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# SERVICE BULLETIN

DATE: 21 NOVEMBER 1990  
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**MANDATORY**

**SUBJECT:** INSPECTION OF T/R INPUT GEARSHAFT (P/N 369D25434) IN THE T/R GEARBOX

**SUMMARY:** A field report indicated that the 369D25434 T/R input gearshaft was found to have chipped gear teeth. As a result, MDHC investigation has revealed that some of the subject gears may not meet minimum hardness requirements. Suspect gears have been found to have come from the same lot of 65 serialized gears which are listed below (see assembly/components to be inspected and corrected).

**PURPOSE:** The purpose of this Notice is to verify the serial number of the T/R input gear installed in all aircraft and remove from service those suspect serial number T/R input gears.

**MODELS AFFECTED:** All McDonnell Douglas Helicopter Company (MDHC) 369D/E/F/FF Series helicopters.

**TIME OF COMPLIANCE:** The requirements of this Notice shall be accomplished within the next 300 hours of helicopter operation (See the following note).

### NOTE

If the serial number of the gearshaft is unknown, then the tail rotor gearbox must be disassembled within 300 hours of helicopter operation for verification of serial number.

**ASSEMBLY/COMPONENTS TO BE INSPECTED AND CORRECTED:** 369D25434 T/R Input Gearshaft, serial numbers 0569 thru 0633.

**REFERENCE PUBLICATIONS:** (Use the manuals listed below or any later revisions.)  
369D/E/FF COM (CSP-DEF-5) Revised 29 September 1989

### SUPPLY/PARTS:

#### PARTS LIST

Nomenclature	Part No.	Qty.	Source
T/R Input Gearshaft Assembly, T/R Gearbox	369D25434	A/R	MDHC Warranty and Repair Dept.
Packing	2-152-47-071 2-032-474371 (option)	A/R	MDHC Warranty and Repair Dept.
Shim	369D25414	A/R	MDHC Warranty and Repair Dept.
Shim	369D25416	A/R	MDHC Warranty and Repair Dept.
Shim	369D25436	A/R	MDHC Warranty and Repair Dept.

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**WARRANTY DISPOSITION:** MDHC will provide a labor allowance of 2.8 hours to remove and reinstall the tail rotor transmission. A labor allowance of 4 hours will be provided for the removal and replacement of the 369D25434 gearshaft

All labor shall be performed at a MDHC Approved Service Center at that Service Center's standard labor rate.

**SPECIAL TOOLS/JIGS AND FIXTURES REQUIRED.** N/A.

## AIRCRAFT INSPECTION AND CORRECTION PROCEDURES:

a. Research helicopter/aircraft records (log book or component overhaul log card) to determine if any of the following serial number T/R gearshaft assemblies are installed. If it cannot be determined what serial number gearshaft is installed, remove the T/R gearbox assembly per CSP-HMI-2 and disassemble per the COM for the T/R gearbox as required to gain access to the gearshaft serial number.

b. Remove the following serial number gearshaft from service and return to MDHC Warranty and Repair Department for an acceptable replacement gearshaft.

Serial Number Gearshafts: 0569 thru 0633.

### **NOTE**

Gearshafts should be returned to MDHC Warranty and Repair Department accompanied by a SOR requesting labor.

**WEIGHT AND BALANCE:** N/A.

## RECORDING AND COMPLIANCE:

Record T/R gearshaft serial number and record compliance to this Service Information Notice in the Compliance Record section of the helicopter Log Book.

## POINTS OF CONTACT:

For further information contact your local MDHC Field Service Representative (refer to the latest revision of the MD500 Customer Support handbook for address and telephone numbers) or contact the Field Service Department at MDHC, Mesa, Arizona. Telephone: 1-800-445-1516 or (602) 891-6342. For Warranty issues, contact the MDHC Warranty and Repair Department at (602) 891-8565.

The resultant alteration to affected models as described by procedures in this Notice have been shown to comply with Federal Aviation Regulations and is FAA Approved.

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