

# SERVICE BULLETIN

DATE: 24 MARCH 2021

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\* Supersedes Service Bulletins SB369H-263R1, SB369D-229R1, SB369E-129R1, SB369F-119R1, SB500N-066R1, and SB600N-080R1, dated 15 May 2020. Revised to delete compliance Method 2 and to add a reoccurring 300-hour borescope inspection of the pilot-to-copilot tail rotor torque tube.

\* Helicopters that are in compliance with SB369H-263, SB369D-229, SB369E-129, SB369F-119, SB500N-066, and SB600N-080, dated 30 January 2020, must add a reoccurring 300-hour borescope inspection of the pilot-to-copilot tail rotor torque tube.

\* Helicopters that are in compliance with SB369H-262, SB369D-228, SB369E-128, SB369F-118, SB500N-065, and SB600N-079 must add a 300-hour borescope inspection of the pilot-to-copilot tail rotor torque tube.

## INSPECTION OF THE PILOT-TO-COPILOT TAIL ROTOR TORQUE TUBE

### 1. PLANNING INFORMATION

#### A. Aircraft Affected:

All 369H, 369HE, 369HS, and 369HM helicopters  
All 369D helicopters  
All 369E helicopters  
All 369F/FF helicopters  
All 500N helicopters  
All 600N helicopters

#### B. Assembly/Components Affected By This Notice:

369H7531-9/-11/-13 Pilot-to-Copilot Tail Rotor Torque Tube

#### C. Reason:

MDHI has received a 369H7531 pilot-to-copilot tail rotor torque tube with a significant spiral crack that seems to have originated from a hole where the tail rotor torque tube control fitting attaches to the torque tube. The crack caused reduced directional control pedal authority.

Failure to comply with this bulletin can cause a loss of anti-torque authority and directional control.

#### D. Description:

Procedures in this bulletin give owners and operators information to do a reoccurring inspection of the tail rotor torque tube for cracks and defects.

#### E. Time of Compliance:

For helicopters with 600 flight hours or less: the Accomplishment Instructions (ref. Procedure 2.A.) in this bulletin must be completed during the next 100-hour inspection and every 300-hour inspection thereafter.

For helicopters with more than 600 flight hours: the Accomplishment Instructions (ref. Procedure 2.A.) must be completed after a maximum of 5 hours of flight time. During these 5 flight hours, flights with increased, excessive, or rapid pedal movements must be limited. Perform (ref. Procedure 2.A.) the 300-hour inspection thereafter.

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## F. FAA Approval:

The technical design aspects of this bulletin are FAA-approved.

## G. Manpower:

Compliance with this bulletin will be approximately one (1) man-hour.

## H. Interchangeability:

None.

## I. Points of Contact:

For further assistance, contact MDHI Field Service at:

<https://www.mdhelicopters.com/contact.html>

## J. Material/Part Availability:

Contact MDHI Spare Sales for parts availability at:

<https://www.mdhelicopters.com/contact.html>

| REPLACEMENT PARTS/SUPPLIES              |                    |      |        |
|-----------------------------------------|--------------------|------|--------|
| Nomenclature                            | Part No.           | Qty. | Source |
| Pilot-to-Copilot Tail Rotor Torque Tube | 369H7531-9/-11/-13 | 1    | MDHI   |

## K. Warranty Policy:

Contact MDHI Warranty for prices, orders, availability, and service at:

<https://www.mdhelicopters.com/contact.html>.

Standard warranty policy applies.

Additional discrepancies found over and above the specified warranty coverage is the responsibility of the customer.

## L. Disposition of Parts Removed:

Return the removed part to an authorized service center or MDHI with a completed Service Operation Report (SOR).

Fill out a Service and Operations Report (SOR) at <https://www.mymd.aero/dashboard> (select the **SUPPORT** dropdown menu, and then select **New SOR**).

## M. Tooling:

Contact MDHI Spares Sales for parts availability at:

<https://www.mdhelicopters.com/contact.html>.

| TOOLS AND EQUIPMENT |                                     |
|---------------------|-------------------------------------|
| Nomenclature (Item) | Source<br>(Manufacturer / Supplier) |
| Borescope           | Commercially Available              |

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## **N. Weight and Balance:**

N/A

## **O. Electrical Load Data:**

N/A

## **P. Other Publications Affected:**

N/A

## **Q. Reference Publications:**

Refer to the latest revision of these publications for procedures and additional information:

Civil Aviation Authority of New Zealand Continuing Airworthiness Notice (CAN) 27-014

CSP-H-2 Basic Handbook of Maintenance Instructions

CSP-H-7 Illustrated Parts Catalog

CSP-HMI-2 Basic Handbook of Maintenance Instructions – Servicing and Maintenance

CSP-IPC-4 Illustrated Parts Catalog

## **2. ACCOMPLISHMENT INSTRUCTIONS**

**NOTE:** The left-hand command installation is shown. The procedures for the right-hand command are the same.

### **A. Borescope Inspection of the Pilot-to-Copilot Tail Rotor Torque Tube**

(Ref. Figure 1)

- (1). Get access to the inspection area, as necessary.
- (2). Examine the exterior of torque tube (1) with a bright light and a mirror for cracks, elongation, and other damage.

**NOTE:** Remove panels and components as necessary to get access. (Ref. CSP-HMI-2)

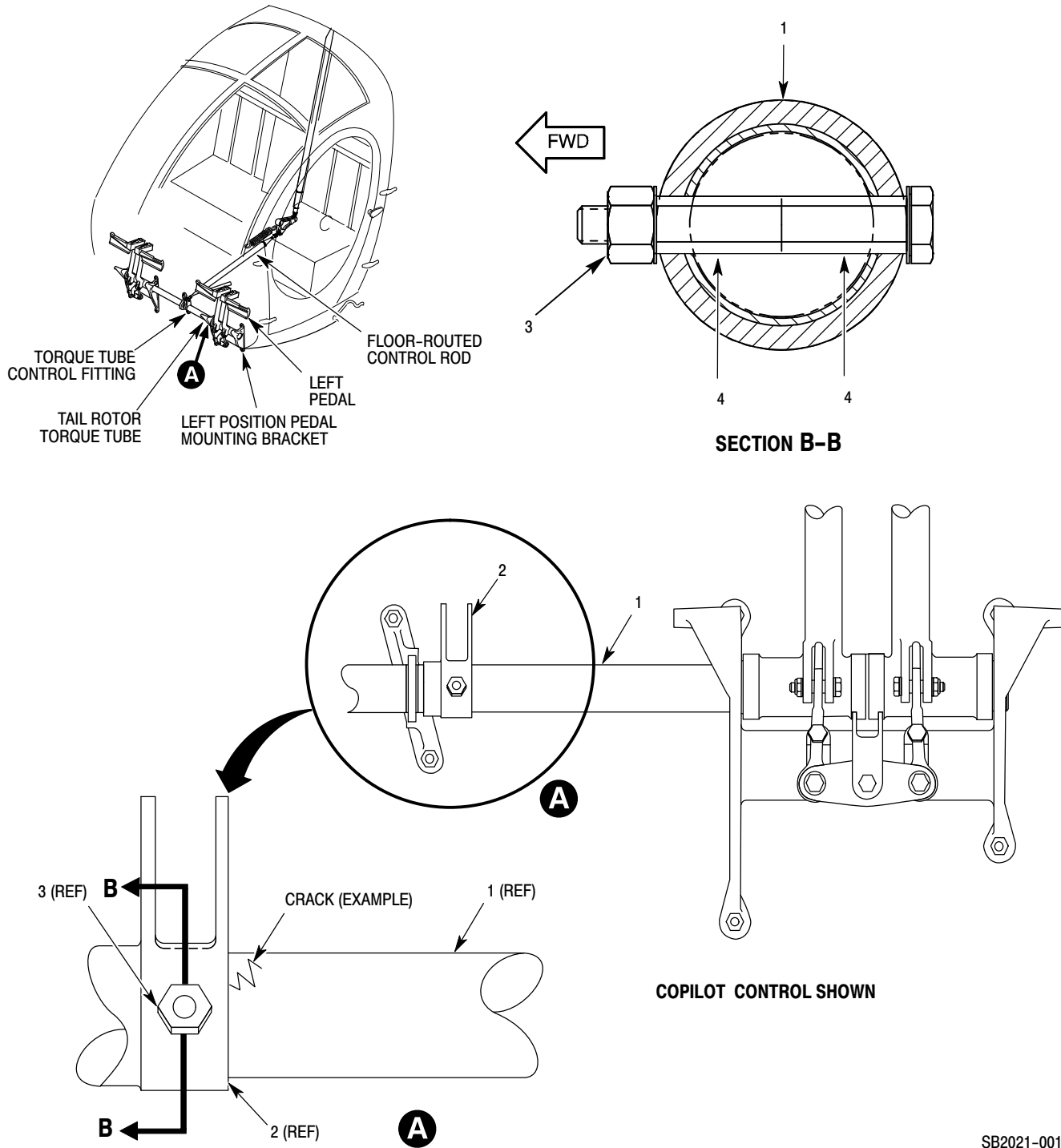
- (3). Examine the interior of torque tube (1) with a borescope for cracks, elongation, and other damage.
  - (a). Fully examine the area around the interface of torque tube (1) and bushing segments (4).
  - (b). Replace a torque tube with cracks, elongation, or damage. (Ref. CSP-HMI-2, 67-20-10, Removal / Installation, procedures 5. or 6.)
- (4). Examine the tail rotor torque tube interior with a borescope at every 300-hour inspection.

### **B. Deleted**

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**Figure 1. Borescope Inspection of the Torque Tube**

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## Legend (Ref. Figure 1)

- |                                             |                    |
|---------------------------------------------|--------------------|
| 1. TORQUE TUBE, PILOT-TO-COPILOT TAIL ROTOR | 3. NUT             |
| 2. CONTROL FITTING, TAIL ROTOR TORQUE TUBE  | 4. BUSHING SEGMENT |

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### C. Compliance Record

- (1). Record compliance to this Service Bulletin in the Compliance Record Log (ref. CSP-RLB-L8) of the Rotorcraft Log Book CSP-RLB.
- (2). Show compliance with this Service Bulletin by one of these methods:
  - (a). Complete a Service Operation Report (SOR) at <https://www.mymd.aero/dashboard>.
  - (b). Put an entry in your <https://www.mymd.aero/> account.
  - (c). Return the Pilot-to-Copilot Tail Rotor Torque Tube to MDHI. (Ref. Procedure 1.L., Disposition of Parts Removed)
  - (d). Mail a copy or e-mail a scanned copy of the Bulletin Completed Record to your MDHI Field Service Representative.

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## Bulletin Completed Record

### Inspection of the Pilot-to-Copilot Tail Rotor Torque Tube

MD Helicopters, Inc.  
Field Service  
4555 East McDowell Road  
Mesa, AZ 85215-9734

Phone: 480-346-6300 or 1-480-346-6300 (International)  
Website: <https://www.mdhelicopters.com/contact.html>  
Or contact your Field Service Representative.

|                      |       |                           |       |
|----------------------|-------|---------------------------|-------|
| Owner/-<br>Operator: | _____ | Helicopter<br>Serial No.: | _____ |
| Address:             | _____ | Helicopter<br>Total Time: | _____ |
|                      | _____ | Date Complete:            | _____ |
|                      | _____ | Location:                 | _____ |
|                      | _____ |                           |       |
| Phone:               | _____ |                           |       |
| E-mail:              | _____ |                           |       |

This bulletin is complete: \_\_\_\_\_  
(Signature)  
\_\_\_\_\_  
(Print Name)  
\_\_\_\_\_  
(Title)

Comments: \_\_\_\_\_  
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