

# Temporary Maintenance Instruction TMI 139-573

# Rotating control installation - Slider bushing - Detailed inspection.

# All AW139 Helicopters

The technical content of this document is approved under the authority of DOA nr. EASA.21J.005.

The present TMI will be evaluated for its introduction in the standard set of Technical Publication. If no further notice is received, the present document expires on: October 20<sup>th</sup> 2024.

2023-10-20



### Introduction

This TMI provides the instructions and requirements to perform the Rotating control installation - Slider bushing - Detailed inspection.

Following procedure contained in this TMI updates and supersedes the contents of the relative Data Modules inside IETP:

ANNEX	DATA MODULE CODE	DATA MODULE TITLE
Annex 1	39-A-64-31-00-00A-31AC-A	Rotating control installation - Slider bushing - Detailed inspection

The content of this TMI will be endorsed within the applicable Maintenance Manual at the earliest opportunity.



# Rotating control installation - Slider bushing - Detailed inspection

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# **Preliminary Requirements**

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## Procedure

Refer to attached annex

# Requirement after job completion

Refer to attached annex



# Rotating control installation - Slider bushing - Detailed inspection

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## References

#### Table 1 References

Data Module	Title
39-A-00-20-00-00A-120A-A	Helicopter safety - Pre-operation (make helicopter safe for maintenance)
39-A-64-31-00-00A-361A-B	Rotating control installation - Dimensions check
39-A-64-31-01-00A-520A-A	Pitch link - Remove procedure
39-A-64-31-01-00A-720A-A	Pitch link - Install procedure
39-A-64-31-02-00A-520A-A	Scissors - Remove procedure
39-A-64-31-02-00A-720A-A	Scissors - Install procedure
39-A-64-31-06-00A-520A-A	Slider bushing - Remove procedure



#### Table 1 References

Data Module	Title
39-A-64-31-06-00A-720A-A	Slider bushing - Install procedure

#### Table 2 Access points

Access Panel / Door Id	Data Module	
No Access Point		

Table 3 Zones
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Access Panel / Door Id	Data Module
No Zones	

# **Preliminary Requirements**

# **Required Conditions**

Table 4 Required Conditions

Conditions	Data Module/Technical Publication
The helicopter must be safe for maintenance	39-A-00-20-00-00A-120A-A

# **Support Equipment**

#### Table 5 Support Equipment

Nomenclature	Identification No.	Qty
Platform, right	GG-02-00	1
Dial gauge	GF-54-08	1
Extension, dial gauge	GF-54-09	1
Support arm, dial gauge	GF-54-10	1



# **Supplies**

Table 6 Supplies

Nomenclature	Identification No.	Qty
Safety wire	C014	AR

## **Spares**

Table 7 Spares

Nomenclature		
No Spares		

## **Safety Conditions**

No Safety Condition

# Procedure

- 1 Put the Platform, right (GG-02-00) adjacent to the right side of the tail rotor.
- 2 Get access to the sliding control assembly (8).
- 3 Remove the parts that attach the four pitch links (1) to the sliding control assembly (8). Refer to the applicable steps of the data module 39-A-64-31-01-00A-520A-A.
- 4 Remove the parts that attach the two scissors (6) to the sliding control assembly (8). Refer to the applicable steps of the data module <u>39-A-64-31-02-00A-520A-A</u>.
- 5 Cut and remove the wire that attach the boot (7) to the slider bushing (5).
- 6 Disconnect the boot (7) from the groove of the slider bushing (5).
- 7 Move the boot (7) away from the slider bushing (5).
- 8 Examine the slider bushing (5) and make sure that:
  - It is in good condition
  - It is correctly attached
  - It has no damage.
- 9 If you find any damage, replace the slider bushing (5). Refer to data modules 39-A-64-31-06-00A-520A-A and 39-A-64-31-06-00A-720A-A.
- 10 Install the Extension, dial gauge (GF-54-09) on the Dial gauge (GF-54-08).



11	Put the plunger (3) of the dial gauge (2) against the slider tube (4) in the vertical position. Hold the dial gauge (2) in that position with the Support arm, dial gauge (GF-54-10).
	Note The correct position of the dial gauge plunger is shown in Section X-X of Figure 1.
12	Move the sliding control assembly (8) along the vertical axis and feel the slider bushing play.
13	Move the sliding control assembly (8) to one side of the play and set the dial gauge (2) to "0".
14	Move the sliding control assembly (8) to the opposite direction and read the dial gauge (2). Record the

dial gauge reading.

#### Note

The dial gauge (2) shows the total play of the slider bushing (5).

- 15 Put the plunger (3) of the dial gauge (2) against the slider tube (4) in horizontal position. Hold the dial gauge (2) in position with the support arm and the extension.
- 16 Move the sliding control assembly (8) along the horizontal axis and feel the slider bushing play.
- 17 Do step 13 and step 14 again and again to do a check of the play of the slider bushing (5).
- 18 Remove the dial gauge (2) with the extension and the support arm from the tail rotor.

#### Note

It is non required to disassemble the Spider and Slider assembly to do the subsequent steps.

- 19 If the measured play is more than 0.3 mm (0.012 in), do the subsequent steps. Otherwise go to the step 20.
- 19.1 Remove the slider bushing (5). Refer to data module 39-A-64-31-06-00A-520A-A. Discard the slider bushing.
- 19.2 Install a new slider bushing (5). Refer to data module 39-A-64-31-06-00A-720A-A.
- 19.3 Do the check of the slider bushing play again. If the measured play is still more than 0.3 mm (0.012 in), do the dimension check of the Slider OD given in the applicable steps of the data module 39-A-64-31-00-00A-361A-B. Otherwise go to the step 20.
- 20 Put the boot (7) in its position on the slider bushing (5).
- 21 Safety the boot (7) to the slider bushing (5) with the new Safety wire (C014).
- Install the parts that attach the two scissors (6) to the sliding control assembly (8). Refer to 39-A-64-31-02-00A-720A-A.
- 23 Install the parts that attach the four pitch links (1) to the sliding control assembly (8). Refer to 39-A-64-31-01-00A-720A-A.



# **Requirements After Job Completion**

1 Remove all the tools and the other items from the work area. Make sure that the work area is clean.

2 Remove the platform from the right side of the fuselage.



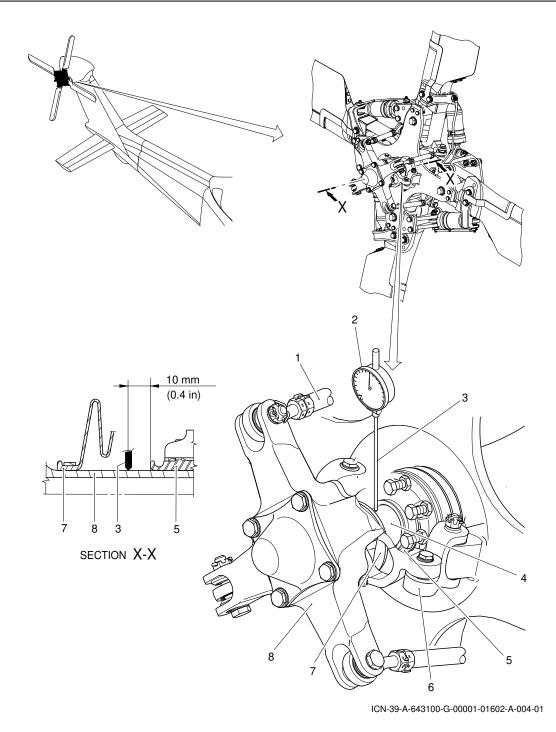


Figure 1 Rotating control installation - Slider bushing - Detailed inspection