Motor-Operated Mechanism

For Type TED, TEC, TEB, TB1, THLC1, TLB1, TEL, and TEML Circuit Breakers

CAUTION: Before inspecting or beginning any maintenance work on the breaker, it must be disconnected from all voltage sources, both power and control, and breaker must be off (open).

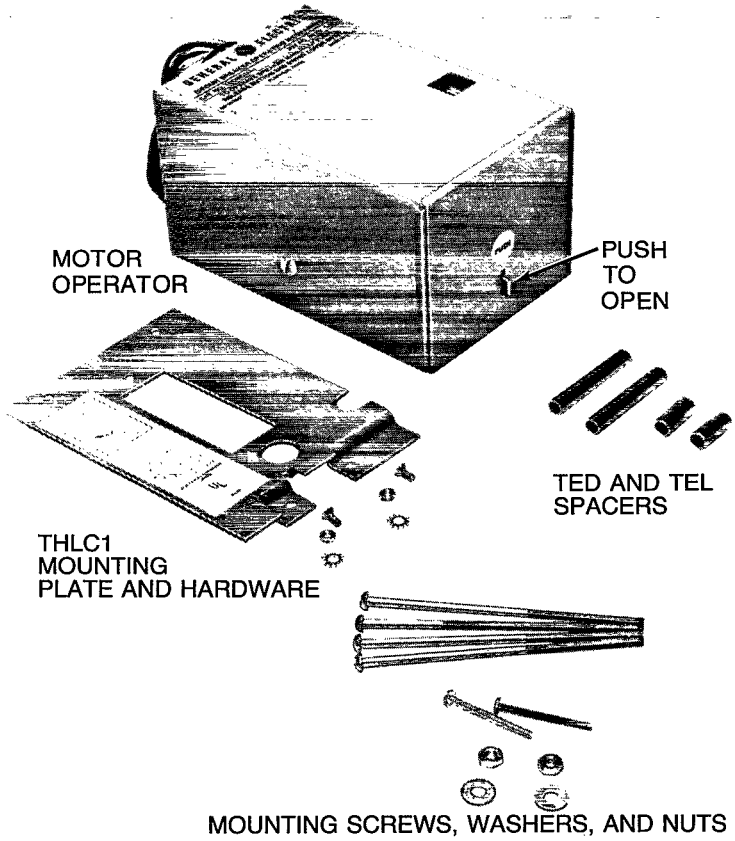

Figure 1. Contents of This Kit

Description

A motor-operated mechanism is designed to open, close, and reset a circuit breaker by remote control.

In an operating installation, the customer must supply normally open ON and OFF push buttons, external wiring, a control power source, and any control circuitry.

Electrical Operation

With the breaker and operating mechanism in OFF position, press the ON button to energize the motor, closing the breaker. When the breaker handle reaches the ON position, the control circuit is disconnected by an internal limit switch.

When the OFF button is pressed, the motor is energized, opening the breaker. After the breaker handle reaches the OFF position, the limit switch de-energizes the control circuit.

When the circuit breaker trips automatically, there is no external trip indication, unless a separate bell alarm accessory is provided to actuate a warning device. It is necessary to press the OFF button to reset the breaker.

Automatic Reset

For automatic reset, an auxiliary switch, which is available as an accessory, is used to return the breaker to the OFF/RESET position after it has tripped. The switch is mounted inside the breaker and wired in parallel with the OFF button. When the breaker trips, the switch closes, moving the breaker handle to the OFF/RESET position. After the motor-operated mechanism has reset the breaker, the limit switch again opens the circuit. To use automatic reset, the ON pushbutton must be SPDT type and wired as in Figure 7.

Manual Operation

Lift the cover to disengage the handle and operate the breaker handle. To return to electrical operation, align the breaker handle with the operating mechanism and close the cover. (See electrical operation)

Electrical Data

Catalog No.	Control			Timing (Sec)		Recommended Fuse
	Volts	In Rush (Amp)	Running (Amp)	Closing	Opening Reset	
TEDMOMA1	120 VAC	3.0	1.6	1.5	1.5	0.5 Amp (Time Delay)
TEDMOMA2	240 VAC	2.5	1.0	1.5	1.8	
TEDMOMA8	24 VDC	2	1.0	1.5	1.5	

Installation On Types TED, THED TEC, TEB, And TB1

1. Mount circuit breaker using diagonal mounting screw locations (Figure 2).
2. Connect line and load circuit breaker terminals.
3. Install motor operating mechanism using the two 3⅞ inch long screws and the two ¾ inch long spacers in the remaining diagonal mounting screw locations (Figure 2).* See Figure 4 for mounting options. For TB1 use the special 1⅜ inch long pouch cover screw supplied (Figure 3).
4. Align slide mechanism grommet and circuit breaker handle by rotating crank or by moving circuit breaker handle. Close cover.
5. Electrically test per specified electrical data above. Refer to Figure 7 for schematic and auto reset diagram.

*Mounting hardware for plug-in base 343L564G7

Installation On Types TEL And TEML

1. Mount circuit breaker using diagonal mounting screw locations (Figure 2).
2. Connect line and load circuit breaker terminals.
3. Install motor operating mechanism using the two 4½ inch long screws and the two 1 15/16 inch long spacers in the remaining diagonal mounting screw locations (Figure 2). See Figure 4 for mounting options.
4. Align slide mechanism grommet and circuit breaker handle by rotating crank or by moving circuit breaker handle. Close cover.
5. Electrically test per specified electrical data above. Refer to Figure 7 for schematic and auto reset diagram.

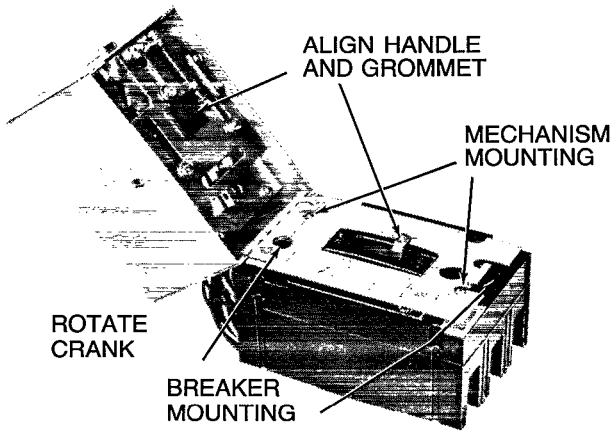

Figure 2

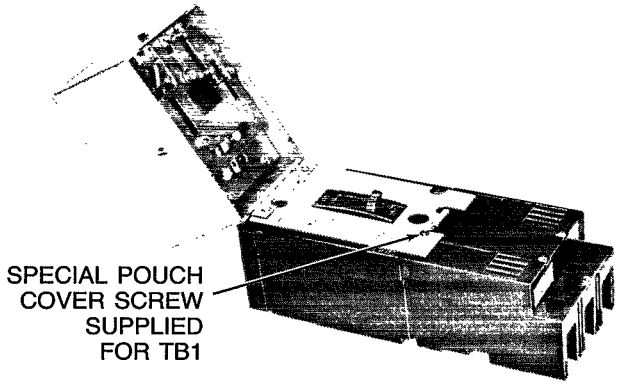

Figure 3

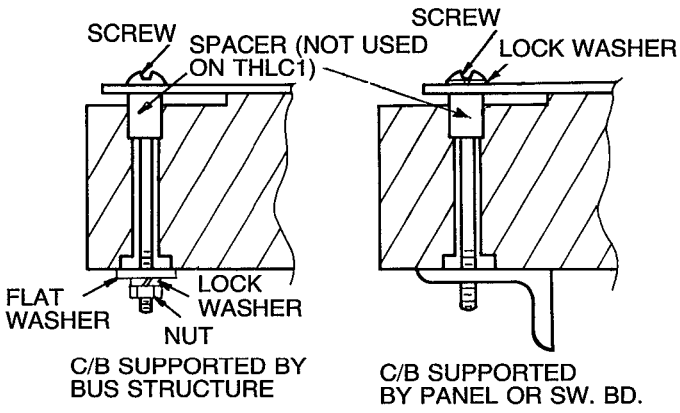

Figure 4

Installation On Types THLC1 And TLB1

1. Mount circuit breaker using two mounting screw locations at the line end of the breaker (Figure 5).
2. Connect line and load circuit breaker terminals.
3. Remove the mounting plate attached to the mechanism and replace it with the alternate plate included (Figure 6). Use the two flathead screws, lockwashers, and nuts provided. Tighten securely.
4. Install motor operating mechanism using the two 4¼ inch long screws and the ⅜ inch long screw in the remaining mounting screw locations (Figure 5). See Figure 4 for mounting options.
5. Align slide mechanism grommet and circuit breaker handle by rotating crank or by moving circuit breaker handle. Close cover.
6. Electrically test per specified electrical data above. Refer to Figure 7 for schematic and auto reset diagram.

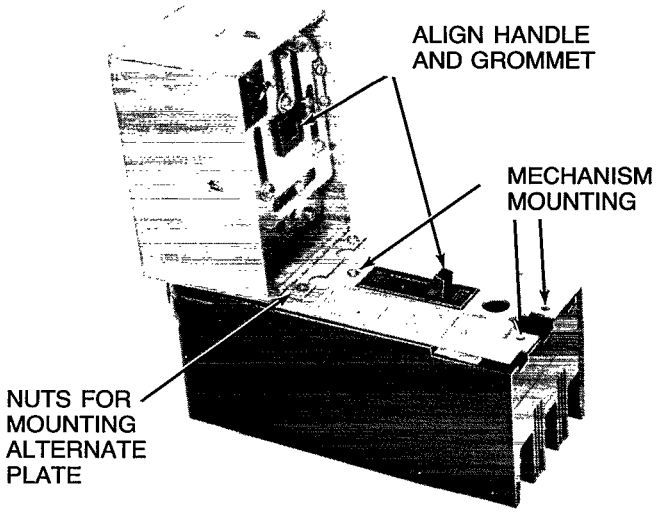

Figure 5

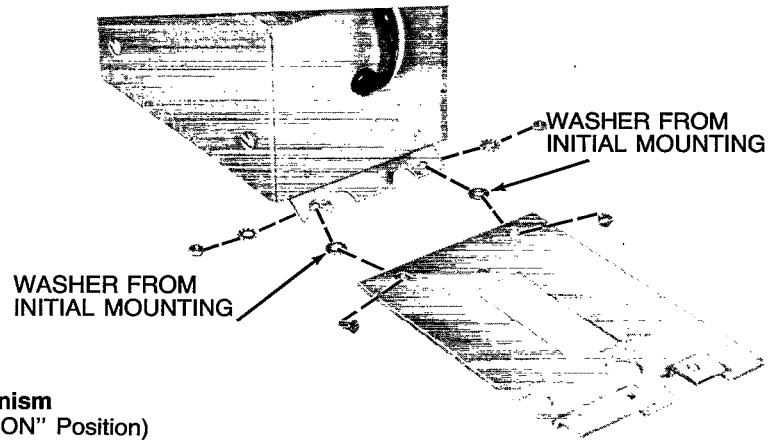

Figure 6

Wiring Diagram TED Motor-Operated Mechanism
(All Switch Contacts Shown With Circuit Breaker In The "ON" Position)

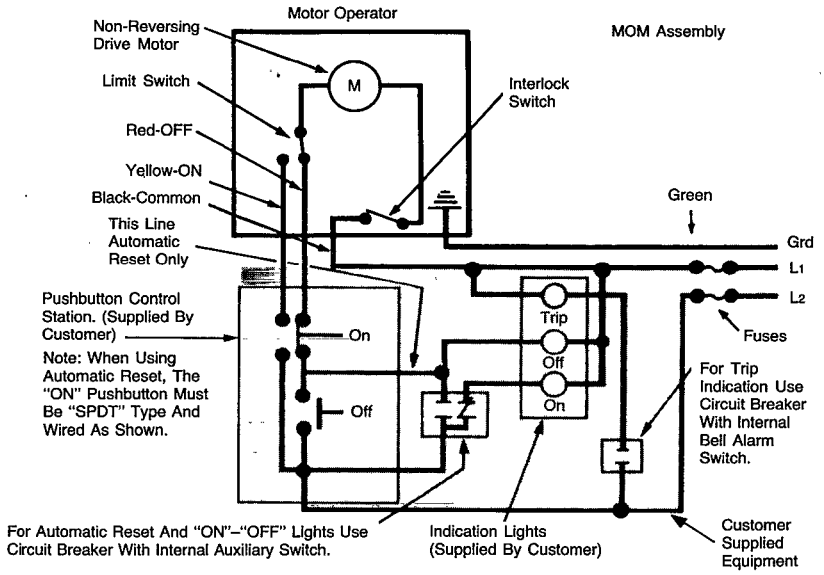

Figure 7

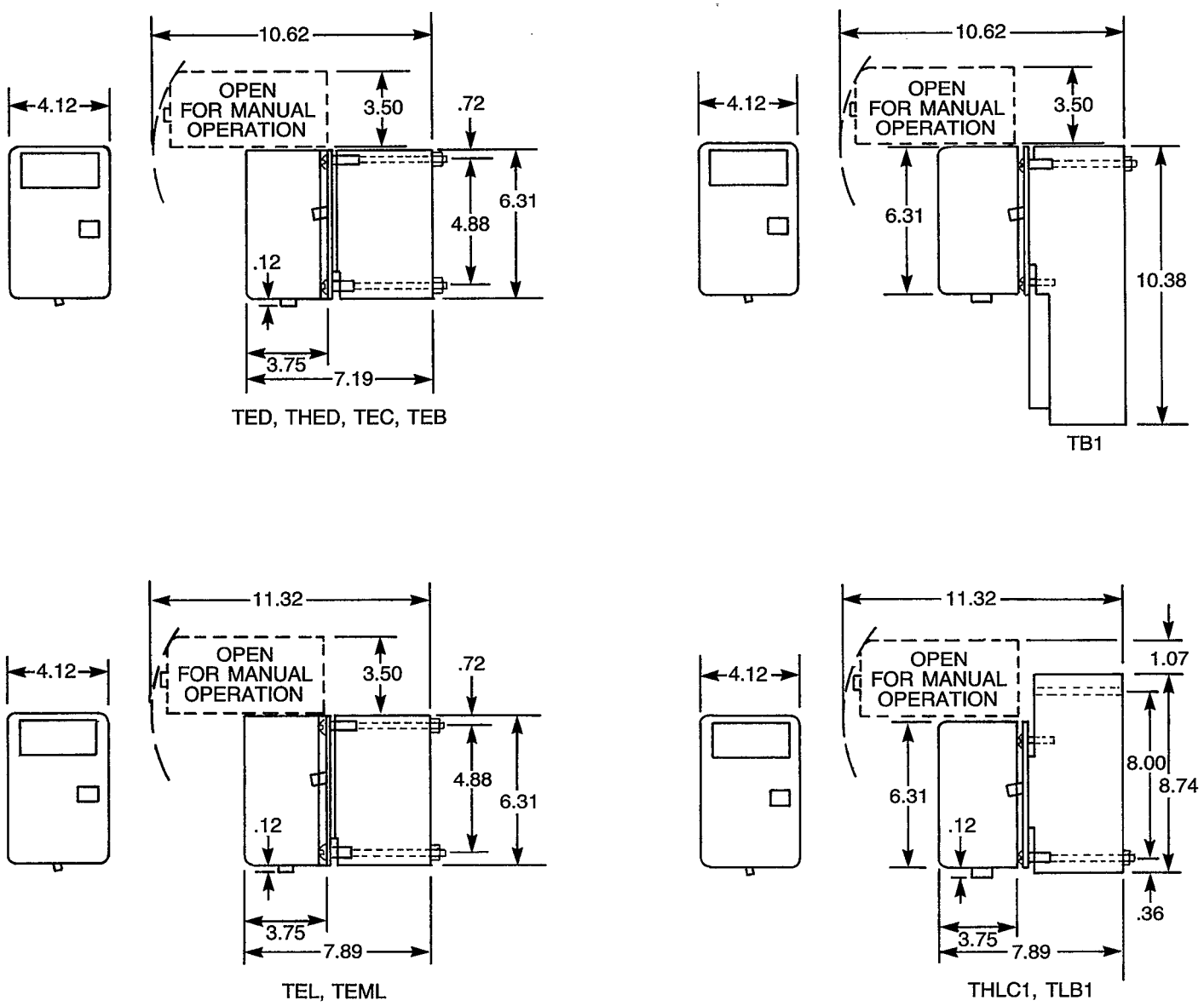

Figure 8. Outline Dimensions

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 GE Company.