
SERVICE BULLETIN

N° 139-726

DATE: August 3, 2022

REV. : /

TITLE

ATA 31 – MODULAR AVIONIC UNIT (MAU) MARKING

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

AW139 helicopters from S/N 41801 to S/N 41806.

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 mark the MAU P/N and S/N to be compliant to latest design.

E. DESCRIPTION

This Service Bulletin provides information on how to mark the P/N and S/N of the MAU in order to be compliant with the relative design.

The marking consists in modifying the MAU plates or in replacing them.

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 two (2) MMH are deemed necessary.

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

H. WEIGHT AND BALANCE

N.A.

I. REFERENCES

1) PUBLICATIONS

Following Data Modules refer to AMP:

<u>DATA MODULE</u>	<u>DESCRIPTION</u>	<u>PART</u>
DM01 39-A-00-20-00-00A-120A-A	Helicopter on ground for a safe maintenance.	-
DM02 39-A-06-41-00-00A-010A-A	Access doors and panels - General data.	-

2) ACRONYMS & ABBREVIATIONS

AMDI	Aircraft Material Data Information
AMP	Aircraft Maintenance Publication
DM	Data Module
DOA	Design Organization Approval
EASA	European Aviation Safety Agency
IPD	Illustrated Part Data
LH	Leonardo Helicopters
MAU	Modular Avionic Unit
MMH	Maintenance Man Hours
P/N	Part Number
S/N	Serial Number

3) ANNEX

N.A.

J. PUBLICATIONS AFFECTED

N.A.

K. SOFTWARE ACCOMPLISHMENT SUMMARY

N.A.

2. MATERIAL INFORMATION

A. REQUIRED MATERIALS

1) PARTS

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
1	3G4600A00622		MAU INSTALLATION	REF	.		-
2	3G4600A00137		MAU1 ASSY	REF	..		-
3	A148A001B1		Plate	1	...		-
4	3G4600A00235		MAU2 ASSY	REF	..		-
5	A148A001B1		Plate	1	...		-

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

2) CONSUMABLES

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

3) LOGISTIC MATRIX

N.A.

B. SPECIAL TOOLS

N.A.

C. INDUSTRY SUPPORT INFORMATION

Configuration change.

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) Let adhesive cure at room temperature for at least 24 hours unless otherwise specified.
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 DM 39-A-06-41-00-00A-010A-A and with reference to Figure 1, remove all external panels, internal panels and internal liners as required to gain access to the area affected by the installation and perform MAU installation P/N 3G4600A00622 as described in the following procedure:
 - 2.1 With reference to Figure 1 perform MAU1 assy P/N 3G4600A00137 installation as described in the following procedure:

NOTE

Perform the following step only if the old plate is NOT to be replaced with the new one.

- 2.1.1 With reference to Figure 1 View B, mark the new P/N 3G4600A00137 and mark the S/N of the installed MAU followed by "/1" on the existing plate.

NOTE

Perform the following steps from 2.1.2 thru 2.1.4 only if the old plate needs to be replaced with the new one.

- 2.1.2 With reference to Figure 1 View B, remove the existing plate from the MAU cabinet.
- 2.1.3 With reference to Figure 1 View B, install the plate P/N A148A001B1 on the MAU cabinet.
- 2.1.4 With reference to Figure 1 View B, record the P/N 3G4600A00137 and the S/N of the installed MAU followed by "/1" on the new plate P/N A148A001B1.

- 2.2 With reference to Figure 1 perform MAU2 assy P/N 3G4600A00235 installation as described in the following procedure:

NOTE

Perform the following step only if the old plate is NOT to be replaced with the new one.

- 2.2.1 With reference to Figure 1 View D, mark the new P/N 3G4600A00235 and mark the S/N of the installed MAU followed by “/1” on the existing plate.

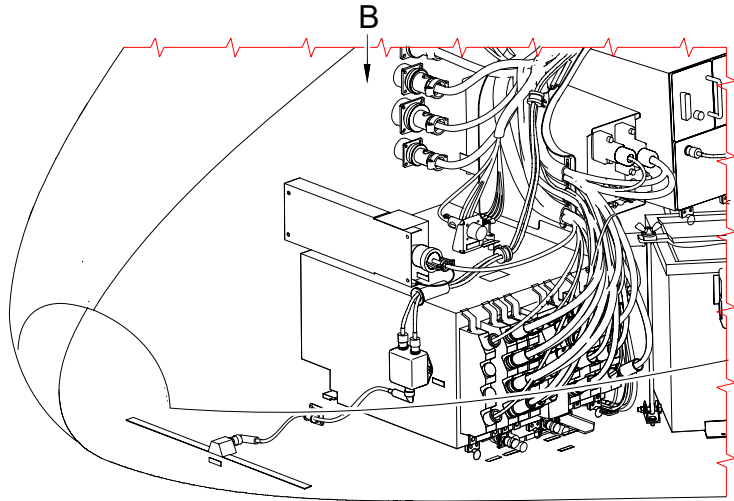
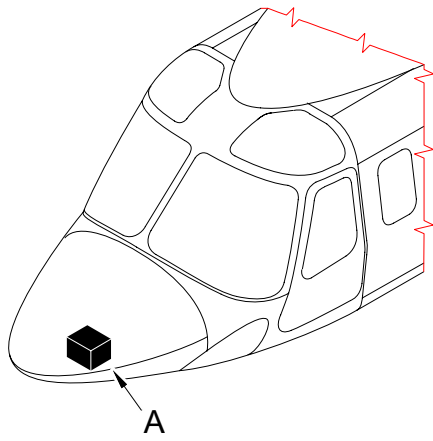
NOTE

Perform the following steps from 2.2.2 thru 2.2.4 only if the old plate needs to be replaced with the new one.

- 2.2.2 With reference to Figure 1 View D, remove the existing plate from the MAU cabinet.
 - 2.2.3 With reference to Figure 1 View D, install the plate P/N A148A001B1 on the MAU cabinet.
 - 2.2.4 With reference to Figure 1 View D, record the P/N 3G4600A00235 and the S/N of the installed MAU followed by “/1” on the new plate P/N A148A001B1.
3. In accordance with AMP DM 39-A-06-41-00-00A-010A-A re-install all external panels, internal panels and liners previously removed.
 4. Return the helicopter to flight configuration and record for compliance with this Service Bulletin on the helicopter logbook.
 5. Send the attached compliance form to the following mail box:

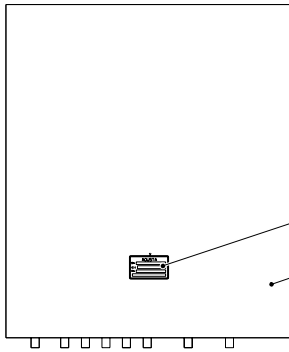
engineering.support.lhd@leonardo.com

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



VIEW A

STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE



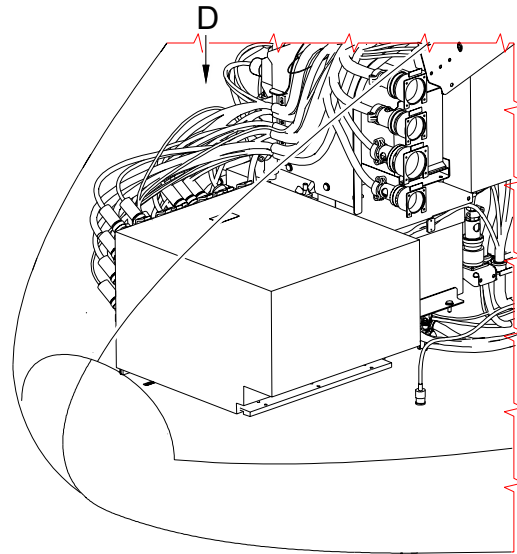
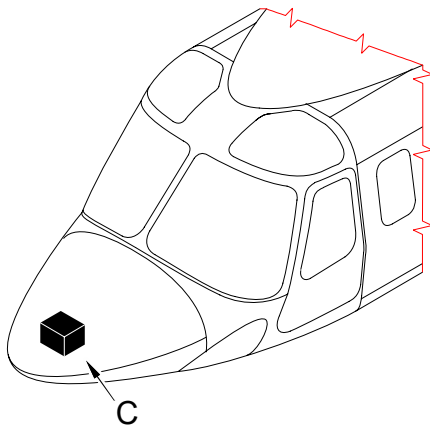
REMOVE:
EXISTING PLATE
INSTALL:
A148A001B1 PLATE

MAU CABINET (REF)



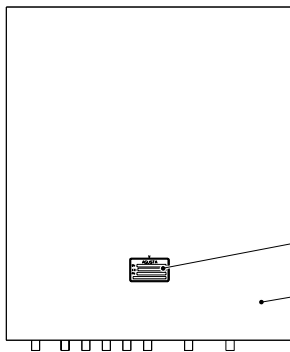
REMARK THE S/N OF THE INSTALLED MAU
FOLLOWED BY "/1" ON THE PLATE

VIEW B



VIEW C

STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE



REMOVE:
EXISTING PLATE
INSTALL:
A148A001B1 PLATE

MAU CABINET (REF)



REMARK THE S/N OF THE INSTALLED MAU
FOLLOWED BY "/1" ON THE PLATE

VIEW D

Figure 1

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

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

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

Remarks:

Information:

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