

**HUGHES
SERVICE INFORMATION
NOTICE**

NOTICE NO. HN-61

DATE 31 JULY 1973

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FAA APPROVED

**SUBJECT: PERIODIC INSPECTION - MAIN TRANSMISSION RING GEAR
BOLTS, PN 369A5174 OR 369A5145**

MODELS AFFECTED: All Model 369H Series Helicopters

TIME OF COMPLIANCE: Shall be accomplished at next scheduled main transmission oil change, and at each 150 hours of helicopter operation thereafter.

PREFACE: The information given in this Service Information Notice lists a procedure for a periodic inspection of the subject main transmission ring gear bolts to ensure that the bolts and lockwire are intact and in proper condition. Also included is a procedure which will modify operating limits on rotor brake installation where installed.

The inspection is applicable to all 369H Series helicopters equipped with the new type* 369A5174 ring gear bolts or old type 369A5145 ring gear bolts. Main transmissions equipped with 369A5174 ring gear bolts are identified by the letter "B" following the gearbox serial number.

It is to be noted that the rotor rpm for engagement of the rotor brake will be reduced from 70 percent (330 rpm) to 50 percent (235 rpm). This change in Operating Limitations (Section I) for rotor rpm will be incorporated in a forthcoming revision to the referenced rotor brake RFM Supplement. Application of the rotor brake shall be in accordance with Operating Procedures (Section II) as given in the referenced RFM Supplement.

Reference

500 Series - Basic HMI, Issued 1 October 1972; Revision No. 2, 1 July 1973
500 Series - HMI Appendix A, Issued 1 October 1972; Revision No. 1, 1 July 1973
Rotorcraft Flight Manual Supplement - Rotor Brake PN 369H90123, 16 January 1973
Hughes Service Information Notice No. HN-56, dated 6 March 1973

*Installed per referenced Notice No. HN-56 or factory installed.

INSPECTION PROCEDURE

a. Drain main transmission, per Basic HMI.

b. With sight gage removed, visually inspect all ring gear bolts and lockwire for condition and security. Use an adequate light source; rotate main rotor 360 degrees to determine that all sixteen (16) bolts and lockwire are intact. Also check visible areas of ring gear and carrier for cracks or other discrepancies.

NOTE

If damage (bolt heads sheared, lockwire broken, cracks or other discrepancies) is noted, replace or overhaul main transmission per HMI Appendix C.

c. Reinstall sight gage and fill main transmission with proper oil, per Basic HMI.

d. Record compliance with this Service Information Notice in Compliance Record of helicopter Log Book.

NOTE

The referenced Rotorcraft Flight Manual Rotor Brake Supplement will be revised to reflect the following information:

SECTION I

OPERATING LIMITATIONS

1. The rotor brake is to be applied only after the helicopter is on the ground and the engine is shut down (rotor rpm 50 percent (235 rpm) or less).

SECTION II

OPERATING PROCEDURES

Application of the rotor brake shall be in accordance with the following procedures.

NOTE

Application of the rotor brake shall be in accordance with SECTION II OPERATING PROCEDURES as given in the RFM Supplement.

WEIGHT AND BALANCE DATA

Weight and balance not affected.