



**HUGHES
SERVICE INFORMATION
NOTICE**

NOTICE NO. HN-137

DATE 10 May 1979

PAGE 1 OF 4

SUBJECT: REPLACEMENT OF RADIO TRANSMIT/INTERCOM TRIGGER SWITCH;
REWORK OF CYCLIC PITCH STICK GRIP ASSEMBLY*

*Rework not required for Hughes PN 369D27133
or Guardian PN A218-964401-00 Cyclic Pitch
Stick Grip Assemblies

MODELS AFFECTED: All 500 Model 369H Series Helicopters

TIME OF COMPLIANCE: At owners and operators discretion

PREFACE: A new improved Guardian PN A218-158698-05 radio transmit/intercom switch is now provided as replacement, when required, for existing trigger switches in cyclic grip assemblies installed on the above affected helicopters.

The information given in this Service Information Notice provides instructions for replacement of the trigger switch, including a one-time modification of the cyclic grip assembly, as required, to accommodate the design configuration of the new replacement switch.

It is to be noted that rework of Hughes PN 369D27133 or Guardian PN A218-964401-00 cyclic grip assemblies is not required for installation of replacement PN A218-158698-05 trigger switch.

Reference

500 Series - Basic HMI, Issued 1 October 1972; Revision No. 7, 15 December 1976

500 Series - Appendix A, Issued 1 October 1972; Revision No. 4, 15 December 1974

Customer Service Department - Hughes Helicopters - Culver City, California

PARTS LIST

<u>Nomenclature</u>	<u>Part No.</u>	<u>Qty</u>	<u>Mfr</u>
Switch- RADIO/ICS	A218-158698-05	1	Guardian Electric

TOOLS & EQUIPMENT

Routing tool - blade, rotary file or equivalent

MATERIALS

Potting compound

PROCEDURE

- a. Check that all electrical power is OFF.
- b. Disconnect cyclic grip wiring connector from plug at lower end of cyclic stick.
- c. Remove strap securing wiring to stick socket; remove strap mounting plate if it is unserviceable.
- d. Remove screw from grip and separate grip from stick tube.
- e. Tie a string to each wire bundle at lower end of cyclic stick. Push slack wiring into wiring exit holes in stick socket while pulling grip wiring from stick tube. Remove grip and wiring; leave strings in tube for reassembly.
- f. Remove the two exposed spring tension screws, springs, ball and pin securing trigger switch in grip (located on top and right-hand side of grip).
- g. Drive trigger pivot pin from grip to release the trigger. Pin is removed from right to left while holding grip in normal position. Remove trigger.

h. Remove potting compound and two switch retaining screws at front of grip. Pull switch forward out of grip, feeding wiring up through grip at same time. Unsolder wiring terminals on trigger switch.

CAUTION

Protect all wiring and switches during rework of grip; or remove wiring and switches from grip, noting all electrical connections.

i. Rework cyclic grip as follows (see Figure 1):

1. Press or pull insert from top of grip.
2. Make template of profile of new A218-158698-05 trigger switch.
3. Using file, blade or equivalent routing tool, remove material from lower inside edge of hole for trigger switch to permit installation of new switch. Use template to determine amount and location of material to be removed.

j. Clean grip, wiring and switches. Reconnect (solder) all electrical wires and reinstall switches, as applicable. New trigger switch is retained by trigger pivot pin.

k. Apply potting compound to all open screw holes and insert hole.

l. Reinstall grip on stick tube. Using attaching strings, route grip wiring through stick tube and reconnect at electrical plug.

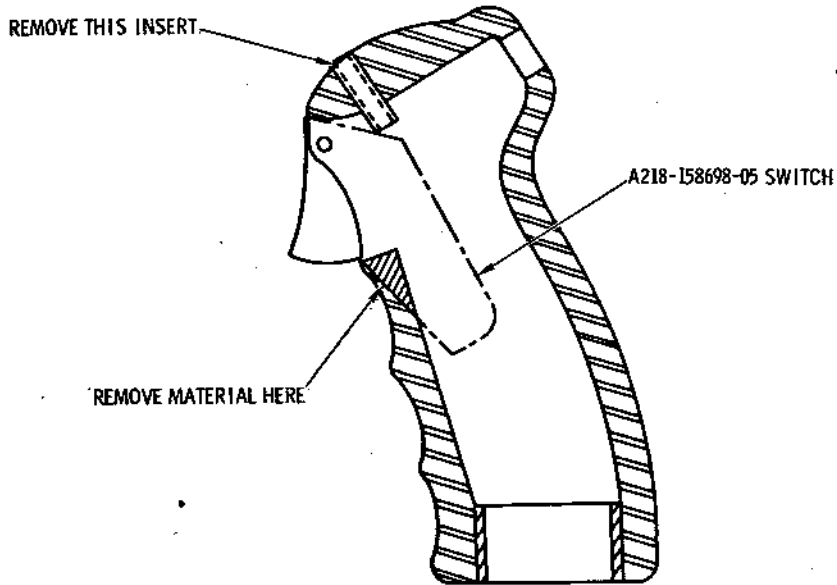
m. Check switch operation and wiring continuity.

n. Secure wiring to stick socket with nylon strap.

WEIGHT AND BALANCE DATA

Weight and balance not affected.

FAA APPROVED



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Figure 1. Rework of cyclic pitch stick grip assembly



REFERENCE SHEET

SERVICE INFORMATION NOTICES AND LETTERS

Action Reference: When performing maintenance or replacement of cyclic pitch stick grip, refer to Service Information Notice No. HN-137.

HMI Reference: Insert this sheet in 500 Series-Basic HMI, Section 7, Page 7-57.

This reference sheet shall be kept as a part of the manual until the data is incorporated at the next revision of the 500 Series - Basic HMI. (See Page i of 500 Series - Basic HMI.)



REFERENCE SHEET

SERVICE INFORMATION NOTICES AND LETTERS

Action Reference: When performing maintenance or replacement of cyclic stick pitch grip, refer to Service Information Notice No. HN-137.

HMI Reference: Insert this sheet in 500 Series - HMI Appendix A, Group 5, Page 5-6.

This reference sheet shall be kept as a part of the manual until the data is incorporated in the next revision of the 500 Series - HMI Appendix A. (See Service Information Summary, Page i of HMI Appendix A.)