



**HUGHES  
SERVICE INFORMATION  
NOTICE**

NOTICE NO. N-49  
DATE May 8, 1968  
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**SUBJECT:** SHIM INSTALLATION - BEARING, UPPER PULLEY ASSEMBLY

**MODELS AFFECTED:** All 269A/A-1/A-2 and 269B Helicopters.

**TIME OF COMPLIANCE:** At owners/operators discretion.

**PREFACE:**

The information given in this Service Information Notice lists a procedure for the installation of a shim to effect a more positive seating of the bearing in the forward cap assembly, resulting in (1) smoother operation of the upper pulley assembly, and (2) increased service life of bearings and components.

Reference

269A/A-1/TH-55A Handbook of Maintenance Instructions, Reissued 15 Dec. 1967  
269B Handbook of Maintenance Instructions, Reissued 1 April 1968

TOOLS & EQUIPMENT

Micrometer, outside - 1 inch  
Depth gage, vernier

Commercial  
Commercial

- a. Remove belt drive transmission assembly, per REMOVAL- BELT DRIVE TRANSMISSION ASSEMBLY in HMI.
- b. Disassemble belt drive transmission assembly, per DISASSEMBLY - BELT DRIVE TRANSMISSION ASSEMBLY in HMI.
- c. Disassemble upper pulley assembly, per DISASSEMBLY - UPPER PULLEY ASSEMBLY in HMI.

NOTE

Replace any defective parts in upper pulley assembly, i. e., bearings, gaskets, etc.

- d. Press grease klosure (7) into forward cap assembly (5) of upper pulley assembly. (Refer to Figure 1)
- e. Using depth gage, measure distance (A-A) from aft face of forward cap to bearing seat; record dimension A-A.
- f. Using depth gage, measure distance (B-B) from aft face of forward cap assembly to retainer seat; record dimension B-B.
- g. Subtract dimension B-B from dimension A-A, to determine width of bearing seat; record dimension for width of bearing seat.
- h. Using micrometer, measure width (C-C) of bearing; record dimension C-C.
- i. Subtract width of bearing (C-C) from width of bearing seat (dimension recorded in step f.) to determine required thickness of shim.
- j. Peel shim to required thickness; install with wet zinc chromate primer in bearing seat of forward cap assembly.

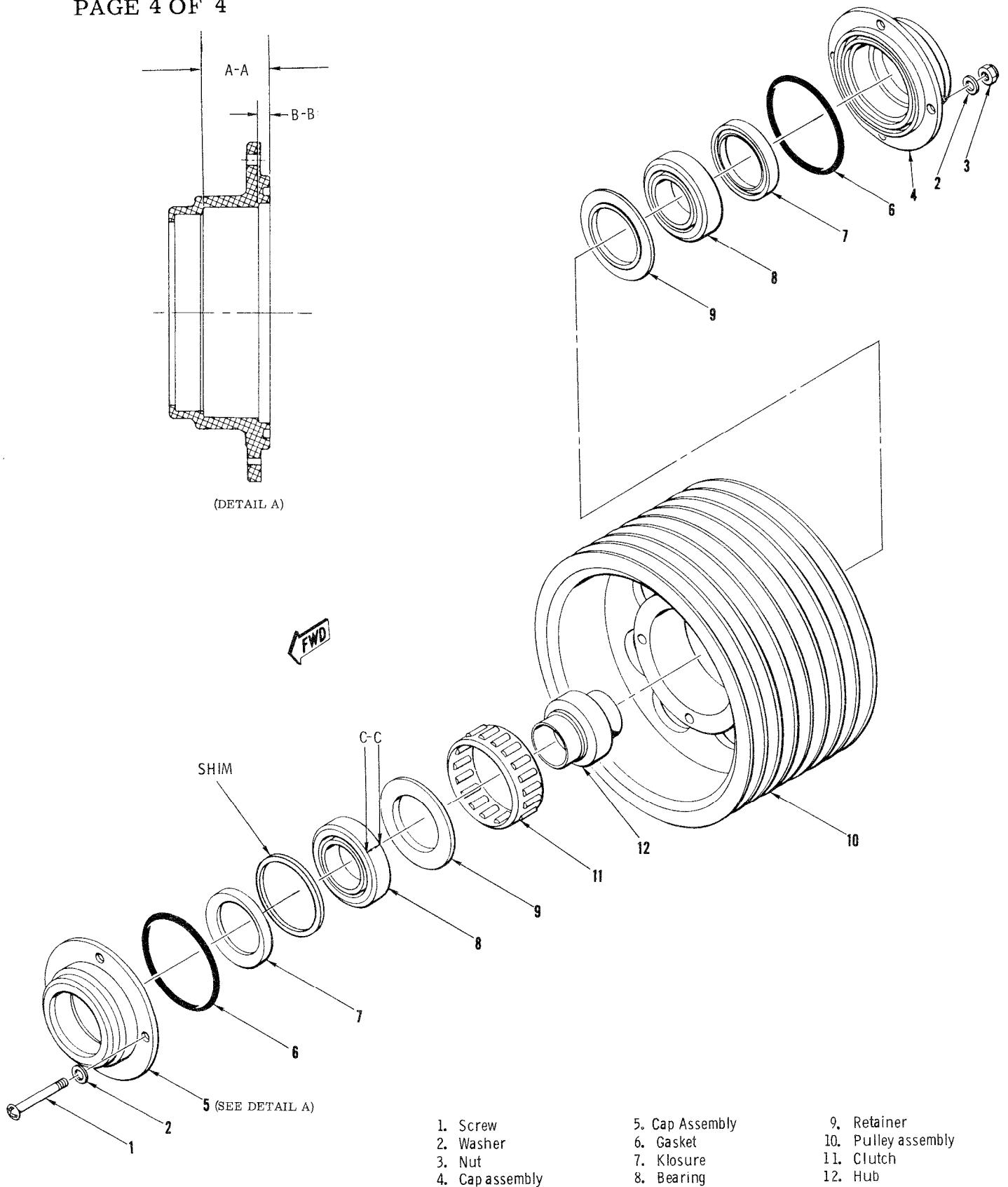
NOTE

M10008-3 shim is 0.020 inch laminated shim stock with 0.002 inch laminations. Peel shim to low side (for example, from 0.009 to 0.008).

- k. Reinstall upper pulley components, per ASSEMBLY - UPPER PULLEY ASSEMBLY in HMI.
- l. Reinstall belt drive transmission assembly, per ASSEMBLY - BELT DRIVE TRANSMISSION ASSEMBLY in HMI.
- m. Check upper pulley shim installation for discrepancies.
- n. Perform operational check of belt drive transmission assembly.

WEIGHT & BALANCE DATA

Weight and balance not affected.



- |                 |                 |                     |
|-----------------|-----------------|---------------------|
| 1. Screw        | 5. Cap Assembly | 9. Retainer         |
| 2. Washer       | 6. Gasket       | 10. Pulley assembly |
| 3. Nut          | 7. Closure      | 11. Clutch          |
| 4. Cap assembly | 8. Bearing      | 12. Hub             |

Figure 1. Upper Pulley Assembly