
SERVICE BULLETIN

N° 189-333

DATE: January 31, 2023

REV. : /

TITLE

ATA 28 – FUEL PROBE POWER SUPPLY CHECK

REVISION LOG

First Issue

1. PLANNING INFORMATION

A. EFFECTIVITY

AW189 helicopters S/N 89001 to S/N 89013 (S/N's 89005 and 89006 excluded) and S/N 92001 thru S/N 92010 equipped with the fuel probes listed below.

All the fuel probes kept in stock and listed below.

P/N 8G2810V04251 from S/N 001 up to S/N 038 remarked with Issue 1;

P/N 8G2810V04351 from S/N 001 up to S/N 034 remarked with Issue 1.

B. COMPLIANCE

At first removal from helicopter of fuel probes P/N 8G2810V04251 or P/N 8G2810V04351.

NOTE

Parts kept in stock can be sent to LHD for upgrade at the first favorable occasion.

For parts kept in stock, before the first installation on the helicopter 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 instruction on how to update the fuel probes configuration at the latest standard.

E. DESCRIPTION

The supplier of the fuel probes, installed on the central fuel tank of the Extended Range AW189 helicopters, updated these items in order to improve their power supply logic in all the operative conditions. LHD issued this Service Bulletin to check the installed fuel probes and to replace the parts not already upgraded with a new one. The removed fuel probes shall be sent to LHD for upgrade. The new fuel probes are equipped with a redundant power supply board. The present configuration has no effect on the fuel supply system or on the caution / warning annunciations system.

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 89-A-00-20-00-00A-120A-A	Helicopter on ground for a safe maintenance.	-
DM02 89-B-28-41-09-00A-520A-A	Number 5 rear probe - Remove procedure	-
DM03 89-B-28-41-09-00A-720A-A	Number 5 rear probe - Install procedure	-
DM04 89-B-28-41-10-00A-520A-A	Number 5 forward probe - Remove procedure	-
DM05 89-B-28-41-10-00A-720A-A	Number 5 forward probe - Install procedure	-

2) ACRONYMS & ABBREVIATIONS

AMDI	Aircraft Material Data Information
AMP	Aircraft Maintenance Publication
DM	Data Module
DOA	Design Organization Approval
EASA	European Aviation Safety Agency
LHD	Leonardo Helicopters
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	8G2810V04251		Fuel probe	1	.	-	-
2	8G2810V04351		Fuel probe	1	.	-	-

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

2) CONSUMABLES

Refer also 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 also 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 necessary replacements 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 removed from the aircraft has to be returned to LHD as per instructions defined into LHD Information Letter GEN-15-047.

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) Exposed thread surface and nut must be protected using a layer of tectyl according to MIL-C-16173 grade I.
- c) All lengths are in mm.

NOTE

For fuel probes kept in stock, perform only Step 5 and Step 9.

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 applicable steps of DM 89-B-28-41-09-00A-520A-A, get access to the Number 5 rear fuel probe and check the S/N and the issue marked.
3. With reference to Figure 1, if the fuel probe is marked with "Issue A" no further actions are required. Skip to Step 6.

NOTE

The removed probe must be returned to LHD for upgrade.

4. With reference to Figure 1 and in accordance with AMP DM 89-B-28-41-09-00A-520A-A, if the fuel probe is marked with "Issue 1" remove the probe P/N 8G2810V04351 from the helicopter.
5. With reference to AMP DM 89-B-28-41-09-00A-720A-A; install a new fuel probe P/N 8G2810V04351 marked with "Issue A" or with S/N not listed in the "Effectivity" section of this SB.
6. In accordance with applicable steps of DM 89-B-28-41-10-00A-520A-A, get access to the Number 5 forward fuel probe and check the S/N and the issue marked.
7. With reference to Figure 1, if the fuel probe is marked with "Issue A" no further actions are required. Skip to Step 10.

NOTE

The removed probe must be returned to LHD for upgrade.

8. With reference to Figure 1 and in accordance with AMP DM 89-B-28-41-10-00A-520A-A, if the fuel probe is marked with "Issue 1" remove the probe P/N 8G2810V04251 from the helicopter.
9. With reference to AMP DM 89-B-28-41-10-00A-720A-A, install a new fuel probe P/N 8G2810V04251 marked with "Issue A" or with S/N not listed in the "Effectivity" section of this SB.
10. Return the helicopter to flight configuration and record for compliance with this Service Bulletin on the helicopter logbook.
11. 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".



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.				