



# SERVICE BULLETIN

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## TAIL ROTOR BLADE ASSEMBLY, ONE TIME INSPECTION

### 1. PLANNING INFORMATION

#### A. Aircraft Affected:

MD Helicopters, Inc. (MDHI) helicopters 369 (Army YOH-6A), 369A (Army OH-6A), 369H, 369HM, 369HS, 369HE, 369D, 369E, 369F, and 369FF, that have affected tail rotor blades installed. This bulletin also applies to all affected part numbers in spares storage.

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

Assy. No/Part No.	Nomenclature	Serial No.	Model	Source
369A1613 (all dash numbers)	Blade Assembly	All	A/H	MDHI
369D21606 (all dash numbers)	Blade Assembly	All	D/FF	MDHI
369D21613 (all dash numbers)	Blade Assembly	All	D/E	MDHI
369D21615 (all dash numbers)	Blade Assembly	All	D/E	MDHI
421-088 (all dash numbers)	Blade Assembly	All	A/D/E	MDHI
369A1620	Rotor Assy, Tail	REF	A/H	MDHI
369D21600	Installation, Rotor Assy, Tail	REF	D	MDHI
369D21600-501	Installation, Rotor Assy, Tail	REF	D/E	MDHI
369D21600-503	Installation, Rotor Assy, Tail	REF	D/E	MDHI
369D21600-505	Installation, Rotor Assy, Tail	REF	FF	MDHI
369D21610	Rotor Assy, Tail (Four Blade)	REF	D	MDHI
369D21610-501	Rotor Assy, Tail (Four Blade)	REF	D/E	MDHI
369D21610-503	Rotor Assy, Tail (Four Blade)	REF	D/E	MDHI
421-089	Installation, Rotor Assy, Tail	REF	A/D/E	MDHI

#### C. Reason:

Reports from the field have shown that there are tail rotor blades in operation with a machining defect. These blades have a sharp transition in the tapered end of the root fitting bore that can cause the tail rotor blade root fitting to fail. A crack in the tail rotor blade root fitting can result in the loss of the tail rotor and loss of directional control of the aircraft.

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## D. Description:

Procedures in this bulletin provide owners and operators with information pertaining to inspection of the tail rotor blade assembly. Tail rotor blades must be serviceable per this bulletin, CSP-H-2 Handbook of Maintenance Instructions, CSP-H-5 Component Overhaul Manual CSP-HMI-2 Handbook of Maintenance Instruction and CSP-COM-5 Component Overhaul Manual.

## E. FAA Approval:

The technical design aspects of this bulletin are FAA approved.

## F. Manpower:

Part 1: 0.1 man-hours.

Part 2: 2.0 man-hours.

## G. Time of Compliance

**Part 1:** Complete the requirements of Part 1 prior to the next flight.

**Part 2:** Complete the requirements of this bulletin prior to the continuation of normal aircraft operation.

## H. Interchangeability:

None

## I. Material/Part Availability:

Parts/supplies can be obtained from MDHI Authorized Service Centers and locally from commercial sources.

## J. Replacement Parts/Labor Policy:

MDHI will provide Authorized Service Centers not more than 0.1 hours of labor credit (spares credit) to verify the part number of the tail rotor blade assembly installed.

Blade assemblies with sharp transitions are not acceptable and will be retained by the operator for future disposition from MDHI.

If the affected tail rotor blade part numbers are installed, MDHI will provide an additional 2.0 hours of labor credit (spares credit) for an authorized service center to remove and replace the tail rotor blade assembly and balance the tail rotor assembly.

If there are unserviceable components relative to the criteria in this bulletin, MDHI will provide replacement parts on a pro-rated basis to the customer.

**NOTE:** MDHI will not provide labor credit (spares credit) until the Bulletin Compliance Recording Form is received by the MDHI Field Service Department.

## K. Tooling:

N/A

## L. Weight and Balance:

N/A

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**MANDATORY****M. Electrical Load Data:**

N/A

**N. Other Publications Affected:**

N/A

**O. Points of Contact**

For further assistance, contact your local MDHI Field Service Representative or contact the Field Service Department at MDHI, Mesa, Arizona.  
Telephone 1-800-388-3378 or (480) 346-6387.  
DATAFAX: (480) 346-6813.

**2. ACCOMPLISHMENT INSTRUCTIONS****A. Part 1: Tail Rotor Blade Inspection**

- (1). Check the part number of the blade assembly on the aircraft.
- (2). If the blade assembly part number is not one of the part numbers listed in this bulletin then the blade assembly is serviceable. Complete Part 1 of the Bulletin Compliance Recording Form and submit to MDHI.
- (3). If the blade assembly part number is one of the part numbers listed by this bulletin complete Part 1 of the Bulletin Compliance Recording Form and continue with Part 2 of this bulletin.

**B. Part 2: Removal, Inspection, Installation And Balancing Of The Tail Rotor Assembly**

- (1). Remove tail rotor, blade assembly from aircraft (Ref. CSP-H-2 or CSP-HMI-2, Sec. 64-10-00, and CSP-H-5 or CSP-COM-5, Sec. 64-20-10, 64-20-20).
- (2). Remove bushings and tail rotor blade crush washers from tail rotor blade assembly. Tag and identify the bushings and tail rotor blade crush washers to their applicable holes and blade locations.

**NOTE:** When installing the same blade on the aircraft, the bushings and tail rotor crush washers can be reused. Bushings and tail rotor blade crush washers must be installed in the same hole from which they were removed (Ref. CSP-H-2 or CSP-HMI-2, Sec. 64-10-00, and CSP-H-5 or CSP-COM-5, Sec. 64-20-10, 64-20-20).

- (3). Clean the internal bore of the tail rotor blade root fitting with CM217 Isopropyl alcohol and CM819 Kimwipe (or equivalent).



Do not fill the blade with alcohol.

- (4). Use a bright light to inspect the bore of the tail rotor blade root fitting (Ref. Figure 1). Make sure the transition from the bore to the tapered end has a smooth radius (Ref. Figure 2).
- (5). A tail rotor blade assembly that is not acceptable will have a sharp transition (Ref. Figure 2)
- (6). Replace all blade assemblies that are missing a smooth radius (Ref. Figure 2).

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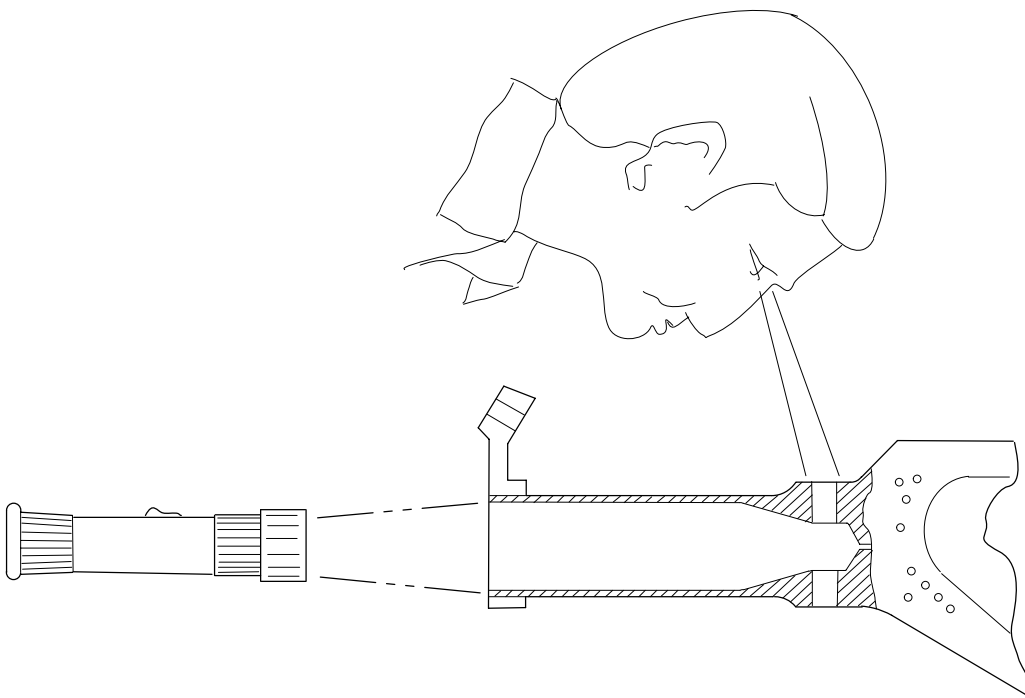
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- (7). Install serviceable blade assembly on aircraft (Ref. CSP-H-2 or CSP-HMI-2, Sec. 64-10-00, and CSP-H-5 or CSP-COM-5, Sec. 64-20-10, 64-20-20).
- (8). Complete Part 2 of the Bulletin Compliance Recording Form and submit to MDHI.



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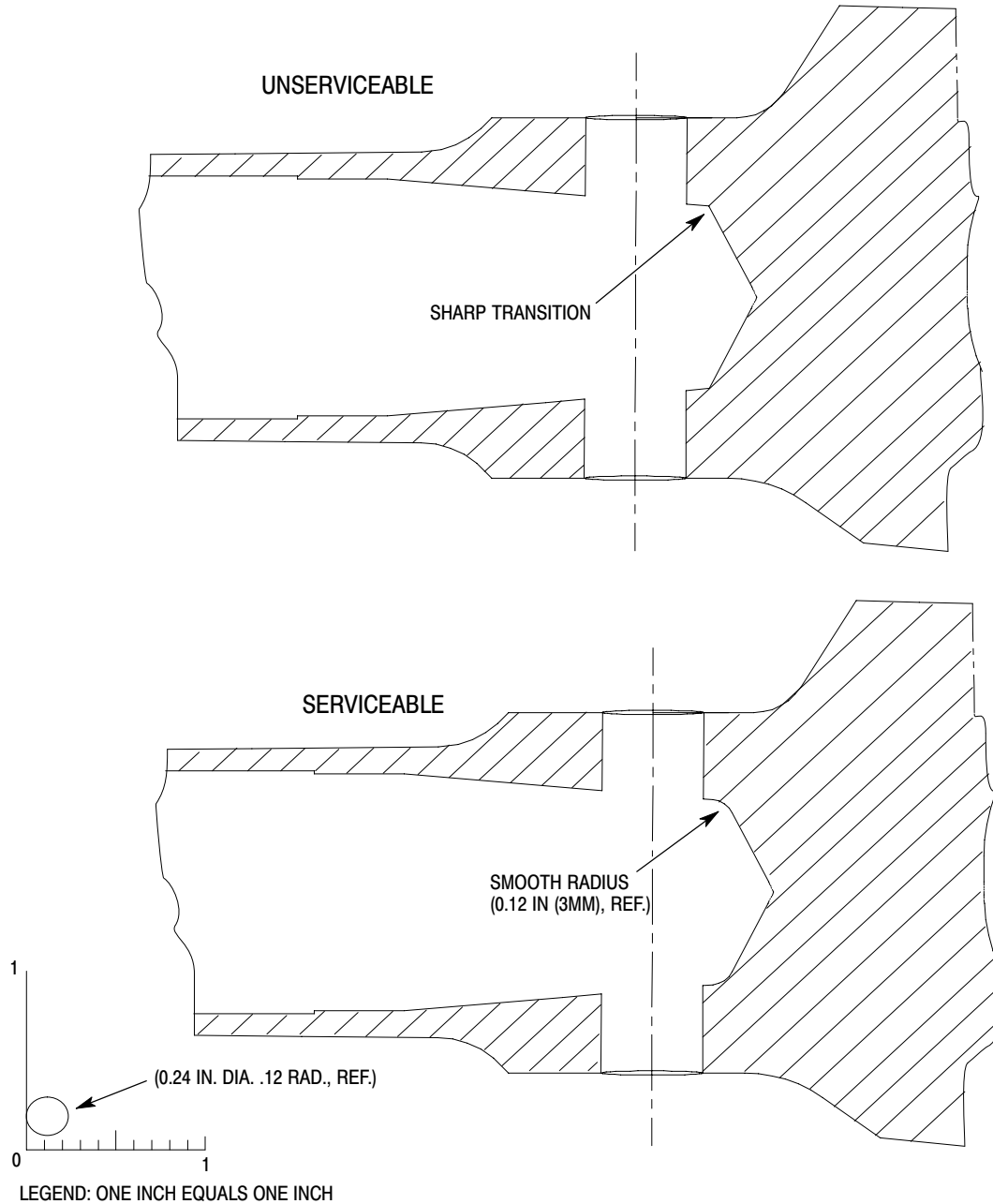
**Figure 1. Method for Visual Inspection of the Root Fitting**

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NOTE: 1. PITCH BEARING REMOVED FOR CLARITY  
2. THIS DRAWING IS A SCALE REPRESENTATION OF THE T/R BLADE ASSEMBLY AND CAN BE USED FOR COMPARISON.

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**Figure 2. Cross Section of Blade Root Fitting**

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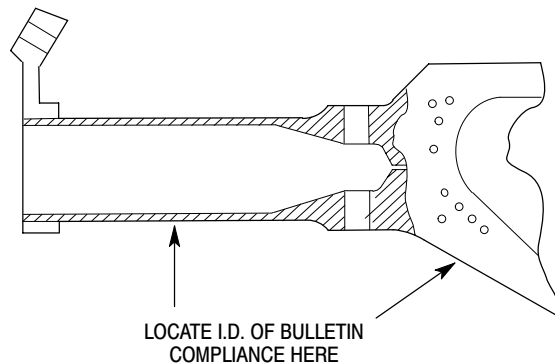
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## 3. IDENTIFICATION

- (1). Upon completion of Part 2 of this service bulletin, identify the serviceable tail rotor blade assembly with the service bulletin number applicable to the model of aircraft (Ref. Figure 3).
- (2). 369A operators identify compliance of this bulletin with "369A 4/26/07".
- (3). The identification will be made with CM312 Ink Stamp Permanent (or equivalent) on the root end of the blade assembly adjacent to the blade assembly data plate and on the trailing edge of the root fitting (Ref. CSP-H-2 or CSP-HMI-2, Sec. 91-00-00).
- (4). Once the ink stamp has dried, coat the identification marking with CM314 Varnish, Moisture Resistant (or equivalent) and allow to cure (Ref. CSP-H-2 or CSP-HMI-2, Sec. 91-00-00).



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**Figure 3. Location of Bulletin Compliance I.D.**

## 4. DISPOSITION OF PARTS REMOVED

Remove parts from service that are not acceptable and retain for future disposition from MDHI.

## 5. COMPLIANCE RECORD

Record compliance of this Service Bulletin in the Compliance Record section of the Rotorcraft Log Book.

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SB369H-247  
SB369D-204

SB369E-099  
SB369F-084

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## Service Bulletin SB369H-247, SB369D-204, SB369E-099, SB369F-084, One Time Inspection of the Tail Rotor Blade Assemblies

FAX completed form to MDHI (480) 346-6813 or  
Email to ServiceEngineering@mdhelicopters.com

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

800-388-3378 phone (U.S. and Canada)  
480-346-6387 phone (International)  
480-346-6813 Fax

Attention:

This is to inform you that the Service Bulletin has been complied with as indicated below:

Customer/Operator Name: \_\_\_\_\_

Aircraft Serial No: \_\_\_\_\_

Current Aircraft Registration: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

### **PART 1 Completed (Mandatory)**

Helicopter Total Time: \_\_\_\_\_ Date: \_\_\_\_\_

Part Numbers: \_\_\_\_\_

Serial No. of Parts: \_\_\_\_\_

Time in Service of Parts: \_\_\_\_\_

Address/Location of where work is completed: \_\_\_\_\_

Name, Title and Signature Confirming Compliance: \_\_\_\_\_

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**PART 2 Completed (Circle One)**      **Yes**      **No**      **N/A**

Helicopter Total Time: \_\_\_\_\_ Date: \_\_\_\_\_

Part No: \_\_\_\_\_

Serial No. of Part: \_\_\_\_\_

Part Time in Service: \_\_\_\_\_

Address/Location of where work is completed: \_\_\_\_\_

Results of Service Bulletin: \_\_\_\_\_

Name, Title and Signature Confirming Compliance: \_\_\_\_\_

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