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SERVICE BULLETIN

N° **189-397**

**EMERGENCY ALERT**

DATE: August 1, 2024

REV. : /

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**TITLE**

**ATA 53 – STA5700 FRAME INSPECTION**

**REVISION LOG**

First Issue

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

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## **1. PLANNING INFORMATION**

### **A. EFFECTIVITY**

All AW189 helicopters.

### **B. COMPLIANCE**

For helicopters with 14765 landings or more:

#### **NOTE**

The minimum number of flights necessary to reach the nearest suitable maintenance station, are allowed.

During such flights, no passengers are allowed onboard.

Before next flight after the issue of this Service Bulletin. Then every 1160 landings after the previous inspection.

For helicopters with less than 14765 landings:

Within 14765 landings total. Then every 1160 landings after the previous inspection.

### **C. CONCURRENT REQUIREMENTS**

N.A.

### **D. REASON**

This Service bulletin is issued to introduce, waiting for the update of the relevant technical publication, a recurring mandatory inspection on the frame STA 5700 near the MLG attaching points.

This SB will require an inspection in the lower part of the STA 5700 frame, to be performed immediately for all the helicopters that already reached the calculated limit of landings. The inspection will then be repeated every 1160 landings after the first inspection.

### **E. DESCRIPTION**

This Service Bulletin gives instructions to perform a visual inspection of the LH and RH STA5700 frames in the area of the MLG attaching points and to report possible findings to the manufacturer.

### **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 approximately five (5) MMH are deemed necessary.

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

## H. WEIGHT AND BALANCE

N.A.

## I. REFERENCES

### I.1 PUBLICATIONS

Following Data Modules refer to AMP:

<u>DATA MODULE</u>	<u>DESCRIPTION</u>	<u>PART</u>
DM01 89-A-00-20-00-00A-120A-A	Helicopter on ground for a safe maintenance.	-
DM02 89-A-06-41-00-00A-010A-A	Access doors and panels - General data	-

### I.2 ACRONYMS & ABBREVIATIONS

AMDI	Aircraft Material Data Information
AMP	Aircraft Maintenance Publication
DM	Data Module
DOA	Design Organization Approval
EASA	European Aviation Safety Agency
LH	Leonardo Helicopters
MLG	Main Landing Gear

MMH Maintenance Man Hours

P/N Part Number

S/N Serial Number

### **I.3 ANNEX**

Annex A DM 89-A-53-10-00-00J-31AC-A – “Forward section - Left/right frame  
at STA 5700 - Detailed inspection”

## **J. PUBLICATIONS AFFECTED**

AW189 Aircraft Maintenance Planning Information (AMPI)

AW189 Aircraft Maintenance Publication (AMP)

## **K. SOFTWARE ACCOMPLISHMENT SUMMARY**

N.A.

## **2. MATERIAL INFORMATION**

### **A. REQUIRED MATERIALS**

#### **A.1 PARTS**

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

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

#### **A.2 CONSUMABLES**

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

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

#### **A.3 LOGISTIC MATRIX**

N.A.

### **B. SPECIAL TOOLS**

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

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

### **C. INDUSTRY SUPPORT INFORMATION**

N.A.

### **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) All lengths are in mm.
1. In accordance with AMP DM 89-A-00-20-00-00A-120A-A, prepare the helicopter on ground for a safe maintenance. Disconnect the battery, all electrical power sources and/or the external power supply.
  2. In accordance with AMP DM 89-A-06-41-00-00A-010A-A and with reference to Annex A, get access to the MLG attaching area on the STA5700 frame.
  3. In accordance with procedure in Annex A, perform the inspection of the STA5700 frame for cracks and damages.
  4. In case of findings, take pictures of the damage and send it to Leonardo Helicopters at the following mail box for damage evaluation and to receive repair instructions:  
[engineering.support.lhd@leonardo.com](mailto:engineering.support.lhd@leonardo.com)
  5. Return the helicopter to flight configuration and record for compliance with this Service Bulletin on the helicopter logbook.
  6. Gain access to My Communications section on Leonardo WebPortal and compile the "Service Bulletin Application Communication".  
As an alternative, send the attached compliance form to the following mail box:  
[engineering.support.lhd@leonardo.com](mailto:engineering.support.lhd@leonardo.com)  
and (for North, Central and South America) also to:  
[AWPC.Engineering.Support@leonardocompany.us](mailto:AWPC.Engineering.Support@leonardocompany.us)

# **ANNEX A**

**DM 89-A-53-10-00-00J-31AC-A**

**FORWARD SECTION - LEFT/RIGHT FRAME AT STA 5700 -  
DETAILED INSPECTION**

## Forward section - Left/right frame at STA 5700 - Detailed inspection

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## References

*Table 1 References*

Data Module	Title
89-A-00-20-00-00A-120A-A	Helicopter safety - Pre-operation (make helicopter safe for maintenance)
89-A-00-50-00-01A-077A-D	Lint-free cloth (C011) - Data sheet for consumables and materials
89-A-00-50-00-10A-074A-D	Cleaning solvent (C010) - Data sheet for dangerous consumables and materials
89-A-06-30-00-00A-010A-A	Zones and areas - General data
89-A-06-41-00-00A-010A-A	Access doors and panels - General data



*Table 1 References*

Data Module	Title
89-A-ZZ-00-00-00A-066A-A	Local supply support equipment and tools - Support equipment and tools data

*Table 2 Access points*

Access Panel / Door Id	Data Module
224D, 225E	89-A-06-41-00-00A-010A-A

*Table 3 Zones*

Zone ID	Data Module
220	89-A-06-30-00-00A-010A-A

## Preliminary Requirements

### Required Conditions

*Table 4 Required Conditions*

Conditions	Data Module/Technical Publication
The helicopter must be safe for maintenance.	89-A-00-20-00-00A-120A-A
The access panels 224D and 225E must be removed.	89-A-06-41-00-00A-010A-A

### Support Equipment

*Table 5 Support Equipment*

Nomenclature	Identification No.	Qty
10-power magnifying glass	ZZ-00-00	1
Mirror	ZZ-00-00	1
Light source	ZZ-00-00	1

### Supplies

*Table 6 Supplies*

Nomenclature	Identification No.	Qty
Cleaning solvent	C010	AR

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Table 6 Supplies

Nomenclature	Identification No.	Qty
Lint-free cloth	C011	AR

## Spares

Table 7 Spares

Nomenclature
No Spares

## Safety Conditions

### WARNING

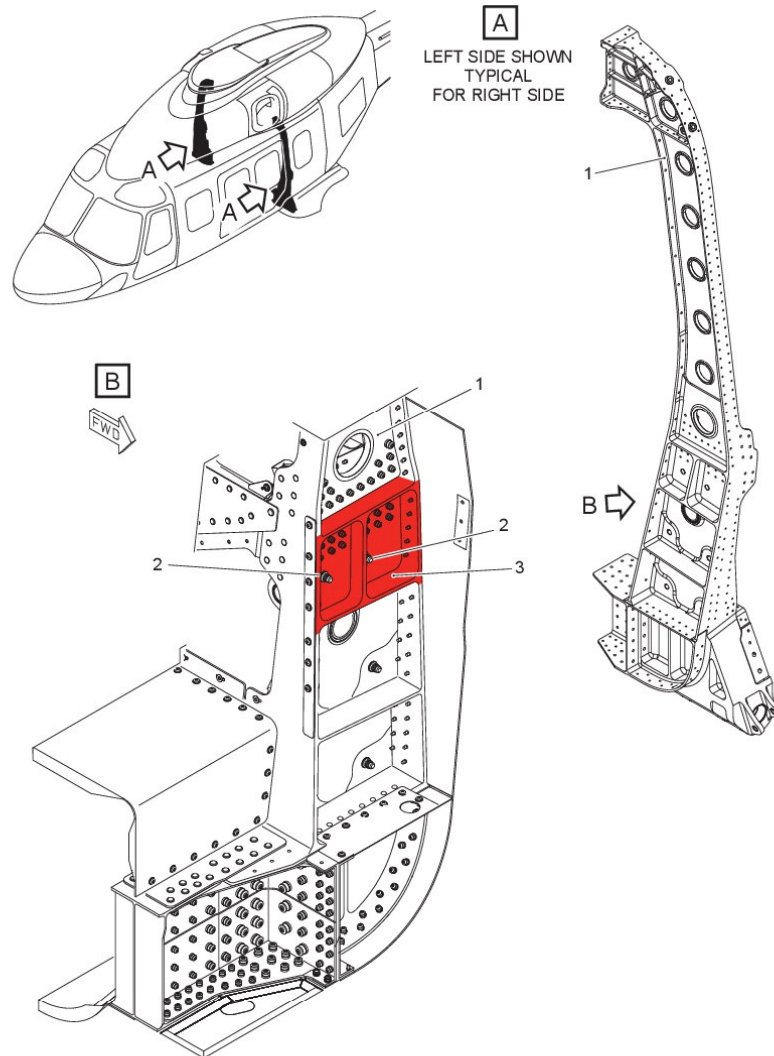
The **Cleaning solvent (C010)** is a dangerous material. Before you do this procedure, make sure that you know all the safety precautions and first aid instructions for the solvent.

### **Procedure**

- 1 During this inspection use the 10-power magnifying glass (ZZ-00-00) , the Mirror (ZZ-00-00) and the Light source (ZZ-00-00) .
- 2 Get access to the left frame (1, Figure 1) at the STA 5700 in the passenger cabin.
- 3 Clean the accessible areas of the left frame (1) with the Lint-free cloth (C011) and the Cleaning solvent (C010) .
- 4 Examine for cracks the areas (3) shown in Figure 1. When you do this pay particular attention to the ribs and to the two holes of the attaching parts (2) of the main landing-gear support.
- 5 Tell the Manufacture if you found cracks.
- 6 Do again the step 2 thru step 5 for the right frame at the STA 5700.

### **Requirements After Job Completion**

- 1 Remove all the tools and the other items from the work area. Make sure that the work area is clean.
- 2 Install the access panels 224D and 225E. Refer to 89-A-06-41-00-00A-010A-A



ICN-89-A-531000-G-00001-20686-A-001-01

Figure 1 Forward section - Left/right frame at STA5700 - Detailed inspection

End of Data Module

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