



# SCHWEIZER SERVICE NOTICE

NOTICE NO. N-163

DATE 26 November 1979

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MANDATORY

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**SUBJECT:** PN269A6050 SERIES AND PN 369A1800-3 TAIL ROTOR PITCH CONTROL ASSEMBLY - SEATING OF BEARING INNER RACE; TORQUE INCREASE FOR PN 269A6258 LOCKNUT

**MODELS AFFECTED:** All Model 269A, TH-55A, 269A-1 and 269B Helicopters  
Model 269C Helicopter Serial No. 0004 thru 0789

All subject PN 269A6050 Series and 369A1800-3 Pitch Control Assemblies, separate or component of Tail Rotor Assembly, in Spares Inventory at date of this Notice.\*

**TIME OF COMPLIANCE:** Shall be accomplished within next 100 hours of helicopter operation.

**PREFACE:** The information given in this Service Information Notice lists a procedure for seating the double row ball bearing of the tail rotor pitch control assembly, to ensure that the bearing inner race is firmly in contact with the shoulder of the swashplate. At reassembly of the pitch control assembly, the locknut is torqued to 400 to 450 inch-pounds. Reseating of the bearing inner race and increasing the torque for the locknut is designed to prevent loosening of the locknut and premature wear of the bearing during tail rotor operations.

\*It is to be noted that PN 269A6050 Series and 369A1800-3 Pitch Control Assemblies identified with a white dot on the locknut (See Figure 1) are not affected by this Notice.

## Reference

269 Series - Basic HMI, Issued 1 April 1973; Revision No. 5, 1 February 1978.

269 Series - HMI Appendix C, Overhaul Manual, Issued 15 March 1976.

PARTS LIST

<u>Nomenclature</u>	<u>Part No.</u>	<u>Qty</u>	<u>Mfg</u>
Washer, Tang	269A6051	1	HH
	or		
	369A1816	1	HH
Washer, Tang	HS1551S290	1	HH

MATERIALS

Paint, White Lacquer Commercial

TOOLS AND EQUIPMENT

Holding Block and Wrench Adapter Set	369A9822	HH
Press, Arbor		Commercial

PROCEDURE

- a. As applicable, remove tail rotor assembly from helicopter.  
(Refer to Basic HMI.)

NOTE

Tail rotor pitch control assemblies identified with white dot on locknut are NOT affected by this Notice (see Figure 1). Perform steps j and k only.

- b. Remove and inspect tail rotor pitch control assembly, per Basic HMI.
- c. Remove locknut and tang washer from threaded end of swashplate. Use PN 369A9822 wrench adapter and holding block to remove locknut. Discard tang washer. Do not remove swashplate from housing.

d. Place housing and swashplate assembly on arbor press bed with swashplate end down. Apply 2000 pounds of pressure to press inner race of bearing firmly in contact with shoulder of swashplate. Use suitable tube or sleeve to press INNER race of bearing only. Remove assembly from arbor press.

e. Install new 269A6051 or 369A1816 tang washer; reinstall locknut and torque locknut to 400 to 450 inch-pounds. Use wrench adapter and torque wrench, while assembly is held in holding block, to tighten locknut.

f. Check for sufficient clearance (0.015 inch minimum) between swashplate and housing ( see Figure 1).

g. Check for smooth, easy and free rotation without binding.

h. Bend a tang of the tang washer into bottom of any aligned slot on locknut.

i. Paint a 0.12 to 0.18 inch white dot on locknut, as shown in Figure 1, to denote reseating of bearing and locknut torqued to 400 to 450 inch-pounds.

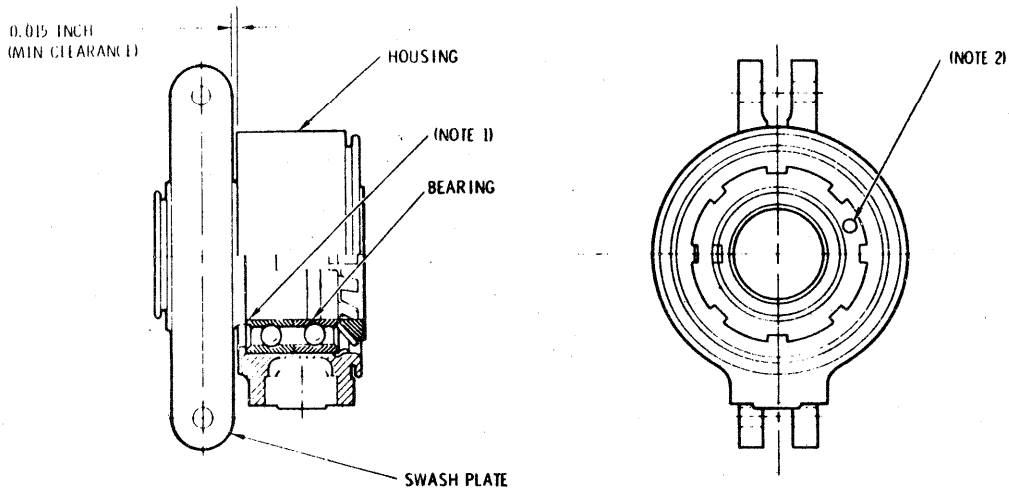
j. As applicable, reinstall pitch control and tail rotor assembly, per Basic HMI. Use new HS1551S290 tang washer. Tag spares assembly to denote compliance with this notice.

k. Following installation of pitch control/tail rotor assembly, record compliance with this Service Information Notice in Compliance Record of helicopter Log Book.

#### WEIGHT AND BALANCE DATA

Weight and balance not affected.

FAA APPROVED



- NOTES:  
1. INNER RACE FIRMLY SEATED AGAINST SHOULDER OF SWASH PLATE  
2. AFTER TORQUE, COLOR CODE WITH WHITE DOT (0.12 - 0.18 IN. DIA)

88-325

Figure 1. Tail rotor pitch control assembly - seating of bearing and increased torque for locknut



REFERENCE SHEET

SERVICE INFORMATION NOTICES AND LETTERS

Action Reference: When performing inspection or maintenance of tail rotor pitch control assembly, refer to Service Information Notice No. N-158.

HMI Reference: Insert this sheet in 269 HMI Appendix C, Part VII, Section 9, page 9-1.

This reference sheet shall be kept as a part of the manual until the data is incorporated at the next revision of HMI Appendix C.



## REFERENCE SHEET

### SERVICE INFORMATION NOTICES AND LETTERS

Action Reference: When performing inspection or maintenance of tail rotor pitch control assembly, refer to Service Information Notice No. N-158.

HMI Reference: Insert this sheet in 269 Basic HMI, Section 9, page 9-1.

This reference sheet shall be kept as a part of the manual until the data is incorporated at the next revision of the Basic HMI.  
(Refer to Service Information Summary, Basic HMI, page i.)