
SERVICE BULLETIN

N° 189-116

DATE: March 7, 2023

REV. : /

TITLE

ATA 32 - LANDING GEAR CONTROL PANEL 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 AW189 helicopters equipped with Landing Gear Control Panel (LGCP) P/N 8G3230V00132 or P/N 8G3230V00133.

B. COMPLIANCE

Within 2 years after the issue of this Service Bulletin.

C. CONCURRENT REQUIREMENTS

N.A.

D. REASON

This Service Bulletin is issued in order to provide the necessary instructions on how to replace the LGCP P/N 8G3230V00132 or P/N 8G3230V00133 with the LGCP P/N 8G3230V00134.

E. DESCRIPTION

This Service Bulletin introduces on in service helicopters the new LGCP P/N 8G3230V00134. The new LGCP is equipped with the wire break detection function for the Landing Gear Proximity Switch (LGPS). This function can sense the conditions of MLG LH Down Locked, MLG RH Down Locked and NLG Down Locked. With this function when a proximity sensor is not powered or is broken or one of the three connections is lost, the green indication on the corresponding front panel undercarriage status annunciator remains off.

The new LGCP have identical mechanical and electrical interface with the helicopter and have also an identical interface to the pilot and control with respect to the old P/N.

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 twenty (20) 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 89-A-00-20-00-00A-120A-A	Helicopter on ground for a safe maintenance.	-
DM01 89-A-32-31-01-00A-520A-A	Landing Gear Control Panel - Remove procedure	-
DM02 89-A-32-31-01-00A-720A-A	Landing Gear Control Panel - Install procedure	-

2) ACRONYMS & ABBREVIATIONS

AMD I	Aircraft Material Data Information
AMP	Aircraft Maintenance Publication
DM	Data Module
DOA	Design Organization Approval
EASA	European Aviation Safety Agency
IPD	Illustrated Part Data
MLG	Main Landing Gear
LGCP	Landing Gear Control Panel
LGPS	Landing Gear Proximity Switch
LHD	Leonardo Helicopters Division
MLG	Main Landing Gear
MMH	Maintenance-Man-Hours
NLG	Nose Landing Gear

3) ANNEX

N.A.

J. PUBLICATIONS AFFECTED

AW189 Illustrated Parts Data (IPD).

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	8G3230V00134		Landing gear control panel	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

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 to your Warranty Administration Dpt.

NOTE: WRM will include RETURN MATERIAL AUTHORIZATION (RMA) number; the unit disembarked from the aircraft (LGCP P/N 8G3230V00132 or P/N 8G3230V00133) has to be returned to LHD within thirty (30) calendar days after the shipment of the replacement part. In case of missing return within thirty (30) calendar days, Customer will be invoiced for the price of the replacement part (LGCP P/N 8G3230V00132 or P/N 8G3230V00133).

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) Protect properly all those equipment not removed from area affected by the modification during installation procedure.
1. In accordance with 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-32-31-01-00A-520A-A, remove the existing LGCP from the helicopter. Do not discard the removed panel.
 3. In accordance with AMP DM 89-A-32-31-01-00A-720A-A, install the new LGCP P/N 8G3230V00134 on the helicopter.
 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".

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.					