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AgustaWestland Products

SERVICE BULLETIN

OPTIONAL

N° 139-266

DATE: October 7, 2011

REV. : B - June 20, 2023

TITLE

ATA 25 - INSTALLATION OF KIT BAMBI BUCKET PROVISION

REVISION LOG

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

Revision A is issued to allow the installation of kit P/N 4G2590F00311.

Part II of Rev. A corresponds to the previous issue of this SB.

Revision B is issued to allow the installation of kit P/N 4G2590F00314 for Long Nose AW139 helicopters.

Parts I and II of Rev. B correspond to the previous issue of this SB.

Due to the large amount of modifications introduced in this new revision, revision bars are not shown.

1. PLANNING INFORMATION

A. EFFECTIVITY

Part I: AB/AW139 helicopters from S/N 31005 to S/N 31157 except S/N 31007 and from S/N 41001 to S/N 41023.

Part II: AW139 helicopters from S/N 31201 to S/N 31398 and from S/N 41201 to S/N 41293 except S/N 41237.

Part III: AW139 helicopters from S/N 31400 onwards and from S/N 41300 onwards.

B. COMPLIANCE

At Customer's option.

C. CONCURRENT REQUIREMENTS

N.A.

D. REASON

This Service Bulletin is issued in order to provide all necessary instructions on how to perform the installation of kit Bambi bucket provision P/N 4G2590F00311, P/N 4G2590F00312 or P/N 4G2590F00314.

LHD issued this SB for the following reason:

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

E. DESCRIPTION

The kit Bambi Bucket provision allows to perform the structural and electrical provision on the helicopter necessary for the installation of a Bambi Bucket system for the aerial firefighting operations.

The external equipment installation of Bambi Bucket system is not included in this provisional kit.

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 one hundred and twenty (120) MMH;

Part II: approximately eighty (80) MMH.

Part III: approximately eighty (80) MMH.

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

H. WEIGHT AND BALANCE

PART I

WEIGHT (Kg)	1.52	
	ARM (mm)	**MOMENT (Kgmm)**
LONGITUDINAL BALANCE	3400	5168
LATERAL BALANCE	587	892,24

PART II

WEIGHT (Kg)	0.74	
	ARM (mm)	**MOMENT (Kgmm)**
LONGITUDINAL BALANCE	3398	2514,52
LATERAL BALANCE	-309	-228,66

PART III

WEIGHT (Kg)	0,69	
	ARM (mm)	**MOMENT (Kgmm)**
LONGITUDINAL BALANCE	3690	2546,10
LATERAL BALANCE	-415	-286,35

I. REFERENCES

I.1 PUBLICATIONS

Following Data Modules refer to AMP:

DATA MODULE		DESCRIPTION	PART
DM01	39-A-00-20-00-00A-120A-A	Helicopter on ground for a safe maintenance.	I, II, III
DM02	39-A-24-91-04-00A-920A-K	Integrally lighted panel - Replacement.	I, II
DM03	39-A-06-41-00-00A-010A-A	Access doors and panels - General data.	III
DM04	39-A-20-10-01-00A-259A-A	Ground connections - Other procedures to protect surfaces	III
DM05	39-A-11-00-01-00A-720A-A	Decal – Install procedure.	III
DM06	39-A-20-10-08-00A-622A-A	Electrical contacts - Crimp	III

I.2 ACRONYMS & ABBREVIATIONS

AMP	Aircraft Maintenance Publication
CA	Cable Assembly
CB	Circuit Breaker
DM	Data Module
DOA	Design Organization Approval
EASA	European Aviation Safety Agency
LH	Left-Hand
LHD	Leonardo Helicopter Division
LS	Local Supply
MMH	Maintenance Man Hours
N.A.	Not Applicable
P/N	Part Number
RH	Right
S/N	Serial Number
SB	Service Bulletin
WD	Wiring Diagram

J. PUBLICATIONS AFFECTED

N.A.

K. SOFTWARE ACCOMPLISHMENT SUMMARY

N.A.

2. MATERIAL INFORMATION

A. REQUIRED MATERIALS

PARTS

PART I

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
1	**4G2590F00311**		**KIT BAMBI BUCKET PROVISION**	**REF**	**.**		**-**
2	3G6712A00737		Pilot cyclic stick assy (NVG)	1	..		139-266L1
3	3G6712A00837		Copilot cyclic stick assy (NVG)	1	..		139-266L1
4	3G9B01A18801		Fire bucket C/A (B1A188)	1	..		139-266L1
5	3G9B01B13901		Fire bucket C/A (B1B139)	1	..		139-266L1
6	3G9C01A11001		Fire bucket C/A (C1A110)	1	..		139-266L1
7	3G9C01B11201		Fire bucket C/A (C1B112)	1	..		139-266L1
8	A363A01		Ground Stud	1	..		139-266L1
9	A366A3E08C		Electrical support	1	..		139-266L1
10	A366A3E20C		Electrical support	1	..		139-266L1
11	A649A01		Relay	2	..		139-266L1
12	ED300GS55		Decal	1	..		139-266L1
13	ED300J137		Decal	1	..		139-266L1
14	ED300K94		Decal	1	..		139-266L1
15	ED300K95		Decal	1	..		139-266L1
16	M85049/95-16A-A		Flange	2	..		139-266L1
17	MS21042L3		Nut	2	..		139-266L1
18	MS21919WDG5	AS21919WDG05	Clamp	2	..		139-266L1
19	MS3115-16L		Dummy connector	1	..		139-266L1
20	MS3181-16C	MS3181-16CA	Cover	1	..		139-266L1
21	MS35206-215		Screw	4	..		139-266L1
22	MS35206-216		Screw	4	..		139-266L1
23	NAS1149D0332J		Washer	6	..		139-266L1
24	NAS43DD3-40N		Spacer	1	..		139-266L1
25	NAS1149DN416J		Washer	8	.		139-266L1
26	3G5315A40851		Support	1	.		139-266L1
27	A824A01A-A1		Bracket	1	.		139-266L1
28	MS35207-260		Screw	4	.		139-266L1
29	NAS1836-3-13		Insert	4	.		139-266L1
30	A556A-T16		Wire	1m	.		139-266L1
31	A556A-T20		Wire	1m	.		139-266L1
32	ED300CB211		Decal	1	.		139-266L1
33	ED300S203		Decal	1	.		139-266L1
34	MS27722-22		Switch	1	.		139-266L1
35	MS3320-7-1/2		Circuit Breaker	1	.		139-266L1
36	MS25036-153		Electrical contact	1	.		139-266L1
37	M39029/1-16-20		Electrical contact	2	.		139-266L1
38	M39029/56-352		Electrical contact	1	.		139-266L1
39	M39029/56-351		Electrical contact	1	.		139-266L1
40	MS25036-149		Electrical contact	1	.		139-266L1
41	3G2490LXXXXX		Integrally lit auxiliary C/B panel	1	.	(1)	-

PART II

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
42	**4G2590F00312**		**KIT BAMBY BUCKET PROVISION**	**REF**	.		-
43	**4G2590A02011**		**BAMBY BUCKET COMPLETE PROVISION**	**REF**	..		-
44	**3G5310A20211**		**BAMBI BUCKET STRUCT. PROVISION**	**REF**	...		-
45	3G5315A40851		Support	1	....		139-266L2
46	**4G2590A02112**		**BAMBY BUCKET ELECTRICAL PROV**	**REF**	...		-
47	3G9A01A31301		Fire bucket C/A (A1A313)	1	....		139-266L2
48	3G9A01B32301		Fire bucket C/A (A1B323)	1	....		139-266L2
49	3G9B01A37401		Fire bucket C/A (B1A374)	1	....		139-266L2
50	A363A01		Terminal	2	....		139-266L2
51	A366A3E08C		Electrical support	2	....		139-266L2
52	A366A3E22C		Electrical support	1	....		139-266L2
53	A366A3E22C75		Electrical support	2	....		139-266L2
54	A649A01		Relay	2	....		139-266L2
55	ED300GS267		Decal	1	....		139-266L2
56	ED300GS269		Decal	1	....		139-266L2
57	ED300J2047		Decal	2	....		139-266L2
58	ED300K94		Decal	1	....		139-266L2
59	ED300K95		Decal	1	....		139-266L2
60	M85049/95-16A-A		Flange	2	....		139-266L2
61	MS21042L3		Nut	5	....		139-266L2
62	MS21919WDG2	AS21919WDG02	Clamp	2	....		139-266L2
63	MS21919WDG3	AS21919WDG03	Clamp	3	....		139-266L2
64	MS3115-16L		Dummy connector	1	....		139-266L2
65	MS3181-16C	MS3181-16CA	Cover	1	....		139-266L2
66	MS35206-215		Screw	4	....		139-266L2
67	NAS1149D0332J		Washer	5	....		139-266L2
68	NAS43DD3-56N		Spacer	1	....		139-266L2
69	NAS43DD3-60N		Spacer	2	....		139-266L2
70	AS21919WDG04		Clamp	2	.		139-266L2
71	NAS1149D0432J		Washer	8	.		139-266L2
72	MS35206-216		Screw	4	.		139-266L2
73	A556A-T20		Wire	1m	.		139-266L2
74	A556A-T22		Wire	1m	.		139-266L2
75	ED300CB211		Decal	1	.		139-266L2
76	ED300S203		Decal	1	.		139-266L2
77	MS27722-22		Switch	1	.		139-266L2
78	MS3320-7-1/2		Circuit Breaker	1	.		139-266L2
79	MS25036-149		Pin	2	.		139-266L2
80	M39029/1-100		Pin	2	.		139-266L2
81	M39029/56-352		Pin	1	.		139-266L2
82	M39029/56-351		Pin	1	.		139-266L2
83	3G2490LXXXXX		Integrally lit auxiliary C/B panel	1	.	(1)	-

PART III

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
84	**4G2590F00314**		**KIT BAMBY BUCKET PROVISION**	**REF**	.		-
85	**4G2590A02012**		**BAMBY BUCKET**	**REF**	..		-

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
			COMPLETE PROVISION				
86	**3G5310A20212**		**BAMBI BUCKET STRUCT. PROVISION**	**REF**	**...**		**-**
87	3G5318A07651		Support	1	....		139-266L3
88	3G5318A07751		Bonding layer	1	....		139-266L3
89	NAS1720H4L1A		Rivet	3	....		139-266L3
90	A825A01A-A1		Socket support	1	....	(2)	139-266L4
91	MS35207-260		Screw	4	....	(2)	139-266L4
92	NAS1149D0332J		Washer	4	....	(2)	139-266L4
93	NAS1836-3-13		Insert	4	....	(2)	139-266L4
94	**4G2590A02112**		**BAMBY BUCKET ELECTRICAL PROV**	**REF**	**...**		**-**
95	3G9A01A31301	3G9A01A31301A10R	Fire bucket C/A (A1A313)	1	....		139-266L3
96	3G9A01B32301	3G9A01B32301A10R	Fire bucket C/A (A1B323)	1	....		139-266L3
97	3G9B01A37401	3G9B01A37401A10R	Fire bucket C/A (B1A374)	1	....		139-266L3
98	A363A01		Terminal	2	....		139-266L3
99	A366A3E22C		Stud	1	....		139-266L3
100	A366A3E22C75		Stud	2	....		139-266L3
101	A649A01		Relay	2	....		139-266L3
102	AW001CB03H		Clamp	1	....		139-266L3
103	AW001CB04H		Clamp	2	....		139-266L3
104	AW001CL001-N6		Electrical support	2	....		139-266L3
105	ED300GS267		Decal	1	....		139-266L3
106	ED300GS269		Decal	1	....		139-266L3
107	ED300J2047		Decal	2	....		139-266L3
108	ED300K94		Decal	1	....		139-266L3
109	ED300K95		Decal	1	....		139-266L3
110	M85049/95-16A-A		Connector	2	....		139-266L3
111	MS21043-3		Nut	3	....		139-266L3
112	MS3115-16L		Receptacle	1	....		139-266L3
113	MS3181-16C		Cover	1	....		139-266L3
114	MS35206-215		Screw	4	....		139-266L3
115	MS35206-216		Screw	4	....		139-266L3
116	NAS1149D0332J		Washer	3	....		139-266L3
117	NAS43DD3-56N		Spacer	1	....		139-266L3
118	NAS43DD3-60N		Spacer	2	....		139-266L3
119	3G2490LXXXXX		Integrally lit auxiliary C/B panel	1	.	(1)	-
120	MS3320-7-1/2		Circuit Breaker	1	.		139-266L3
121	ED300CB211		Decal	1	.		139-266L3
122	ED300S203		Decal	1	.		139-266L3
123	MS27722-22		Switch	1	.		139-266L3
124	A556A-T22		Wire	1m	.		139-266L3
125	A556A-T20		Wire	2.5m	.		139-266L3
126	MS25036-149		Pin	2	.		139-266L3
127	M39029/56-352		Pin	1	.		139-266L3
128	M39029/1-100		Pin	2	.		139-266L3
129	M39029/56-351		Pin	1	.		139-266L3

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

CONSUMABLES

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

#	SPEC./LHD CODE NUMBER	DESCRIPTION	Q.TY	NOTE	PART
130	MMM-A-132 Type I, Class 3 Code No. 900004603 199-05-002, Type II, Class 2	Adhesive EA934NA (C057)	AR	(3)	I, II, III
131	MMM-A-132, Type II, Class 2 Code No. 900000581 199-05-002 Type I, Class 2	Adhesive EA9309.3NA (C021)	AR	(3)	I, II, III
132	Commercial	Adhesive CB200-40 (C356)	AR	(3)	III

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

LOGISTIC MATRIX

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

LOGISTIC P/N	Q.TY (PER HELO)	NOTE	PART
139-266L1	1		I
139-266L2	1		II
139-266L3	1		III
139-266L4	1	(2)	III
3G2490LXXXXX	1	(1)	I, II, III

NOTE

(1) The P/N is not properly completed because it is depending on the helicopter configuration. Customers must contact Product Support Engineering (engineering.support.lhd@leonardocompany.com) to request the new auxiliary CB panel at least three months in advance from the scheduled application of this Service Bulletin.

(2) Item to be supplied only if support P/N 3G5310A01915 is NOT already installed as part of the structural provisions for one of the SX16 or Trakka search light kits.

(3) Item to be procured as local supply.

B. SPECIAL TOOLS

N.A.

C. INDUSTRY SUPPORT INFORMATION

Customization.

3. ACCOMPLISHMENT INSTRUCTIONS

GENERAL NOTES

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

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

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

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

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

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

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

h) All lengths are in mm.

PART I

1. In accordance with DM 39-A-00-20-00-00A-120A-A, prepare the helicopter on ground for a safe maintenance. Disconnect the battery, all electrical power sources and/or the external power supply.
2. With reference to Figures 2, gain access to the area affected by the installation and perform Bambi Bucket Structural Provision P/N 3G5310A20211 as described in the following procedure:
   2.1 With reference to Figure 2 Section C-C, perform the indicated cut-out on the lower panel P/N 3P5331A02231 through internal skin and honeycomb without removing external skin. Coordinate it with support P/N 3G5315A40851.

2.2 With reference to Figure 2 Section C-C and Detail A seal the cut-out with adhesive EA934NA.

2.3 With reference to Figure 2 Detail A, bond the support P/N 3G5315A40851 by means of adhesive EA934NA.

2.4 With reference to Figure 2 Detail B, drill n°8 holes Ø 3.25 through lower panel P/N 3P5331A02231 in indicated positions.

2.5 With reference to Figure 2 Detail B, drill Ø 28.0 through external skin of lower panel P/N 3P5331A02231 in accordance with support P/N 3G5315A40851.

3. Perform the Bambi Bucket Electrical Provision as described in the following procedure:

3.1 With reference to Figure 3, remove and discard the existing pilot cyclic stick assy P/N 3G6712A00733.

3.2 With reference to Figure 3, remove and discard the existing co-pilot cyclic stick assy P/N 3G6712A00833.

3.3 With reference to Figure 4 Section DA-DA, drill n°4 holes Ø11.48÷11.61 and install n°4 inserts P/N NAS1836-3-13 by means of adhesive EA934NA; coordinate inserts position with bracket holes.

3.4 With reference to Figure 4 Detail D2, install bracket P/N A824A01A-A1 by means of n°4 screws P/N MS35207-260 and n°4 washers P/N NAS1149D0332J.

3.5 With reference to Figure 4 Detail E2, install the electrical support P/N A366A3E08C in the indicated position by means of adhesive EA9309.3NA.

3.6 With reference to Figure 4 Detail E2, install the electrical support P/N A366A3E20C in the indicated position by means of adhesive EA9309.3NA.

NOTE

If necessary, the use of clamps of different size as alternative to indicated ones is allowed.

3.7 With reference to Figure 4 Detail E2, install a clamp P/N AS21919WDG05 in indicated position by means of a washer P/N NAS1149D0332J and a nut P/N MS21042L3.

3.8 With reference to Figure 4 Detail E2, install a clamp P/N AS21919WDG05 in indicated position by means of a spacer P/N NAS43DD3-40N, a washer P/N NAS1149D0332J and a nut P/N MS21042L3.

3.9 With reference to Figure 4 Detail D1, install n°2 relay P/N A649A01 on the previously installed bracket; apply decals P/N ED300K94 and P/N ED300K95 in an adjacent area.

3.10 With reference to Figure 4 Detail D1, install a ground stud P/N A363A01 in the indicated position; apply decals P/N ED300GS55 in an adjacent area.

3.11 With reference to Figure 4 Detail E1, install a flange P/N M85049/95-16A-A by means of n°4 screws P/N MS35206-216 and n°4 washers P/N NAS1149DN416J; apply decal P/N ED300J137 in an adjacent area.

3.12 With reference to Figure 4 Detail E1, install in indicated position a dummy connector P/N MS3115-16L and relevant cover P/N MS3181-16CA by means of a flange P/N M85049/95-16A-A, n°4 screws P/N MS35206-215 and n°4 washers NAS1149DN416J.

3.13 With reference to Figures 3, 4 and 5, route the following cable assemblies:

- 3G9A01B32301 Cable assy (B1A139)
- 3G9B01A37401 Cable assy (B1A188)
- 3G9A01A31301 Cable assy (C1A110)
- 3G9A01A31301 Cable assy (C1B112)

secure the cable by means of existing hardware and lacing cord.

3.14 With reference to Figure 6 Wiring Diagram, perform electrical connection of the cable B1B139 to sectioning connectors A58J1 and P16.

3.15 With reference to Figure 6 Wiring Diagram, perform electrical connection of the cable B1A188 to sectioning connectors A59J1, J7 and J16 and to circuit breaker panel connectors PL1P7 and PL1P3.

3.16 With reference to Figure 7 Wiring Diagram, perform electrical connection of the cable B1B139 to sectioning connectors J137 and P7 and to ground stud GS55.

3.17 With reference to Figure 8 Wiring Diagram, perform electrical connection of the cable C1B112 between MAU2 connector A2-1P2 and sectioning connectors J102 and P125.

3.18 With reference to Figure 8 Wiring Diagram, perform electrical connection of the cable C1A110 between the MAU1 connector A1-1P2 and sectioning connector J125.

3.19 With reference to Figure 8 Wiring Diagram, perform electrical connection of the cable B1B139 to sectioning connector P102.

3.20 With reference to Figure 3, install the new pilot cyclic stick assy P/N 3G6712A00737.

3.21 With reference to Figure 3, install the new co-pilot cyclic stick assy P/N 3G6712A00837.

4. Modify the Auxiliary C/B panel on the overhead panel, as described in the following procedure:

NOTE

Customer must contact LHD PSE (engineering.support.lhd@leonardocompany.com) at least 3 months in advance of embodiment date of this Service Bulletin in order to collect the exact W/D applicable to helicopter configuration.

4.1 With reference to AMP DM 39-A-24-91-04-00A-920A-K remove from the overhead Auxiliary C/B panel the existing Integrally-lit panel; replace it with the new one.

4.2 Install where indicated on the new Integrally-lighted panel one Circuit Breaker P/N MS3320-7-1/2 for Bambi Bucket system.

4.3 Install decal ED300CB211 adjacent to the Circuit Breaker previously installed.

4.4 Install where indicated on the new Integrally-lighted panel one switch P/N MS27722-22 for Bambi Bucket system.

4.5 Install decal ED300S203 adjacent to the switch previously installed.

4.6 With reference to Figure 6 Wiring Diagram, perform the electrical connection between pin 2 of CB211 and pin Z of connector PL1J7 by means of A556A-T16 wire. Use electrical contact P/N MS25036-153 for pin 2 of CB211 and electrical contact P/N M39029/56-352 for pin Z of PL1J7. CB211 has to be connected to 28V DC MAIN BUS 2 W22C.

4.7 With reference to Figure 6 Wiring Diagram, perform the electrical connection between pin 2 of CB211 and pin 2 of switch S203 by means of A556A-T20 wire. Use electrical contact P/N MS25036-149 for pin 2 of CB211 and electrical contact P/N M39029/1-16-20 for pin 2 of S203.

4.8 With reference to Figure 6 Wiring Diagram, perform the electrical connection between pin 3 of switch S203 and pin v of PL1J3 by means of A556A-T20 wire. Use electrical contact P/N M39029/1-16-20 for pin 3 of s203 and electrical contact P/N M39029/56-351 for pin v of PL1J3.

5. Perform a pin-to-pin continuity check of all the electrical connections made.
6. In accordance with weight and balance changes, update the Chart A (see Rotorcraft Flight Manual, Part II, section 6)
7. Return the helicopter to flight configuration and record for compliance with Part I of this Service Bulletin on the helicopter logbook.
8. 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 DM 39-A-00-20-00-00A-120A-A, prepare the helicopter on ground for a safe maintenance. Disconnect the battery, all electrical power sources and/or the external power supply.
2. With reference to Figures 2, gain access to the area affected by the installation and perform Bambi Bucket Structural Provision P/N 3G5310A20211 as described in the following procedure:
   - 2.1 With reference to Figure 2 Section C-C, perform the indicated cut-out on the lower panel P/N 3P5331A02231 through internal skin and honeycomb without removing external skin. Coordinate it with support P/N 3G5315A40851.
   - 2.2 With reference to Figure 2 Section C-C and Detail A seal the cut-out with adhesive EA934NA.
   - 2.3 With reference to Figure 2 Detail A, bond the support P/N 3G5315A40851 by means of adhesive EA934NA.
   - 2.4 With reference to Figure 2 Detail B, drill n°8 holes Ø 3.25 through lower panel P/N 3P5331A02231 in indicated positions.
   - 2.5 With reference to Figure 2 Detail B, drill Ø 28.0 through external skin of lower panel P/N 3P5331A02231 in accordance with support P/N 3G5315A40851.
3. Perform the Bambi Bucket Electrical Provision P/N 4G2590A02111 as described in the following procedure:
   - 3.1 With reference to Figure 9, install an electrical support P/N A366A3E22C in the indicated position by means of adhesive EA9309.3NA.
   - 3.2 With reference to Figure 9, install n°2 electrical supports P/N A366A3E08C in the indicated positions by means of adhesive EA9309.3NA.
   - 3.3 With reference to Figure 9, install n°2 electrical supports P/N A366A3E22C75 in the indicated positions by means of adhesive EA9309.3NA.
   - 3.4 With reference to Figure 9, install a clamp P/N AS21919WDG03 by means of a spacer P/N NAS43DD3-56N, a washer P/N NAS1149D0332J and nut P/N MS21042L3.
   - 3.5 With reference to Figure 9, install n°2 clamps P/N AS21919WDG03 by means of n°2 washers P/N NAS1149D0332J and n°2 nuts P/N MS21042L3.

NOTE

If necessary, the use of clamps of different size as alternative to indicated ones is allowed.

   - 3.6 With reference to Figure 9, install n°2 clamps P/N AS21919WDG02 by means of n°2 spacers P/N NAS43DD3-60N, n°2 washers P/N NAS1149D0332J and n°2

nuts P/N MS21042L3.

3.7 With reference to Figure 9, install on existing bracket n°2 relay P/N A649A01; apply decals P/N ED300K94 and P/N ED300K95 in an adjacent area.

3.8 With reference to Figure 9, install n°2 ground stud P/N A363A01 in the indicated positions; apply decals P/N ED300GS267 and P/N ED300GS269 in an adjacent area.

3.9 With reference to Figure 9, install a flange P/N M85049/95-16A-A by means of n°4 screws P/N MS35206-216, n°4 washers P/N NAS1149D0432J; apply decal P/N ED300J2047 in an adjacent area.

3.10 With reference to Figure 9, install in indicated position a dummy connector P/N MS3115-16L by means of n°4 screws P/N MS35206-215, n°4 washers NAS1149D0432J; install a cover P/N MS3181-16CA.

3.11 With reference to Figure 9, apply decal P/N ED300J2047 in an adjacent area to connector J2047.

3.12 With reference to Figures 9 and 10, route the following cable assemblies:

- 3G9A01A31301 Cable assy (A1A313)
- 3G9A01B32301 Cable assy (A1B323)
- 3G9B01A37401 Cable assy (B1A374)

3.13 With reference to Figure 10 and Figures 11 and 12 Wiring Diagram, perform electrical connection of the cable A1B323 between MAU2 connector A2-1P2 and sectioning connector P101, following indicated route. Secure the cable by means of existing hardware.

3.14 With reference to Figures 11 and 12 Wiring Diagram, perform electrical connection of the cable A1A313 between the MAU1 connector A1-1P2 and sectioning connectors J101 and P117, following indicated route; secure the cable by means of existing hardware and lacing cord.

3.15 With reference to Figures 11 and 12 Wiring Diagram, perform electrical connection of the cable A1B323 between sectioning connectors P109, P111 and pilot cyclic connector A58J1, following indicated route; secure the cable by means of existing hardware.

3.16 With reference to Figures 11 and 12 Wiring Diagram, perform electrical connection of the cable A1A313 between sectioning connectors J109, P117 and co-pilot cyclic connector A59J1, following indicated route; secure the cable by means of existing hardware.

3.17 With reference to Figures 11 and 12 Wiring Diagram, perform electrical connection of the cable A1A313 between sectioning connectors J111, P117 and co-pilot cyclic

connector A59J1, following indicated route; secure the cable by means of existing hardware.

3.18 With reference to Figures 11 and 12 Wiring Diagram, perform electrical connection of the cable B1A374 between sectioning connector J117, circuit breaker panel connector PL1P9 and relay connectors K94P1 and K95P1 following indicated route; secure the cable by means of existing hardware.

3.19 With reference to Figures 11 and 12 Wiring Diagram, perform electrical connection of the cable B1A374 between relay connectors K94P1, K95P1 and ground stud GS267. Secure the cable by means of existing hardware.

3.20 With reference to Figures 11 and 12 Wiring Diagram, perform electrical connection of the cable B1A374 between relay connector K95P1, connector J2047 and ground stud GS269. Secure the cable by means of existing hardware.

3.21 With reference to Figures 11 and 12 Wiring Diagram, perform electrical connection of the cable B1A374 between relay connector K94P1 and circuit breaker panel connector PL1P7 following indicated route; secure the cable by means of existing hardware.

4. Modify the Auxiliary C/B panel on the overhead panel, as described in the following procedure:

NOTE

Customer must contact LHD PSE (engineering.support.lhd@leonardocompany.com) at least 3 months in advance of embodiment date of this Service Bulletin in order to collect the exact W/D applicable to helicopter configuration.

4.1 With reference to AMP DM 39-A-24-91-04-00A-920A-K remove from the overhead Auxiliary C/B panel the existing Integrally-lit panel; replace it with the new one.

4.2 Install where indicated on the new Integrally-lighted panel one Circuit Breaker P/N MS3320-7-1/2 for Bambi Bucket system.

4.3 Install decal ED300CB211 adjacent to the Circuit Breaker previously installed.

4.4 Install where indicated on the new Integrally-lighted panel one switch P/N MS27722-22 for Bambi Bucket system.

4.5 Install decal ED300S203 adjacent to the switch previously installed.

4.6 Perform electrical connection between CB211 pin 2 and connector of the auxiliary circuit breaker panel PL1J7 pin H using A556A-T20 wire. Use pin P/N MS25036-149 for pin 2 of CB211 and pin P/N M39029/56-352 for pin H of connector PL1J7. CB211 has to be connected to 28V DC MAIN BUS 2 W22C.

4.7 Perform electrical connection between CB211 pin 2 and switch S203 pin 2 using A556A-T22 wire. Use pin P/N MS25036-149 for pin 2 of CB211 and pin P/N M39029/1-100 for pin 2 of switch S203.

4.8 Perform electrical connection between switch S203 pin 3 and connector of the auxiliary circuit breaker panel PL1J9 pin w using A556A-T22 wire. Use pin P/N M39029/1-100 for pin 3 of switch S203 and pin P/N M39029/56-351 for pin w of connector PL1J9.

5. Perform a pin-to-pin continuity check of all the electrical connections made.
6. In accordance with weight and balance changes, update the Chart A (see Rotorcraft Flight Manual, Part II, section 6).
7. Return the helicopter to flight configuration and record for compliance with Part II of this Service Bulletin on the helicopter logbook.
8. 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 III

1. In accordance with DM 39-A-00-20-00-00A-120A-A, prepare the helicopter on ground for a safe maintenance. Disconnect the battery, all electrical power sources and/or the external power supply.
2. In accordance with DM 39-A-06-41-00-00A-010A-A and with reference to Figure 13, gain access to the area affected by the installation and perform Bambi Bucket Structural Provision P/N 3G5310A20212 as described in the following procedure:

NOTE

Perform following steps 2.1, 2.2 and 2.3 only if support P/N 3G5310A01915 is NOT already installed in the same position as that of P/N A825A01A-A1 in Figure 13 top view.

2.1 With reference to Figure 13 Section A-A, temporarily locate the support P/N A825A01A-A1 on the rear lower bonded panel P/N 3G5331A40831, countermark and drill n°4 holes Ø 11.48-11.61 through rear lower bonded panel.

2.2 With reference to Figure 13 Section A-A, install n°4 inserts P/N NAS1836-3-13 by means of adhesive EA934NA (C057).

2.3 With reference to Figure 13 Section A-A, install the support P/N A825A01A-A1 on the rear lower bonded panel by means of n°4 screws P/N MS35207-260 and n°4 washers P/N NAS1149D0332J.

2.4 With reference to Figure 13 Section C-C and Detail B, temporarily locate the support P/N 3G5318A07651 on the rear lower bonded panel, countermark and drill n°1 hole 28.06 ÷ 28.32 and n°8 holes Ø 3.12 ÷ 3.38 thru external skin in indicated positions.

2.5 With reference to Figure 13 Section C-C, bond the support P/N 3G5318A07651 by means of adhesive EA934NA (C057) and adhesive EA9309.3NA (C021) as indicated.

2.6 In accordance with AMP DM 39-A-20-10-01-00A-259A-A and Figure 13 Detail B, prepare indicated surface for good electrical bonding.

2.7 With reference to Figure 13 Detail B, install the bonding layer P/N 3G5318A07751 on the support P/N 3G5318A07651 and on the rear lower bonded panel by means of adhesive EA9309.3NA (C021) and n°3 rivets P/N NAS1720H4L1A.

3. Perform the Bambi Bucket Electrical Provision P/N 4G2590A02112 as described in the following procedure:

3.1 With reference to Figure 16 View looking floor area LH side, install an electrical support P/N A366A3E22C in the indicated position by means of adhesive

CB200-40 (C356).

3.2 With reference to Figure 16 View looking floor area LH side, install n°2 electrical supports P/N AW001CL001-N6 in the indicated positions by means of adhesive CB200-40 (C356).

3.3 With reference to Figure 16 View looking floor area LH side, install n°2 electrical supports P/N A366A3E22C75 in the indicated positions by means of adhesive CB200-40 (C356).

3.4 With reference to Figure 16 View looking floor area LH side, install a clamp P/N AW001CB03H by means of a spacer P/N NAS43DD3-56N, a washer P/N NAS1149D0332J and nut P/N MS21043-3.

NOTE

If necessary, the use of clamps of different size as alternative to indicated ones is allowed.

3.5 With reference to Figure 16 View looking floor area LH side, install n°2 clamps P/N AW001CB04H by means of n°2 spacers P/N NAS43DD3-60N, n°2 washers P/N NAS1149D0332J and n°2 nuts P/N MS21043-3.

3.6 With reference to Figure 16 View looking floor area LH side, install on support P/N A825A01A-A1 (or support P/N 3G5310A01915 if this was already installed) n°2 relays P/N A649A01.

3.7 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 16 View looking floor area LH side, apply decals P/N ED300K94 and P/N ED300K95 near the previously installed n°2 relays P/N A649A01.

3.8 With reference to Figure 16 View looking floor area LH side, install n°2 ground studs P/N A363A01 in the indicated positions.

3.9 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 16 View looking floor area LH side, apply decals P/N ED300GS267 and P/N ED300GS269 near the ground studs P/N A363A01.

3.10 With reference to Figure 16 View looking up on external skin, install in indicated position the flange P/N M85049/95-16A-A and the dummy connector P/N MS3115-16L by means of n°4 screws P/N MS35206-215.

3.11 With reference to Figure 16 View looking up on external skin, install the cover P/N MS3181-16C on the dummy connector P/N MS3115-16L.

NOTE

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

NOTE

Install the tubing braided P/N A582A where protection against chafing and prevention of contact with structure may occur.

3.12 With reference to Figures 15 and 16, route the following cable assemblies:

- 3G9A01A31301 Cable assy (A1A313)
- 3G9A01B32301 Cable assy (A1B323)
- 3G9B01A37401 Cable assy (B1A374)

3.13 With reference to Figures 15 and 16, secure the cable assemblies lay down at the previous step by means of existing hardware and lacing cords.

3.14 With reference to Figure 16 View looking floor area LH side, install the connector J2047 and the flange P/N M85049/95-16A-A on the bonding layer P/N 3G5318A07751 by means of n°4 screws P/N MS35206-216.

3.15 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 16 View looking floor area LH side and View looking up on external skin, apply n°2 decals P/N ED300J2047 near the connector J2047.

3.16 In accordance with AMP DM 39-A-20-10-08-00A-622A-A and reference to Figure 15 and Figure 17 Wiring Diagram, perform electrical connection of the cable A1B323 between MAU2 connector A2-1P2 and sectioning connector P101.

3.17 In accordance with AMP DM 39-A-20-10-08-00A-622A-A and reference to Figures 15 and 17 Wiring Diagram, perform electrical connection of the cable A1A313 between the MAU1 connector A1-1P2 and sectioning connectors J101 and P117.

3.18 In accordance with AMP DM 39-A-20-10-08-00A-622A-A and reference to Figure 15 and Figure 17 Wiring Diagram, perform electrical connection of the cable A1B323 between sectioning connectors P109, P111 and pilot cyclic connector A58J1.

3.19 In accordance with AMP DM 39-A-20-10-08-00A-622A-A and reference to Figure 15 and Figure 17 Wiring Diagram, perform electrical connection of the cable A1A313 between sectioning connectors J111, J109, P117 and co-pilot cyclic connector A59J1.

3.20 In accordance with AMP DM 39-A-20-10-08-00A-622A-A and with reference to Figures 15 and 16, and Figure 17 and 18 Wiring Diagram, perform electrical

connection of the cable B1A374 between sectioning connector J117, circuit breaker panel connector PL1P9 and relay connectors K94P1 and K95P1.

3.21 In accordance with AMP DM 39-A-20-10-08-00A-622A-A and with reference to Figure 16 and Figure 18 Wiring Diagram, perform electrical connection of the cable B1A374 between relay connectors K94P1, K95P1 and ground stud GS267.

3.22 In accordance with AMP DM 39-A-20-10-08-00A-622A-A and with reference to Figure 16 and Figure 18 Wiring Diagram, perform electrical connection of the cable B1A374 between relay connector K95P1, connector J2047 and ground stud GS269.

3.23 In accordance with AMP DM 39-A-20-10-08-00A-622A-A and with reference to Figures 15 and 16, and Figure 18 Wiring Diagram, perform electrical connection of the cable B1A374 between relay connector K94P1 and circuit breaker panel connector PL1P7.

4. Modify the Auxiliary C/B panel on the overhead panel, as described in the following procedure:

NOTE

Customer must contact LHD PSE (engineering.support.lhd@leonardocompany.com) at least 3 months in advance of embodiment date of this Service Bulletin in order to collect the exact W/D applicable to helicopter configuration.

4.1 With reference to AMP DM 39-A-24-91-04-00A-920A-K remove from the overhead Auxiliary C/B panel the existing Integrally-lit panel; replace it with the new one.

4.2 Install where indicated on the new Integrally-lighted panel one Circuit Breaker P/N MS3320-7-1/2 for Bambi Bucket system.

4.3 Install decal ED300CB211 adjacent to the Circuit Breaker previously.

4.4 Install where indicated on the new Integrally-lighted panel one switch P/N MS27722-22 for Bambi Bucket system.

4.5 Install decal ED300S203 adjacent to the switch previously installed.

4.6 Perform electrical connection between CB211 pin 2 and connector of the auxiliary circuit breaker panel PL1J7 pin H using A556A-T20 wire. Use pin P/N MS25036-149 for pin 2 of CB211 and pin P/N M39029/56-352 for pin H of connector PL1J7. CB211 has to be connected to 28V DC MAIN BUS 2 W22C.

4.7 Perform electrical connection between CB211 pin 2 and switch S203 pin 2 using A556A-T22 wire. Use pin P/N MS25036-149 for pin 2 of CB211 and pin P/N M39029/1-100 for pin 2 of switch S203.

4.8 Perform electrical connection between switch S203 pin 3 and connector of the auxiliary circuit breaker panel PL1J9 pin w using A556A-T22 wire. Use pin P/N M39029/1-100 for pin 3 of switch S203 and pin P/N M39029/56-351 for pin w of connector PL1J9.

5. Perform a pin-to-pin continuity check of all the electrical connections made.
6. In accordance with AMP DM 39-A-06-41-00-00A-010A-A, re-install all external panels, internal panels and internal liners previously removed.
7. In accordance with weight and balance changes, update the Chart A (see Rotorcraft Flight Manual, Part II, section 6).
8. Return the helicopter to flight configuration and record for compliance with Part III of this Service Bulletin on the helicopter logbook.
9. 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:

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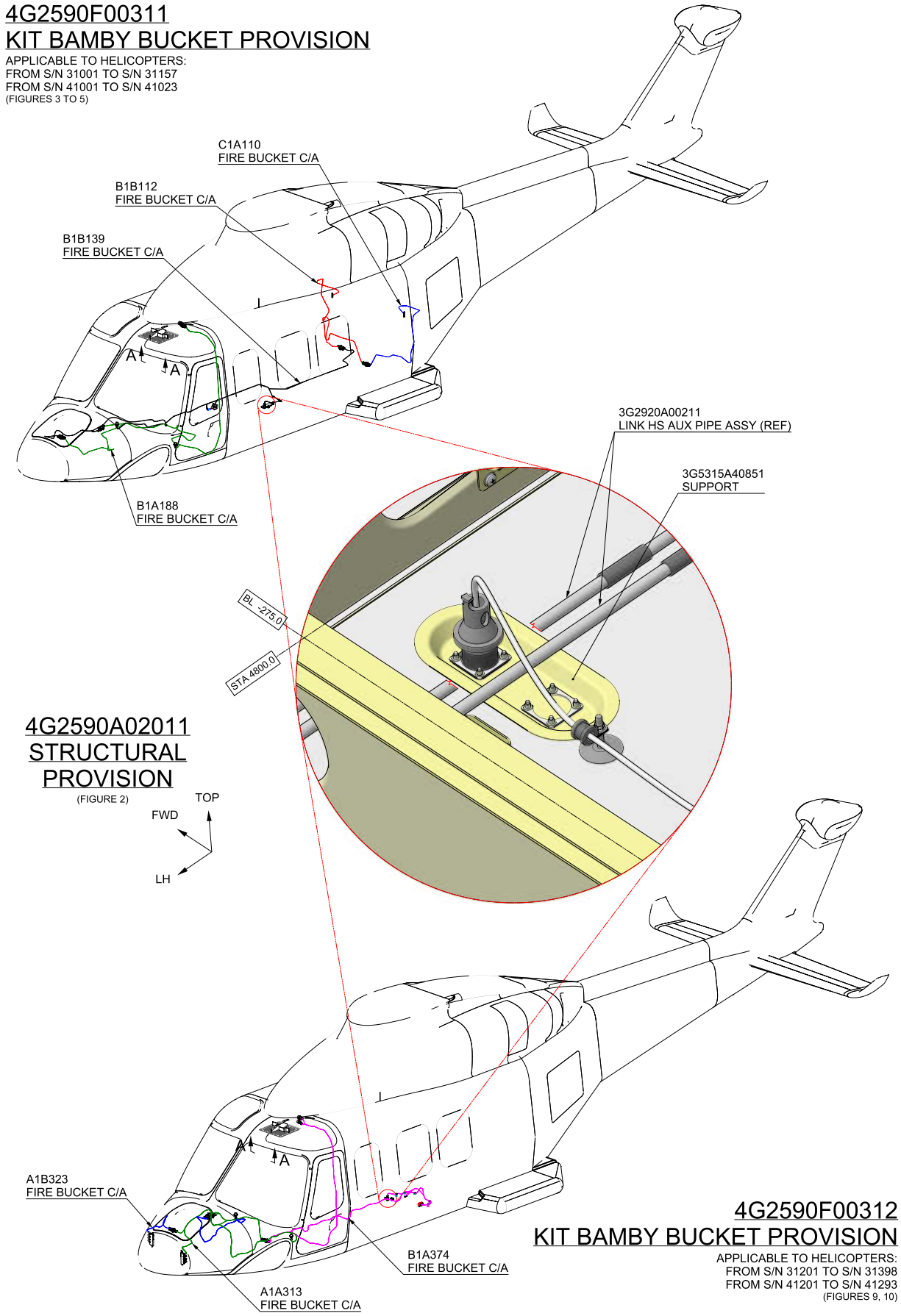
   and (for North, Central and South America) also to:

   AWPC.Engineering.Support@leonardocompany.us


4G2590F00311
KIT BAMBY BUCKET PROVISION
APPLICABLE TO HELICOPTERS:
FROM S/N 31001 TO S/N 31157
FROM S/N 41001 TO S/N 41023
(FIGURES 3 TO 5)
C1A110
FIRE BUCKET C/A
B1B112
FIRE BUCKET C/A
B1B139
FIRE BUCKET C/A
A
A
B1A188
FIRE BUCKET C/A
3G2920A00211
LINK HS AUX PIPE ASSY (REF)
3G5315A40851
SUPPORT
BL -275.0
STA 4800.0
4G2590A02011
STRUCTURAL
PROVISION
(FIGURE 2)
TOP
FWD
LH
A1B323
FIRE BUCKET C/A
A
A
B1A374
FIRE BUCKET C/A
A1A313
FIRE BUCKET C/A
4G2590F00312
KIT BAMBY BUCKET PROVISION
APPLICABLE TO HELICOPTERS:
FROM S/N 31201 TO S/N 31398
FROM S/N 41201 TO S/N 41293
(FIGURES 9, 10)

10.

Figure 1

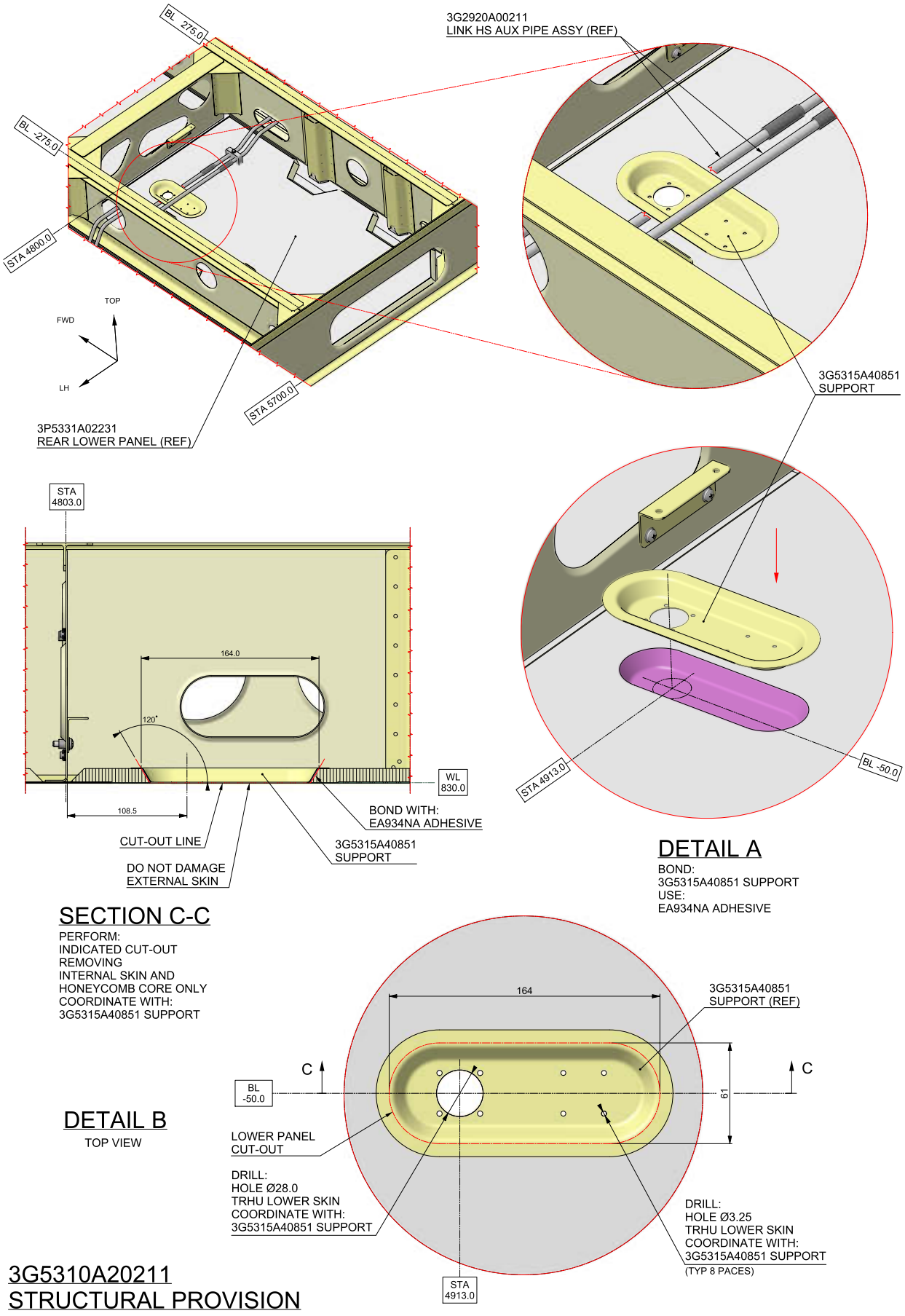

BL -275.0
BL -275.0
STA 4600.0
TOP
FWD
LH
STA 5700.0
3P5331A02231
REAR LOWER PANEL (REF)
3G2920A00211
LINK HS AUX PIPE ASSY (REF)
3G5315A40851
SUPPORT
STA 4913.0
BL -50.0
STA
4803.0
164.0
120°
108.5
WL
830.0
BOND WITH:
EA934NA ADHESIVE
CUT-OUT LINE
3G5315A40851
SUPPORT
DO NOT DAMAGE
EXTERNAL SKIN
DETAIL A
BOND:
3G5315A40851 SUPPORT
USE:
EA934NA ADHESIVE
SECTION C-C
PERFORM:
INDICATED CUT-OUT
REMOVING
INTERNAL SKIN AND
HONEYCOMB CORE ONLY
COORDINATE WITH:
3G5315A40851 SUPPORT
164
3G5315A40851
SUPPORT (REF)
C
C
BL
-50.0
61
LOWER PANEL
CUT-OUT
DRILL:
HOLE Ø28.0
TRHU LOWER SKIN
COORDINATE WITH:
3G5315A40851 SUPPORT
DRILL:
HOLE Ø3.25
TRHU LOWER SKIN
COORDINATE WITH:
3G5315A40851 SUPPORT
(TYP 8 PACES)
STA
4913.0
DETAIL B
TOP VIEW
3G5310A20211
STRUCTURAL PROVISION

Figure 2

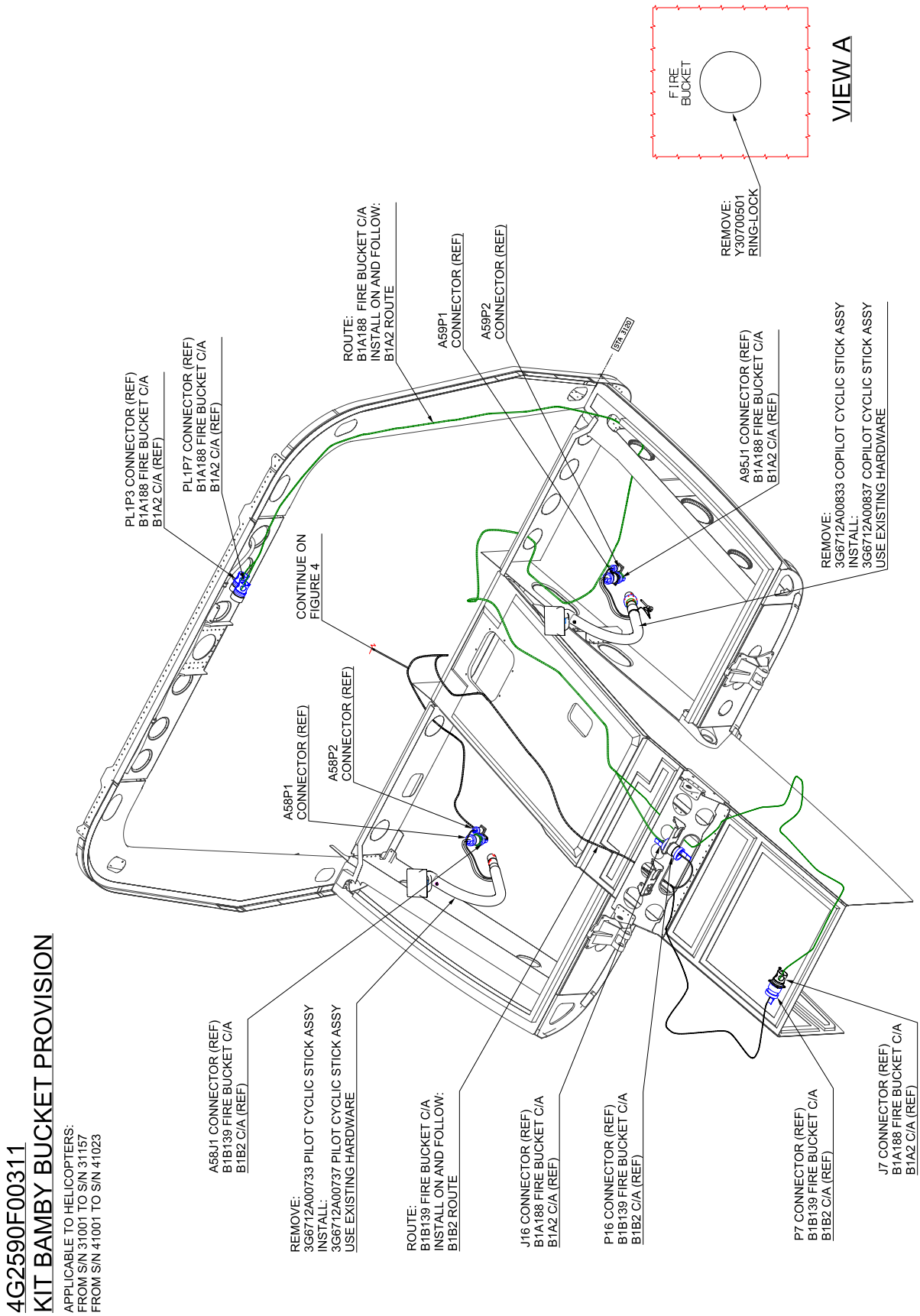
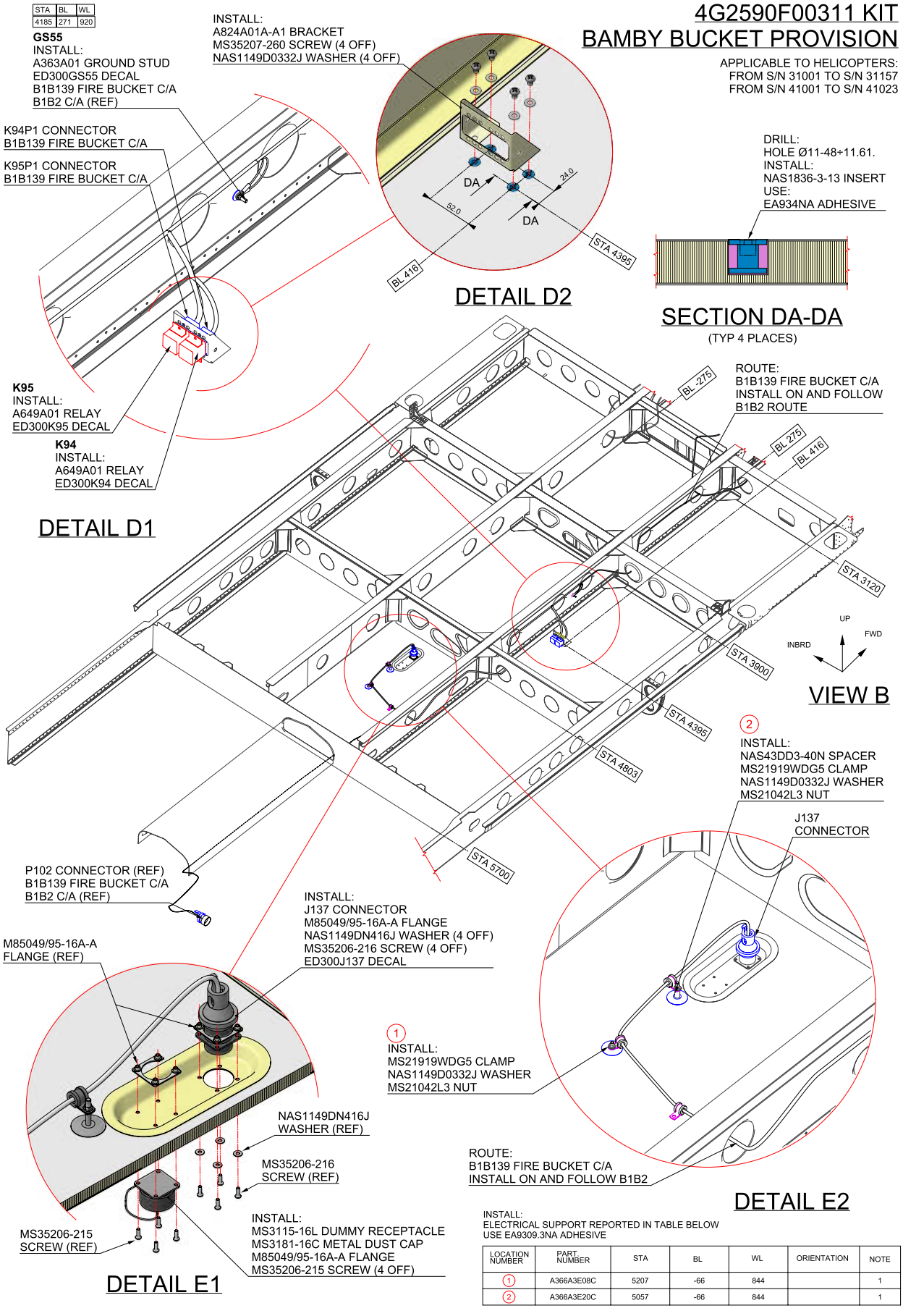

4G2590F00311
KIT BAMBY BUCKET PROVISION
APPLICABLE TO HELICOPTERS:
FROM S/N 31001 TO S/N 31157
FROM S/N 41001 TO S/N 41023
PL1P3 CONNECTOR (REF)
B1A188 FIRE BUCKET C/A
B1A2 C/A (REF)
PL1P7 CONNECTOR (REF)
B1A188 FIRE BUCKET C/A
B1A2 C/A (REF)
ROUTE:
B1A188 FIRE BUCKET C/A
INSTALL ON AND FOLLOW:
B1A2 ROUTE
A59P1
CONNECTOR (REF)
A59P2
CONNECTOR (REF)
STA 3120
REMOVE:
Y30700501
RING-LOCK
FIRE
BUCKET
VIEW A
A95J1 CONNECTOR (REF)
B1A188 FIRE BUCKET C/A
B1A2 C/A (REF)
REMOVE:
3G6712A00833 COPILOT CYCLIC STICK ASSY
INSTALL:
3G6712A00837 COPILOT CYCLIC STICK ASSY
USE EXISTING HARDWARE
CONTINUE ON
FIGURE 4
A58P1
CONNECTOR (REF)
A58P2
CONNECTOR (REF)
A58J1 CONNECTOR (REF)
B1B139 FIRE BUCKET C/A
B1B2 C/A (REF)
REMOVE:
3G6712A00733 PILOT CYCLIC STICK ASSY
INSTALL:
3G6712A00737 PILOT CYCLIC STICK ASSY
USE EXISTING HARDWARE
ROUTE:
B1B139 FIRE BUCKET C/A
INSTALL ON AND FOLLOW:
B1B2 ROUTE
J16 CONNECTOR (REF)
B1A188 FIRE BUCKET C/A
B1A2 C/A (REF)
P16 CONNECTOR (REF)
B1B139 FIRE BUCKET C/A
B1B2 C/A (REF)
P7 CONNECTOR (REF)
B1B139 FIRE BUCKET C/A
B1B2 C/A (REF)
J7 CONNECTOR (REF)
B1A188 FIRE BUCKET C/A
B1A2 C/A (REF)

Figure 3

4G2590F00311 KIT
BAMBY BUCKET PROVISION

APPLICABLE TO HELICOPTERS:
FROM S/N 31001 TO S/N 31157
FROM S/N 41001 TO S/N 41023



INSTALL:
ELECTRICAL SUPPORT REPORTED IN TABLE BELOW
USE EA9309.3NA ADHESIVE

LOCATION NUMBER	PART NUMBER	STA	BL	WL	ORIENTATION	NOTE
1	A366A3E08C	5207	-66	844		1
2	A366A3E20C	5057	-66	844		1

Figure 4

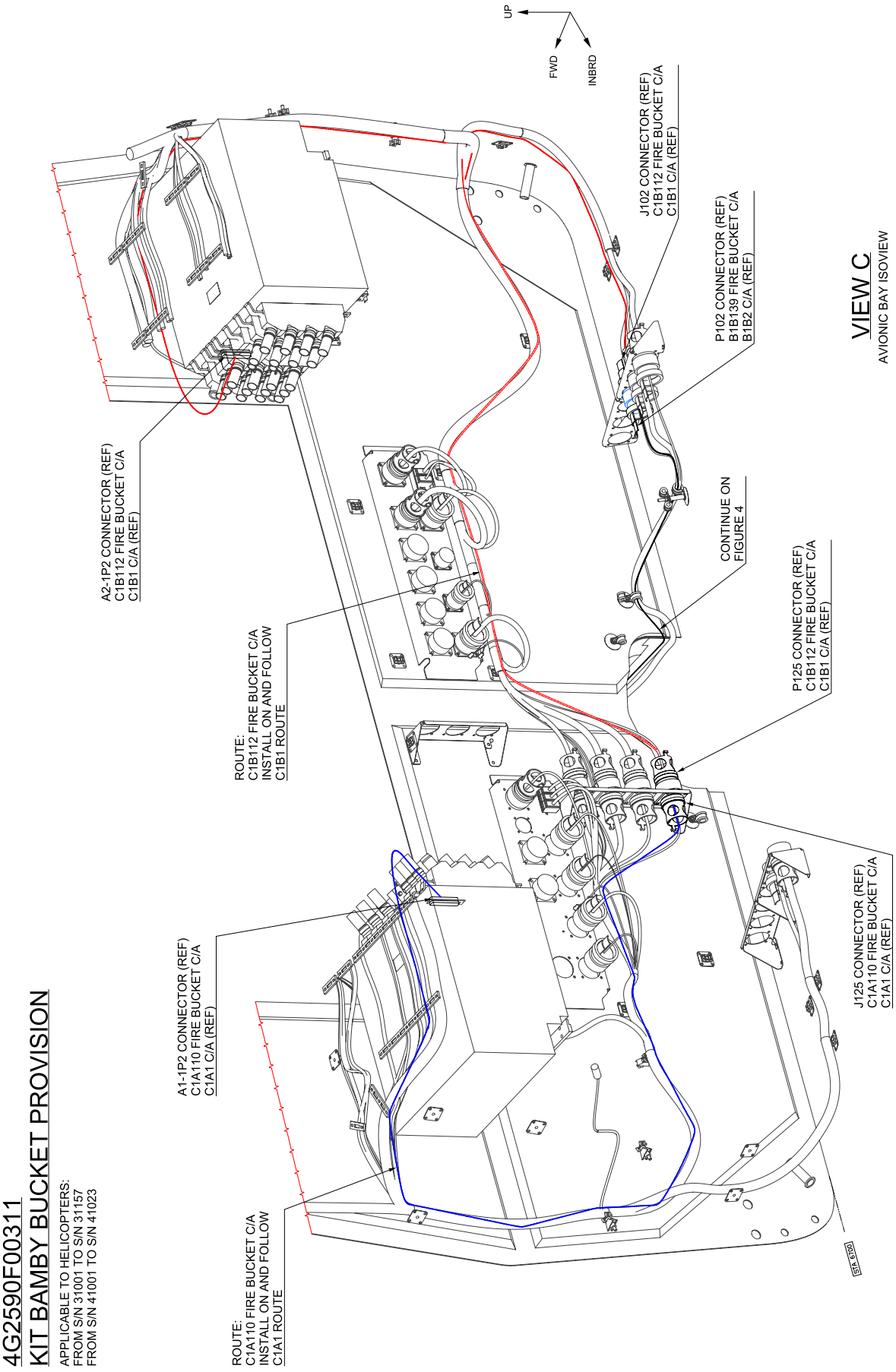

4G2590F00311
KIT BAMBY BUCKET PROVISION
APPLICABLE TO HELICOPTERS:
FROM S/N 31001 TO S/N 31157
FROM S/N 41001 TO S/N 41023
UP
FWD
INBRD
VIEW C
AVIONIC BAY ISOVIEW
J102 CONNECTOR (REF)
C1B112 FIRE BUCKET C/A
C1B1 C/A (REF)
P102 CONNECTOR (REF)
B1B139 FIRE BUCKET C/A
B1B2 C/A (REF)
A2-1P2 CONNECTOR (REF)
C1B112 FIRE BUCKET C/A
C1B1 C/A (REF)
CONTINUE ON
FIGURE 4
ROUTE:
C1B112 FIRE BUCKET C/A
INSTALL ON AND FOLLOW
C1B1 ROUTE
P125 CONNECTOR (REF)
C1B112 FIRE BUCKET C/A
C1B1 C/A (REF)
A1-1P2 CONNECTOR (REF)
C1A110 FIRE BUCKET C/A
C1A1 C/A (REF)
J125 CONNECTOR (REF)
C1A110 FIRE BUCKET C/A
C1A1 C/A (REF)
ROUTE:
C1A110 FIRE BUCKET C/A
INSTALL ON AND FOLLOW
C1A1 ROUTE
STA 6100

Figure 5

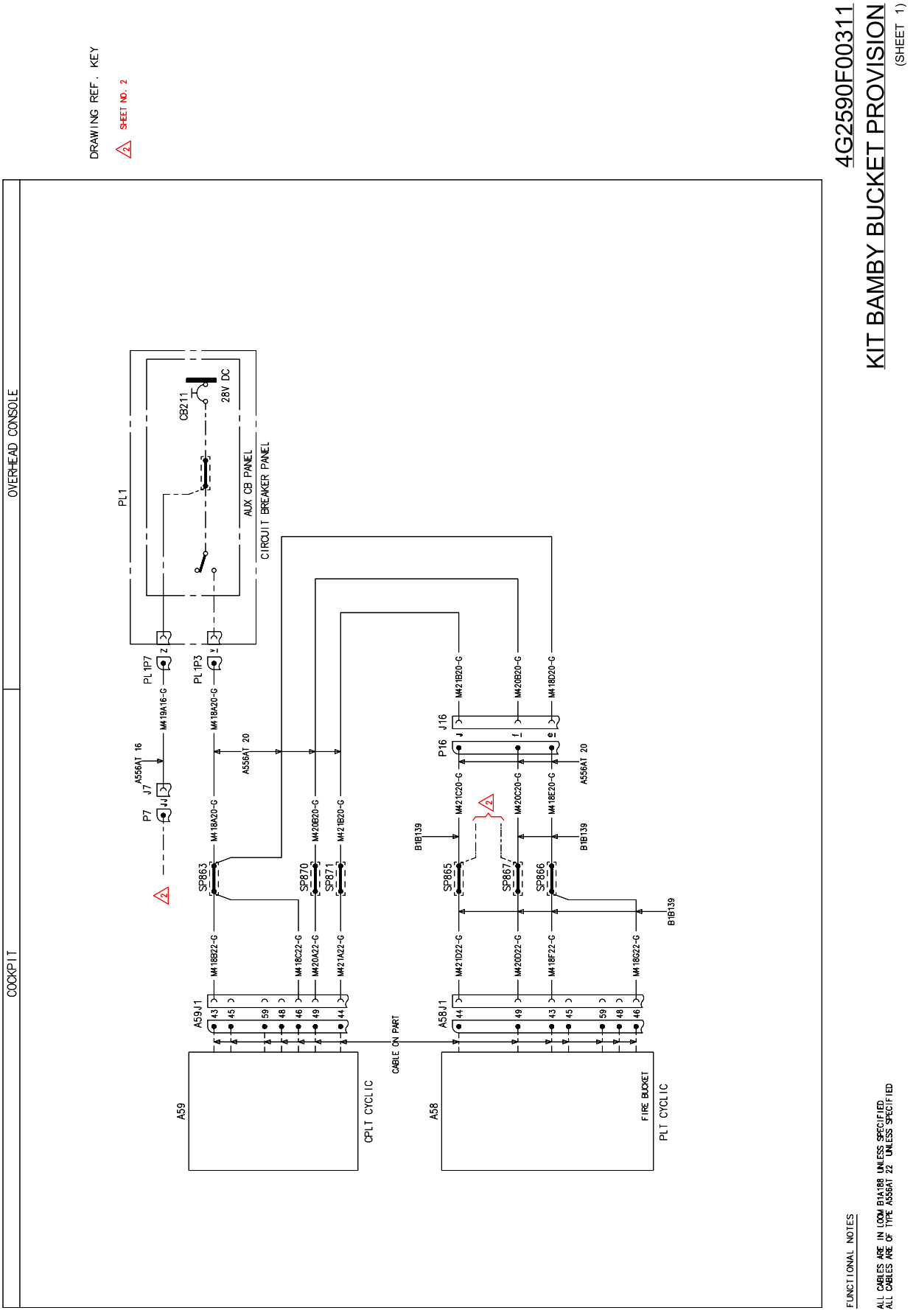

4G2590F00311
KIT BAMBY BUCKET PROVISION
(SHEET 1)
DRAWING REF. KEY
SHEET NO. 2
COCKPIT
OVERHEAD CONSOLE
PL1
AUX CB PANEL
CIRCUIT BREAKER PANEL
CB211
28V DC
PL1P7
PL1P3
M19A16-G
M18A20-G
A556AT 16
A556AT 20
J7
P7
J16
P16
M18A20-G
M20B20-G
M21B20-G
M21C20-G
M20C20-G
M18E20-G
M18D20-G
B1B139
SP863
SP870
SP871
SP865
SP867
SP866
M18B22-G
M18C22-G
M20A22-G
M21A22-G
M21D22-G
M20D22-G
M18F22-G
M18G22-G
A59J1
A58J1
CABLE ON PART
A59
CPLT CYCLIC
A58
FIRE BUCKET
PLT CYCLIC
FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM B1A188 UNLESS SPECIFIED
ALL CABLES ARE OF TYPE A556AT 22 UNLESS SPECIFIED

Figure 6

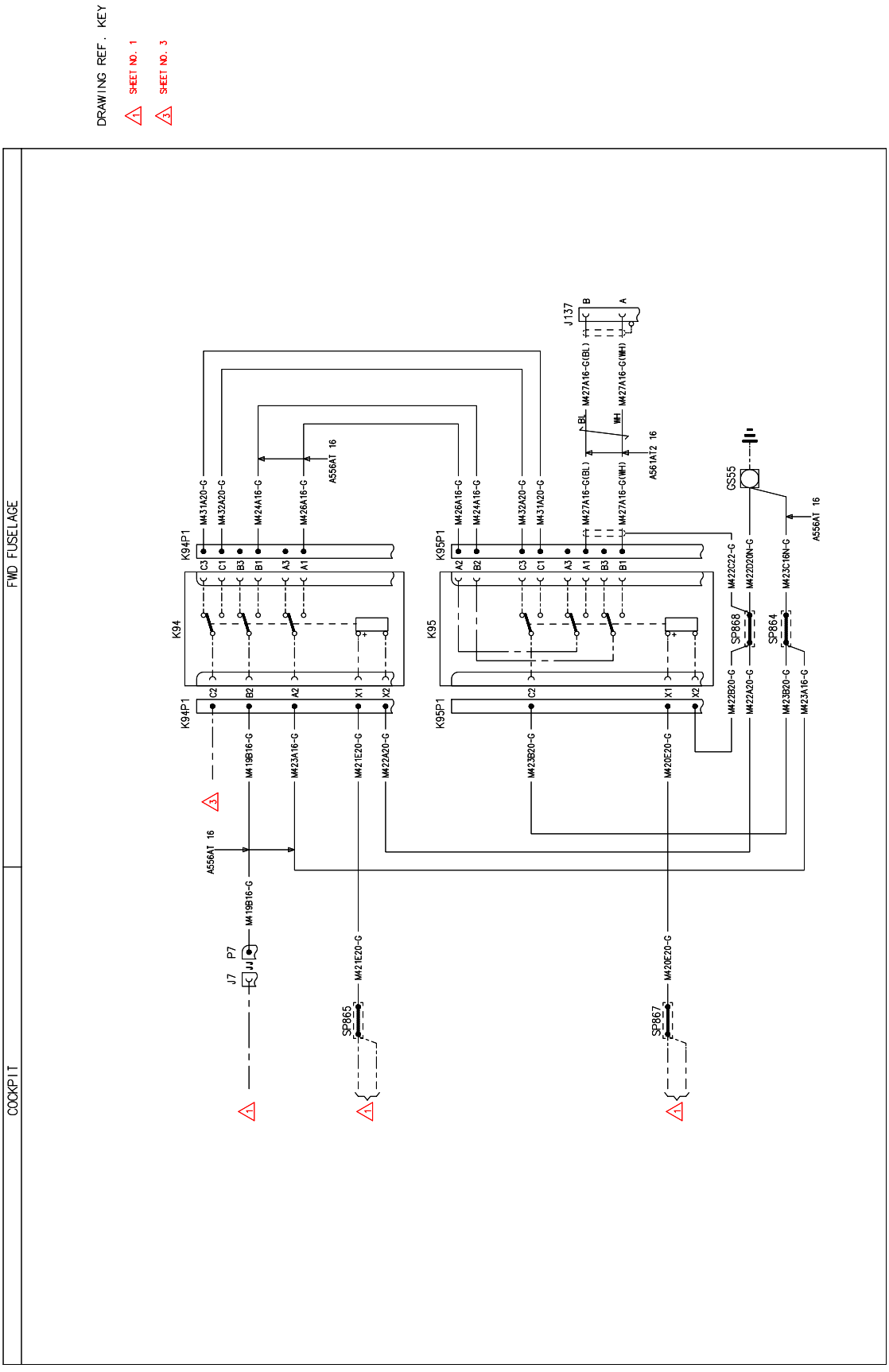

DRAWING REF. KEY
SHEET NO. 1
SHEET NO. 3
COCKPIT
FWD FUSELAGE
K94
K95
K94P1
K95P1
J137
J7
P7
SP865
SP867
SP868
SP864
GS55
FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM B1B139 UNLESS SPECIFIED
ALL CABLES ARE OF TYPE A556AT 20 UNLESS SPECIFIED

Figure 7

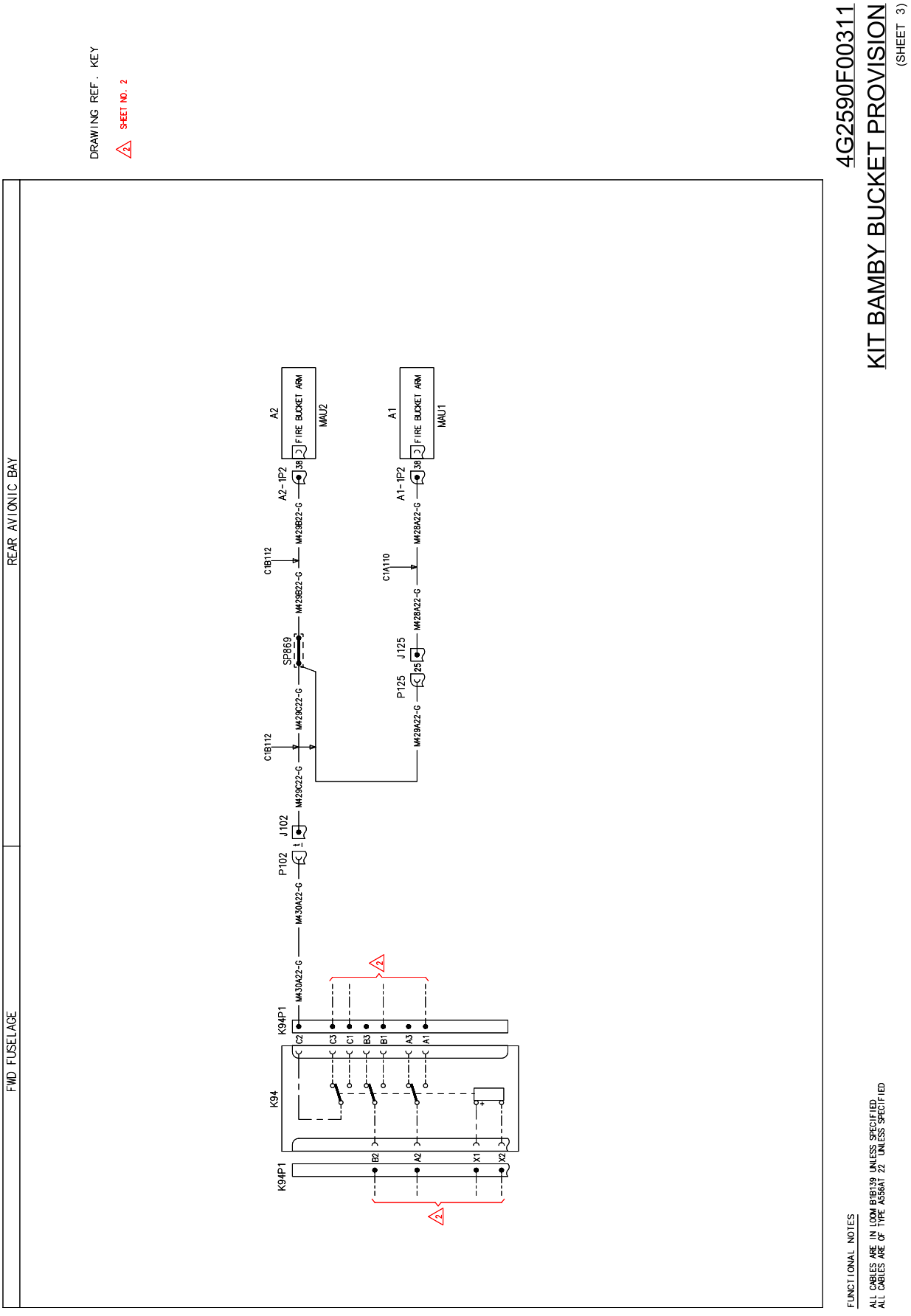

4G2590F00311
KIT BAMBY BUCKET PROVISION
(SHEET 3)
DRAWING REF. KEY
2 SHEET NO. 2
FWD FUSELAGE
REAR AVIONIC BAY
A2
FIRE BUCKET ARM
MAU2
A1
FIRE BUCKET ARM
MAU1
A2-1P2
A1-1P2
38
C1B112
C1A110
MA28B22-G
MA28A22-G
SP869
J125
P125
25
MA29C22-G
MA29A22-G
J102
P102
1
MA30A22-G
K94P1
C2
C3
C1
B3
B1
A3
A1
K94
B2
A2
X1
X2
2
1
FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM B1B139 UNLESS SPECIFIED
ALL CABLES ARE OF TYPE A556AT 22 UNLESS SPECIFIED

Figure 8

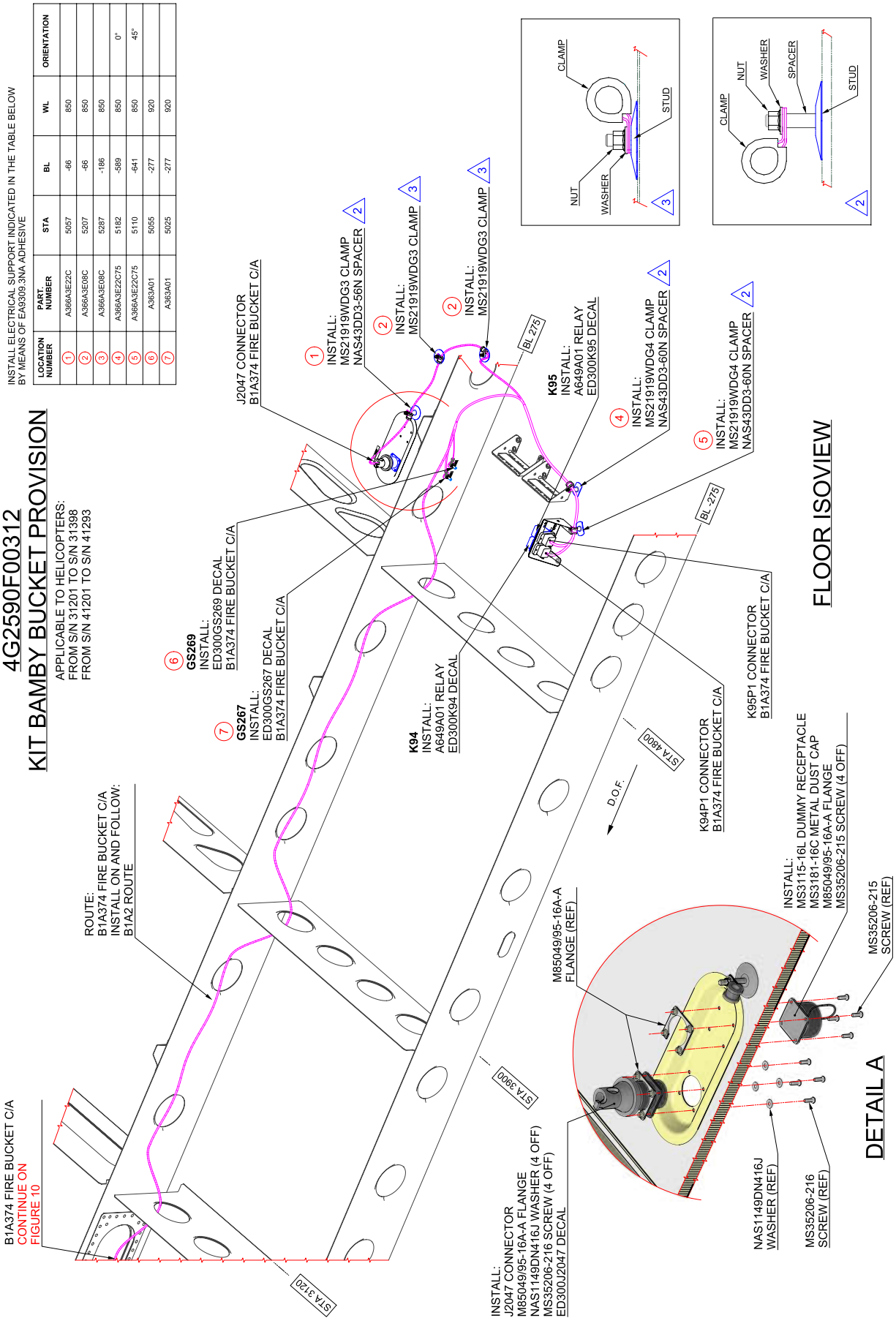

4G2590F00312
KIT BAMBY BUCKET PROVISION
APPLICABLE TO HELICOPTERS:
FROM S/N 31201 TO S/N 31398
FROM S/N 41201 TO S/N 41293
INSTALL ELECTRICAL SUPPORT INDICATED IN THE TABLE BELOW
BY MEANS OF EA9309.3NA ADHESIVE
LOCATION NUMBER | PART NUMBER | STA | BL | WL | ORIENTATION
1 | A366A3E22C | 5057 | -66 | 850 |
2 | A366A3E08C | 5207 | -66 | 850 |
3 | A366A3E08C | 5287 | -186 | 850 |
4 | A366A3E22C75 | 5182 | -589 | 850 | 0°
5 | A366A3E22C75 | 5110 | -641 | 850 | -45°
6 | A363A01 | 5055 | -277 | 920 |
7 | A363A01 | 5025 | -277 | 920 |
ROUTE:
B1A374 FIRE BUCKET C/A
INSTALL ON AND FOLLOW:
B1A2 ROUTE
B1A374 FIRE BUCKET C/A
CONTINUE ON
FIGURE 10
STA 3120
STA 3900
STA 4800
D.O.F.
BL -275
BL 275
1 INSTALL:
MS21919WDG3 CLAMP
NAS43DD3-56N SPACER
2 INSTALL:
MS21919WDG3 CLAMP
3 INSTALL:
MS21919WDG3 CLAMP
4 INSTALL:
MS21919WDG4 CLAMP
NAS43DD3-60N SPACER
5 INSTALL:
MS21919WDG4 CLAMP
NAS43DD3-60N SPACER
6 GS269
INSTALL:
ED300GS269 DECAL
B1A374 FIRE BUCKET C/A
7 GS267
INSTALL:
ED300GS267 DECAL
B1A374 FIRE BUCKET C/A
J2047 CONNECTOR
B1A374 FIRE BUCKET C/A
K94
INSTALL:
A649A01 RELAY
ED300K94 DECAL
K95
INSTALL:
A649A01 RELAY
ED300K95 DECAL
K94P1 CONNECTOR
B1A374 FIRE BUCKET C/A
K95P1 CONNECTOR
B1A374 FIRE BUCKET C/A
INSTALL:
J2047 CONNECTOR
M85049/95-16A-A FLANGE
NAS1149DN416J WASHER (4 OFF)
MS35206-216 SCREW (4 OFF)
ED300J2047 DECAL
M85049/95-16A-A
FLANGE (REF)
INSTALL:
MS3115-16L DUMMY RECEPTACLE
MS3181-16C METAL DUST CAP
M85049/95-16A-A FLANGE
MS35206-215 SCREW (4 OFF)
MS35206-215
SCREW (REF)
NAS1149DN416J
WASHER (REF)
MS35206-216
SCREW (REF)
DETAIL A
FLOOR ISOVIEW
CLAMP
NUT
WASHER
STUD
CLAMP
NUT
WASHER
SPACER
STUD

Figure 9

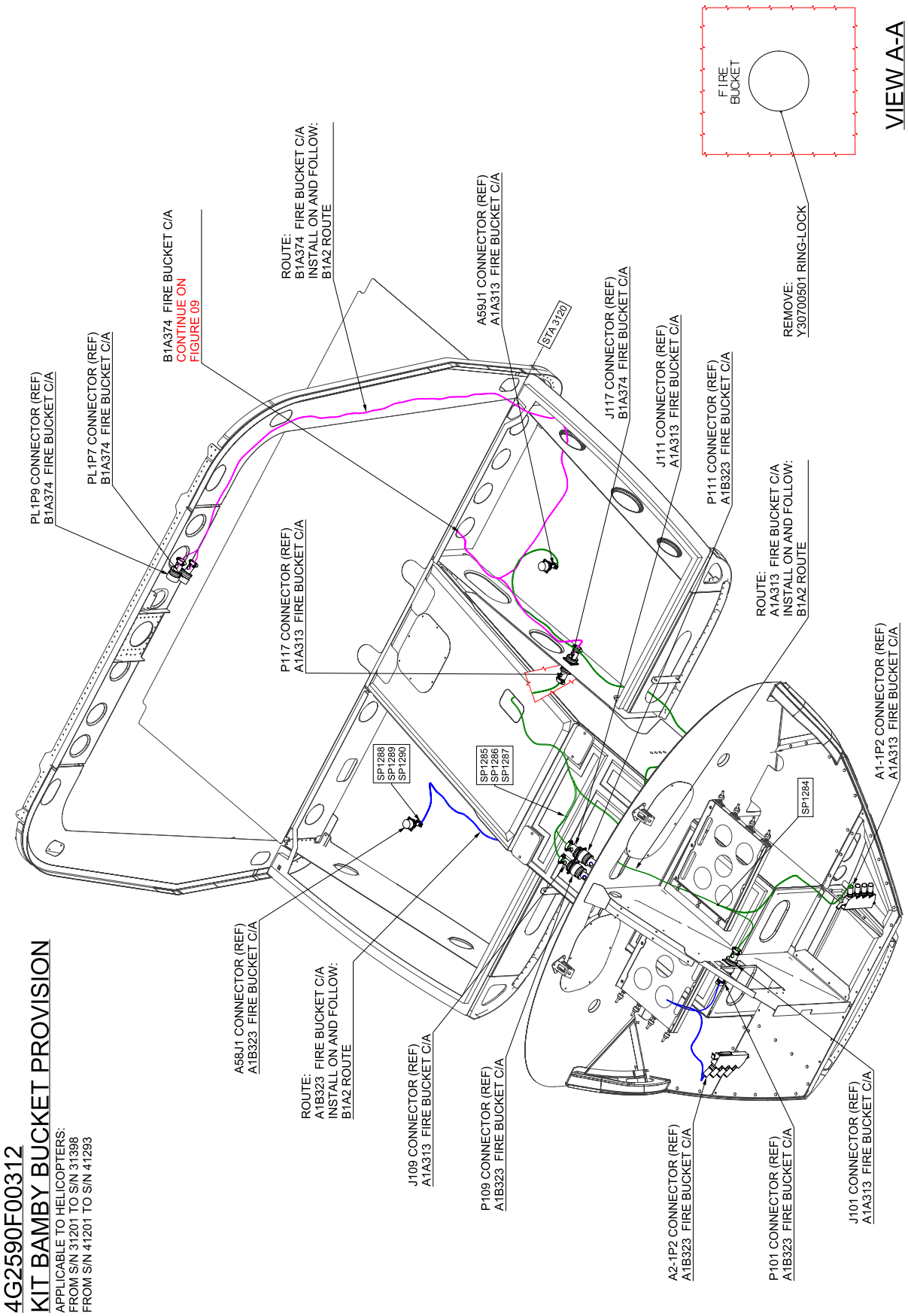

4G2590F00312
KIT BAMBY BUCKET PROVISION
APPLICABLE TO HELICOPTERS:
FROM S/N 31201 TO S/N 31398
FROM S/N 41201 TO S/N 41293
PL1P9 CONNECTOR (REF)
B1A374 FIRE BUCKET C/A
PL1P7 CONNECTOR (REF)
B1A374 FIRE BUCKET C/A
B1A374 FIRE BUCKET C/A
CONTINUE ON
FIGURE 09
ROUTE:
B1A374 FIRE BUCKET C/A
INSTALL ON AND FOLLOW:
B1A2 ROUTE
A59J1 CONNECTOR (REF)
A1A313 FIRE BUCKET C/A
STA 3720
J117 CONNECTOR (REF)
B1A374 FIRE BUCKET C/A
J111 CONNECTOR (REF)
A1A313 FIRE BUCKET C/A
P111 CONNECTOR (REF)
A1B323 FIRE BUCKET C/A
REMOVE:
Y30700501 RING-LOCK
FIRE
BUCKET
VIEW A-A
P117 CONNECTOR (REF)
A1A313 FIRE BUCKET C/A
ROUTE:
A1A313 FIRE BUCKET C/A
INSTALL ON AND FOLLOW:
B1A2 ROUTE
A1-1P2 CONNECTOR (REF)
A1A313 FIRE BUCKET C/A
SP1288
SP1289
SP1290
SP1285
SP1286
SP1287
SP1284
A58J1 CONNECTOR (REF)
A1B323 FIRE BUCKET C/A
ROUTE:
A1B323 FIRE BUCKET C/A
INSTALL ON AND FOLLOW:
B1A2 ROUTE
J109 CONNECTOR (REF)
A1A313 FIRE BUCKET C/A
P109 CONNECTOR (REF)
A1B323 FIRE BUCKET C/A
A2-1P2 CONNECTOR (REF)
A1B323 FIRE BUCKET C/A
P101 CONNECTOR (REF)
A1B323 FIRE BUCKET C/A
J101 CONNECTOR (REF)
A1A313 FIRE BUCKET C/A

Figure 10

4G2590F00312

KIT BAMBY BUCKET PROVISION

(SHEET 1)

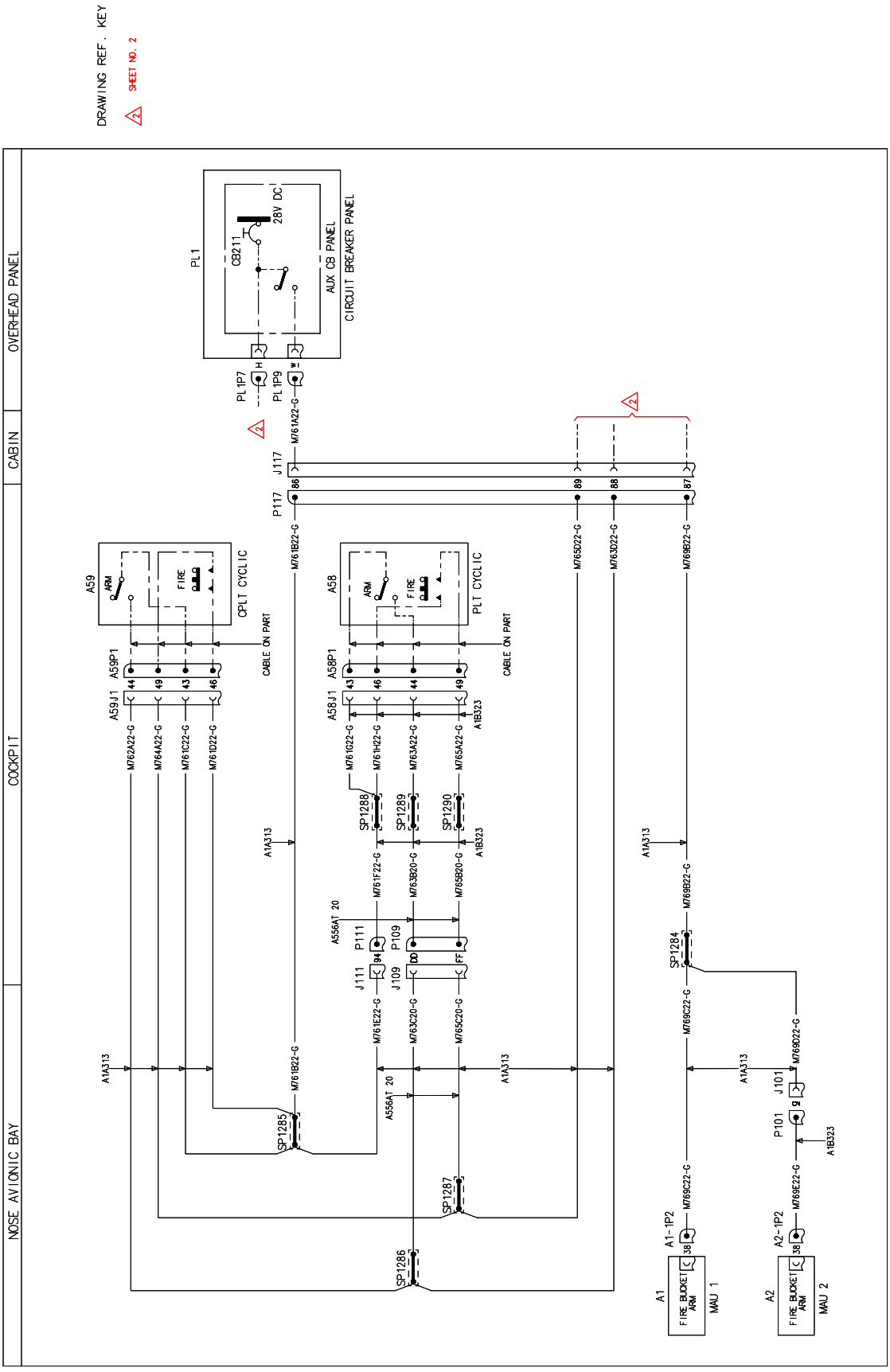


Figure 11

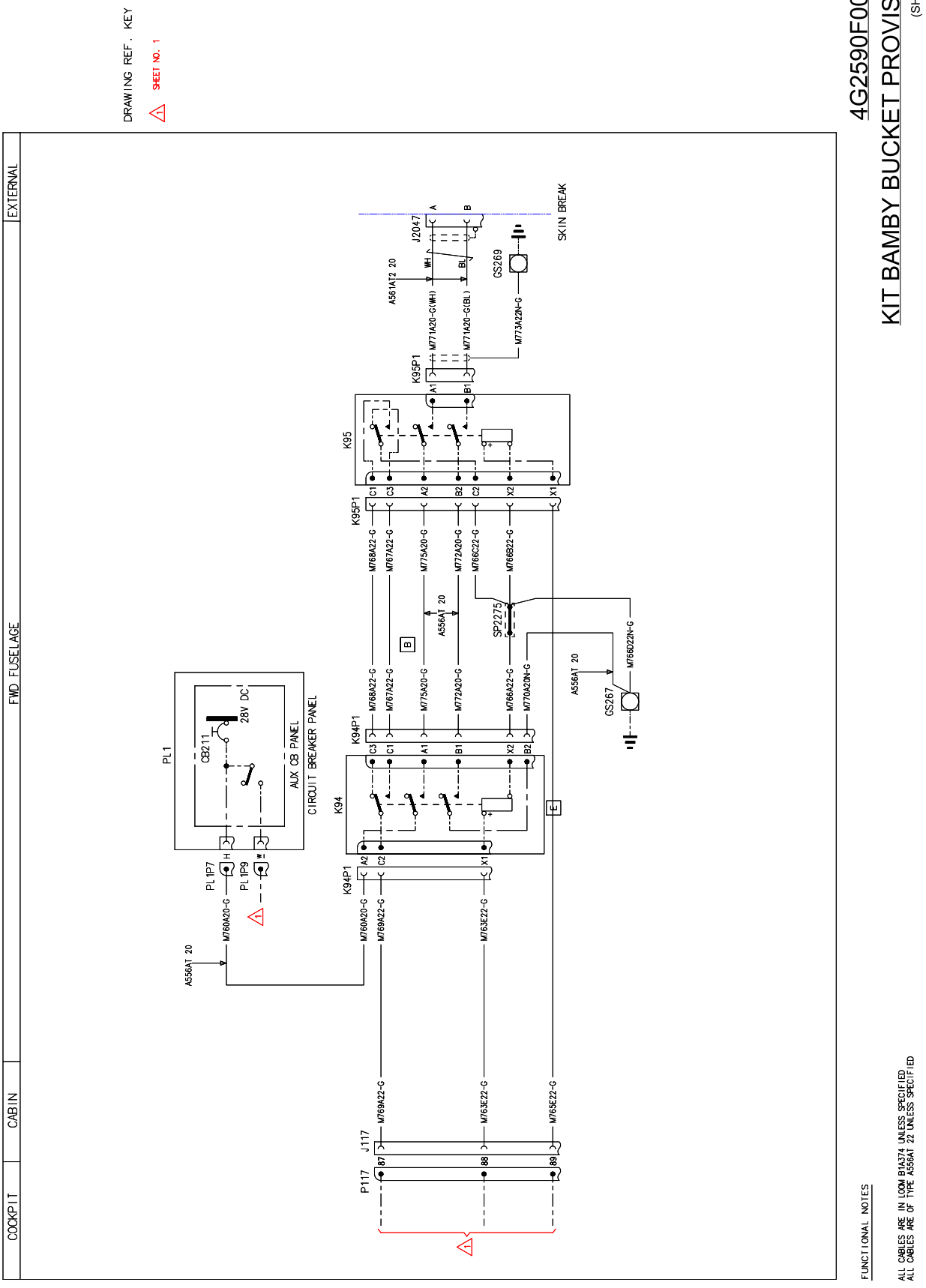

4G2590F00312
KIT BAMBY BUCKET PROVISION
(SHEET 2)
DRAWING REF. KEY
SHEET NO. 1
COCKPIT
CABIN
FWD FUSELAGE
EXTERNAL
SKIN BREAK
J2047
GS269
K95P1
K95
K94P1
K94
PL1
CB211
28V DC
AUX CB PANEL
CIRCUIT BREAKER PANEL
SP2275
GS267
J117
P117
FUNCTIONAL NOTES
ALL CABLES ARE IN LOOM B1A374 UNLESS SPECIFIED
ALL CABLES ARE OF TYPE A556AT 22 UNLESS SPECIFIED

Figure 12

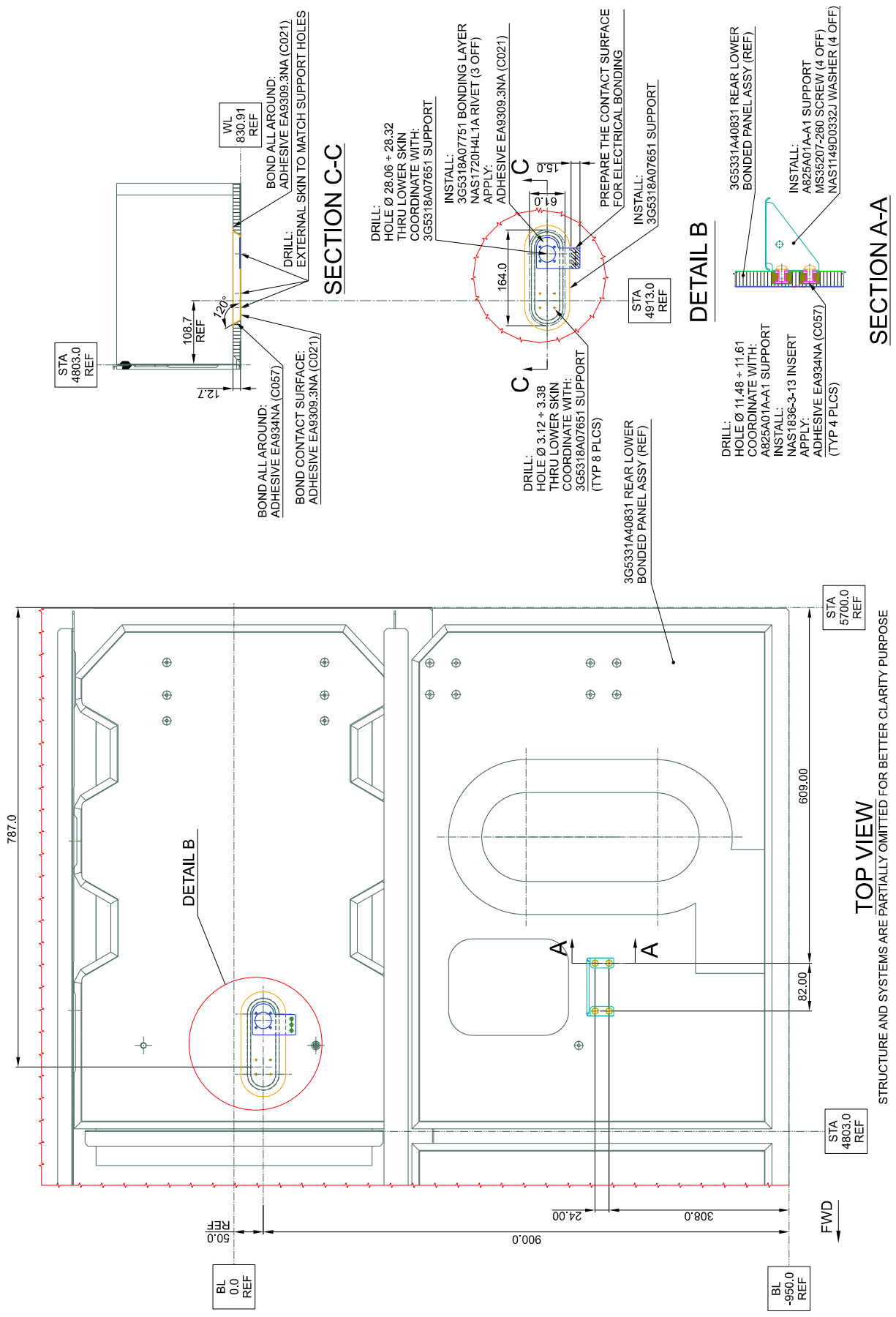

SECTION C-C
DETAIL B
SECTION A-A
TOP VIEW
STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
WL 830.91 REF
STA 4803.0 REF
STA 4913.0 REF
STA 5700.0 REF
BL 0.0 REF
BL -950.0 REF
FWD
787.0
609.00
82.00
900.0
308.0
24.00
50.0 REF
108.7 REF
120°
12.7
164.0
61.0
15.0
BOND ALL AROUND: ADHESIVE EA9309.3NA (C021)
DRILL: EXTERNAL SKIN TO MATCH SUPPORT HOLES
BOND ALL AROUND: ADHESIVE EA934NA (C057)
BOND CONTACT SURFACE: ADHESIVE EA9309.3NA (C021)
DRILL: HOLE Ø 28.06 ÷ 28.32 THRU LOWER SKIN COORDINATE WITH: 3G5318A07651 SUPPORT
INSTALL: 3G5318A07751 BONDING LAYER NAS1720H4L1A RIVET (3 OFF)
APPLY: ADHESIVE EA9309.3NA (C021)
PREPARE THE CONTACT SURFACE FOR ELECTRICAL BONDING
INSTALL: 3G5318A07651 SUPPORT
DRILL: HOLE Ø 3.12 ÷ 3.38 THRU LOWER SKIN COORDINATE WITH: 3G5318A07651 SUPPORT (TYP 8 PLCS)
3G5331A40831 REAR LOWER BONDED PANEL ASSY (REF)
3G5331A40831 REAR LOWER BONDED PANEL ASSY (REF)
INSTALL: A825A01A-A1 SUPPORT MS35207-260 SCREW (4 OFF) NAS1149D0332J WASHER (4 OFF)
DRILL: HOLE Ø 11.48 ÷ 11.61 COORDINATE WITH: A825A01A-A1 SUPPORT
INSTALL: NAS1836-3-13 INSERT
APPLY: ADHESIVE EA934NA (C057) (TYP 4 PLCS)

Figure 13

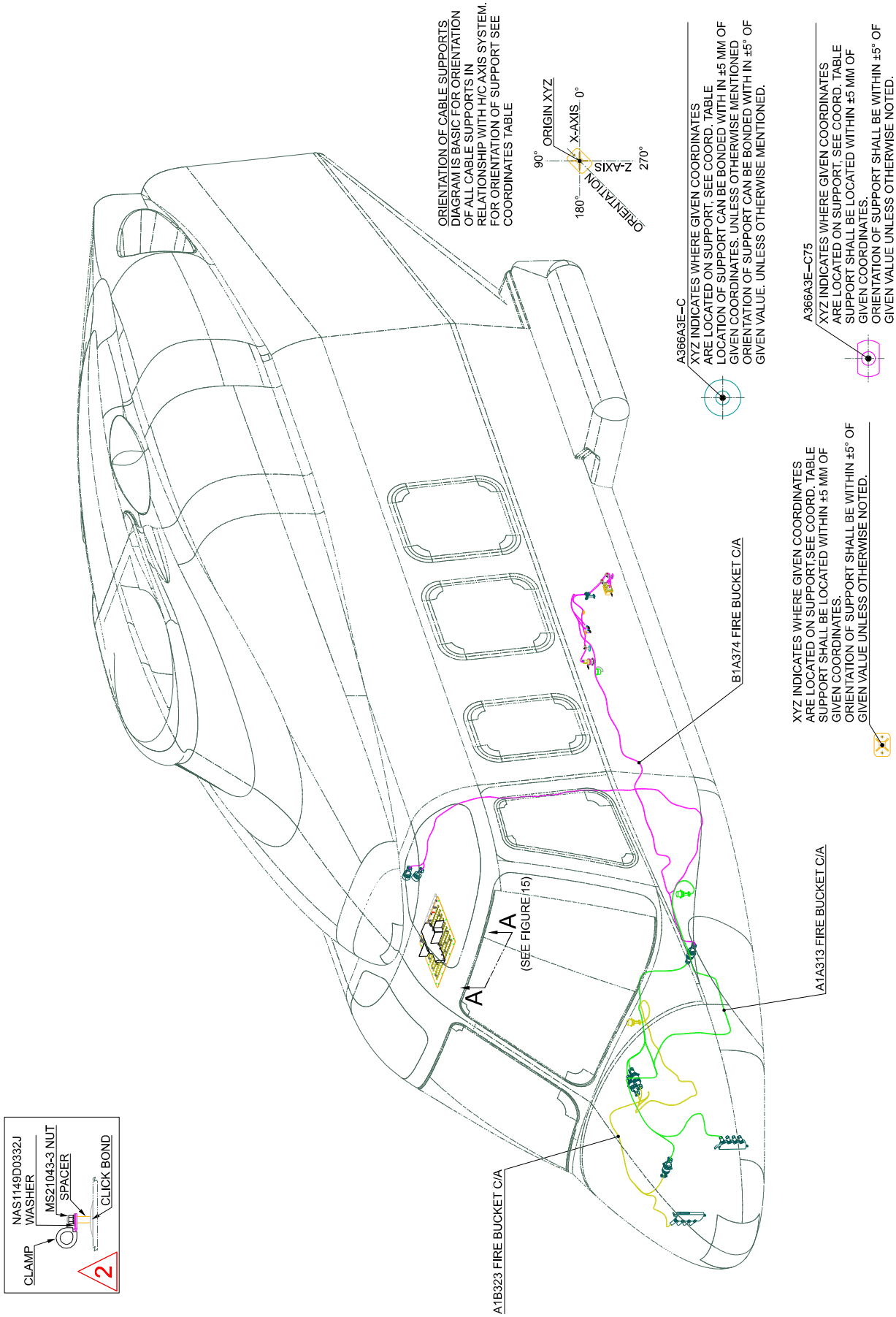

ORIENTATION OF CABLE SUPPORTS DIAGRAM IS BASIC FOR ORIENTATION OF ALL CABLE SUPPORTS IN RELATIONSHIP WITH H/C AXIS SYSTEM. FOR ORIENTATION OF SUPPORT SEE COORDINATES TABLE
ORIGIN XYZ
X-AXIS
Z-AXIS
ORIENTATION
0°
90°
180°
270°
A366A3E–C
XYZ INDICATES WHERE GIVEN COORDINATES ARE LOCATED ON SUPPORT, SEE COORD. TABLE LOCATION OF SUPPORT CAN BE BONDED WITH IN ±5 MM OF GIVEN COORDINATES. UNLESS OTHERWISE MENTIONED ORIENTATION OF SUPPORT CAN BE BONDED WITH IN ±5° OF GIVEN VALUE. UNLESS OTHERWISE MENTIONED.
A366A3E–C75
XYZ INDICATES WHERE GIVEN COORDINATES ARE LOCATED ON SUPPORT, SEE COORD. TABLE SUPPORT SHALL BE LOCATED WITHIN ±5 MM OF GIVEN COORDINATES.
ORIENTATION OF SUPPORT SHALL BE WITHIN ±5° OF GIVEN VALUE UNLESS OTHERWISE NOTED.
B1A374 FIRE BUCKET C/A
A1A313 FIRE BUCKET C/A
A1B323 FIRE BUCKET C/A
A
A
(SEE FIGURE 15)
NAS1149D0332J WASHER
MS21043-3 NUT
SPACER
CLICK BOND
CLAMP
2

Figure 14

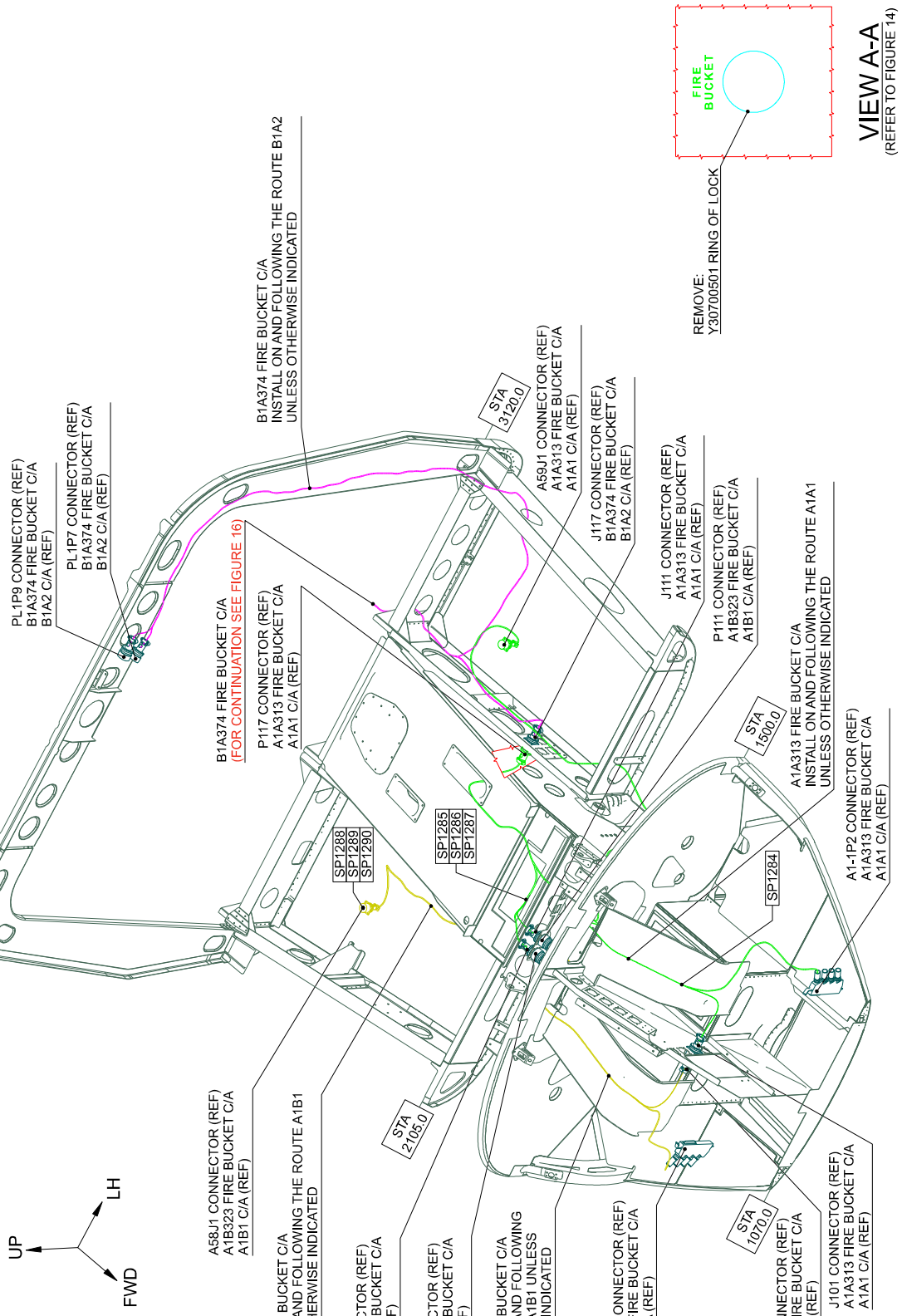
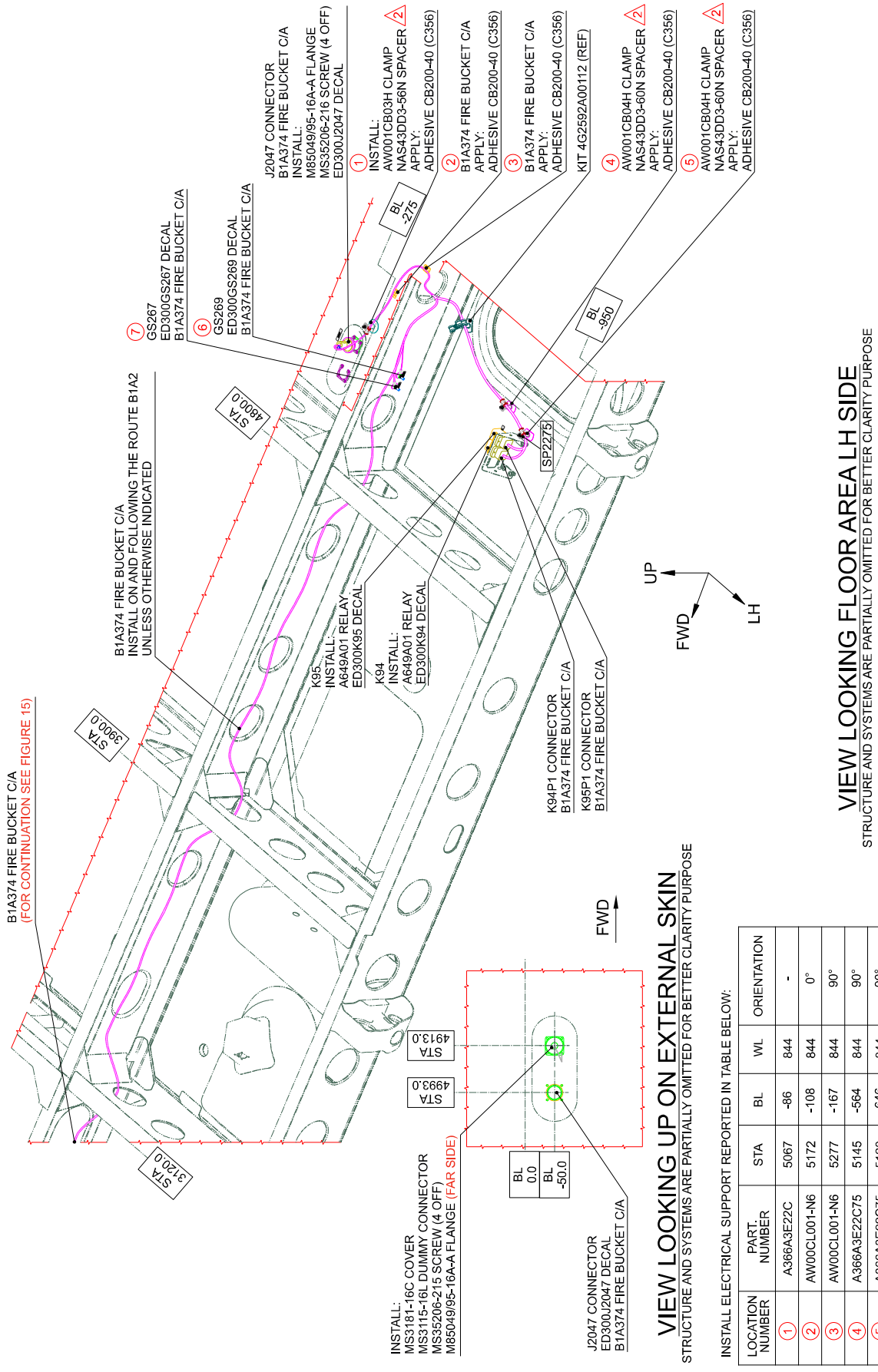

VIEW LOOKING FROM STA 1070 TO STA 3120
STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE
VIEW A-A
(REFER TO FIGURE 14)
FIRE BUCKET
REMOVE:
Y30700501 RING OF LOCK
PL1P9 CONNECTOR (REF)
B1A374 FIRE BUCKET C/A
B1A2 C/A (REF)
PL1P7 CONNECTOR (REF)
B1A374 FIRE BUCKET C/A
B1A2 C/A (REF)
B1A374 FIRE BUCKET C/A
INSTALL ON AND FOLLOWING THE ROUTE B1A2
UNLESS OTHERWISE INDICATED
B1A374 FIRE BUCKET C/A
(FOR CONTINUATION SEE FIGURE 16)
P117 CONNECTOR (REF)
A1A313 FIRE BUCKET C/A
A1A1 C/A (REF)
A59J1 CONNECTOR (REF)
A1A313 FIRE BUCKET C/A
A1A1 C/A (REF)
J117 CONNECTOR (REF)
B1A374 FIRE BUCKET C/A
B1A2 C/A (REF)
J111 CONNECTOR (REF)
A1A313 FIRE BUCKET C/A
A1A1 C/A (REF)
P111 CONNECTOR (REF)
A1B323 FIRE BUCKET C/A
A1B1 C/A (REF)
A1A313 FIRE BUCKET C/A
INSTALL ON AND FOLLOWING THE ROUTE A1A1
UNLESS OTHERWISE INDICATED
A1-1P2 CONNECTOR (REF)
A1A313 FIRE BUCKET C/A
A1A1 C/A (REF)
STA 3120.0
STA 1500.0
STA 1070.0
STA 2105.0
SP1288
SP1289
SP1290
SP1285
SP1286
SP1287
SP1284
A58J1 CONNECTOR (REF)
A1B323 FIRE BUCKET C/A
A1B1 C/A (REF)
A1B323 FIRE BUCKET C/A
INSTALL ON AND FOLLOWING THE ROUTE A1B1
UNLESS OTHERWISE INDICATED
J109 CONNECTOR (REF)
A1A313 FIRE BUCKET C/A
A1A1 C/A (REF)
P109 CONNECTOR (REF)
A1B323 FIRE BUCKET C/A
A1B1 C/A (REF)
A1B323 FIRE BUCKET C/A
INSTALL ON AND FOLLOWING
THE ROUTE A1B1 UNLESS
OTHERWISE INDICATED
A2-1P2 CONNECTOR (REF)
A1B323 FIRE BUCKET C/A
A1B1 C/A (REF)
P101 CONNECTOR (REF)
A1B323 FIRE BUCKET C/A
A1B1 C/A (REF)
J101 CONNECTOR (REF)
A1A313 FIRE BUCKET C/A
A1A1 C/A (REF)
UP
LH
FWD

Figure 15



INSTALL ELECTRICAL SUPPORT REPORTED IN TABLE BELOW:

LOCATION NUMBER	PART NUMBER	STA	BL	WL	ORIENTATION
①	A366A3E22C	5067	-86	844	-
②	AW00CL001-N6	5172	-108	844	0°
③	AW00CL001-N6	5277	-167	844	90°
④	A366A3E22C75	5145	-564	844	90°
⑤	A366A3E22C75	5120	-646	844	90°
⑥	A363A01	5055	-277	920	-
⑦	A363A01	5025	-277	980	-

Figure 16

3G2590W00111
WIRING DIAGRAM FIRE BUCKET
SHEET 1

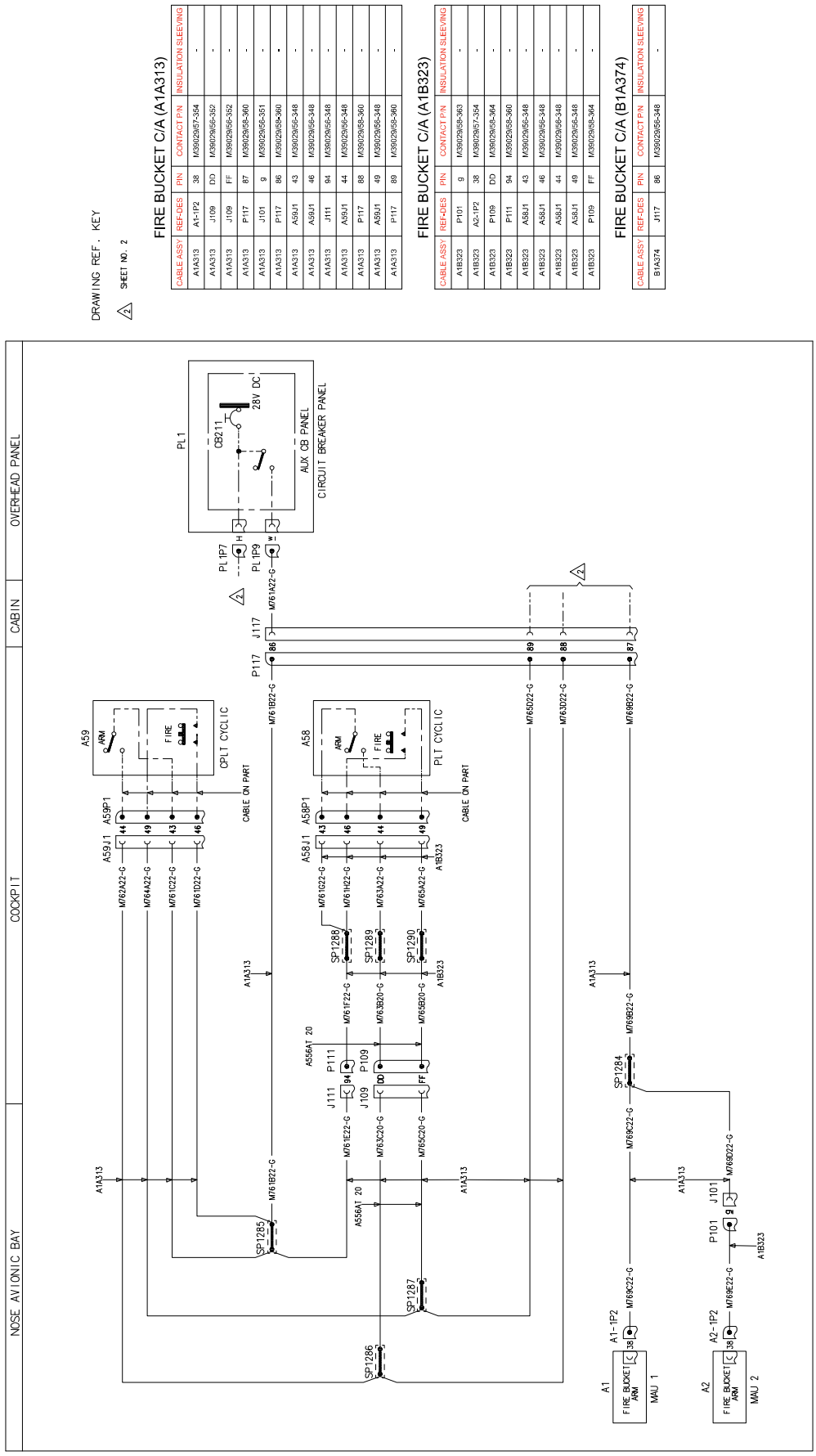


Figure 17

3G2590W00111
WIRING DIAGRAM FIRE BUCKET
SHEET 2

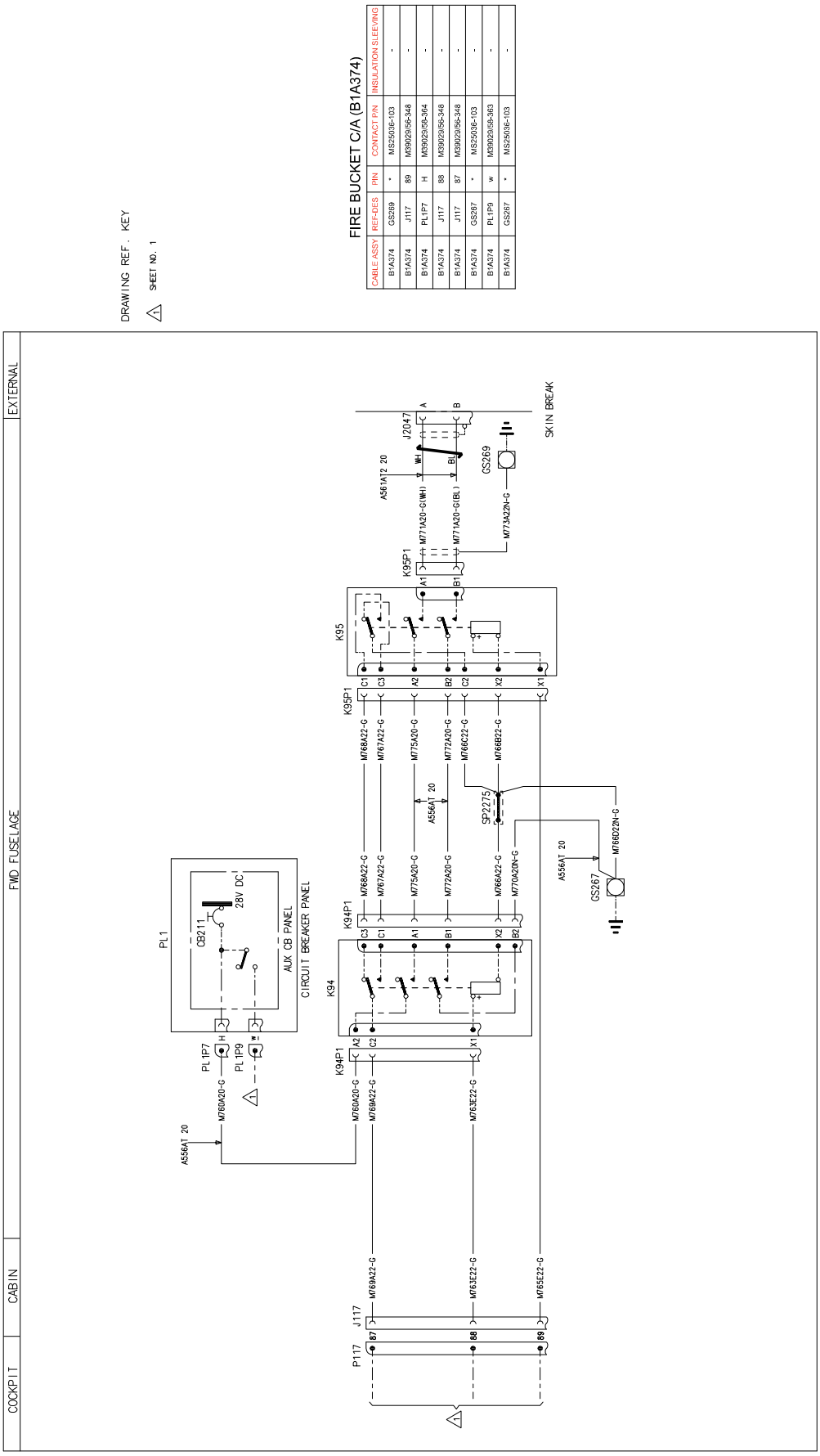


Figure 18

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.