



SERVICE BULLETIN

DATE: 18 JUNE 1976

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MANDATORY

POTTING OF N2 GOVERNOR CONTROL SWITCH, PN 369A4580 – PILOT AND COPILOT COLLECTIVE PITCH STICK ASSEMBLIES

1. PLANNING INFORMATION:

A. Models Affected:

369H Helicopter Serial No. 0001H thru 0005H 369HE Helicopter Serial No. 0101E and subsequent

369HM Helicopter Serial No. 0001 thru 0004; 0005M thru 029 369HS Helicopter Serial No. 0001S thru 0752S; 0754S;

0756S thru 0758S; 0761S thru 0764S; 0767S thru 0773S; 0775S thru 0776S; 0778S thru 0782S; 0784S thru 0789S; 0792S; 0796S thru 0799S

B. Time of Compliance:

Shall be accomplished within next 100 hours of helicopter operation.

C. Preface:

Shall be accomplished prior to installation of pilot and copilot collective pitch stick assemblies in Spares Inventory at date of this Notice.

The information given in this Service Information Notice lists a procedure for potting the soldered terminals of the subject N₂ governor control switch on the pilot's collective stick, and on the copilot's collective stick if installed. Potting of the landing light switch on the pilot's collective stick is recommended but not required. The rework is designed to encase and provide additional protection and security for the switch soldered wiring terminals.

D. Weight and Balance :

Weight and balance not affected.

E. Reference Publications:

500 Series - Basic HMI. issued I October 1972; Revision No. 5, 15 June 1975

500 Series - HMI Configuration Supplement S/E, issued I May 1970, Revision No. 2, 1 October 1973, 500 Series - HMI Configuration Supplement M, issued I December 1971; Revision No. 3, I October 1974

FORM 9578 (REV 1/94)

MATERIAL	
Nomenclature	Source
Potting Compound	Coast ProSeal, Compton, CA (No. 727) Churchill Chem Corp., Vernon, CA (3C-737) Product Research Co., Burbank CA (PR1201)
Adhesive	Coast ProSeal, Compton, CA (No. 444R) 3M Co., St. Paul, Minn. (EC776R)

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MATERIAL (Cont.)	
Nomenclature	Source
Tape, Electrical (1/2 in. width)	3M Co. (No. 427)
Methylethylketone or Acetone	Commercial

2. PROCEDURE

NOTE: Removal of copilot collective pitch stick assembly is optional. if bench rework is desired. Refer to HMI Appendix A.

- (1). Check that all electrical switches are OFF.
- (2). Remove collective stick cover; disconnect collective pitch stick electrical plug. (Refer to Basic HMI for pilot's collective stick, and Appendix A for copilot's collective stick.)
- (3). Cut twine or nylon strap securing wiring to collective stick and disconnect grounding terminals.
- (4). Remove four screws securing ED plate to switch housing.

NOTE: If sufficient slack wiring is available to permit potting of N -switch, performance of step 5 below is not required.

Do NOT pull on ID plate or switch housing to withdraw slack wiring through collective stick tube. This will break solder connections at switch(es), Feed enough slack wiring into aft end of stick tube to permit removal of switch housing without tension on wiring. Use needlenose pliers or equivalent to pull wiring at forward end of collective stick.

- (5). Remove set screws securing switch housing to collective stick. Feed slack wiring into stick while sliding switch housing (with ID plate) from end of stick. As applicable, remove set screw securing starter switch to switch housing. Use needlenose pliers or equivalent to withdraw sufficient wiring at forward end of stick to permit rework.
- (6). Inspect switch soldered terminals and wiring for broken connections, looseness, cracks, or other discrepancies. Replace switch and/or resolder terminals as required. (Refer to Basic HMI.)

NOTE: Potting of landing light switch on pilot collective stick is recommended.

- (7). Using MEK or acetone, clean soldered terminals and switch wiring to be potted.
- (8). Brush or spray soldered terminals and switch wiring with adhesive to provide bond for potting compound.
- (9). Form potting mold with electrical tape; position mold around soldered terminals and switch wiring and fill with potting compound as shown in Figure 1. Allow to cure for 8 hours minimum.
- (10). Reinstall ID plate with switch(es) on switch housing.
- (11). As applicable. secure starter switch to housing with set screw.
- (12). Reinstall switch housing on collective stick and secure with set screws; carefully withdraw slack wiring from aft end of stick. Leave some slack wiring in stick tube to prevent tension on wiring and switch terminals.

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- (13). Reconnect grounding terminals and electrical plug; or reinstall collective stick, if removed, per HMI.
- (14). Check N2 governor control switch for correct operation by performing the engine starting procedure in the Owners Flight Manual.
- (15). Secure wiring to collective stick with twine or nylon strap; reinstall collective stick cover.
- (16). Record compliance with this Service Information Notice in Compliance Record of helicopter Log Book.

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