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AgustaWestland Products

SERVICE BULLETIN

N° 139-463

DATE: February 25, 2021 REV.: /

TITLE

ATA 46 – INSTALLATION OF KIT CENTRAL DISPLAY

REVISION LOG

First Issue

An appropriate entry should be made in the aircraft log book upon accomplishment. If ownership of aircraft has changed, please, forward to new owner.



1. PLANNING INFORMATION

A. EFFECTIVITY

All 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 the necessary instruction on how to perform the installation of the installation of the kit central display Sirio Panel P/N 4G4630F00312.

E. DESCRIPTION

Leonardo Helicopter has developed this Service bulletin to install the kit central display Sirio panel P/N 4G4630F00312.

Part I of the Service Bulletin provide instructions on how to perform the central display Sirio Panel complete provision P/N 4G4630A00512.

Part II provide instructions on how to perform the central display Sirio Panel equipment installation P/N 4G4630A00711.

F. APPROVAL

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

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

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



G. MANPOWER

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

Part I: approximately one-hundred and sixty (160) MMH.

Part II: approximately one (1) MMH.

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

H. WEIGHT AND BALANCE

<u>PART I</u>

WEIGHT (Kg)		0.22
	ARM (mm)	MOMENT (Kgmm)
LONGITUDINAL BALANCE	1942	427.24
LATERAL BALANCE	-269	-59.18
PART II		
WEIGHT (Kg)		2.20
	ARM (mm)	MOMENT (Kgmm)
LONGITUDINAL BALANCE	2110	4642
LATERAL BALANCE	-43	-94.6

I. REFERENCES

1) PUBLICATIONS

Following Data Modules refer to AMP:

<u>DATA I</u>	MODULE	DESCRIPTION	PART
DM01	39-A-00-20-00-00A-120A-A	Helicopter safety. Pre operation (Make helicopter safe for maintenance)	I, II
DM02	39-A-11-00-01-00A-720A-A	Decal. Install procedure.	II
DM03	39-A-12-41-00-00A-510A-A	External electrical power. Disconnect procedure.	II
DM04	39-A-12-41-00-00A-710A-A	External electrical power. Connect procedure.	II
DM05	39-А-24-91-04-00А-920А-К	Integrally lighted panel. Replacement.	I
DM06	39-A-25-82-03-00A-520A-A	Left hinged lining panel. Remove procedure	I
DM07	39-A-25-82-03-00A-720A-A	Left hinged lining panel. Install procedure	I
DM08	39-A-52-44-01-00A-520A-A	Access panels. Remove procedure.	Ι



DATA MODULE

DESCRIPTION

DATA N	<u>MODULE</u>	DESCRIPTION	<u>PART</u>
DM09	39-A-52-44-01-00A-720A-A	Access panels. Install procedure.	Ι
DM10	39-A-52-44-03-00A-540A-A	Access door (latch lock). Open for access procedure.	Ι
DM11	39-A-52-44-03-00A-740A-A	Access door (latch lock). Close after access procedure.	Ι
DM12	39-B-31-11-02-00A-520A-A	Top cover. Remove procedure.	I, II
DM13	39-B-31-11-02-00A-720A-A	Top cover. Install procedure.	I, II
DM14	39-U-46-32-01-00A-720A-A	Central display. Install procedure	II
DM15	39-U-46-32-00-00A-320A-A	Central display installation- Operation test	II

2) ACRONYMS & ABBREVIATIONS

AMP	Aircraft	Maintenance	Publication

- DIA Diameter
- DOA **Design Organization Approval**
- DM Data Module
- EASA **European Aviation Safety Agency**
- LED Light Emitting Diode
- LH Leonardo Helicopter
- MDF **Multi-Functional Display**
- MMH Maintenance Man Hours
- RGB **Red Green Blue**
- SVGA Super Video Graphics Array
- VGA Video Graphics Array

3) ANNEX

N.A.

J. PUBLICATIONS AFFECTED

N.A.

K. SOFTWARE ACCOMPLISHMENT SUMMARY

Software to be updated:

- CD configuration (RD-12-00) P/N 728-1173/60;
- Operative software (RD-13-00) P/N 3G4605G00131.



2. MATERIAL INFORMATION

A. REQUIRED MATERIALS

1) PARTS

<u>PART I</u>

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
1	4G4630F00312		KIT CENTRAL DISPLAY SIRIO PANEL	REF			-
2	4G4630A00512		CENTRAL DISPLAY SIRIO PANEL COMPLETE PROVISION	REF			-
3	3G5310A48612		CENTRAL DISPLAY SIRIO PANEL STRUCTURAL PROVISION	REF			-
4	3G5311A06251		Cover plate	1			139-463L1
5	MS20426AD3-7		Rivet	0.1Kg			139-463L1
6	MS21073L3		Nut	4			139-463L1
7	MS35215-58		Screw	4			139-463L1
8	NAS620C10LP		Washer	4			139-463L1
9	4G4630A00612		CENTRAL DISPLAY SIRIO PANEL C/A ELECTRICAL PROVISION	REF			-
10	3G9A01A33401	3G9A01A33401A1R or 3G9A01A33401A1R	Display (Sirio panel) C/A A1A334	1			139-463L1
11	3G9B01A40401	3G9B01A40401A10R	Display (Sirio panel) C/A B1A404	1			139-463L1
12	AW001CL001-N6		Support	3			139-463L1
13	MS90376-16R		Protective cap	1			139-463L1
14	MS90376-20R		Protective cap	2			139-463L1
15	AW002FT110		Grommet	4			139-463L1
16	M39029/56-348		Electrical contact	10			139-463L1
17	M39029/12-149		Electrical contact	12			139-463L1
18	3G2490LXXXXX		Auxiliary C/B Panel	1		(1)	-
19	A556A-T16		Wire	1 m			139-463L1
20	MS25036-153		Terminal lug	1			139-463L1
21	M39029/56-352		Terminal lug	2			139-463L1
22	ED300CB346		Decal	1			139-463L1
23	MS3320-5		Circuit breaker	1			139-463L1

<u>PART II</u>

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL NOTE	LOG P/N
24	4G4630F00312		KIT CENTRAL DISPLAY SIRIO PANEL	REF		-
25	4G4630A00711		CENTRAL DISPLAY SIRIO PANEL EQUIPMENT INSTALLATION	REF		-
26	727-0912/30		Central display	1		139-463L2
27	ED300A278		Decal	1		139-463L2
28	MS35215-58		Screw	4		139-463L2
29	NAS620C10LP		Washer	4		139-463L2

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



2) CONSUMABLES

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

#	Spec./LHD code number	DESCRIPTION	Q.TY	NOTE	PART
30	199-05-002 Type I, Class 2	Adhesive EA9309.3NA (C021)	AR	(2)	I
31	EN6049-006-32-5	Meta-aramid fiber (Nomex)	AR		I, II
32	900004953	Lacing cord	1	(2)	I
33	CCC-C-46	Soft lint-free cloth (C011)	AR	(2)	I, II
34	P-D-680 type	Cleaning solvent Ardrox 5503 (C010)	AR	(2)	I, II
35	TT-N-95-B	Aliphatic Naphtha (C059)	AR	(2)	I, II
36	TT-M-261	Methyl-Ethyl-Ketone (C005)	AR	(2)	I, II
37	Commercial	Gloves	AR	(2)	I, II
38	Commercial	Toluol (C040)	AR	(2)	I, II
39	Commercial	Isopropyl alcohol (C039)	AR	(2)	I, II

Refer also to IPD for the spares materials required to comply with the AMP DMs 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
139-463L1	1		Dort I
3G2490LXXXXX	1	(1)	Pant
139-463L2	1		Part II

NOTE

- (1) The P/N is not properly completed because it is depending on the helicopter configuration. Customers must contact AW139 Product Support Engineering (<u>engineering.support.lhd@leonardocompany.com</u>) to request the new auxiliary CB panel at least three months in advance from the scheduled application of this Service Bulletin.
- (2) To be furnished as local supply.

B. SPECIAL TOOLS

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

#	P/N	DESCRIPTION	Q.TY	NOTE	PART
40	Commercial	Multimeter	1	(B1)	
41	110-6B	Electrical power supply (28 VDC) (BB-01-00)	1	(B2)	
42	Commercial	Laptop	1	(B1)	
43	728-1173/60	CD configuration (RD-12-00)	1		
44	728-1173/03	Operative software (RD-13-00)	1		
45	3G4605G00131	Dedicated cable (GJ-45-00)	1		

SPECIAL TOOLS NOTE



- (B1) To be furnished as local supply.
- (B2) P/N GB713-045-700 may be supplied as alternative.

C. INDUSTRY SUPPORT INFORMATION

Customization.

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3. ACCOMPLISHMENT INSTRUCTIONS

GENERAL NOTES

- a) Place an identification tag on all components that are re-usable, including the attaching hardware that has been removed to gain access to the modification area and adequately protect them until their later re-use.
- b) Shape the cables in order to prevent interference with the structure and the other existing installations, using where necessary suitable lacing cords.
- c) Exercise extreme care during drilling operations to prevent instruments, cables and hoses damage.
- d) After drilling, remove all swarf and sharp edges.
 Apply on bare metal a light film of primer unless the hole is used for ground connection.
- e) Protect properly all those equipment not removed from area affected by the modification during installation procedure.
- f) During the installation of bonding braids or components requiring grounding, clean the surface structure in order to obtain a good ground contact.
- g) Use aliphatic naphtha to degrease. Cleaned surfaces shall be allowed to air dry for at least 30 minutes before bonding.
- h) Let adhesive cure at room temperature for at least
 24 hours unless otherwise specified.
- i) 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-52-44-03-00A-540A-A, open the access door 213AL.
- 3. In accordance with AMP DM 39-A-52-44-01-00A-520A-A, remove the access panels 131AL and 132AR.



- 4. In accordance with AMP DM 39-A-25-82-03-00A-520A-A, remove the left hinged lining panel.
- 5. In accordance with AMP DM 39-B-31-11-02-00A-520A-A, remove the top cover instrument panel.
- 6. With reference to Figure 2, gain access to the area affected by the installation and perform the Central display Sirio Panel structural provision P/N 3G5310A48612 as described in the following procedure:
 - 6.1 With reference to Figure 2 detail B, perform the indicated cut-out on the instrument panel assy P/N 3G3110A00138.
 - 6.2 With reference to Figure 2 view A-A and detail B, temporarily locate cover plate P/N 3G5311A06251 and countermark positions of n°4 holes.
 - 6.3 With reference to Figure 2 section C-C, perform n°4 holes Ø5.51÷5.64.
 - 6.4 With reference to Figure 2 section C-C, install n°4 nut plates P/N MS21073L3 by means of n°8 rivets P/N MS20426AD3.

NOTE

Perform the following step only if Part II of this Service Bulletin is not intended to be performed consequently to Part I. (REF. step 6.5)

- 6.5 With reference to Figure 2 view A-A, install cover plate P/N 3G5311A06251 by means of n°4 screws P/N MS35215-58 and n°4 washers P/N NAS620C10LP.
- 7. With reference to Figures 3, 4, 6 and 7, perform the Central display Sirio Panel electrical provision P/N 4G4630A00612 as described in the following procedure:
 - 7.1 With reference to Figure 4 view C-C locations n°1, 2 and 3, install n°3 electrical supports P/N AW001CL001-N6 at shown positions by means of adhesive Hysol EA9309.3NA (C021).

<u>NOTE</u>

Use sleeve P/N A582A32 where protection against chafing is required and where contact with structure may occur.(Ref. Step 7.2)

- 7.2 With reference to Figures 3 and 4, lay down the following cable assemblies:
 - 3G9A01A33401 display Sirio Panel C/A A1A334;
 - 3G9B01A40401 display Sirio Panel C/A B1A404.
- 7.3 With reference to Figure 3, to Figure 6 wiring diagram and to Figure 8, perform the electrical connection of cable Assy B1A404 between circuit breaker panel connector PL1P5 pin V and pin U and sectioning connector J119 pin X and pin N. Use electrical contact P/N M39029/56-352 for pin N of J119 and electrical contact

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P/N M39029/56-351 for pin X of J119. Use electrical contact P/N M39029/58-364 for pin U of PL1P5 and electrical contact P/N M39029/58-364 for pin V of PL1P5.

- 7.4 With reference to Figure 3, to Figure 6 wiring diagram and to Figure 8, perform the electrical connection of cable Assy A1A334 between sectioning connector P119 and central display connector A278P3 and between central display connector A278P2 and CE161.
- 7.5 With reference to Figure 3, to Figure 7 wiring diagram and to Figure 8, perform the electrical connection of cable Assy A1A334 between central display connector A278P3 and terminal boards TB143/2, TB129/4 and TB129/1 and between central display connector A278P1 and CE162.

NOTE

Perform the following step only if Part II of this Service Bulletin is not intended to be embodied immediately after Part I. (Ref. Step 8).

- 8. With reference to Figure 4 Detail A and view C-C, protect and stow the cable assemblies connectors A278P1, A278P2 and A278P3 as described in the following procedure:
 - 8.1 Apply the applicable protective cap P/N MS90376-16R on the connector assembly location n°2.
 - 8.2 Apply n°2 applicable protective cap P/N MS90376-20R on the connector assemblies locations n°1 and n°3.
 - 8.3 Cover with Nomex fibres sleeve P/N A582A32 and use tie straps P/N 900004953 to firmly tie down the sleeve on the connector.
 - 8.4 Fasten the connector with tie straps.
 - 8.5 Fasten the cable assemblies to the indicated supports.

<u>NOTE</u>

Customer must contact AW139 PSE 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. (Ref Step 9).

- 9. Modify the Auxiliary C/B panel on the overhead panel, as described in the following procedure:
 - 9.1 With reference to AMP DM 39-A-24-91-04-00A-920A-K, remove from the Overhead C/B panel the existing integrally-lighted panel and install the new integrally-lighted panel P/N 3G2490LXXXXX.
 - 9.2 Install one circuit breaker P/N MS3320-5 in the position indicated as COM 3 on the new integrally-lighted panel P/N 3G2490LXXXXX; apply decal



P/N ED300CB346 in an adjacent area.

- 9.3 With reference to Figure 6, perform electrical connections between circuit breaker CB346 pin 2 and connector of overhead circuit breaker panel PL1J5 pin V by means of A556AT16 wire. Use terminal lug P/N MS25036-153 for pin 2 of CB346 and electrical contact P/N M39029/56-352 for pin V of PL1J5. Connect CB346 to 28V DC MAIN BUS 2.
- 9.4 With reference to Figure 6, perform electrical connection between the TB504 pin J and the panel PL1J5 pin U by means of A556AT16 wire. Use electrical contact P/N M39029/56-352 for pin U of PL1J5 and 001104-203-02 for terminal board TB504 pin J.
- 10. Perform a pin-to-pin continuity check of all the electrical connections made.
- 11. In accordance with AMP DM 39-A-52-44-01-00A-720A-A, re-install the access panel 131AL and 132AR.
- 12. In accordance with AMP DM 39-A-25-82-03-00A-720A-A, re-install the left hinged lining panel.
- 13. In accordance with AMP DM 39-B-31-11-02-00A-720A-A, re-install the top cover instrument panel.
- 14. In accordance with AMP DM 39-A-52-44-03-00A-740A-A, close the access door 213AL.
- 15. In accordance with weight and balance changes, update the Chart A (see Rotorcraft Flight Manual, Part II, section 6).
- 16. Return the helicopter to flight configuration and record for compliance with Part I of this Service Bulletin on the helicopter logbook.
- 17. Send the attached compliance form to the following mail box:

engineering.support.lhd@leonardocompany.com

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



<u>PART II</u>

- 1. In accordance with AMP DM DM0139-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-B-31-11-02-00A-520A-A, remove the top cover instrument panel.
- 3. With reference to Figure 5, perform the Central display SIRIO panel equipment installation P/N 4G4630A00711 as described in the following procedure:

NOTE

Perform the following steps 3.1 and 3.2 only if Part II of this Service Bulletin has not been embodied immediately after Part I. Otherwise skip to step 3.3.

- 3.1 With reference to Figure 2 view A-A, remove cover plate P/N 3G5311A06251 and retain for later reuse n°4 screws P/N MS35215-58 and n°4 washers P/N NAS620C10LP.
- 3.2 With reference to Figure 5 detail A and view looking instrument panel, prepare the connectors A278P1, A278P2 and A278P1 as described in the following procedure:
 - 3.2.1 Remove the connectors from their supports.
 - 3.2.2 Remove the Nomex fiber sleeves P/N A582A32 from the connectors.
 - 3.2.3 Remove the protective cap P/N MS90376-16 and n°2 protective caps P/N MS90376-20 from the connectors.
- 3.3 In accordance with AMP DM 39-U-46-32-01-00A-720A-A and with reference to Figure 5, install the central display SIRIO panel P/N 727-0912/30 by means of previously removed n°4 screws P/N MS35215-58 and n°4 washers P/N NAS620C10LP.
- 3.4 In accordance with AMP DM 39-A-11-00-01-00A-720A-A and with reference to Figure 5 view looking instrument panel, install in a visible area adjacent to the central display the decal P/N ED300A278.
- 4. Perform a pin-to-pin continuity check of all the electrical connections made.
- 5. With reference to Figure 5, perform the electrical connection of central display SIRIO panel P/N 727-0912/30 with cable assembly connectors A278P1, A278P2 and A278P3.
- 6. Perform the power supply checks as described in the following procedure:
 - 6.1 Make sure that Electrical Power Distribution System Circuit Breakers are pulled in except for IGN #1/2, START #1/2, VIDEO CAMERAS, FLIR, DIGITAL MAP,



METEO/SEARCH RADAR.

- 6.2 In accordance with 39-A-12-41-00-00A-710A-A, the helicopter external power port shall be connected to the External Power Bench set to 28V DC output
- 6.3 Verify CENTRAL DISPLAY Circuit Breaker is pulled out and disconnect the connectors A278P1, A278P2 and A278P3.
- 6.4 Push in CENTRAL DISPLAY Circuit Breaker.
- 6.5 Verify the grounding of the pins A278P3-3, A278P3-4, A278P3-5 and A278P3-8.
- 6.6 Verify the voltage on the pins A278P3-1, A278P3-2, A278P3-6 and A278P3-7 is 28VDC, using A278P3-3 pin as negative pole.
- 7. Perform the bonding measurement and make sure that the value of resistance doesn't exceed the limit of 10 m Ω .
 - 7.1 If the resistance value is not in the limit perform the step 7.3.
 - 7.2 If the bonding measurement value of resistance doesn't exceed the limit of 10 m Ω go to step 7.4.
 - 7.3 If the resistance value is not in the limit, perform following check:
 - 7.3.1 Make sure that the Central Display is installed correctly and bonded to the structure correctly.
 - 7.3.2 Make sure that there is no corrosion in the installation area.
 - 7.3.3 Perform again step 7.
 - 7.4 Pull out CENTRAL DISPLAY Circuit Breaker.
 - 7.5 Reconnect connectors A278P1, A278P2 and A278P3.
 - 7.6 Push in CENTRAL DISPLAY, VIDEO CAMERAS, FLIR, DIGITAL MAPS and RADAR circuit breakers.
- 8. In accordance with AMP DM 39-U-46-32-01-00A-720A-A, perform the central display SIRIO panel system operational check.
- 9. In accordance with AMP DM 39-A-12-41-00-00A-510A-A disconnect external electric power from the A/C.
- 10. In accordance with AMP DM 39-B-31-11-02-00A-720A-A, re-install the top cover instrument panel.
- 11. In accordance with weight and balance changes, update the Chart A (see Rotorcraft Flight Manual, Part II, section 6).
- 12. Return the helicopter to flight configuration and record for compliance with Part II of this Service Bulletin on the helicopter logbook.
- 13. Send the attached compliance form to the following mail box:

engineering.support.lhd@leonardocompany.com

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







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OUTBRD

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DETAIL D

Figure 3

CONTINUED ON FIGURE 4





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Cable Assy	From Ref Des	Pin n°	Electrical Contact	To Ref Des	Pin n°	Electrical Contact
	A278P1	9	M39029/56-348	CE162	*	//
	A278P2	20	M39029/56-348	CE161	*	//
		1	M39029/56-348	SP1386	*	//
	437003	2	M39029/56-348	SP1387	*	//
	A278P3	5	M39029/56-348	SP1418	*	//
		8	M39029/56-348	SP1419	*	//
A1A334	CP102	а	A523A-A02	A278P3	15	M39029/56-348
	CR192	k	A523A-A02	TB143/2	f	A523A-A01
	SP1386	*	//	P119	Х	M39029/58-363
		*	//	A278P3	6	M39029/56-348
	SP1387	*	//	SP1386	*	//
		*	//	A278P3	7	M39029/56-348
		*	//	P119	Ν	M39029/58-364
	SP1418	*	//	SP1419	*	//
		*	//		4	M39029/56-348
	SP1419	*	//	A278P3	3	M39029/56-348
	TB129/1	Ν	A523A-A02		38	M39029/56-348
	TB129/4	S	A523A-A01	A278P3	16	M39029/56-348
D1 A 4 O 4	1110	N	M39029/56-352		U	M39029/58-364
B1A404	1113	Х	M39029/56-351	PLIP5	V	M39029/58-364





Please send to the following address: LEONARDO S.p.A. CUSTOMER SUPPORT & SERVICES - ITALY PRODUCT SUPPORT ENGINEERING & LICENSES DEPT. Via Giovanni Agusta. 520		SERVICE BULLETIN COMPLIANCE FORM Date:				
		Number:				
21017 Cascina Costa di Samarate (VA) - ITALY Tel.: +39 0331 225036 Fax: +39 0331 225988		Revision:				
Customer Name and Addre			Telephone:			
				Fax:		
				B.T. Compli	ance Date:	
Helicopter Model	S/N		Total N	umber	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.