

GEH-4765 INSTALLATION INSTRUCTIONS

## 300-Line Push Button & Selector Switch Kits

For NEMA Size 3 & 4

300-Line Starters, Contactors, & Combination Starters-Type 1 Enclosure

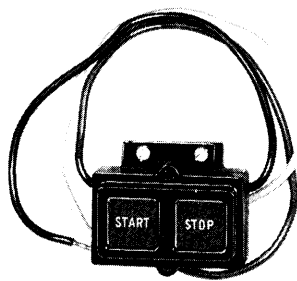
**Caution:** Before installing in a nuclear application, determine that the product is intended for such use.

**Warning:** Disconnect power before installing or servicing.

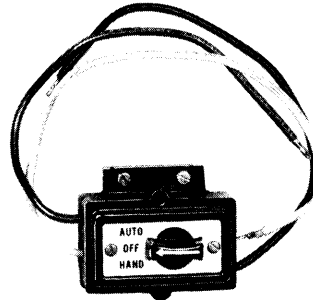
### Description

These kits are designed for use on CR305, CR306, CR307, and CR308 magnetic contactors & starters.

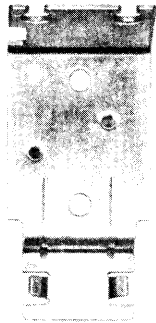
These kits enable you to combine a control station with a contactor or starter as one compact unit. See Figure 1.



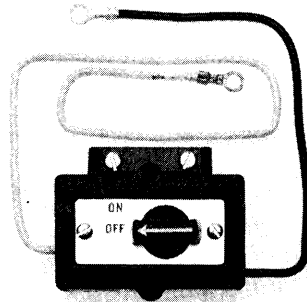
CRE305X320B push button



CR305X330B H-O-A selector switch



Mounting bracket



CR305X330D OFF-ON selector switch

Figure 1. Pilot devices and bracket

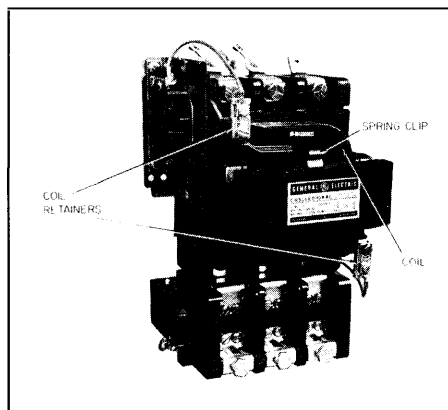


Figure 2. Typical device.

### Installation

1. Remove power from device.
2. Remove cover from device.

**Note:** On unwired forms, kits are more easily installed by first removing contactor or starter from enclosure.

3. Disassemble device by pressing on coil and pulling coil retainers up and away from coil. See Fig. 2.

4. Withdraw spring clip from movable portion of magnet assembly.
5. Remove movable magnet and slide out coil and stationary magnet from arc chute cover.
6. Take molded arc chute cover and insert keyed end of mounting bracket into keyed slot at top of the molded cover. See Figure 3.

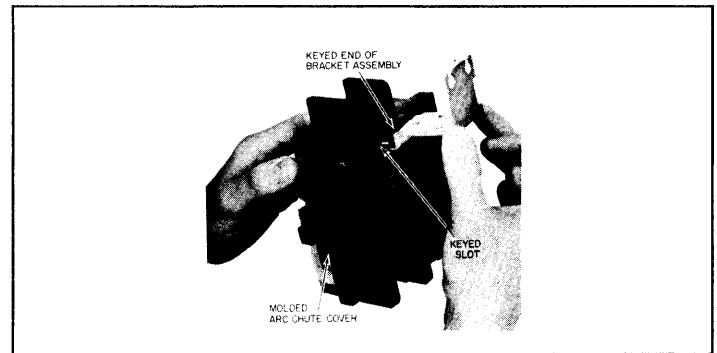


Figure 3. Installation of mounting bracket.

7. Reassemble device.
8. When the pilot device is to be used on a CR307 or CR308 combination starter, remove the white tape from the 2 7/8-in. x 1 3/4-in. urethane gasket and place it over the front of the pilot device.
9. Slide pilot device onto the mounting bracket, using circular mounting slots as shown in Figure 4.

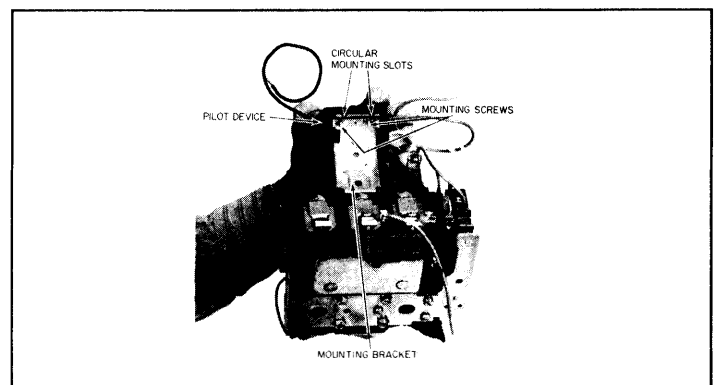


Figure 4. Installation of push button or selector switch.

10. Wire pilot device outlined under each specific kit as shown in Figures 5, 6, or 7 on back page.
11. Remove large rectangular knockout from enclosure cover by placing blade of a screwdriver at the bottom of the knockout and applying force from the front of the enclosure cover.
12. Replace cover on enclosure.
13. Adjust pilot device on its mounting bracket to line up with knockout in cover. Tighten pilot device mounting screws.

**Installation—Wiring of Pilot Devices**  
**CR305X320B Push Button (Figure 5)**

1. Insert and secure black/red wire of push button under clamp of Terminal 3 at top of auxiliary interlock.
2. Insert and secure black wire of push button under the screw of Terminal L1 at top of contactor.
3. Insert and secure black/white wire of push button under clamp of Terminal 2 and bottom of auxiliary interlock.

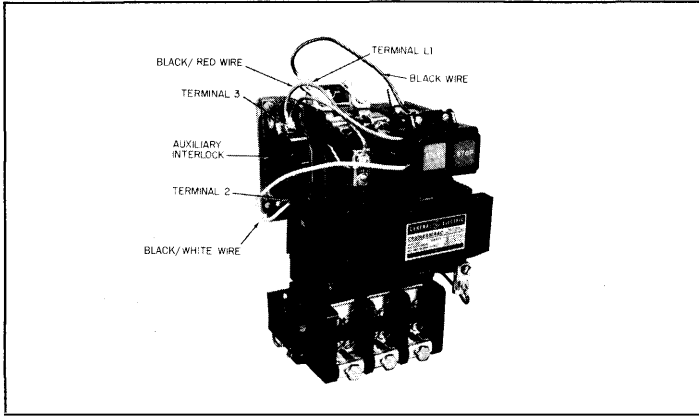


Figure 5.

**CR305X330B H-O-A Selector Switch (Figure 6)**

1. Remove wire “B” (as shown in figure 7) running from top coil terminal screw to Terminal 3 on auxiliary interlock. Discard wire.
2. Insert and secure black/white wire of selector switch under the clamp of Terminal 3 at top of auxiliary interlock.
3. Insert and secure black wire of selector switch under top coil terminal screw.
4. Insert and secure black/red wire of selector switch under the screw of Terminal L1 at top of contactor.
5. If a maintained contact device is in the circuit, connect it between Terminals L1 at top of contactor and Terminal 3 at top of auxiliary interlock.

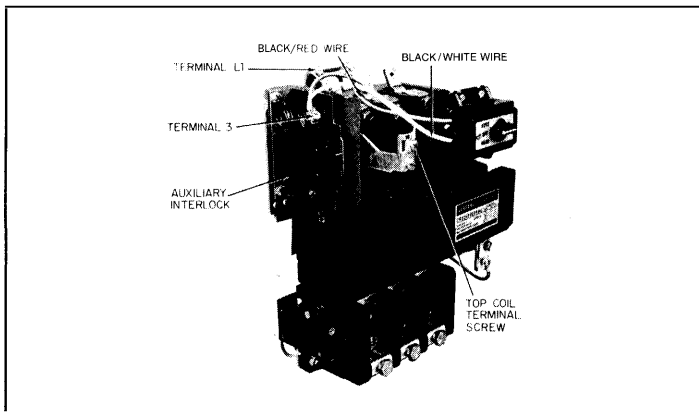


Figure 6.

**CR305X330D OFF-ON Selector Switch (Figure 7)**

1. Remove wire “B” running from top coil terminal screw to Terminal 3 on auxiliary interlock. Discard wire.
2. Insert and secure black/white wire of selector switch under the screw of Terminal L1 at top of contactor.
3. Insert and secure black wire of selector switch under top coil terminal screw.

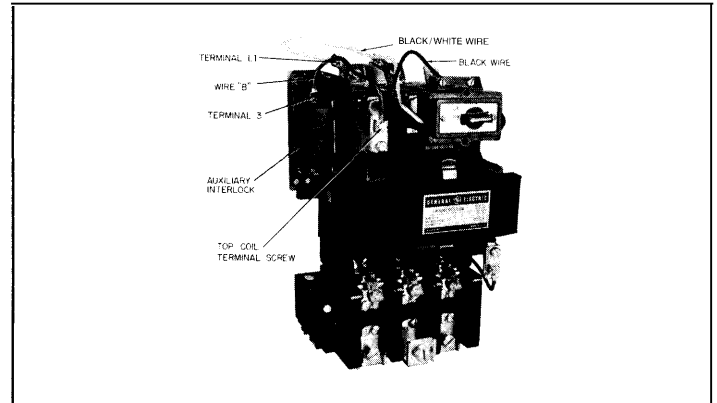
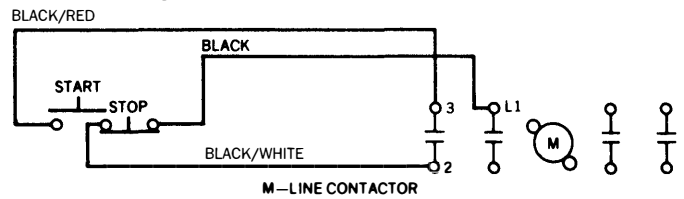
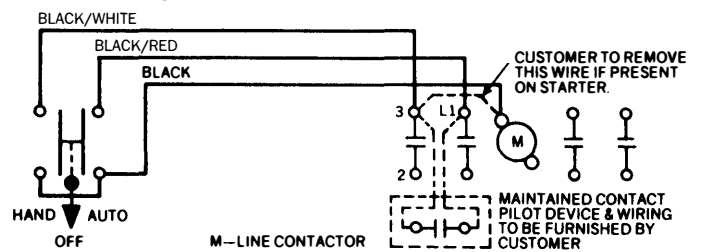


Figure 7.

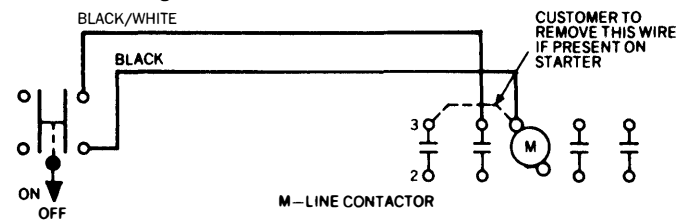
**Connection Diagram—Push Button**



**Connection Diagram—H-O-A Selector Switch**



**Connection Diagram—OFF-ON Selector Switch**



Above connections are for three-phase enclosed contactors, across-the-line starters, and combination starters.

*These instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation, operation, or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the Purchaser's purposes, the matter should be referred to the nearest ABB sales office.*

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