



## INSTRUCTION

# POWER-BREAK™ SHUNT TRIP DEVICE

GEH-3400

Rev. E

**NOTE:** *UL Listing is voided when the circuit breaker is modified to add an accessory.*

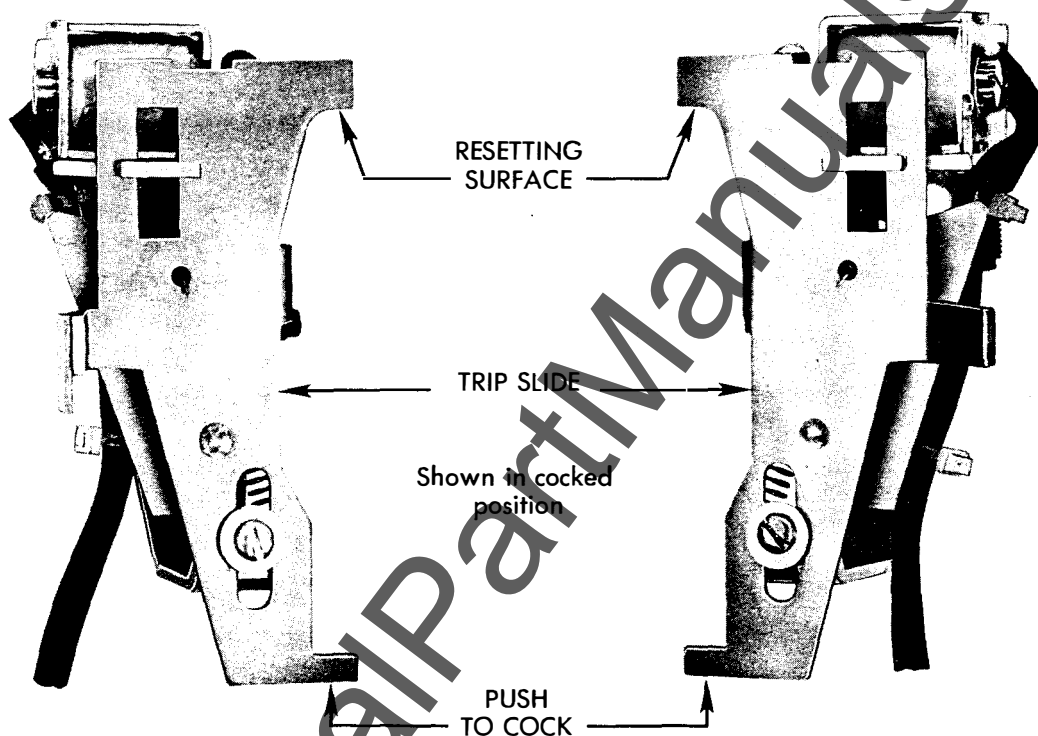


FIGURE 1-L

FIGURE 1-R

CAT. NO.	VOLTAGE RATING	MAX. INRUSH CURRENT-AMPS
TSST7	12 VDC	4.00
TSST8	24 VDC	2.18
TSST9	48 VDC	1.09
TSST11	250 VDC	.21
TSST12	120 VAC	2.25
	240 VAC	4.50
	125 VDC	2.35
TSST13	480 VAC	1.64
	600 VAC	2.05

### GENERAL DESCRIPTION:

The shunt trip device provides remote opening of the circuit breaker. An auxiliary switch is supplied to open the coil circuit when the breaker opens.

### CAUTION

When installing accessories, the breaker must be completely deenergized and disconnected from the electrical circuit. This is mandatory because breaker must be "ON" during certain stages of installation and testing.

Add Suffix **RB** for Right Side mounted device, **LB** for Left Side.

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 General Electric Company.

GENERAL  ELECTRIC

## INSTALLATION

Open circuit breaker by pushing "OPEN" button.

Actuate breaker handle ONE time to depress accessory resetting roll pin.

Remove breaker cover and trip unit as described in Bulletin GEH-3371 or 3389.

### FOR RIGHT SIDE MOUNTED DEVICE, Figure 1-R

Remove left knockout in right pole of breaker base, using screwdriver and hammer as shown in Figure 2. Drill a  $\frac{3}{8}$ " hole through the base wall between the right and center pole as shown; hole may be angled downward as required. Remove all debris from breaker.

### FOR LEFT SIDE MOUNTED DEVICE, Figure 1-L

Remove right knockout in left pole of breaker base, using method shown in Figure 2. Drill a  $\frac{3}{8}$ " hole through the

base wall between left and center pole in same relative location as shown in Figure 2. Hole may be angled downward as required. Remove all debris from breaker.

**To install the Left Side Mounted Device, first remove the breaker trip slide as follows:**

Snap out the trip slide spring.

Remove the trip slide mounting hardware. BE CAREFUL NOT TO DROP ANY PARTS INTO THE BREAKER.

Check latch mounting screws shown in Fig. 4. If ends of screws extend more than  $\frac{1}{32}$ " inside mechanism frame, remove them one at a time and replace with the  $\frac{3}{8}$ " long flat head screws supplied with the kit. Tighten to 20 in. lbs. torque. (Do not remove both screws at one time)

Cock tripping mechanism of shunt trip by pushing the trip slide toward the solenoid, as shown in Figures 1-R or 1-L.

Place unit inside breaker mechanism frame, Figure 3-R or 3-L. (NOTE: The left side mounted device may require some care in maneuvering it through the space between the breaker mechanism frame and latch assembly).

Install mounting screws through slotted holes into tapped holes in shunt trip frame. Position unit to provide  $\frac{1}{16}$ " to  $\frac{3}{32}$ " gap as shown in Figure 3R or 3L and tighten screws to 15" pound torque. Check to be sure resetting roll pin is underneath the trip slide resetting surface.

Reposition the breaker trip slide (left side unit mounting) on the studs provided and fasten in place with the mounting hardware removed earlier. Tighten nuts to 15" pound torque. Check to be sure slide moves freely before snapping slide spring back in position. It may be necessary to reposition solenoid leads slightly to assure free movement.

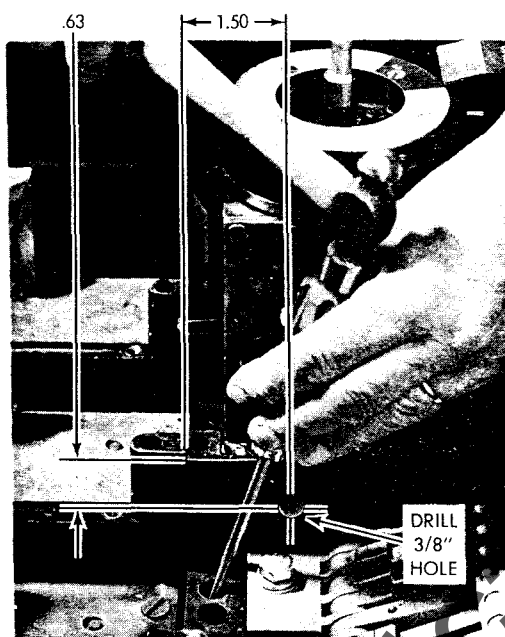


FIGURE 2

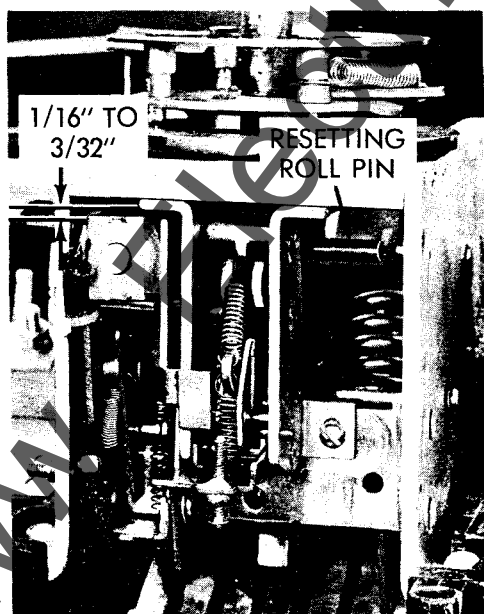


FIGURE 3-L

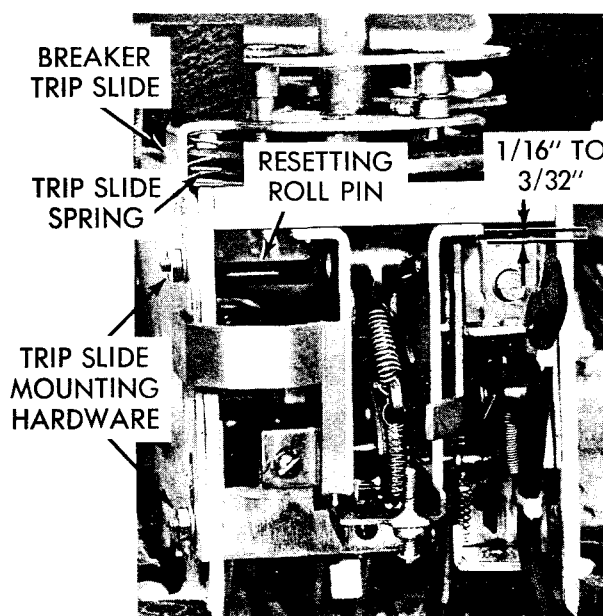


FIGURE 3-R

LATCH MOUNTING SCREWS

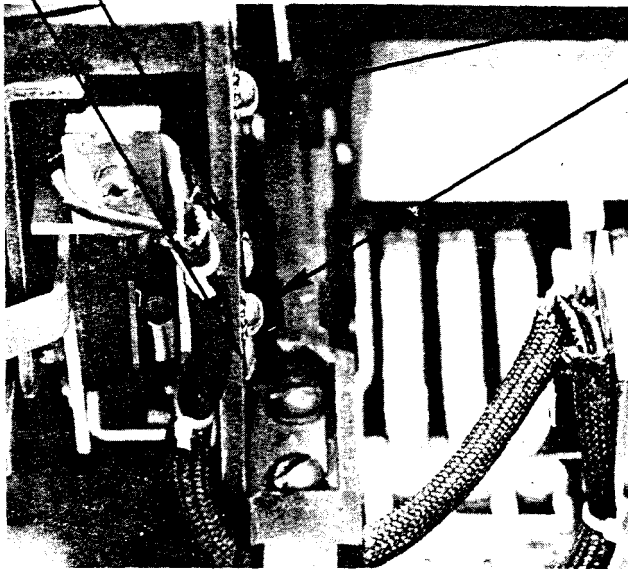
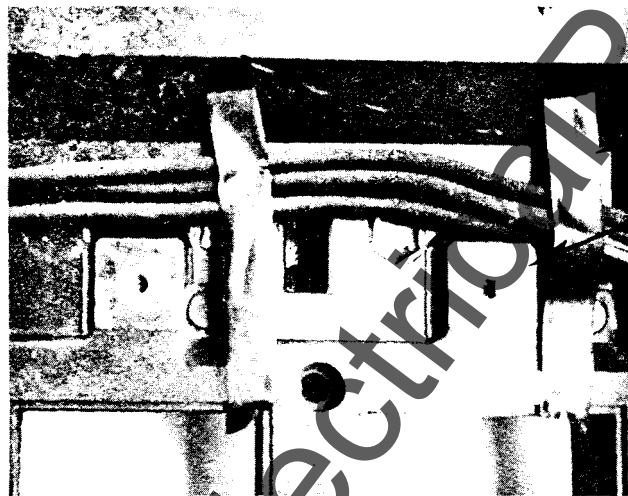


FIGURE 4

MOUNTING SCREWS  
IN SLOTTED HOLES  
IN MECHANISM FRAME

Install auxiliary switch unit (as described in GEH-3402), using the left hex head bolt for mounting. Be sure to discard the plain washer before re-installing this bolt. Tighten to 30" pound torque while holding switch properly aligned.

Thread the wires and flexible sleeving from the shunt trip through the drilled hole. Cut one lead to suit, strip and solder to the upper of the two exposed switch terminals (N.O.). Pass the other lead through the flexible sleeve on the switch assembly and thread this bundle through the knockout in the breaker base and along the back for attachment as desired.



View of back of breaker.

FIGURE 5

TAPE

BREAKER  
MOUNTING  
PAD

**NOTE:**

If breaker has been removed from its supporting structure, use tape to hold wires in position as shown in Figure 5 to guarantee that wires will not be pinched under the breaker mounting bosses.

Replace the breaker cover but do not tighten screws. Actuate handle 3 times to close breaker contacts. Apply 75% of rated accessory coil voltage to check electrical and mechanical operation. Shunt trip circuit must be open after breaker contacts open.

Remove breaker cover, then reinstall trip unit and breaker cover as described in GEH-3371 or 3389.

Apply descriptive label to right side of breaker base.



CIRCUIT PROTECTIVE DEVICES PRODUCT DEPT., PLAINVILLE, CONN. 06062

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