

**No. AS350-05.01.03**

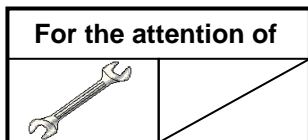
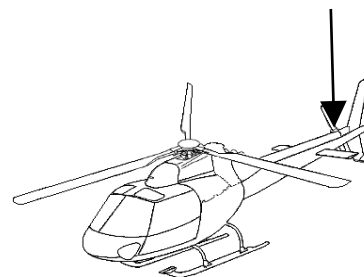
Civil version(s): B, BA, BB, B1, B2, B3, D  
 Military version(s): L1

# ALERT SERVICE BULLETIN

## PROTECTIVE MEASURE

### TIME LIMITS - MAINTENANCE CHECKS

Check for absence of rotation of the bearing spacer of the Tail-Rotor-Head (TRH) pitch-change-unit  
 ATA: 65



Revision No.	Date of issue
Revision 0	2021-12-16
Revision 1	2024-07-08

### Summary:

The purpose of this ALERT SERVICE BULLETIN is to make sure that the bearing spacer of the TRH pitch-change-unit does not rotate.

### Reason for last Revision:

The purpose of revision 1 of this ALERT SERVICE BULLETIN is to:

- Specify that helicopters on which revision 0 of this ALERT SERVICE BULLETIN was complied with are considered POST MOD 0765002 and must have their Log Card (FM) updated
- Remove the repetitive visual check (paragraph [3.B.2.b](#). Monitoring of black paint index mark) from this ALERT SERVICE BULLETIN because this procedure is now integrated in the Airworthiness Limitations Section (ALS)
- Specify that POST MOD 0765002 helicopters are not affected by this ALERT SERVICE BULLETIN.

### Compliance:

It is mandatory to comply with this ALERT SERVICE BULLETIN.

### Export Control:

US Export Control - No US content. This Item does not contain any U.S. origin ITAR or EAR content.

FR Export Control - Not Listed. This Item is not listed against the EC regulations in the EU/FR

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#### 1. PLANNING INFORMATION

##### 1.A. EFFECTIVITY

###### 1.A.1. Helicopters/installed equipment or parts

AS350 helicopters all versions fitted with TRH pitch change unit MP/N 350A33-2030-00 or 350A33-2167-00 or 350A33-2167-01 PRE MOD 0765002.

###### **NOTE 1**

*The purpose of modification 0765002 is to add a paint mark on the TRH pitch change unit and on the bearing spacer.*

###### **NOTE 2**

*You can identify the modification status of the equipment in the Log Cards (FM).*

###### **NOTE 3**

*For POST MOD 0765002 AS350 helicopters, the maintenance (Check of the alignment of the black paint line between the pitch change spider and the bearing spacer) is now updated in the Airworthiness Limitations Section (ALS).*

###### 1.A.2. Non-installed equipment or parts

TRH pitch change unit MP/N 350A33-2030-00 or 350A33-2167-00 or 350A33-2167-01 PRE MOD 0765002.

##### 1.B. ASSOCIATED REQUIREMENTS

Not applicable.

##### 1.C. REASON

###### Revision 0:

During a tail rotor pitch change spider inspection, the operator reported excessive play in the assembly and excessive wear on its parts due to unwanted rotating motion.

These significant damages on parts could lead to the loss of the helicopter yaw control.

Consequently, the purpose of this ALERT SERVICE BULLETIN is to make sure that the bearing spacer of the TRH pitch-change-unit does not rotate.

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#### Revision 1:

Compliance with this ALERT SERVICE BULLETIN is equivalent to the implementation of MOD 0765002 (addition of a paint mark on the TRH pitch change spider and bearing spacer). Consequently, helicopters on which revision 0 of this ALERT SERVICE BULLETIN was complied with are considered POST MOD 0765002 and this MOD 0765002 must be marked on the Log Card of the TRH pitch change unit spider and bearing spacer.

In addition, since the issue of revision 0 of this ALERT SERVICE BULLETIN, the maintenance related to POST MOD 0765002 helicopters has been added to the ALS (Check of the alignment of the black paint line between the pitch change spider and the bearing spacer). It is therefore no longer necessary for POST MOD 0765002 helicopters to comply with this ALERT SERVICE BULLETIN.

The purpose of revision 1 of this ALERT SERVICE BULLETIN is to:

- Specify that helicopters on which revision 0 of this ALERT SERVICE BULLETIN was complied with are considered POST MOD 0765002 and must have their Log Card updated.
- Remove the repetitive visual check (paragraph [3.B.2.b](#). Monitoring of black paint index mark) from this ALERT SERVICE BULLETIN because this procedure is now integrated in the ALS.
- Specify that POST MOD 0765002 helicopters are not affected by this ALERT SERVICE BULLETIN.

#### **1.D. DESCRIPTION**

This ALERT SERVICE BULLETIN describes the work steps that follow:

- Do a check of the presence of the nut and its good installation.
- Do a black paint index mark on the TRH pitch change unit and the bearing spacer (implementation of MOD 0765002).
- If necessary, do a detailed inspection of the TRH pitch change unit.

#### **1.E. COMPLIANCE**

##### **1.E.1. Compliance at H/C manufacturer level**

###### Helicopters/installed equipment or parts:

Airbus Helicopters makes it mandatory to comply with the instructions of paragraph [3.B.2.a](#). before the delivery of the helicopter.

###### Non-installed equipment or parts:

Airbus Helicopters makes it mandatory to comply with the instructions of paragraph [3.B.2.a](#). before the delivery of the TRH pitch change unit.

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#### 1.E.2. Compliance in service

##### Helicopters/installed equipment or parts:

The operator must do the work on the helicopter.

- **For helicopters which have not complied with revision 0 of this ALERT SERVICE BULLETIN:**
  - . Comply with paragraph [3.](#) not more than 50 FH (Flight Hours) after you received revision 0 of this ALERT SERVICE BULLETIN. Refer to the issue date on the page footer,

##### **NOTE 4**

*After compliance with this ALERT SERVICE BULLETIN, comply with the ALS in force for helicopters on which modification 0765002 was implemented.*

- **For helicopters which have complied with revision 0 of this ALERT SERVICE BULLETIN:**
  - . Record the modification 0765002 on the Log Card of the TRH when you receive revision 1 of this ALERT SERVICE BULLETIN. Refer to the issue date on the page footer.

##### **NOTE 5**

*After compliance with this ALERT SERVICE BULLETIN, comply with the ALS in force for helicopters on which modification 0765002 was implemented.*

##### Non-installed equipment or parts:

It is the operator who does the work on non-installed equipment.

Comply with paragraph [3.B.2.a.](#) before installation of the TRH pitch change unit on the helicopter.

#### 1.F. APPROVAL



The technical content of this document is approved under the authority of the Design Organization Approval ref. EASA. 21J.700.

The technical content of this document is approved under the prerogatives of the recognition of design capability ref. EMAR21J-015-DGA for French Government helicopters.

The technical content of this document is approved by Airbus Helicopters Airworthiness Department for export military versions.

#### 1.G. MANPOWER



Airbus Helicopters recommends that the personnel who will do this ALERT SERVICE BULLETIN have this qualification:

Qualification: 1 Mechanical Technician.



The man-hours are an estimate given for information only and for a standard helicopter configuration.

Estimated Man-hours: 15 minutes for application of paragraph [3.B.2.a.](#)  
13 hours for application of paragraph [3.B.2.c.](#)

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#### 1.H. WEIGHT AND BALANCE

There is no change in weight and moment.

#### 1.I. POWER CONSUMPTION

Not changed.

#### 1.J. SOFTWARE UPGRADES/UPDATES

Not applicable.

#### 1.K. REFERENCES

These documents are necessary to comply with this ALERT SERVICE BULLETIN:

##### **For helicopters versions B, BA, BB, B1, D and L1**

Mechanical Repair Manual (MRM):

MRM: 65-20-00-713: Replacement of the control plate bearing (POST MOD 076550) - TGB

##### **For helicopters versions B2 and B3**

Aircraft Maintenance Manual (AMM):

AMM: 65-21-00,4-9: Removal / Installation - Control Plate Bearing - Tail Gear Box

##### **For all helicopters**

Standard Practices Manual (MTC):

MTC: 20-07-02-201: Helicopter parked in a repair shop - Safety instructions

MTC: 20-07-03-408: Appearance checks on an aircraft after inspection or repair - Technical instructions

MTC: 20-08-05-101: Drafting and updating the log card (FM) - General rules applicable to aircraft

Information Notice (IN):

IN: 3481-I-00: The Marketplace: an AirbusWorld eOrdering service

IN: 3785-I-00: Introduction of the digital Service Bulletin reporting service SB Insight

Safety Promotion Notice (SPN):

SPN: 3703-P-00: GENERAL - Foreign Object Damage prevention

#### 1.L. OTHER AFFECTED PUBLICATIONS

Not applicable.

#### 1.M. PART INTERCHANGEABILITY OR MIXABILITY

This ALERT SERVICE BULLETIN has no effect on the interchangeability and mixability.

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### 2. EQUIPMENT OR PARTS INFORMATION

#### 2.A. EQUIPMENT OR PARTS: PRICE - AVAILABILITY - PROCUREMENT

##### Price

For information about the price of the modification kits and/or components, or for aid, contact the Airbus Helicopters Network Sales and Customer Relations Department.

##### Availability

Contact the Sales and Customer Relations Department to know the delivery lead times.

##### Procurement

Send an order for the necessary quantities to the Airbus Helicopters Network Sales and Customer Relations Department:

Airbus Helicopters  
Etablissement de Marignane  
Direction Ventes et Relations Client  
13725 MARGNANE CEDEX  
FRANCE

In the purchase order, write the information that follows:

- The mode of transport
- The destination
- The serial numbers of the helicopters to change.

#### 2.B. LOGISTIC INFORMATION

Not applicable.

#### 2.C. EQUIPMENT OR PARTS REQUIRED PER HELICOPTER/COMPONENT

Equipment or parts to be ordered for one helicopter or one assembly:

Key Word	Qty	New reference	Item	Former reference →	Instruction
Rotating plate	1	Refer to IPC	-		Replace if necessary

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#### Consumables to be ordered separately:

Refer to the Work Cards and Tasks mentioned in this ALERT SERVICE BULLETIN and the list below.

<b>Key Word</b>	<b>Qty</b>	<b>Reference</b>	<b>CM</b>	<b>Item</b>
Black paint	AR	Commercial reference	-	2

You can order the consumables from the AirbusWorld Marketplace through e-ordering (IN No. 3481-I-00). If you cannot get access to e-ordering, please contact your Logistic Focal Point.

#### Special tools:

Refer to the Work Cards and Tasks mentioned in this ALERT SERVICE BULLETIN and the list below.

<b>Key Word</b>	<b>Qty</b>	<b>Tool reference or equivalent</b>	<b>Item</b>
Magnifying lens	1	Commercial reference	zz

## 2.D. EQUIPMENT OR PARTS TO BE RETURNED

Not applicable.

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## 3. ACCOMPLISHMENT INSTRUCTIONS

### 3.A. GENERAL

Comply with the safety instructions for a helicopter parked in a repair shop. Refer to the Work Card 20-07-02-201 (MTC).

### 3.B. WORK STEPS



#### **CAUTION**

**MAKE SURE THAT YOU PREVENT ALL POSSIBLE FOREIGN OBJECT DAMAGE (FOD). REFER TO SPN 3703-P-00.**

#### 3.B.1. Preliminary steps

- Park the helicopter in a maintenance hangar.
- Install the appropriate access equipment.
- Remove and/or open all cowlings, panels, doors and all equipment items to enable adequate access to the various work areas.

#### 3.B.2. Procedure

##### 3.B.2.a. Check of the presence of the nut and its good installation and application of black paint index mark ([Figure 1](#))

Make sure that the nut (d) is not missing and well installed (not loose):

- If the nut is missing or loose:
  - . Inform the Airbus Helicopters Support Department about the results by a creation of a Technical Event (TE) on WebTEK: <https://airbusworld.helicopters.airbus.com>
  - . Comply with paragraph [3.B.2.c.](#)
- If the nut is not missing and not loose:
  - . Identify the position of the TRH pitch change unit (a) and of the bearing spacer (b) by means of a 2 to 5 mm wide black paint index mark (C) with the black paint (2) (not shown).  
Then:
    - . Record the MOD 0765002 in the Log Card (FM) of the TRH pitch change unit. Refer to paragraph [3.C.](#)

#### **NOTE 1**

*Modification 0765002 consists of the addition of a paint mark on the upper spacer and the spider.*



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#### 3.B.2.b. Monitoring of black paint index mark ([Figure 1](#))

#### **NOTE 2**

*After compliance with this ALERT SERVICE BULLETIN, comply with the ALS in force.*

#### 3.B.2.c. Inspection of the TRH pitch change unit ([Figure 1](#))

Comply with the Work Card 65-20-00-713 (MRM) or the Task 65-21-00, 4-9 (AMM).

When you comply with the Work Card 65-20-00-713 (MRM) or the Task 65-21-00, 4-9 (AMM), before you install the bearing:

- Make sure that there is no damage on the rotating plate (not shown) and on the rotating plate threads with the magnifying lens (zz).
  - . If there is damage, replace the rotating plate (not shown).
  - . If there is no damage, install again the rotating plate (not shown).
- Comply with paragraph [3.B.2.a.](#)

#### 3.B.3. Final steps

- Set the helicopter to the flight condition.
- Do an appearance check of the helicopter after inspection or repair, refer to the Work Card 20-07-03-408 (MTC).
- Install or close all cowlings, panels, doors and items of equipment that you removed and/or opened during the preliminary steps (paragraph [3.B.1.](#) of this ALERT SERVICE BULLETIN).
- Remove the access equipment.

### 3.C. RECORD OF COMPLIANCE

Compliance with this document:

- Record the modification 0765002 in the helicopter documents.
- Record the full compliance with this ALERT SERVICE BULLETIN in the Log Card (FM) of the TRH pitch change unit (Spider). Refer to Work Card 20-08-05-101 (MTC).
- Record compliance with this ALERT SERVICE BULLETIN (see IN 3785-I-00 for instructions):  
QR-Code or hypertext link



#### **NOTE 3**

*The recording of compliance with ALERT SERVICE BULLETINS in the SB Insight tool does not replace the recording in the helicopter documents.*

[ASB AS350 05.01.03](#)

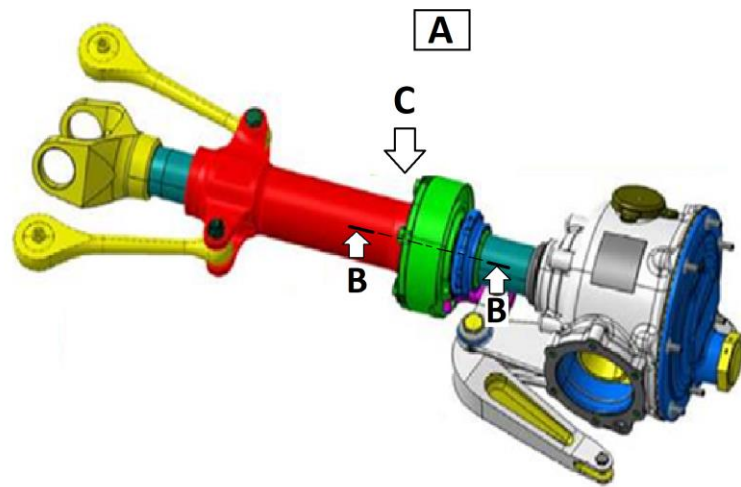
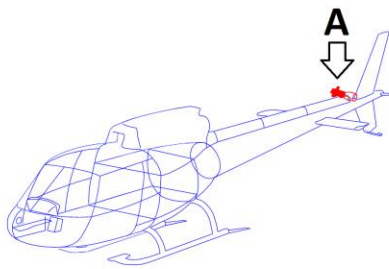
Tracking of modifications in the documentation:

Record the modification 0765002 in the Log Card of the TRH pitch change unit (spider). Refer to Work Card 20-08-05-101 (MTC).

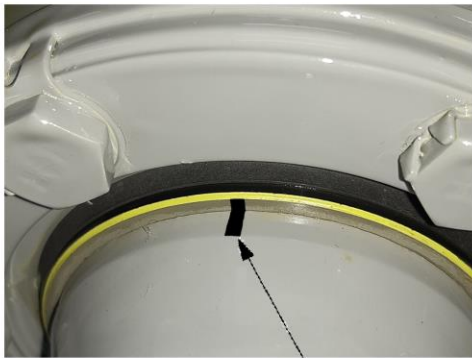
### 3.D. OPERATING AND MAINTENANCE INSTRUCTIONS

Not applicable.

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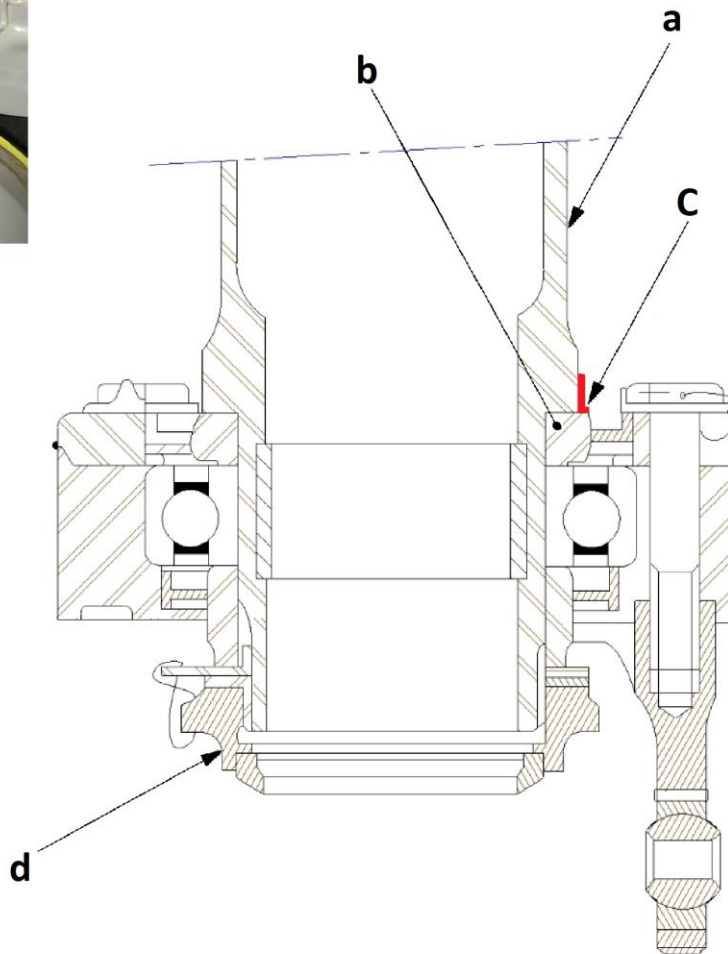


**C**



**C**

### SECTION B-B



Back to paragraphs [3.B.2.a.](#) and [3.B.2.c.](#)

Figure 1