



SB369H-240
SB369E-085
SB500N-013

SB369D-192
SB369F-072
SB600N-003

SERVICE BULLETIN

DATE: 26 SEPTEMBER 1997
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INPUT SHAFT COUPLING ASSEMBLY INSPECTION

1. PLANNING INFORMATION:

A. Aircraft Affected:

All MD Helicopters, Inc. (MDHI) 369H Series, 369D, 369E, 369FF, 500N and 600N Series Helicopters equipped with 369F5133-1 Input Shaft Coupling Assemblies. All 369F5133-1 Input Shaft Coupling Assemblies in spares inventories.

B. Assembly/Components Affected by this Notice:

Input Shaft Coupling Assemblies (P/N 369F5133-1, serial numbers 030829-0126 thru 030829-0207) installed on main transmission (P/N 369F5100-503) input shafts and overrunning clutches (P/N 369F5450).

C. Reason:

Input shaft coupling assemblies (P/N 369F5133-1) have been returned from operators in the field due to observed pitting on the internal spline teeth. Further examination indicates that the corrosion pitting is occurring below the solid film lubricant layer. Failure to comply with the requirements of this Bulletin may cause premature failure of spline teeth and subsequent loss of drive to the main rotor system resulting in an emergency landing situation.

D. Description:

Procedures in this Bulletin provide owners and operators with information pertaining to removing affected input shaft coupling assemblies, inspecting those couplings for unacceptable conditions and, as required, replacing them with acceptable couplings.

E. FAA Approval:

The technical design aspects of this Service Bulletin are FAA Approved.

F. Manpower:

One (1) man-hour is required to inspect input shaft couplings for affected serial numbers and an additional two (2) man-hours if the input shaft coupling has to be replaced.

G. Time of Compliance:

The requirements of this Bulletin shall be accomplished within the next 100 hours of helicopter operation or no later than 31 December 1997.

H. Interchangeability:

None

I. Material/Part Availability:

Contact MDHI Field Service Dept.

REPLACEMENT PARTS/SUPPLIES			
Nomenclature	Part No.	Qty.	Source
Input Shaft Coupling	369F5133-1	1	MDHS

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J. Warranty Policy:

MDHI will provide replacement parts at no cost to the operator. Contact MDHS Commercial Warranty and Repair Department for replacement parts.

K. Tooling:

N/A

L. Weight and Balance:

N/A

M. Electrical Load Data:

N/A

N. Other Publications Affected:

N/A

2. ACCOMPLISHMENT INSTRUCTIONS:

- (1). Verify affected serial numbered coupling is installed on helicopter either by Log Book entry or by visual inspection.
- (2). If coupling serial number is one on the affected list, remove coupling per HMI.
- (3). Visually inspect for evidence of pitting under the solid film lubricant in the spline area of the coupling. If there is evidence of pitting in the splines, replace coupling.
- (4). Install acceptable coupling per CSP-HMI-2.

3. DISPOSITION OF PARTS REMOVED:

Return all affected components to MDHI Warranty & Repair within five days of removal.

4. COMPLIANCE RECORD:

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

5. POINTS OF CONTACT:

For further assistance, contact your local MDHI Field Service Representative (refer to the "At Your Service" handbook for address and telephone numbers) or contact the Field Service Department at Boeing, Mesa, Arizona. Telephone: 1-800-388-3378 or (602) 891-6342. DATAFAX: (602) 891-6782.

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PARTS REQUEST FORM: Please fill in the following information and return to Boeing for parts/supplies required for compliance. This form may be faxed to MDHI Warranty and Repair Department at (602) 891-3952.

Aircraft Ser. No. _____

Aircraft Total Time _____

Date _____

Part Ser. No. (if required) _____

Ship to:

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