

# ALERT SERVICE BULLETIN

**TITLE:** Rotor Head - Addition of paint lines to each side of the tail rotor hub body and splined flange assembly for visual inspection of tightening torque

**SB Type:** Corrective measure

## APPLICABILITY

|          |       |
|----------|-------|
| Model:   | EC120 |
| Version: | B     |

## COMPLIANCE: MANDATORY

For Airbus Helicopters it is mandatory to comply with the instructions contained in this ALERT SERVICE BULLETIN.

Comply with this ALERT SERVICE BULLETIN without exceeding 24 months following receipt of issue 001 of this ALERT SERVICE BULLETIN.

## SUMMARY

The objective of this ALERT SERVICE BULLETIN is to add red paint marks on both sides of the link between the tail rotor hub and the splined flange, on each bolt and each nut after application of the tightening torque. This will enable the detection of any loss of tightening torque during visual inspections.

## GENERAL EVALUATION

| Evaluation table |     |                          |    |
|------------------|-----|--------------------------|----|
| Perform once     | YES | Recurring accomplishment | NO |

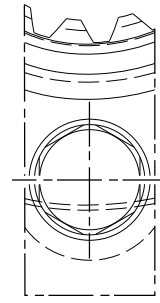
Export Control:

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

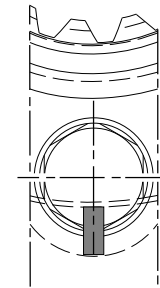
FR Export Control - Not Listed. This Item is not listed against the EC regulations in the EU/FR

### GENERAL ILLUSTRATION

BEFORE MODIFICATION



AFTER MODIFICATION



## PLANNING INFORMATION

### 1. REASON

Following the loss of tightening torque of the links between the hub and the splined flange of the tail rotor, EASB EC120-05A020 was issued requesting an inspection of the hub every 15 FH. This ALERT SERVICE BULLETIN adds a line of red paint on each bolt and each nut of the link between tail hub and splined flange. This will allow the visual detection during maintenance of any tightening torque loss. Compliance with this ALERT SERVICE BULLETIN is the starting point of the new inspection interval in accordance with the latest ALS and thus cancels the instructions introduced in EASB EC120-05A020 for helicopters with installed equipment or parts.

### 2. DESCRIPTION

This ALERT SERVICE BULLETIN provides instructions to:

- Remove the tail rotor hub
- Check the torque value
- Apply a line of red paint on each bolt and each nut of the link between tail hub and splined flange
- Install the rotor hub.

### 3. CONFIGURATION DEFINITION

Not applicable.

### 4. CONCURRENT REQUIREMENTS

Not applicable.

### 5. APPROVAL

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

For helicopters operated outside the terrain regulated by the EASA, the application of this document is subject to validation provided by the responsible aviation authority of the state of registry.

## 6. MANPOWER

### NOTE

The Purpose of Man Hours is to give Airbus Helicopters customers a guideline for maintenance scheduling. It is not a contractual information.

### 6.1. Manpower for procedure

| Number of Persons | Qualification         | Estimated Man Hours |
|-------------------|-----------------------|---------------------|
| 1                 | Mechanical technician | 4 h                 |
| Total Man Hours   |                       | 4 h                 |

## 7. WEIGHT AND BALANCE

There is no change in weight and moment.

## 8. ELECTRICAL LOAD DATA

Not changed.

## 9. DOCUMENTATION AFFECTED

Aircraft Maintenance Manual (AMM)  
Airworthiness Limitations Section (ALS)  
Master Servicing Manual (MSM)

## 10. MATERIAL INFORMATION

### 10.1. 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.

### 10.2. Availability

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

#### 10.3. Procurement

Send an order for the necessary quantities to the Airbus Helicopters Network Sales Department.

You can send and order for the consumables from the AirbusWorld Marketplace through e-ordering. If you cannot get access to e-ordering, please contact your Logistic Focal Point.

#### 10.4. Mixability

This ALERT SERVICE BULLETIN has no effect on the mixability.

#### 10.5. LIST OF NEW MATERIALS

| Individual Spares List |             |           |     |     |
|------------------------|-------------|-----------|-----|-----|
| Item                   | Designation | Reference | MFC | QTY |
| None                   |             |           |     |     |

| Consumables, Materials and Expendables |           |       |             |           |
|--|-----------|-------|-------------|-----------|
| Designation                            | Reference | MFC   | QTY         | See Notes |
| Paint, Polyurethane                    | CM4185    | F0210 | As required | (1)       |
| NOTE(S)                                |           |       |             |           |
| (1) Item 1                             |           |       |             |           |

Refer to the Work Cards and Tasks identified in this ALERT SERVICE BULLETIN.

| Special Tools |             |           |     |     |
|---------------|-------------|-----------|-----|-----|
| Item          | Designation | Reference | MFC | QTY |
| None          |             |           |     |     |

#### 10.6. LIST OF EXISTING PARTS

Not applicable.

## 11. ACCOMPLISHMENT INSTRUCTION

Comply with the accomplishment procedure [64-21-0001, 933](#)

## 12. ADDITIONAL INFORMATION

Not applicable.

End of section

## ACCOMPLISHMENT PROCEDURE 64-21-0001, 933

### 1. APPLICABILITY

|          |       |
|----------|-------|
| Model:   | EC120 |
| Version: | B     |

### 2. GENERAL INFORMATION

Acronym/Abbreviation List

AMM - Aircraft Maintenance Manual

FH - Flight Hours

FOD - Foreign Object Damage

MTC - Manuel des Techniques Courantes (Standard Practices Manual)

### 3. PRELIMINARY REQUIREMENTS

#### 3.1. Applicable Documents

- Removal - Tail Rotor Hub [AMM 64-21-00, 4-1](#)
- Installation - Tail rotor hub [AMM 64-21-00, 4-2](#)
- Assembly - Tail rotor hub [AMM 64-21-00, 4-4](#)
- Assembly by screws and nuts [MTC 20-02-05-404](#)
- Use of polyurethane topcoat 1500-M [MTC 20-04-05-442](#)
- Handling of helicopters in a hangar and in a prepared area [MTC 20-07-01-201](#)
- Helicopter parked in a repair shop [MTC 20-07-02-201](#)
- Recommendations for working at height - Human factors approach [MTC 20-07-02-212](#)
- Instructions applicable during maintenance operations on mechanical assemblies [MTC 20-07-03-401](#)
- Appearance checks on an aircraft after inspection or repair [MTC 20-07-03-408](#)
- Drafting and updating the log card (FM) [MTC 20-08-05-101](#)
- Rules in force applicable for repair and maintenance of aircraft [MTC 20-08-05-102](#)

#### 3.2. Set up

- Handle the helicopter in a hangar and in a prepared area. Refer to [MTC 20-07-01-201](#)
- Park the helicopter in a hangar. Refer to [MTC 20-07-02-201](#)
- Install the applicable access equipment.
- Remove and/or open all applicable cowlings, panels, doors and other items of equipment to get access to the different work areas.

### 3.3. Special Tools

None

### 3.4. Consumables, Materials and Expendables

| Designation         | Reference | MFC   | QTY         |
|---------------------|-----------|-------|-------------|
| Paint, Polyurethane | CM4185    | F0210 | As required |

### 3.5. Spares

None



### 3.6. Safety conditions



## 4. PROCEDURE

- 4.1. Apply the paint lines on the links between the tail rotor hub and the tail rotor splined flange.
  - 4.1.1. Remove the tail rotor hub. Refer to [AMM 64-21-00, 4-1](#) .
  - 4.1.2. Do a check of the torque value of the assembly hub body. Refer to [MTC 20-02-05-404](#) and [AMM 64-21-00, 4-4](#) .
  - 4.1.3. Apply a paint line to the screw (2), washer (3) and tail rotor hub (4) with Paint, Polyurethane (1).
  - 4.1.4. Apply a paint line to the nut (5), washer (6) and splined flange (7) with Paint, Polyurethane (1).

### NOTE

Make sure that the width of the mark is more than 2 mm on both sides.

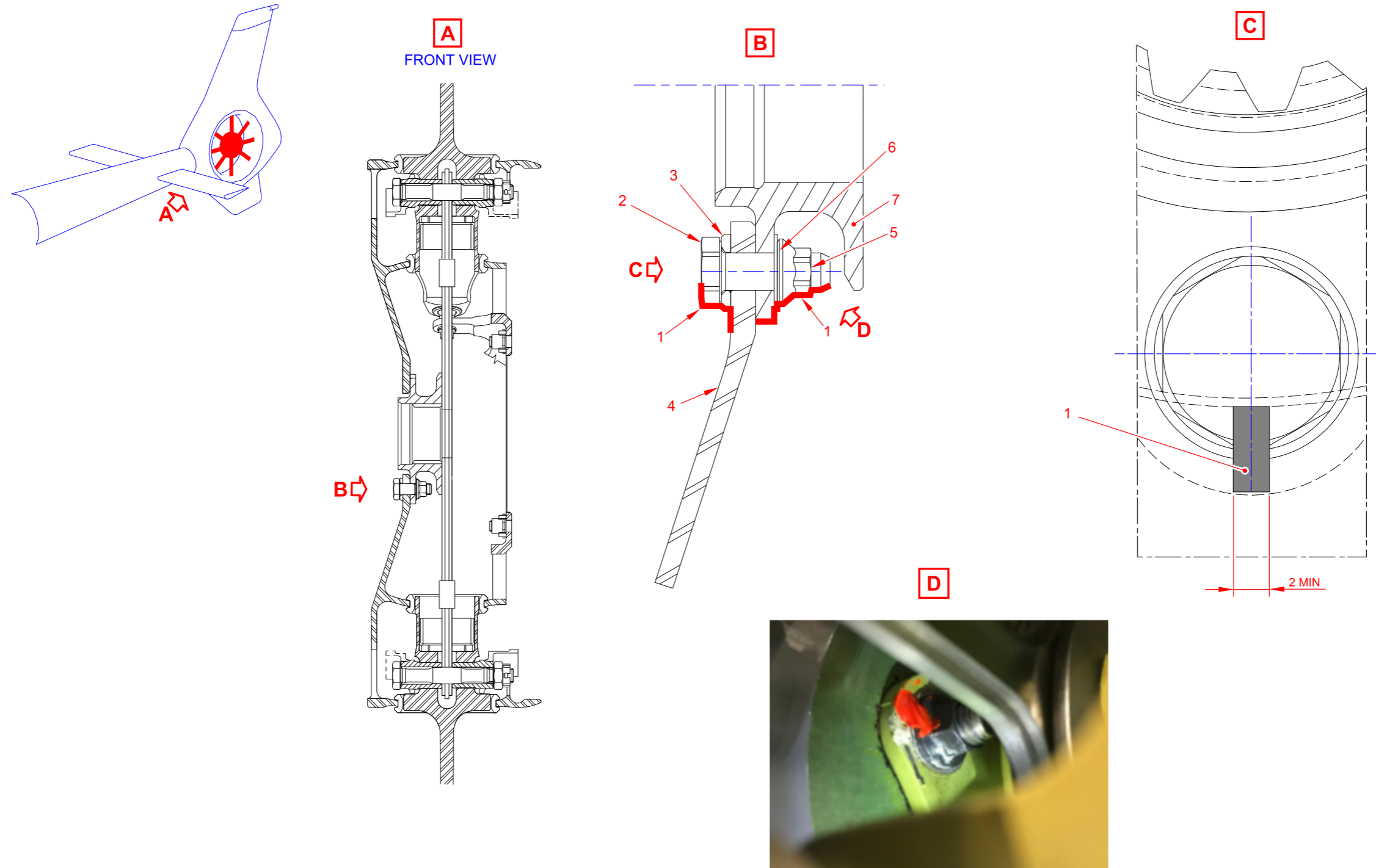


Figure 1

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4.1.5. Install the tail rotor hub. Refer to [AMM 64-21-00, 4-2](#)

## 5. CLOSE UP

- 5.1. Remove all the tools, the materials and the equipment from your work area.
- 5.2. Install or close all cowlings, panels, doors and items of equipment that you removed and/or opened during the set-up.
- 5.3. Clean the work area and the helicopter. Refer to [MTC 20-07-03-408](#)
- 5.4. Remove the access equipment.
- 5.5. Record compliance with this ALERT SERVICE BULLETIN, in the helicopter documents.
- 5.6. Record compliance with this ALERT SERVICE BULLETIN in the Log Card of the main rotor mast. Refer to [MTC 20-08-05-101](#)
- 5.7. Record compliance with this ALERT SERVICE BULLETIN (see IN 3785-I-00 for instructions): QR Code or hypertext link.



[EC120-64-21-0001](#)

End of Service Bulletin