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**SERVICE BULLETIN**

**N° 189-276**

**DATE:** May 27, 2021

**REV. :** /

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**TITLE**

**ATA 67 - COPILOT COLLECTIVE STICK CHECK**

**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**

### Part I

All AW189 helicopters from S/N 49007 thru S/N 49063 (S/N's 49024, 49036, 49040, 49041 and 49054 excluded), from S/N 89001 thru S/N 89012 (S/N's 89005 and 89006 excluded) and from S/N 92001 to S/N 92010.

### Part II

All AW189 helicopters from S/N 49007 thru S/N 49072 (S/N's 49024, 49036, 49040, 49041, 49068 and 49071 excluded), from S/N 89001 thru S/N 89012 (S/N's 89005 and 89006 excluded) and from S/N 92001 to S/N 92010.

## **B. COMPLIANCE**

### Part I

Within 200 flight hours or 6 months whichever occurs first from receipt of this Service Bulletin.

### Part II

Within 400 flight hours or 1 year whichever occurs first from receipt 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 perform the installation of the collective fairing retromod P/N 8G5320P00611 and copilot stick collective retromod P/N 8G6711P00711.

## **E. DESCRIPTION**

During the tests before delivery of one of their AW189 helicopters, Leonardo Helicopters identified a remotely possible interference between the quick release system of the copilot collective stick assy and the surrounding collective fairing. Leonardo Helicopters developed an improved copilot collective stick installation in order to prevent any issue. This improvement affects both the stick assy and the fairing.

This Service Bulletin gives instructions on how to install the new design by means of the following retromodifications:

Part I of this SB gives instruction to perform the collective fairing retromod P/N 8G5320P00611 which modify with a cut-out the copilot collective fairing.

Part II of this SB gives instruction to perform the copilot stick collective retromod P/N 8G6711P00711 which replaces the existing lanyard of the quick release system to insert a new system based on a pin P/N A012B05C048 and a pin lock P/N AA55487-8.

## **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 the following Maintenance-Man-Hours (MMH) are deemed necessary:

Part I: approximately three (3) MMH.

Part II: approximately one (1) MMH.

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.	I, II
DM02 89-A-06-41-00-00A-010A-A	Access doors and panels - General data	I, II
DM03 89-A-67-11-02-00A-520A-A	Copilot collective stick - Remove procedure	I, II
DM04 89-A-67-11-02-00A-720A-A	Copilot collective stick - Install procedure	I
DM05 89-A-67-11-10-00A-520A-A	Boot (copilot collective stick) - Remove procedure	II
DM06 89-A-67-11-10-00A-720A-A	Boot (copilot collective stick) - Install procedure	II

### 2) ACRONYMS & ABBREVIATIONS

AMDI	Aircraft Material Data Information
AMP	Aircraft Maintenance Publication
DM	Data Module
DOA	Design Organization Approval
EASA	European Aviation Safety Agency
FOD	Foreign Object Damage
LH	Leonardo Helicopters
MMH	Maintenance Man Hours
P/N	Part Number
S/N	Serial Number

### 3) ANNEX

N.A.

## J. PUBLICATIONS AFFECTED

AW189 Aircraft Maintenance Publication (AMP)

AW189 Illustrated Part Data (IPD).

## K. SOFTWARE ACCOMPLISHMENT SUMMARY

N.A.

## 2. MATERIAL INFORMATION

### A. REQUIRED MATERIALS

#### 1) PARTS

##### PART I

N.A.

##### PART II

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
1	8G6711P00711		COPILOT STICK COLLECTIVE RETROMOD	REF	.		
2	AA55487-8		Pin lock	1	..		-
3	MS20392-2C51		Pin	1	..		-

#### 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.

#### NOTE

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

Warranty: 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.

### **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) Exercise extreme care during cutting operations to prevent instruments, cables and hoses damage.
- c) After cut-out, remove all swarf and sharp edges. Apply on bare metal a light film of primer.
- d) All lengths are in mm.

#### **PART I**

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 Figure 1, get access to the copilot collective stick in the cockpit.
3. In accordance with AMP DM 89-A-67-11-02-00A-520A-A, remove the copilot collective stick. Put the boot flange P/N 4F6700A01331 on an applicable work bench.
4. With reference to Figure 1 perform the collective fairing retromod P/N 8G5320P00611 by performing the indicated cut-out on the following components:
  - Upper gasket P/N 4F6700A01651.
  - Upper gasket P/N 4F6700A01551.
  - Lower gasket P/N 4F6700A01451.
  - Collective fairing P/N 8G5320A08852.
5. In accordance with applicable steps of AMP DM 89-A-67-11-02-00A-720A-A, install the reworked boot flange P/N 4F6700A01331 and the copilot collective stick to the helicopter.
6. Return the helicopter to flight configuration and record for compliance with Part I of this Service Bulletin on the helicopter logbook.
7. Send the attached compliance form to the following mail box:

[engineering.support.lhd@leonardocompany.com](mailto:engineering.support.lhd@leonardocompany.com)

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

## **PART II**

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 Figure 1, get access to the copilot collective stick in the cockpit.
3. In accordance with AMP DM 89-A-67-11-10-00A-520A-A, remove the boot from the copilot collective stick.

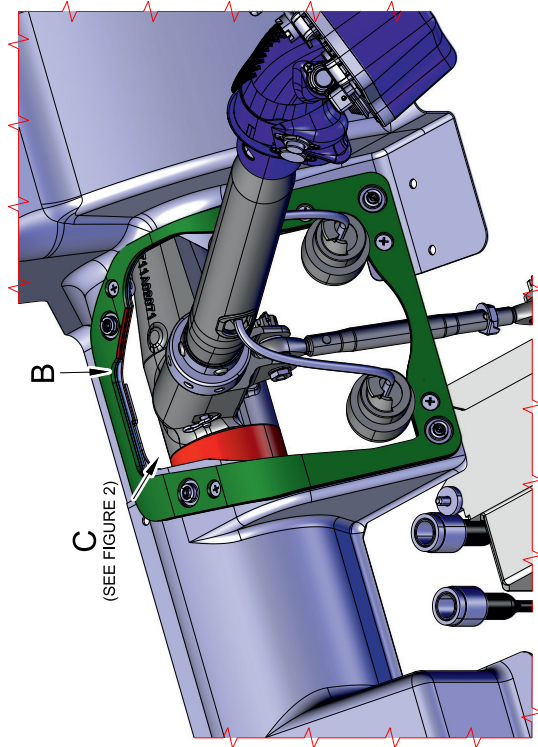
### **CAUTION**

Pay particular attention not to damage the collective stick during the following Step 4.

4. With reference to Figure 2 perform the copilot stick collective retromod P/N 8G6711P00711 as described in the following procedure:
  - 4.1 In accordance with applicable steps of AMP DM 89-A-67-11-02-00A-520A-A and with reference to Figure 2 View C1, remove and discard the quick release pin P/N MS17984C315, the lanyard security P/N A964A1B010B and the tiedown P/N MS3367-1-9 from the torsion tube assy P/N 8G6711A01731.
  - 4.2 With reference to Figure 2 View C2, install the pin P/N MS20392-2C51 and the pin lock P/N AA55487-8 on the torsion tube assy P/N 8G6711A01731.
  - 4.3 Mark P/N 8G6711A00632 on the copilot collective stick assy. Use an indelible pen.
5. In accordance with AMP DM 89-A-67-11-10-00A-720A-A, install the boot to the copilot collective stick.
6. Return the helicopter to flight configuration and record for compliance with Part II of this Service Bulletin on the helicopter logbook.
7. Send the attached compliance form to the following mail box:

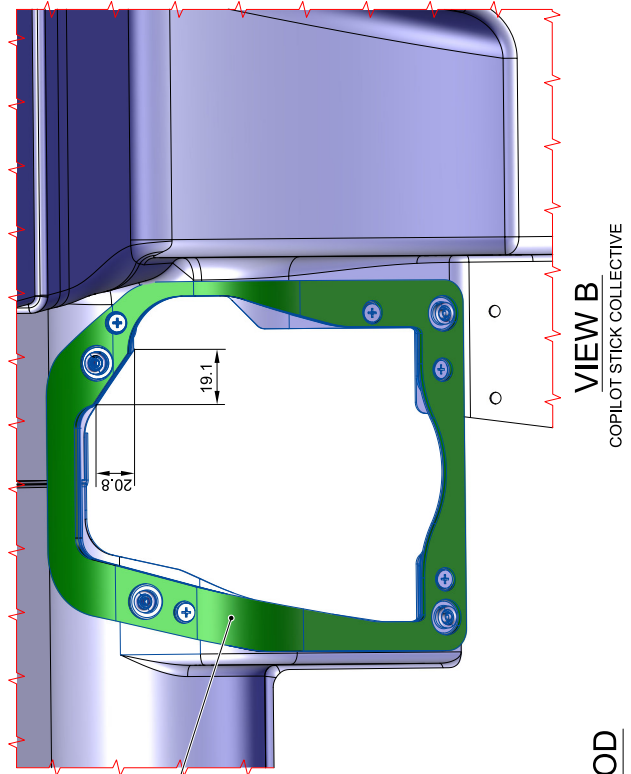
[engineering.support.lhd@leonardocompany.com](mailto:engineering.support.lhd@leonardocompany.com)

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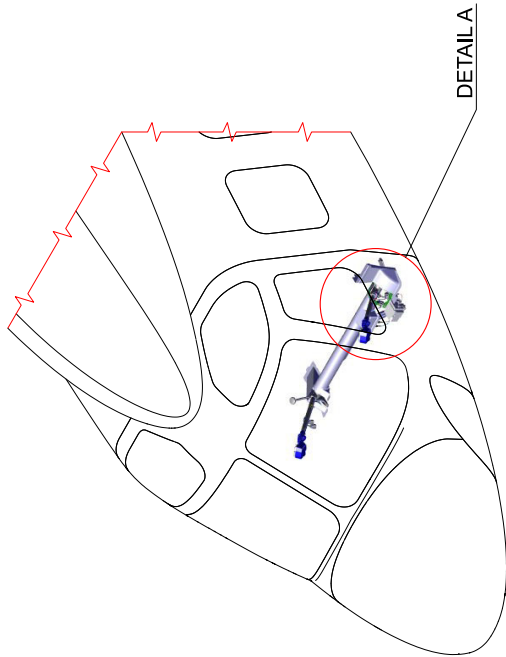
**DETAIL A**

STRUCTURE AND SYSTEMS ARE PARTIALLY OMITTED FOR BETTER CLARITY PURPOSE



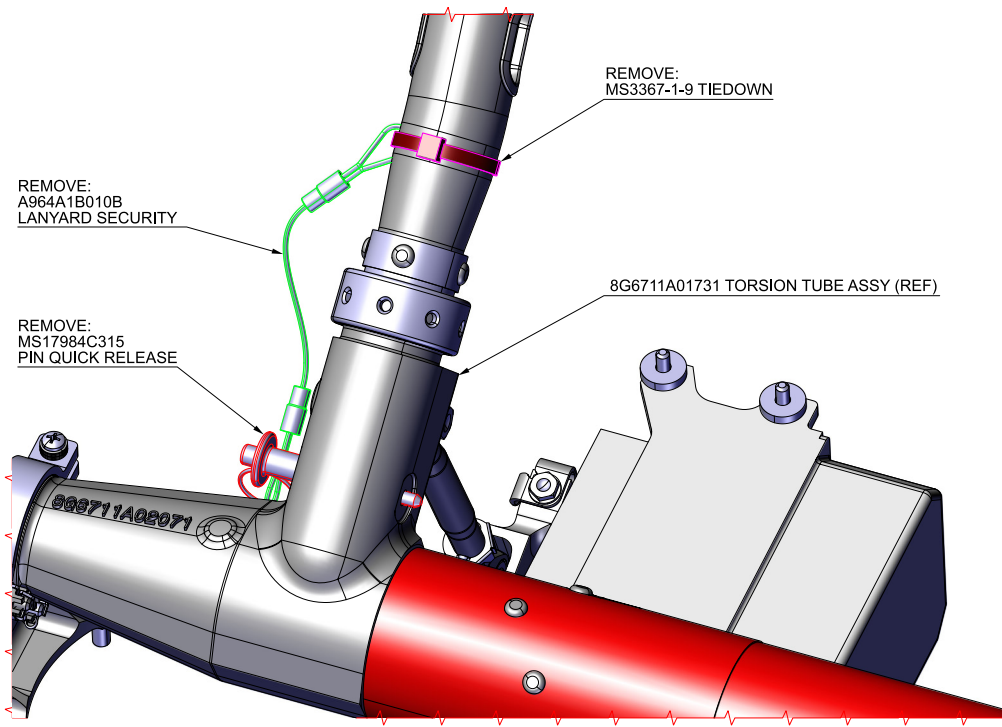
REWORK:  
8G5320A08852 COLLECTIVE FAIRING  
4F6700A01651 UPPER GASKET  
4F6700A01551 UPPER GASKET  
4F6700A01451 LOWER GASKET

**8G5320P00611**  
**COLLECTIVE FAIRING RETROMOD**

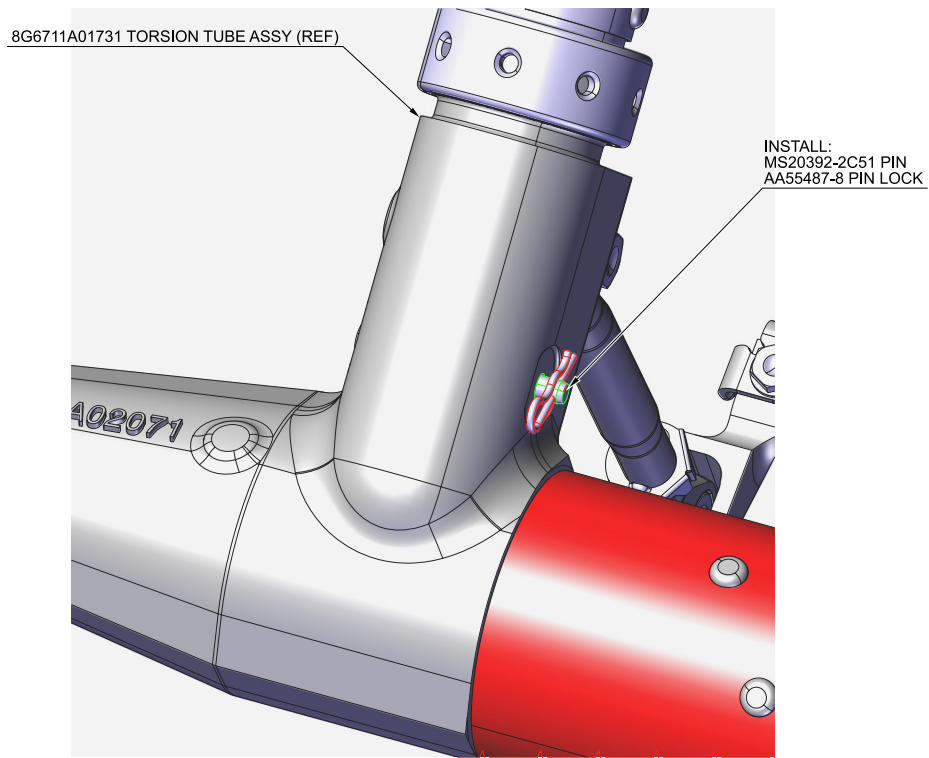


**Figure 1**





**VIEW C1**  
COPILOT STICK COLLECTIVE (WAS)  
(REFER TO FIGURE 1)



**VIEW C2**  
COPILOT STICK COLLECTIVE (BECOMES)  
(REFER TO FIGURE 1)

**8G6711P00711**  
**COPILOT STICK COLLECTIVE RETROMOD**

**Figure 2**

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.