
SERVICE BULLETIN

N° **189-375**

RECOMMENDED

DATE: June 14, 2023

REV. : /

TITLE

ATA 62 - MR SPLITTED SWASHPLATE BOOT REPLACEMENT

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 AW 189 helicopters from S/N 49007 thru S/N 49103 (S/N's 49024, 49036, 49040, 49041 excluded), from S/N 89001 thru S/N 89015 (S/N's 89005 and 89006 excluded) and from S/N 92001 to S/N 92010, equipped with MR swashplate boot splitted P/N 3G6230A06231.

B. COMPLIANCE

NOTE

The compliance time is subject to the same tolerances as per AMPI Chap. 05 DM 89-A-05-11-00-00A-028E-P Inspection/task interval tolerances – General.

At the first MR head removal after the issue of this Service Bulletin.

LH recommends the implementation of this SB in accordance with the indicated compliance time, with related tolerances as applicable. It is the Operator's responsibility to properly plan and execute the SB application i.a.w. LH recommendations. The Operator remains liable for any deviation.

C. CONCURRENT REQUIREMENTS

N.A.

D. REASON

LH received a report of a few "MR swashplate boot splitted" P/N 3G6230A06231 still installed on AW189 helicopters, nevertheless this component is no more available for the AW189 configuration. This SB has been issued in order to remove from the affected helicopters the splitted boot and to install the boot P/N 3G6230V00251.

LH issued this SB for the following reason:

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

E. DESCRIPTION

This Service Bulletin is issued in order to provide the necessary instruction on how to replace the “MR swashplate boot splitted” P/N 3G6230A06231 with boot P/N 3G6230V00251.

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 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	-
DM03 89-A-62-31-03-00A-520A-A	Adapter – Remove procedure	-

<u>DATA MODULE</u>	<u>DESCRIPTION</u>	<u>PART</u>
DM04 89-A-62-31-04-00A-720A-A	Swashplate boot – Install procedure.	-

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
MMH	Maintenance Man Hours
P/N	Part Number
S/N	Serial Number

I.3 ANNEX

N.A.

J. PUBLICATIONS AFFECTED

N.A.

K. SOFTWARE ACCOMPLISHMENT SUMMARY

N.A.

2. MATERIAL INFORMATION

A. REQUIRED MATERIALS

A.1 PARTS

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
1	3G6230V00251		Swashplate boot	1	.	-	-

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

A.2 CONSUMABLES

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

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.

C. INDUSTRY SUPPORT INFORMATION

Owners/Operators who comply with the instructions of this Service Bulletin no later than the applicable date in the “Compliance” section will be eligible to receive REQUIRED MATERIALS on free of charge basis, except for Consumable Materials and Special Tools.

NOTE: Customers who fail to comply with the instructions in this Service Bulletin before the compliance date are not eligible for the aforementioned special policy.

Please Issue relevant MMIR form including pictures to your Warranty Administration Dpt. including pictures required in “Accomplishment Instruction” section.

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.

NOTE

- The main rotor head should be already removed from the helicopter.
 - The MR boot P/N can be found on a raised silicone pad as shown in Figure 1 View A.
2. In accordance with AMP DM 89-A-06-41-00-00A-010A-A and with reference to Figure 1, get access to the MR swashplate boot area. Take a picture of the MR boot splitted installation with P/N in view to add to MMIR. Remove the boot P/N 3G6230A06231 in accordance with the following procedure:
 - 2.1 In accordance with applicable steps of AMP DM 89-A-62-31-03-00A-520A-A and with reference to Figure 1, cut and remove the safety wire from the upper clamp. Discard the wire. Remove the clamp that attaches the swashplate boot to the adapter assy P/N 4F6230A03131.
 - 2.2 In accordance with AMP DM 89-A-62-31-03-00A-520A-A, remove the adapter assy P/N 4F6230A03131.
 - 2.3 With reference to Figure 1, cut and remove the safety wire from the lower clamp. Discard the wire. Remove the clamp that attaches the swashplate boot swashplate.
 - 2.4 With reference to Figure 1 Detail C, remove the tape and lift the overlap from the swashplate boot. Use a plastic scraper to get an aid to remove the adhesive from the overlap also in the area of the velcro stripes. Lift the overlap until the velcro stripes disconnect.

- 2.5 With reference to Figure 1, carefully remove the swashplate boot P/N 3G6230A06231 from the swashplate. Use a plastic scraper to help you remove the sealant that bonds the swashplate boot to the adapter. Discard the swashplate boot P/N 3G6230A06231.
3. In accordance with AMP DM 89-A-62-31-04-00A-720A-A, install the swashplate boot P/N 3G6230V00251.
 4. Return the helicopter to flight configuration and record for compliance with this Service Bulletin on the helicopter logbook.
 5. Gain access to My Communications section on Leonardo WebPortal and compile the "Service Bulletin Application Communication".

As an alternative, send the attached compliance form to the following mail box:

engineering.support.lhd@leonardo.com

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

AWPC.Engineering.Support@leonardocompany.us

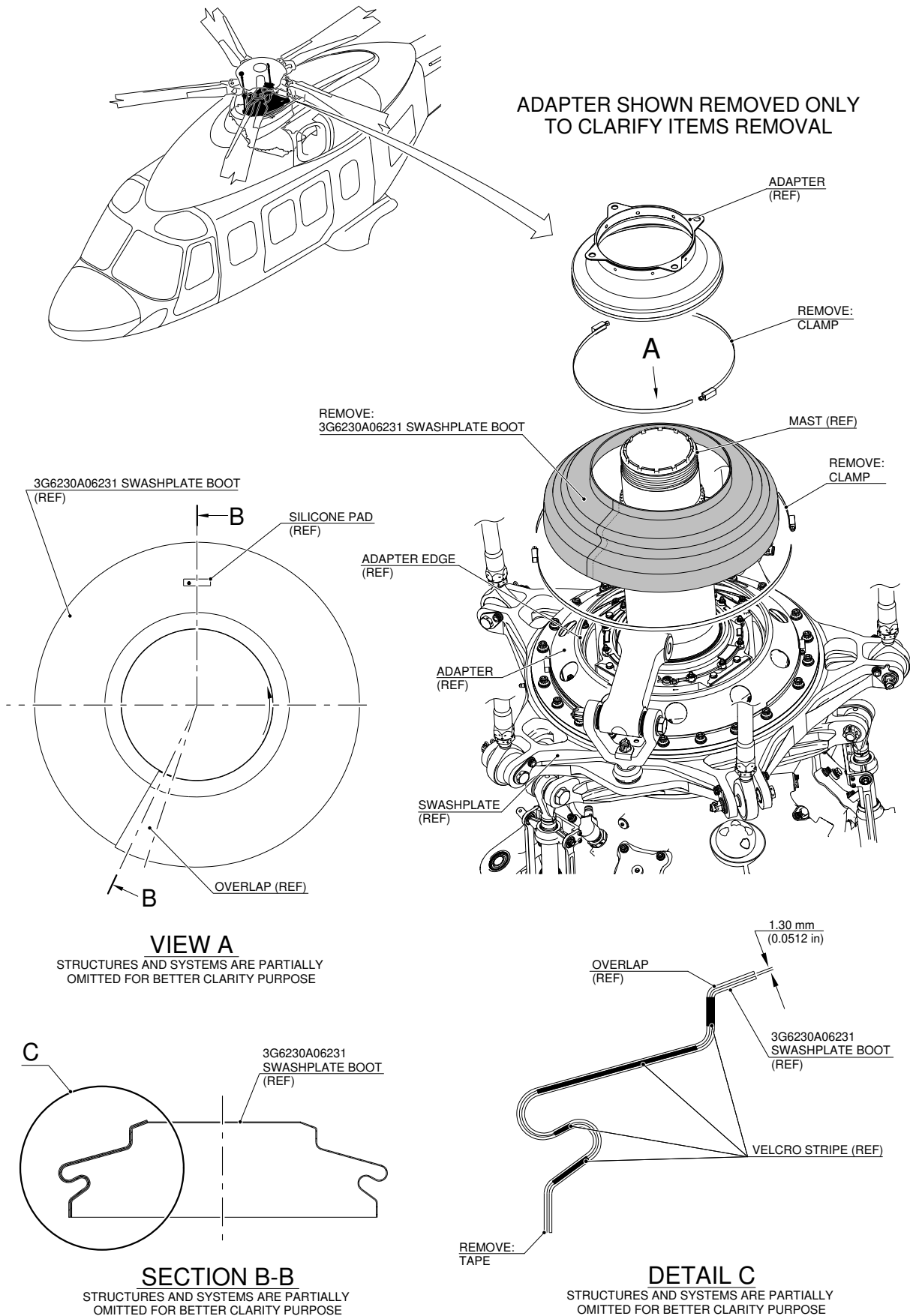


Figure 1

S.B. N°189-375 RECOMMENDED
DATE: June 14, 2023
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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.					