
SERVICE BULLETIN

N° 189-345

DATE: April 13, 2023

REV. : /

TITLE

ATA 63 - MGB ROD ASSY RETROMOD INSTALLATION

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 from S/N 49007 thru 49102 (S/N's 49024, 49036, 49040 and 49041 excluded), from S/N 89001 to S/N 89015 (S/N's 89005 and 89006 excluded) and from S/N 92001 thru S/N 92010.

B. COMPLIANCE

Part I

Within and not later than one hundred (100) flight hours or three (3) months whichever occurs first after the issue of this Service Bulletin

Part II

Every ten (10) flight hours for the first fifty (50) flight hours after the compliance with Part I of this Service Bulletin and then every fifty (50) flight hours.

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 "MGB rod retromod" P/N 8G6330P00111.

E. DESCRIPTION

LHD received a few reports from Customers about the MGB forward rod assy RH P/N 8G6330A00631 slightly worn by the cover of the Landing Gear Control Valve (LGCV) P/N 8G3230V00232.

A retromod drawing P/N 8G6330P00111 was designed by LHD to install a protective tape, aimed to protect the MGB forward rod assy RH by this wear. The tape installation requires a periodic inspection in order to guarantee that the tape is in good condition.

Part I of this SB gives instructions to visually inspect the RHS MGB FWD rod for condition and to install the protective tape.

Part II of this SB gives instruction to periodically inspect the tape installation for condition and, in case of damage, how to replace it.

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 MMH are deemed necessary:

Part I: approximately two (2) 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

PART I

N.A.

PART II

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.	All
DM02 89-A-06-41-00-00A-010A-A	Access doors and panels - General data	All
DM03 89-A-63-31-03-00A-520A-A	Forward right rod - Remove procedure	All
DM04 89-A-63-31-03-00A-720A-A	Forward right rod - Install procedure	All

2) ACRONYMS & ABBREVIATIONS

AMDI	Aircraft Material Data Information
AMP	Aircraft Maintenance Publication
AR	As Required
DM	Data Module
DOA	Design Organization Approval
EASA	European Aviation Safety Agency
FWD	Forward
IPD	Illustrated Part Data
ITEP	Illustrated tool and equipment publication
LGCV	Landing Gear Control Valve
LH	Left Hand
LHD	Leonardo Helicopters Division
MMH	Maintenance Man Hours
N.A.	Not Applicable
P/N	Part Number
RH	Right Hand
SB	Service Bulletin
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

PART I

N.A.

PART II

N.A.

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

2) CONSUMABLES

The following consumable materials, or equivalent, are necessary to accomplish this Service Bulletin:

#	SPEC./LHD CODE NUMBER	DESCRIPTION	Q.TY	NOTE	PART
1	Commercial	Scotch tape Y5425	AR	(1) (2)	I
2	Commercial	Adhesive tape 3M 853	AR	(1) (2)	I

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.

NOTE

(1) Item to be procured as local supply. Minimum width 25 mm.

(2) These materials are alternatives.

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. 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., including Inspection Report Form complete of notes and pictures, after the inspection required on "PART I"; claims without the aforementioned report will be rejected.

NOTE: WRM will include RETURN MATERIAL AUTHORIZATION (RMA) number; the unit disembarked from the aircraft ("MGB forward rod assy RH" P/N 8G6330A00631) 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 ("MGB forward rod assy RH" P/N 8G6330A00631).

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.

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, open the access door 451A to gain access to the “MGB forward rod assy RH” P/N 8G6330A00631.
3. With reference to Figure 2, visually inspect the indicated area for evidence of wear or damage on the “MGB forward rod assy RH” P/N 8G6330A00631. If necessary, use a mirror and a source of light to completely inspect the area. If no damage is present, skip to Step 5.
4. In case of findings, perform the following procedures:
 - 4.1 Take a picture of the damage and of the LGCV installed (including the cover). Send the pictures to Leonardo Engineering Dept. at the following mail box: engineering.support.lhd@leonardo.com.
 - 4.2 Measure the depth of the wear or damage in the MGB rod (do not consider the thickness of paint/primer). Note the value in the Inspection Report in Figure 4.
 - 4.3 If the depth measured in the Step 4.2 exceeds 0.25 mm, perform the following procedure:
 - 4.3.1 In accordance with AMP DM 89-A-63-31-03-00A-520A-A and with reference to Figure 1, remove the “MGB forward rod assy RH” P/N 8G6330A00631.
 - 4.3.2 In accordance with AMP DM 89-A-63-31-03-00A-720A-A and with reference to Figure 1, install a new rod P/N 8G6330A00631 by means of the previously removed hardware. Skip to Step 5.

- 4.4 If the depth measured in the Step 4.2 is less than 0.25 mm, touch-up the exposed areas of the repaired zones with primer and paint to restore the original aspect of the MGB road in the damaged area, then proceed with Step 5.

NOTE

It is allowed to use two strips of tape to cover the indicated area.

It is allowed to overlap two strips of tape for 5 mm.

NOTE

It is allowed to use adhesive tape 3M 853 as alternative.

5. With reference to Figure 3, install the scotch tape Y5425 as shown in figure on the “MGB forward rod assy” RH P/N 8G6330A00631. Use a plastic scraper to apply the tape, if necessary. Make sure that the tape is installed correctly with no air bubbles entrapped below.
6. In accordance with AMP DM 89-A-06-41-00-00A-010A-A and with reference to Figure 1, close the access door 451A.
7. Return the helicopter to flight configuration and record for compliance with Part I of this Service Bulletin on the helicopter logbook.
8. 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

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, open the access door 451A to gain access to the area affected by the inspection.
3. With reference to Figure 2 and Figure 3, visually inspect the indicated area for evidence of wear, de-bonding or other damages on the tape installed on the “MGB forward rod assy RH” P/N 8G6330A00631. If necessary, use a mirror and a source of light to completely inspect the area.
4. In case of no findings go to Step 5. Otherwise proceed as described in the following procedure:
 - 4.1 With reference to Figure 3, remove the damaged tape installed on the forward rod P/N 8G6330A00631.

NOTE

It is allowed to use two strips of tape to cover the indicated area.

It is allowed to overlap two strips of tape for 5 mm.

NOTE

It is allowed to use adhesive tape 3M 853 as alternative.

- 4.2 With reference to Figure 3, install the scotch tape Y5425 as shown in figure on the “MGB forward rod assy RH” P/N 8G6330A00631. Use a plastic scraper to apply the tape, if necessary. Make sure that the tape is installed correctly with no air bubbles entrapped below.
5. In accordance with AMP DM 89-A-06-41-00-00A-010A-A, close the access door 451A.
6. Return the helicopter to flight configuration and record for compliance with Part II of this Service Bulletin on the helicopter logbook.
7. 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

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8G6330P00111
MGB ROD ASSY RETROMOD

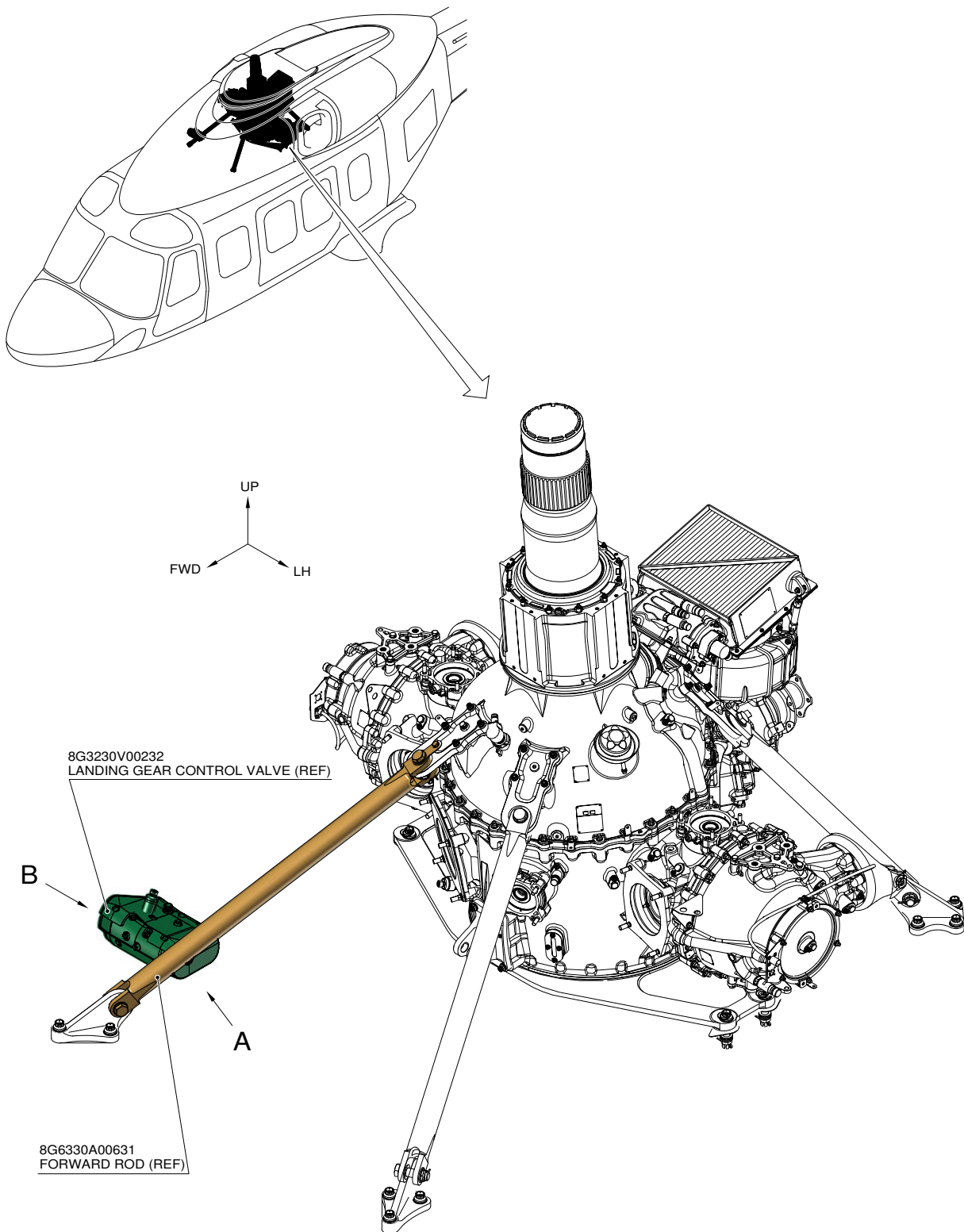
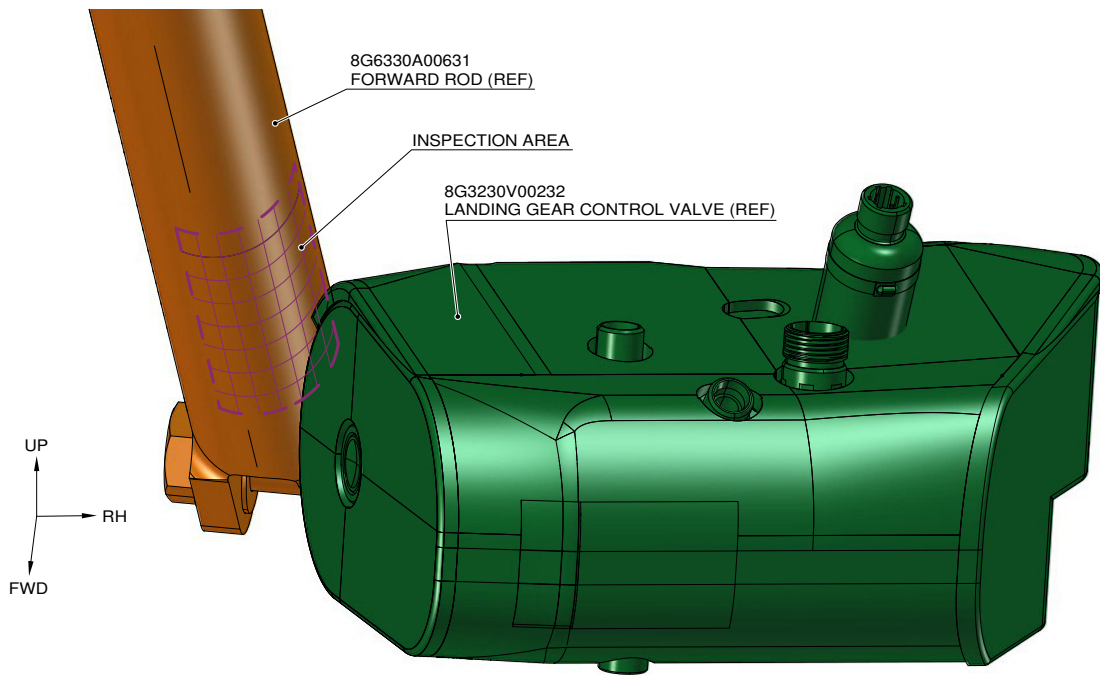


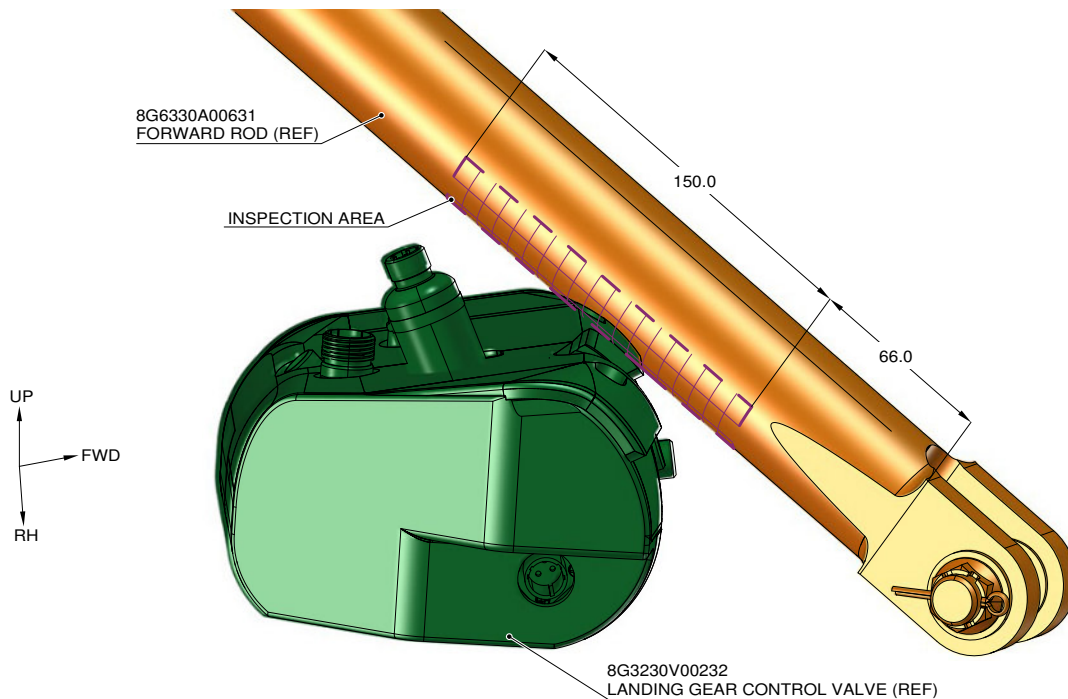
Figure 1

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VIEW A

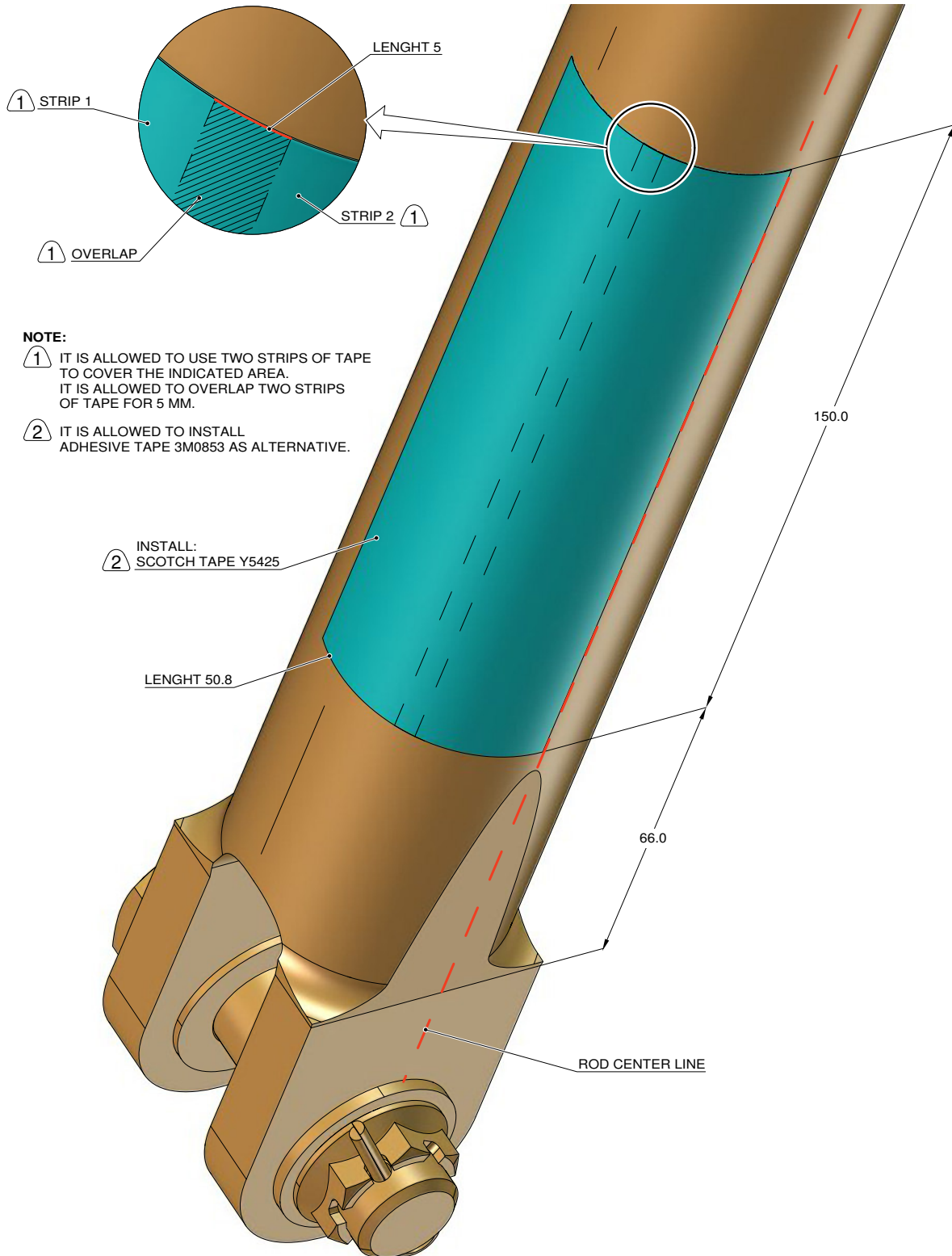
STRUCTURES AND SYSTEMS ARE PARTIALLY
OMITTED FOR BETTER CLARITY PURPOSE



VIEW B

STRUCTURES AND SYSTEMS ARE PARTIALLY
OMITTED FOR BETTER CLARITY PURPOSE

Figure 2



8G6330A00631 - FORWARD ROD

Figure 3

SB 189-345 – Inspection Report		
Date		
Helicopter S/N		
Flight Hours		
Customer		
MGB forward rod RH	Damage depth (mm)	
P/N 8G6330A00631		
Replacement required	YES (Damage > 0.25 mm)	NO (Damage <= 0.25 mm)
	<input type="checkbox"/>	<input type="checkbox"/>
Notes:		
The replacement of MGB forward rod RH is required only if the damage depth is more than 0.25 mm.		

Figure 4

