

Temporary Maintenance Instruction TMI 139-562

Slider bushing - Install procedure

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: November 7th 2023.

2022-11-07

Introduction

This TMI provides the instructions and requirements to perform replacement of Sliding bushing.

The following procedures contained in this TMI update and supersede the contents of the following Data Modules:

ANNEX	DATA MODULE CODE	DATA MODULE TITLE
Annex 1	39-A-64-31-06-00A-720A-A	Slider bushing - Install procedure

Slider bushing - Install procedure

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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-00-60-00-00A-010A-A	Critical parts - General data
39-A-64-21-03-00A-720A-A	Top conical ring - Install procedure
39-A-64-31-04-00A-720A-A	Sliding control assembly - Install procedure
39-A-64-31-07-00A-720A-A	Boot - Install procedure
39-A-67-32-01-00A-720A-A	Tail rotor servoactuator - Install procedure

Table 1 References

Data Module	Title
39-B-64-21-03-00A-720A-A	Top conical ring - Install procedure

Table 2 Access points

Access Panel / Door Id	Data Module
No Access Point	

Table 3 Zones

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
Heat gun	ZZ-00-00	1
Rem/inst tool, slider bushing	GF-87-00	1
Rem/inst tool, slider bushing installation	GF-87-02	1
Rem/inst tool, slider bushing	GJ-62-00	1
Rem/inst tool, slider bushing installation	GJ-62-02	1

Supplies

Table 6 Supplies

Nomenclature	Identification No.	Qty
Lint-free cloth	C011	AR
Corrosion inhibitor remover	C273	AR
Corrosion preventive compound	C075	

Spares

Table 7 Spares

Nomenclature	Identification No.	Qty
Slider bushing	64-31-00-01 -031	AR

Safety Conditions

WARNING

The materials that follow are dangerous. Before you do this procedure, make sure that you know all the safety precautions and first aid instructions for these materials:

- Corrosion inhibitor remover (C273)
- Corrosion preventive compound (C075)

CAUTIONS

- This component is a critical part. Examine the component for signs of structural damage before you install it on the helicopter. Refer to 39-A-00-60-00-00A-010A-A.
- During this procedure, do not touch the components made of metal with your bare hands. Put on applicable cotton gloves before you touch the components. Contamination from your bare hands will cause corrosion of the metals.

Procedure

- 1 Put the Platform, right (GG-02-00) adjacent to the right side of the tail rotor.

CAUTION

Always wear clean and dry gloves during the subsequent operations.

- 2 Clean the housing of the slider bushing (3, Figure 1) in the shaft (2) and all the external surface of the slider bushing (3) with the Lint-free cloth (C011) and the Corrosion inhibitor remover (C273) .

WARNING

Be careful when you use the compressed air. Dust and particles can cause injury to your eyes. Always use applicable protective goggles.

3 Dry the cleaned parts with the compressed air until you remove all the solvent.

Note

Apply the corrosion preventive compound with a clean brush.

4 Apply the Corrosion preventive compound (C075) on all the external surface of the slider bushing (3). Make sure that you apply the corrosion preventive compound also on the surface of the flange that touches the shaft (2).

CAUTION

Do not freeze the slider bushing (3).

5 Increase the temperature of the shaft (2) in the area where you will install the slider bushing (3) with the Heat gun (ZZ-00-00) . Do not increase the temperature more than 100 °C.

Note

When you do step 6 thru step 9 that follow, refer also to Figure 2.

6 Install the components of the Rem/inst tool, slider bushing installation (GJ-62-02) (part of the Rem/inst tool, slider bushing (GJ-62-00)) into the slider bushing (3).

7 Assemble the guide of the removal tool in the slider bushing (3) with the parts that follow:

- The pusher
- The two half holders
- The two guides
- The locking bushing.

8 Apply the corrosion preventive compound on the surface of the shaft (2) that touches the slider bushing (3).

CAUTION

Do not use tools (hammers or other shock tools) to install the slider bushing (3). Static load or shock loads applied on the shaft (2) by tools cause damage to the duplex bearing in the inner side of the tail gearbox. Make sure that you use only your hands to apply force on the pusher.

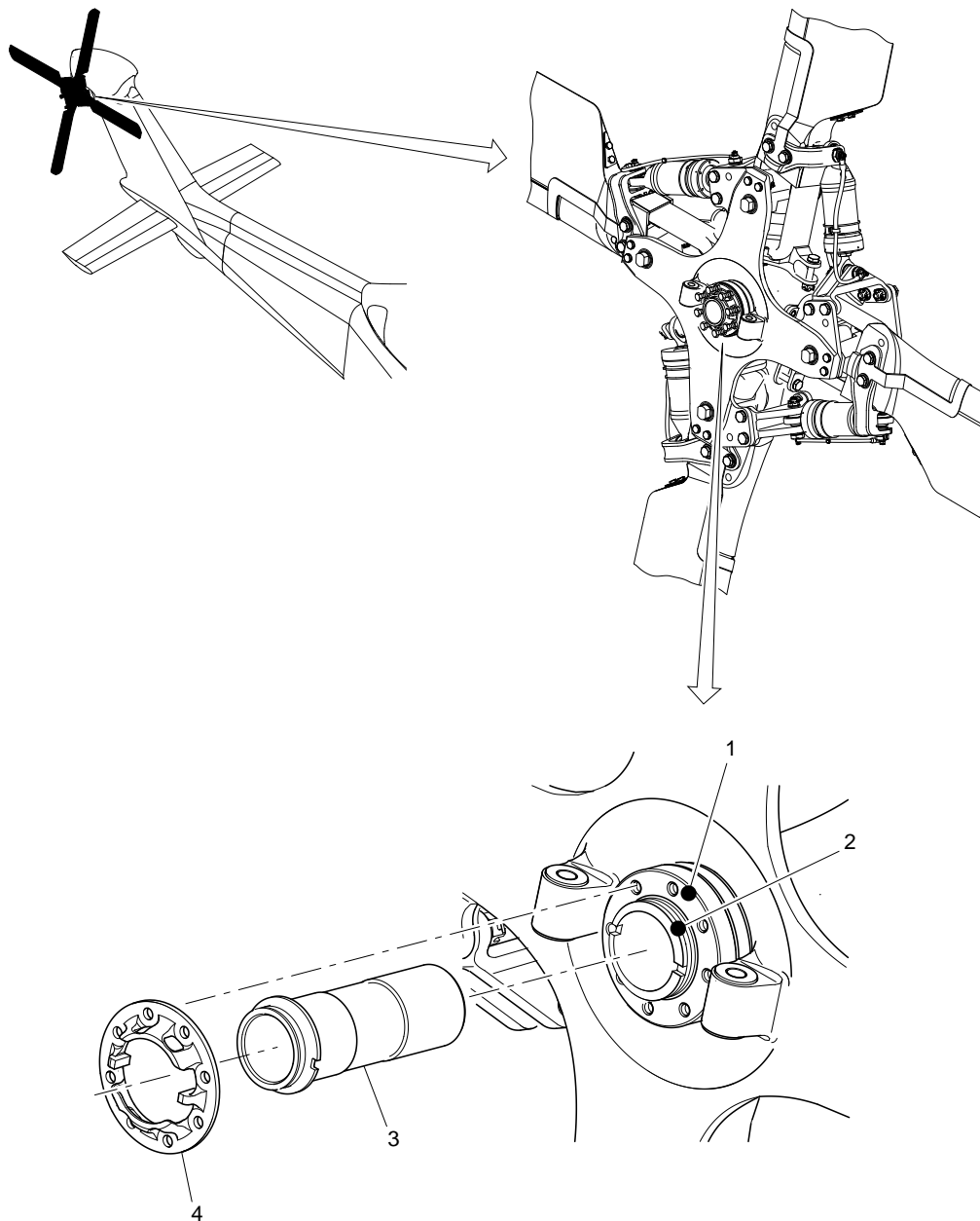
9 Push the slider bushing (3) fully against its seat in the shaft (2). Make sure that the slots of the slider bushing (3) are aligned with the related slots on its seat of the shaft (2).

10 Install the locking flange (4, Figure 1) in its correct position on the slider bushing (3) and the lock nut (1) as given in the applicable steps of data modules 39-A-64-21-03-00A-720A-A or 39-B-64-21-03-00A-720A-A.

Requirements After Job Completion

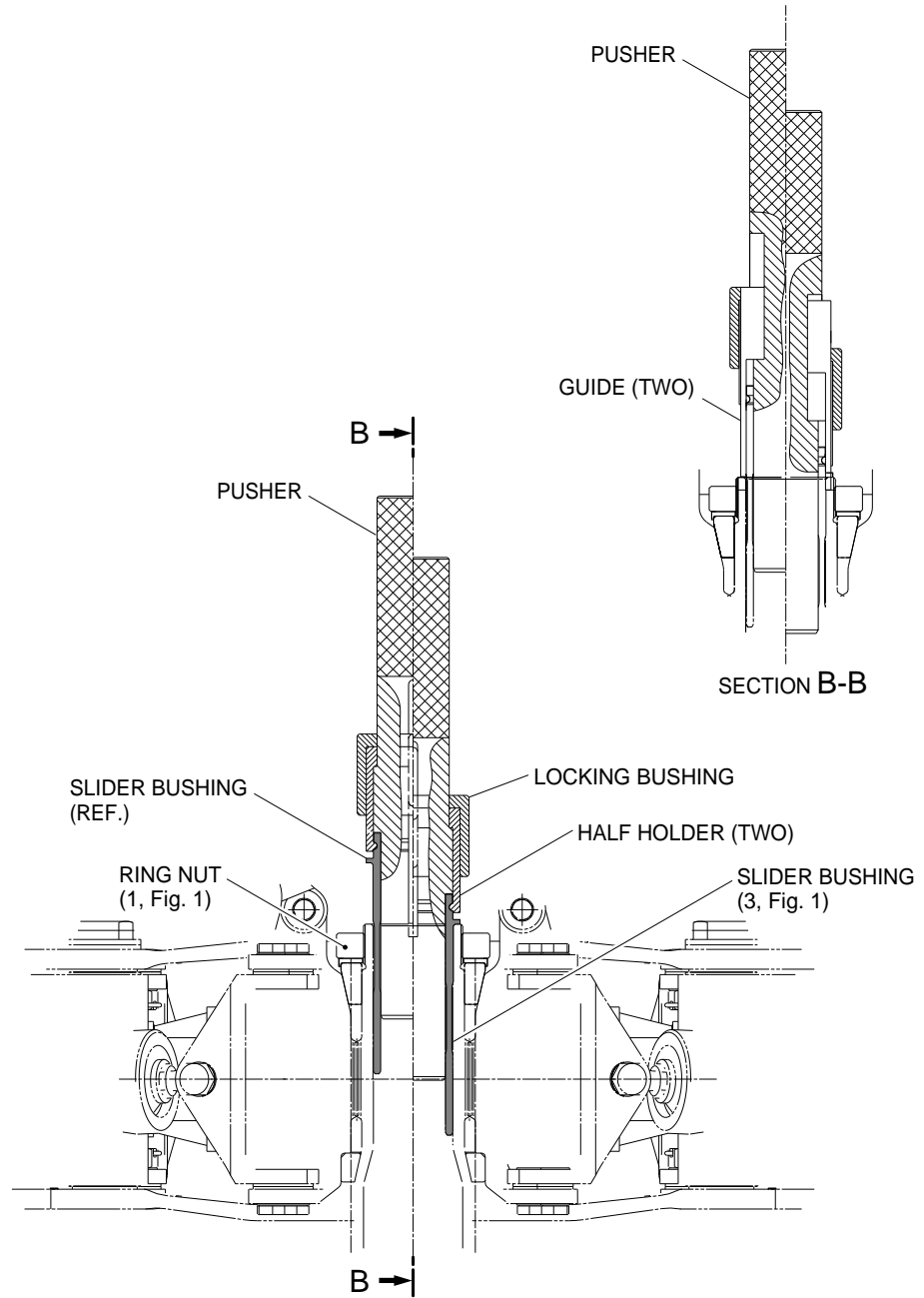
1 Remove all the tools and the other items from the work area. Make sure that the work area is clean.

- 2 Remove the platform from the right side of the tail rotor.
- 3 Install the tail rotor servoactuator. Refer to [39-A-67-32-01-00A-720A-A](#)
- 4 Install the boot. Refer to [39-A-64-31-07-00A-720A-A](#)
- 5 Install the spider and slider assembly. Refer to [39-A-64-31-04-00A-720A-A](#)



ICN-39-A-643106-G-00001-07381-A-005-01

Figure 1 Slider bushing - Install procedure



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Figure 2 Use of slider bushing installation tool

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End of Data Module