



# HUGHES SERVICE INFORMATION NOTICE

NOTICE NO. N-113

DATE 3 March 1974

PAGE 1 OF 4

MANDATORY

FAA APPROVED

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**SUBJECT:** GREASE QUANTITY REQUIREMENTS -  
BELT DRIVE TRANSMISSION  
LOWER PULLEY BEARING P/N 269A5050-57

**MODELS AFFECTED:** All 269A, 269A-1, 269B Helicopters Equipped with  
the subject 269A5050-57 bearing.  
269C Helicopters Serial No. 0001 through 0249,  
0251 through 0253, 0256 through 0260. Equipped  
with the subject 269A505057 bearing.  
All 269A5050-57 bearings in spares inventory.

**TIME OF COMPLIANCE:** Part I. Repack.  
Shall be accomplished on in-service bearings within  
the next 100 hours of helicopter operation.  
Shall be accomplished on bearings in spares inventory  
prior to being placed in service.  
Part II. Inspection.  
Following compliance with Part I; at each and every  
300 hours of helicopter operation.

**PREFACE:** The Grease Quantity Requirement for the subject  
bearing has been revised upward to a 40 percent pack  
of the bearing cavity. The increase provides an  
additional margin of grease in the bearing to insure  
adequate lubricant during the bearings life.  
The information in this Service Information Notice lists  
procedures for removal of, cleaning, unpacking and  
reinstallation of the bearing.

## REFERENCE

269 Series - Basic HMI issued 1 April 1973 Revised (Revision #1) 1 October 1973.

Customer Service Department

## MATERIALS

Solvent - Kerosene\* - Commercial

Grease Aeroshell #7 or Mobil 27 - MIL-G-23827A Commercial

\*Materials specified are primary selections; any equivalent material may be used as an alternate selection.

## TOOLS AND EQUIPMENT

Brush - Medium Bristle - Commercial

Compressed Air Source - Commercial

## PROCEDURE

### Part I.

- a. Remove lower pulley assembly from belt drive assembly and helicopter.
- b. Remove (2) 269A5050-57 bearings from lower pulley assembly by application of pressure on inner race of bearing adjacent to shaft.

### CAUTION

Damage to bearing will result if pressure is applied to outer race. Replace damaged bearings.

### NOTE

Refer to Basic HMI for complete procedures related to steps a and b.

- c. Remove (2) grease seals from each bearing, exercising care not to damage seal.
- d. Using solvent (1 quart minimum), clean container, and brush, clean all old grease and other foreign substances from bearing.
- e. Rinse de-greased bearing in clean solvent (1 quart minimum), using compressed air, dry bearing.

CAUTION

Injury to personnel and damage to the bearing can result if the bearing is spun with air pressure. Direct air blast at right angle to bearing to insure all contaminants are removed.

- f. Using cloth dampened in solvent, clean grease seals.
- g. Inspect bearings (2 ea):
  - 1. Visually for damage.
  - 2. Audibly for roughness.
  - 3. By feel for roughness and notchy operation.

NOTE

A servicable bearing will be smooth and quiet when rotated by hand. Replace any bearing not conforming to the criteria per Step g. Light oil (SAE10 or equivalent) may be used to flush and protect bearing if they are not to be repacked immediately.

- h. Apply a quantity (7.2 gr) of Aero Shell #7 or Mobil 27 to palm of hand.

CAUTION

Do not mix greases in same bearing. Grease may be identified by color. New bearings are furnished with Aero Shell #7, which is a straw color. (Mobil 27 is deep red.)

- i. Using standard hand-pack method fill bearing to 40 percent of cavity capacity; install grease seals.

CAUTION

Damage to bearing will result from over greasing. Apply grease in quantity indicated.

- j. Pack an additional 2.4 gr of grease in all bearings P/N 269A5050-57 in spares inventory. Identify bearings by marking container "40 percent pack."

k. Install bearings on pulley, install pulley in belt drive assembly, reinstall on aircraft. (Refer to Basic HMI)

l. Inspect installation for discrepancies.

m. Perform an operational check of belt drive installation.

n. Record compliance with this Service Information Notice in Helicopter Log Book.

#### WEIGHT AND BALANCE DATA

Weight and balance not affected.

#### Part II.

a. Remove grease seal from bearing (fore and aft). Check bearing for proper grease quantity and condition. Grease as required to provide 40 percent pack in bearing. Repack per Part I if required.