



SERVICE BULLETIN

DATE: 7 AUGUST 1972

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* Supersedes Service Information Notice No. HN-53, Dated 24 July 1972

369A5400 SERIES TAIL ROTOR GEARBOX – REVISED OVERHAUL SCHEDULE (TBO) AND COMPONENT FINITE LIFE (INPUT GEAR SHAFT ASSY)

1. PLANNING INFORMATION

A. MODELS AFFECTED:

All Model 369H Series Helicopters

B. PREFACE:

The finite life for the 369A5425 and 369A5425-3 tail rotor transmission input gearshaft assemblies (input part of the 369A5406 tail rotor gear set) has been reduced from 2940 hours to 1800 hours. The component overhaul schedule (TBO) for the 369A5400 series tail rotor gearbox has been increased from 1200 hours to 1800. hours.

PART I of this Service Information Notice lists instructions for revising the helicopter Log Book, as applicable, to record both the input and the output gearshaft assemblies incorporated in the 369A5406 tail rotor gear set. Separate entries for the input and output gearshaft assemblies are required, since the finite life of 2940 hours is still applicable for the 369A5408 and 369A5408-3 output gearshaft assemblies (output part of 369A5406 gear set).

PART II of this Notice lists a procedure for retirement and replacement of the 369A5425 and 369A5425-3 input gearshaft assemblies (input part of 369A5406 gear set) in compliance with the times specified above, and for recording the individual input and output gearshaft part numbers in the helicopter Log Book.

It is noted that a newly designed 369A5425-5 input gearshaft assembly having a finite life of 27,600 hours will soon be available. Owners and operators will then have the option of (1) replacing an expired input gearshaft assembly with a new 369A5425-5 assembly having a finite life of 1800 hours, or (2) replacing an expired input gearshaft assembly with a new 369A5425-5 assembly having a finite life of 27,600 hours, or (3) returning the expired input gearshaft assembly to HTC-AD for rework to the new 369A5425-5 configuration having a 27,600 hour finite life.

Under the exchange program, HTC-AD will rework an existing 369A5425 or 369A5425-input gearshaft assembly to the new 369A5425-5 configuration or \$95.85. With the installation of the 369A5425-5 gearshaft assembly, the tail rotor gearbox assembly is upgraded and reidentified as the 369A5400-607 configuration.

C. TIME OF COMPLIANCE:

PART I - Shall be accomplished at next 100-hour inspection.

PART II - Shall be accomplished at next 100-hour inspection or at 1800 hours time in service for 369A5425 or 369A5425-3 input gearshaft assemblies (input part of 369A5406 tail rotor gear set) having less than 1800 hours time in service at date of this Notice.

Shall be accomplished within next 100 hours time in service for 369A5425 or 369A5425-3 input gearshaft assemblies (input part of 369A5406 tail rotor gear set) having 1800 or more hours time in service at date of this Notice.

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D. WEIGHT AND BALANCE:

Weight and balance not affected

E. REFERENCE:

500 Series - Basic HMI, Issued 1 December 1971; Revision No. 1, 10 May 1972

500 Series - HMI Configuration Supplement M, Revised 1 December 1971

500 Series - HMI Configuration Supplement S/E, Revised 1 December 1971

PART I - REVISION OF HELICOPTER LOG BOOK (COMPONENT RECORD)

a. As applicable, record the following two entries in place of the single entry in the Log Book for 369A5406 Tail Rotor Gear Set (Serial number of gear set is applicable to both gearshaft assemblies):

Gear Set, Tail Rotor - Input Shaft 369A5406

Gear Set, Tail Rotor - Output Shaft 369A5406

NOTE: No action is required if separate entries for 369A5425 (or 369A5425-3) input gearshaft and 369A5408 (or 369A5408-3) output gearshaft are presently recorded in Log Book.

b. Record compliance with Part I of this Service Information Notice in Compliance Record of helicopter Log Book.

PART II - RETIREMENT AND REPLACEMENT OF INPUT GEARSHAFT ASSEMBLY

a. Remove tail rotor drive shaft and transmission as a unit (Refer to Section 9 of referenced Basic HMI).

b. Remove tail rotor from tail rotor transmission.

c. Remove coupling bolt, coupling and coupling shims from input gearshaft. Keep shims with coupling for reuse.

d. Drain oil from gearbox.

e. Perform component overhaul of tail rotor transmission assembly, in accordance with instructions provided in Section 3 of referenced HMI Appendix C.

NOTE:

1. Install new 369A5425-3 (1800 hour finite life) or 369A5425-5 (27600 hour finite life) input gear-shaft assembly.

2. As required, install new 369A5408-3 (2940 hour finite life) output gearshaft assembly.

3. Replace existing 369A5188 input shaft oil seal with new 369A5188 or new 269A6063 input shaft oil seal.

4. Replace existing 369A5419 output shaft oil seal with new 369A5419 or with new 269A6063-3 output shaft oil seal if output shaft is removed.

5. When 369A5425-5 input gearshaft assembly is installed. reidentify tail rotor gear box configuration as 369A5400-607.

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- f. Build up and install tail rotor transmission, per Basic HMI.
- g. Record installation of new 369A5425-3 or 369A5425-5 input gearshaft assembly (including serial number) in Component Record of helicopter Log Book.
- h. As applicable, record installation of new 369A5408-3 output gearshaft assembly (including serial number) in Component Record of helicopter Log Book.
- i. Record compliance with Part II of this Service Information Notice in Compliance Record of helicopter Log Book.

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