



HUGHES SERVICE INFORMATION NOTICE

NOTICE NO. N-131

DATE 11 August 1975

PAGE 1 OF 4

MANDATORY

FAA APPROVED

MANDATORY

MANDATORY

SUBJECT: INSPECTION AND POSSIBLE REPLACEMENT THROTTLE GEAR
(PN 269A7223); PILOT'S AND COPILOT'S COLLECTIVE PITCH STICKS

MODELS AFFECTED: All 269A, TH55A, 269A-1 and 269B Helicopters.

All gears installed in Pilot's and Copilot's Collective Pitch
Sticks in Spares inventory.

TIME OF COMPLIANCE: Within the next 25 hours of helicopter operation, inspection
is to be accomplished on a one time basis.

PREFACE: Instances of cracking of the throttle gear have been noted in the field.
This notice provides information for a one time inspection of the gear,
and for replacement of the gear if required.

Reference

269 Series - Basic HMI, Issued 1 April 1973; Revision #2, 1 January 1974.

Customer Service Department

PARTS LIST
(If required)

<u>Nomenclature</u>	<u>Part No.</u>	<u>Qty</u>	<u>Mfr</u>
Gear Shaft Assembly, LH - Outboard	269A7707-7	1	HH
Gear Shaft Assembly, RH - Center	269A7269-3	1	HH
Shim	269A7212	AR	HH

MATERIALS

Dye Penetrant Kit Commercial

TOOLS AND EQUIPMENT

Glass Magnifying 10X Commercial

PROCEDURE

a. Remove from aircraft and disassemble pilot's collective pitch stick, copilot's collective pitch stick, if installed, to gain access to throttle gear. (Refer to HMI.)

b. Determine whether throttle gear has small or large segment. (See Figure 1.)

c. Replace all small segment gears with large segment steel gear and shaft assembly. (Refer to step e. and subsequent, and HMI for gear replacement procedure.)

d. Inspect all large segment aluminum gears for cracks, elongated hole in roll pin area, and other damage using magnifying glass. Inspect gear shaft assembly for corrosion. Determine if radial or axial play exists between the gear and shaft.

1. If cracks, radial or axial play, or damage is found, replace gear and shaft assembly.

2. If cracks are suspected, use dye penetrant to determine if cracks exist; if they exist, replace gear and shaft assembly.

3. If no evidence of cracking or other damage is found, return gear to service.

e. Reassemble, install and rig collective pitch stick in accordance with the HMI, and the following additional information.

1. During assembly of gear and shaft into stick housing, determine that no bind exists, that gear backlash is within limits, by proper shimming and that gear to pinion contact are in line. (See Figure 2.)

2. Gear backlash may be adjusted by proper shimming.

f. Perform a thorough inspection, and operational check of the installation.

g. Record compliance with this Service Information Notice in compliance section of Helicopter Log Book.

WEIGHT AND BALANCE

Not Affected.

NOTES:

1. SMALL SEGMENT GEARS MUST BE REPLACED.
2. ALL LARGE SEGMENT ALUMINUM GEARS MUST BE INSPECTED.

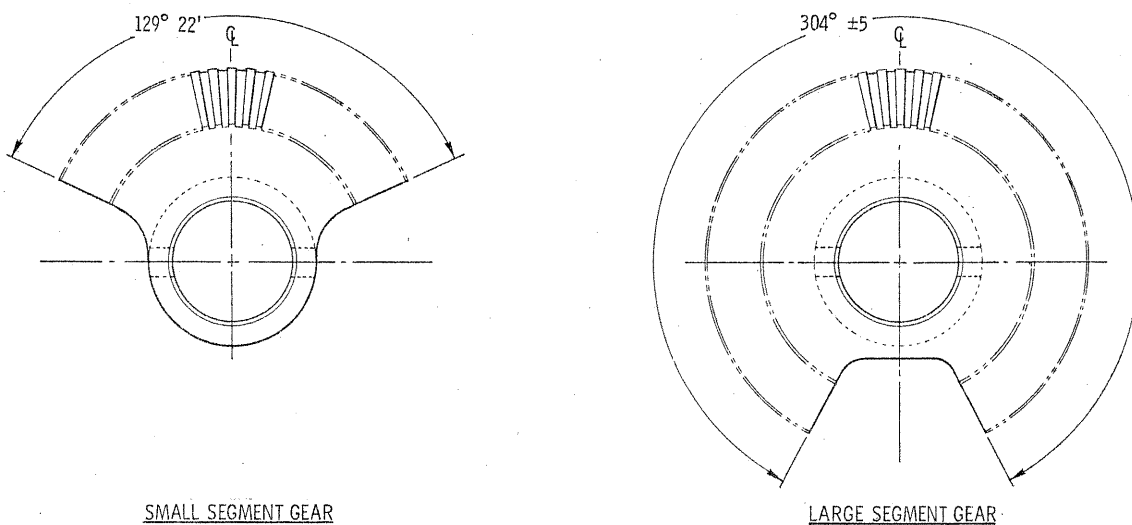


Figure 1. Throttle Gear Identification

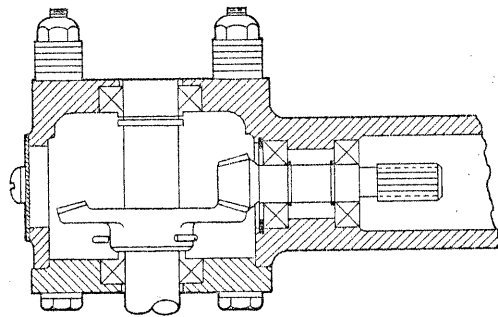
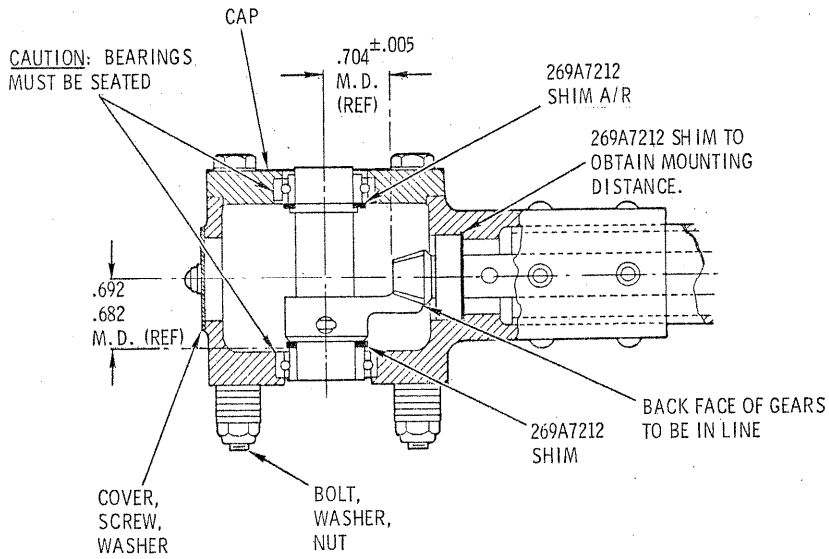


Figure 2. Throttle Gear Installation