 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connector TB200P1 and the connector K228P1.

2.2.9.93 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 28 Wiring Diagram, perform the electrical connections of the wire to the connector TB200P1 and the connector K228P1.

2.2.9.94 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 28 Wiring Diagram, mark wires as 2591-1358-22G by means of marker sleeve.

NOTE

It is allowed to reuse the electrical wire marked as "1067N" from C/A B1B462 (P/N 8G2591A21611A3R).

2.2.9.95 With reference to Figure 28 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connector TB208P1 and the splice SP2112.

2.2.9.96 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 28 Wiring Diagram, perform the electrical connections of the wire to the connector TB208P1.

2.2.9.97 With reference to Figure 28 Wiring Diagram, perform the electrical connections of the wire to the previously installed splice SP2112.

2.2.9.98 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 28 Wiring Diagram, mark wires as 2591-1067N-22G by means of marker sleeve.

NOTE

It is allowed to reuse the electrical wire marked as "1092N" from C/A B1B462 (P/N 8G2591A21611A3R).

2.2.9.99 With reference to Figure 30 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connector TB208P1 and the splice SP2120.

2.2.9.100 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 30 Wiring Diagram, perform the electrical connections of the wire to the connector TB208P1.

2.2.9.101 With reference to Figure 30 Wiring Diagram, perform the electrical connections of the wire to the previously installed splice SP2120.

2.2.9.102 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 30 Wiring Diagram, mark wires as 2591-1092N-22G by means of marker sleeve.

NOTE

It is allowed to reuse the electrical wire marked as "1159N" from C/A B1B462 (P/N 8G2591A21611A3R).

2.2.9.103 With reference to Figure 22 Wiring Diagram, cut the wire P/N A556A-T16 of adequate length and lay down between the terminal board TB218 and the connector A202P3.

2.2.9.104 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 22 Wiring Diagram, perform the electrical

connections of the wire to the terminal board TB218 and the connector A202P3.

2.2.9.105 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 22 Wiring Diagram, mark wires as 2591-1354N-16G by means of marker sleeve.

NOTE

If used the wire “1159N”, remark as “1354N”.

2.2.9.106 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figures 22, 26, 28, 30, 34 and 35 Wiring Diagram, mark the so obtained cable assy as B1B585 by marker sleeve.

2.2.10 With reference to Figures 28 and 30 Wiring Diagram, assemble and lay down the single hoist to foldable C/A (B2B300) P/N 8G9B22B30001 as described in the following procedure:

2.2.10.1 With reference to Figures 28 and 30 Wiring Diagram, assemble the connector J2014 by means of the connector P/N D38999/20JB98SN, the backshell P/N A529A400-1102T and the adaptor P/N A529A445-1102.

2.2.10.2 With reference to Figure 28 Wiring Diagram, cut the wire P/N A561A-T2-22 of adequate length and lay down between the relay K232P1 and the connector J2014.

2.2.10.3 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 28 Wiring Diagram, perform the electrical connections of the wire to the relay K232P1 and the connector J2014.

2.2.10.4 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 28 Wiring Diagram, mark wire as 2591-173-22S (WH, BL) by means of marker sleeve.

2.2.10.5 With reference to Figure 30 Wiring Diagram, cut the wire P/N A561A-T2-22 of adequate length and lay down between the relay K234P1 and the connector J2014.

2.2.10.6 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 30 Wiring Diagram, perform the electrical connections of the wire to the relay K234P1 and the connector J2014.

2.2.10.7 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 30 Wiring Diagram, mark wire as 2591-186-22S (WH, BL) by means of marker sleeve.

2.2.10.8 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figures 28 and 30 Wiring Diagram, mark the so obtained cable assy as B2B300 by marker sleeve.

2.2.11 With reference to Figure 34 Wiring Diagram, assemble and lay down the single hoist to foldable C/A (C1A383) P/N 8G9C21A38301 as described in the following procedure:

2.2.11.1 With reference to Figure 34 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connector U1PB and the connector J309.

2.2.11.2 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 34 Wiring Diagram, perform the electrical connections of the wire to the connector U1PB and the connector J309.

2.2.11.3 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 34 Wiring Diagram, mark wire as 2591-1125-22G by means of marker sleeve.

2.2.11.4 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 34 Wiring Diagram, mark the so obtained cable assy as C1A383 by marker sleeve.

2.2.12 With reference to Figure 34 Wiring Diagram, assemble and lay down the single hoist to foldable C/A (C1B363) P/N 8G9C21B36301 as described in the following procedure:

2.2.12.1 With reference to Figure 34 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connector P309 and the module TB300/1.

2.2.12.2 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 34 Wiring Diagram, perform the electrical connections of the wire to the connector P309 and the module TB300/1.

2.2.12.3 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 34 Wiring Diagram, mark wire as 2591-1124-22G by means of marker sleeve.

2.2.12.4 With reference to Figure 34 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connector P212 and the module TB300/1.

2.2.12.5 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 34 Wiring Diagram, perform the electrical connections of the wire to the connector P212 and the module TB300/1.

2.2.12.6 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 34 Wiring Diagram, mark wire as 2591-1122-22G by means of marker sleeve.

2.2.12.7 With reference to Figure 34 Wiring Diagram, cut the wire P/N A556A-T22 of adequate length and lay down between the connector U2PB and the module TB300/1.

2.2.12.8 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 34 Wiring Diagram, perform the electrical connections of the wire to the connector U2PB and the module TB300/1.

2.2.12.9 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 34 Wiring Diagram, mark wire as 2591-1123-22G by means of marker sleeve.

2.2.12.10 In accordance with CSPP DM CSPP-A-20-10-01-00A-691A-D and with reference to Figure 34 Wiring Diagram, mark the so obtained cable assy as C1B363 by marker sleeve.

2.2.13 With reference to Figure 37 Wiring Diagram, perform the electrical connection of the wire marked as 2591-053-22G to the pin “B” of the connector J116.

2.2.14 With reference to Figure 38 Wiring Diagram, perform the electrical connection of the wire marked as 2591-058-22G to the pin “T” of the connector J112.

2.2.15 With reference to Figure 38 Wiring Diagram, perform the electrical connection of the wire marked as 2591-061-22G to the pin “V” of the connector J112.

2.2.16 With reference to Figure 38 Wiring Diagram, perform the electrical connection of the wire marked as 2591-064-22G to the pin “HH” of the connector J112.

2.2.17 With reference to Figure 38 Wiring Diagram, perform the electrical connection of the wire marked as 2591-067-22G to the pin “c” of the connector J112.

2.2.18 With reference to Figure 38 Wiring Diagram, perform the electrical connection of the wire marked as 2591-070-22G to the pin “h” of the connector J112.

2.2.19 With reference to Figure 8 thru Figure 13, lay down the following cable assemblies on the existing routes unless otherwise indicated on the figures:

- 8G9B21B46501 single hoist foldable C/A (B1B465)
- 8G9B21B46601 single hoist foldable C/A (B1B466)

2.2.20 With reference to Figure 8 thru Figure 13, secure the cable assemblies laid down at the previous steps by means of the existing hardware and lacing cords.

2.2.21 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 10 View J and Figure 22 Wiring Diagram, perform the electrical connection of the C/A B1B465 to the PDU 2 A4 and the hoist sensor S244 side.

2.2.22 In accordance with CSPP DM CSPP-A-20-10-13-00A-622A-D and with reference to Figure 10 View J and Figure 22 Wiring Diagram, perform the electrical connection of the C/A B1B466 to the PDU 2 A4 and the circuit breaker S246 side.

2.2.23 With reference to Figure 11 View H, fix the connector J2014 by means of the flange P/N M85049/95-12A-A, n°4 washers P/N NAS1149DN416J and n°4 screws P/N NAS1802-04-7.

2.2.24 With reference to Figure 11 View H, fix the connector J2016 by means of the flange P/N M85049/95-14A-A, n°4 washers P/N NAS1149DN416J and n°4 screws P/N NAS1802-04-7.

2.2.25 With reference to Figure 11 View H, fix the connector J2008 by means of the flange P/N M85049/95-16A-A, n°4 washers P/N NAS1149DN416J and n°4 screws P/N NAS1802-04-8.

2.2.26 With reference to Figure 11 View H, fix the connector J2006 by means of the flange P/N M85049/95-32A-A, n°4 washers P/N NAS1149DN616J and n°4 screws P/N NAS1802-06-8.

2.2.27 With reference to Figure 11 View C, fix the connector J2002 by means of the flange P/N M85049/95-16A-A, n°4 washers P/N NAS1149DN416J and n°4 screws P/N NAS1802-04-6.

2.2.28 With reference to Figure 2 View A, install the cover plate P/N AW001SC02508AE and the connector mounting device P/N M85049/95-10A-A on the plinth assy P/N 8G2591A22031 by means of n°4 screws P/N NAS1802-04-8 and n°4 washers P/N NAS1149DN416J. Seal by means of sealing compound Proseal 890B2 (C153).

2.2.29 With reference to Figure 12 View D, install the cover P/N 667-312NF15R3 on the connector A212J1.

2.2.30 In accordance with AMP DM 89-A-11-00-01-00A-720A-A and with reference to Figure 9 View B, install the decal P/N ED300TB218 near the terminal board TB218.

2.2.31 In accordance with AMP DM 89-A-11-00-01-00A-720A-A and with reference to Figure 11 View C, install the decals P/N ED300J2008, P/N ED300J2014, P/N ED300J2016, and P/N ED300J2006 on the plinth assy P/N 8G2591A22031.

2.2.32 In accordance with AMP DM 89-A-11-00-01-00A-720A-A and with reference to Figure 11 View C, install the decal P/N ED300J2002 on the support P/N A414A03V218A1.

2.2.33 Perform a pin-to-pin continuity check of all the electrical connections made.

3. In accordance with AMP DM 89-A-06-41-00-00A-010A-A, re-install all external panels, internal panels and internal liners previously removed.
4. Return the helicopter to flight configuration and record for compliance with Part I of this Service Bulletin on the helicopter logbook.
5. Gain access to My Communications section on Leonardo WebPortal and compile the “Service Bulletin Application Communication”.
   As an alternative, send the attached compliance form to the following mail box:
   engineering.support.lhd@leonardo.com
   and (for North, Central and South America) also to:
   AWPC.Engineering.Support@leonardocompany.us

PART II

1. In accordance with AMP DM 89-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 89-A-06-41-00-00A-010A-A and with reference to Figures 14 thru 18, remove all external panels, internal panels and internal liners as required to gain access to the area affected by the installation and perform the hoist conv single to foldable retromod P/N 8G2591P02311:

NOTE

Before installation, remove soluble or non-soluble treatments or clean alocromed surfaces.

2.1 With reference to Figure 14, perform the single hoist to foldable equip. inst. P/N 8G2591A27311 as described in the following procedure:

2.1.1 In accordance with AMP DM 89-A-11-00-01-00A-520A-A and AMP DM 89-A-25-91-05-00A-520A-A, and with reference to Figure 14 View A, remove the panel PL84 P/N 3G2591V00152 and the relative decal.

2.1.2 In accordance with AMP DM 89-A-25-91-06-00A-520A-A and with reference to Figure 14 View C, remove the hoist control panel (A204) P/N 3G2591V02351 from the lining-panel.

2.1.3 With reference to Figure 14 View C, install the single hoist operator control panel blanked SW P/N 8G2591A22831 (A202) on the lining-panel. Connect the connectors A202P3, A202P2 and A202P1.

2.1.4 With reference to AMP DM 89-A-11-00-01-00A-520A-A remove the sensor S202 and relative fasteners and decals from the structure.

2.1.5 With reference to Figure 14 View A, remove n°2 blank plates P/N W002SC312A from the interseat console.

2.1.6 With reference to Figure 14 View A, install the swivel plate P/N 6F2500L00153 on the interseat console.

2.1.7 In accordance with AMP DM 89-B-25-91-06-00A-720A-A and with reference to Figure 14 View A, install the single hoist control panel P/N 8G2591A22931 on the swivel plate P/N 6F2500L00153. Connect the respective connectors.

2.1.8 With reference to Figure 14 View A, install the blanking plates P/N AW002SC311A and P/N AW002SC310A on the interseat console.

2.1.9 With reference to Figure 14 View B, install the circuit breaker P/N A616A1A20 on the structure by means of n°2 washers P/N NAS1149DN816J and n°2 screws P/N NAS1802-08-8.

2.1.10 With reference to Figure 14 View B, install the current sensor P/N 7236-1-150 on the structure by means of n°2 washers P/N NAS1149D0332J and n°2 screws P/N NAS1802-3-8.

2.1.11 With reference to Figure 22 Wiring Diagram, perform the electrical connections of the C/A B1A451 and C/A B1B465 to the hoist sensor S244 and the hoist contactor K2030.

2.1.12 With reference to Figure 22 Wiring Diagram, perform the electrical connections of the C/A B1B585 and C/A B1B466 to the hoist sensor S244 and the circuit breaker S246.

2.1.13 With reference to Figure 22 Wiring Diagram, perform the electrical connections of the C/A B1A461 to the hoist contactor K2030.

2.1.14 In accordance with AMP DM 89-A-11-00-01-00A-720A-A and with reference to Figure 14 View A, install the decal P/N ED300PL90 on the swivel plate P/N 6F2500L00153.

2.1.15 In accordance with AMP DM 89-A-11-00-01-00A-520A-A and AMP DM 89-A-11-00-01-00A-720A-A, and with reference to Figure 14 View B, replace the decal P/N ED300K226 with the decal P/N ED300K2030.

2.1.16 In accordance with AMP DM 89-A-11-00-01-00A-720A-A and with reference to Figure 14 View B, install the decals P/N ED300S246 and P/N ED300S244 on the structure.

NOTE

Unless otherwise specified and except for electrical bonding areas, in high level exposure zones, perform the installation of structural brackets and vendor components as follows:

- Apply a layer of sealing compound MC-780 (C465) on all faying surfaces.
- Wet assemble fixing fasteners by means of sealing compound MC-780 (C465) applied under the head and on the shank of fasteners. For fasteners with a specific torque value, jointing compound shall be

applied under the head only. (Not applicable to fasteners installed on click bonds);

- Apply a fillet all-around the mating surfaces boundary by means of sealing compound MC-780 (C465).

NOTE

Unless otherwise specified, in all level direct exposure zones and medium level indirect exposure zones, protect all removable fasteners that are not fully coated with polyurethane paint, using corrosion inhibitor Tectyl 891D (C385).

2.2 With reference to Figures 15 and 16, perform the single hoist foldable instl (Goodrich) P/N 8G2591A22511 as described in the following procedure:

NOTE

Perform the following step only if Part I of this SB has NOT been performed immediately before to Part II.

2.2.1 With reference to Figure 6 View G, remove the cover assy P/N 8G2591A23331 and the screws P/N A428A08C08 from the fuselage.

2.2.2 In accordance with AMP DM 89-B-25-91-05-00A-720A-A and with reference to Figure 16 Detail C, install the foldable hosit adapter P/N 8G2591A21851 on the fuselage by means of n°4 washers P/N MS20002C6, n°2 bolt P/N 8G2591A03251, and n°2 bolt P/N 8G2591A13351. Torque to 37.98 - 43.40 Nm and lock by means of lock wire P/N MS20995C41. Finally wire-lock the forward bolt pair together and the aft bolt pair together, use sleeve P/N B7444-1-1-10C over lock wire to protect adapter plate.

2.2.3 In accordance with AMP DM 89-B-25-91-02-00A-720A-A and with reference to Figure 15 View A and Figure 16 Section B-B and View D, install the single hoist P/N 8G2591A22631 on the foldable hosit adapter P/N 8G2591A21851 by means of n°6 washers P/N MS20002C6, n°6 special bolts P/N 8G2591A21951, n°6 washers P/N NAS1149C0663R, n°6 nuts P/N MS14144-6 and n°6 pins P/N MS24665-300. Torque tighten nut P/N MS14144-6 to 18.08 - 21.47 Nm to align cotter pin hole and install cotter pin.

2.2.4 After final installation of the hoist dressed assembly test the electrical bond between the hoist and primary structure.

NOTE

Relocate the "exit" decal (located above the window) to a new position compatible with the hoist control panel.

2.3 With reference to Figures 15 and 16, perform the single hoist foldable label instl. P/N 8G1130A37611 as described in the following procedure:

2.3.1 In accordance with AMP DM 89-A-11-00-01-00A-720A-A and with reference to Figure 17 View A, install the decals P/N AW002DBHC045E02I, P/N AW002DBHO057E02A, P/N AW002DBHO001E02C, and P/N AW002DBHC010E04I on the structure.

2.3.2 In accordance with AMP DM 89-A-11-00-01-00A-720A-A and with reference to Figure 17 View B, install the decal P/N AW002DBHO001E02C on the single hoist P/N 8G2591A22631.

2.3.3 In accordance with AMP DM 89-A-11-00-01-00A-720A-A and with reference to Figure 18 View D, install the decals P/N AW002DBHM050E02I and P/N AW002DBHR068E02I on the structure.

2.3.4 In accordance with AMP DM 89-A-11-00-01-00A-720A-A and with reference to Figure 18 View C, install the decals P/N AW002DBHR068E02I, P/N AW002DBHM050E02I, and P/N AW002DBHM050E02I on the structure.

NOTE

Depending on the aircraft colour scheme white tape P/N 999999999000000852 or black tape P/N 590220200 may be used as an alternative.

2.3.5 With reference to Figure 17 View E, with the hoist in the stowed position apply red 3M vinyl tape 471 P/N 900001857 to the hoist boom and support bracket.

3. In accordance with applicable steps of AMP DM 89-A-24-81-00-05A-752B-A, perform the ECDU configuration file – Load procedure.
4. In accordance with applicable steps of the AMP DM 89-A-46-21-00-00A-750A-A, install the relevant AMMC option file.
5. In accordance with applicable steps of the AMP DM 89-A-46-31-00-00A-750A-A, install the relevant CDS option file.

6. In accordance with applicable steps of the AMP DM 89-A-24-81-00-04A-752A-A, install the relevant REPU config table.
7. In accordance with Annex A, perform the Electro Magnetic Compatibility ATP.
8. In accordance with AMP DM 89-A-06-41-00-00A-010A-A, re-install all external panels, internal panels and internal liners previously removed.
9. In accordance with weight and balance changes, update the Chart A (see Rotorcraft Flight Manual, Part II, section 6).
10. Return the helicopter to flight configuration and record for compliance with Part II of this Service Bulletin on the helicopter logbook.
11. Gain access to My Communications section on Leonardo WebPortal and compile the “Service Bulletin Application Communication”.
    As an alternative, send the attached compliance form to the following mail box:
    engineering.support.lhd@leonardo.com
    and (for North, Central and South America) also to:
    AWPC.Engineering.Support@leonardocompany.us

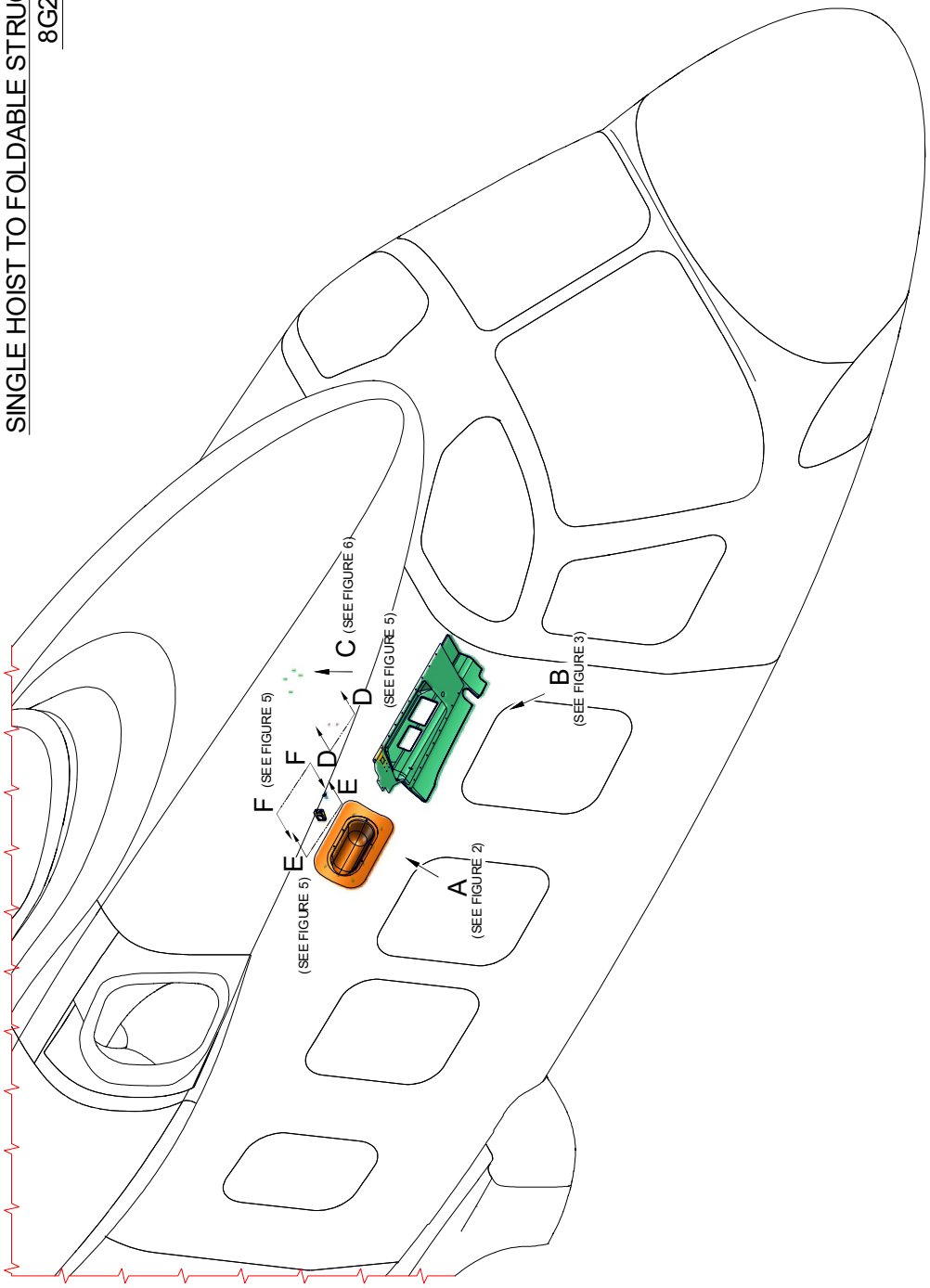
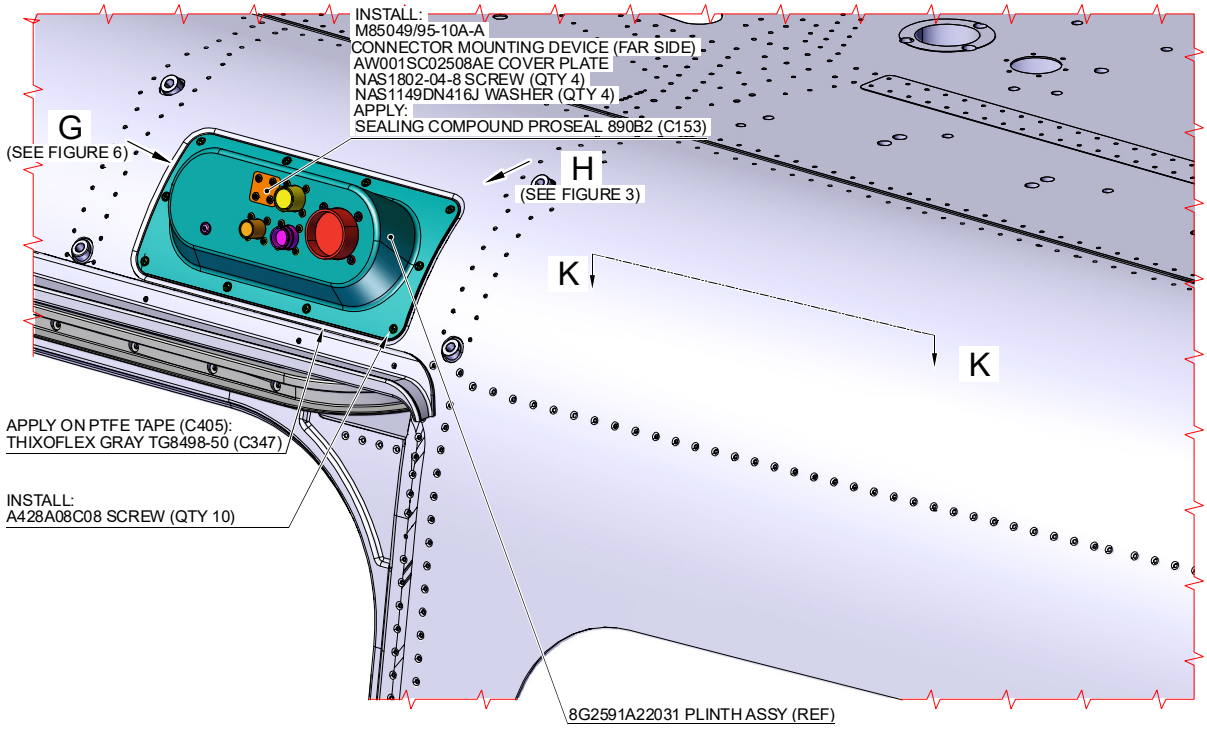
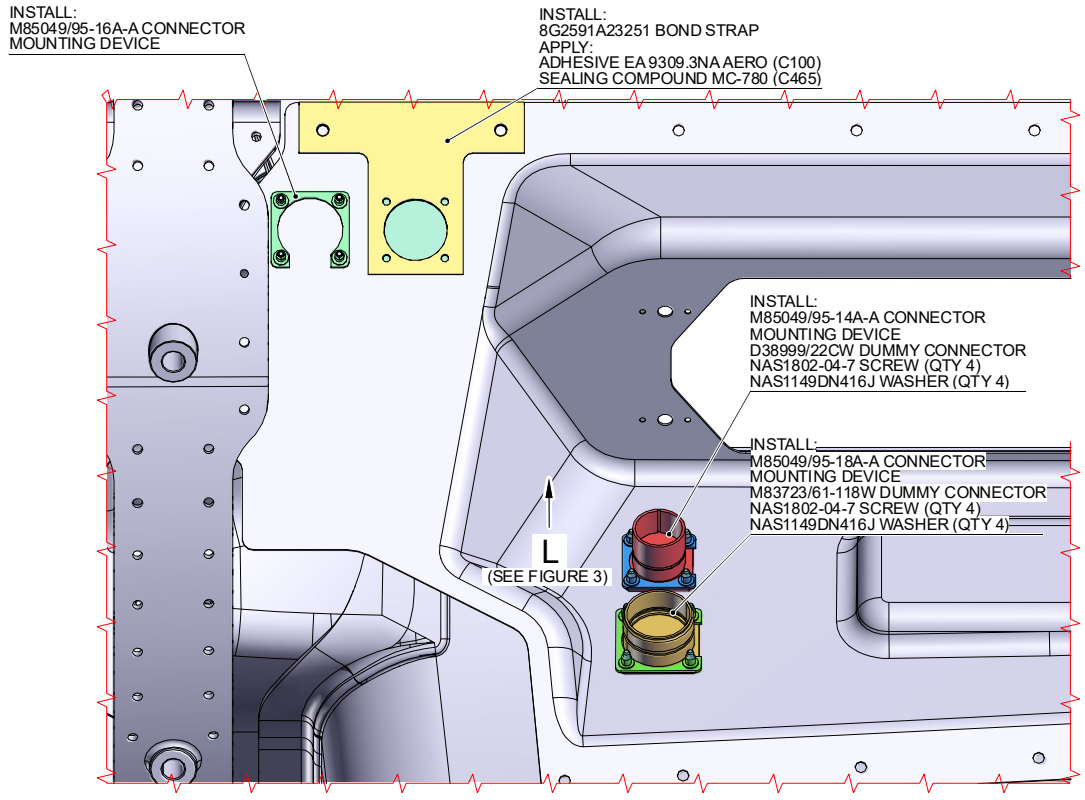

A
(SEE FIGURE 2)
B
(SEE FIGURE 3)
C
(SEE FIGURE 6)
D
(SEE FIGURE 5)
E
F
(SEE FIGURE 5)
E
F
(SEE FIGURE 5)
D

Figure 1



VIEW A

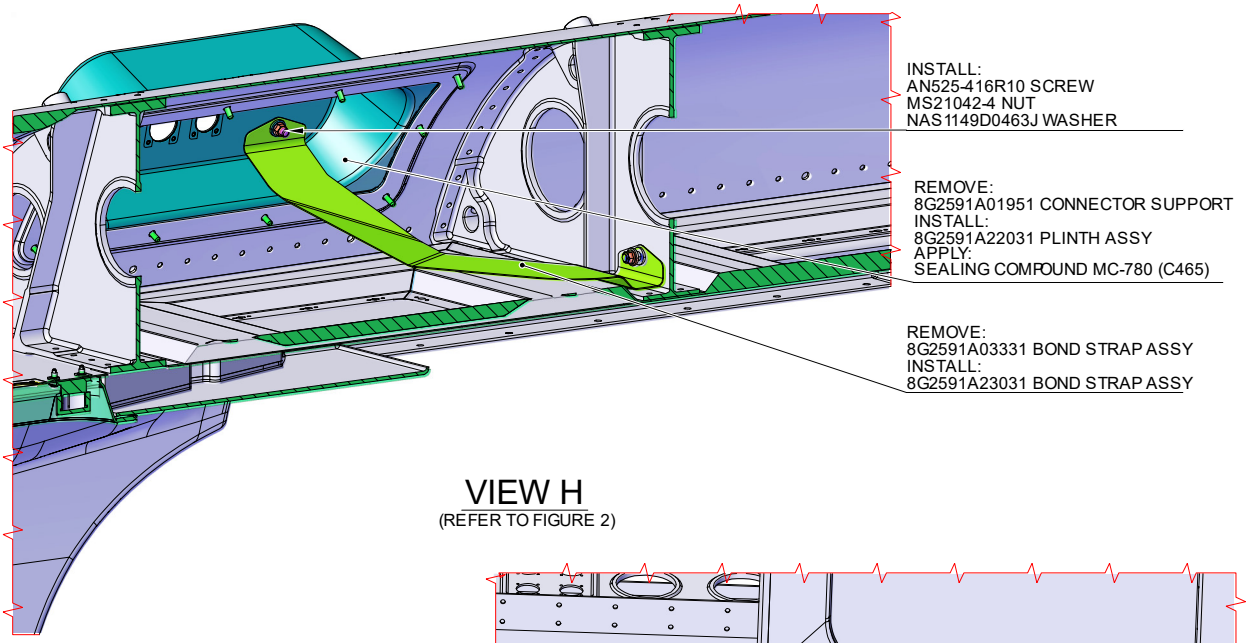
STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
(REFER TO FIGURE 1)



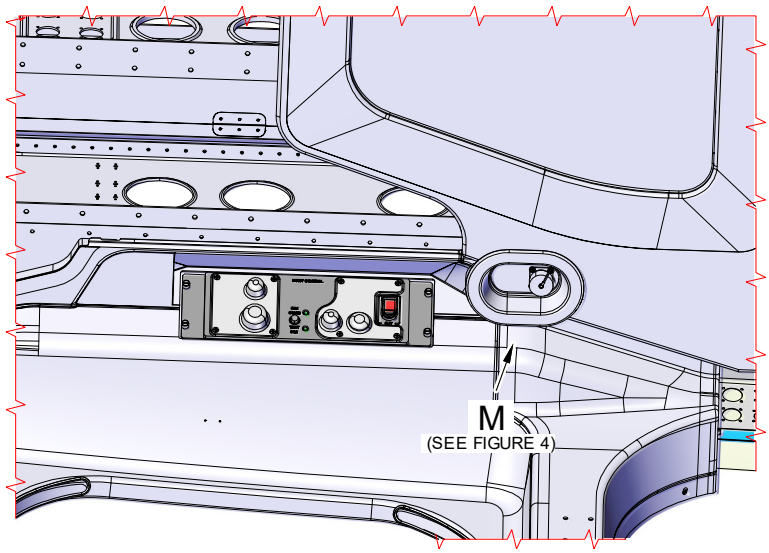
SECTION K-K

STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

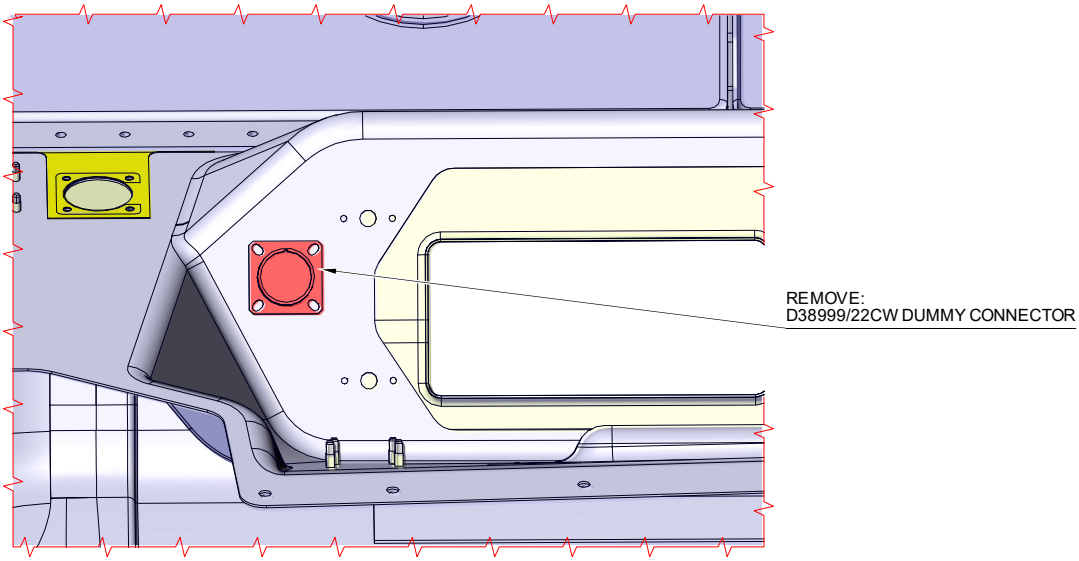
Figure 2



VIEW H
(REFER TO FIGURE 2)

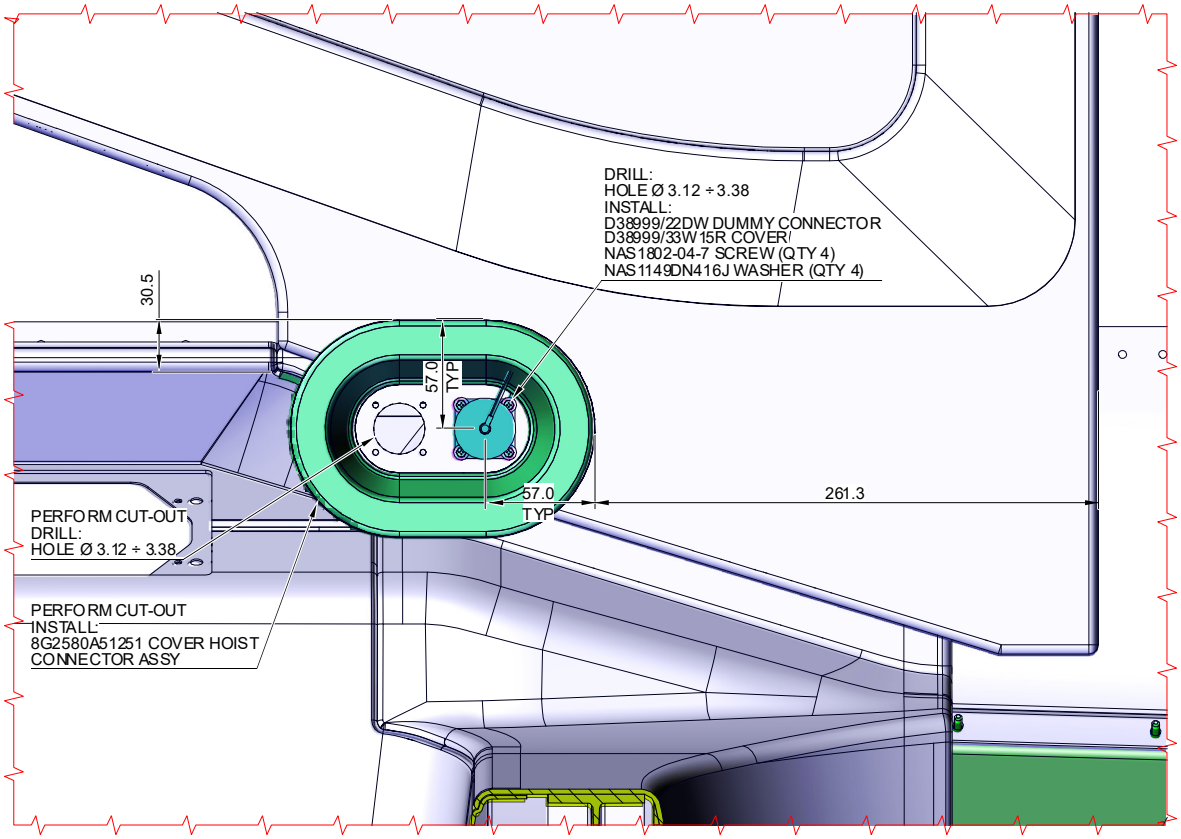


VIEW B
STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
(REFER TO FIGURE 1)

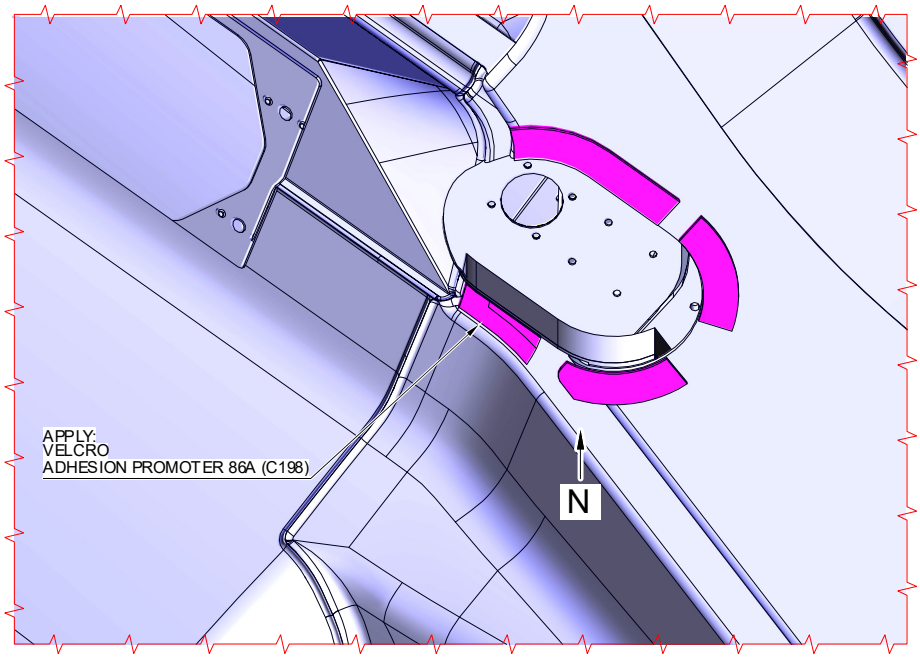


VIEW L
(REFER TO FIGURE 2)

Figure 3



VIEW N



VIEW M
(REFER TO FIGURE 3)

Figure 4

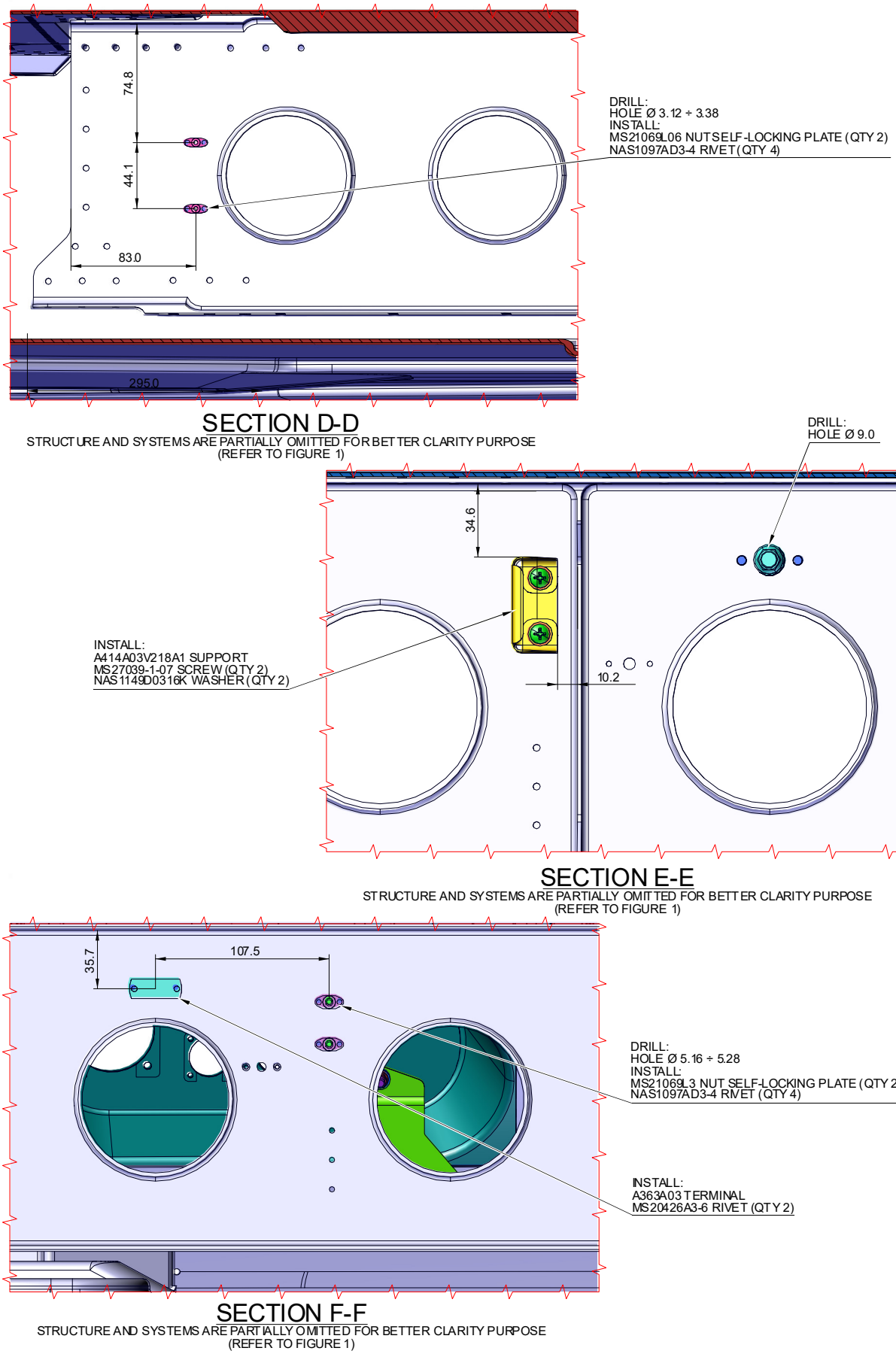
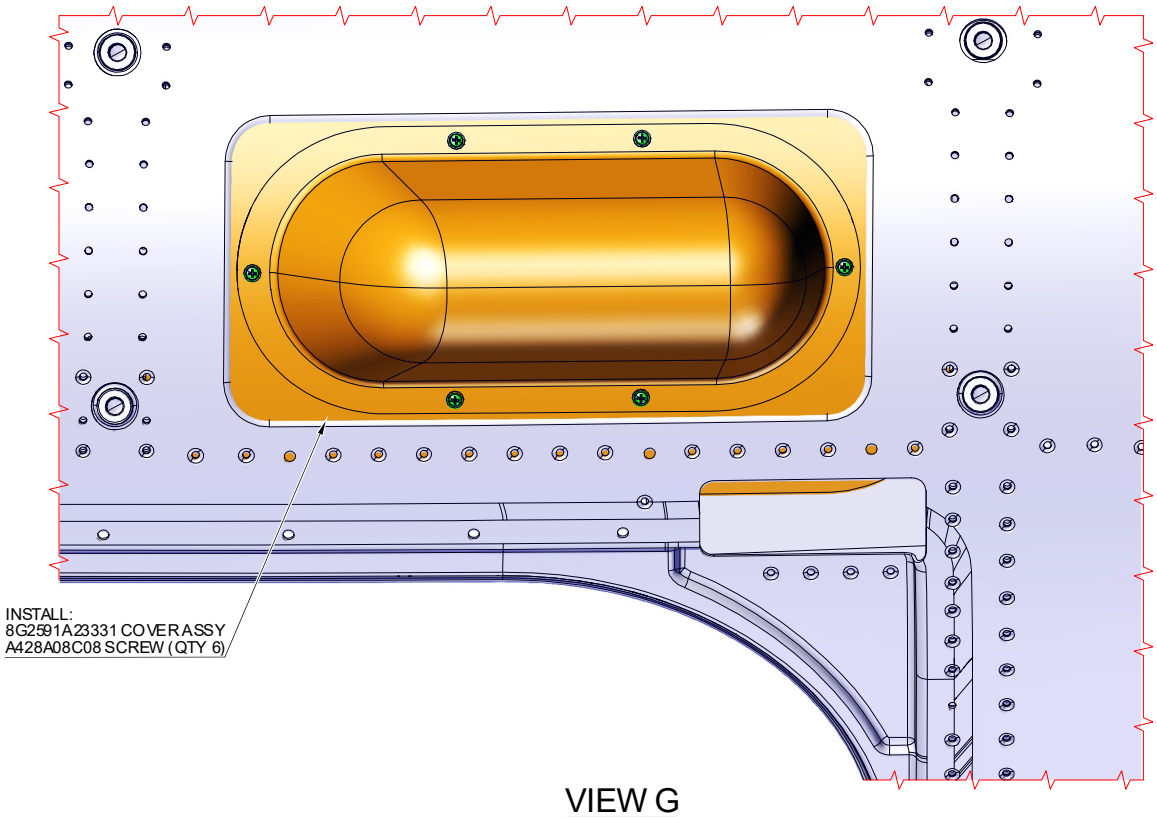
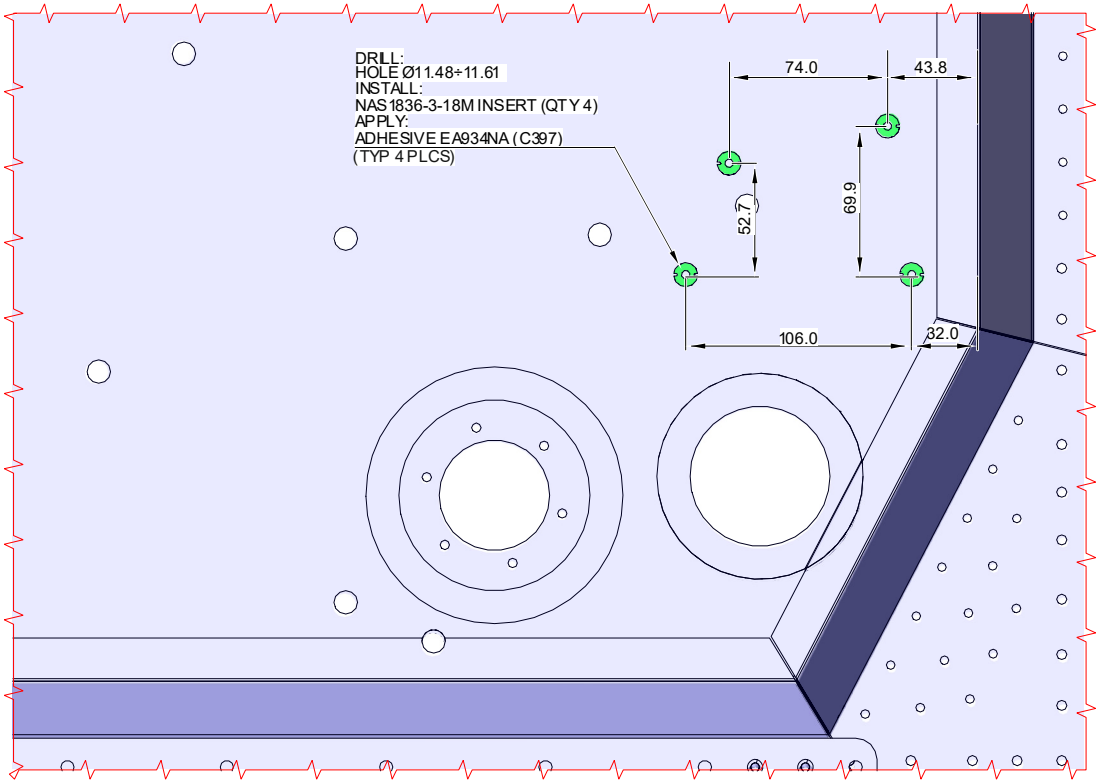

74.8
44.1
83.0
295.0
DRILL:
HOLE Ø 3.12 ÷ 3.38
INSTALL:
MS21069L06 NUT SELF-LOCKING PLATE (QTY 2)
NAS1097AD3-4 RIVET (QTY 4)
SECTION D-D
STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
(REFER TO FIGURE 1)
DRILL:
HOLE Ø 9.0
34.6
INSTALL:
A414A03V218A1 SUPPORT
MS27039-1-07 SCREW (QTY 2)
NAS1149D0316K WASHER (QTY 2)
10.2
SECTION E-E
STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
(REFER TO FIGURE 1)
35.7
107.5
DRILL:
HOLE Ø 5.16 ÷ 5.28
INSTALL:
MS21069L3 NUT SELF-LOCKING PLATE (QTY 2)
NAS1097AD3-4 RIVET (QTY 4)
INSTALL:
A363A03 TERMINAL
MS20426A3-6 RIVET (QTY 2)
SECTION F-F
STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
(REFER TO FIGURE 1)

Figure 5



VIEW G

STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
(REFER TO FIGURE 2)



VIEW C

STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
(REFER TO FIGURE 1)

Figure 6

SINGLE HOIST TO FOLDABLE C/A INST.
8G2591A27411

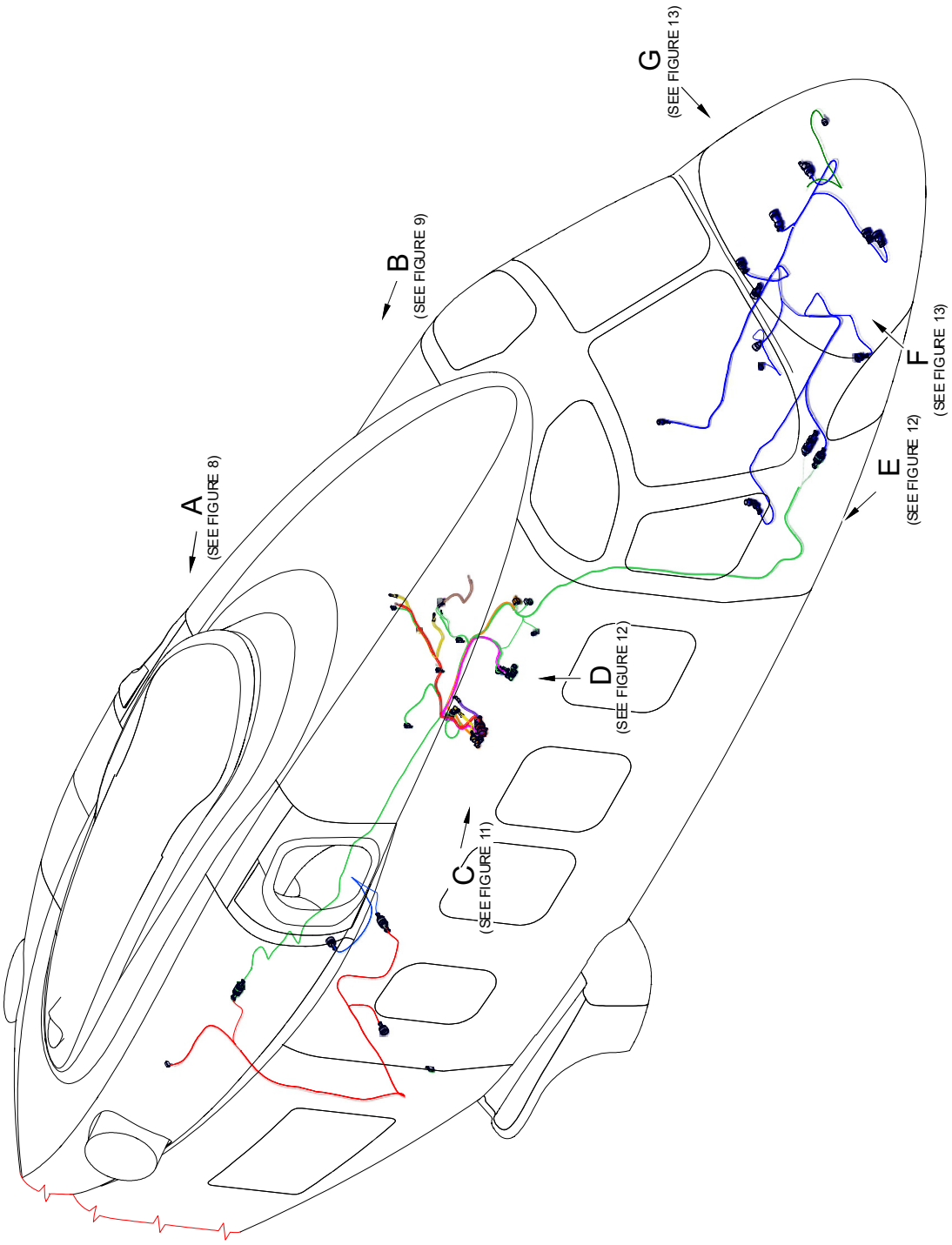


Figure 7

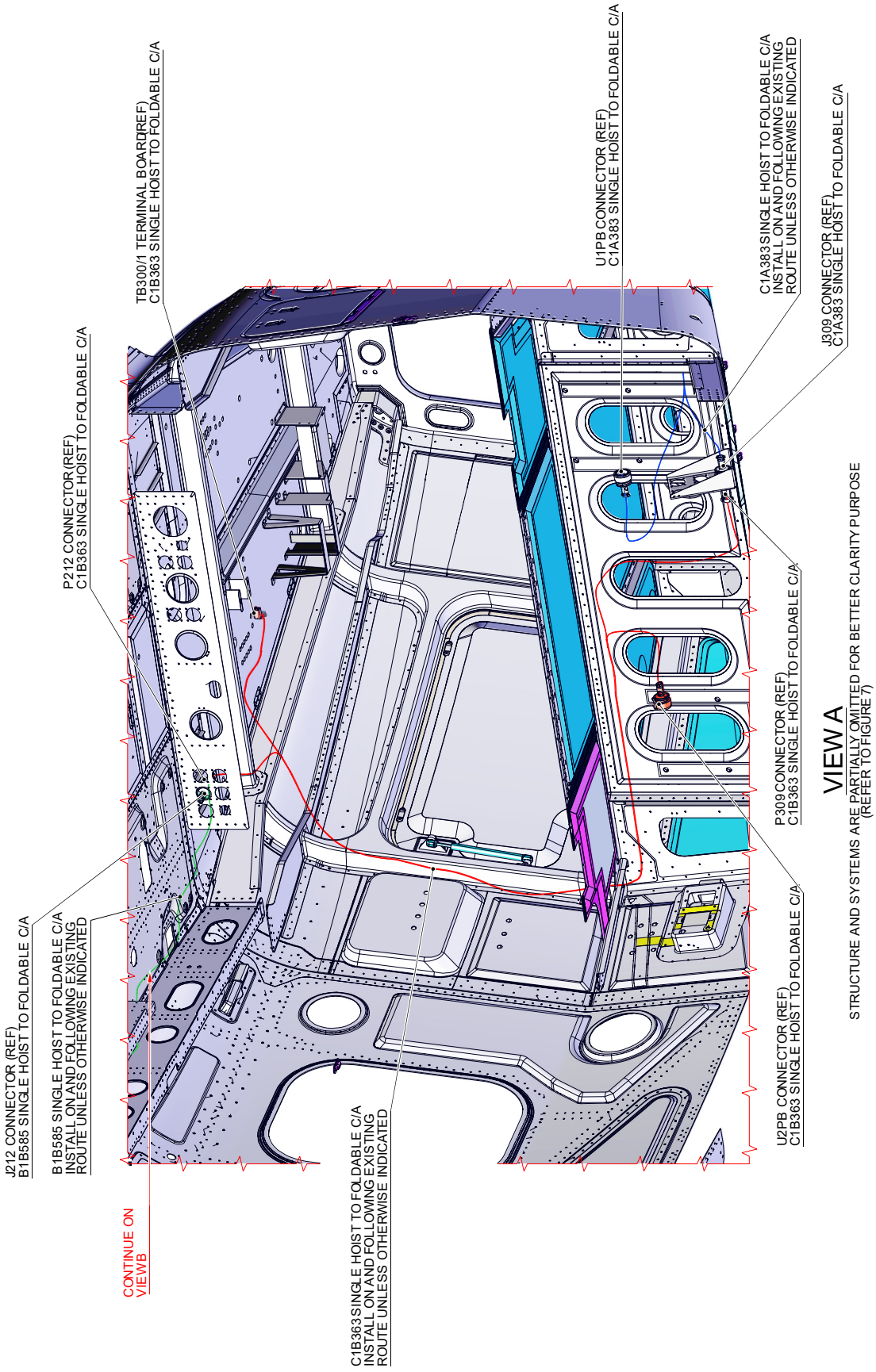

TB300/1 TERMINAL BOARD(REF)
C1B363 SINGLE HOIST TO FOLDABLE C/A
U1PB CONNECTOR (REF)
C1A383 SINGLE HOIST TO FOLDABLE C/A
C1A383 SINGLE HOIST TO FOLDABLE C/A
INSTALL ON AND FOLLOWING EXISTING
ROUTE UNLESS OTHERWISE INDICATED
J309 CONNECTOR (REF)
C1A383 SINGLE HOIST TO FOLDABLE C/A
P212 CONNECTOR (REF)
C1B363 SINGLE HOIST TO FOLDABLE C/A
P309 CONNECTOR (REF)
C1B363 SINGLE HOIST TO FOLDABLE C/A
J212 CONNECTOR (REF)
B1B585 SINGLE HOIST TO FOLDABLE C/A
B1B585 SINGLE HOIST TO FOLDABLE C/A
INSTALL ON AND FOLLOWING EXISTING
ROUTE UNLESS OTHERWISE INDICATED
U2PB CONNECTOR (REF)
C1B363 SINGLE HOIST TO FOLDABLE C/A
CONTINUE ON
VIEW B
C1B363 SINGLE HOIST TO FOLDABLE C/A
INSTALL ON AND FOLLOWING EXISTING
ROUTE UNLESS OTHERWISE INDICATED
VIEW A
STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
(REFER TO FIGURE 7)

Figure 8

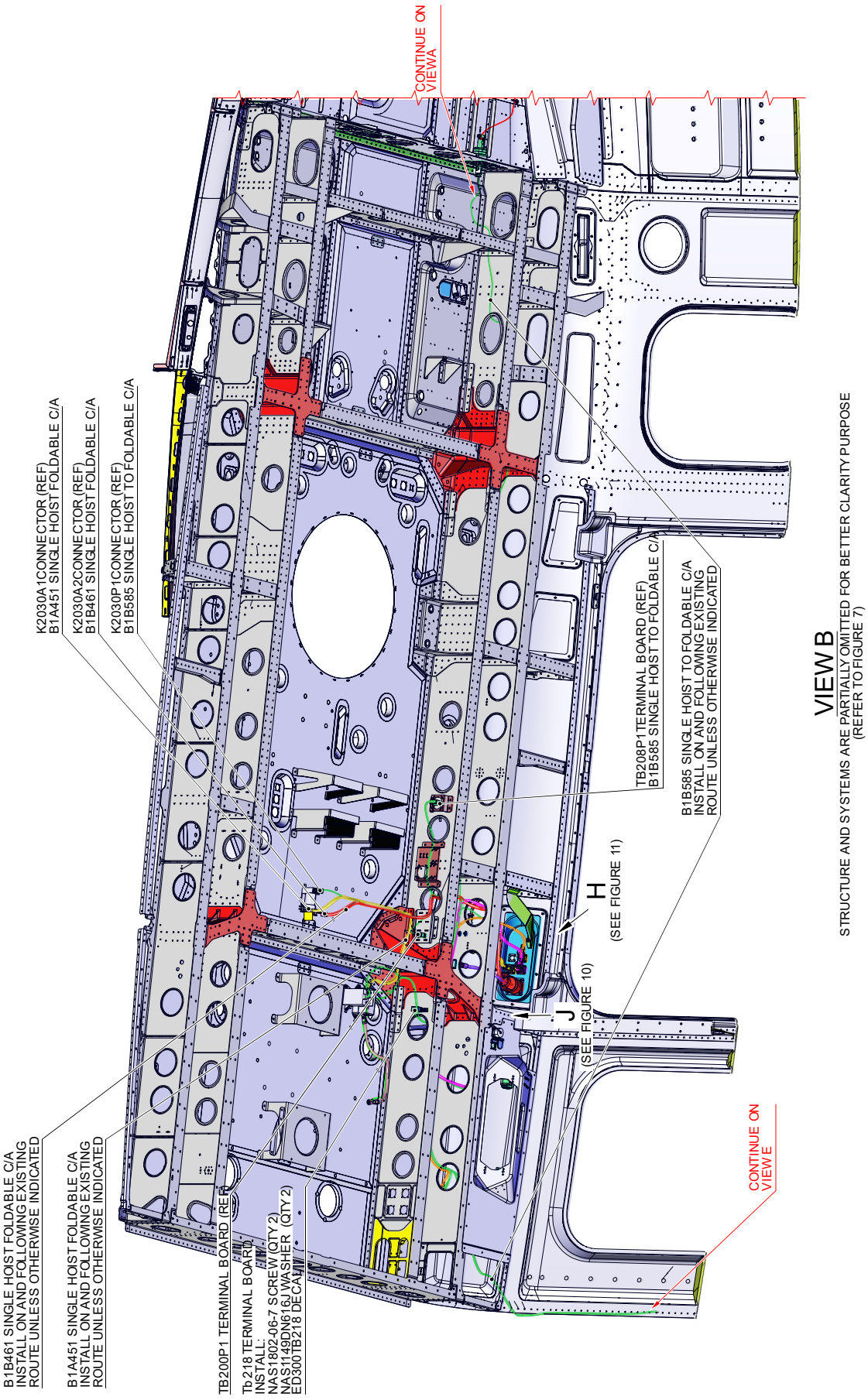

CONTINUE ON VIEW A
K2030A1 CONNECTOR (REF)
B1A451 SINGLE HOIST FOLDABLE C/A
K2030A2 CONNECTOR (REF)
B1B461 SINGLE HOIST FOLDABLE C/A
K2030P1 CONNECTOR (REF)
B1B585 SINGLE HOIST TO FOLDABLE C/A
TB208P1 TERMINAL BOARD (REF)
B1B585 SINGLE HOIST TO FOLDABLE C/A
B1B585 SINGLE HOIST TO FOLDABLE C/A
INSTALL ON AND FOLLOWING EXISTING
ROUTE UNLESS OTHERWISE INDICATED
H
(SEE FIGURE 11)
J
(SEE FIGURE 10)
VIEW B
STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
(REFER TO FIGURE 7)
CONTINUE ON VIEW E
B1B461 SINGLE HOIST FOLDABLE C/A
INSTALL ON AND FOLLOWING EXISTING
ROUTE UNLESS OTHERWISE INDICATED
B1A451 SINGLE HOIST FOLDABLE C/A
INSTALL ON AND FOLLOWING EXISTING
ROUTE UNLESS OTHERWISE INDICATED
TB200P1 TERMINAL BOARD (REF)
Tb218 TERMINAL BOARD
INSTALL:
NAS1802-06-7 SCREW (QTY 2)
NAS1149DN616J WASHER (QTY 2)
ED300TB218 DECAL

Figure 9

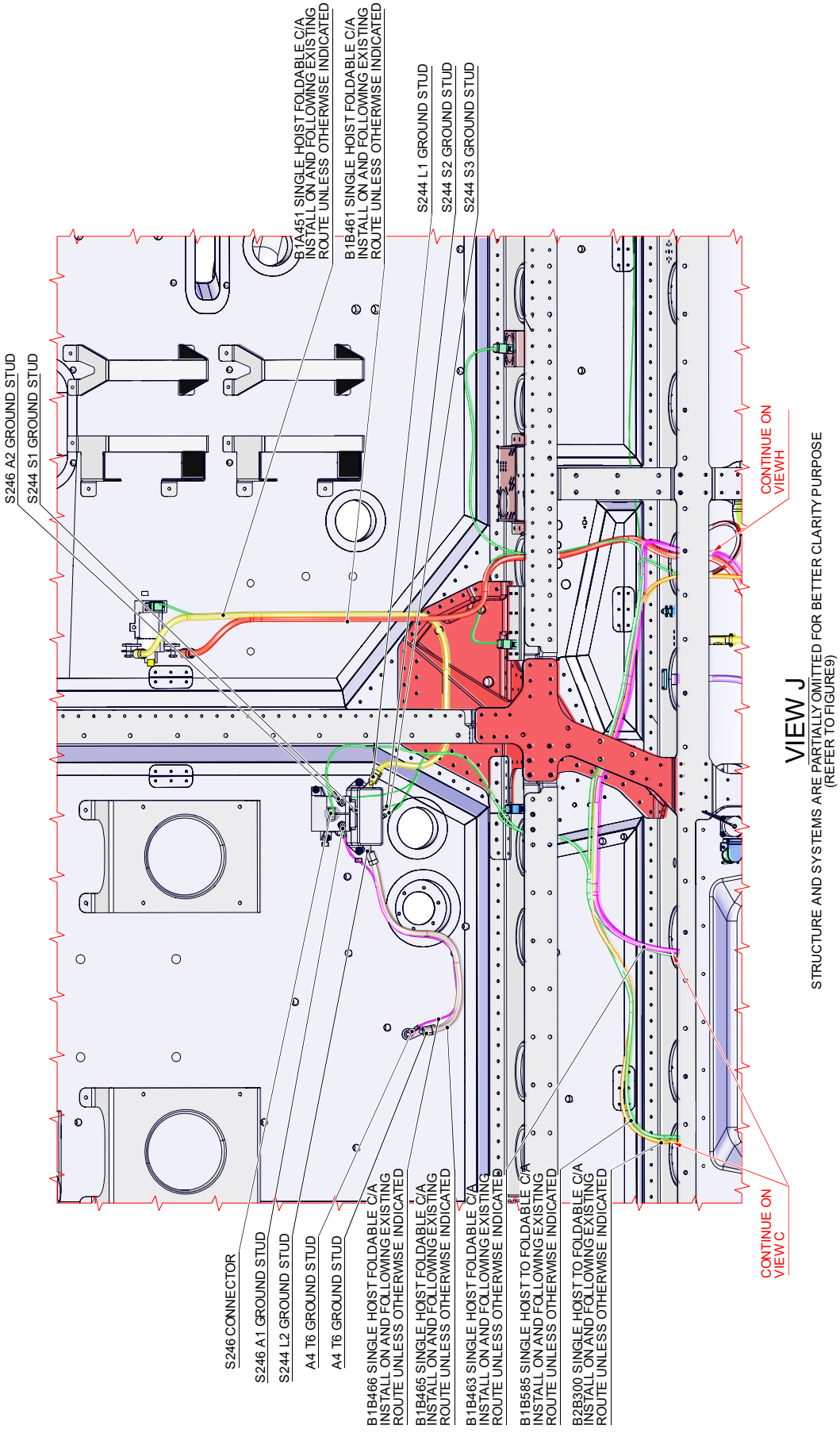
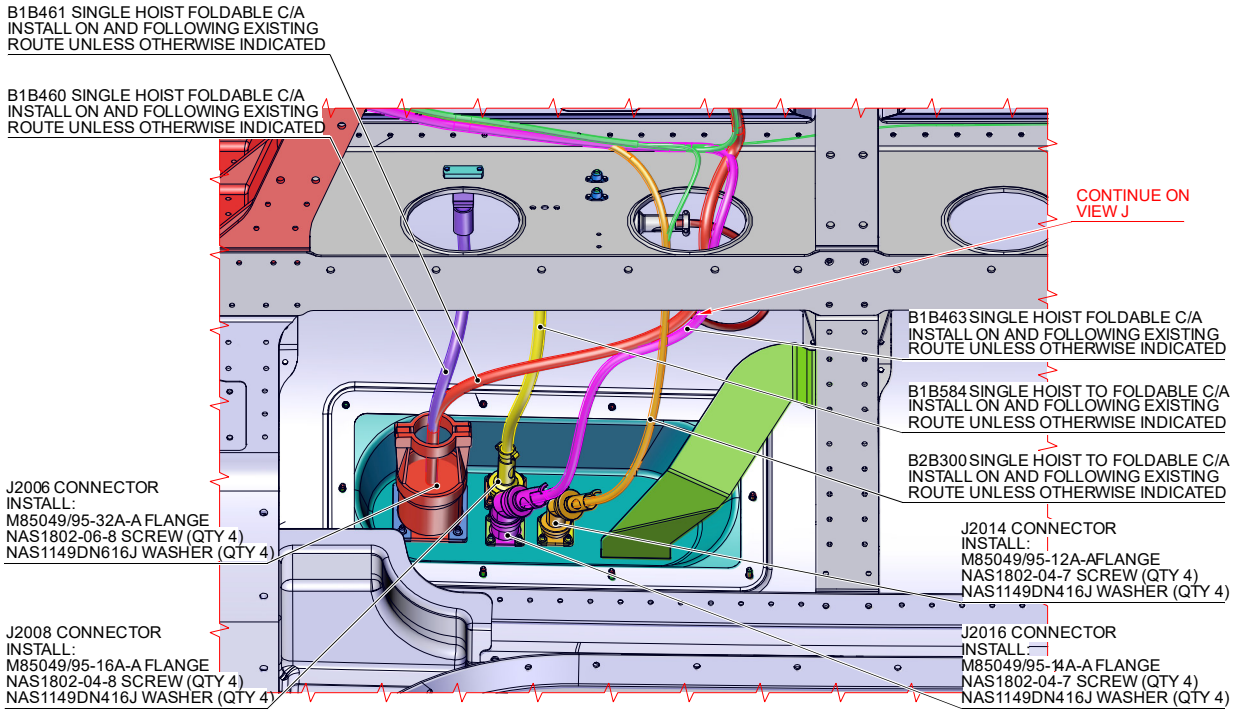
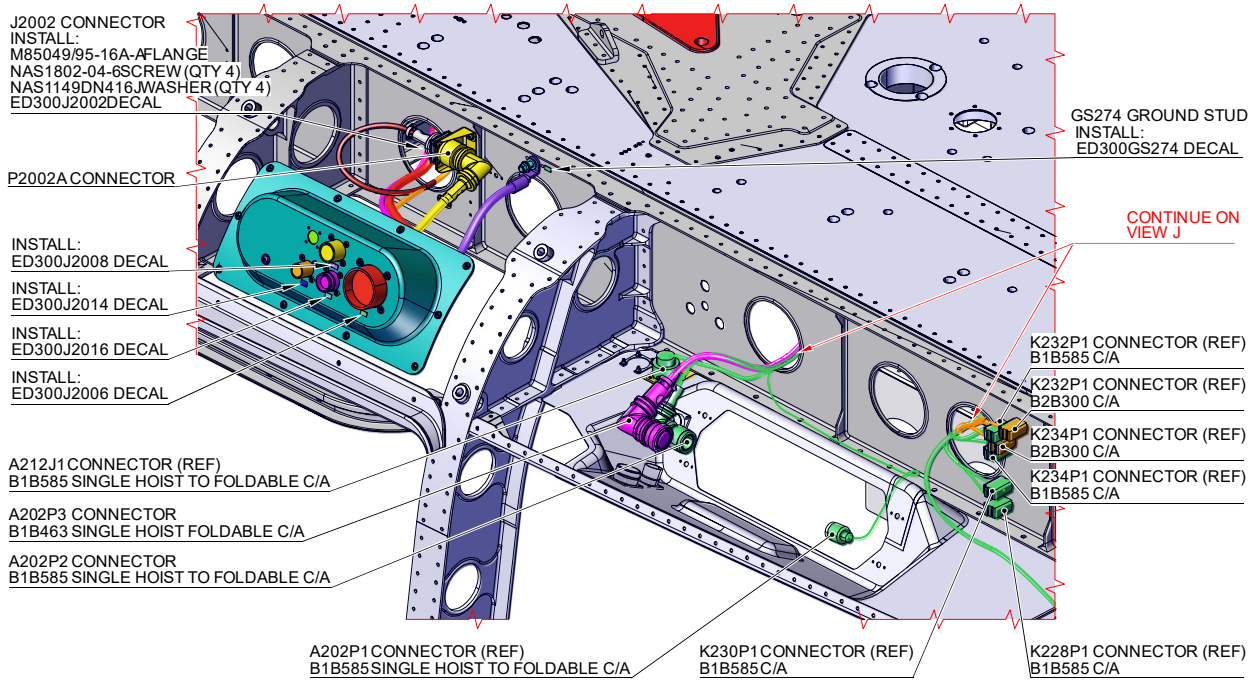

S246 A2 GROUND STUD
S244 S1 GROUND STUD
B1A451 SINGLE HOIST FOLDABLE C/A INSTALL ON AND FOLLOWING EXISTING ROUTE UNLESS OTHERWISE INDICATED
B1B461 SINGLE HOIST FOLDABLE C/A INSTALL ON AND FOLLOWING EXISTING ROUTE UNLESS OTHERWISE INDICATED
S244 L1 GROUND STUD
S244 S2 GROUND STUD
S244 S3 GROUND STUD
CONTINUE ON VIEW H
VIEW J
STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
(REFER TO FIGURE 9)
S246 CONNECTOR
S246 A1 GROUND STUD
S244 L2 GROUND STUD
A4 T6 GROUND STUD
A4 T6 GROUND STUD
B1B466 SINGLE HOIST FOLDABLE C/A INSTALL ON AND FOLLOWING EXISTING ROUTE UNLESS OTHERWISE INDICATED
B1B465 SINGLE HOIST FOLDABLE C/A INSTALL ON AND FOLLOWING EXISTING ROUTE UNLESS OTHERWISE INDICATED
B1B463 SINGLE HOIST FOLDABLE C/A INSTALL ON AND FOLLOWING EXISTING ROUTE UNLESS OTHERWISE INDICATED
B1B585 SINGLE HOIST TO FOLDABLE C/A INSTALL ON AND FOLLOWING EXISTING ROUTE UNLESS OTHERWISE INDICATED
B2B300 SINGLE HOIST TO FOLDABLE C/A INSTALL ON AND FOLLOWING EXISTING ROUTE UNLESS OTHERWISE INDICATED
CONTINUE ON VIEW C

Figure 10



VIEW H

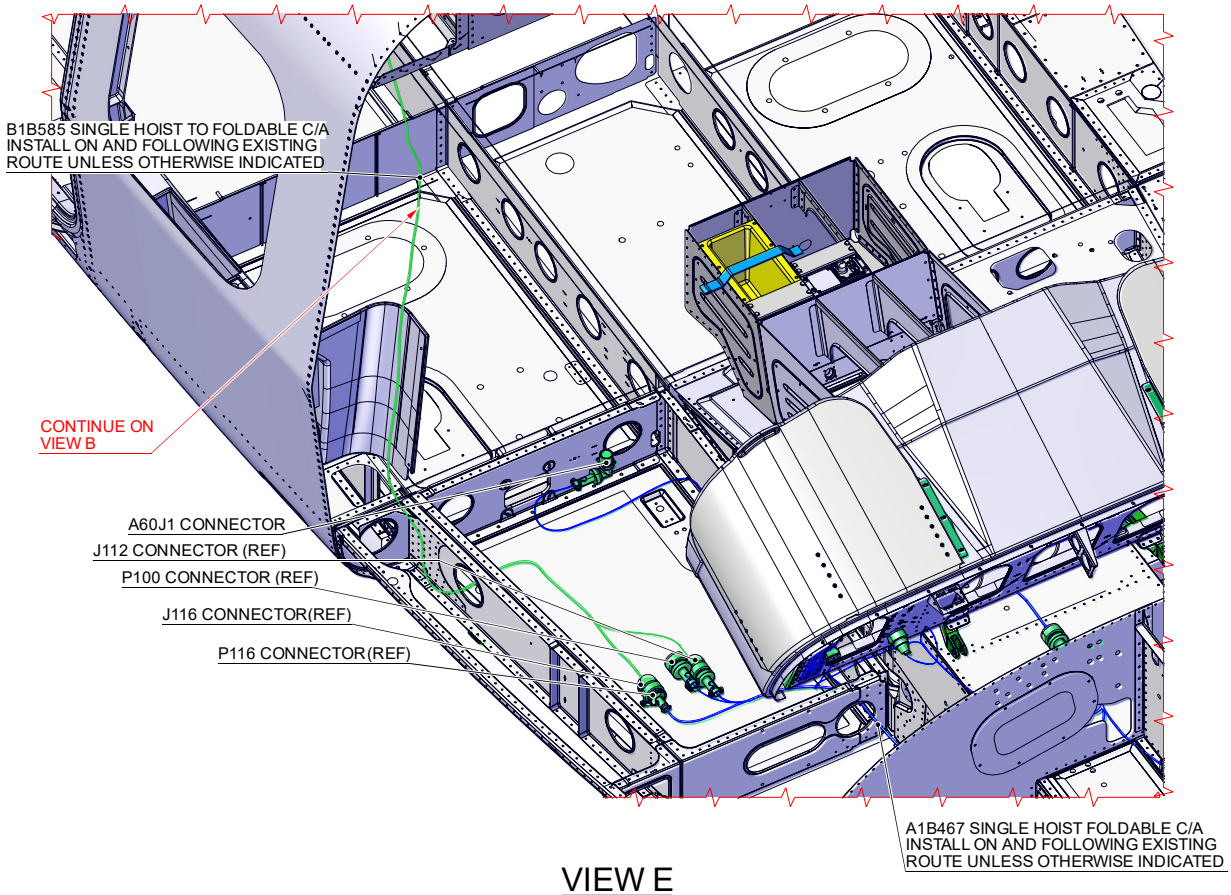
STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
(REFER TO FIGURE 7)



VIEW C

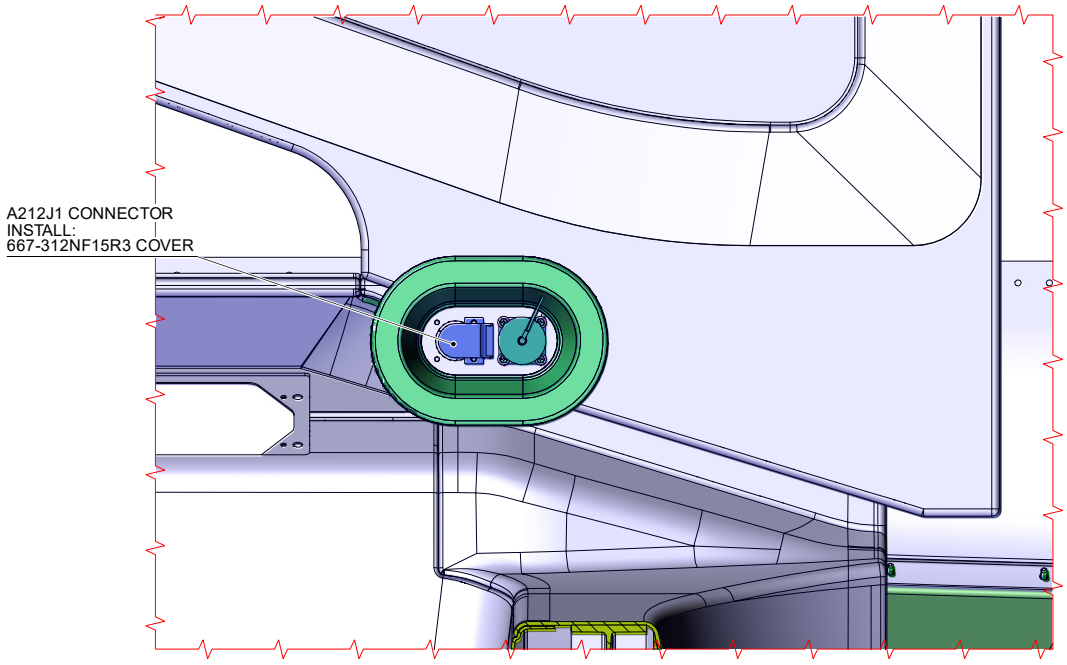
STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
(REFER TO FIGURE 7)

Figure 11



VIEW E

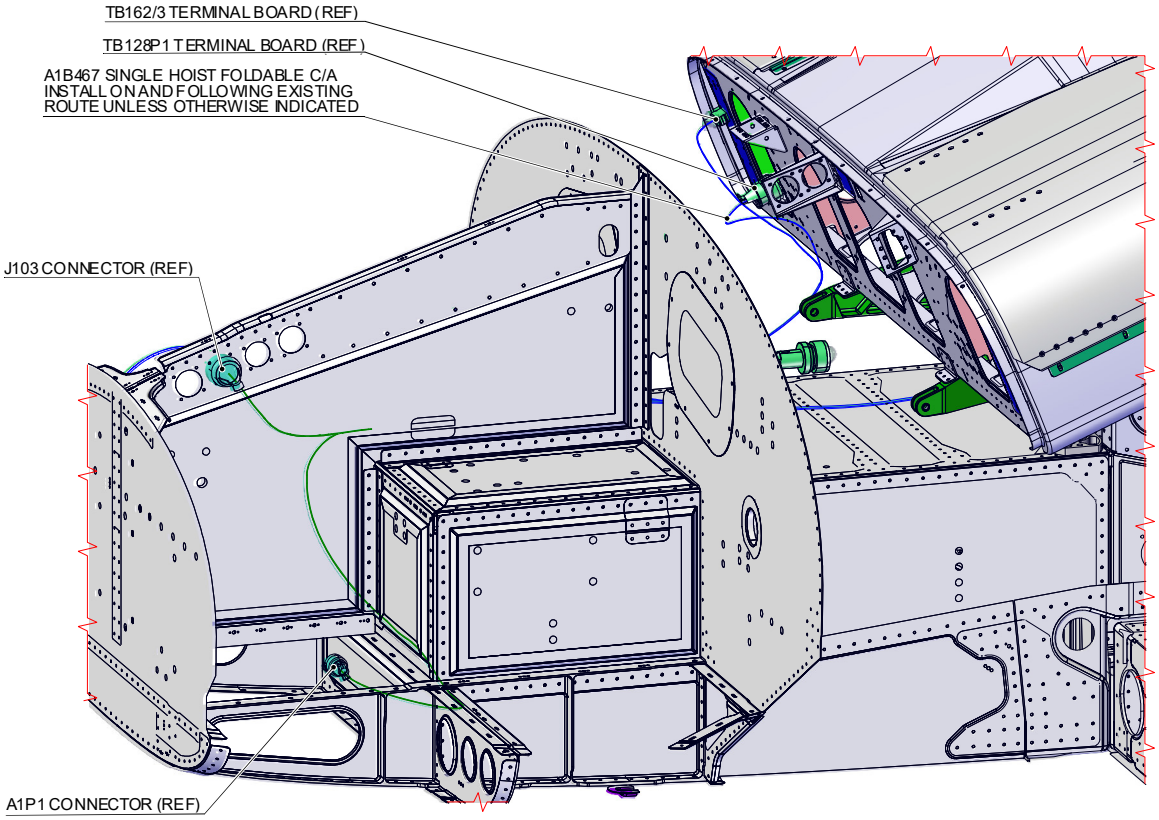
STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
(REFER TO FIGURE 7)



VIEW D

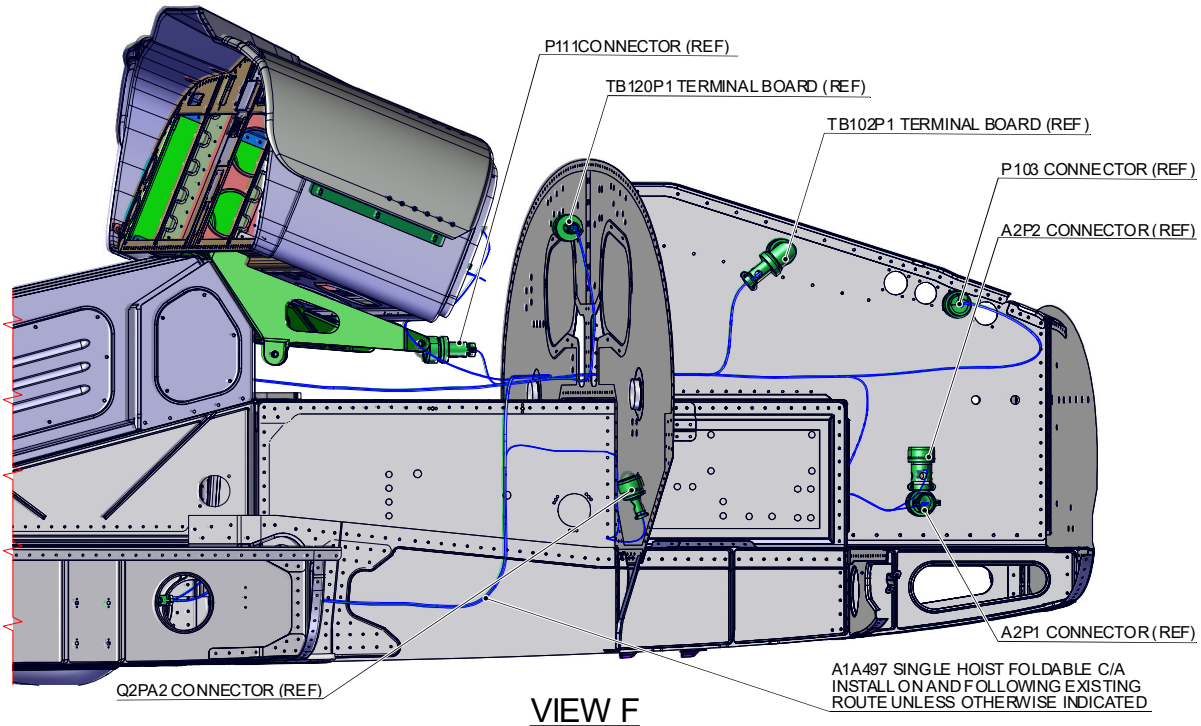
STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
(REFER TO FIGURE 7)

Figure 12



VIEW G

STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
(REFER TO FIGURE 7)

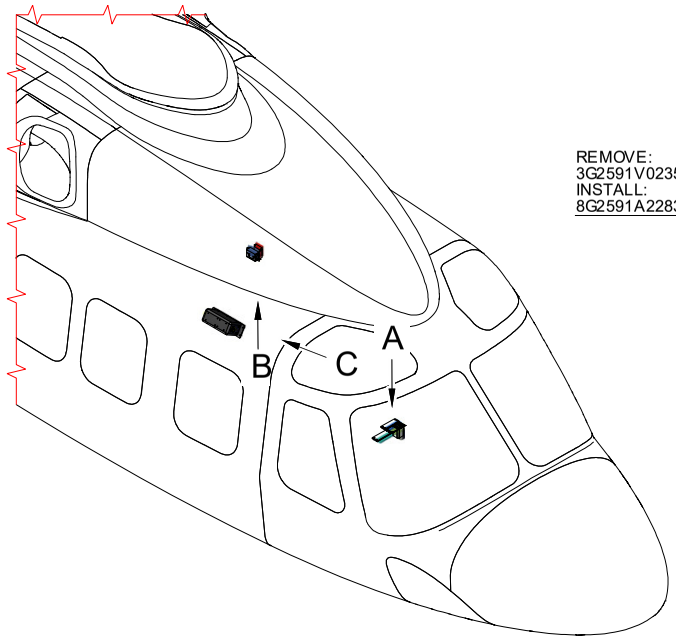


VIEW F

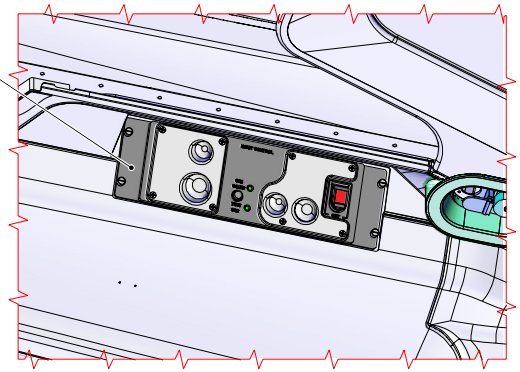
STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
(REFER TO FIGURE 7)

Figure 13

SINGLE HOIST TO FOLDABLE EQUIP. INST.
8G2591A27311



REMOVE:
3G2591V02351 HOIST CONTROL PANEL (A204)
INSTALL:
8G2591A22831 SINGLE HOIST OP. CON. PANEL BLANKED SW



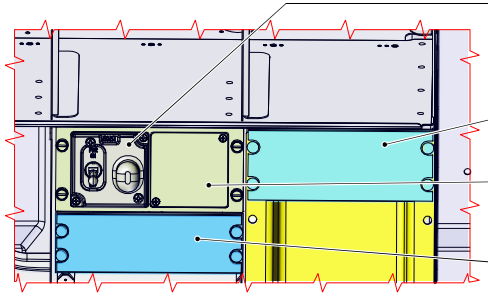
VIEW C
STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

REMOVE:
AW002SC312A BLANK PLATE
INSTALL:
8G2591A22931 SINGLE HOIST CONTROL PANEL
ED300PL90 DECAL

REMOVE:
3G2591V00152 PANEL (P84)
INSTALL:
AW002SC311A BLANKING PLATE

INSTALL:
6F2500L00153 SWIVEL PLATE

REMOVE:
AW002SC312ABLANK PLATE
INSTALL:
AW002SC310A BLANKING PLATE



VIEW A
STRUCTURE AND SYSTEMS ARE PARTIALLY
OMITTED FOR BETTER CLARITY PURPOSE

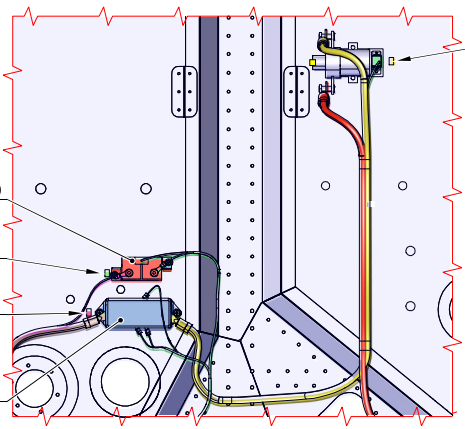
REMOVE:
ED300K226 DECAL
INSTALL:
ED300K2030 DECAL

INSTALL:
A616A1A20 CIRCUIT BREAKER
NAS1802-08-8 SCREW (QTY 2)
NAS1149DN816J WASHER (QTY 2)

INSTALL:
ED300S246 DECAL

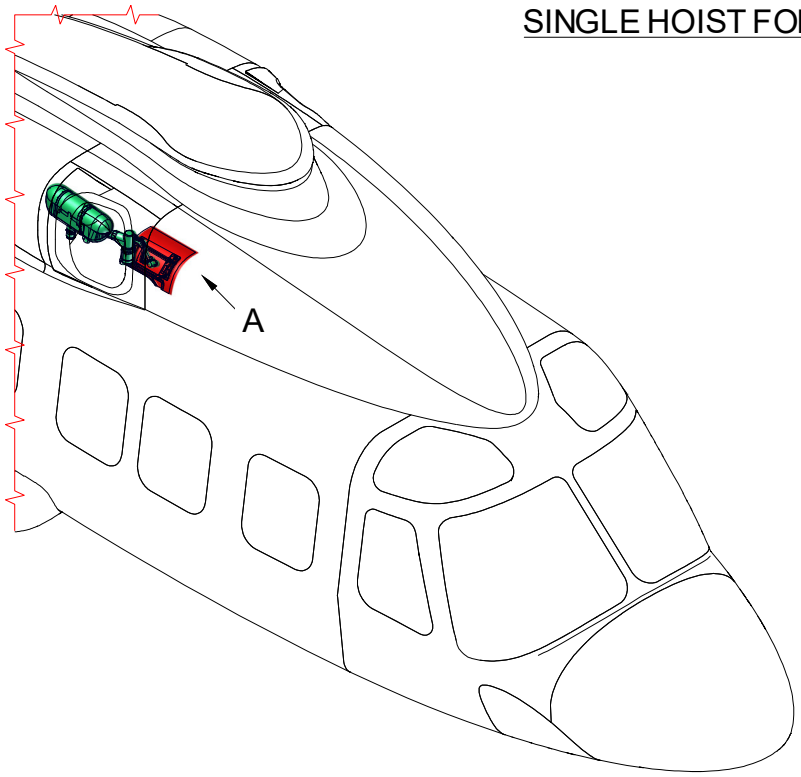
INSTALL:
ED300S244 DECAL

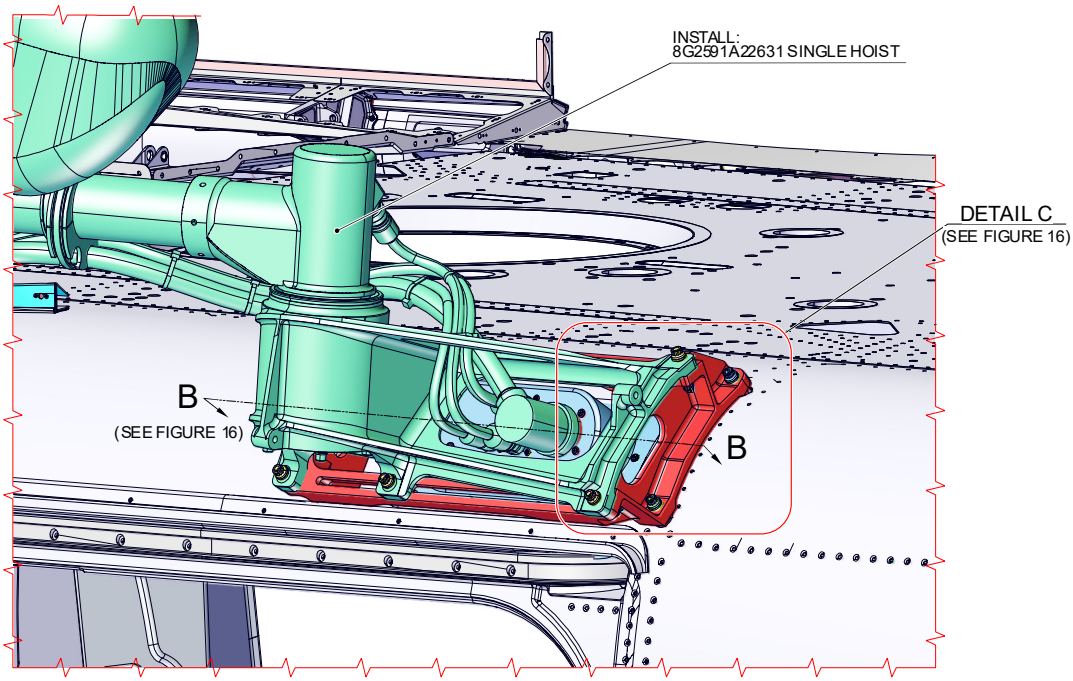
INSTALL:
7236-1-150 CURRENT SENSOR
NAS1802-3-8 SCREW (QTY 2)
NAS1149D0332J WASHER (QTY 2)



VIEW B
STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

Figure 14

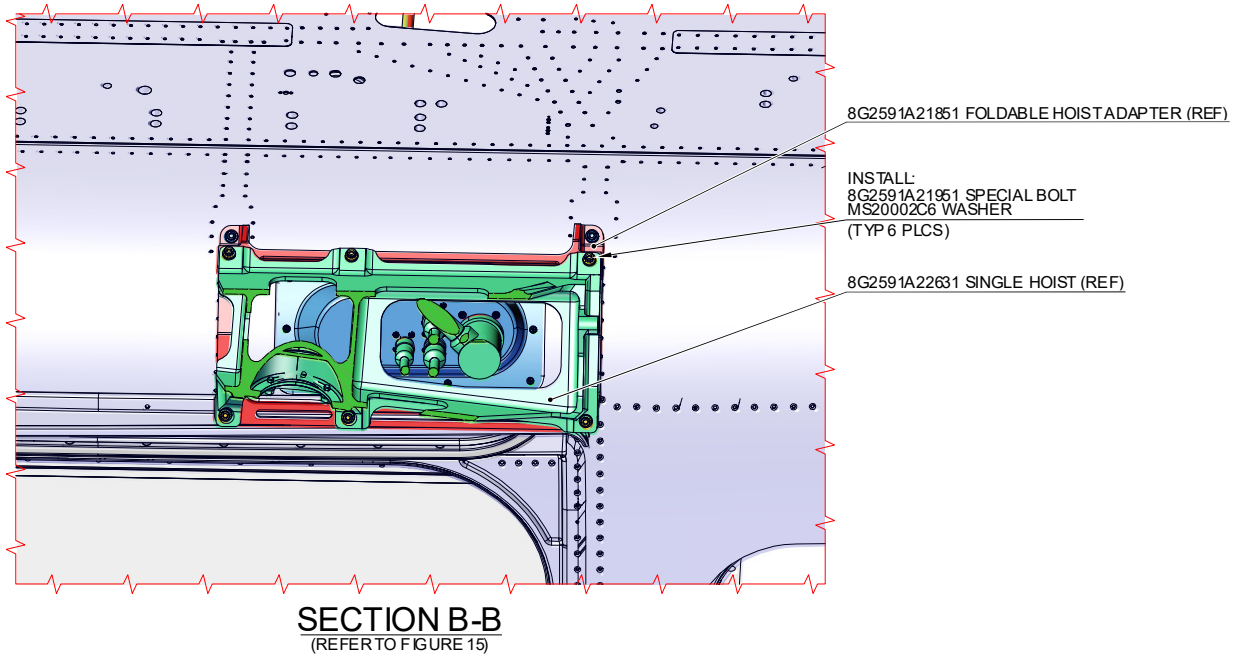




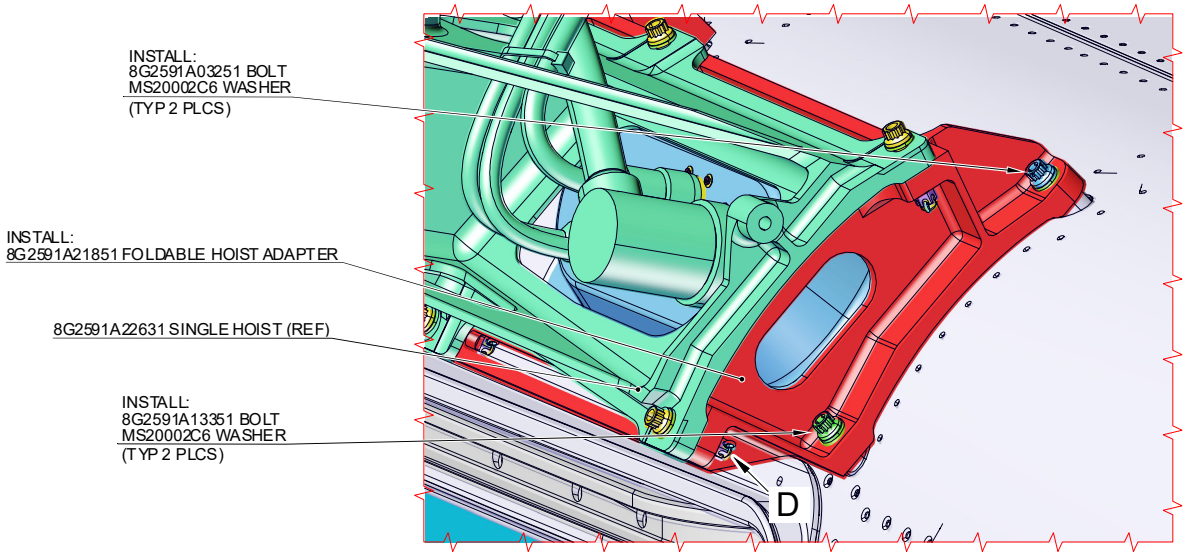
VIEW A

STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

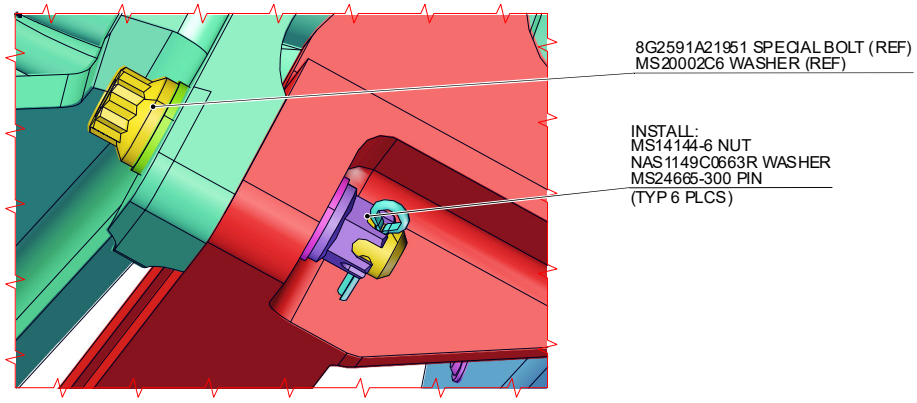
Figure 15



SECTION B-B
(REFER TO FIGURE 15)



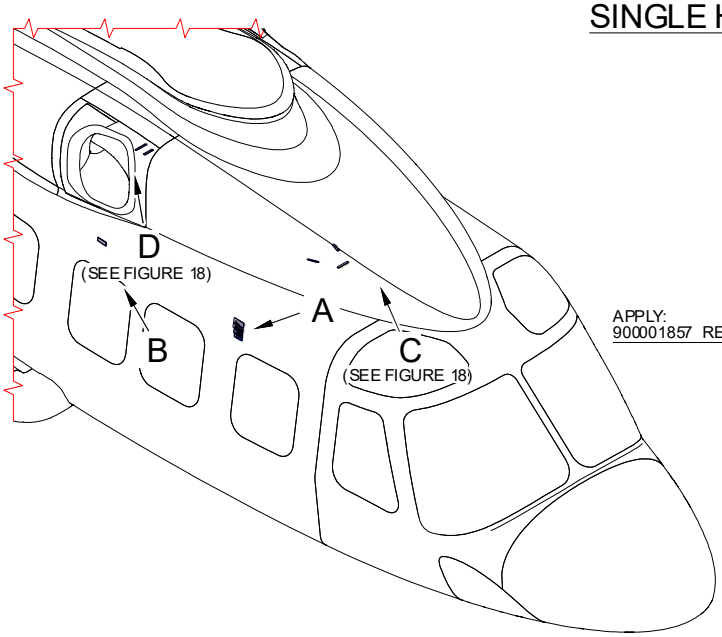
DETAIL C
(REFER TO FIGURE 15)

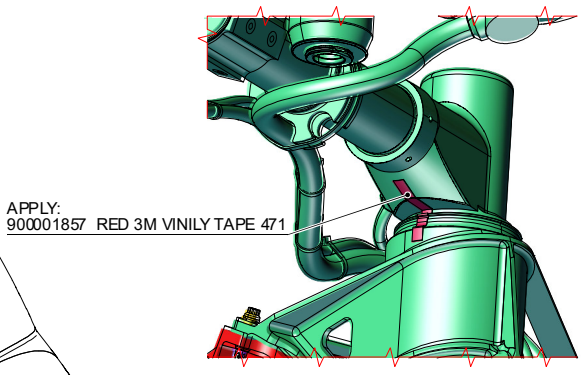


VIEW D

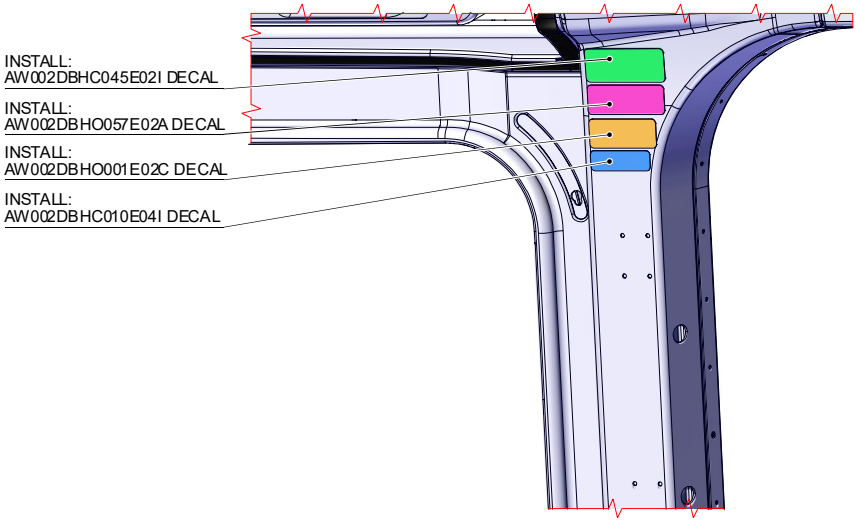
Figure 16

SINGLE HOIST FOLDABLE, LABEL INSTL.
8G1130A37611

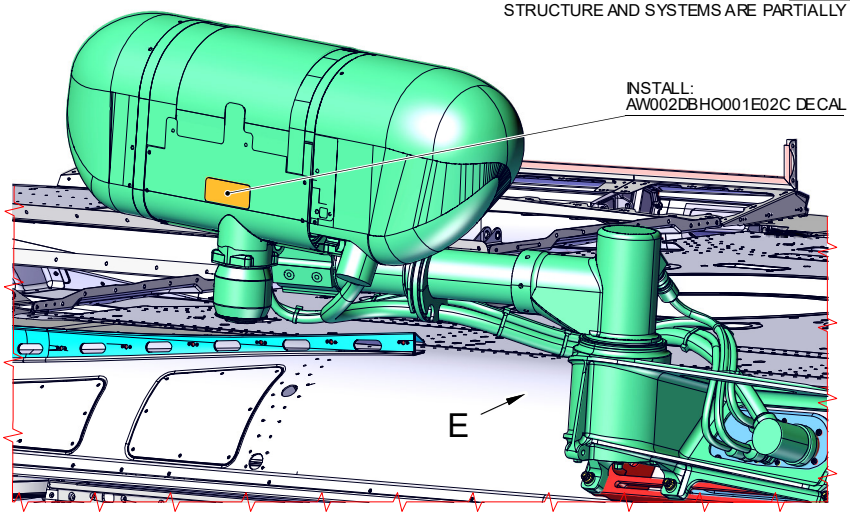




VIEW E

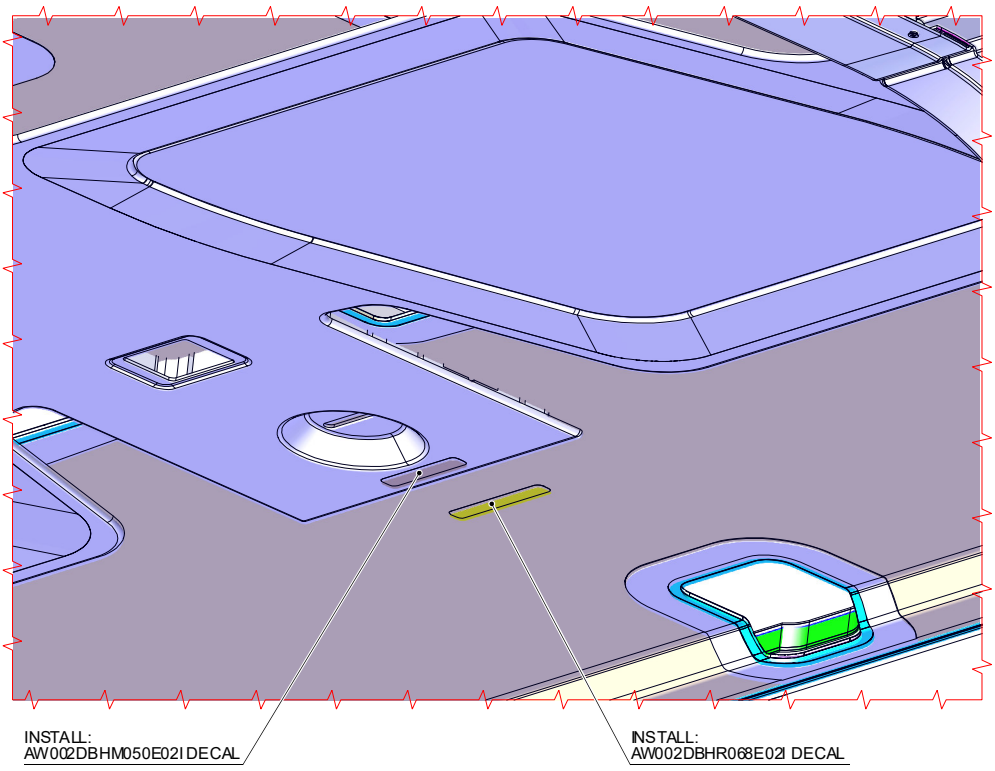


VIEW A
STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE



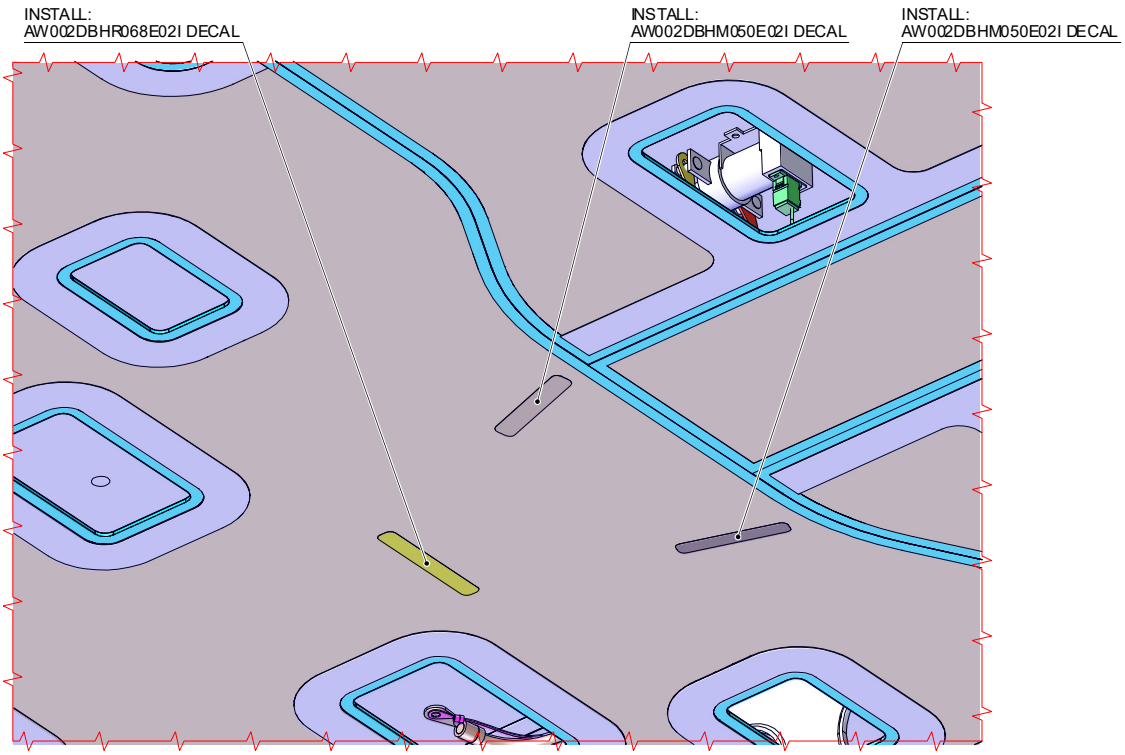
VIEW B
STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

Figure 17



VIEW D

STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
(REFER TO FIGURE 17)



VIEW C

STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
(REFER TO FIGURE 17)

Figure 18

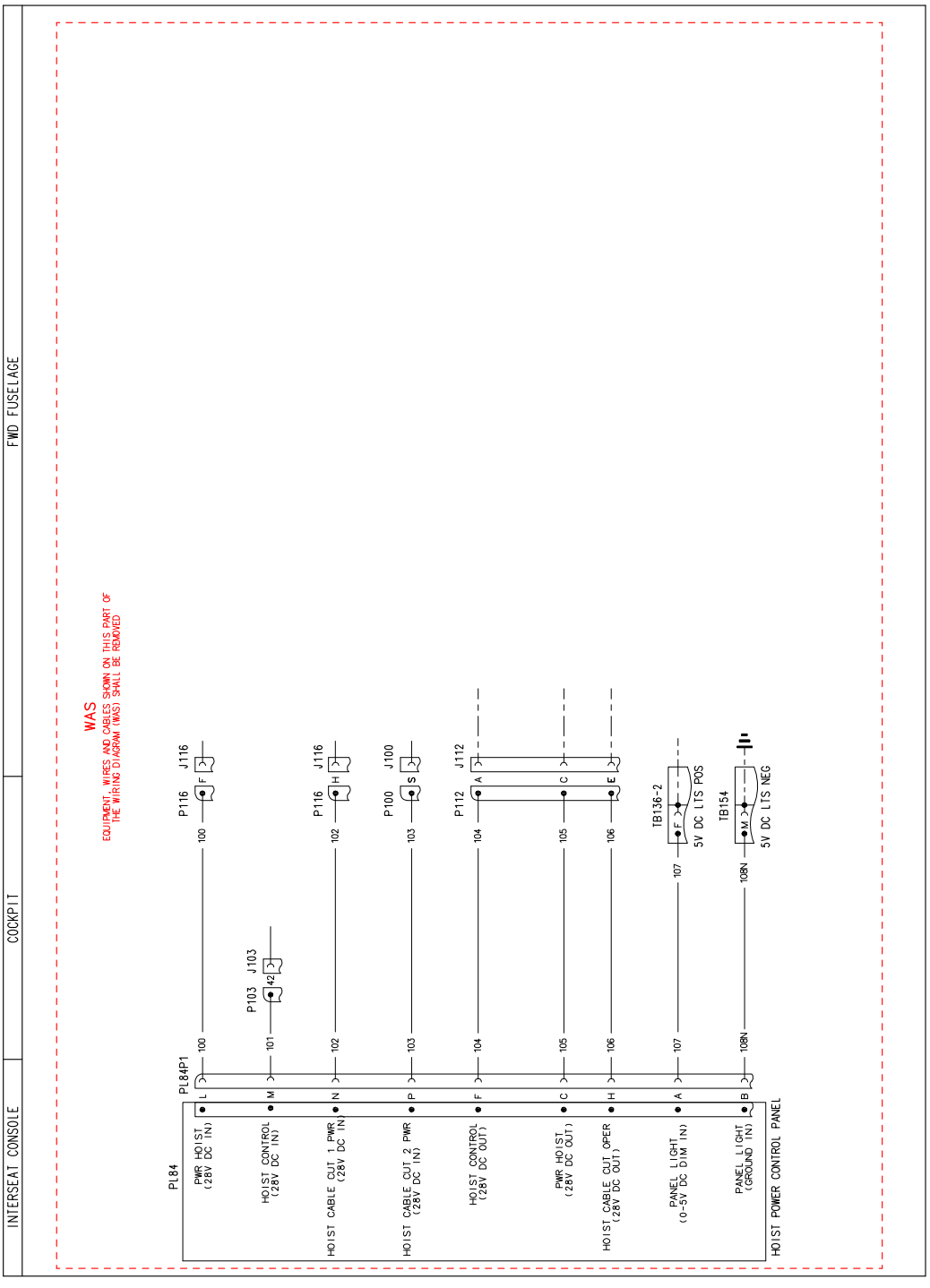

INTERSEAT CONSOLE
COCKPIT
FWD FUSELAGE
WAS
EQUIPMENT, WIRES AND CABLES SHOWN ON THIS PART OF THE WIRING DIAGRAM (WAS) SHALL BE REMOVED
PL84
PL84P1
P116 J116
P103 J103
P100 J100
P112 J112
TB136-2
TB154
PWR HOIST (28V DC IN)
HOIST CONTROL (28V DC IN)
HOIST CABLE CUT 1 PWR (28V DC IN)
HOIST CABLE CUT 2 PWR (28V DC IN)
HOIST CONTROL (28V DC OUT)
PWR HOIST (28V DC OUT)
HOIST CABLE CUT OPER (28V DC OUT)
PANEL LIGHT (0-5V DC DIM IN)
PANEL LIGHT (GROUND IN)
5V DC LTS POS
5V DC LTS NEG
HOIST POWER CONTROL PANEL
FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM A1B215 UNLESS SPECIFIED
ALL CABLES ARE OF TYPE AS56A1 22 UNLESS SPECIFIED
CABLE IDENT: EVERY WIRE NUMBER IS PRECEDED BY THE A1A 100 DESCRIPTION 2591 AND FOLLOWED BY WIRE SIZE AND EMC CODE.

Figure 19

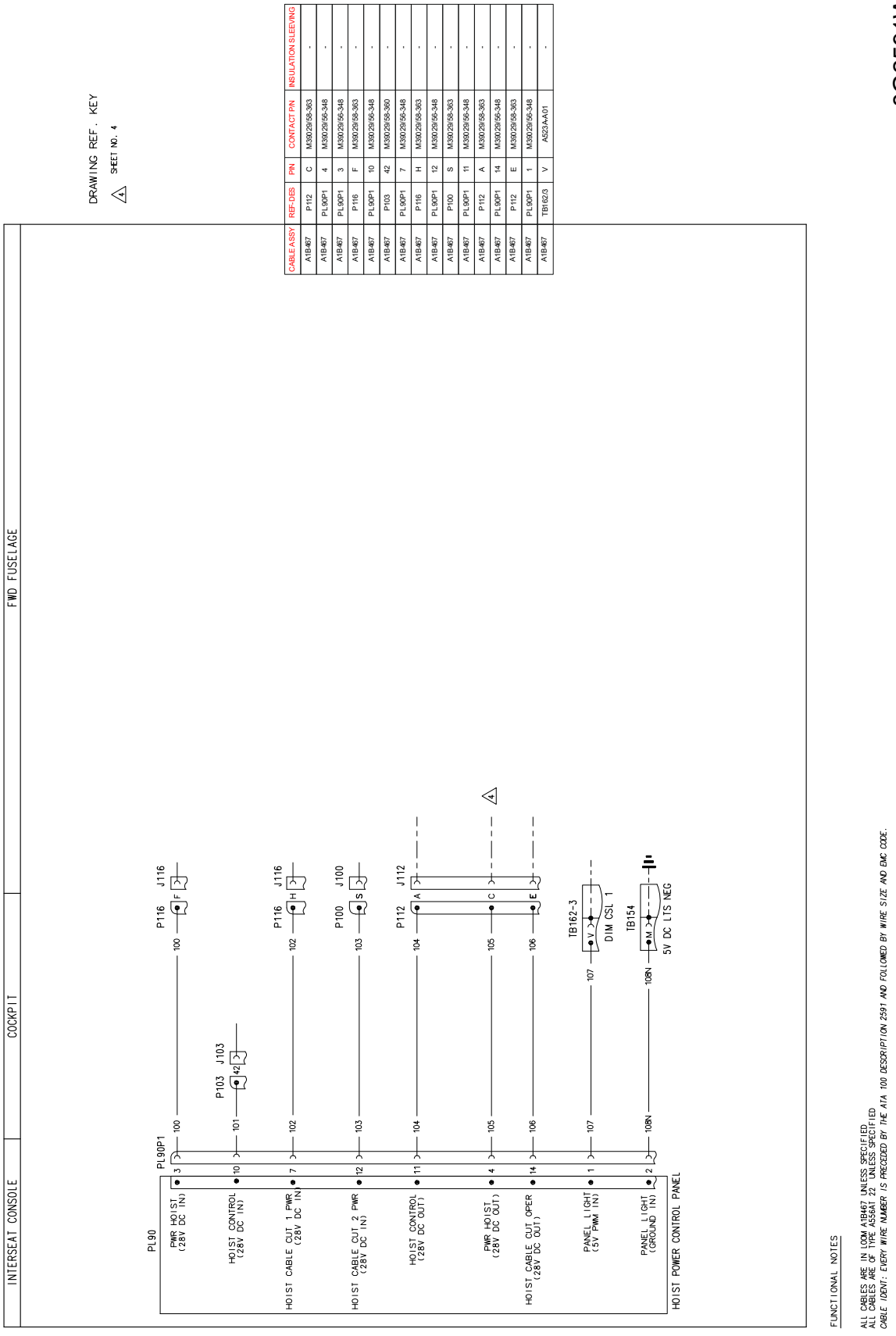

INTERSEAT CONSOLE
COCKPIT
FWD FUSELAGE
DRAWING REF. KEY
4 SHEET NO. 4
CABLE ASSY | REF-DES | PIN | CONTACT P/N | INSULATION SLEEVING
A1B467 | P112 | C | M39029/58-363 | -
A1B467 | PL90P1 | 4 | M39029/56-348 | -
A1B467 | PL90P1 | 3 | M39029/56-348 | -
A1B467 | P116 | F | M39029/56-363 | -
A1B467 | PL90P1 | 10 | M39029/56-345 | -
A1B467 | P103 | 42 | M39029/58-360 | -
A1B467 | PL90P1 | 7 | M39029/56-348 | -
A1B467 | P116 | H | M39029/58-363 | -
A1B467 | PL90P1 | 12 | M39029/56-348 | -
A1B467 | P100 | S | M39029/58-363 | -
A1B467 | PL90P1 | 11 | M39029/56-348 | -
A1B467 | P112 | A | M39029/58-363 | -
A1B467 | PL90P1 | 14 | M39029/56-348 | -
A1B467 | P112 | E | M39029/58-363 | -
A1B467 | PL90P1 | 1 | M39029/56-348 | -
A1B467 | TB162/3 | V | A523-AA01 | -
PL90
PL90P1
PWR HOIST (28V DC IN)
HOIST CONTROL (28V DC IN)
HOIST CABLE CUT 1 PWR (28V DC IN)
HOIST CABLE CUT 2 PWR (28V DC IN)
HOIST CONTROL (28V DC OUT)
PWR HOIST (28V DC OUT)
HOIST CABLE CUT OPER (28V DC OUT)
PANEL LIGHT (5V PWM IN)
PANEL LIGHT (GROUND IN)
HOIST POWER CONTROL PANEL
P116 J116
P103 J103
P100 J100
P112 J112
TB162-3
DIM CSL 1
TB154
5V DC LTS NEG
FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM A1B467 UNLESS SPECIFIED.
ALL CABLES ARE OF TYPE AS56A1 22 UNLESS SPECIFIED
CABLE IDENT: EVERY WIRE NUMBER IS PRECEDED BY THE ATA 100 DESCRIPTION 2591 AND FOLLOWED BY WIRE SIZE AND DAC CODE.

Figure 20

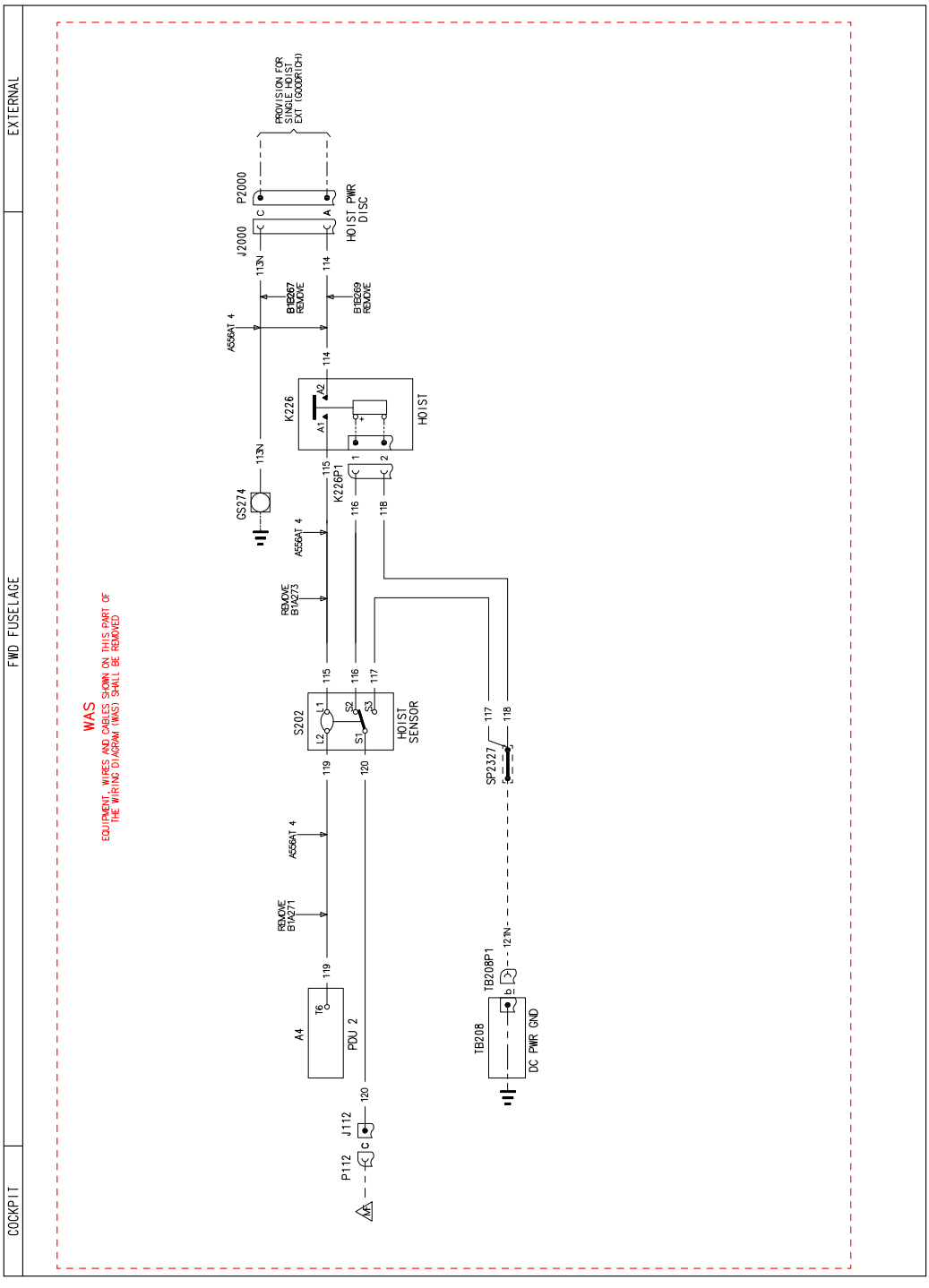
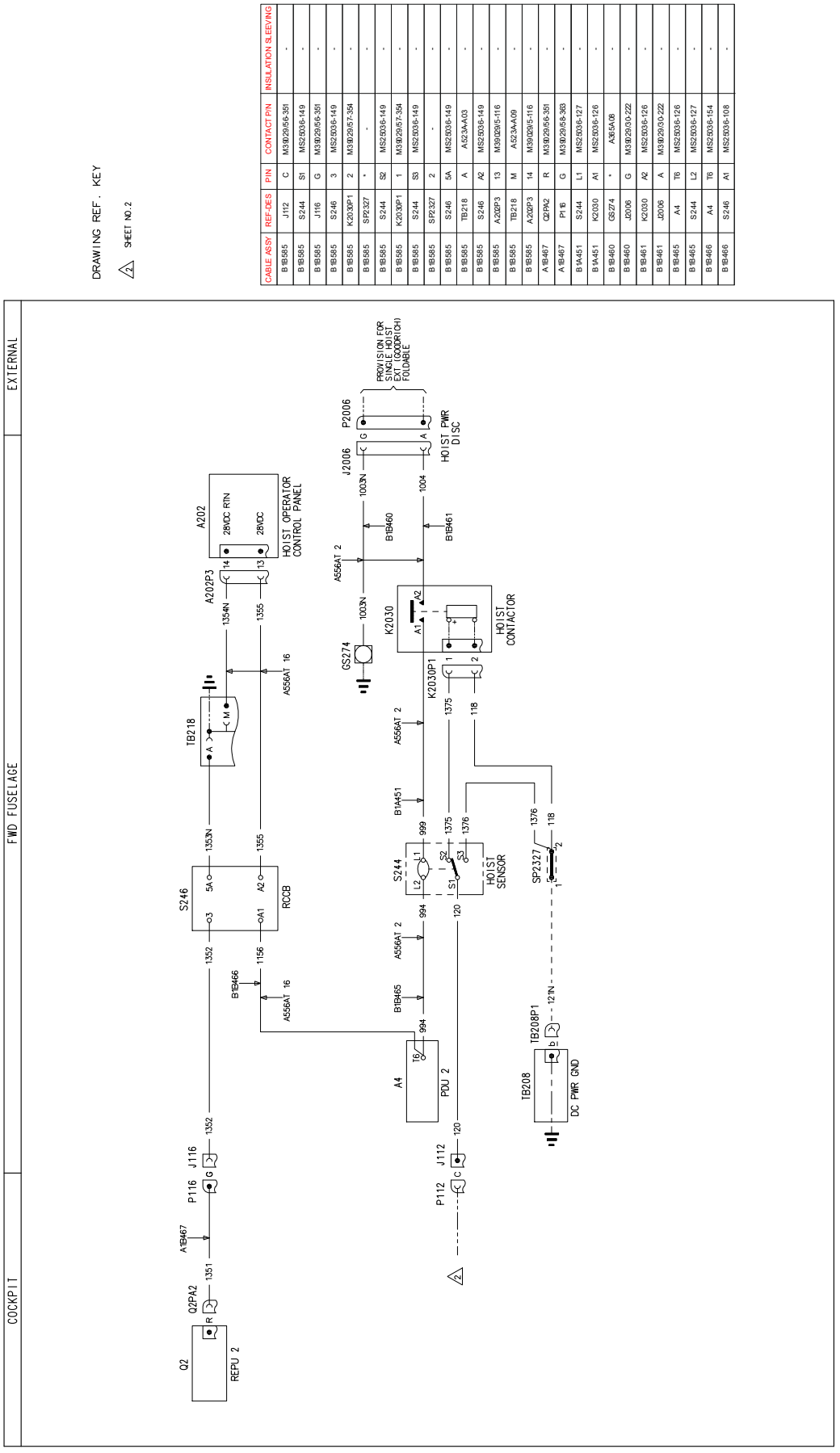

COCKPIT
FWD FUSELAGE
EXTERNAL
WAS
EQUIPMENT, WIRES AND CABLES SHOWN ON THIS PART OF THE WIRING DIAGRAM (WAS) SHALL BE REMOVED
PROVISION FOR SINGLE HOIST EXT (GOODRICH)
P2000
J2000
HOIST PWR DISC
REMOVE B1B267
REMOVE B1B269
A556AT 4
113N
114
K226
A1
A2
HOIST
K226P1
115
116
118
GS274
REMOVE B1A273
S202
L1
L2
S1
S2
S3
HOIST SENSOR
117
SP2327
119
120
REMOVE B1A271
A4
16
PDU 2
TB208P1
121N
TB208
DC PWR GND
P112
J112
FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM B1B271 UNLESS SPECIFIED.
ALL CABLES ARE OF TYPE AS56AT 22 UNLESS SPECIFIED
CABLE IDENT: EVERY WIRE NUMBER IS PRECEDED BY THE A1A 100 DESCRIPTION 2591 AND FOLLOWED BY WIRE SIZE AND EMC CODE.

Figure 21



CABLE ASSY	REF-DES	PIN	CONTACT P/N	INSULATION SLEEVING
B1B585	J112	C	M39029/56-351	-
B1B585	S244	S1	MS25036-149	-
B1B585	J116	G	M39029/56-351	-
B1B585	S246	3	MS25036-149	-
B1B585	K2030P1	2	M39029/57-354	-
B1B585	SP2327	*	-	-
B1B585	S244	S2	MS25036-149	-
B1B585	K2030P1	1	M39029/57-354	-
B1B585	S244	S3	MS25036-149	-
B1B585	SP2327	2	-	-
B1B585	S246	5A	MS25036-149	-
B1B585	TB218	A	A523A-A03	-
B1B585	S246	A2	MS25036-149	-
B1B585	A202P3	13	M39029/5-116	-
B1B585	TB218	M	A523A-A09	-
B1B585	A202P3	14	M39029/5-116	-
A1B467	Q2PA2	R	M39029/56-351	-
A1B467	P116	G	M39029/58-363	-
B1A451	S244	L1	MS25036-127	-
B1A451	K2030	A1	MS25036-126	-
B1B460	GS274	*	A3154-08	-
B1B460	J2006	G	M39029/30-222	-
B1B461	K2030	A2	MS25036-126	-
B1B461	J2006	A	M39029/30-222	-
B1B465	A4	T6	MS25036-126	-
B1B465	S244	L2	MS25036-127	-
B1B466	A4	T6	MS25036-154	-
B1B466	S246	A1	MS25036-108	-

FUNCTIONAL NOTES

ALL CABLES ARE IN LOOM B1B585 UNLESS SPECIFIED
ALL CABLES ARE OF TYPE A556AT 22 UNLESS SPECIFIED
CABLE IDENT: EVERY WIRE NUMBER IS PRECEDED BY THE ATA 100 DESCRIPTION 2350 AND FOLLOWED BY WIRE SIZE AND EMC CODE.

Figure 22

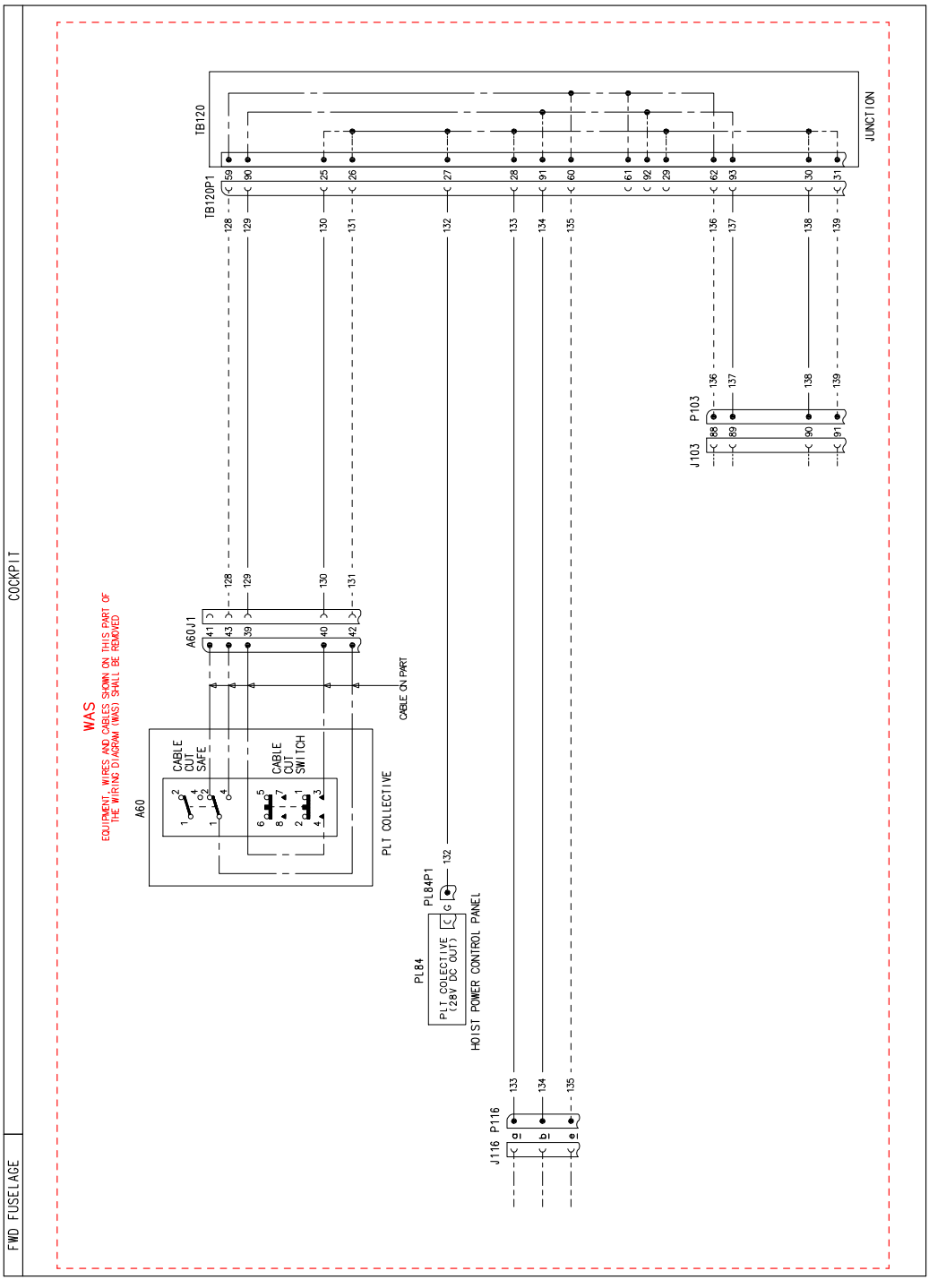

COCKPIT
FWD FUSELAGE
WAS
EQUIPMENT, WIRES AND CABLES SHOWN ON THIS PART OF THE WIRING DIAGRAM (WAS) SHALL BE REMOVED
A60
CABLE CUT SAFE
CABLE CUT SWITCH
A60J1
CABLE ON PART
PLT COLLECTIVE
PL84P1
PL84
PLT COLECTIVE (28V DC OUT)
HOIST POWER CONTROL PANEL
J116 P116
TB120
TB120P1
JUNCTION
J103 P103
FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM A1B215 UNLESS SPECIFIED.
ALL CABLES ARE OF TYPE AS56AT 22 UNLESS SPECIFIED
CABLE IDENT.: EVERY WIRE NUMBER IS PRECEDED BY THE A/A 100 DESCRIPTION 2591 AND FOLLOWED BY WIRE SIZE AND EMC CODE.

Figure 23

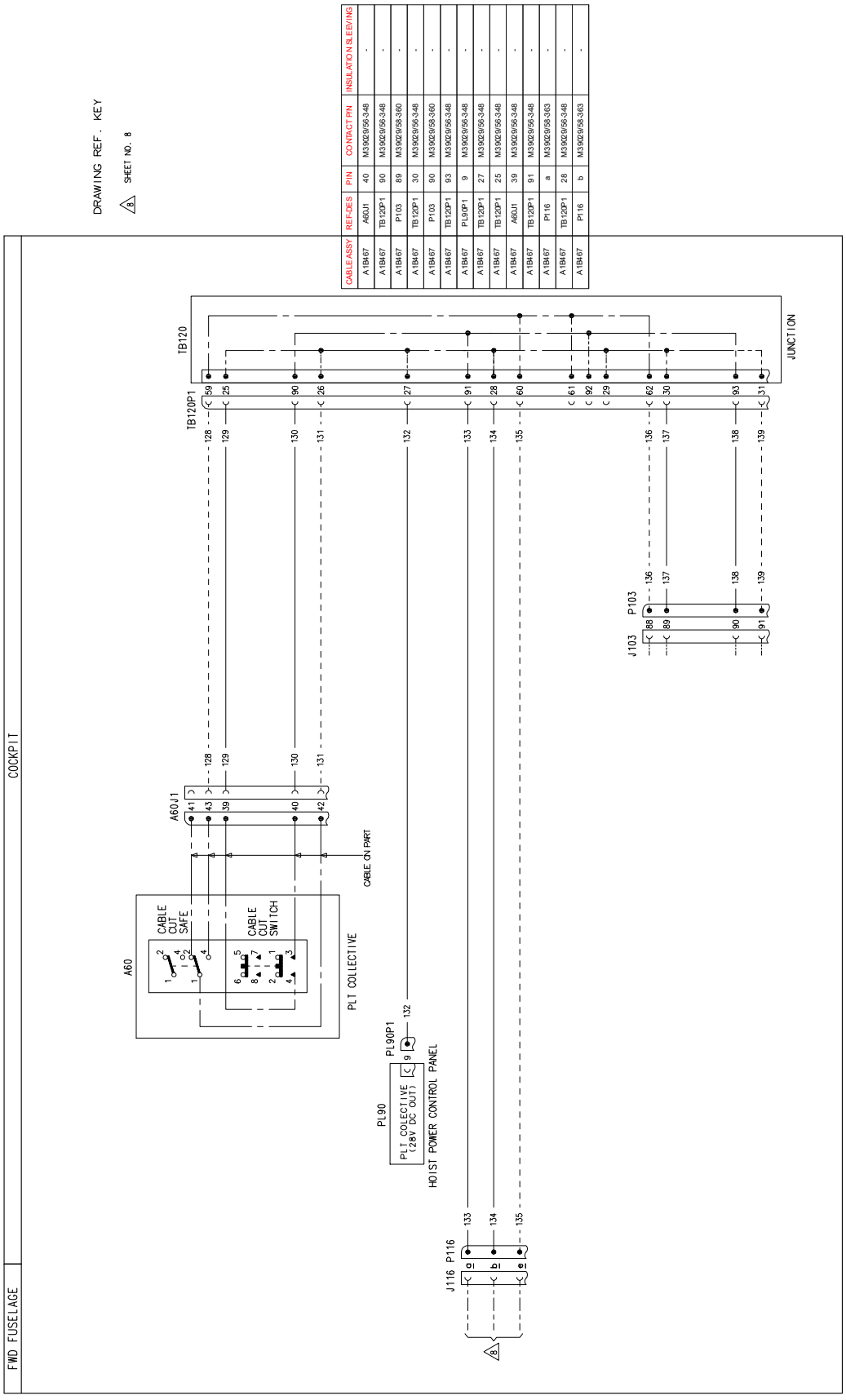

DRAWING REF. KEY
8 SHEET NO. 8
CABLE ASSY | REF-DES | PIN | CONTACT P/N | INSULATION SLEEVING
A1B467 | A60J1 | 40 | M39029/56-348 | -
A1B467 | TB120P1 | 90 | M39029/56-348 | -
A1B467 | P103 | 89 | M39029/58-360 | -
A1B467 | TB120P1 | 30 | M39029/56-348 | -
A1B467 | P103 | 90 | M39029/58-360 | -
A1B467 | TB120P1 | 93 | M39029/56-348 | -
A1B467 | PL90P1 | 9 | M39029/56-348 | -
A1B467 | TB120P1 | 27 | M39029/56-348 | -
A1B467 | TB120P1 | 25 | M39029/56-348 | -
A1B467 | A60J1 | 39 | M39029/56-348 | -
A1B467 | TB120P1 | 91 | M39029/56-348 | -
A1B467 | P116 | a | M39029/58-363 | -
A1B467 | TB120P1 | 28 | M39029/56-348 | -
A1B467 | P116 | b | M39029/58-363 | -
FWD FUSELAGE
COCKPIT
TB120
JUNCTION
TB120P1
A60J1
CABLE ON PART
A60
CABLE CUT SAFE
CABLE CUT SWITCH
PLT COLLECTIVE
P103
J103
PL90P1
PL90
PLT COLLECTIVE (28V DC OUT)
HOIST POWER CONTROL PANEL
J116 P116
8
FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM A1B467 UNLESS SPECIFIED
ALL CABLES ARE OF TYPE AS56AT 22 UNLESS SPECIFIED
CABLE IDENT.: EVERY WIRE NUMBER IS PRECEDED BY THE ATA 100 DESCRIPTION 2591 AND FOLLOWED BY WIRE SIZE AND EMC CODE.

Figure 24

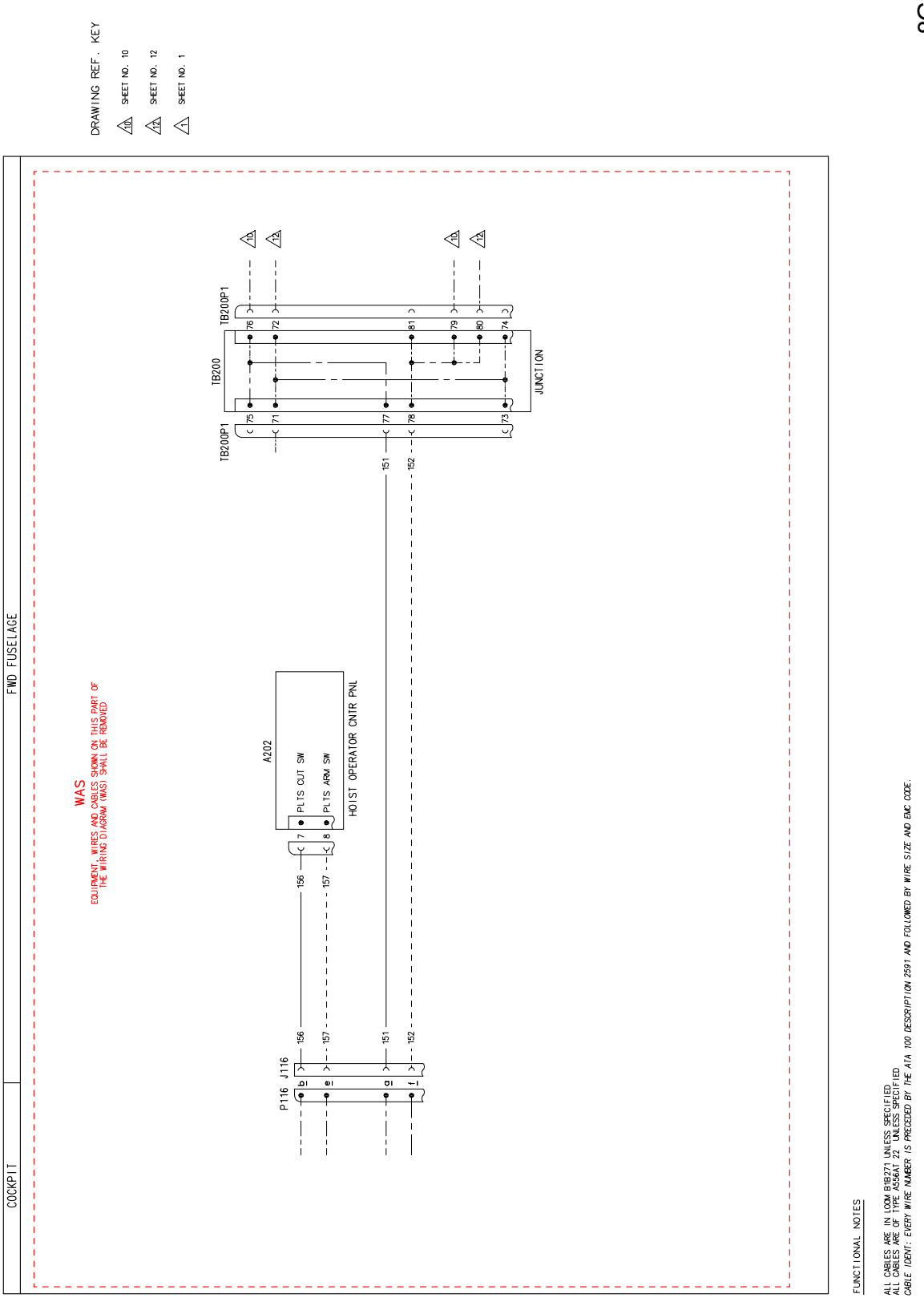

DRAWING REF. KEY
10 SHEET NO. 10
12 SHEET NO. 12
1 SHEET NO. 1
COCKPIT
FWD FUSELAGE
WAS
EQUIPMENT, WIRES AND CABLES SHOWN ON THIS PART OF THE WIRING DIAGRAM (WAS) SHALL BE REMOVED
TB200P1
TB200
TB200P1
JUNCTION
76
72
81
79
80
74
75
71
77
78
73
151
152
A202
PLTS CUT SW
PLTS ARM SW
HOIST OPERATOR CNTR PNL
7
8
156
157
P116
J116
b
e
d
f
FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM B1B271 UNLESS SPECIFIED.
ALL CABLES ARE OF TYPE AS56A1 22 UNLESS SPECIFIED
CABLE IDENT.: EVERY WIRE NUMBER IS PRECEDED BY THE A/A 100 DESCRIPTION 2591 AND FOLLOWED BY WIRE SIZE AND EMC CODE.

Figure 25

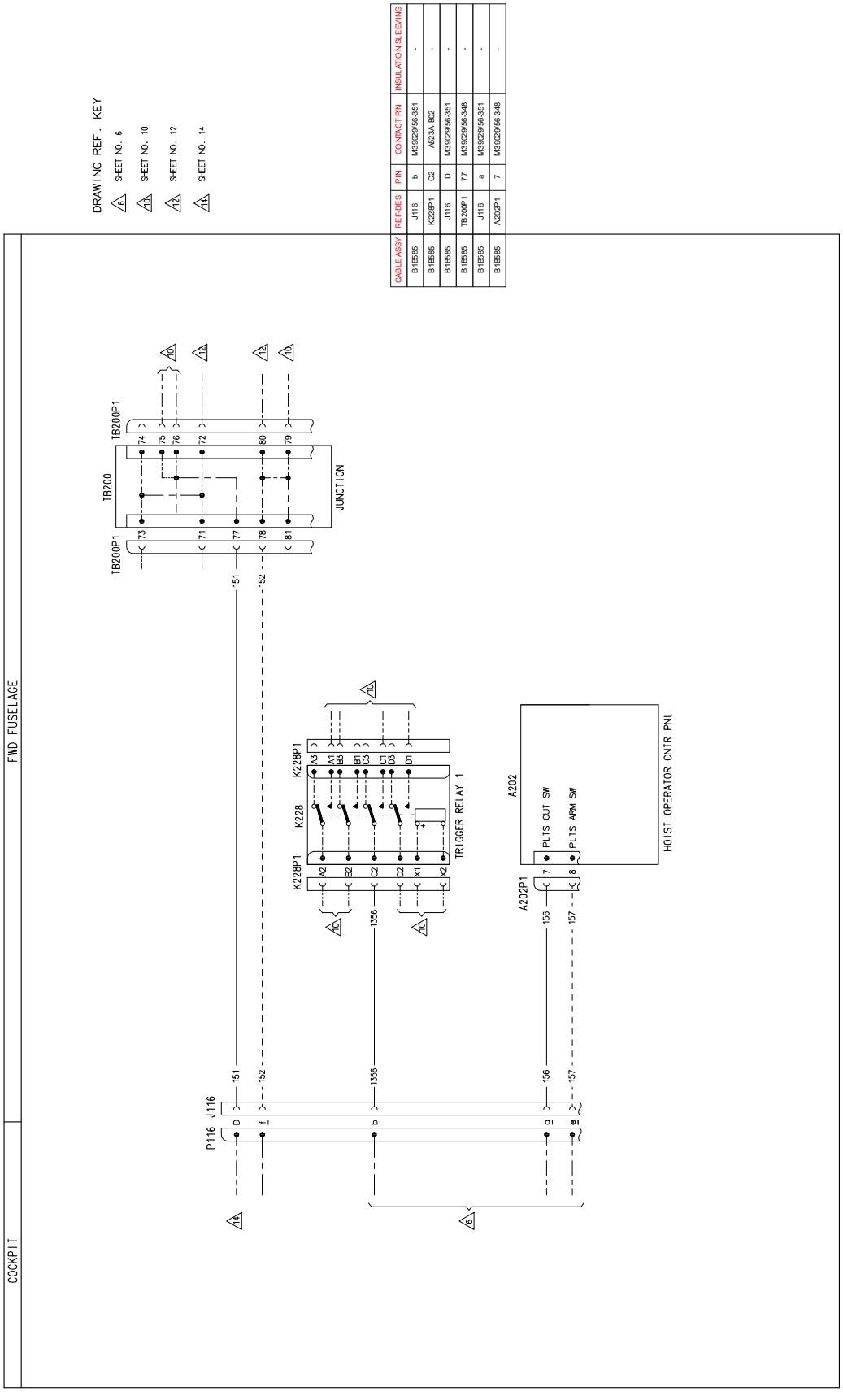

DRAWING REF. KEY
6 SHEET NO. 6
10 SHEET NO. 10
12 SHEET NO. 12
14 SHEET NO. 14
CABLE ASSY | REF-DES | PIN | CONTRACT PIN | INSULATION SLEEVING
B18585 | J116 | b | M39029/56-351 | -
B18585 | K228P1 | C2 | A623A-B02 | -
B18585 | J116 | D | M39029/56-351 | -
B18585 | TB200P1 | 77 | M39029/56-348 | -
B18585 | J116 | a | M39029/56-351 | -
B18585 | A202P1 | 7 | M39029/56-348 | -
COCKPIT
FWD FUSELAGE
TB200P1
TB200
JUNCTION
K228P1
K228
TRIGGER RELAY 1
A202
PLTS CUT SW
PLTS ARM SW
HOIST OPERATOR CNTR PNL
P116 J116
A202P1
FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM B18585 UNLESS SPECIFIED
ALL CABLES ARE OF TYPE A556AT 22 UNLESS SPECIFIED
CABLE IDENT: EVERY WIRE NUMBER IS PRECEDED BY THE ATA 100 DESCRIPTION 2591 AND FOLLOWED BY WIRE SIZE AND EMC CODE.

Figure 26

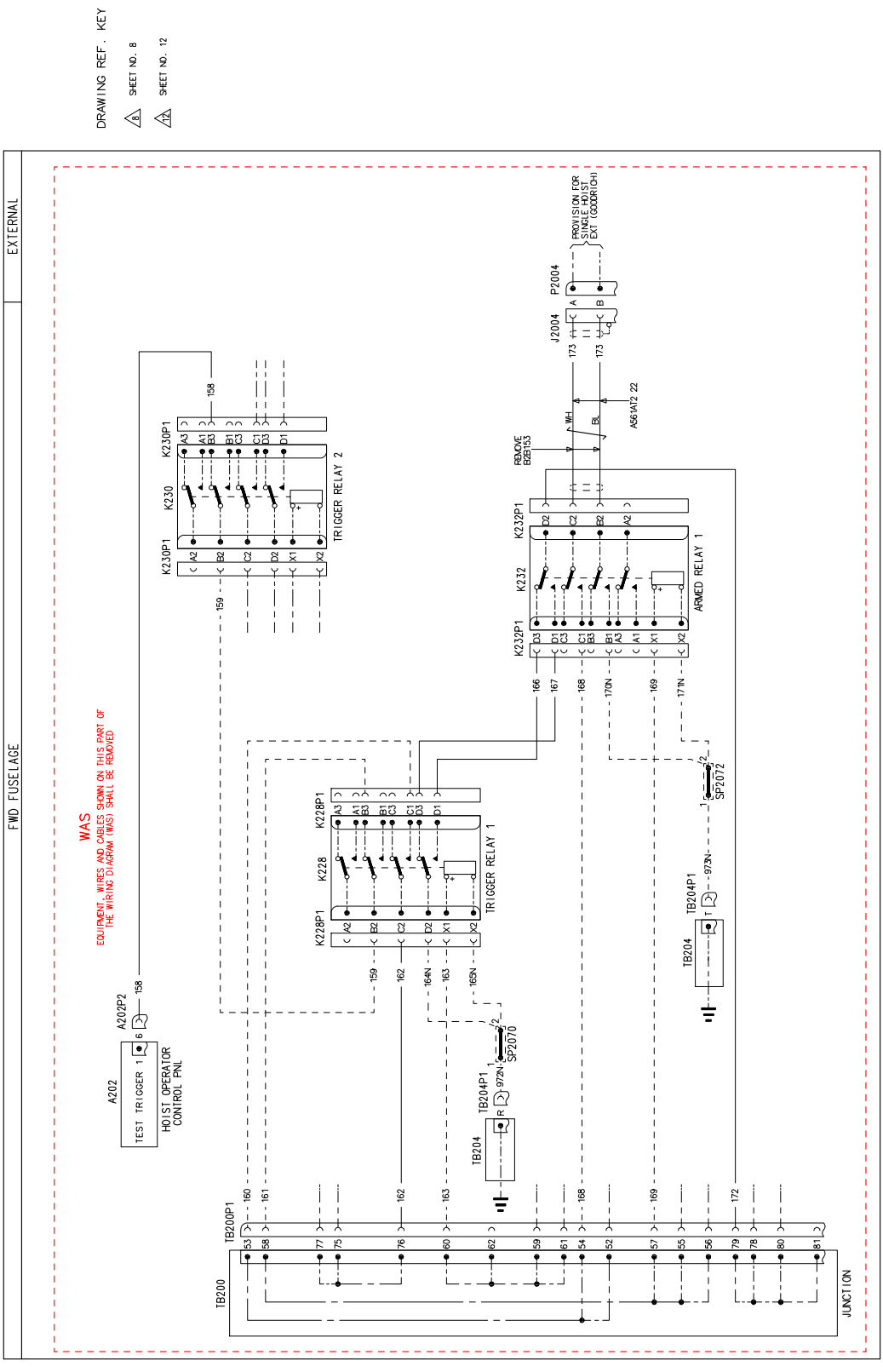

DRAWING REF. KEY
SHEET NO. 8
SHEET NO. 12
EXTERNAL
FWD FUSELAGE
WAS
EQUIPMENT, WIRES AND CABLES SHOWN ON THIS PART OF THE WIRING DIAGRAM (WAS) SHALL BE REMOVED
A202
TEST TRIGGER 1
HOIST OPERATOR CONTROL PNL
A202P2
158
K230P1
K230
TRIGGER RELAY 2
159
K228P1
K228
TRIGGER RELAY 1
162
164N
163
165N
SP2070
TB204P1
TB204
972N
TB200P1
TB200
JUNCTION
160
161
53
58
77
75
76
60
62
59
61
54
52
57
55
56
79
78
80
81
168
169
172
K232P1
K232
ARMED RELAY 1
166
167
170N
171N
SP2072
973N
REMOVE B2B153
J2004
P2004
PROVISION FOR SINGLE HOIST EXT (GOODRICH)
173
A561AT2 22
FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM B1B271 UNLESS SPECIFIED.
ALL CABLES ARE OF TYPE AS56AT 22 UNLESS SPECIFIED
CABLE IDENT: EVERY WIRE NUMBER IS PRECEDED BY THE A/A 100 DESCRIPTION 2591 AND FOLLOWED BY WIRE SIZE AND EMC CODE.

Figure 27

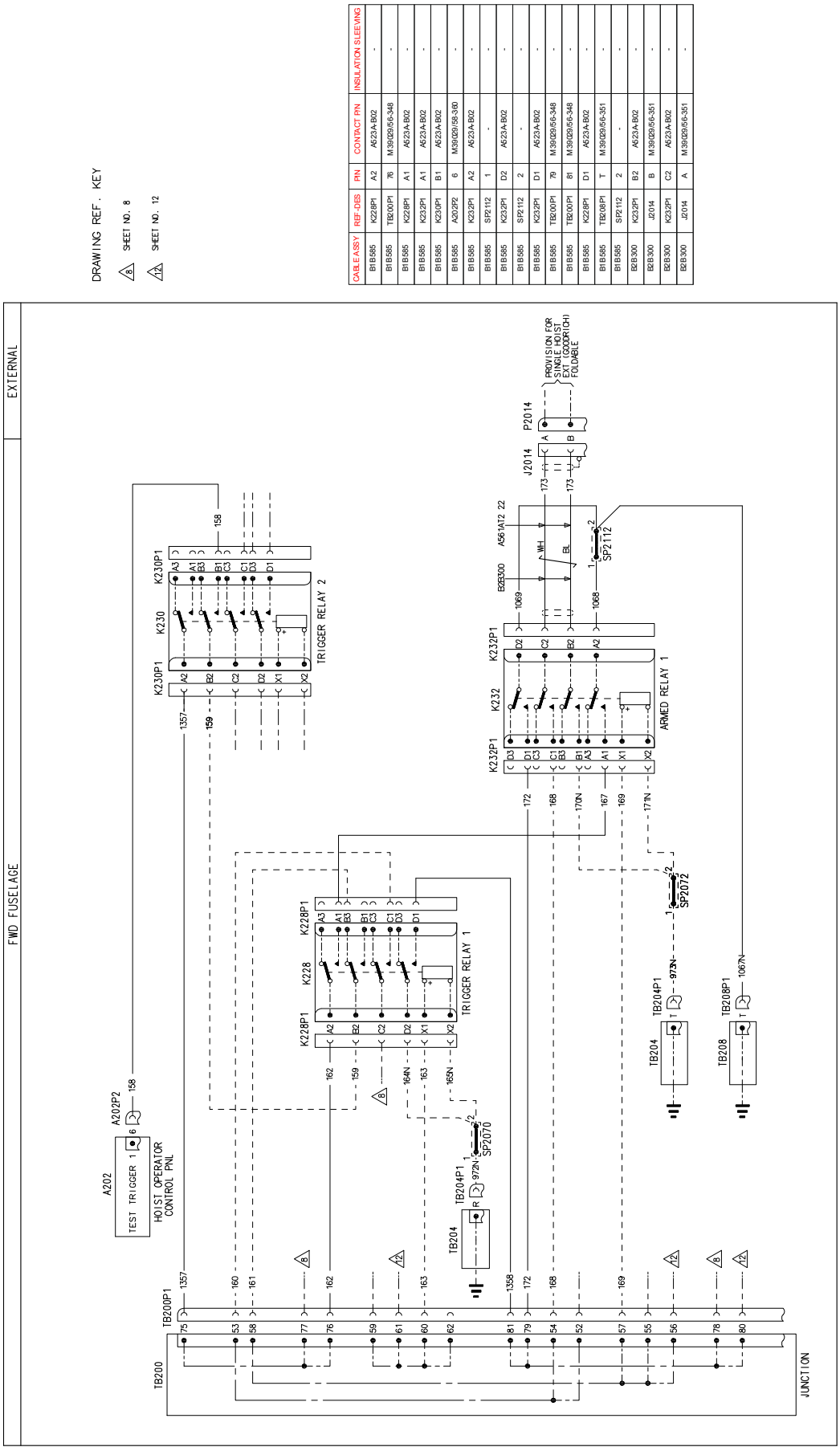

DRAWING REF. KEY
SHEET NO. 8
SHEET NO. 12
CABLE ASSY | REF-DES | PIN | CONTACT P/N | INSULATION SLEEVING
B1B585 | K228P1 | A2 | A623A-B02 | -
B1B585 | TB200P1 | 76 | M39029/56-348 | -
B1B585 | K228P1 | A1 | A623A-B02 | -
B1B585 | K233P1 | A1 | A623A-B02 | -
B1B585 | K230P1 | B1 | A623A-B02 | -
B1B585 | A202P2 | 6 | M39029/58-360 | -
B1B585 | K232P1 | A2 | A623A-B02 | -
B1B585 | SP2112 | 1 | - | -
B1B585 | K232P1 | D2 | A623A-B02 | -
B1B585 | SP2112 | 2 | - | -
B1B585 | K232P1 | D1 | A623A-B02 | -
B1B585 | TB200P1 | 79 | M39029/56-348 | -
B1B585 | TB200P1 | 81 | M39029/56-348 | -
B1B585 | K228P1 | D1 | A623A-B02 | -
B1B585 | TB208P1 | T | M39029/56-351 | -
B1B585 | SP2112 | 2 | - | -
B2B300 | K233P1 | B2 | A623A-B02 | -
B2B300 | J2014 | B | M39029/56-351 | -
B2B300 | K233P1 | C2 | A623A-B02 | -
B2B300 | J2014 | A | M39029/56-351 | -
EXTERNAL
FWD FUSELAGE
A202
TEST TRIGGER
HOIST OPERATOR CONTROL PNL
A202P2
TB200P1
TB200
JUNCTION
K230
K230P1
TRIGGER RELAY 2
K228
K228P1
TRIGGER RELAY 1
K232
K232P1
ARMED RELAY 1
TB204
TB204P1
TB204P1
TB208
TB208P1
J2014
P2014
PROVISION FOR SINGLE HOIST EXT (GOODRICH) FOLDABLE
SP2070
SP2072
SP2112
FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM B1B585 UNLESS SPECIFIED
ALL CABLES ARE OF TYPE A5564T 22 UNLESS SPECIFIED
CABLE IDENT.: EVERY WIRE NUMBER IS PRECEDED BY THE ATA 100 DESCRIPTION 2591 AND FOLLOWED BY WIRE SIZE AND EMC CODE.

Figure 28

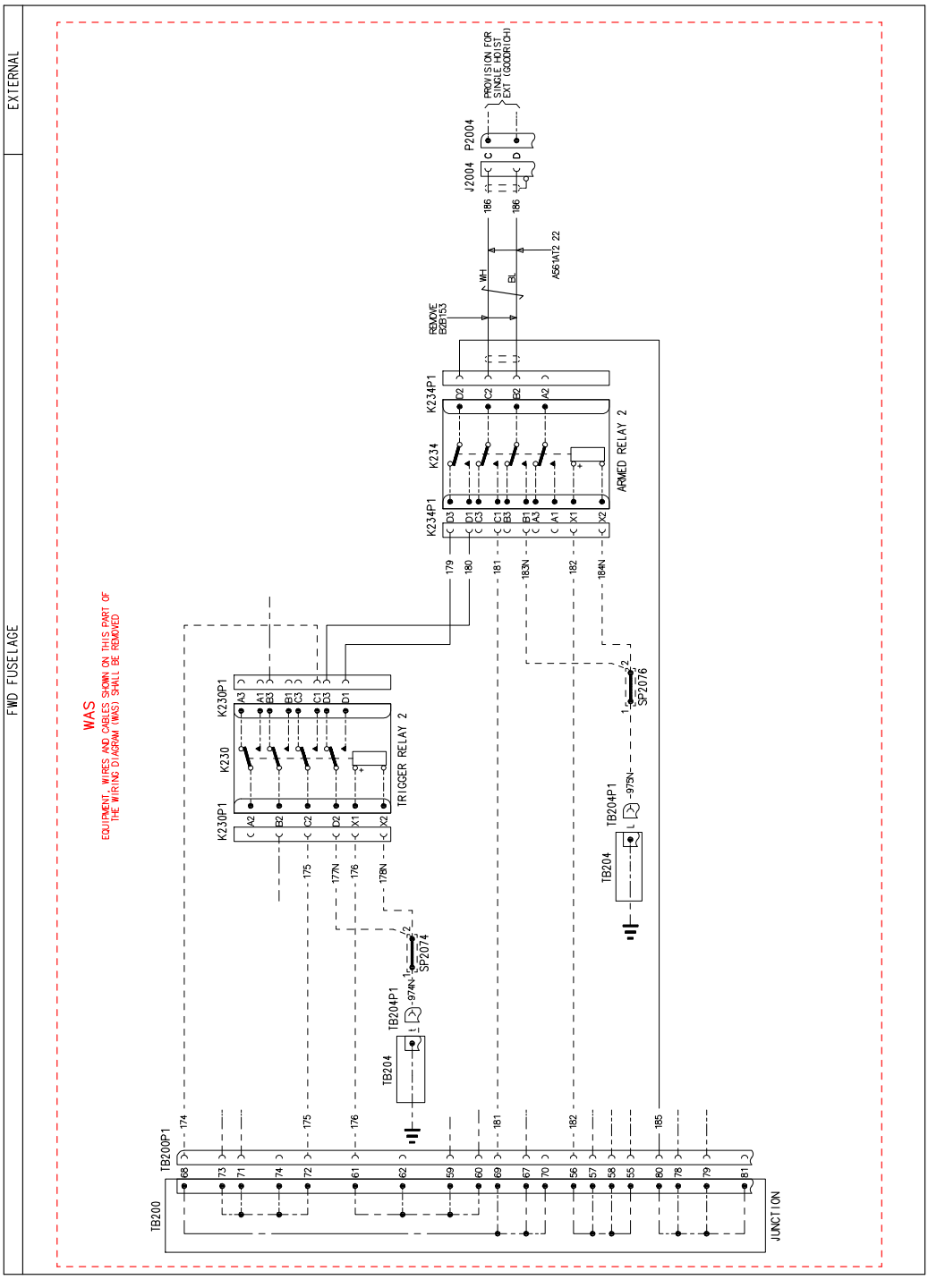

FWD FUSELAGE
EXTERNAL
WAS
EQUIPMENT, WIRES AND CABLES SHOWN ON THIS PART OF THE WIRING DIAGRAM (WAS) SHALL BE REMOVED
TB200
TB200P1
JUNCTION
K230P1
K230
TRIGGER RELAY 2
K234P1
K234
ARMED RELAY 2
TB204
TB204P1
SP2074
SP2076
J2004
P2004
REMOVE B2B153
PROVISION FOR SINGLE HOIST EXT (GOODRICH)
A561AT2 22
WH
BL
FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM B1B271 UNLESS SPECIFIED.
ALL CABLES ARE OF TYPE AS56AT 22 UNLESS SPECIFIED
CABLE IDENT: EVERY WIRE NUMBER IS PRECEDED BY THE A1A 100 DESCRIPTION 2591 AND FOLLOWED BY WIRE SIZE AND EMC CODE.

Figure 29

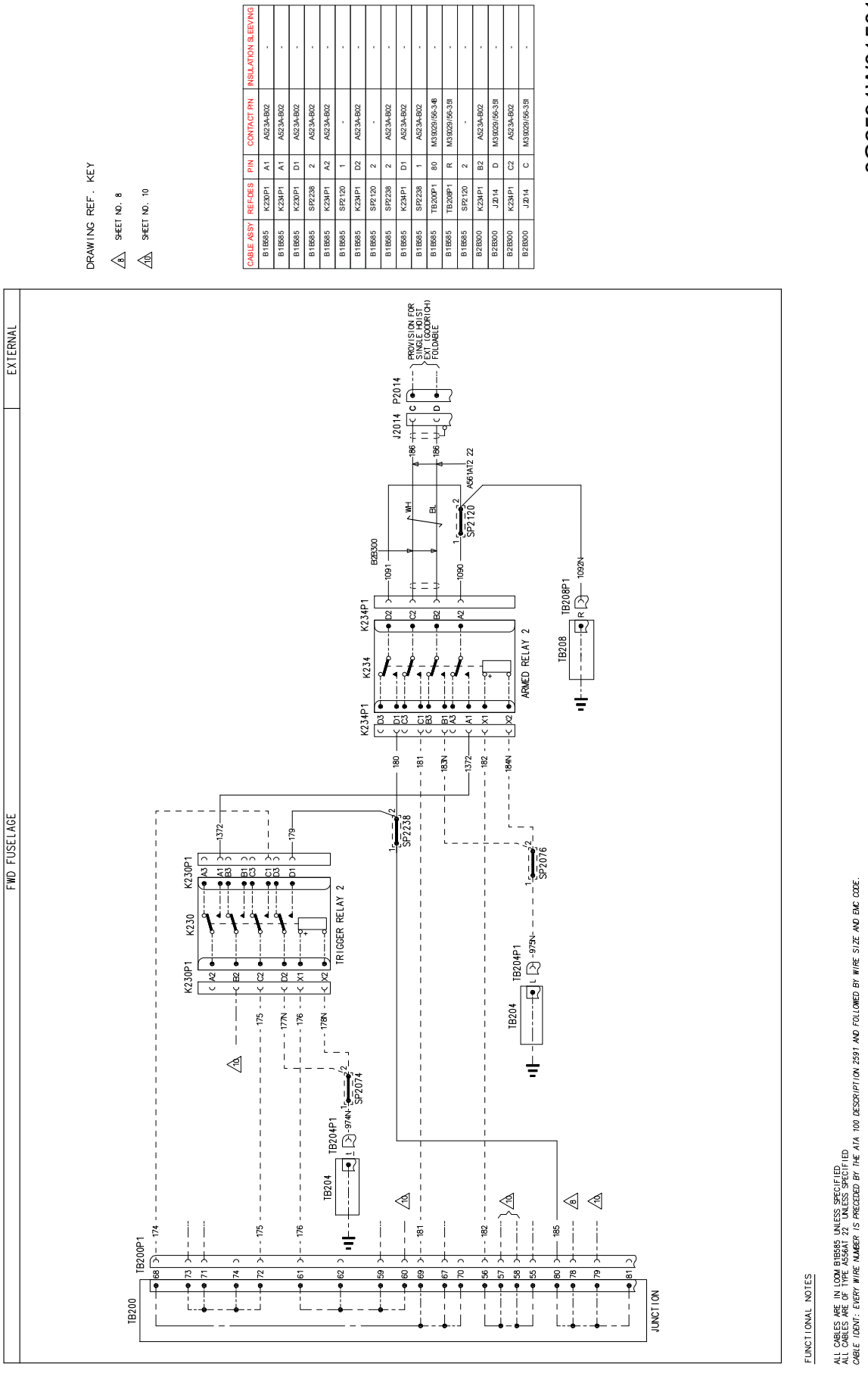

DRAWING REF. KEY
SHEET NO. 8
SHEET NO. 10
CABLE ASSY | REF-DES | PIN | CONTACT P/N | INSULATION SLEEVING
B1B585 | K230P1 | A1 | A523A-B02 | -
B1B585 | K234P1 | A1 | A523A-B02 | -
B1B585 | K230P1 | D1 | A523A-B02 | -
B1B585 | SP2238 | 2 | A523A-B02 | -
B1B585 | K234P1 | A2 | A523A-B02 | -
B1B585 | SP2120 | 1 | - | -
B1B585 | K234P1 | D2 | A523A-B02 | -
B1B585 | SP2120 | 2 | - | -
B1B585 | SP2238 | 2 | A523A-B02 | -
B1B585 | K234P1 | D1 | A523A-B02 | -
B1B585 | SP2238 | 1 | A523A-B02 | -
B1B585 | TB200P1 | 80 | M39029/56-348 | -
B1B585 | TB208P1 | R | M39029/56-351 | -
B1B585 | SP2120 | 2 | - | -
B2B300 | K234P1 | B2 | A523A-B02 | -
B2B300 | J2014 | D | M39029/56-351 | -
B2B300 | K234P1 | C2 | A523A-B02 | -
B2B300 | J2014 | C | M39029/56-351 | -
EXTERNAL
FWD FUSELAGE
PROVISION FOR SINGLE HOIST EXT. (GOOR) (CH1) FOLDABLE
J2014 P2014
A561AT2 22
SP2120
B2B300
K234P1
K234
ARMED RELAY 2
TB208P1
TB208
SP2238
SP2076
K230P1
K230
TRIGGER RELAY 2
TB204P1
TB204
SP2074
TB200P1
TB200
JUNCTION
FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM B1B585 UNLESS SPECIFIED
ALL CABLES ARE OF TYPE A556AT 22 UNLESS SPECIFIED
CABLE IDENT: EVERY WIRE NUMBER IS PRECEDED BY THE ATA 100 DESCRIPTION 2591 AND FOLLOWED BY WIRE SIZE AND EMC CODE.

Figure 30

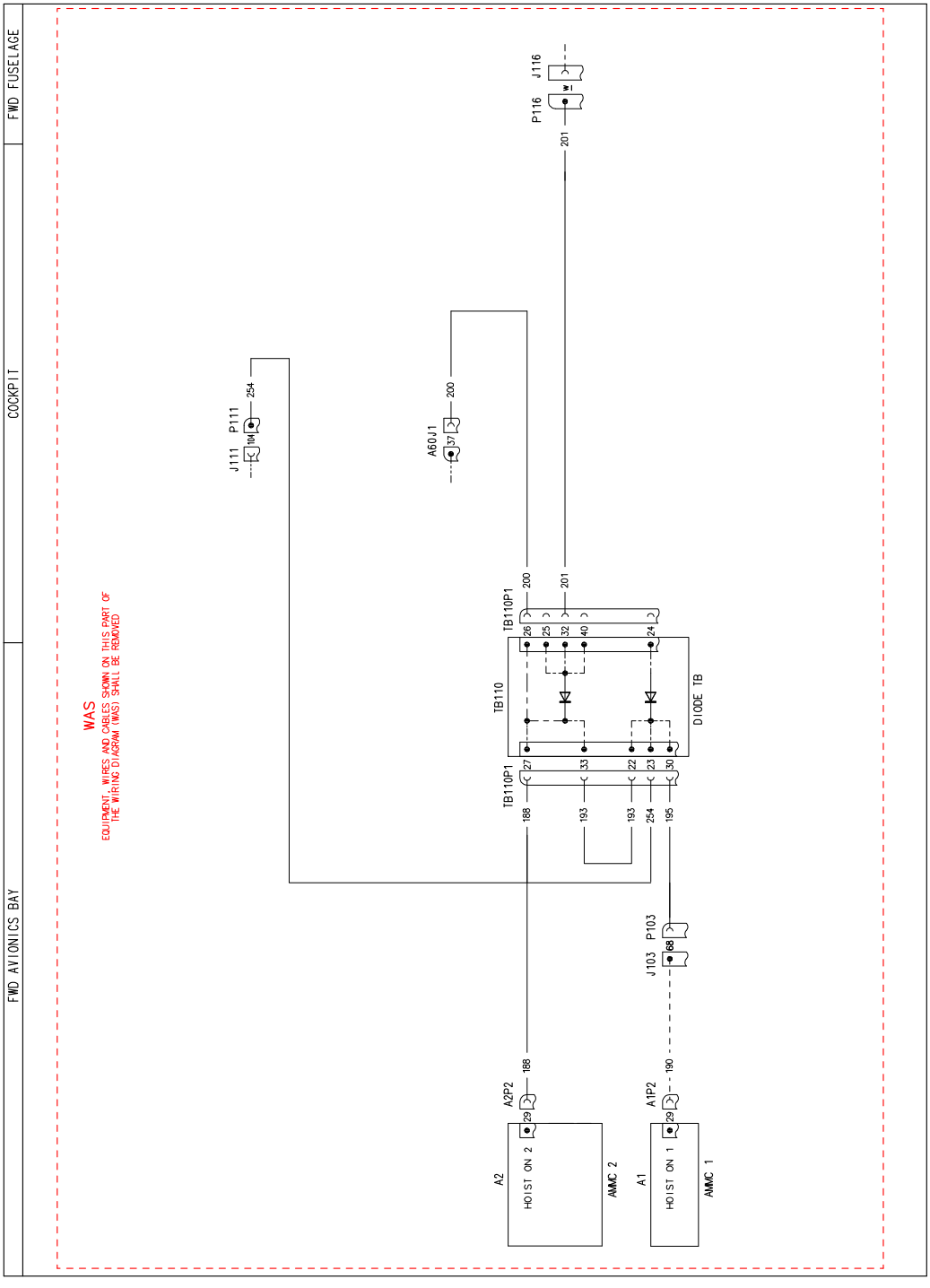

FWD AVIONICS BAY
COCKPIT
FWD FUSELAGE
WAS
EQUIPMENT, WIRES AND CABLES SHOWN ON THIS PART OF THE WIRING DIAGRAM (WAS) SHALL BE REMOVED
J111 P111 254
A60J1 200
P116 J116 201
TB110P1 200 201
TB110 26 25 32 40 24
DIODE TB
TB110P1 27 33 22 23 30
188 193 193 254 195
J103 P103 168
A2P2 188
A2 29
HOIST ON 2
AMMC 2
A1P2 190
A1 29
HOIST ON 1
AMMC 1
FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM A1B215 UNLESS SPECIFIED
ALL CABLES ARE OF TYPE AS56A1 22 UNLESS SPECIFIED
CABLE IDENT: EVERY WIRE NUMBER IS PRECEDED BY THE A1A 100 DESCRIPTION 2591 AND FOLLOWED BY WIRE SIZE AND EMC CODE.

Figure 31

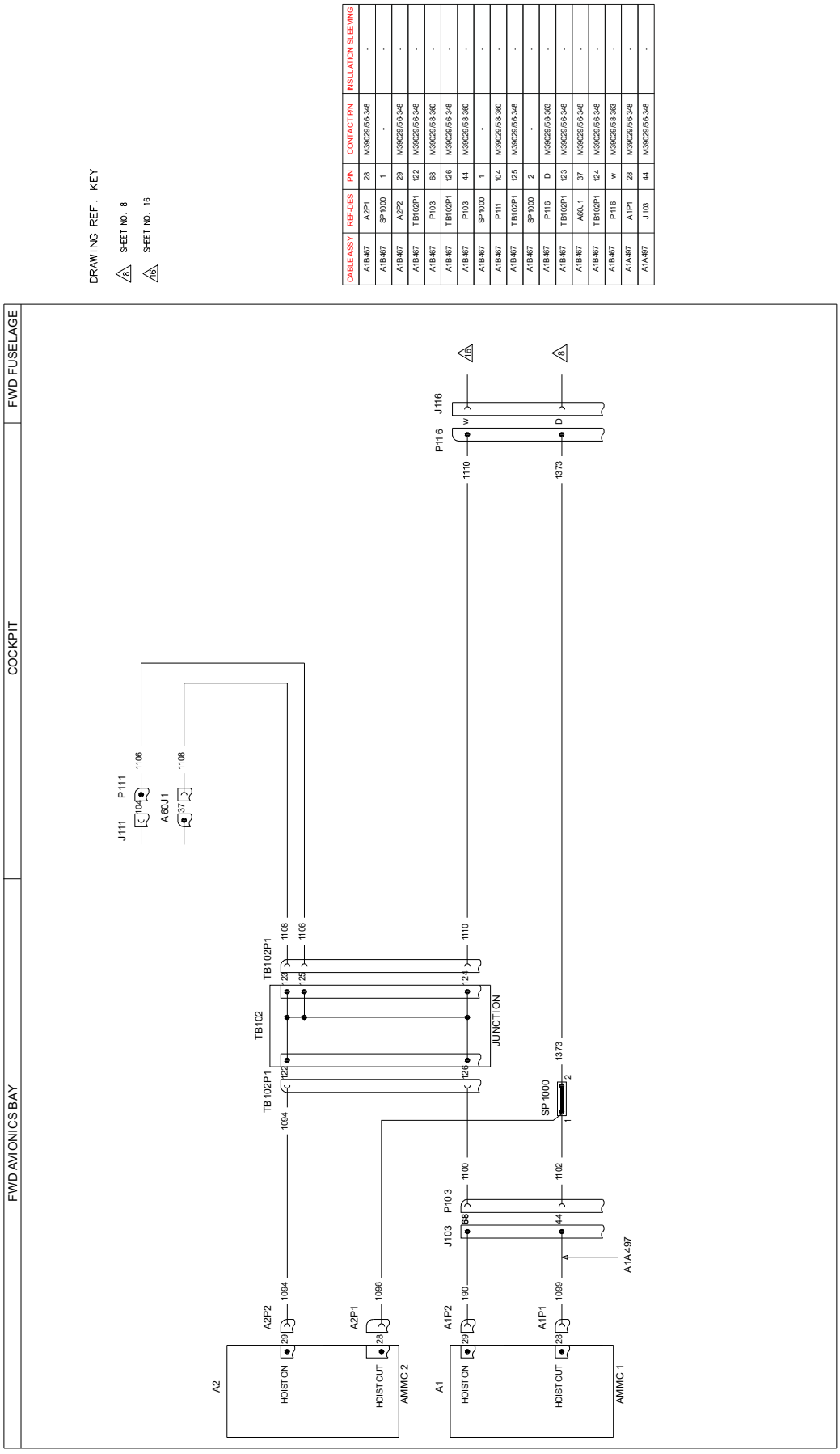

DRAWING REF. KEY
8 SHEET NO. 8
16 SHEET NO. 16
CABLE ASSY | REF-DES | PIN | CONTACT PN | INSULATION SLEEVING
A1B467 | A2P1 | 28 | M39029/56-348 | -
A1B467 | SP1000 | 1 | - | -
A1B467 | A2P2 | 29 | M39029/56-348 | -
A1B467 | TB102P1 | 122 | M39029/56-348 | -
A1B467 | P103 | 68 | M39029/56-360 | -
A1B467 | TB102P1 | 126 | M39029/56-348 | -
A1B467 | P103 | 44 | M39029/56-360 | -
A1B467 | SP1000 | 1 | - | -
A1B467 | P111 | 104 | M39029/56-360 | -
A1B467 | TB102P1 | 125 | M39029/56-348 | -
A1B467 | SP1000 | 2 | - | -
A1B467 | P116 | D | M39029/56-363 | -
A1B467 | TB102P1 | 123 | M39029/56-348 | -
A1B467 | A60J1 | 37 | M39029/56-348 | -
A1B467 | TB102P1 | 124 | M39029/56-348 | -
A1B467 | P116 | w | M39029/56-363 | -
A1A497 | A1P1 | 28 | M39029/56-348 | -
A1A497 | J103 | 44 | M39029/56-348 | -
FWD AVIONICS BAY
COCKPIT
FWD FUSELAGE
J111 P111 1106 104
A60J1 1108 37
TB102P1 1106 123 125
TB102 JUNCTION
TB102P1 1094 122 126
SP1000 1373 1 2
P116 J116 w D 1110 1373
P103 J103 68 44 1100 1102
A1A497
A2P2 1094 29
A2P1 1096 28
A2 HOIST ON HOIST CUT AMMC 2
A1P2 190 29
A1P1 1099 28
A1 HOIST ON HOIST CUT AMMC 1
FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM A1B467 UNLESS SPECIFIED
ALL CABLES ARE OF TYPE ASSAY 22 UNLESS SPECIFIED
CABLE IDENT.: EVERY WIRE NUMBER IS PRECEDED BY THE ATA 100 DESCRIPTION 2591 AND FOLLOWED BY WIRE SIZE AND EMC CODE.

Figure 32

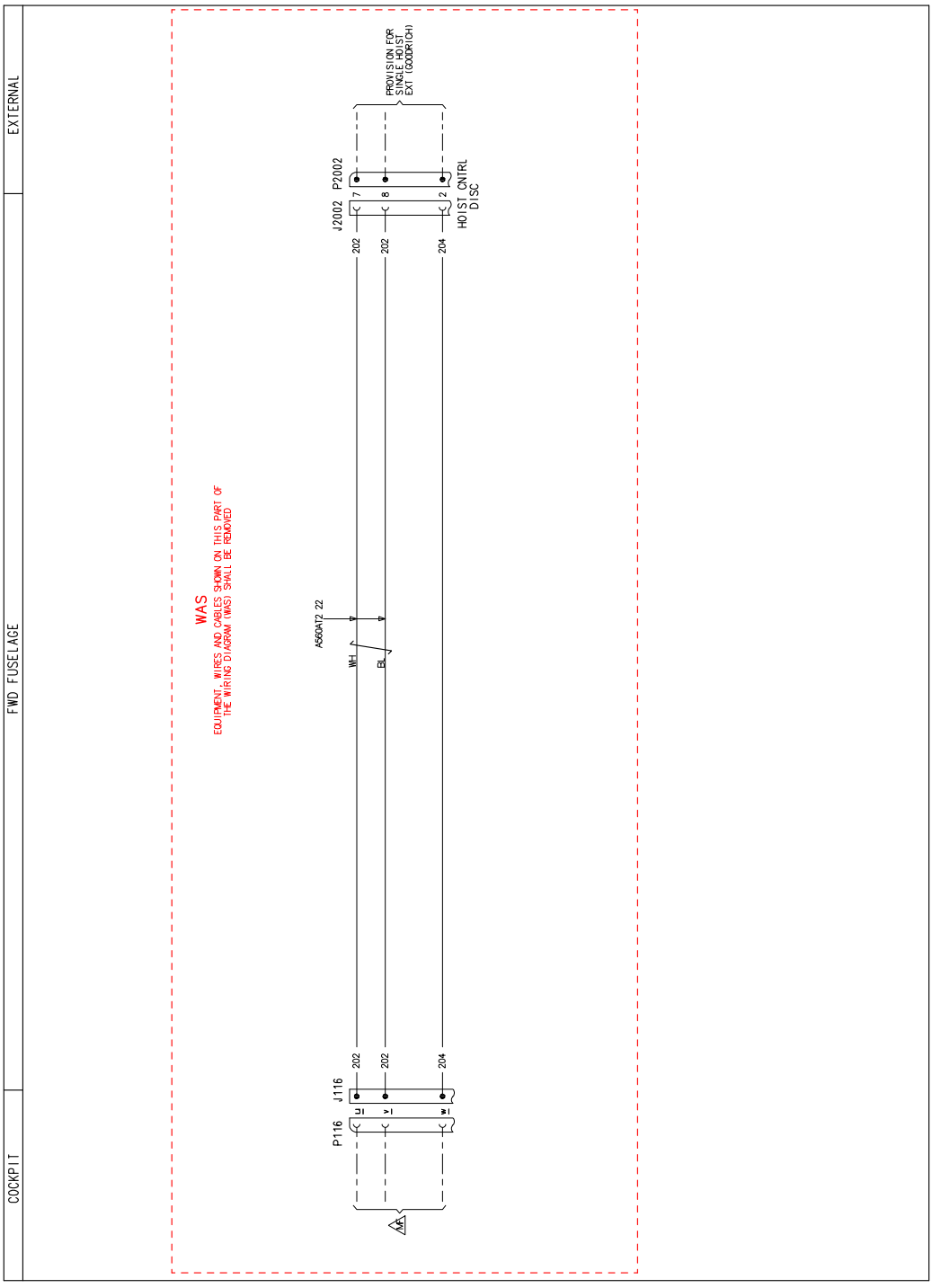
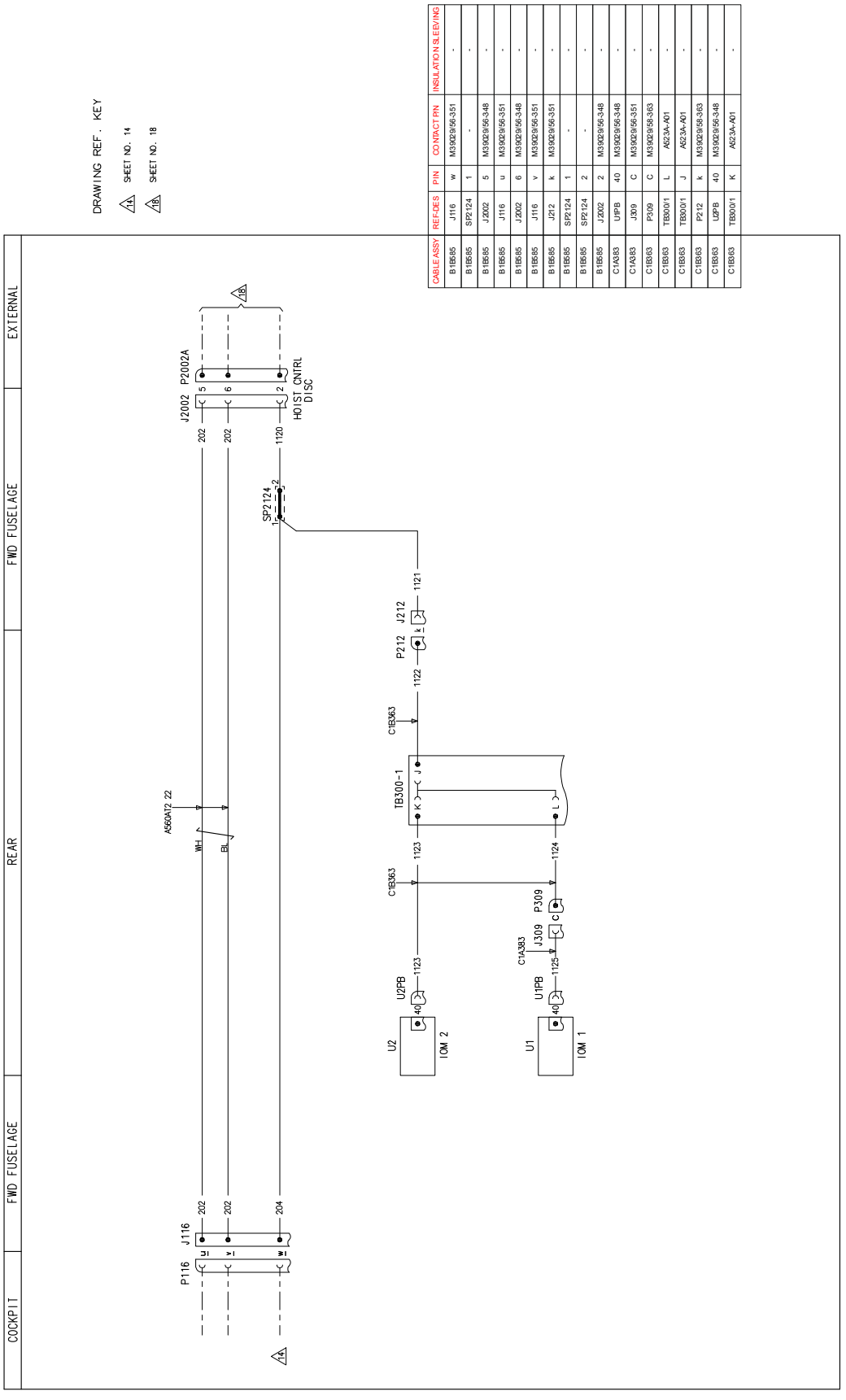
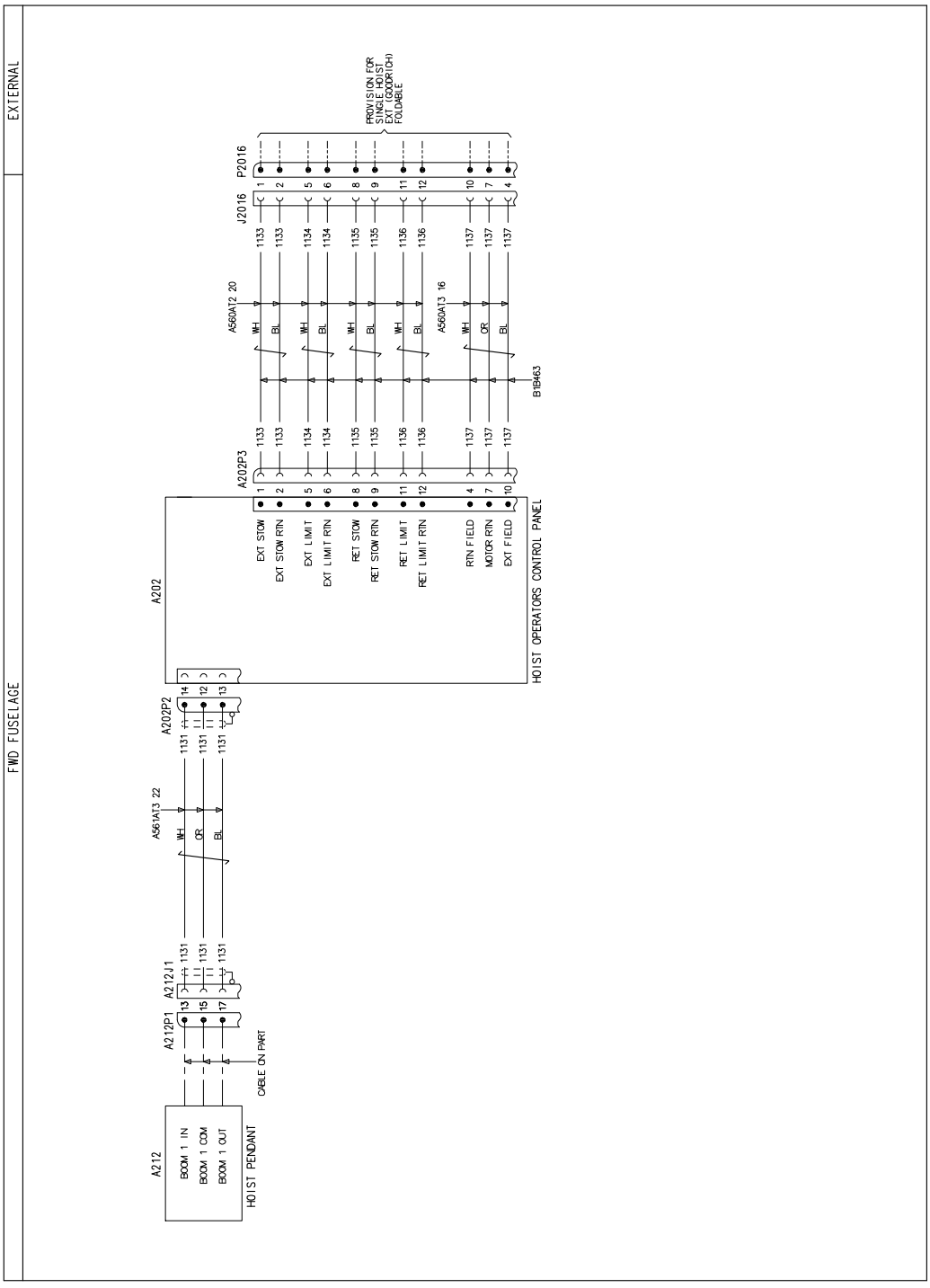

COCKPIT
FWD FUSELAGE
EXTERNAL
WAS
EQUIPMENT, WIRES AND CABLES SHOWN ON THIS PART OF THE WIRING DIAGRAM (WAS) SHALL BE REMOVED
P116
J116
202
202
204
A560A12 22
WH
BL
J2002
P2002
7
8
2
202
202
204
HOIST CNTRL DISC
PROVISION FOR SWITCH LIFT EXT (GOODRICH)
FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM B1P186 UNLESS SPECIFIED.
ALL CABLES ARE OF TYPE A556A1 22 UNLESS SPECIFIED
CABLE IDENT.: EVERY WIRE NUMBER IS PRECEDED BY THE A/A 100 DESCRIPTION 2591 AND FOLLOWED BY WIRE SIZE AND EMC CODE.

Figure 33



CABLE ASSY	REF-DES	PIN	CONTACT PIN	INSULATION SLEEVING
B1B585	J116	w	M39029/56-351	-
B1B585	SP2124	1	-	-
B1B585	J2002	5	M39029/56-348	-
B1B585	J116	u	M39029/56-351	-
B1B585	J2002	6	M39029/56-348	-
B1B585	J116	v	M39029/56-351	-
B1B585	J212	k	M39029/56-351	-
B1B585	SP2124	1	-	-
B1B585	SP2124	2	-	-
B1B585	J2002	2	M39029/56-348	-
C1A383	U1PB	40	M39029/56-348	-
C1A383	J309	C	M39029/56-351	-
C1B363	P309	C	M39029/58-363	-
C1B363	TB300/1	L	AS23A-A01	-
C1B363	TB300/1	J	AS23A-A01	-
C1B363	P212	k	M39029/58-363	-
C1B363	U2PB	40	M39029/56-348	-
C1B363	TB300/1	K	AS23A-A01	-

Figure 34



CABLE ASSY	REF-DES	PIN	CONTACT P/N	INSULATION SLEEVING
B1B585	A212J1	13	M39029/56-348	-
B1B585	A202P2	14	M39029/58-360	-
B1B585	A212J1	15	M39029/56-348	-
B1B585	A202P2	12	M39029/58-360	-
B1B585	A212J1	17	M39029/56-348	-
B1B585	A202P2	13	M39029/58-360	-
B1B463	A202P3	1	M39029/5-116	-
B1B463	J2016	1	M39029/5-115	-
B1B463	A202P3	2	M39029/5-116	-
B1B463	J2016	2	M39029/5-115	-
B1B463	A202P3	5	M39029/5-116	-
B1B463	J2016	5	M39029/5-115	-
B1B463	A202P3	6	M39029/5-116	-
B1B463	J2016	6	M39029/5-115	-
B1B463	A202P3	8	M39029/5-116	-
B1B463	J2016	8	M39029/5-115	-
B1B463	A202P3	9	M39029/5-116	-
B1B463	J2016	9	M39029/5-115	-
B1B463	A202P3	11	M39029/5-116	-
B1B463	J2016	11	M39029/5-115	-
B1B463	A202P3	12	M39029/5-116	-
B1B463	J2016	12	M39029/5-115	-
B1B463	A202P3	4	M39029/5-116	-
B1B463	J2016	10	M39029/5-116	-
B1B463	A202P3	7	M39029/5-116	-
B1B463	J2016	7	M39029/5-116	-
B1B463	A202P3	10	M39029/5-116	-
B1B463	J2016	4	M39029/5-116	-

FUNCTIONAL NOTES

ALL CABLES ARE IN LOOM B1B585 UNLESS SPECIFIED.
ALL CABLES ARE OF TYPE A561AT3 22 UNLESS SPECIFIED.
CABLE IDENT.: EVERY WIRE NUMBER IS PRECEDED BY THE ATA 100 DESCRIPTION 2591 AND FOLLOWED BY WIRE SIZE AND EMC CODE.

Figure 35

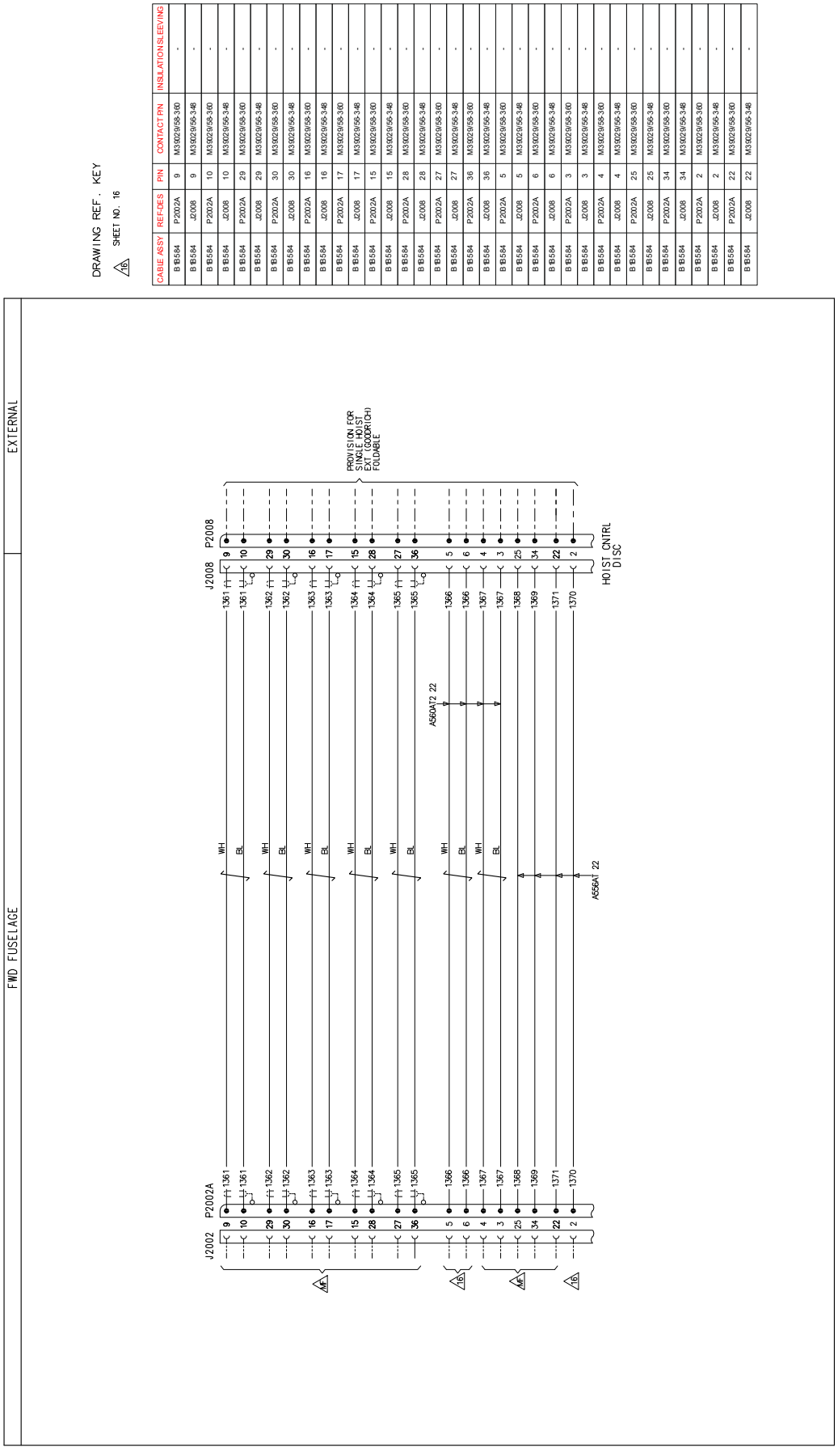

DRAWING REF. KEY
SHEET NO. 16
CABLE ASSY | REF-DES | PIN | CONTACT PIN | INSULATION SLEEVING
B B584 | P2002A | 9 | M39029/58-360 | -
B B584 | J2008 | 9 | M39029/56-348 | -
B B584 | P2002A | 10 | M39029/58-360 | -
B B584 | J2008 | 10 | M39029/56-348 | -
B B584 | P2002A | 29 | M39029/58-360 | -
B B584 | J2008 | 29 | M39029/56-348 | -
B B584 | P2002A | 30 | M39029/58-360 | -
B B584 | J2008 | 30 | M39029/56-348 | -
B B584 | P2002A | 16 | M39029/58-360 | -
B B584 | J2008 | 16 | M39029/56-348 | -
B B584 | P2002A | 17 | M39029/58-360 | -
B B584 | J2008 | 17 | M39029/56-348 | -
B B584 | P2002A | 15 | M39029/58-360 | -
B B584 | J2008 | 15 | M39029/56-348 | -
B B584 | P2002A | 28 | M39029/58-360 | -
B B584 | J2008 | 28 | M39029/56-348 | -
B B584 | P2002A | 27 | M39029/58-360 | -
B B584 | J2008 | 27 | M39029/56-348 | -
B B584 | P2002A | 36 | M39029/58-360 | -
B B584 | J2008 | 36 | M39029/56-348 | -
B B584 | P2002A | 5 | M39029/58-360 | -
B B584 | J2008 | 5 | M39029/56-348 | -
B B584 | P2002A | 6 | M39029/58-360 | -
B B584 | J2008 | 6 | M39029/56-348 | -
B B584 | P2002A | 3 | M39029/58-360 | -
B B584 | J2008 | 3 | M39029/56-348 | -
B B584 | P2002A | 4 | M39029/58-360 | -
B B584 | J2008 | 4 | M39029/56-348 | -
B B584 | P2002A | 25 | M39029/58-360 | -
B B584 | J2008 | 25 | M39029/56-348 | -
B B584 | P2002A | 34 | M39029/58-360 | -
B B584 | J2008 | 34 | M39029/56-348 | -
B B584 | P2002A | 2 | M39029/58-360 | -
B B584 | J2008 | 2 | M39029/56-348 | -
B B584 | P2002A | 22 | M39029/58-360 | -
B B584 | J2008 | 22 | M39029/56-348 | -
EXTERNAL
FWD FUSELAGE
J2002
P2002A
J2008
P2008
PROVISION FOR SINGLE HOIST EXT (GOODRICH) FOLDABLE
HOIST CNTRL DISC
A56DAT2 22
A56AT 22
FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM B3B584 UNLESS SPECIFIED
ALL CABLES ARE OF TYPE A56IAT2 22 UNLESS SPECIFIED
CABLE IDENT: EVERY WIRE NUMBER IS PRECEDED BY THE ATA 100 DESCRIPTION 2591 AND FOLLOWED BY WIRE SIZE AND EMC CODE.

Figure 36

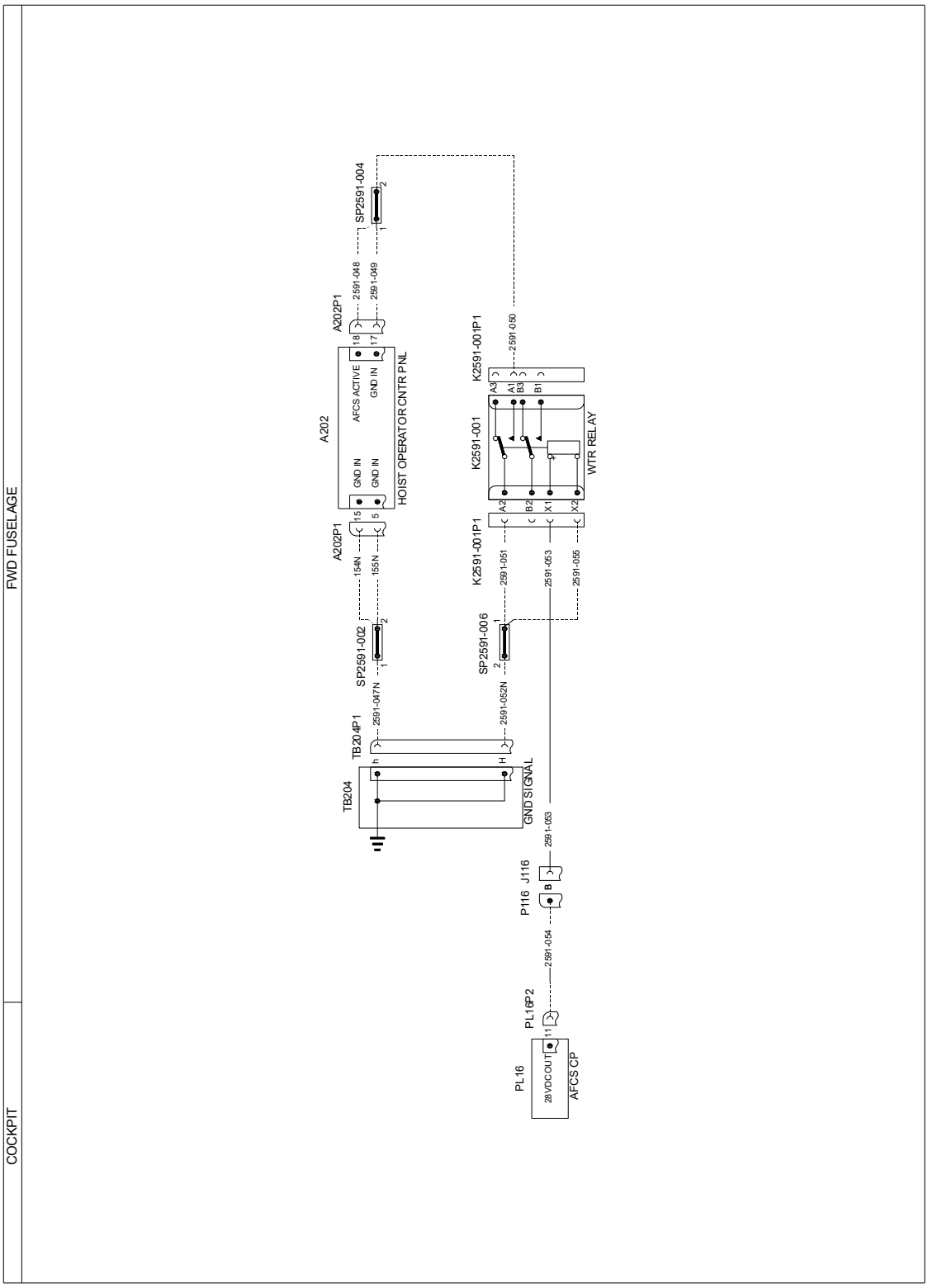

COCKPIT
FWD FUSELAGE
A202P1
18
17
2591-048
2591-049
SP2591-004
2
1
A202
GND IN
AFCS ACTIVE
GND IN
HOIST OPERATOR CNTR PNL
15
5
A202P1
154N
155N
SP2591-002
2
1
2591-047N
TB204P1
h
H
TB204
GND SIGNAL
K2591-001P1
2591-050
A3
A1
B3
B1
K2591-001
A2
B2
X1
X2
WTR RELAY
K2591-001P1
2591-051
2591-053
2591-055
SP2591-006
2
1
2591-052N
259-053
P116 J116
B
2591-054
PL16P2
11
PL16
28VDC OUT
AFCS CP
FUNCTIONAL NOTES
ALL CABLES ARE OF TYPE A556AT 22 UNLESS SPECIFIED

Figure 37

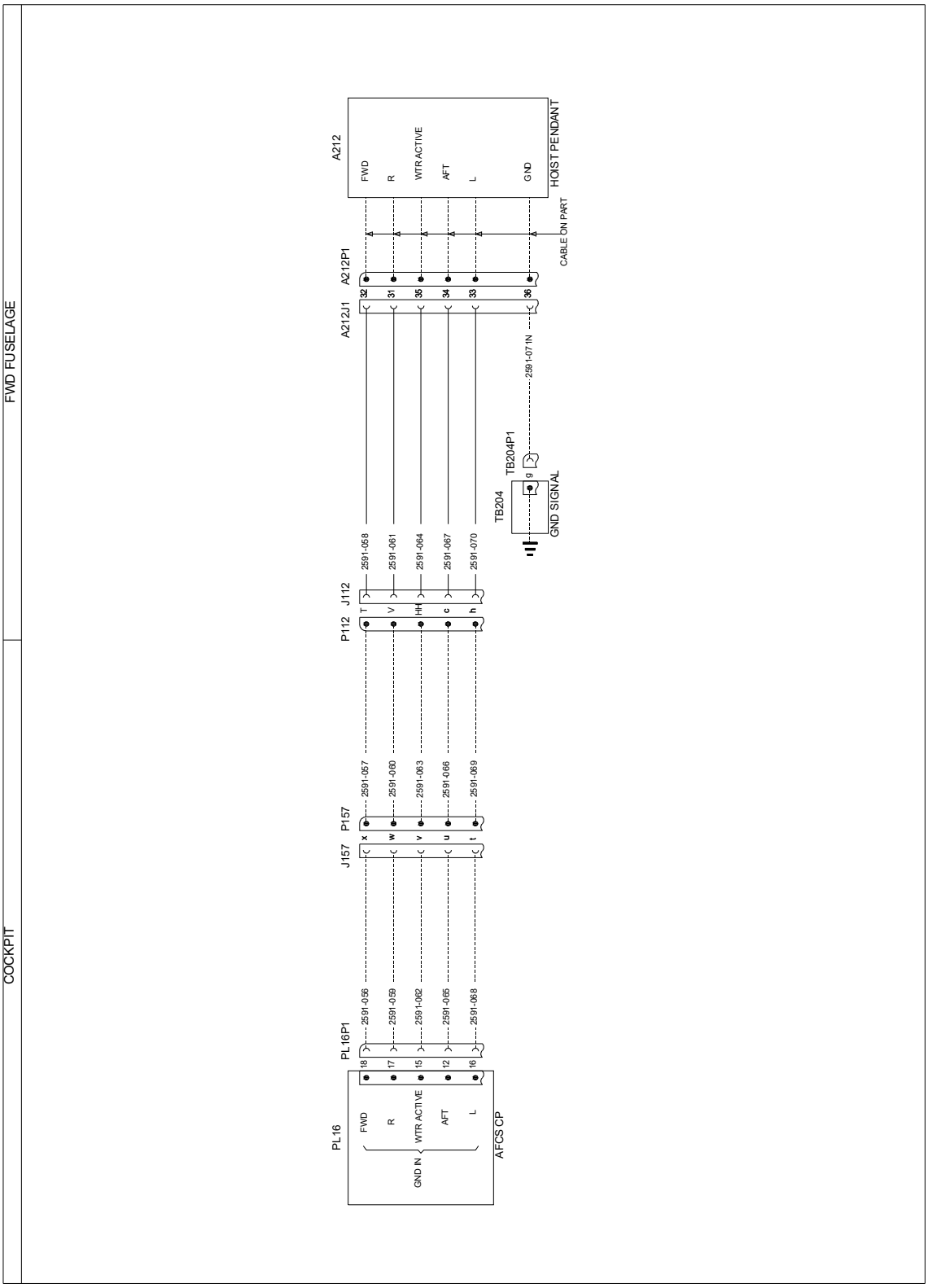

FWD FUSELAGE
COCKPIT
A212
FWD
R
WTR ACTIVE
AFT
L
GND
HOIST PENDANT
CABLE ON PART
A212P1
A212J1
32
31
35
34
33
36
2591-070 TN
TB204P1
g
TB204
GND SIGNAL
P112
J112
T
V
HH
c
h
2591-058
2591-061
2591-064
2591-067
2591-070
P157
J157
x
w
v
u
t
2591-057
2591-060
2591-063
2591-066
2591-069
PL16P1
18
17
15
12
16
2591-056
2591-059
2591-062
2591-065
2591-068
PL16
FWD
R
WTR ACTIVE
AFT
L
GND IN
AFCS CP
FUNCTIONAL NOTES
ALL CABLES ARE OF TYPE A556AT 22 UNLESS SPECIFIED

Figure 38

ANNEX A

EMC ACCEPTANCE TEST PROCEDURE

1.1 PRE-TEST REQUIREMENTS

Prior to commencement of the EMC Test the following pre-requisites must be satisfied with:

- Aircraft in “Fit for Flight” condition: all functional **ATP’s successfully completed**.
- The **STTE** indicated in Table A below need to be available and properly set up for the on ground activity in external power:
  - The **External Power Supply** shall be available, installed, and ready to be activated.
  - The **Hydraulic Bench** shall be available, installed, and ready to be activated.
  - **Weight On Wheels/Skid device** connected to allow the simulation of the flight condition (switches shall be closed) when necessary.
- STTE (NAV simulators) shall be positioned far from helicopter (more than 10mt).
- STTE (NAV simulators) shall be set at the minimum output power level in order to have the threshold received signal on board. Transceivers guard frequencies shall be enabled (when the option is present).
- ICS, transceivers and receivers shall be set with volume at 60% or operational threshold and VOX at 10%.
- Personnel Availability:
  - **To satisfy the above pre-requisites dedicated Specialists who:**
    - **are knowledgeable about the functional operation of the helicopter,**
    - **and the functional operation of the STTEs**

    are required during the execution of the tests.
- During the execution of the ATP the test personnel must remain inside the helicopter, doors closed and no personnel outside must be within 10mt from the helicopter.
- The **STTE** indicated in Table A below need to be available and properly set up for the on ground activity in external power:
  - Replace **EFS** (if installed kit P/Ns 8G9560F00111, 8G9560F00211) **connection to Smart Memory Alloy** (SMA) Electro Activated Device (EAD) with a test cable containing an equivalent fuses.

    The integrity of the fuse heads shall be verified prior to the start of the test and at the end of each step.

    For details on test cable construction, installation, and verification procedure see Annex B.

Table A– Test Equipment

STTE	MODEL	CONDITION	NOTE
GS, LOC, VOR, MKR	AEROFLEX IFR 4000 (or equivalent)	Simulator Box available at Helicopter proximity.	This STTE simulates the navigation signals.
DME, Transponder, TCAS	AEROFLEX IFR 6000 (or equivalent)	Simulator Box available at Helicopter proximity.	This STTE simulates the identity code, distance value and air traffic.
External Power Supply	ROTODYNE 110-6 (or equivalent)	External Power Supply Bench installed and ready to be activated. Specialists are required to install and operate the simulator	This bench powers on the helicopter on ground.
WOW	LH	WOW simulator switches installed and activated if necessary. Specialists are required to install WOW simulator switches,	This STTE permits to simulate the flight condition.
EFS EAD Test Cable	LH	EFS EAD Test Cables installed. Specialists are required to install and verify the test cables.	This STTE permits to simulate the EFS EAD.
25 kg load	LH	See procedure in §1.7.	For Cargo Hook Test
Activated SIM Card	LH	See procedure in §1.10	For KIT SATCOM SKYTRAC ISAT 200 A STAND ALONE and KIT SATCOM SKYTRAC (EDCU CONTROL) - ISAT 200A. Verify that a contract of activation for the ISAT-200A Transceiver LRU has been signed. Contact SkyTrac at the following address (TechSupport@skytrac.ca) providing the S/N of the Transceiver, the S/N of the corresponding ITRAY, the SIM number, and asking to check the activation of the LRU. For any doubt refer to the following link: http://www.skytrac.ca/customer-support/.

Perform the transmission with the following RF Source while check the Victim Table reported in Table D and the Victim part of procedure §1.8.

Table B – Other Frequency transmitting Sources

TRANSMITTERS SOURCES	MODE	INSTALLED	A EXP	A FLT
Radar Altimeter #1	Tx			
Radar Altimeter #2	Tx			
DME	Tx			
Transponder	Tx			
TCAS II	Tx			
Weather Radar RDR-1600 (Antenna Tilt ±15°)	Tx			
VHF 2 Transmit for 5 second on frequencies reported in table below	Tx			

Table C– VHF Transceivers

COMM VHF #2 Collins 4000 E				
Frequency [MHz] (*)	MODE	CS [KHz]	A EXP	A FLT
118.150	AM	25	■	
119.150	AM	25		■
120.150	AM	25	■	
121.150	AM	25		■
122.150	AM	25	■	
123.150	AM	25		■
124.150	AM	25	■	
125.150	AM	25		■
126.150	AM	25	■	
127.150	AM	25		■
128.150	AM	25	■	
129.150	AM	25		■
130.150	AM	25	■	
131.150	AM	25		■

132.150	AM	25		
133.150	AM	25		
134.150	AM	25		
135.150	AM	25		
136.150	AM	25		
140.150	AM	25		
142.150	AM	25		
149.150	AM	25		
150.650	AM	25		

Perform the Activation Source reported below while check the Victims part of procedure §1.8.

KITS NDC	
KIT ELT DEPLOYABLE (P/N 8G2560F00311, 8G2560F01411)	1.2
KIT DF FOR BASIC FUSELAGE DF 935-11 (P/Ns 8G3450F01211, 8G3450F00511)	1.3
KIT UPPER / LOWER ANTICOLLISION LIGHT (P/Ns 8G3340F01811, 8G3340F01611)	1.4
KIT FIN MOUNTED CAMERA (P/Ns 8G9750F00111, 8G9750F00311)	1.5
KIT EMERGENCY FLOTATION SYSTEM (P/Ns 8G9560F00111, 8G9560F00211)	1.6
KIT CARGO HOOK CAMERA (P/Ns 8G9770F00111, 8G9770F00211)	1.7
KIT (FOLDABLE) SINGLE-DUAL HOIST CAMERA (P/Ns 8G9750F00711, 8G9750F00611, 8G9750F00411)	1.8
KIT HF RADIO (P/Ns 8G2310F00311, 8G2310F00611)	1.9
KIT SATCOM ISAT-200 (P/N 8G4390F00511)	1.10
KIT TCAS II TTR4000, RC TTR4100 (P/Ns 8G3450F00111, 8G3450F00411)	1.11
KIT 2ND ADF (P/N 8G3400F00111)	1.12
KIT HEELS (P/Ns 4F3350F00111, 8G3350F00311, 8G3350F00411. 8G3350F00211)	1.13
KIT RADIO VHF/FM MARITIME NPX138 (P/N 8G2310F00211)	1.14
KIT ICS POLYCON NEW GENERATION	1.15

1.2 KIT ELT DEPLOYABLE (P/N 8G2560F00311, 8G2560F01411)

SYSTEM CONDITION	MODE OF OPERATION	SUSCEPTIBILITY CRITERIA	INSTALLED	A_{EXP}	A_{FLT}	§ 1.8
ELT ON (source)	Functioning (Breaker IN). Set the CPI Beacon in Interseat Console	**§1.8**				[redacted]
ELT ON (victim)	Armed monitoring the TX/Test and Beacon Gone lights on CPI	– Verify that a tone is not audible on the headset – Check on the CPI Beacon in Interseat Console that TX/TEST lights (TX and Deploy) are not illuminated.				

1.3 KIT DF FOR BASIC FUSELAGE DF 935-11 (P/Ns 8G3450F01211, 8G3450F00511)

SYSTEM CONDITION	MODE OF OPERATION	SUSCEPTIBILITY CRITERIA	INSTALLED	A_{EXP}	A_{FLT}	§ 1.8
DIRECTION FINDER ON (Source)	On ECDU select the NAV CB page, select the DF ON. On either pilot or co-pilot MCDU, select the TUNE hard key. Use the PREV and NEXT hard keys to select page 3/3. Select the DF soft key. On the MCDU select page 2/2. Select the TEST soft key. Confirm that the DF Status changes to TEST, indicating test in progress. After a few seconds, confirm that the DF TEST RESULT = PASS On the Audio Panel select the DF audio Ensuring that the Bearing Pointer source is set as `DF'. configure the cockpit DUs to display Bearing Pointer information. Confirm that the Bearing Pointer is not displayed. Using the DF Manual Tune, select either a local beacon or tune to a locally generated signal (signal generator). Set DF on following frequencies: • 121.500 MHz • 243.000 MHz • 406.000 MHz Ensure that the modulation pertaing to the signal source can be heard and that the Bearing Pointer displays the correct heading.	§1.8				
DIRECTION FINDER ON (Victim)	Same steps as above.	On MFD, EDCU, ICS, verify: Change in Status. Loss of Audio or distortion.				

SYSTEM CONDITION	
MODE OF OPERATION	
SUSCEPTIBILITY CRITERIA	Change in displayed heading. Spurious “Alerts”.
INSTALLED	
A_{EXP}	
A_{FLT}	
§ 1.8	

1.4 KIT LOWER ANTICOLLISION LIGHT (P/Ns 8G3340F01811, 8G3340F01611)

SYSTEM CONDITION	MODE OF OPERATION	SUSCEPTIBILITY CRITERIA	INSTALLED	A_{EXP}	A_{FLT}	§ 1.8
LOWER ANTICOLLISION LIGHT (Source)	On Miscellaneous and Lighting control panel, select DAY. Strobe Emitting (Norm): via EDCU, Menu, Lights Select A/COLL SYS switch to ON. Select UPPER/BOTH switch to BOTH. Select HISL switch to ON (Underbelly now flashes White).	§1.8				
LOWER ANTICOLLISION LIGHT (Victim)	Same steps as above.	On the Light, verify: Loss of light. Change in strobe repetition rate.				

1.5 KIT FIN MOUNTED CAMERA (P/Ns 8G9750F00111, 8G9750F00311)

SYSTEM CONDITION	MODE OF OPERATION	SUSCEPTIBILITY CRITERIA	INSTALLED	AEXP	AFLT	§ 1.8
FIN MOUNTED CAMERA (Source) ON	On ECDU select Cameras to ON. On the CPLT MFD push the Video button and ensure Camera is displayed.	§1.8				[redacted]
FIN MOUNTED CAMERA (Victim) ON	Same steps as above.	On MFD, verify: Loss of, or Image degradation.				

1.6 KIT EMERGENCY FLOTATION SYSTEM (P/Ns 8G9560F00111, 8G9560F00211)

Note: Before performing any activity ensure that the **EED's are disconnected** and substituted with the four calibrated fuses. See §1.1 and Annex B for details.

SYSTEM CONDITION	MODE OF OPERATION	SUSCEPTIBILITY CRITERIA	INSTALLED	A_{EXP}	A_{FLT}	§ 1.8
EFS ON (source)	Verify that Emergency Float LH and RH Circuit Breaker are pushed in. Select "ARMED" on the Emergency Flotation Control Panel. Lift the flap of the FLOAT switch placed in the Collective Sticks for both the PLT and CPLT sides.	**§1.8**				[redacted]
EFS ON (victim)	Same steps as above.	On post trial inspection of Fuse, verify unintentional deployment verified by Fuses.				

1.7 KIT CARGO HOOK CAMERA (P/Ns 8G9770F00111, 8G9770F00211)

SYSTEM CONDITION	MODE OF OPERATION	SUSCEPTIBILITY CRITERIA	INSTALLED	A_{EXP}	A_{FLT}	§ 1.8
CARGO HOOK CAMERA ON (source)	On ECDU select both CB/HOOK CAM 1 and HOOK CAM 2 to On. On the CPLT MFD select Video and Monitor the camera display.	§1.8				[redacted]
CARGO HOOK CAMERA ON (victim)	Same steps as above.	On MFD, Cargo Hook, verify red LED Flashing, spurious Transmission on Emergency Channel.				

1.8 KIT FOLDABLE SINGLE HOIST (P/N 8G2591F00211)

Perform the Activation Source reported below while check the Victim Table C, Table D and the Victim part of procedure of Kits

SYSTEM CONDITION	MODE OF OPERATION	SUSCEPTIBILITY CRITERIA	INSTALLED	AEXP	AFLT	Table B	Table C	Table D	Kits Procédures
KIT FOLDABLE SINGLE HOIST (Source)	Power On Hoist Control Panel On PLT/CPLT Collective Grip: Hoist Down /Up On Hoist Pendant : Hoist Down /Up	-							
KIT FOLDABLE SINGLE HOIST (Victim)	Same as above	Unjustified cable movement Hoist cable length indication variation.							

1.9 KIT HF RADIO (P/Ns 8G2310F00311, 8G2310F00611)

Special Recommendations

Verify that no one is standing on the ground near the aircraft or touching the aircraft: the entire airframe becomes part of the antenna. Anyone standing on the ground could receive an electrical shock if touching the aircraft, or if entering or exiting the aircraft during a transmission by the KIT HF RADIO. Do not operate the HF system while the aircraft is being fueled.

SYSTEM CONDITION	MODE OF OPERATION	SUSCEPTIBILITY CRITERIA	INSTALLED	A_{EXP}	A_{FLT}	§ 1.8
HF RADIO ON (Source)	1. On ECDU: a. Select the Comm CB page b. Select the HF and HF Antenna ON 2. On Audio Panels: a. Select and adjust the HF Radio audio b. Select the HF for TX. 3. On PLT MCDU: a. Into TUNE page, press NEXT until HF Tune data are displayed. b. Select the TX frequency reported below in AM/SSB/CW modulation c. Into HF SETTING page set transmit power to high (HI)	§1.8				[redacted]
HF RADIO ON (Victim)	Same steps above.	On Headset, MCDU, PFD and RCP verify: Unintentional transmission, Breaking of receiver squelch, No Sidetone, No reception, Change in frequency.				

Frequency (MHz)	Victim equipment	Modulation	Result			
			Tx		Rx	
			EP	ER	EP	ER
2(*)	-	AM/USB/CW				
7(*)						
12.5						
13						
13.5						
19.5						
21						
22						
24,3						
27						
29						
29.9999(*)			(*)			

1.10 KIT SATCOM ISAT-200 (P/N 8G4390F00511)

SYSTEM CONDITION	MODE OF OPERATION	SUSCEPTIBILITY CRITERIA	INSTALLED	AEXP	AFLT	§ 1.8
SATCOM ISAT-200 ON (Source)	• On EDCU, in Breakers/COMM page, push ON the COMM SATCOM CB • On ICS Control Panel enable COM7 ("SAT") SATELLITE CALL • On ACP53 Audio Control Panel enable the telephone audio by the SAT button • On DVI-300 dial the required number (e.g. 0039....) in the "Phone" submenu and press SEND Key to dial the entered number • Use the PTT to talk • Press the SEND pushbutton to hang up / terminate the call and release the PTT button. GPS SIGNAL VERIFICATION (*) • On the Cockpit Display Panel (CDP-300) enter the Main Menu ▶ System ▶ System Setup ▶ ISAT Info and choose "Status and Config".	§1.8				
SATCOM ISAT-200 ON (Victim)	Same steps above.	On Headset, Control Panel, RCP verify Unintentional transmission, Breaking of receiver squelch, No Sidetone, No reception Change in frequency Verify that the GPS information retrieved is				

SYSTEM CONDITION	MODE OF OPERATION	SUSCEPTIBILITY CRITERIA	INSTALLED	AEXP	AFLT	§ 1.8
		coherent to that displayed on EDCU.				

Note: For a good reception of the Iridium satellite network, during on ground test, it is needed to place the helicopter outside the hangar in a proper parking area far from buildings or any obstructions.

1.11 KIT TCAS II TTR4000, RC TTR4100 (P/Ns 8G3450F00111, 8G3450F00411)

SYSTEM CONDITION	MODE OF OPERATION	SUSCEPTIBILITY CRITERIA	INSTALLED	AEXP	AFLT	§ 1.8
TCAS II TX/RX (Source)	On the ECDU select the TCAS" CB to "ON" Configure to transmit on all modes Set the traffic page. Set maximum NM scale available.	**§1.8**				
TCAS II TX/RX (Source)	Set modes and scale as required by flight conditions	**§1.8**				
TCAS II TX/RX (Victim)	Same steps above.	Verify that the Intruders Position does not display a non-existent intruder and/or unreliability of the positions of the real intruder.				

1.12 KIT 2ND ADF (P/N 8G3400F00111)

SYSTEM CONDITION	MODE OF OPERATION	SUSCEPTIBILITY CRITERIA	INSTALLED	A_{EXP}	A_{FLT}	§ 1.8
2ND ADF ON (Source)	• Set frequency 364 kHz or an available NDB ground station frequency in [ADF] fields - [TUNE] page. • Show the information by [BRG] button and verify [ADF2] remark on HSI (PFD display).	§1.8				[redacted]
2ND ADF ON (Victim)	Same steps above.	On MFD, PFD, ICS, AMMC, MCDU, headphone verify: • loss or misleading navigation information. • Variation of displayed distance to go. • Variation in displayed bearing.				

Note: the selected frequencies shall be recorded for inclusion within the report. Verify performance at the maximum beacon range.

1.13 KIT HEELS (P/Ns 4F3350F00111, 8G3350F00311, 8G3350F00411, 8G3350F00211)

SYSTEM CONDITION	MODE OF OPERATION	SUSCEPTIBILITY CRITERIA	INSTALLED	A_{EXP}	A_{FLT}	§ 1.8
KIT HEELS (Source)	Emergency lights ON System armed Internal battery full charge	§1.8				[redacted]
KIT HEELS (Victim)	Same as above	Unjustified operation.				

1.14 KIT RADIO VHF/FM MARITIME NPX138 (P/N 8G2310F00211)

SYSTEM CONDITION	MODE OF OPERATION	SUSCEPTIBILITY CRITERIA	INSTALLED	AEXP	AFLT	§ 1.8
KIT Radio VHF/FM Maritime NPX138 (Source)	Set the Radio VHF/FM Maritime NPX138 in TX on the frequencies eported on table below	§1.8				
KIT Radio VHF/FM Maritime NPX138 (Victim)	Set the Radio VHF/FM Maritime NPX138 on RX on the frequencies eported on table below	Unintentional transmission, Breaking of receiver squelch, No Sidetone, No reception Change in frequency				

Table – Radio Transmissions / Listening Checks, NAT NPX-138

Frequency (MHz)	Result			
	Tx		Rx	
	EP	ER	EP	ER
138.150				
156.150				
165.150				
173.150				

1.15 KIT ICS POLYCON NEW GENERATION (P/Ns 8G2591F00111, 8G2350F00811, 8G2350F01311, 8G2350F01511, 8G2350F01611)

SYSTEM CONDITION	MODE OF OPERATION	SUSCEPTIBILITY CRITERIA	INSTALLED	AEXP	AFLT	§ 1.8
KIT ICS Polycon New Generation (Source)	Select Polycon CB to ON Verify the Polycon Base Station automatically powers on and the green POWER LED is illuminated: Press the side-mounted "ON/Volume up" button. Verify that the transceiver switches ON. Confirm that the long start-up indication tone is heard in the headset. Ensure that Audio Headsets are connected to the Polycon Transceiver. Speak through the operator headset connected to the portable Polycon Transceiver MP50 (PTT selection not needed) in channel #1. Verify that the communication is clearly heard in both the pilot/co-pilot headset connected to the main ICS. Repeat for channel #2.	§1.8				[redacted]
KIT ICS Polycon New Generation (Victim)	Same as above	Interference, No Sidetone, No reception Change in channel				

Check the Victim Table reported below while Perform the Source Activation part of procedure §1.8.

Table D – Electromagnetic Victims

EQUIPMENT	SUSCEPTIBILITY CRITERIA	PARAMETERS	RESULTS § 1.8
TC Equipment			
RADIO ALTIMETER	Loss or deviation in indicated height ±5ft	PFD, MFD, AFCS CP	
DME	Loss or misleading navigation information. Variation of displayed distance to go Variation in displayed bearing	PFD, ICS, AMMC, MCDU	
VHF Radio (COM 2) (118 to 152 MHz)	Breaking of receiver squelch, No Sidetone, No reception Change in frequency	Headset, ECDU, PFD, RCP	

ANNEX B

FUSE TEST CABLE INSTALLATION AND VERIFICATION PROCEDURE

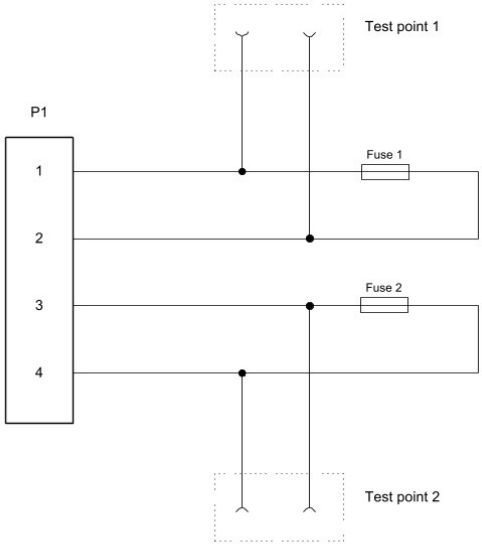
B1 FLOATATION EAD INSTALLATION AND VERIFICATION PROCEDURE FOR GROUND AND FLIGHT

To perform the assessment of the Floatation pin-puller is mandatory to build a test cable in order to substitute the connection to the Smart Memory Alloy (SMA) with an equivalent simulator (fuse).

BA1.1 Test Cable

The electrical wiring to be used to build the test cable is reported below with a picture that shown a final test cable.

NOTE: Two test cables are necessary to carry out the EMC tests. One for each of the two bottles.



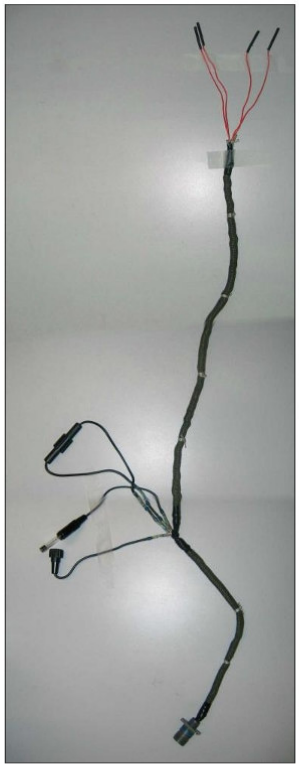


Figure 1: Test Cable and Schematic

Here below is reported, for reference only, the list of possible components necessary to build one test cable.

Table E– Test Cable Components List

Reference point (see Figure 1)	Item	P/N	Quantity
Connector P1	MALE Connector	D38999/20WA35PN	1
	Backshell	A530A4A09	1
Fuse 1 & 2	fuse in line carrier (Littelfuse)	360-7294 (RS code)	2
	fuse type 250V 160mA - 6,3x32 - glass, fast OMEGA	CF632116	2
Test point 1 & 2	Socket	M39029/56-350	4
	Heatshrinkable tubing	M23053/5	4
Junction Test point 1 (2) and Fuse 1 (2)	Splices	M81824/1-1	4
-	Wire (AWG 22)	A556-T22	see cable length
-	Tubing, braided, wrap around	A525A04-5	see cable length
-		A525A08-5	see cable length
-	Cable Lacing	04953 (follow NTA681A)	as required

In Figure 2 are reported the lengths of the test cable.

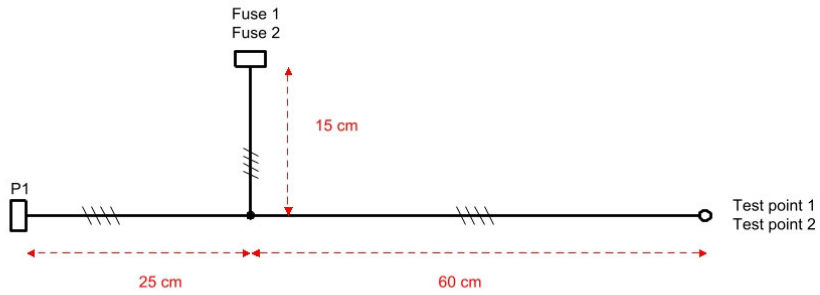


Figure 2: Test Cable Lengths

B1.2 Test Shunt Connector

The pinpuller (E300, E301) of the floatation bottles installed on helicopter shall be shortened for safety condition by a shunt connector in order to provide an electrical short circuit.

NOTE: Two safety connector are necessary to carry out the EMC tests. One for each of the two bottles.

In
Figure 3 is reported the electrical wiring for the shunt connector of the pinpuller.

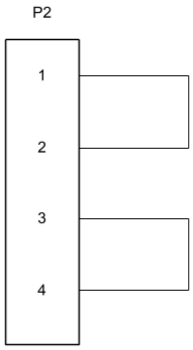


Figure 3: Shunt Connector Wiring

Here below is reported, for reference only, the list of possible components necessary to build one test cable.

Table F– Shunt Connector Components List

Reference point (see Figure 1)	Item	P/N	Quantity
Connector P1	FEMALE Connector	D38999/26KA35SN	1
-	WIRE (AWG 22)	A556-T22	As required

B1.3 Test Cables Installation Procedure

The installation of the test cables and test shunt connectors shall be carried out by qualified personnel.

1 Power OFF the helicopter disconnecting the batteries and the external plug
2 Connect the earth wire to helicopter
3 Unplug (open) the Floatation Circuit Breaker (Over Head Panel) – FLOAT EMER
4 Remove the rear floor in order to have access at the connectors of the Gas Cylinder Bottle #1 (E301) and #2 (E300)
5 Disconnect the connector E301P1 (Figure 4)
6 Disconnect the connector E300P1 (Figure 4)

WARNING

7 Connect the first **Test Shunt Connector** (safety shunt - **figure 5 and 8**) to the Gas Cylinder Bottle #1 (E301)
8 Connect the second **Test Shunt Connector** (safety shunt – **figure 5 and 8**) to the Gas Cylinder Bottle #2 (E300)
9 Connect the first **Test Cable** (fuse – **Figure 4 and Figure 6**) to E301P1 connector
10 Connect the second **Test Cable** (fuse – **Figure 4 and Figure 6**) to E300P1 connector
11 The Test point 1 & 2 shall be isolated and stowed (not necessary for this test)
12 Fix the test cables in the bay
13 Close all the panels

WARNING

14 Clear the area around the helicopter (people and/or object) for a radius of 10mt

15 Power ON the helicopter reconnecting the batteries and the external plug
16 The operator must sit inside the helicopter in pilot position
17 Plug (close) the floatation Circuit Breaker (Over Head Panel) – FLOAT EMER
18 Before the EMC Test check the fuses integrity
19 Helicopter ready to perform the EMC test
20 At the end of the EMC Test check the fuses integrity
21 Remove the electrical test cable and test shunt connectors implementation at the end of satisfactory EMC activity

As reference is reported the floatation wiring in operative condition without test cables and test shunt connectors implementation.

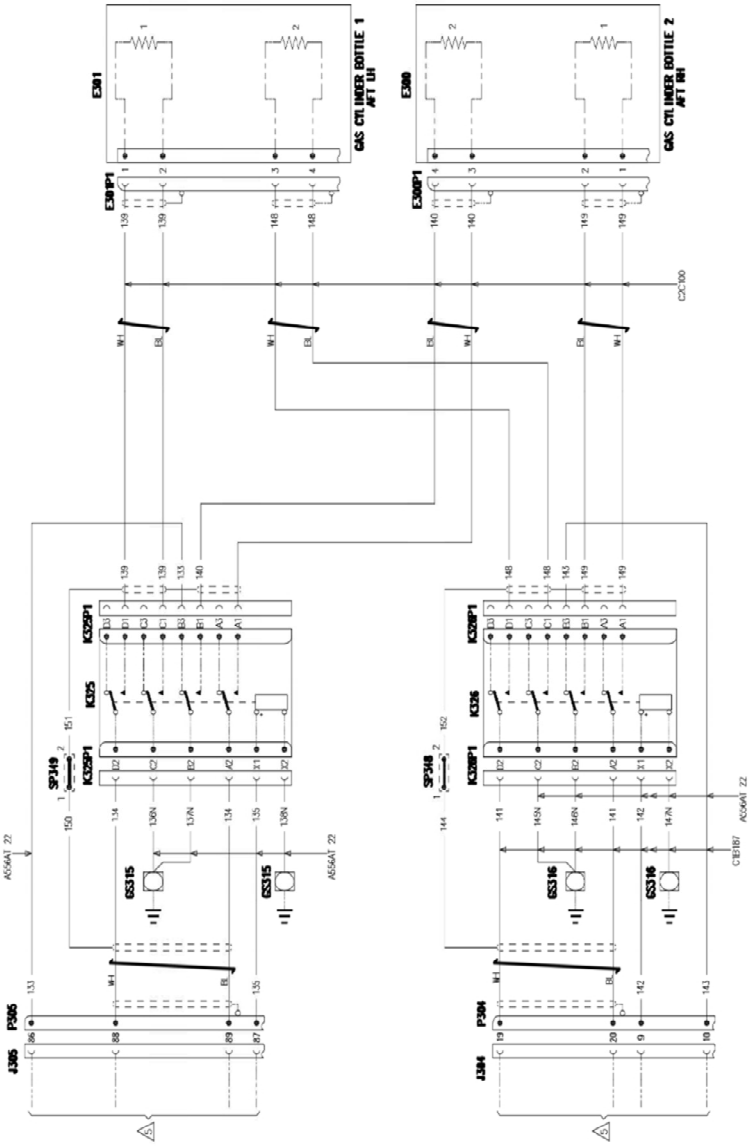
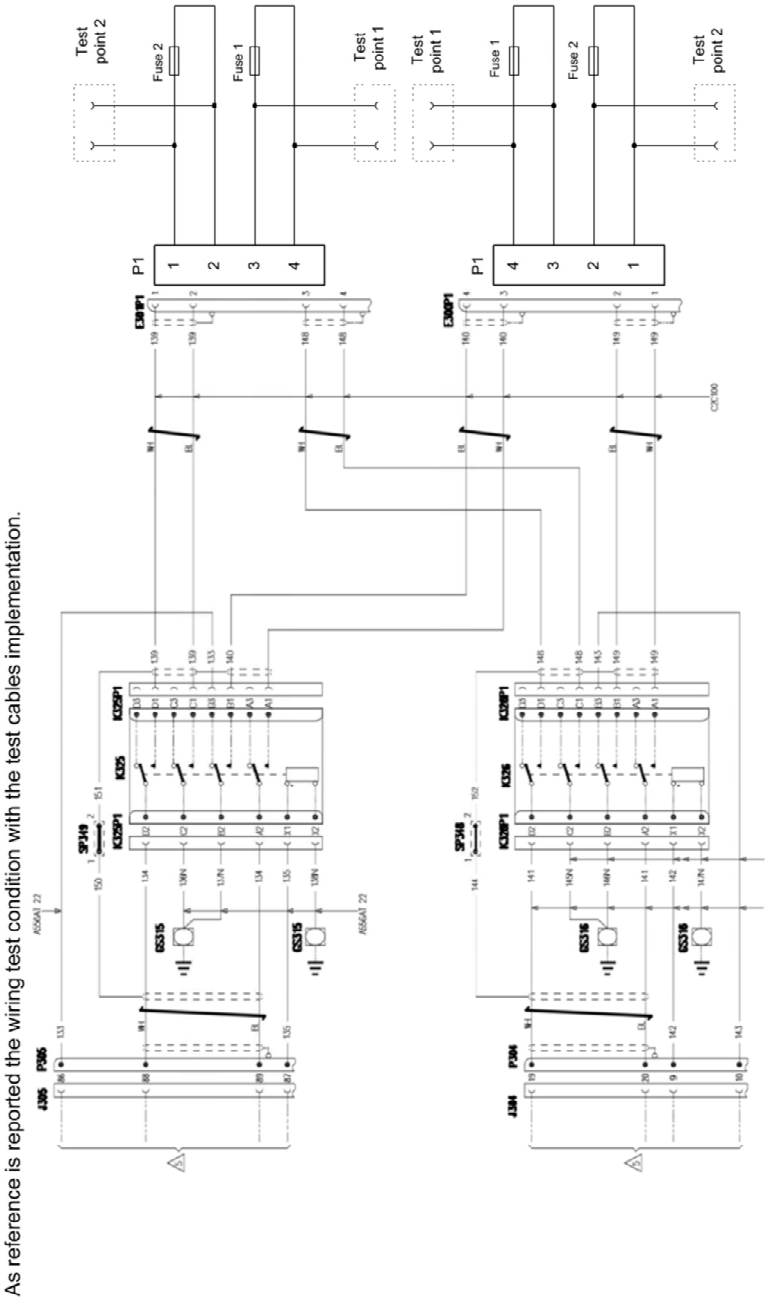


Figure 4: Flotation Wiring in Operative Condition



As reference is reported the wiring test condition with the test cables implementation.

Figure 5: Flotation Wiring in Test Condition with Test Cables Implementation

As reference is reported the wiring test condition with the test shunt connectors implementation.

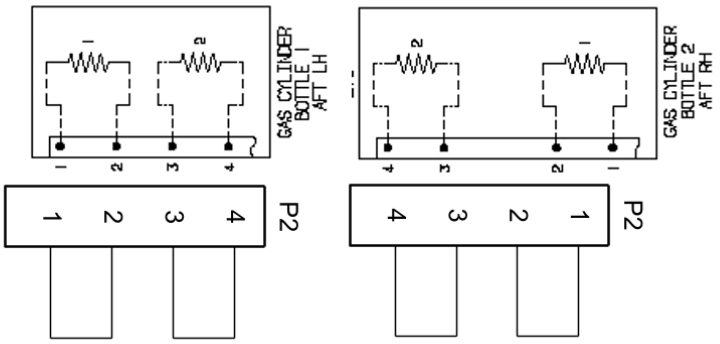


Figure 6: Test Shunt Connectors Implementation

B1.4 Test Cables Verify Procedure

To verify the integrity of the fuses proceed as reported:

Before the EMC TEST

1 The switch (ARMED/OFF) on the FLOATS Control Panel placed on Interseat Console **must** be in OFF position.
2 Press the TEST push-button on the same FLOATS Control Panel verifying that the four LH/RH BTL led will lights.
3 If the test fails, substitute the broken fuse with an equivalent one and repeat the step n°1.
4 When the continuity test pass (fuses integrity check).
5 Put the switch (ARMED/OFF) of the Floatation Control Panel in ARMED position.
6 Lift the flap EFS on pilot and co-pilot cyclic.
7 The helicopter is ready to start the EMC test.

At the end of the EMC TEST

1 Close the flap EFS Floatation on pilot and co-pilot cyclic.
2 Close the switch (ARMED/OFF) in OFF position.
3 Check the integrity of the fuse as reported in step n°1 to step n°2
4 If the continuity fails contact EMC department
5 If the continuity test pass, the EMC Test on the floatation EAD is passed.

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.