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AgustaWestland Products

**SERVICE BULLETIN** 

N° 139-619

**DATE:** February 18, 2021 **REV.:** A - March 18, 2022

# **TITLE**

ATA 56 - REPLACEMENT OF BUBBLE WINDOW WITH STANDARD WINDOW

# **REVISION LOG**

Revision A of this Service Bulletin introduces Part II to extend the document effectivity.



## 1. PLANNING INFORMATION

## A. EFFECTIVITY

## Part I

AW139 helicopter S/N 41509.

#### Part II

AW139 helicopters S/N 31772, S/N 31773 and S/N 31775.

#### **B. COMPLIANCE**

At Customer's option.

## C. CONCURRENT REQUIREMENTS

N.A.

## D. REASON

This Service Bulletin is issued to provide the necessary instructions to perform bubble windows removal, standard windows installation and HEELS application around the introduced standard windows.

## E. DESCRIPTION

The main purpose of this Service Bulletin is to remove the bubble windows P/N 3G5620L00251 and install the standard windows.

Other required changes are associated with this replacement:

- HEEL lights cabin windows variant P/N 3G3350A04311 consists of the HEELS high visibility structural provision P/N 3G5318A18911 and the installation of the power supply assy P/N 3G3350A01711, the battery assy P/N 3G3350A01811, the HEELS light assy P/N 3G3350A00611 and the C/As B1A298, B1B298 and B1B326, ref Part I and Part II;
- liner retromod P/N 3G2580P22211 consists of the replacement of the old liners (P/N 3G2580L03533 and P/N 3G2580L03634) with the new ones compatible with standard windows and HEELS (P/N 3G2580P02331 and P/N 3G2580P02233), ref Part I;
- exterior paint scheme retromod P/N 3G1110P00111 consists of painting around standard windows to indicate the new emergency exits, ref Part I;
- window liners variant for bubble windows P/N 3G2580P20011 provides instructions to replace bubble with standard windows on specific helicopter configurations, ref Part II.

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## 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 thirty (30) MMH;

Part II: approximately thirty (30) MMH;

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

#### H. WEIGHT AND BALANCE

<u>PART I</u>			
WEIGHT (Kg)		1.39	I
	ARM (mm)	MOMENT (Kgmm)	
LONGITUDINAL BALANCE	3643	5063.77	
LATERAL BALANCE	123	170.97	
PART II			Ī
WEIGHT (Kg)		1.77	
	ARM (mm)	MOMENT (Kgmm)	
LONGITUDINAL BALANCE	2400	4248	
LATERAL BALANCE	66	116.82	

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# I. REFERENCES

# 1) PUBLICATIONS

DATA N	<u>MODULE</u>	<u>DESCRIPTION</u>	<u>PART</u>
DM01	39-A-00-20-00-00A-120A-A	Helicopter on ground for a safe maintenance	I, II
DM02	39-A-06-41-00-00A-010A-A	Access doors and panels - General data	I, II
DM03	39-A-56-22-01-00A-920A-K	Left cabin bubble window - Replacement	I
DM04	39-A-56-22-02-00A-920A-K	Right cabin bubble window - Replacement	I
DM05	39-A-56-21-01-00A-920A-A	Left cabin window - Replacement	I, II
DM06	39-A-56-21-02-00A-920A-A	Right cabin window - Replacement	I, II
DM07	39-C-33-52-11-00A-921A-K	Left cabin window light - Replacement (remove and install a new item)	I, II
DM08	39-C-33-52-12-00A-921A-K	Right cabin window light - Replacement (remove and install a new item)	I, II
DM09	39-A-11-00-01-00A-720A-A	Decal - Install procedure	I, II
DM10	39-C-33-52-00-00A-340A-K	Emergency exit lighting system - Function test	I, II

Following Data Modules refer to CSRP:

<u>DATA I</u>	<u>MODULE</u>	<b>DESCRIPTION</b>	<u>PART</u>
DM11	CSRP-A-51-42-00-00A-720A-D	Potted inserts –	II
		Install procedure	

# 2) ACRONYMS

AMDI	Aircraft Material Data Information
AMP	Aircraft Maintenance Publication
AR	As Required
AVCS	Active Vibration Control System
DM	Data Module
DOA	Design Organization Approval
EASA	European Aviation Safety Agency
HEELS	Helicopter Emergency Exit Lighting System
ICS	Intercommunication System
LHD	Leonardo Helicopters Division
MMH	Maintenance-Man-Hours

# 3) ANNEX

N.A.



# J. PUBLICATIONS AFFECTED

N.A.

# K. SOFTWARE ACCOMPLISHMENT SUMMARY

N.A.

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# 2. MATERIAL INFORMATION

## A. REQUIRED MATERIALS

# 1) PARTS

## PART I

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
1	3G2500P01511		BABCOCK VARIANT	REF			-
2	3G1110P00111		EXTERIOR PAINT SCHEME RETROMOD	REF			-
3	3G2580P22211		LINER RETROMOD	REF			-
4	3G2580P02233		Window liner upr RH mod hoist breeze/HEELS	1		(1)	-
5	3G2580P02331		Window liner upr LH mod ICS with HEELS	1		(1)	-
6	999-2701-45-509		Decal	2			139-619L1
7	A180A005E2		Decal	2			139-619L1
8	A180A009E2		Decal	2			139-619L1
9	A487A003A		Strap assembly	2			139-619L1
10	MS27980-18B	MS27980-18N	Fastener	2			139-619L1
11	3G3350A04311		HEEL LIGHTS CABIN WINDOWS VARIANT	REF			-
12	001755-105-02	A593A-A05	Terminal board	1			139-619L1
13	3G3350A00611		HEELS light assy	2			139-619L1
14	3G3350A01711		Power supply assy	1			139-619L1
15	3G3350A01811		Battery assy	1			139-619L1
16	3G5318A18911		HEELS HIGH VISIBILITY STRUCT PROV	REF			-
17	3G3350V00351		Mounting bracket	2			139-619L1
18	A414A02V209E1		Connector support	2			139-619L1
19	MS27039-1-07		Screw	4			139-619L1
20	MS35207-260		Screw	8			139-619L1
21	NAS1149D0316J		Washer	8			139-619L1
22	NAS1832-3-5		Insert	4			139-619L1
23	NAS1836C08-13M		Insert	2			139-619L1
24	NAS1836C3-13M		Insert	8			139-619L1
25	3G9B01A29802	3G9B01A29801A10R	HEEL lights cabin windows C/A (B1A298)	1		(2)	139-619L1
26	3G9B01B29802	4C33E0400413A4D	HEEL lights cabin windows C/A (B1B298)	1		(2)	139-619L1
27	3G9B01B32602	4G3350A00112A1R	HEEL lights cabin windows C/A (B1B326)	1		(2)	139-619L1
28	A366A3E12C		Stud	5			139-619L1
29	A388A3E12C		Standoff	3			139-619L1
30	A522A02A		Mounting rail	1			139-619L1
31	AW001CB04H		Clamp	6			139-619L1
32	AW001CB05H		Clamp	1			139-619L1
33	AW001CB06H		Clamp	6			139-619L1
34	AW001CL000A-X3		Electrical support	16			139-619L1
35	AW001CL001-N6		Electrical support	3			139-619L1
36	AW001CL005C01- X1		Electrical support	2			139-619L1
37	AW001CL009-CM		Electrical support	4			139-619L1
38	AW001CL509-N6		Electrical support	2			139-619L1
39	ED300BT7		Decal	1			139-619L1



ED300DS66	#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL NO	TE LOG P/N
42         ED300DS68         Decal         1          139-619L1           43         ED300DS69         Decal         1          139-619L1           44         ED300DS70         Decal         1          139-619L1           45         ED300DS86         Decal         1          139-619L1           46         ED300DS88         Decal         1          139-619L1           47         ED300DS89         Decal         1          139-619L1           48         ED300DS90         Decal         1          139-619L1           49         ED300JE3         Decal         1          139-619L1           50         ED300JE3         Decal         1          139-619L1           51         ED300JE3         Decal         1          139-619L1           52         ED300JE263         Decal         1          139-619L1           53         ED300TB2047         Decal         1          139-619L1           54         ED300TB2054         Decal         1          139-619L1	40	ED300DS66		Decal	1		139-619L1
BD300DS69	41	ED300DS67		Decal	1		139-619L1
44         ED300DS70         Decal         1          139-619L1           45         ED300DS86         Decal         1          139-619L1           46         ED300DS87         Decal         1          139-619L1           47         ED300DS88         Decal         1          139-619L1           48         ED300DS90         Decal         1          139-619L1           49         ED300G7         Decal         1          139-619L1           50         ED300G27         Decal         1          139-619L1           51         ED300J283         Decal         1          139-619L1           51         ED300J284         Decal         1          139-619L1           52         ED300J284         Decal         1          139-619L1           53         ED300S113         Decal         1          139-619L1           54         ED300TB2047         Decal         1          139-619L1           55         ED300TB2054         Decal         1          139-619L1	42	ED300DS68		Decal	1		139-619L1
45         ED300DS86         Decal         1          139-619L1           46         ED300DS87         Decal         1          139-619L1           47         ED300DS88         Decal         1          139-619L1           48         ED300DS89         Decal         1          139-619L1           50         ED300G7         Decal         1          139-619L1           51         ED300J283         Decal         1          139-619L1           52         ED300J284         Decal         1          139-619L1           53         ED300S113         Decal         1          139-619L1           53         ED300T824         Decal         1          139-619L1           55         ED300TB2047         Decal         1          139-619L1           56         ED300TB2054         Decal         1          139-619L1           57         ED30TB263         Decal         1          139-619L1           58         M85049/95-12A-A         Flange connector         2          139-619L1 <td>43</td> <td>ED300DS69</td> <td></td> <td>Decal</td> <td>1</td> <td></td> <td>139-619L1</td>	43	ED300DS69		Decal	1		139-619L1
46         ED300DS87         Decal         1          139-619L1           47         ED300DS88         Decal         1          139-619L1           48         ED300DS90         Decal         1          139-619L1           49         ED300GF9         Decal         1          139-619L1           50         ED300J283         Decal         1          139-619L1           51         ED300J284         Decal         1          139-619L1           52         ED300J284         Decal         1          139-619L1           53         ED300S113         Decal         1          139-619L1           54         ED300TB2047         Decal         1          139-619L1           55         ED300TB2047         Decal         1          139-619L1           56         ED300TB2054         Decal         1          139-619L1           57         ED300TB203         Nut         5          139-619L1           58         M85049/95-12A-A         Flange connector         2          139-619L1	44	ED300DS70		Decal	1		139-619L1
47         ED300DS88         Decal         1          139-619L1           48         ED300DS89         Decal         1          139-619L1           49         ED300DS90         Decal         1          139-619L1           50         ED300J283         Decal         1          139-619L1           51         ED300J284         Decal         1          139-619L1           52         ED300J284         Decal         1          139-619L1           53         ED300S113         Decal         1          139-619L1           54         ED300TB2047         Decal         1          139-619L1           55         ED300TB2047         Decal         1          139-619L1           56         ED300TB2047         Decal         1          139-619L1           57         ED300TB2043         MS21043-3         Nut         5          139-619L1           59         MS2104313         MS21043-3         Nut         5          139-619L1           60         MS35206-241         Screw         2	45	ED300DS86		Decal	1		139-619L1
48         ED300DS89         Decal         1          139-619L1           49         ED300DS90         Decal         1          139-619L1           50         ED300G7         Decal         1          139-619L1           51         ED300J283         Decal         1          139-619L1           52         ED300J284         Decal         1          139-619L1           53         ED300S113         Decal         1          139-619L1           54         ED300TB2047         Decal         1          139-619L1           55         ED300TB2054         Decal         1          139-619L1           56         ED300TB2054         Decal         1          139-619L1           57         ED300TB203         Pecal         1          139-619L1           57         ED300TB2047         Pecal         1          139-619L1           57         ED300TB2054         Pecal         1          139-619L1           57         ED300TB2054         Pecal         1          139-619L1      <	46	ED300DS87		Decal	1		139-619L1
49         ED300DS90         Decal         1          139-619L1           50         ED300G7         Decal         1          139-619L1           51         ED300J283         Decal         1          139-619L1           52         ED300J284         Decal         1          139-619L1           53         ED300S113         Decal         1          139-619L1           54         ED300S144         Decal         1          139-619L1           55         ED300TB2047         Decal         1          139-619L1           56         ED300TB2054         Decal         1          139-619L1           57         ED300TB263         Decal         1          139-619L1           58         M85049/95-12A-A         Flange connector         2          139-619L1           59         MS21043L3         MS21043-3         Nut         5          139-619L1           60         MS35206-241         Screw         2          139-619L1           61         MS35206-241         Washer         8	47	ED300DS88		Decal	1		139-619L1
50         ED300G7         Decal         1          139-619L1           51         ED300J283         Decal         1          139-619L1           52         ED300J284         Decal         1          139-619L1           53         ED300S113         Decal         1          139-619L1           54         ED300T82047         Decal         1          139-619L1           55         ED300TB2054         Decal         1          139-619L1           56         ED300TB2054         Decal         1          139-619L1           57         ED300TB2054         Decal         1          139-619L1           57         ED300TB2054         Plange connector         2          139-619L1           57         ED300TB2054         Flange connector         2          139-619L1           58         M85049/95-12A-A         Flange connector         2          139-619L1           59         MS2104313         MS21043-3         Nut         5          139-619L1           60         MS35206-241         Screw         3 <td>48</td> <td>ED300DS89</td> <td></td> <td>Decal</td> <td>1</td> <td></td> <td>139-619L1</td>	48	ED300DS89		Decal	1		139-619L1
51         ED300J283         Decal         1          139-619L1           52         ED300J284         Decal         1          139-619L1           53         ED300S113         Decal         1          139-619L1           54         ED300TB2047         Decal         1          139-619L1           55         ED300TB2047         Decal         1          139-619L1           56         ED300TB2054         Decal         1          139-619L1           57         ED300TB263         Decal         1          139-619L1           58         M85049/95-12A-A         Flange connector         2          139-619L1           59         MS21043L3         MS21043-3         Nut         5          139-619L1           60         MS35206-241         Screw         2          139-619L1           61         MS35489-20         Grommet         1          139-619L1           62         NAS1149D0332J         Washer         8          139-619L1           63         NAS1149DN816J         Washer         2 <t< td=""><td>49</td><td>ED300DS90</td><td></td><td>Decal</td><td>1</td><td></td><td>139-619L1</td></t<>	49	ED300DS90		Decal	1		139-619L1
52         ED300J284         Decal         1          139-619L1           53         ED300S113         Decal         1          139-619L1           54         ED300S114         Decal         1          139-619L1           55         ED300TB2047         Decal         1          139-619L1           56         ED300TB2054         Decal         1          139-619L1           57         ED300TB263         Decal         1          139-619L1           58         M85049/95-12A-A         Flange connector         2          139-619L1           59         MS21043L3         MS21043-3         Nut         5          139-619L1           60         MS35206-241         Screw         2          139-619L1           61         MS35489-20         Grommet         1          139-619L1           62         NAS1149D0332J         Washer         8          139-619L1           63         NAS1149D0416J         Washer         8          139-619L1           64         NAS1190E3P6AK         Screw         3	50	ED300G7		Decal	1		139-619L1
53         ED300S113         Decal         1          139-619L1           54         ED300S114         Decal         1          139-619L1           55         ED300TB2047         Decal         1          139-619L1           56         ED300TB2054         Decal         1          139-619L1           57         ED300TB263         Decal         1          139-619L1           58         M85049/95-12A-A         Flange connector         2          139-619L1           59         MS21043L3         MS21043-3         Nut         5          139-619L1           60         MS35206-241         Screw         2          139-619L1           61         MS35489-20         Grommet         1          139-619L1           62         NAS1149D0332J         Washer         8          139-619L1           63         NAS1149D0416J         Washer         8          139-619L1           64         NAS1190E3P6AK         Screw         3          139-619L1           65         NAS1190E3P6AK         Screw         8	51	ED300J283		Decal	1		139-619L1
54         ED300S114         Decal         1          139-619L1           55         ED300TB2047         Decal         1          139-619L1           56         ED300TB2054         Decal         1          139-619L1           57         ED300TB263         Decal         1          139-619L1           58         M85049/95-12A-A         Flange connector         2          139-619L1           59         MS21043L3         MS21043-3         Nut         5          139-619L1           60         MS35206-241         Screw         2          139-619L1           61         MS35489-20         Grommet         1          139-619L1           62         NAS1149D0332J         Washer         8          139-619L1           63         NAS1149D0416J         Washer         8          139-619L1           64         NAS1190E3P6AK         Screw         3          139-619L1           65         NAS1190E3P8AK         Screw         3          139-619L1           66         NAS1802-04-7         Screw         8	52	ED300J284		Decal	1		139-619L1
55         ED300TB2047         Decal         1          139-619L1           56         ED300TB2054         Decal         1          139-619L1           57         ED300TB263         Decal         1          139-619L1           58         M85049/95-12A-A         Flange connector         2          139-619L1           59         MS21043L3         MS21043-3         Nut         5          139-619L1           60         MS35206-241         Screw         2          139-619L1           61         MS35489-20         Grommet         1          139-619L1           62         NAS1149D0332J         Washer         8          139-619L1           63         NAS1149DN816J         Washer         8          139-619L1           64         NAS1190E3P6AK         Screw         3          139-619L1           65         NAS1190E3P8AK         Screw         3          139-619L1           66         NAS1802-04-7         Screw         8          139-619L1           68         NAS1802-3-18         Screw         2 <td>53</td> <td>ED300S113</td> <td></td> <td>Decal</td> <td>1</td> <td></td> <td>139-619L1</td>	53	ED300S113		Decal	1		139-619L1
56         ED300TB2054         Decal         1          139-619L1           57         ED300TB263         Decal         1          139-619L1           58         M85049/95-12A-A         Flange connector         2          139-619L1           59         MS21043L3         MS21043-3         Nut         5          139-619L1           60         MS35206-241         Screw         2          139-619L1           61         MS35489-20         Grommet         1          139-619L1           62         NAS1149D0332J         Washer         8          139-619L1           63         NAS1149D0416J         Washer         8          139-619L1           64         NAS1149DN816J         Washer         2          139-619L1           65         NAS1190E3P6AK         Screw         3          139-619L1           66         NAS1190E3P8AK         Screw         3          139-619L1           67         NAS1802-04-7         Screw         2          139-619L1           68         NAS1802-3-18         Screw         2<	54	ED300S114		Decal	1		139-619L1
57         ED300TB263         Decal         1          139-619L1           58         M85049/95-12A-A         Flange connector         2          139-619L1           59         MS21043L3         MS21043-3         Nut         5          139-619L1           60         MS35206-241         Screw         2          139-619L1           61         MS35489-20         Grommet         1          139-619L1           62         NAS1149D0332J         Washer         8          139-619L1           63         NAS1149D0416J         Washer         8          139-619L1           64         NAS1149DN816J         Washer         2          139-619L1           65         NAS1190E3P6AK         Screw         3          139-619L1           66         NAS1190E3P8AK         Screw         3          139-619L1           67         NAS1802-04-7         Screw         8          139-619L1           68         NAS1802-3-18         Screw         2          139-619L1           69         NAS620C6L         Washer         2 </td <td>55</td> <td>ED300TB2047</td> <td></td> <td>Decal</td> <td>1</td> <td></td> <td>139-619L1</td>	55	ED300TB2047		Decal	1		139-619L1
58         M85049/95-12A-A         Flange connector         2          139-619L1           59         MS21043L3         MS21043-3         Nut         5          139-619L1           60         MS35206-241         Screw         2          139-619L1           61         MS35489-20         Grommet         1          139-619L1           62         NAS1149D0332J         Washer         8          139-619L1           63         NAS1149D0416J         Washer         8          139-619L1           64         NAS1149DN816J         Washer         2          139-619L1           65         NAS1190E3P6AK         Screw         3          139-619L1           66         NAS1190E3P8AK         Screw         3          139-619L1           67         NAS1802-04-7         Screw         8          139-619L1           68         NAS1802-3-18         Screw         2          139-619L1           69         NAS620C6L         Washer         2          139-619L1           70         A523A-A01         Electrical contact	56	ED300TB2054		Decal	1		139-619L1
59         MS21043L3         MS21043-3         Nut         5          139-619L1           60         MS35206-241         Screw         2          139-619L1           61         MS35489-20         Grommet         1          139-619L1           62         NAS1149D0332J         Washer         8          139-619L1           63         NAS1149D0416J         Washer         8          139-619L1           64         NAS1190E3P6AK         Screw         3          139-619L1           65         NAS1190E3P8AK         Screw         3          139-619L1           66         NAS11802-04-7         Screw         8          139-619L1           67         NAS1802-3-18         Screw         2          139-619L1           68         NAS1802-3-18         Screw         2          139-619L1           69         NAS620C6L         Washer         2          139-619L1           70         A523A-A01         Electrical contact         20          139-619L1           71         3P5330A19852         Window seal profile	57	ED300TB263		Decal	1		139-619L1
60         MS35206-241         Screw         2          139-619L1           61         MS35489-20         Grommet         1          139-619L1           62         NAS1149D0332J         Washer         8          139-619L1           63         NAS1149D0416J         Washer         8          139-619L1           64         NAS1149DN816J         Washer         2          139-619L1           65         NAS1190E3P6AK         Screw         3          139-619L1           66         NAS1190E3P8AK         Screw         3          139-619L1           67         NAS1802-04-7         Screw         8          139-619L1           68         NAS1802-3-18         Screw         2          139-619L1           69         NAS620C6L         Washer         2          139-619L1           70         A523A-A01         Electrical contact         20          139-619L1           71         3P5330A19852         Window seal profile         2          139-619L1           73         A417AG002TB         Seal profile         2.5 m<	58	M85049/95-12A-A		Flange connector	2		139-619L1
61       MS35489-20       Grommet       1        139-619L1         62       NAS1149D0332J       Washer       8        139-619L1         63       NAS1149D0416J       Washer       8        139-619L1         64       NAS1149DN816J       Washer       2        139-619L1         65       NAS1190E3P6AK       Screw       3        139-619L1         66       NAS1190E3P8AK       Screw       3        139-619L1         67       NAS1802-04-7       Screw       8        139-619L1         68       NAS1802-3-18       Screw       2        139-619L1         69       NAS620C6L       Washer       2        139-619L1         70       A523A-A01       Electrical contact       20        139-619L1         71       3P5330A18951       Window seal profile       2        139-619L1         72       3P5330A19852       Window seal profile       2        139-619L1         73       A417AG002TB       Seal profile       2.5 m        139-619L1	59	MS21043L3	MS21043-3	Nut	5		139-619L1
62       NAS1149D0332J       Washer       8        139-619L1         63       NAS1149D0416J       Washer       8        139-619L1         64       NAS1149DN816J       Washer       2        139-619L1         65       NAS1190E3P6AK       Screw       3        139-619L1         66       NAS1190E3P8AK       Screw       3        139-619L1         67       NAS1802-04-7       Screw       8        139-619L1         68       NAS1802-3-18       Screw       2        139-619L1         69       NAS620C6L       Washer       2        139-619L1         70       A523A-A01       Electrical contact       20        139-619L1         71       3P5330A18951       Window panel       2        139-619L1         72       3P5330A19852       Window seal profile       2        139-619L1         73       A417AG002TB       Seal profile       2.5 m        139-619L1	60	MS35206-241		Screw	2		139-619L1
63       NAS1149D0416J       Washer       8        139-619L1         64       NAS1149DN816J       Washer       2        139-619L1         65       NAS1190E3P6AK       Screw       3        139-619L1         66       NAS1190E3P8AK       Screw       3        139-619L1         67       NAS1802-04-7       Screw       8        139-619L1         68       NAS1802-3-18       Screw       2        139-619L1         69       NAS620C6L       Washer       2        139-619L1         70       A523A-A01       Electrical contact       20       .       139-619L1         71       3P5330A18951       Window panel       2       .       139-619L1         72       3P5330A19852       Window seal profile       2       .       (3)       -         73       A417AG002TB       Seal profile       2.5 m       .       139-619L1	61	MS35489-20		Grommet	1		139-619L1
64       NAS1149DN816J       Washer       2        139-619L1         65       NAS1190E3P6AK       Screw       3        139-619L1         66       NAS1190E3P8AK       Screw       3        139-619L1         67       NAS1802-04-7       Screw       8        139-619L1         68       NAS1802-3-18       Screw       2        139-619L1         69       NAS620C6L       Washer       2        139-619L1         70       A523A-A01       Electrical contact       20       .       139-619L1         71       3P5330A18951       Window panel       2       .       139-619L1         72       3P5330A19852       Window seal profile       2       .       (3)       -         73       A417AG002TB       Seal profile       2.5 m       .       139-619L1	62	NAS1149D0332J		Washer	8		139-619L1
65       NAS1190E3P6AK       Screw       3        139-619L1         66       NAS1190E3P8AK       Screw       3        139-619L1         67       NAS1802-04-7       Screw       8        139-619L1         68       NAS1802-3-18       Screw       2        139-619L1         69       NAS620C6L       Washer       2        139-619L1         70       A523A-A01       Electrical contact       20        139-619L1         71       3P5330A18951       Window panel       2        139-619L1         72       3P5330A19852       Window seal profile       2        (3)       -         73       A417AG002TB       Seal profile       2.5 m        139-619L1	63	NAS1149D0416J		Washer	8		139-619L1
66       NAS1190E3P8AK       Screw       3        139-619L1         67       NAS1802-04-7       Screw       8        139-619L1         68       NAS1802-3-18       Screw       2        139-619L1         69       NAS620C6L       Washer       2        139-619L1         70       A523A-A01       Electrical contact       20       .       139-619L1         71       3P5330A18951       Window panel       2       .       139-619L1         72       3P5330A19852       Window seal profile       2       .       (3)       -         73       A417AG002TB       Seal profile       2.5 m       .       139-619L1	64	NAS1149DN816J		Washer	2		139-619L1
67       NAS1802-04-7       Screw       8        139-619L1         68       NAS1802-3-18       Screw       2        139-619L1         69       NAS620C6L       Washer       2        139-619L1         70       A523A-A01       Electrical contact       20       .       139-619L1         71       3P5330A18951       Window panel       2       .       139-619L1         72       3P5330A19852       Window seal profile       2       .       (3)       -         73       A417AG002TB       Seal profile       2.5 m       .       139-619L1	65	NAS1190E3P6AK		Screw	3		139-619L1
68       NAS1802-3-18       Screw       2        139-619L1         69       NAS620C6L       Washer       2        139-619L1         70       A523A-A01       Electrical contact       20       .       139-619L1         71       3P5330A18951       Window panel       2       .       139-619L1         72       3P5330A19852       Window seal profile       2       .       (3)       -         73       A417AG002TB       Seal profile       2.5 m       .       139-619L1	66	NAS1190E3P8AK		Screw	3		139-619L1
69       NAS620C6L       Washer       2        139-619L1         70       A523A-A01       Electrical contact       20        139-619L1         71       3P5330A18951       Window panel       2        139-619L1         72       3P5330A19852       Window seal profile       2        (3)       -         73       A417AG002TB       Seal profile       2.5 m        139-619L1	67	NAS1802-04-7		Screw	8		139-619L1
70       A523A-A01       Electrical contact       20       .       139-619L1         71       3P5330A18951       Window panel       2       .       139-619L1         72       3P5330A19852       Window seal profile       2       .       (3)       -         73       A417AG002TB       Seal profile       2.5 m       .       139-619L1	68	NAS1802-3-18		Screw	2		139-619L1
71     3P5330A18951     Window panel     2     .     139-619L1       72     3P5330A19852     Window seal profile     2     .     (3)     -       73     A417AG002TB     Seal profile     2.5 m     .     139-619L1	69	NAS620C6L		Washer	2		139-619L1
71     3P5330A18951     Window panel     2     .     139-619L1       72     3P5330A19852     Window seal profile     2     .     (3)     -       73     A417AG002TB     Seal profile     2.5 m     .     139-619L1	70	A523A-A01		Electrical contact	20		139-619L1
72       3P5330A19852       Window seal profile       2       (3)       -         73       A417AG002TB       Seal profile       2.5 m       139-619L1	71	3P5330A18951			2		139-619L1
73 A417AG002TB Seal profile 2.5 m 139-619L1	72	3P5330A19852			2	. (3	-
· · · · · · · · · · · · · · · · · · ·	73	A417AG002TB			2.5 m		
		3P5330A19952		•			

# PART II

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
75	3G2580P20011		WINDOW LINERS VAR FOR BUBBLE	REF			-
76	3G2580A20731		Angular Assy LH	1		(1)	-
77	3G2580A20831		Angular Assy RH	1		(1)	-
78	3G2580P04232		Window Liner Reworked Lower LH For ICS PN	1		(1)	-
79	3G2580P06731		Window liner RH Lower Modification For AV900	1		(1)	-
80	MS27980-18B	MS27980-18N	Fastener	2			139-619L2
81	3G5310P12111		SIDE WALL WINDOW RETRO MODIFICATION	REF			-
82	3P5330A18951		Window Panel	2			139-619L2
83	999-2701-45-509		Decal	2			139-619L2
84	A180A005E2		Decal	2			139-619L2
85	A180A009E2		Decal	2			139-619L2
86	A181A001E1		Decal	8			139-619L2
87	A417AF001WB		Extrusion Rubber Filler	10 m			139-619L2
88	A417AG002WB		Extrusion Rubber Window	5 m			139-619L2

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#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
			Seal				
89	A487A005A		Strap Assy	2			139-619L2
90	AN525-10R8		Screw	12			139-619L2
91	NAS1832-3-4M		Insert	4			139-619L2
92	3G3350A04311		HEEL LIGHTS CABIN WINDOWS VARIANT	REF			-
93	001755-105-02	A593A-A05	Terminal board	1			139-619L2
94	3G3350A00611		HEELS light assy	2			139-619L2
95	3G3350A01711		Power supply assy	1			139-619L2
96	3G3350A01811		Battery assy	1			139-619L2
97	3G5318A18911		HEELS HIGH VISIBILITY STRUCT PROV	REF			-
98	3G3350V00351		Mounting bracket	2			139-619L2
99	A414A02V209E1		Connector support	2			139-619L2
100	MS27039-1-07		Screw	4			139-619L2
101	MS35207-260		Screw	8			139-619L2
102	NAS1149D0316J		Washer	8			139-619L2
103	NAS1832-3-5		Insert	4			139-619L2
104	NAS1836C08-13M		Insert	2			139-619L2
105	NAS1836C3-13M		Insert	8			139-619L2
106	3G9B01A29802	3G9B01A29801A10R	HEEL lights cabin windows C/A (B1A298)	1		(2)	-
107	3G9B01B29802	- 4G3350A00112A1R	HEEL lights cabin windows C/A (B1B298)	1		(2)	-
108	3G9B01B32602	4G3330A00112A1R	HEEL lights cabin windows C/A (B1B326)	1		(2)	-
109	A366A3E12C		Stud	5			139-619L2
110	A388A3E12C		Standoff	3			139-619L2
111	A522A02A		Mounting rail	1			139-619L2
112	AW001CB04H		Clamp	6			139-619L2
113	AW001CB05H		Clamp	1			139-619L2
114	AW001CB06H		Clamp	6			139-619L2
115	AW001CL000A-X3		Electrical support	16			139-619L2
116	AW001CL001-N6		Electrical support	3			139-619L2
117	AW001CL005C01-X1		Electrical support	2			139-619L2
118	AW001CL009-CM		Electrical support	4			139-619L2
119	AW001CL509-N6		Electrical support	2			139-619L2
120	ED300BT7		Decal	1			139-619L2
121	ED300DS66		Decal	1			139-619L2
122	ED300DS67		Decal	1			139-619L2
123	ED300DS68		Decal	1			139-619L2
124	ED300DS69		Decal	1			139-619L2
125	ED300DS70		Decal	1			139-619L2
126	ED300DS86		Decal	1			139-619L2
127	ED300DS87		Decal	1			139-619L2
128	ED300DS88		Decal	1			139-619L2
129	ED300DS89		Decal	1			139-619L2
130	ED300DS90		Decal	1			139-619L2
131	ED300G7		Decal	1			139-619L2
132	ED300J283		Decal	1			139-619L2
133	ED300J284		Decal	1			139-619L2
134	ED300S113		Decal	1			139-619L2
135	ED300S114		Decal	1			139-619L2
136	ED300TB2047		Decal	1			139-619L2
137	ED300TB2054		Decal	1			139-619L2
			n -				100 0101 0
138	ED300TB263		Decal	1	••		139-619L2



#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL N	OTE	LOG P/N
140	MS21043L3	MS21043-3	Nut	5			139-619L2
141	MS35206-241		Screw	2			139-619L2
142	MS35489-20		Grommet	1			139-619L2
143	NAS1149D0332J		Washer	8			139-619L2
144	NAS1149D0416J		Washer	8			139-619L2
145	NAS1149DN816J		Washer	2			139-619L2
146	NAS1190E3P6AK		Screw	3			139-619L2
147	NAS1190E3P8AK		Screw	3			139-619L2
148	NAS1802-04-7		Screw	8			139-619L2
149	NAS1802-3-18		Screw	2			139-619L2
150	NAS620C6L		Washer	2			139-619L2
151	3G2580P00912		FIBER LINERS RETROMOD FOR HEELS	REF			-
152	3G2580A46131		Rework Window Liner Bonded Assy LH	1	(	(1)	-
153	3G2580P04132		Window Liner Upper RH Modification Hoist Breeze	1	(	(1)	-

## 2) CONSUMABLES

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

#	Spec./LHD code number	DESCRIPTION	Q.TY	NOTE	PART
154	Commercial	City Grey S103 DELTRON BC Col. Gray Steel N° 41 Met.(FIAT 647) (M03) " grey steel m 103	AR	(4)	I
155	199-05-002 TY II, CL 2, Code No. 900004603	Adhesive EA934NA (C057)	AR	(4)	1, 11
156	A236A03AB	Nonmetallic channel	AR	-	I
157	A582A08 or EN6049-006-08-5	Tubing braided	AR	(4)	1
158	Code No. 99999999000001113	TAPE 3M 363 (C260)	AR	(4)	II

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

## 3) LOGISTIC MATRIX

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

LOGISTIC P/N	Q.TY (PER HELO)	NOTE	PART
139-619L1	1	-	
3G2580P02233	1	(1)	1
3G2580P02331	1	(1)	
139-619L2	1	-	
3G2580A20731	1	(1)	
3G2580A20831	1	(1)	
3G2580P04232	1	(1)	<u>II</u>
3G2580P06731	1	(1)	
3G2580A46131	1	(1)	
3G2580P04132	1	(1)	

#### **NOTES**

(1) This P/N depends upon helicopter internal painting and may be supplied as a

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production P/N ending with suffix –CS01 or any combination of letters or numbers.

- (2) All C/As B1BA298, B1B298 and B1B326 dash -02 are identical to dash -01.
- (3) Window seal profile P/N 3P5330A19852 can be obtained from raw material P/N A417AG002TB.
- (4) 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 reuse.
- b) Exercise extreme care during drilling operations to prevent instruments, cables and hoses damage.
- c) 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.
- d) Shape the cables in order to prevent interference with the structure and the other existing installations, using where necessary suitable lacing cords.
- e) During the installation of bonding braids or components requiring grounding, clean the surface structure in order to obtain a good ground contact.
- f) Protect properly all those equipment not removed from area affected by the modification during installation procedure.
- g) Let the adhesive cure at room temperature for at least 24 hours, unless otherwise specified.
- h) All lengths are in mm.

## <u>PART I</u>

- 1. In accordance with AMP DM 39-A-00-20-00-00A-120A-A prepare the helicopter on ground for a safe maintenance. Disconnect the battery, all electrical power sources and/or the external power supply.
- 2. In accordance with AMP DM 39-A-06-41-00-00A-010A-A and with reference to Figures 1 thru 12 and Figure 22 wiring diagram, gain access to the area affected by the installation and perform Babcock variant P/N 3G2500P01511 as described in the following procedure:
  - 2.1 With reference to Figure 1 Section A-A, remove the bubble window liner assy upr LH P/N 3G2580L03533 on LH side.
  - 2.2 With reference to Figure 1 Section A-A, remove the bubble window liner assy upr RH Goodrich P/N 3G2580L03634 on RH side.

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- 2.3 In accordance with the applicable steps of AMP DM 39-A-56-22-01-00A-920A-K and with reference to Figure 2 Section A-A, Section B-B and View C-C, remove the bubble window P/N 3G5620L00251, the profile P/N 3G5620A00551, n°23 screws P/N AN525-10R9, n°6 special washer P/N 3G5620A01351 and n°4 screws P/N AN525-10R11 on the left side of the cabin.
- 2.4 In accordance with the applicable steps of AMP DM 39-A-56-22-02-00A-920A-K repeat step 2.3 for the right side of the cabin.
- 2.5 With reference to Figure 4 thru 12 and Figure 22 wiring diagram, perform HEEL lights cabin windows variant P/N 3G3350A04311 as described in the following procedure:
  - 2.5.1 With reference to Figures 4 and 5, perform HEELS high visibility struct prov P/N 3G5318A18911 as described in the following procedure:
    - 2.5.1.1 With reference to Figure 4 View F and Section G-G, temporarily locate the mounting bracket P/N 3G3350V00351 on the forward lower panel assy P/N 3P5331A02132 and countermark n°4 holes in accordance with the dimensioning shown.
    - 2.5.1.2 With reference to Figure 4 View F and Section G-G, drill n°4 holes Ø11.48÷11.61 thru the forward lower panel assy P/N 3P5331A02132.
    - 2.5.1.3 With reference to Figure 4 Section G-G, install n°4 inserts P/N NAS1836C3-13M on the forward lower panel assy P/N 3P5331A02132 by means adhesive EA934NA (C057).

## Prepare and protect show surface for electrical bonding.

- 2.5.1.4 With reference to Figure 4 Section G-G, install the mounting bracket P/N 3G3350V00351 on the forward lower panel assy P/N 3P5331A02132 by means of n°4 screws P/N MS35207-260 and n°4 washers P/N NAS1149D0316J.
- 2.5.1.5 With reference to Figure 4 View F and Section H-H, drill n°2 holes Ø11.48÷11.61 thru the forward lower panel assy P/N 3P5331A02132 in accordance with the dimensioning shown.
- 2.5.1.6 With reference to Figure 4 Section H-H, install n°2 inserts P/N NAS1836C08-13M on the forward lower panel assy P/N 3P5331A02132 by means adhesive EA934NA (C057).
- 2.5.1.7 With reference to Figure 5 Detail D and Section E-E, temporarily locate the connector support P/N A414A02V209E1 on the side



- wall panel P/N 3P5335A00233 and countermark n°2 holes in accordance with the dimensioning shown.
- 2.5.1.8 With reference to Figure 5 Detail D and Section E-E, drill n°2 holes Ø11.48÷11.61 on the side wall panel P/N 3P5335A00233.
- 2.5.1.9 With reference to Figure 5 Detail D and Section E-E, install n°2 inserts P/N NAS1832-3-5 on the side wall panel P/N 3P5335A00233 by means adhesive EA934NA (C057).
- 2.5.1.10 With reference to Figure 5 Detail D and Section E-E, install the connector support P/N A414A02V209E1 on the side wall panel P/N 3P5335A00233 by means of n°2 screws P/N MS27039-1-07.
- 2.5.1.11 With reference to Figure 5 Detail A and Section C-C repeat steps 2.5.1.1 thru 2.5.1.4 to install the mountain bracket P/N 3G3350V00351 on the side wall panel P/N 3P5337A00233.
- 2.5.1.12 With reference to Figure 5 Detail A and Section B-B repeat steps 2.5.1.7 thru 2.5.1.10 to install the connector support P/N A414A02V209E1 on the side wall panel P/N 3P5337A00233.

Perform steps 2.5.2 and 2.5.3 only if the helicopter is NOT equipped with kit AVCS. Otherwise skip at step 2.5.4.

#### **NOTE**

Perform steps 2.5.2 only if the helicopter is NOT equipped with kit ICS P/N 3G2350A01014. Otherwise skip at step 2.5.3.

- 2.5.2 With reference to Figure 7 View A, install n°3 standoffs P/N A388A3E12C on the structure (STA 3899.0) in the locations n°11 thru n°13.
- 2.5.3 With reference to Figure 7 View A, install n°3 studs P/N A366A3E12C on the structure (STA 3899.0) in the locations n°8 thru n°10.

## **NOTE**

Perform the following step 2.5.4 only if the helicopter is equipped with kit AVCS. Otherwise skip at step 2.5.5.

2.5.4 With reference to Figure 12 View A1, remove and re-install n°8 electrical supports P/N AW001CL001-N6 on the structure (STA3899.0) in the locations n°1 thru n°8.

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- 2.5.5 With reference to Figure 8 View B-B, install the stud P/N A366A3E12C on the structure in the location n°2.
- 2.5.6 With reference to Figure 8 View B-B, install the electrical support P/N AW001CL005C01-X1 on the structure in the location n°1.
- 2.5.7 With reference to Figure 8 View B-B, install n°2 nonmetallic channels P/N A236A03AB on the hole edges shown on figure.
- 2.5.8 With reference to Figure 8 View D-D, install the electrical support P/N AW001CL509-N6 on the structure in the location n°7 by means of the washer P/N NAS620C6L.
- 2.5.9 With reference to Figure 8 View C-C, install the electrical support P/N AW001CL005C01-X1 on the structure in the location n°4.
- 2.5.10 With reference to Figure 8 View C-C, install the stud P/N A366A3E12C on the structure in the location n°3.
- 2.5.11 With reference to Figure 8 View C-C, install the electrical support P/N AW001CL001-N6 on the structure in the location n°5.
- 2.5.12 With reference to Figure 8 View C-C, install n°2 nonmetallic channels P/N A236A03AB on the hole edges shown on figure.
- 2.5.13 With reference to Figure 8 View D-D, install the electrical support P/N AW001CL509-N6 on the structure in the location n°6 by means of the washer P/N NAS620C6L.
- 2.5.14 With reference to Figure 9 View looking down center floor, install n°2 electrical supports P/N AW001CL001-N6 on the structure in the locations n°1 and n°2.
- 2.5.15 With reference to Figure 11 View looking LH pax door from internal side, install n°8 electrical supports P/N AW001CL000A-X3 on the internal liner in the locations n°1 thru n°8.
- 2.5.16 With reference to Figure 11 Detail F, install n°2 electrical supports P/N AW001CL009-CM on the internal liner in the locations n°9 and n°20.
- 2.5.17 With reference to Figure 10 View looking RH pax door from internal side, install n°8 electrical supports P/N AW001CL000A-X3 on the internal liner in the locations n°10 thru n°17.
- 2.5.18 With reference to Figure 10 Detail G, install n°2 electrical supports P/N AW001CL009-CM on the internal liner in the locations n°18 and n°19.

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, but the tubing protection is not substitute for good routing practice.

- 2.5.19 With reference to Figure 6 thru 12, lay down the following cable assemblies on the existing routes unless otherwise indicated on the figures:
  - 3G9B01A29802 HEEL lights cabin windows C/A (B1A298)
  - 3G9B01B29802 HEEL lights cabin windows C/A (B1B298)
  - 3G9B01B32602 HEEL lights cabin windows C/A (B1B326)
- 2.5.20 With reference to Figures 6 thru 12, secure the cable assemblies laid down at the previous step by means of existing hardware and lacing cords.
- 2.5.21 With reference to Figure 9 View looking down center floor, install the mounting rail P/N A522A02A on the structure by means of n°2 screws P/N MS35206-241 and n°2 washers P/N NAS1149DN816J.
- 2.5.22 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 9 View looking down center floor, install the decal P/N ED300TB263 next to the mounting rail P/N A522A02A.
- 2.5.23 With reference to Figure 9 View looking down center floor, install the terminal board P/N 001755-105-02 (TB263) on the mounting rail P/N A522A02A.
- 2.5.24 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 9 View looking down center floor, install the decal P/N ED300TB2047 next to the junction in-line TB2047.
- 2.5.25 With reference to Figure 9 View looking down center floor, install the power supply assy P/N 3G3350A01711 in its position on the structure.
- 2.5.26 With reference to Figure 9 View looking down center floor and Figure 22 wiring diagram, perform electrical connection of the cable on part of the power supply assy P/N 3G3350A01711 to the junction in-line TB2047, the terminal board TB263 and n°2 splices SPG7-1 and SPG7-2.

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- 2.5.27 With reference to Figure 9 View looking down center floor, remove existing screws and install n°2 clamps P/N AW001CB04H on C/A B1B298 and C/A B1B326 by means of n°2 screws P/N NAS1802-3-18.
- 2.5.28 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 9 View looking down center floor, install the decal P/N ED300G7 next to the power supply assy P/N 3G3350A01711.

Perform the following step 2.5.29 only if the helicopter is NOT equipped with kit ICS P/N 3G2350A01014. Otherwise skip at step 2.5.30.

2.5.29 With reference to Figure 7 View A, install n°3 clamps P/N AW001CB04H on C/A B1A298 by means of n°3 screws P/N NAS1190E3P6AK and n°3 washers P/N NAS1149D0332J.

## **NOTE**

Perform the following step 2.5.30 only if the helicopter is equipped with kit ICS P/N 3G2350A01014. Otherwise skip at step 2.5.31.

- 2.5.30 With reference to Figure 7 View E-E, remove existing screws and install n°3 clamps P/N AW001CB06H on C/A B1A298 and C/A B2A204 by means of n°3 screws P/N NAS1190E3P8AK.
- 2.5.31 With reference to Figure 7 View A, install n°3 clamps P/N AW001CB06H on C/A B1B298 and C/A B1B326 by means of n°3 nuts P/N MS21043L3 and n°3 washers P/N NAS1149D0332J.
- 2.5.32 With reference to Figure 8 View B-B, install the flange connector P/N M85049/95-12A-A on the support by means of n°4 screws P/N NAS1802-04-7 and n°4 washers P/N NAS1149D0416J.
- 2.5.33 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 8 View B-B, install the decal P/N ED300J283 next to the connector J283.
- 2.5.34 With reference to Figure 8 View B-B, install the clamp P/N AW001CB04H on the C/A B1A298 by means of the nut P/N MS21043L3 and the washer P/N NAS1149D0332J.
- 2.5.35 With reference to Figure 8 View C-C, repeat step 2.5.32.



- 2.5.36 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 8 View C-C, install the decal P/N ED300J284 next to the connector J284.
- 2.5.37 With reference to Figure 8 View C-C, install the clamp P/N AW001CB05H on the C/A B1B298 and C/A B1B326 by means of the nut P/N MS21043L3 and the washer P/N NAS1149D0332J.
- 2.5.38 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 8 View C-C, install the decal P/N ED300TB2054 next to the junction in-line TB2054.
- 2.5.39 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 8 View C-C, install the battery assy P/N 3G3350A01811 on the mounting bracket previously installed and install the relevant decal P/N ED300BT7.
- 2.5.40 With reference to Figure 8 View C-C and Figure 22 wiring diagram, perform electrical connection of the cable on part of the battery assy P/N 3G3350A01811 to the junction in-line TB2054.
- 2.5.41 In accordance with AMP DM 39-C-33-52-12-00A-921A-K and with reference to Figure 10 View looking RH pax door from internal side and Figure 22 wiring diagram, install the HEELS light assy P/N 3G3350A00611 on the RH pax door. Perform electrical connection to connector P284.
- 2.5.42 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 10 View looking RH pax door from internal side, install the decal P/N ED300DS86, P/N ED300DS87, P/N ED300DS88, P/N ED300DS89 and P/N ED300DS90 next to the relevant light.
- 2.5.43 In accordance with AMP DM 39-C-33-52-11-00A-921A-K and with reference to Figure 11 view looking LH pax door from internal side and Figure 22 wiring diagram, install the HEELS light assy P/N 3G3350A00611 on the LH pax door. Perform electrical connection to connector P283.
- 2.5.44 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 11 view looking LH pax door from internal side, install the decal P/N ED300DS66, P/N ED300DS67, P/N ED300DS68, P/N ED300DS69 and P/N ED300DS70 next to the relevant light.
- 2.5.45 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 10 Detail G and Figure 11 Detail F, install the decal

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- P/N ED300S114 next to the water sensor S114 and the decal ED300S113 next to the water sensor S113.
- 2.5.46 With reference to Figure 22 wiring diagram, perform electrical connection of C/A B1A298 to the terminal board TB263. Use n°10 electrical contacts P/N A523A-A01 (TB263 side).
- 2.5.47 With reference to Figure 8 View B-B and Figure 11 View looking LH pax door from internal side, connect the connector J283 to the connector P283.
- 2.5.48 With reference to Figure 22 wiring diagram, perform electrical connection of C/A B1B298 to the terminal board TB263 and to the splices SPG7-1 and SPG7-2. Use n°10 electrical contacts P/N A523A-A01 (TB263 side).
- 2.5.49 With reference to Figure 8 View C-C and Figure 10 View looking RH pax door from internal side, connect the connector J284 to the connector P284.
- 2.5.50 Perform a pin-to-pin continuity check of all the electrical connections made.
- 2.6 In accordance with the applicable steps of AMP DM 39-A-56-21-01-00A-920A-A and with reference to Figure 2 View looking inboard left side, install the window panel P/N 3P5330A18951, the window seal profile P/N 3P5330A19852 and n°2 window seal wedges P/N 3P5330A19952 on the left side of the cabin.
- 2.7 In accordance with the applicable steps of AMP DM 39-A-56-21-02-00A-920A-A and with reference to Figure 2 View looking inboard left side, repeat step 2.6 for the right side of the cabin.
- 2.8 With reference to Figure 1, perform the liner retromod P/N 3G2580P22211 as described in the following procedure:
  - 2.8.1 With reference to Figure 1 Section A-A and Section B-B, install the window liner upr LH mod ICS with HEELS P/N 3G2580P02331 by means of the strap assembly P/N A487A003A and the fastener P/N MS27980-18B.
  - 2.8.2 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 1 Section A-A, install the decal P/N A180A009E2, the decal P/N A180A005E2 and the decal P/N 999-2701-45-509 on the window liner upr LH mod ICS with HEELS P/N 3G2580P02331.
  - 2.8.3 With reference to Figure 1 Section A-A and Section B-B repeat steps 2.8.1 and 2.8.2 for the window liner upr RH mod hoist Breeze/HEELS P/N 3G2580P02233.



- 2.8.4 With reference to Figure 3 View looking inboard left side and Bottom view, perform the exterior paint scheme retromod P/N 3G1110P00111 painting with commercial paint as shown on Figure and table.
- 3. In accordance with the applicable step of AMP DM 39-C-33-52-00-00A-340A-K perform the function test of the emergency exit lighting system.
- 4. In accordance with weight and balance changes, update the Chart A (see Rotorcraft Flight Manual, Part II, section 6).
- 5. Return the helicopter to flight configuration and record for compliance with Part I of this Service Bulletin on the helicopter logbook.
- 6. Send the attached compliance form to the following mail box:

engineering.support.lhd@leonardo.com

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

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## **PART II**

- 1. In accordance with AMP DM 39-A-00-20-00-00A-120A-A prepare the helicopter on ground for a safe maintenance. Disconnect the battery, all electrical power sources and/or the external power supply.
- 2. In accordance with AMP DM 39-A-06-41-00-00A-010A-A and with reference to Figures 13, gain access to the area affected by removal.
- 3. With reference to Figure 16 View B-B, remove the LH louver P/N 3G2580A10152 and the related hardware. Retain for later re-use.
- 4. With reference to Figure 17 View D-D, remove and discard the screw P/N AN525-10R9.
- With reference to Figure 17 View D-D, remove the plate assy P/N 999-0500-85-127.
   Retain for later re-use.
- With reference to Figure 16 View B-B, remove the bubble window liner lower LH P/N 3G2580P07731 and the related hardware. Discard the bubble window liner lower LH. Retain fixing hardware for later re-use.
- 7. With reference to Figure 16 View B-B, remove the angular assy LH P/N 3G2580A20732 and the related hardware. Discard the angular assy LH. Retain fixing hardware for later re-use.
- 8. With reference to Figure 16 View B-B, remove the window liner upper LH for bubble window P/N 3G2580P07431 and the related hardware. Discard the window liner upper LH for bubble window. Retain fixing hardware for later re-use.
- 9. With reference to Figure 14 View A-A, remove the RH louver P/N 3G2580A10252 and the related hardware. Retain for later re-use.
- 10. With reference to Figure 15 View C-C, remove and discard the screw P/N AN525-10R9.
- 11. With reference to Figure 15 View C-C, remove the lower cover assy P/N 3G2580A19231. Retain for later re-use.
- 12. With reference to Figure 14 View A-A, remove the bubble window liner lower RH P/N 3G2580P07831 and the related hardware. Discard the bubble window liner lower RH. Retain fixing hardware for later re-use.
- 13. With reference to Figure 14 View A-A and Figure 15 Section E-E, remove n°2 pendant closures P/N 3G5316A40851 and the related hardware. Retain for later re-use.
- 14. With reference to Figure 14 View A-A, remove the angular assy RH P/N 3G2580A20832 and the related hardware. Discard the angular assy RH. Retain fixing hardware for later re-use.
- 15. With reference to Figure 14 View A-A, remove the bubble window liner upper RH P/N 3G2580P07631 and the related hardware. Discard the bubble window liner upper RH. Retain fixing hardware for later re-use.
- 16. In accordance with AMP DM 39-A-06-41-00-00A-010A-A and with reference to

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Figures 18 thru 20, gain access to the area affected by the side wall window retro modification P/N 3G5310P12111 as described in the following procedure:

- 16.1 With reference to Figure 18 Top View, remove and discard the bubble window P/N 3G5620L00251 on the left side of the helicopter.
- 16.2 With reference to Figure 18 Top View, remove and discard the gasket P/N A115A1340AB2131 on the left side of the helicopter.
- 16.3 With reference to Figure 20 Detail C, remove and discard the profile P/N 3G5620A00551, n°6 special washer P/N 3G5620A01351 and n°6 screws P/N AN525-10R9 on the left side of the helicopter.
- 16.4 With reference to Figure 19 Detail E, drill n°2 hole Ø14.25÷14.38 in the indicated positions on the left side of the helicopter.
- 16.5 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 19 Detail E, install n°2 inserts P/N NAS1832-3-4M by means of adhesive EA934NA (C057) on the left side of the helicopter.
- 16.6 With reference to Figure 19 Detail E, fill n°2 existing inserts by means of adhesive EA934NA (C057) on the left side of the helicopter.
- 16.7 With reference to Figure 19 Detail E, remove adhesive flange remained until side wall panel skin ensuring no damage skin on the left side of the helicopter.
- 16.8 With reference to Figure 19 Detail E and Section F-F, mill n°3 existing inserts until side wall panel skin ensuring no damage skin. Fill n°3 milled inserts by means of adhesive EA934NA (C057) on the left side of the helicopter.
- 16.9 With reference to Figure 20 Detail D, fill n°18 existing inserts by means of adhesive EA934NA (C057) on the left side of the helicopter.
- 16.10 Repeat steps 16.1 thru 16.9 for the right side of the helicopter.
- 16.11 In accordance with the applicable steps of AMP DM 39-A-56-21-01-00A-920A-A and with reference to Figure 19 Section B-B, install the window panel P/N 3P5330A18951, the extrusion rubber window seal P/N A417AG002WB, n°2 extrusion rubber filler P/N A417AF001WB on the left side of the helicopter.
- 16.12 In accordance with the applicable steps of AMP DM 39-A-56-21-01-00A-920A-A and with reference to Figure 20 Detail C, install the strap assembly P/N A487A005A in the indicated position on the left side of the helicopter.
- 16.13 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 20 Detail C, install the decal P/N A180A005E2 in the indicated position on the left side of the helicopter.
- 16.14 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 20 Detail C, install n°4 decals P/N A181A001E1 in the indicated positions on the left side of the helicopter.

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- 16.15 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 20 Detail C, install the decal P/N 999-2701-45-509 in the indicated position on the external left side of the helicopter.
- 16.16 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 20 Detail C, install the decal P/N A180A009E2 in the indicated position on the left side of the helicopter.
- 16.17 In accordance with the applicable steps of AMP DM 39-A-56-21-02-00A-920A-A and with reference to Figure 19 Section B-B and Figure 20 Detail C, repeat steps 16.11 thru 16.16 for the right side of the cabin.
- 17. With reference to Figure 4 thru 12 and Figure 22 wiring diagram, perform HEEL lights cabin windows variant P/N 3G3350A04311 as described in the following procedure:
  - 17.1 With reference to Figures 4 and 5, perform HEELS high visibility structural provision P/N 3G5318A18911 as described in the following procedure:
    - 17.1.1 With reference to Figure 4 View F and Section G-G, temporarily locate the mounting bracket P/N 3G3350V00351 on the forward lower panel assy P/N 3P5331A02132 and countermark n°4 holes in accordance with the dimensioning shown.
    - 17.1.2 With reference to Figure 4 View F and Section G-G, drill n°4 holes Ø11.48÷11.61 thru the forward lower panel assy P/N 3P5331A02132.
    - 17.1.3 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 4 Section G-G. n°4 install inserts P/N NAS1836C3-13M the forward on lower panel assy P/N 3P5331A02132 by means adhesive EA934NA (C057).

#### Prepare and protect show surface for electrical bonding.

- 17.1.4 With reference to Figure 4 Section G-G, install the mounting bracket P/N 3G3350V00351 on the forward lower panel assy P/N 3P5331A02132 by means of n°4 screws P/N MS35207-260 and n°4 washers P/N NAS1149D0316J.
- 17.1.5 With reference to Figure 4 View F and Section H-H, drill n°2 holes Ø11.48÷11.61 thru the forward lower panel assy P/N 3P5331A02132 in accordance with the dimensioning shown.
- 17.1.6 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 4 Section H-H, install n°2 inserts

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- P/N NAS1836C08-13M on the forward lower panel assy P/N 3P5331A02132 by means adhesive EA934NA (C057).
- 17.1.7 With reference to Figure 5 Detail D and Section E-E, temporarily locate the connector support P/N A414A02V209E1 on the side wall panel P/N 3P5335A00233 and countermark n°2 holes in accordance with the dimensioning shown.
- 17.1.8 With reference to Figure 5 Detail D and Section E-E, drill n°2 holes Ø11.48÷11.61 on the side wall panel P/N 3P5335A00233.
- 17.1.9 In accordance with CSRP DM CSRP-A-51-42-00-00A-720A-D and with reference to Figure 5 Detail D and Section E-E, install n°2 inserts P/N NAS1832-3-5 on the side wall panel P/N 3P5335A00233 by means adhesive EA934NA (C057).
- 17.1.10 With reference to Figure 5 Detail D and Section E-E, install the connector support P/N A414A02V209E1 on the side wall panel P/N 3P5335A00233 by means of n°2 screws P/N MS27039-1-07.
- 17.1.11 With reference to Figure 5 Detail A and Section C-C repeat steps 17.1.1 thru 17.1.4 to install the mountain bracket P/N 3G3350V00351 on the side wall panel P/N 3P5337A00233.
- 17.1.12 With reference to Figure 5 Detail A and Section B-B repeat steps 17.1.7 thru 17.1.10 to install the connector support P/N A414A02V209E1 on the side wall panel P/N 3P5337A00233.

Perform steps 17.2 and 17.3 only if the helicopter is NOT equipped with kit AVCS. Otherwise skip at step 17.4.

#### **NOTE**

Perform steps 17.2 only if the helicopter is NOT equipped with kit ICS P/N 3G2350A01014. Otherwise skip at step 17.3.

- 17.2 With reference to Figure 7 View A, install n°3 standoffs P/N A388A3E12C on the structure (STA 3899.0) in the locations n°11 thru n°13.
- 17.3 With reference to Figure 7 View A, install n°3 studs P/N A366A3E12C on the structure (STA 3899.0) in the locations n°8 thru n°10.

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# Perform the following step 17.4 only if the helicopter is equipped with kit AVCS. Otherwise skip at step 17.5.

- 17.4 With reference to Figure 12 View A1, remove and re-install n°8 electrical supports P/N AW001CL001-N6 on the structure (STA3899.0) in the locations n°1 thru n°8.
- 17.5 With reference to Figure 8 View B-B, install the stud P/N A366A3E12C on the structure in the location n°2.
- 17.6 With reference to Figure 8 View B-B, install the electrical support P/N AW001CL005C01-X1 on the structure in the location n°1.
- 17.7 With reference to Figure 8 View B-B, install n°2 nonmetallic channels P/N A236A03AB on the hole edges shown on figure.
- 17.8 With reference to Figure 8 View D-D, install the electrical support P/N AW001CL509-N6 on the structure in the location n°7 by means of the washer P/N NAS620C6L.
- 17.9 With reference to Figure 8 View C-C, install the electrical support P/N AW001CL005C01-X1 on the structure in the location n°4.
- 17.10 With reference to Figure 8 View C-C, install the stud P/N A366A3E12C on the structure in the location n°3.
- 17.11 With reference to Figure 8 View C-C, install the electrical support P/N AW001CL001-N6 on the structure in the location n°5.
- 17.12 With reference to Figure 8 View C-C, install n°2 nonmetallic channels P/N A236A03AB on the hole edges shown on figure.
- 17.13 With reference to Figure 8 View D-D, install the electrical support P/N AW001CL509-N6 on the structure in the location n°6 by means of the washer P/N NAS620C6L.
- 17.14 With reference to Figure 9 View looking down center floor, install n°2 electrical supports P/N AW001CL001-N6 on the structure in the locations n°1 and n°2.
- 17.15 With reference to Figure 11 View looking LH pax door from internal side, install n°8 electrical supports P/N AW001CL000A-X3 on the internal liner in the locations n°1 thru n°8.
- 17.16 With reference to Figure 11 Detail F, install n°2 electrical supports P/N AW001CL009-CM on the internal liner in the locations n°9 and n°20.
- 17.17 With reference to Figure 10 View looking RH pax door from internal side, install n°8 electrical supports P/N AW001CL000A-X3 on the internal liner in the locations n°10 thru n°17.
- 17.18 With reference to Figure 10 Detail G, install n°2 electrical supports P/N AW001CL009-CM on the internal liner in the locations n°18 and n°19.



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, but the tubing protection is not substitute for good routing practice.

- 17.19 With reference to Figure 6 thru 12, lay down the following cable assemblies on the existing routes unless otherwise indicated on the figures:
  - 3G9B01A29802 HEEL lights cabin windows C/A (B1A298)
  - 3G9B01B29802 HEEL lights cabin windows C/A (B1B298)
  - 3G9B01B32602 HEEL lights cabin windows C/A (B1B326)
- 17.20 With reference to Figures 6 thru 12, secure the cable assemblies laid down at the previous step by means of existing hardware and lacing cords.
- 17.21 With reference to Figure 9 View looking down center floor, install the mounting rail P/N A522A02A on the structure by means of n°2 screws P/N MS35206-241 and n°2 washers P/N NAS1149DN816J.
- 17.22 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 9 View looking down center floor, install the decal P/N ED300TB263 next to the mounting rail P/N A522A02A.
- 17.23 With reference to Figure 9 View looking down center floor, install the terminal board P/N 001755-105-02 (TB263) on the mounting rail P/N A522A02A.
- 17.24 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 9 View looking down center floor, install the decal P/N ED300TB2047 next to the junction in-line TB2047.
- 17.25 With reference to Figure 9 View looking down center floor, install the power supply assy P/N 3G3350A01711 in its position on the structure.
- 17.26 With reference to Figure 9 View looking down center floor and Figure 22 wiring diagram, perform electrical connection of the cable on part of the power supply assy P/N 3G3350A01711 to the junction in-line TB2047, the terminal board TB263 and n°2 splices SPG7-1 and SPG7-2.
- 17.27 With reference to Figure 9 View looking down center floor, remove existing screws and install n°2 clamps P/N AW001CB04H on C/A B1B298 and C/A B1B326 by means of n°2 screws P/N NAS1802-3-18.

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17.28 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 9 View looking down center floor, install the decal P/N ED300G7 next to the power supply assy P/N 3G3350A01711.

## **NOTE**

Perform the following step 17.29 only if the helicopter is NOT equipped with kit ICS P/N 3G2350A01014. Otherwise skip at step 17.30.

17.29 With reference to Figure 7 View A, install n°3 clamps P/N AW001CB04H on C/A B1A298 by means of n°3 screws P/N NAS1190E3P6AK and n°3 washers P/N NAS1149D0332J.

## **NOTE**

Perform the following step 17.30 only if the helicopter is equipped with kit ICS P/N 3G2350A01014. Otherwise skip at step 17.31.

- 17.30 With reference to Figure 7 View E-E, remove existing screws and install n°3 clamps P/N AW001CB06H on C/A B1A298 and C/A B2A204 by means of n°3 screws P/N NAS1190E3P8AK.
- 17.31 With reference to Figure 7 View A, install n°3 clamps P/N AW001CB06H on C/A B1B298 and C/A B1B326 by means of n°3 nuts P/N MS21043L3 and n°3 washers P/N NAS1149D0332J.
- 17.32 With reference to Figure 8 View B-B, install the flange connector P/N M85049/95-12A-A on the support by means of n°4 screws P/N NAS1802-04-7 and n°4 washers P/N NAS1149D0416J.
- 17.33 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 8 View B-B, install the decal P/N ED300J283 next to the connector J283.
- 17.34 With reference Figure 8 View B-B, to install the clamp P/N AW001CB04H the C/A B1A298 of the on by means nut P/N MS21043L3 and the washer P/N NAS1149D0332J.
- 17.35 With reference to Figure 8 View C-C, repeat step 17.32.
- 17.36 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 8 View C-C, install the decal P/N ED300J284 next to the connector J284.
- 17.37 With reference to Figure 8 View C-C, install the clamp P/N AW001CB05H on the C/A B1B298 and C/A B1B326 by means of the nut P/N MS21043L3 and the washer P/N NAS1149D0332J.
- 17.38 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 8 View C-C, install the decal P/N ED300TB2054 next to the junction in-line

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TB2054.

- 17.39 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 8 View C-C, install the battery assy P/N 3G3350A01811 on the mounting bracket previously installed and install the relevant decal P/N ED300BT7.
- 17.40 With reference to Figure 8 View C-C and Figure 22 wiring diagram, perform electrical connection of the cable on part of the battery assy P/N 3G3350A01811 to the junction in-line TB2054.
- 17.41 In accordance with AMP DM 39-C-33-52-12-00A-921A-K and with reference to Figure 10 View looking RH pax door from internal side and Figure 22 wiring diagram, install the HEELS light assy P/N 3G3350A00611 on the RH pax door. Perform electrical connection to connector P284.
- 17.42 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 10 View looking RH pax door from internal side, install the decal P/N ED300DS86, P/N ED300DS87, P/N ED300DS88, P/N ED300DS89 and P/N ED300DS90 next to the relevant light.
- 17.43 In accordance with AMP DM 39-C-33-52-11-00A-921A-K and with reference to Figure 11 view looking LH pax door from internal side and Figure 22 wiring diagram, install the HEELS light assy P/N 3G3350A00611 on the LH pax door. Perform electrical connection to connector P283.
- 17.44 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 11 view looking LH pax door from internal side, install the decal P/N ED300DS66, P/N ED300DS67, P/N ED300DS68, P/N ED300DS69 and P/N ED300DS70 next to the relevant light.
- 17.45 Reference to Figure 10 Detail G and Figure 11 Detail F, install the water sensor S114 and the water sensor S113 on the window liners.
- 17.46 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 10 Detail G and Figure 11 Detail F, install the decal P/N ED300S114 next to the water sensor S114 and the decal ED300S113 next to the water sensor S113.
- 17.47 With reference to Figure 22 wiring diagram, perform electrical connection of C/A B1A298 to the terminal board TB263. Use n°10 electrical contacts P/N A523A-A01 (TB263 side).
- 17.48 With reference to Figure 8 View B-B and Figure 11 View looking LH pax door from internal side, connect the connector J283 to the connector P283.
- 17.49 With reference to Figure 22 wiring diagram, perform electrical connection of C/A B1B298 to the terminal board TB263 and to the splices SPG7-1 and SPG7-2. Use n°10 electrical contacts P/N A523A-A01 (TB263 side).
- 17.50 With reference to Figure 8 View C-C and Figure 10 View looking RH pax door from

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internal side, connect the connector J284 to the connector P284.

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

18. With reference to Figure 17 Section F-F, temporarily locate the angular assy LH P/N 3G2580A20731 and the rework window liner bonded assy LH P/N 3G2580A46131 and drill n°4 screw holes Ø4.90÷5.03 according to n°4 inserts on the structure.

## **NOTE**

If necessary, it is allowed to locally rework liners to perform required water sensors test holes and prevent interference.

- 19. With reference to Figure 16 View B-B, install the rework window liner bonded assy LH P/N 3G2580A46131 by means of the previously removed hardware (Ref. step 8).
- 20. With reference to Figure 16 View B-B, install the angular assy LH P/N 3G2580A20731 by means of the previously removed hardware (Ref. step 7).
- 21. With reference to Figure 16 View B-B, install the window liner rework lower LH P/N 3G2580P04232 by means of the previously removed hardware (Ref. step 6).
- 22. With reference to Figure 16 View B-B, re-install the LH louver P/N 3G2580A10152 by means of the previously removed hardware (Ref. step 3).
- 23. With reference to Figure 17 View D-D, re-install the plate assy P/N 999-0500-85-127 (Ref. step 5).
- 24. With reference to Figure 17 View D-D, install the fastener snap P/N MS27980-18B.
- 25. With reference to Figure 17 Section F-F, temporarily locate the angular assy RH P/N 3G2580A20831 and the window liner upper RH modification P/N 3G2580P04132 and drill n°4 screw holes Ø4.90÷5.03 according to n°4 inserts on the structure.

#### **NOTE**

If necessary, it is allowed to locally rework liners to perform required water sensors test holes and prevent interference.

- 26. With reference to Figure 15 View A-A, install the window liner upper RH modification P/N 3G2580P04132 by means of the previously removed hardware (Ref. step 15).
- 27. With reference to Figure 15 View A-A, install the angular assy LH P/N 3G2580A20831 by means of the previously removed hardware (Ref. step 14).
- 28. With reference to Figure 15 View A-A, install the window liner lower RH modification P/N 3G2580P06731 by means of the previously removed hardware (Ref. step 12).
- 29. With reference to Figure 15 View A-A, re-install the RH louver P/N 3G2580A10252 by means of the previously removed hardware (Ref. step 9).
- 30. With reference to Figure 15 View A-A and Figure 16 Section E-E, re-install n°2 pendant



- closures P/N 3G5316A40851 by means of the previously removed hardware (Ref. step 13).
- 31. With reference to Figure 15 View C-C, re-install the lower cover assy P/N 3G2580A19231 (Ref. step 11).
- 32. With reference to Figure 15 View C-C, install the fastener snap P/N MS27980-18B.
- 33. With reference to Figure 21, introduce the painting strip around the installed standard windows as shown on Figure and Table. Use commercial painting.
- 34. 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.
- 35. In accordance with the applicable step of AMP DM 39-C-33-52-00-00A-340A-K perform the function test of the emergency exit lighting system.
- 36. In accordance with weight and balance changes, update the Chart A (see Rotorcraft Flight Manual, Part II, section 6).
- 37. Return the helicopter to flight configuration and record for compliance with Part II of this Service Bulletin on the helicopter logbook.
- 38. Send the attached compliance form to the following mail box:

engineering.support.lhd@leonardo.com

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

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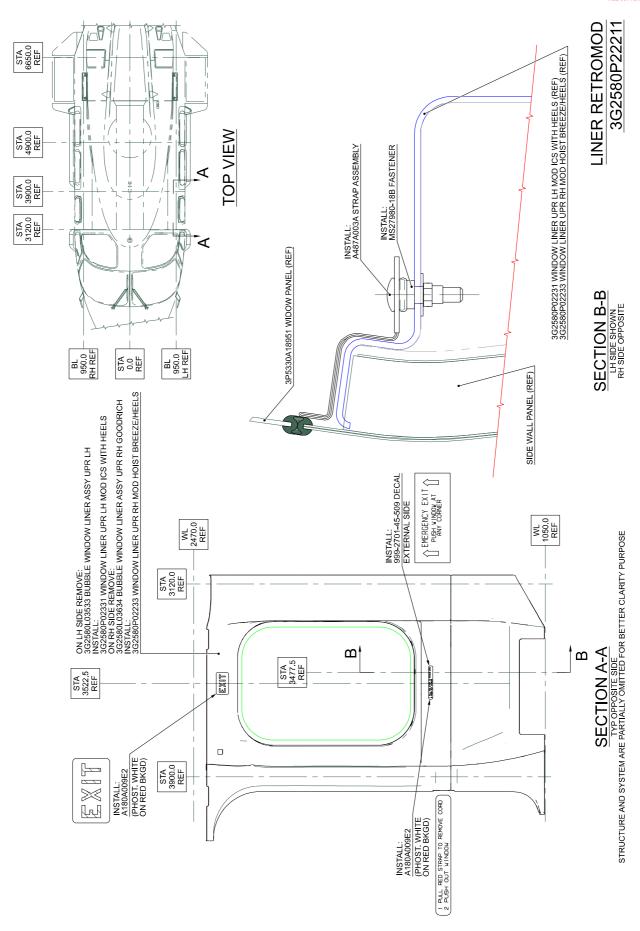


Figure 1



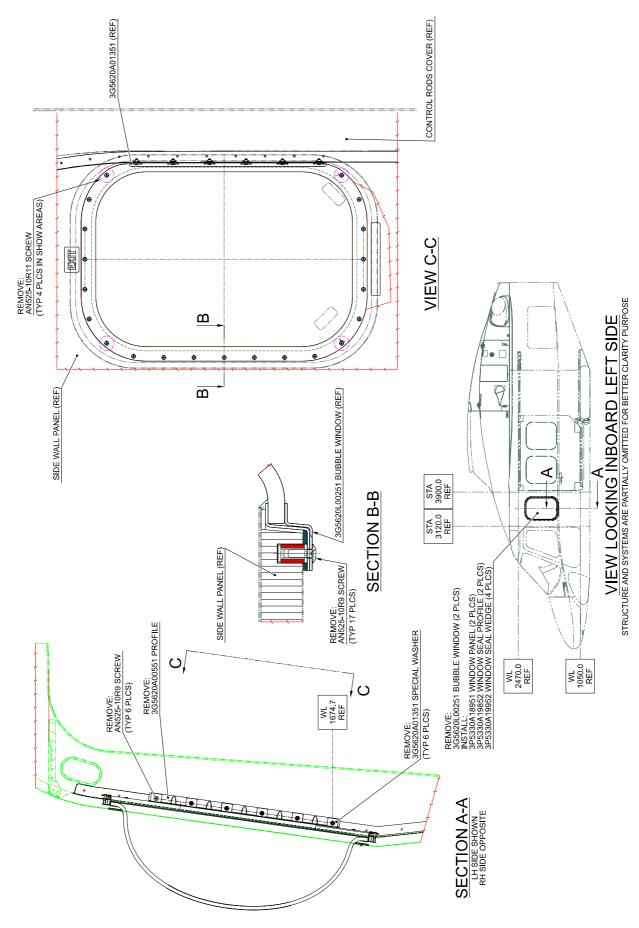


Figure 2

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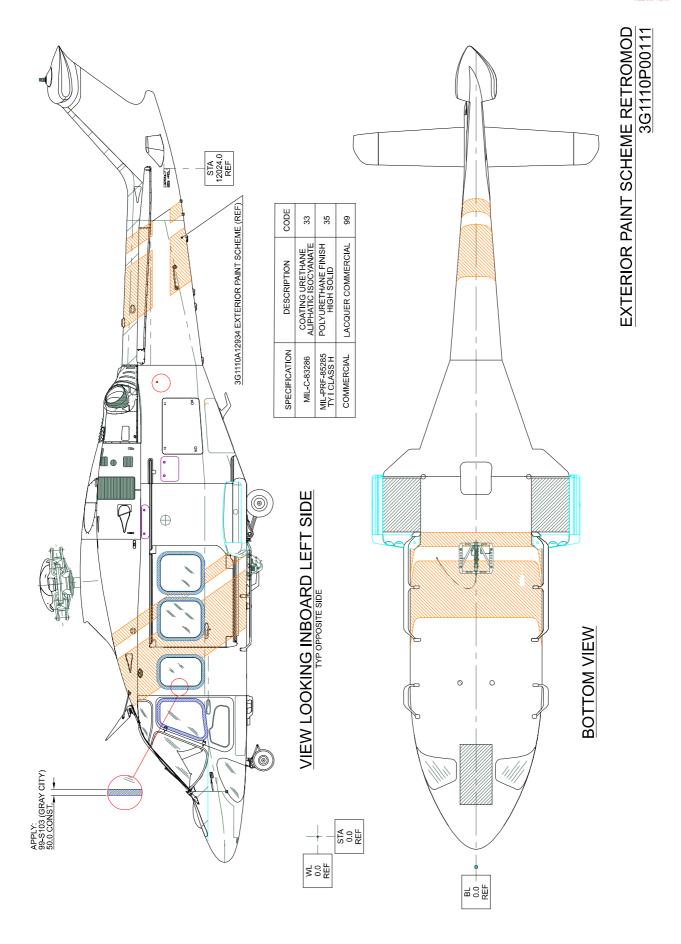


Figure 3



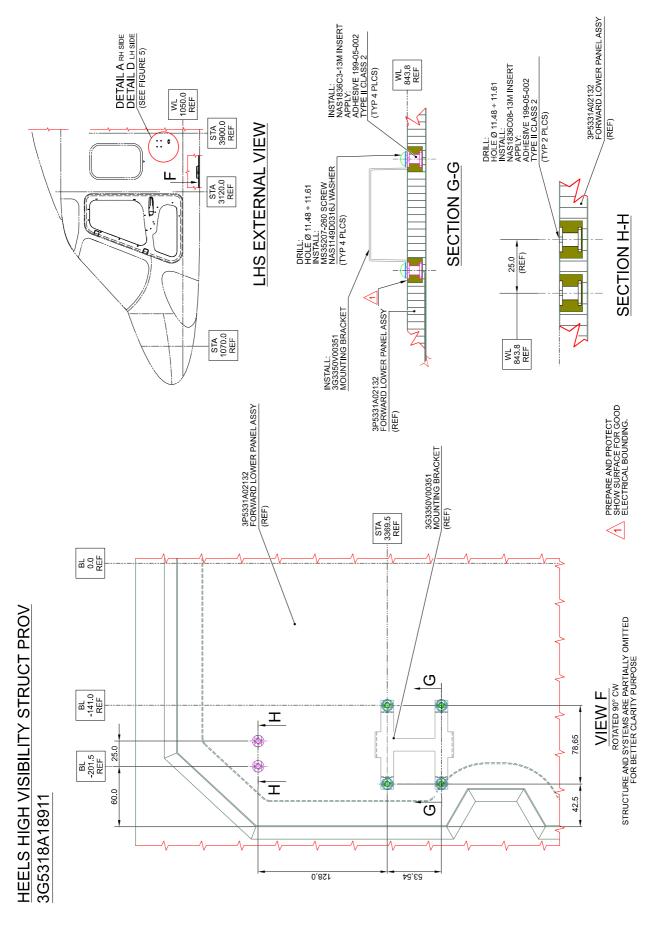


Figure 4

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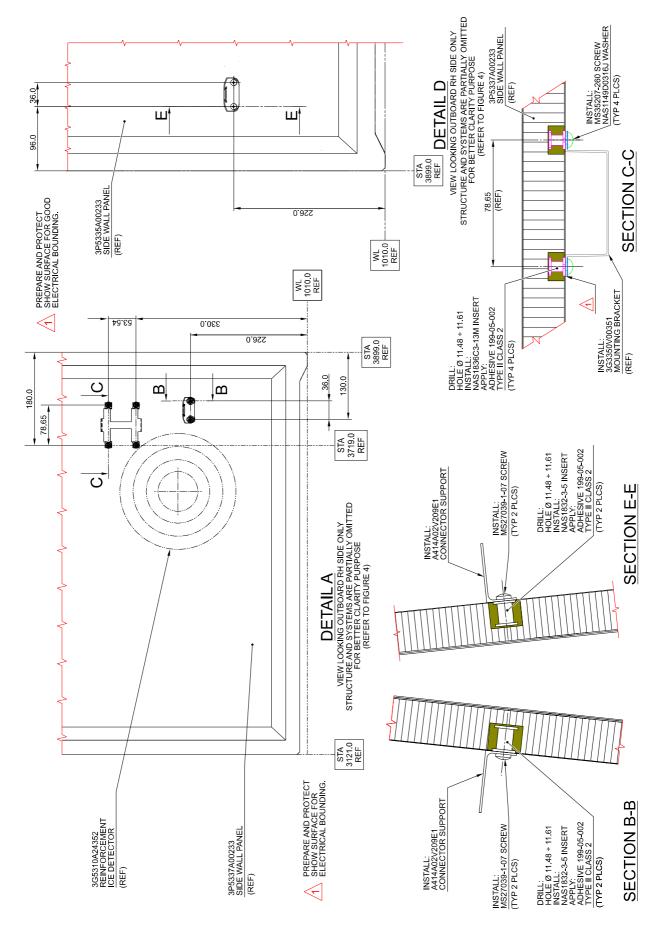


Figure 5



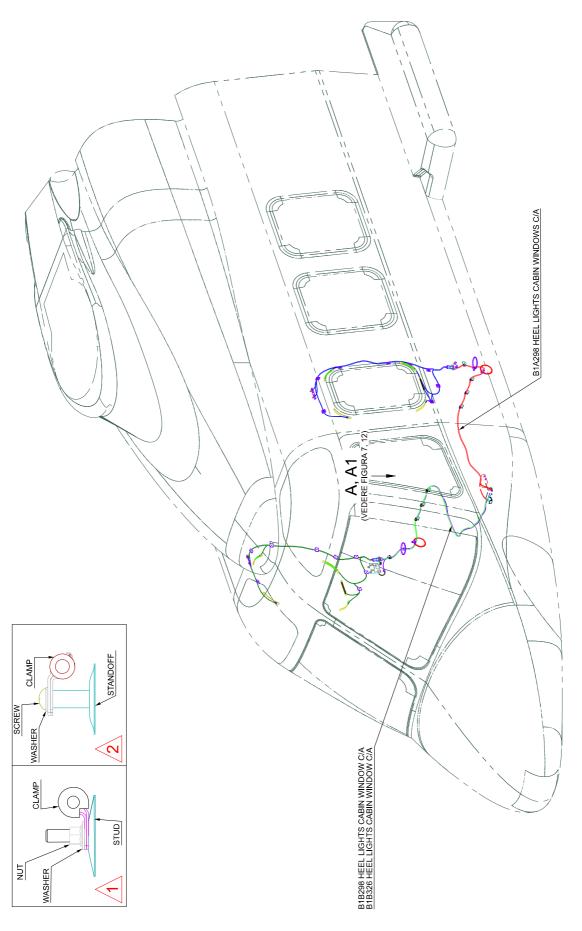
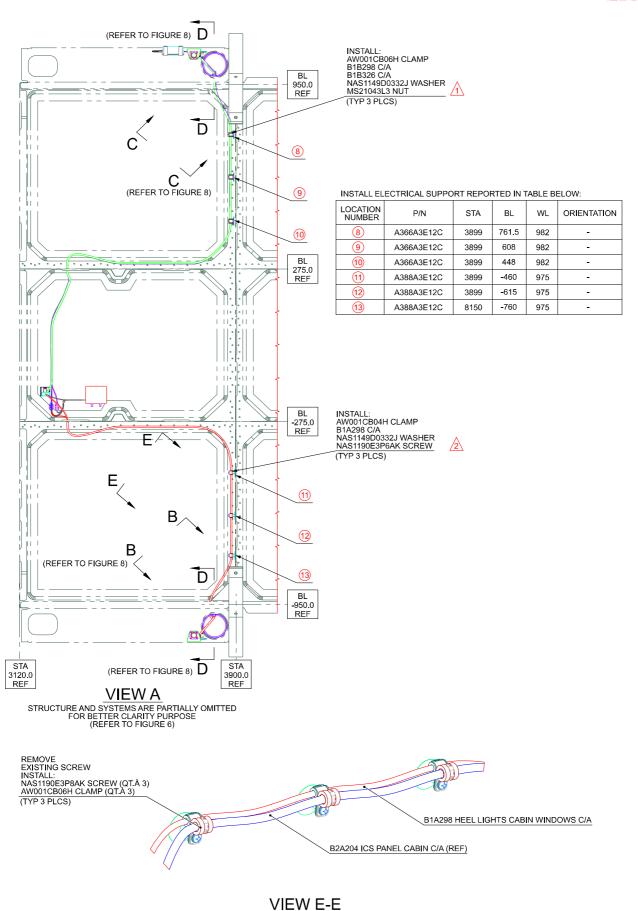


Figure 6

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APPLICABLE IF KIT ICS P/N 3G2350A01014 INSTALLED

Figure 7



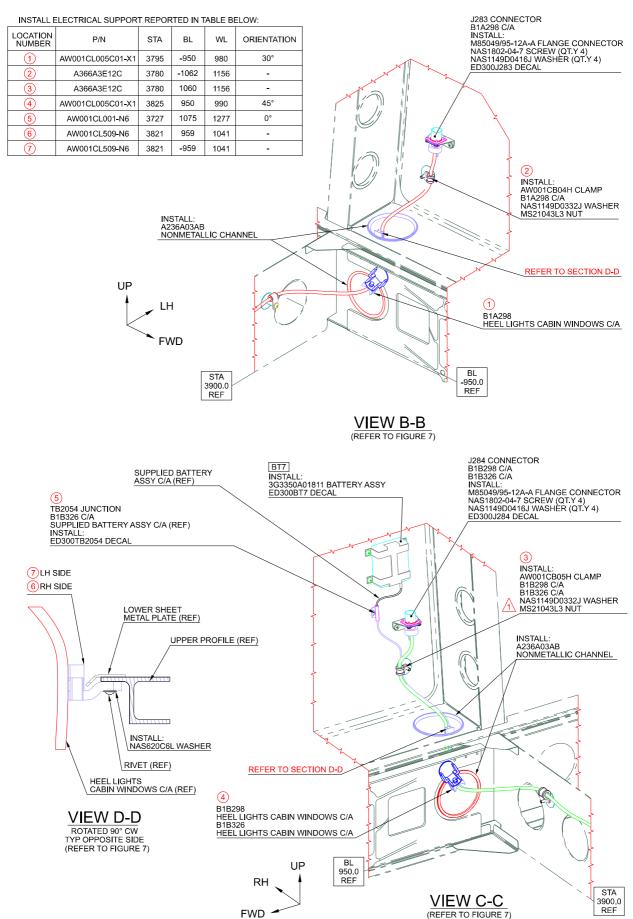


Figure 8



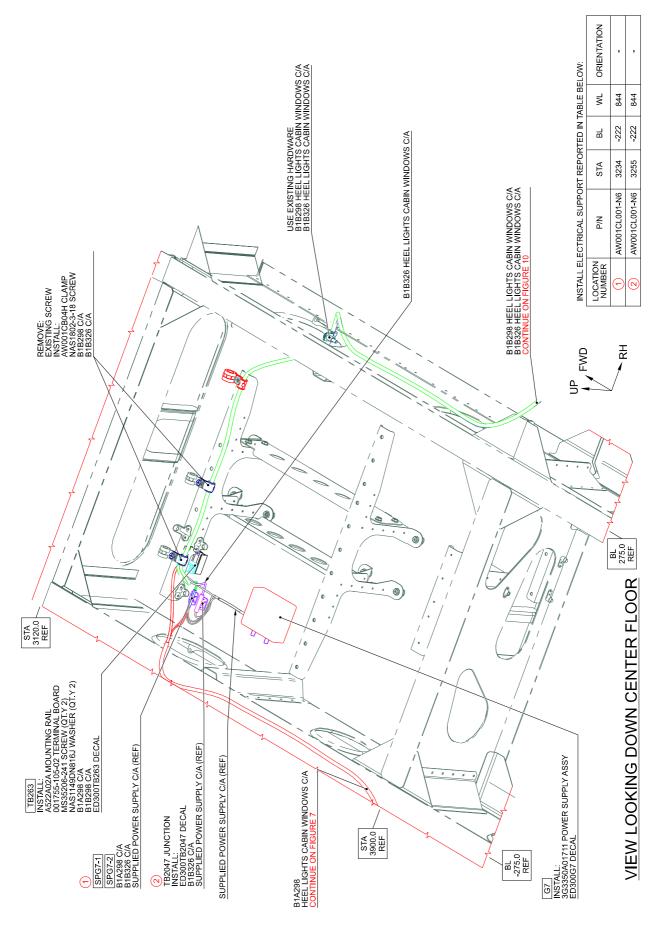
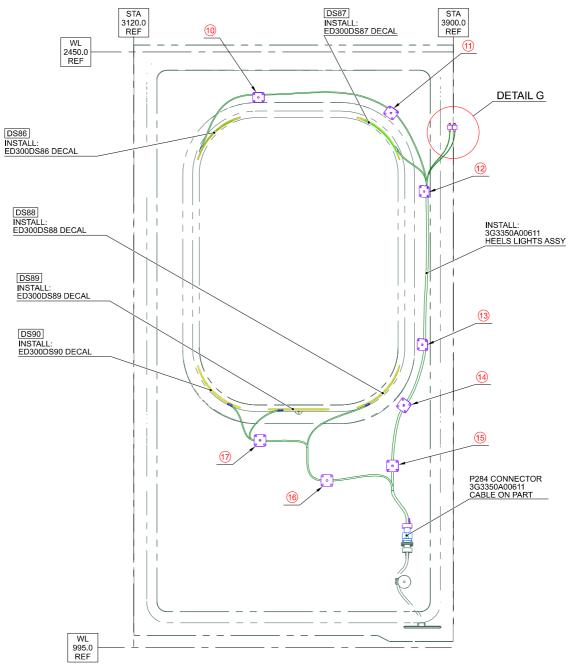


Figure 9





## VIEW LOOKING RH PAX DOOR FROM INTERNAL SIDE

STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

INSTALL ELECTR	ICAL SUPPORT	REPORTED I	N TABLE	BFI OW:

LOCATION NUMBER	P/N	STA	BL	WL	ORIENTATION
10	AW001CL000A-X3	3424	930	2339	0°
11)	AW001CL000A-X3	3748	941	2301	45°
12	AW001CL000A-X3	3828	939	2109	0°
13	AW001CL000A-X3	3824	1017	1735	0°
14)	AW001CL000A-X3	3779	1051	1587	45°
15	AW001CL000A-X3	3751	1020	1439	0°
16	AW001CL000A-X3	3591	1019	1403	0°
17	AW001CL000A-X3	3428	1023	1501	45°
18	AW001CL009-CM	3891	907	2266	0°
19	AW001CL009-CM	3891	907	2266	0°

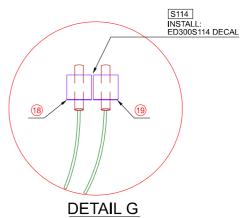
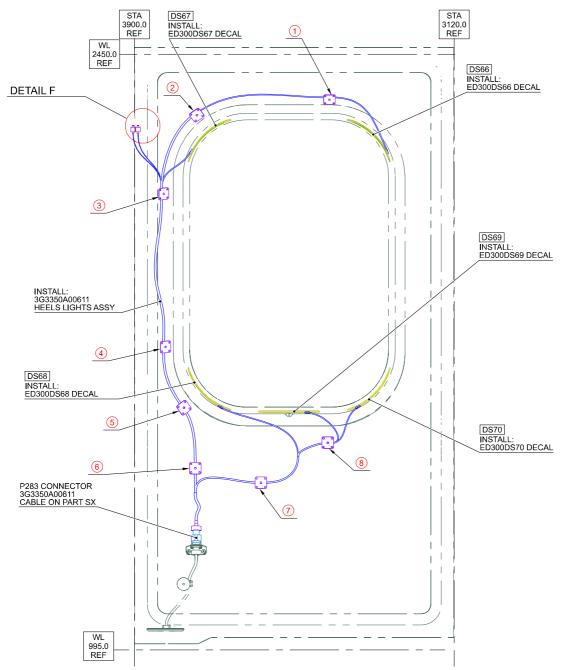


Figure 10

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## VIEW LOOKING LH PAX DOOR FROM INTERNAL SIDE

STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE

## INSTALL ELECTRICAL SUPPORT REPORTED IN TABLE BELOW:

LOCATION NUMBER	P/N	STA	BL	WL	ORIENTATION
1	AW001CL000A-X3	3424	-930	2339	0°
2	AW001CL000A-X3	3748	-941	2301	45°
3	AW001CL000A-X3	3828	-939	2109	0°
4	AW001CL000A-X3	3824	-1017	1735	0°
5	AW001CL000A-X3	3779	-1051	1587	45°
6	AW001CL000A-X3	3751	-1020	1439	0°
7	AW001CL000A-X3	3591	-1019	1403	0°
8	AW001CL000A-X3	3428	-1023	1501	45°
9	AW001CL009-CM	3891	-907	2266	0°
20	AW001CL009-CM	3903	-907	2266	0°

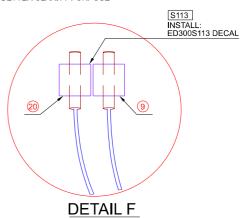


Figure 11



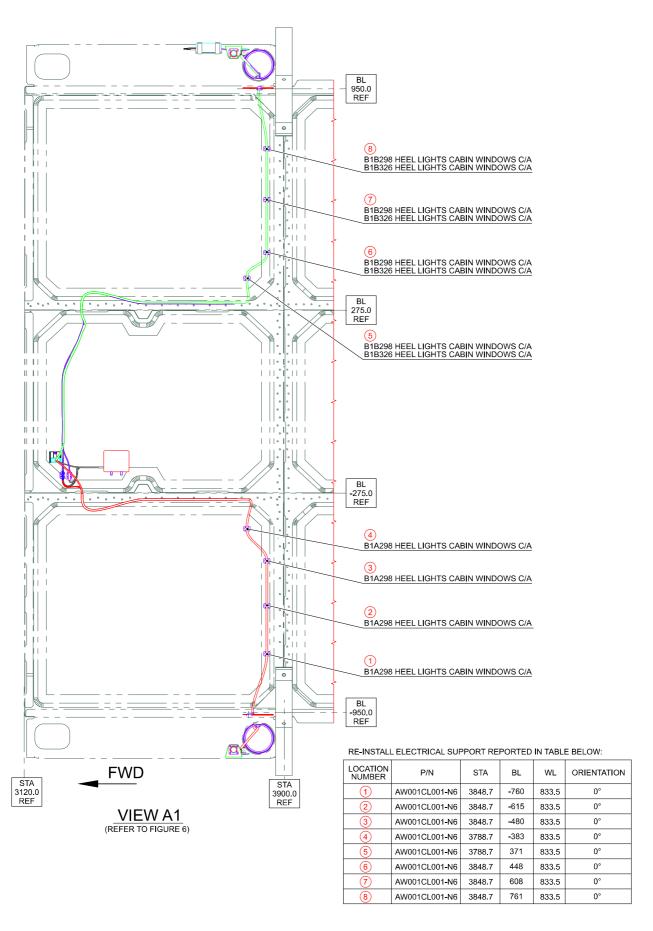


Figure 12



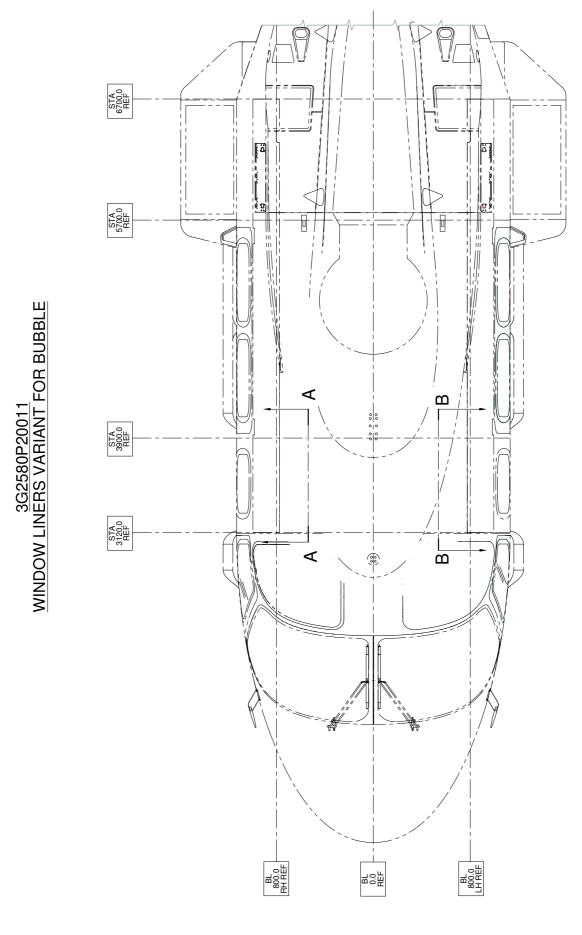


Figure 13



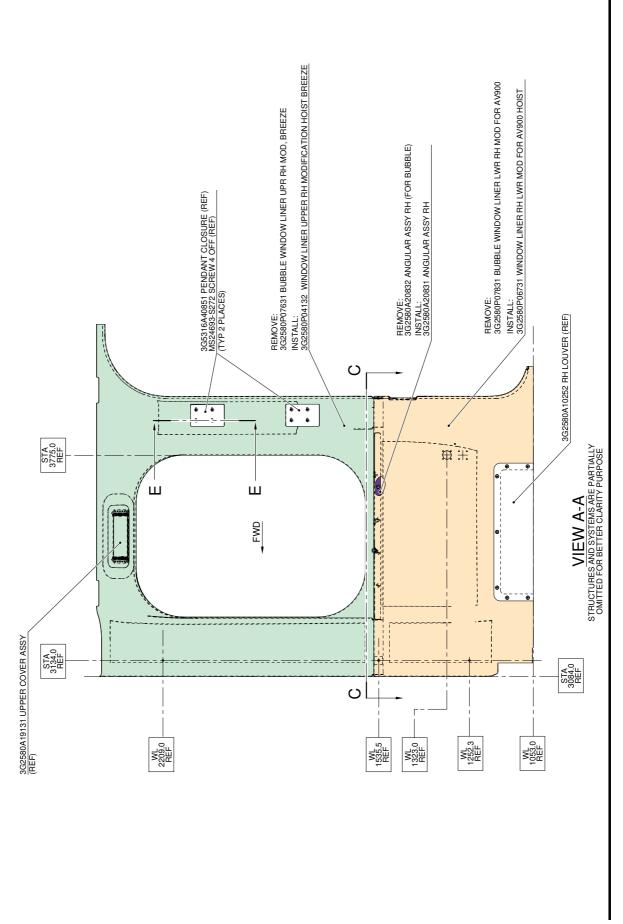


Figure 14



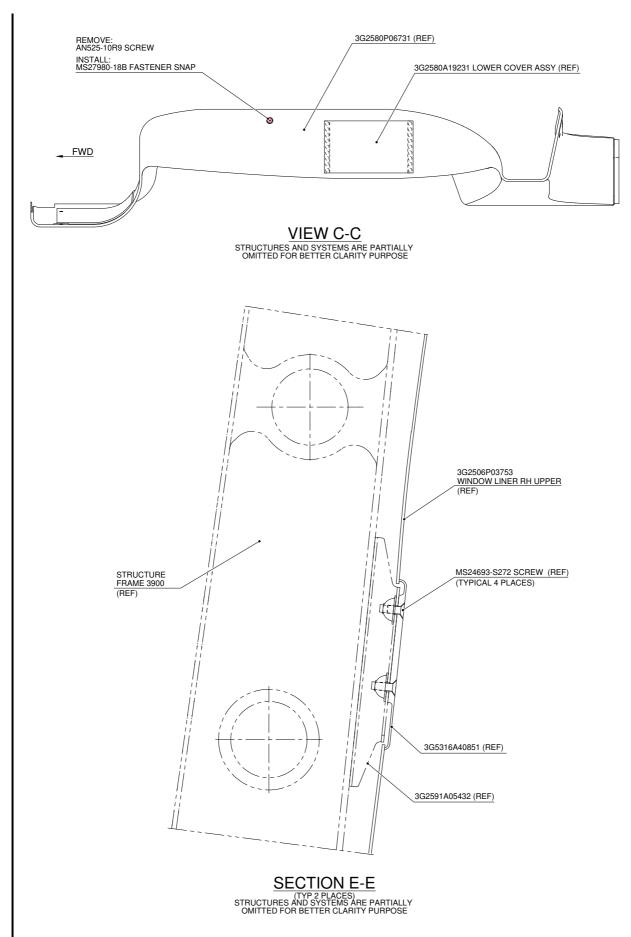


Figure 15



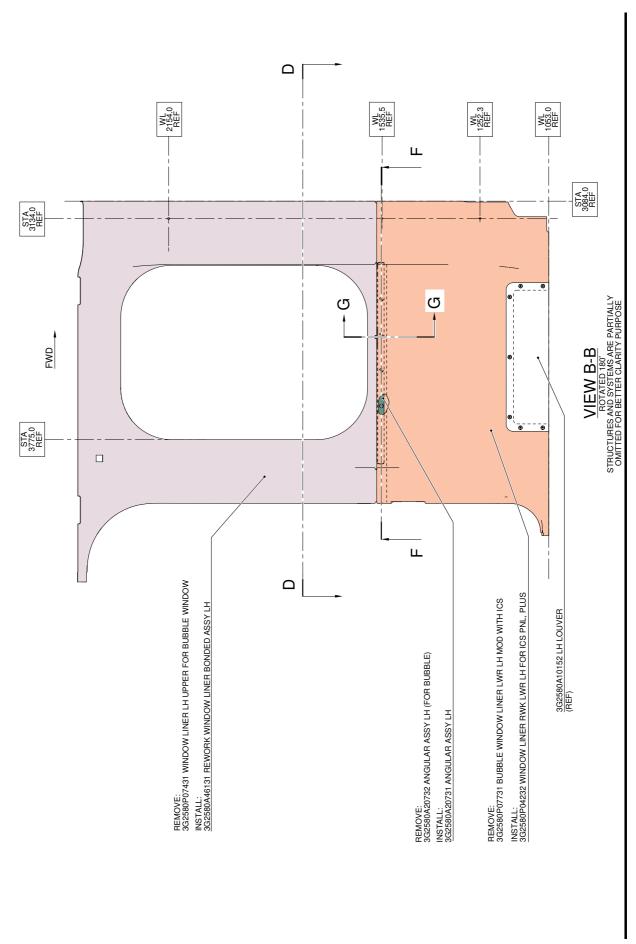


Figure 16



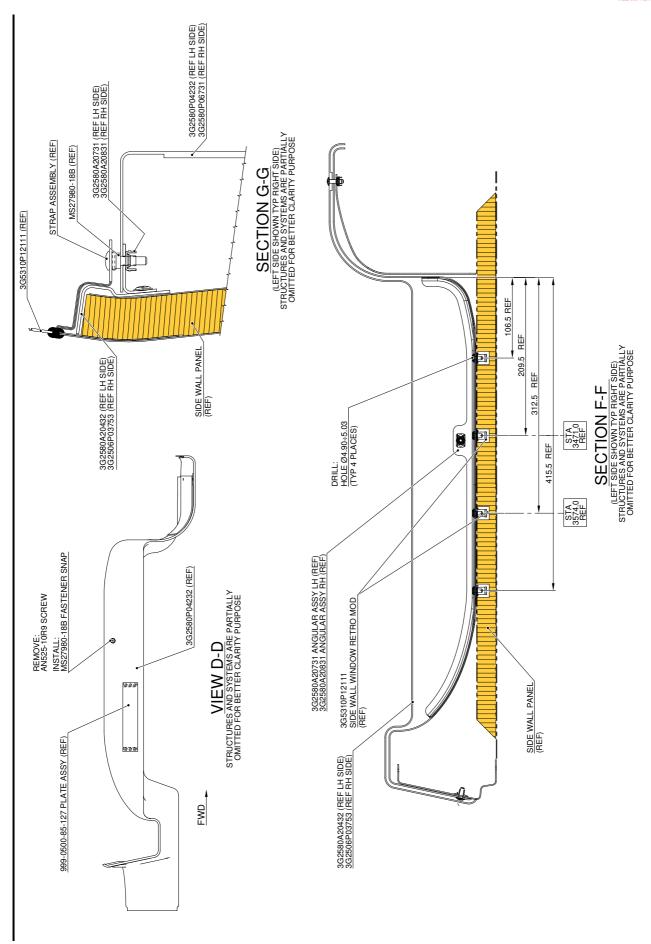


Figure 17



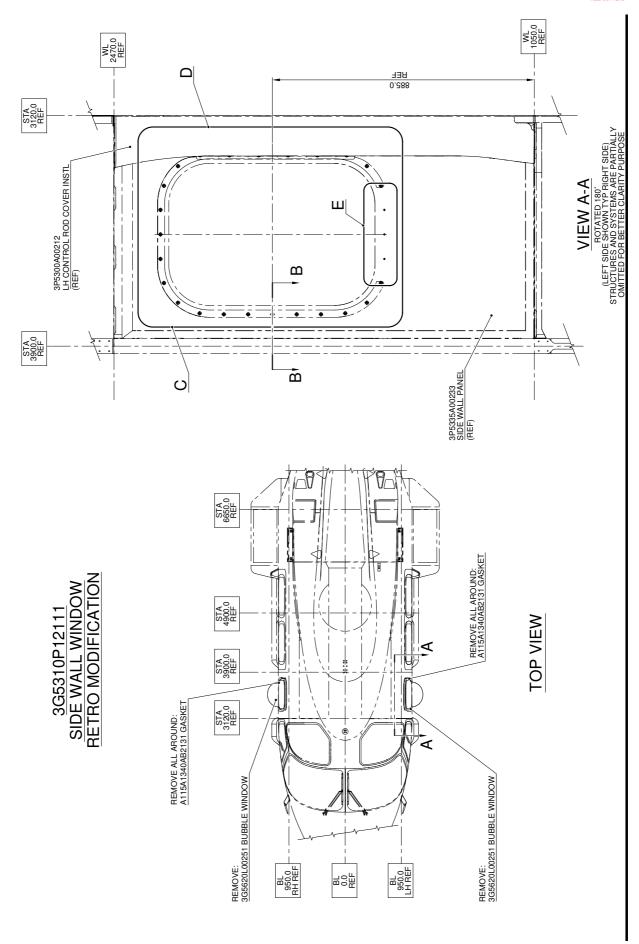


Figure 18



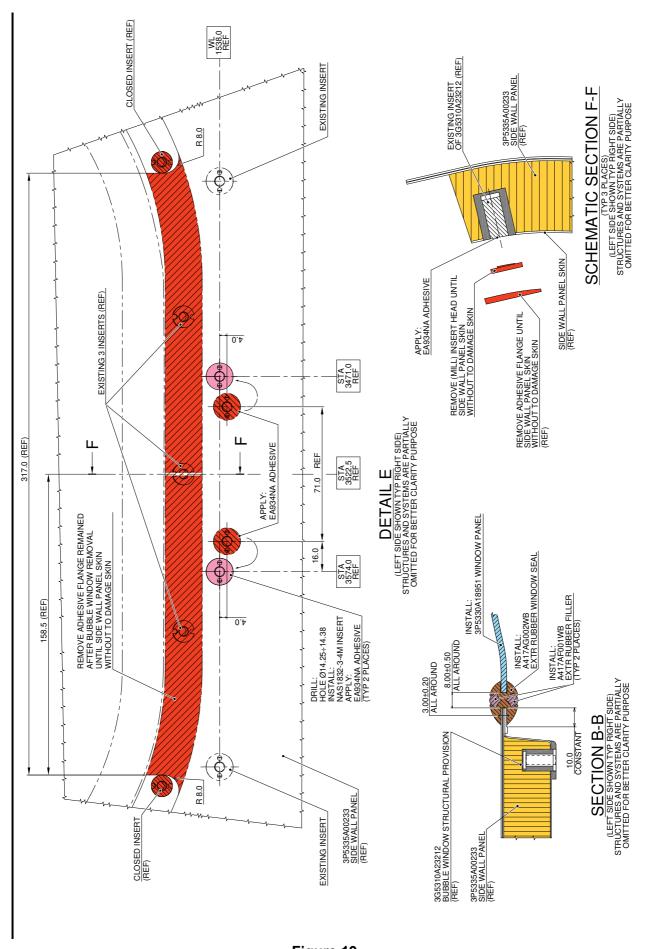


Figure 19



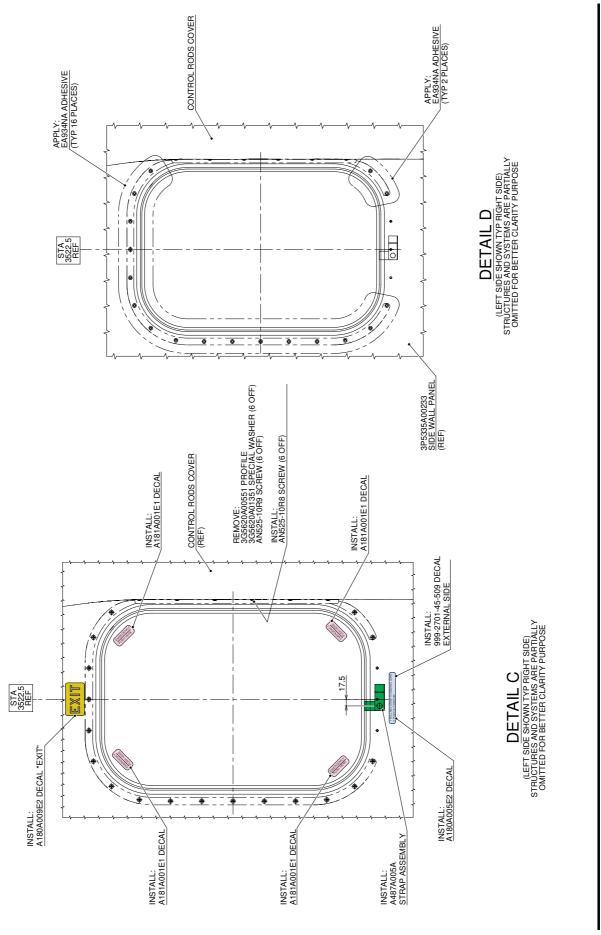


Figure 20



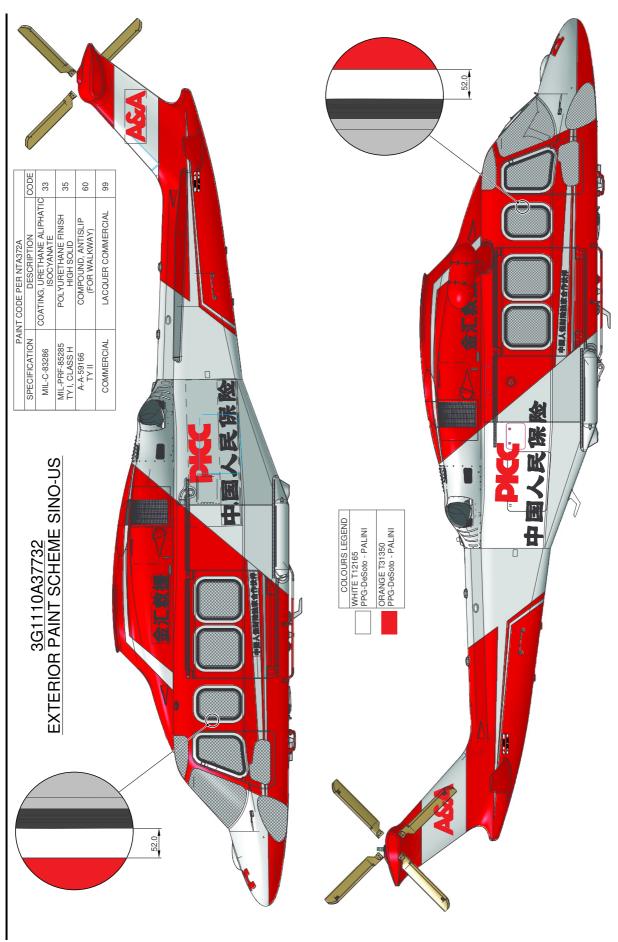


Figure 21



WIRING DIAGRAM HEEL LIGHTS
SHEET 1 3G3350W00911

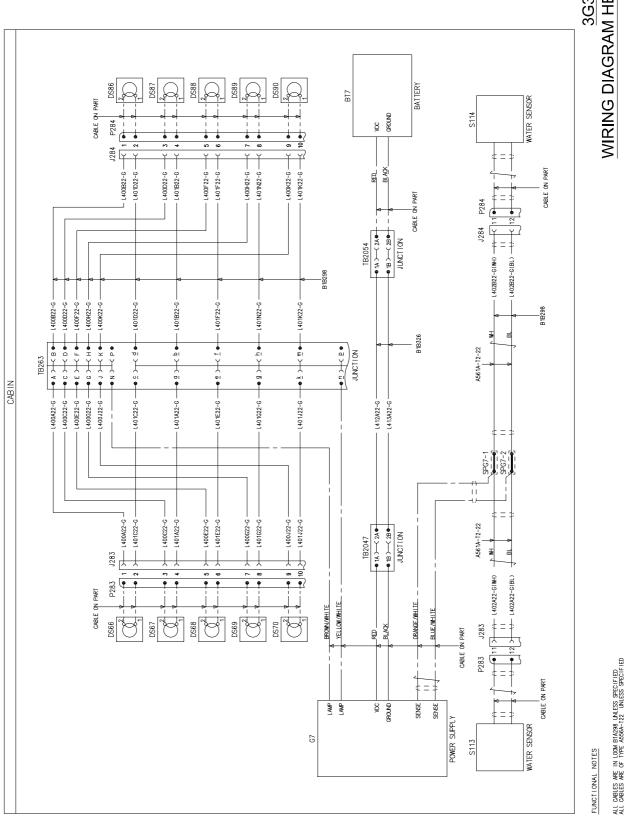


Figure 22

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Please send to the following address:		SERVICE BULLETIN COMPLIANCE FORM			Date:		
LEONARDO S.p.A. CUSTOMER SUPPORT & SERVICES - ITALY							
		Number:					
PRODUCT SUPPORT ENGINEE	RING & LICENSES DEPT.						
Via Giovanni Agusta, 520 21017 Cascina Costa di Samara	ate (VA) - ITALY	Revision:					
Tel.: +39 0331 225036 Fax: +39							
Customer Name and Addre	ess:			Telephone:			
				Fax:			
				B.T. Compliance Date:			
Helicopter Model	S/N		Total N	umber	Total Hours	T.S.O.	
Remarks:							
Information:							
We request your cooperation ir its parts and sent to the above	n filling this form, in order to address or you can commu	keep out standard	atistical data rel oplication also v	evant to aircrai ia Technical Bi	ft configuration up-to-date. Thulletin Application Communic	ne form should be filled in all ation Section placed in	

Leonardo AW Customer Portal - MyCommunications Area. We thank you beforehand for the information given.