



# TECHNICAL BULLETIN

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## RELOCATION OF AUTO REIGNITION CONTROLS AND MODIFICATION OF SYSTEM FOR FULL-TIME OPERATION

### 1. PLANNING INFORMATION

#### A. Models Affected:

500D Model 369D Helicopters, Serial No. 0003D through 0949D, 0956D, 0965D, 0977D and 0989D, equipped with PN 369H90118-513 Automatic Engine Reignition Kit.

#### B. Preface:

The information given in this Service Information Notice lists procedures for relocating the auto reignition controls on the instrument panel and necessary rewiring, to provide full-time operation of the system. The FAA has determined that accomplishment of HHI Service Information Notice DN-100 is an action which provides an equivalent level of safety and satisfies the requirement of Airworthiness Directive (AD) 80-24-04. The authority for this action is granted in paragraph c of the subject AD..

#### C. Time of Compliance:

At owners/operators discretion.

#### D. FAA Approval:

The resultant alteration to the affected helicopters by the procedure in this Notice has been shown to comply with Federal Aviation Regulations and is FAA approved.

#### E. Weight and Balance Data:

Weight and balance not affected

#### F. Reference:

369D Pilot's Flight Manual, Publication No. CSP-D-1, Reissued 11 May 1981 FAA Airworthiness Directive 80-24-04

#### G. Materials:

MATERIAL	
Nomenclature	Source
Aluminum alloy sheet, 2024-T3, QQ-A-250/5, Temp T3.	
Primer, catalyzed epoxy, HMS-15-1082	1-1Y-10, Advanced Coatings & Chemicals Company, 2213 North Tyler Avenue, So. Elmonte, CA 91733
	U-1201, Sterling Lacquer Mfg. Co., Sunbrite Mfg. Co., 3150 Brannon Avenue, St. Louis, MO 63139

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MATERIAL (Cont.)	
Nomenclature	Source
Paint acrylic lacquer, HMS-15-1083, Color No. 37038 per FED-STD-595.	Advanced Coatings & Chemicals Company
	Sterling Lacquer Mfg. Co., Sunbrite Mfg. Co.
Scotch Cal Brand Film, 3650	Airmark Company (General Marketing Co.), 211 North Victory, Burbank, CA 91502
	Hesik Company, Inc., 385 Clinton St., Costa Mesa, CA 92626
	Rose Name Plate, 4169 Olympic Blvd., Los Angeles, CA 90063
Switch - 882GK15, Cutler Hammer (or equivalent)	

## 2. PROCEDURE

- (1). Set BATTERY, EXT PWR switch to OFF.
- (2). Disconnect wires from auto reignition switches as follows:
  - (a). Remove wire no. J501A20 from circuit breaker (CB106-2) and switch (S11-1) and discard wire.
  - (b). Disconnect wire no. J501AE20, J502E20, J501B20, J502A20 and J502D20 at switch (S11).
  - (c). Remove ARM switch (S11) from instrument panel.
  - (d). Remove wire no. J503D20 and J503EE20 from terminal board (TB502-13A and 13C).
  - (e). Remove wire no. J505A20N and J508A20N from stud (E2).
  - (f). Remove wire no. J507AA20 from terminal board (TB502-13E).
  - (g). Remove wire no. E559AC22 from splice (MS25181-1).
- (3). Remove relays (K304 and K104) and switch (XDS9) form ship. Remove all wires from relays and switch and retain relays and switch for reuse.
- (4). Fabricate cover, as required, for hole vacated by switch (see Figure 1 ).
- (5). Install cover on instrument panel (see Figure 1).
- (6). Install plug button on instrument panel (see Figure 1).



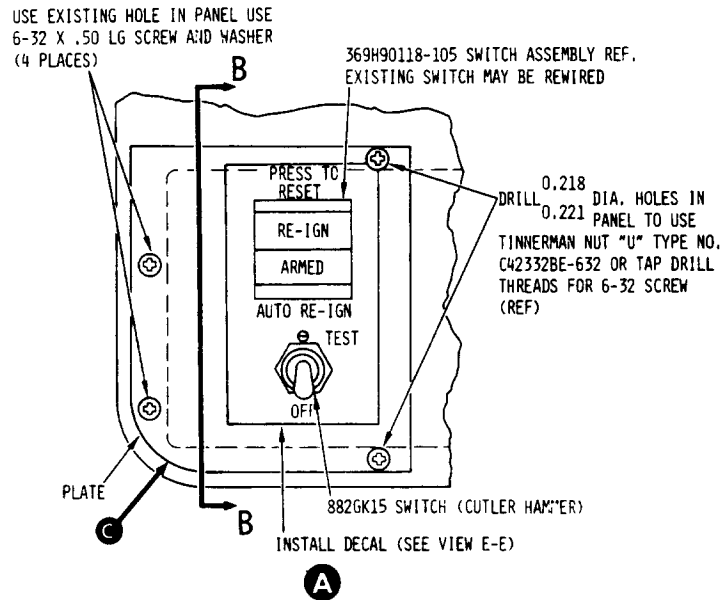
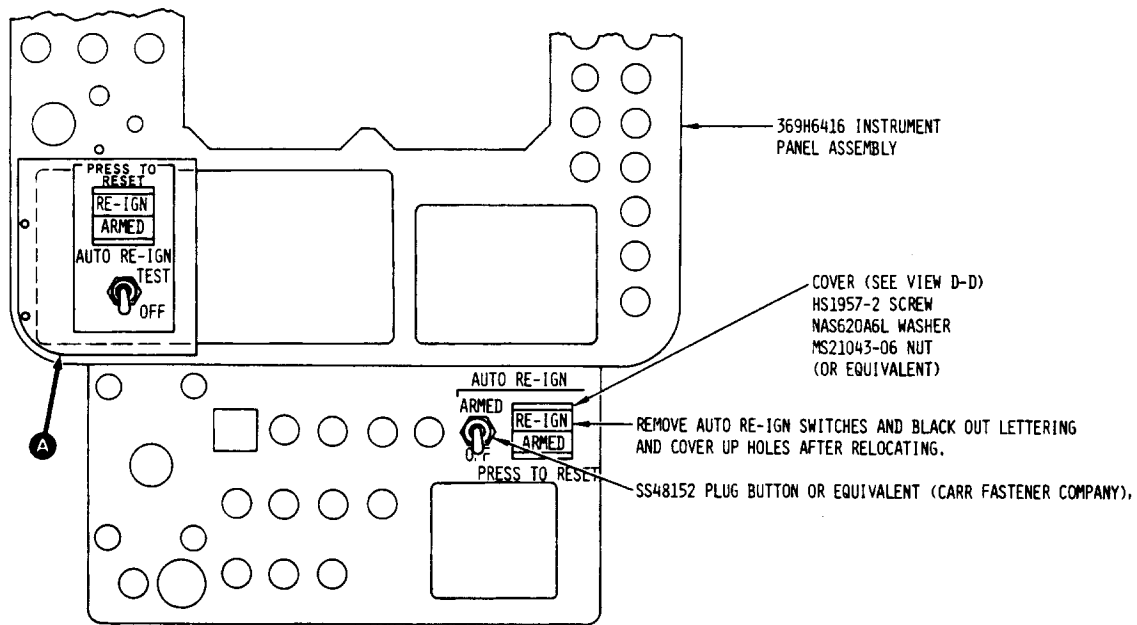
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- (7). Paint out lettering at previous auto reignition switch location with acrylic lacquer.
- (8). Fabricate plate, as required:
  - (a). Make plate from 0.062 inch thick aluminum alloy sheet as shown in Figure 1.
  - (b). Apply one coat HMS-15-1082 primer and dry for 1 to 2 hours.
  - (c). Apply topcoat of HMS-15-1083 acrylic lacquer and air dry 4 hours minimum.
- (9). Install plate and auto reignition switches (XDS9) (retained above) and (S11) (PN 882GK15, Cutler Hammer or equivalent) at new location on instrument panel (see Figure 1).
- (10). Fabricate and install decal on instrument panel (see Figure 1).
- (11). Revise wiring as follows (see Figure 2):
  - (a). Install diode at circuit breaker (CB101),
  - (b). Install diodes (CR3 and CR4) on switch (S11).
  - (c). Install transorb (CR5) on relay (K104).
  - (d). Rewire switches (S11 and XDS9) and relays (K104 and K304) as shown.
  - (e). Reinstall relays (K104 and K304) in original position.
- (12). Perform check of modified auto reignition system per instructions in 369D Pilot's Flight Manual, Publication No. CSP-D-1, dated 11 May 1981.
- (13). Record compliance with this Service Information Notice in Compliance Record of helicopter Log Book.

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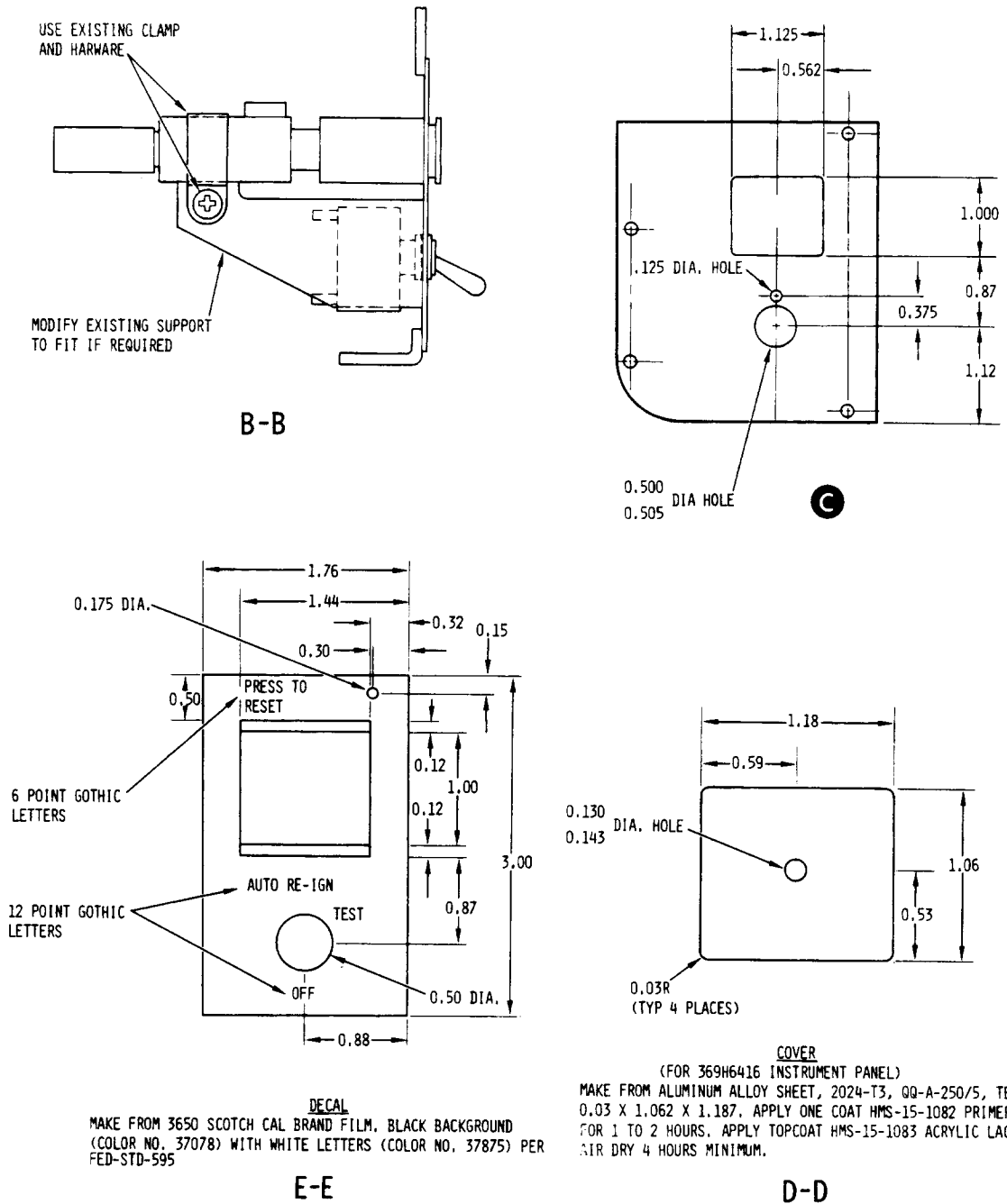


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**Figure 1. Relocation of Auto Reignition Controls (Sheet 1 of 2)**

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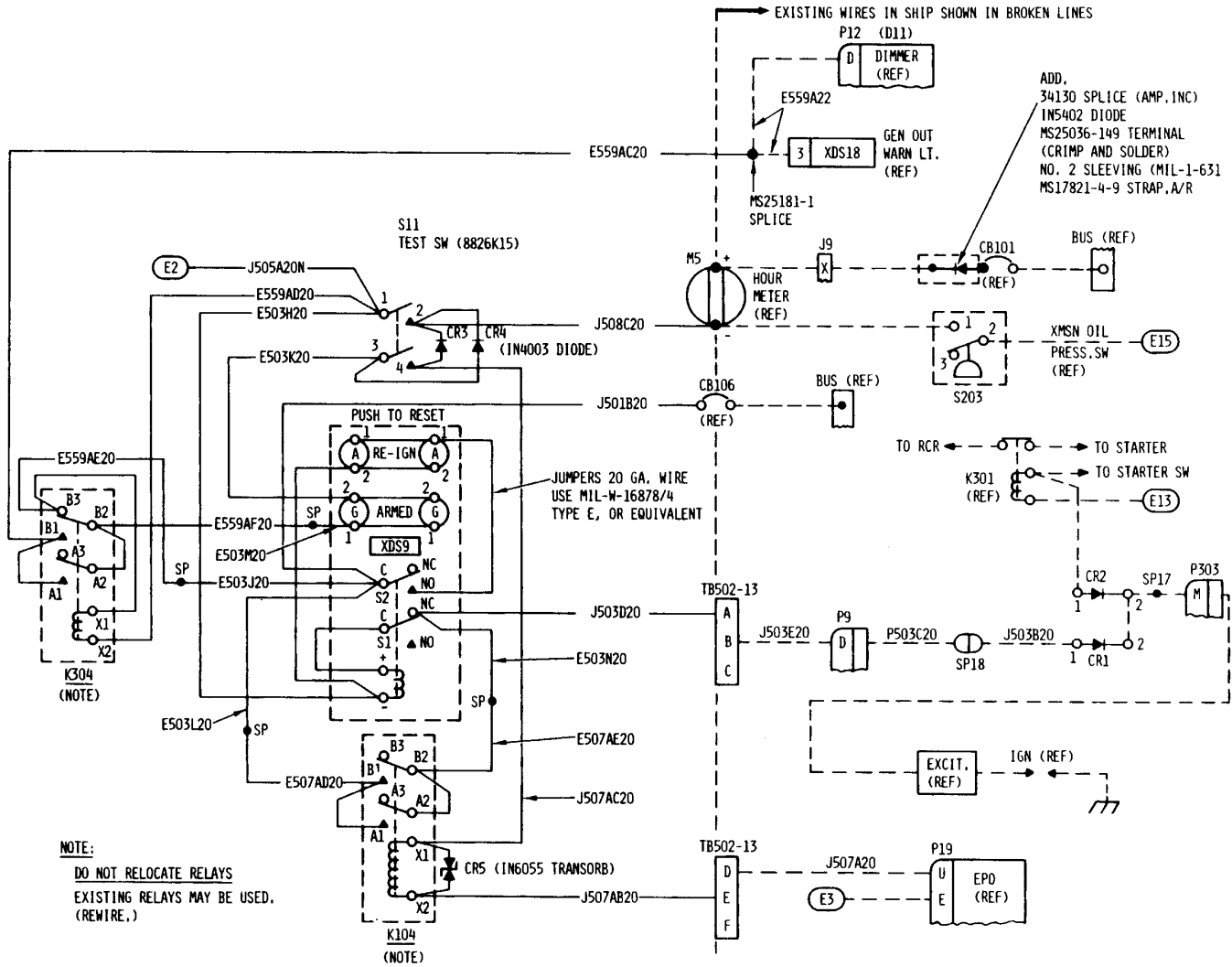
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Figure 1. Relocation of Auto Reignition Controls (Sheet 2 of 2)

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Figure 2. Wiring Diagram