



DN-48

TECHNICAL BULLETIN

DATE: 10 MAY 1979

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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: 500D Model 369D Helicopter Serial No. 0003D through 0480D

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 PUBLICATIONS:

500D Basic HMI – Volume I, Issued 15 September 1976; Revision No. 2,
27 November 1978

Publication No. CSP-023, Illustrated Parts List and Maintenance
Instructions for Cyclic Stick Grip Kit Installation, PN 369H90129-31 and
-505, Issued 1 June 1977

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PARTS LIST

Nomenclature	Part No.	Qty	Mfr
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.

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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.

1. 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.

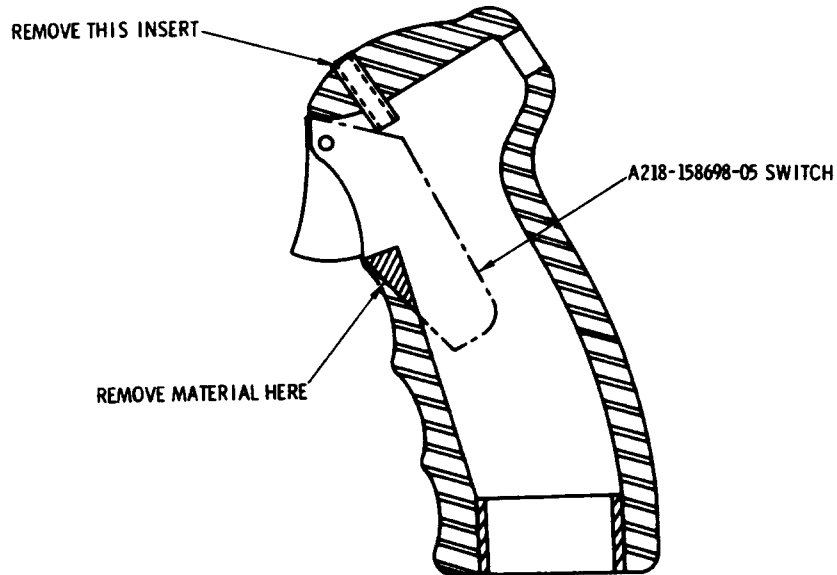
n. Secure wiring to stick socket with nylon strap.

WEIGHT AND BALANCE:

Weight and balance not affected.

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Figure 1. Rework of Cyclic Pitch Stick Grip Assembly