



# Bell Alarm Switch Accessory

Cat. No. TKMABAAL  
Mod. 2 240 VAC  
6 Amps, Type TKMA  
Trip Units

### General

The Bell Alarm Device contains a single pole, double-throw switch (as shown in Figure 1) which is actuated by the breaker cradle. Thus, only when the breaker is tripped will this switch function and will either close or open a circuit as desired.

### Installation

**CAUTION:** The circuit breaker must be completely de-energized and disconnected from the circuit when accessories are installed.

### Installation on Mine Duty and Type TKMA Mod. 2 Trip Units

1. Breaker must be in the "tripped" condition (handle at midpoint).
2. Remove breaker cover mounting screws, breaker cover, and handle shutter (lug covers can remain in place on the breaker cover). See Figure 2.
3. Remove load lugs, if used, and Phillips screws, lockwashers and plain washers on line side of trip unit.
4. Press Lever "A", (Figure 2) in direction of arrow and lift trip unit from breaker.
5. Remove switch assembly, if supplied.

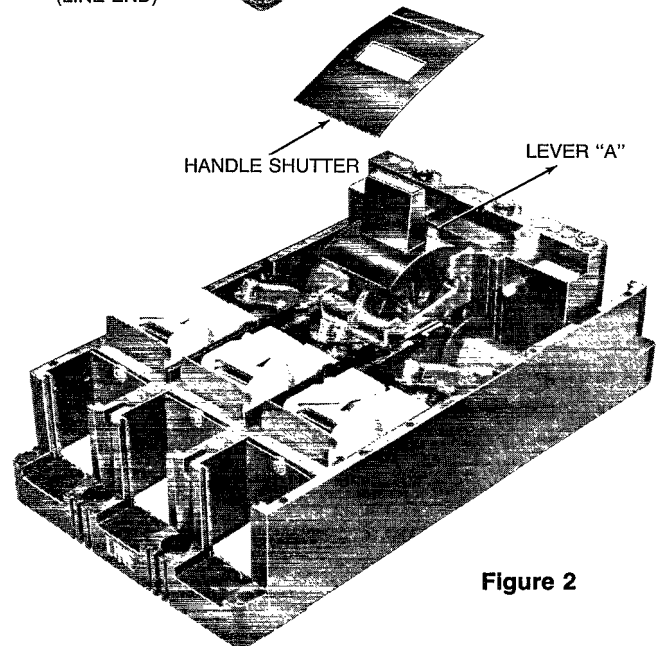
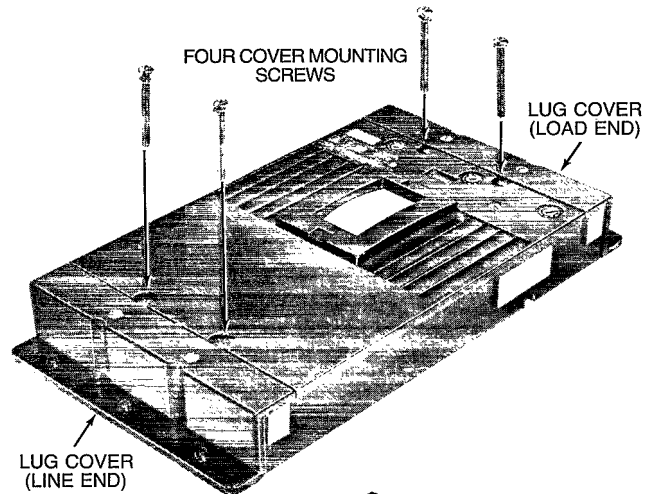


Figure 2

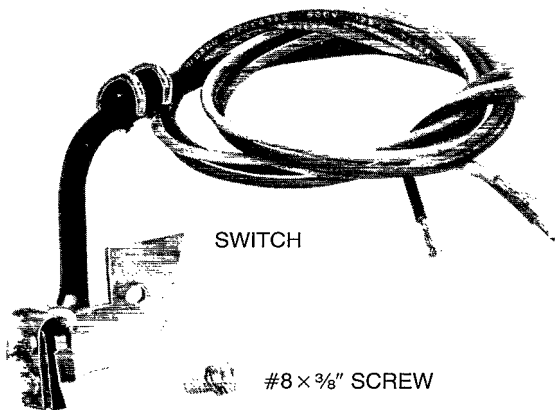


Figure 1

## Bell Alarm Switch Accessory

6. Attach new switch assembly as shown in Figure 3, using #8 x  $\frac{3}{8}$  self-tapping screw and lockwasher. Tighten to 35 lbf-inch torque.

7. Push button "B" in direction of arrow to assure trip unit is tripped.

8. Push lever "C" in direction of arrow until it latches back.

9. Reassemble lockwasher then plain washer on Phillips screws and install in trip unit terminal straps (line side).

10. Insert trip unit into breaker frame, making sure switch actuator lies along side of breaker cradle, as shown in Figure 4.

To insert trip unit to its final position with the trip unit locating tabs in the mechanism frame notches, push lever "A" in direction of arrow.

11. With trip unit fully seated, tighten Phillips screws to 100 inch pounds torque.

12. Position leads as shown in Figure 5 with grip rings on either side of breaker base wall.

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

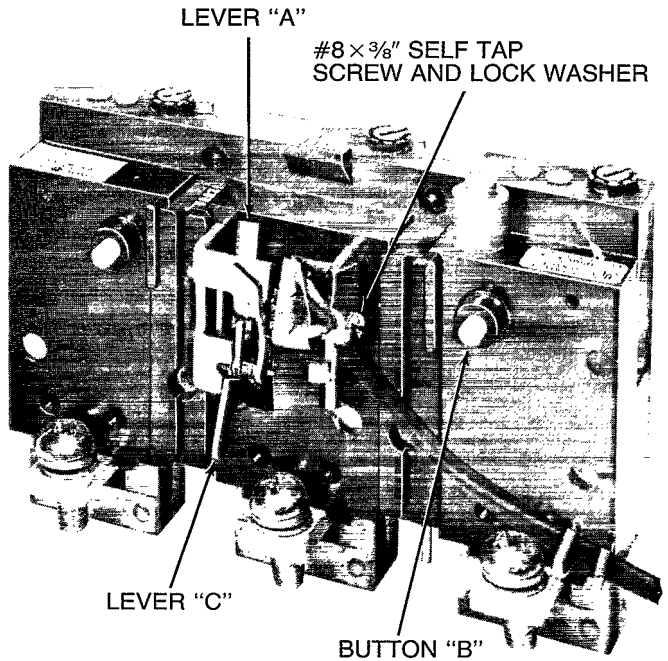


Figure 3

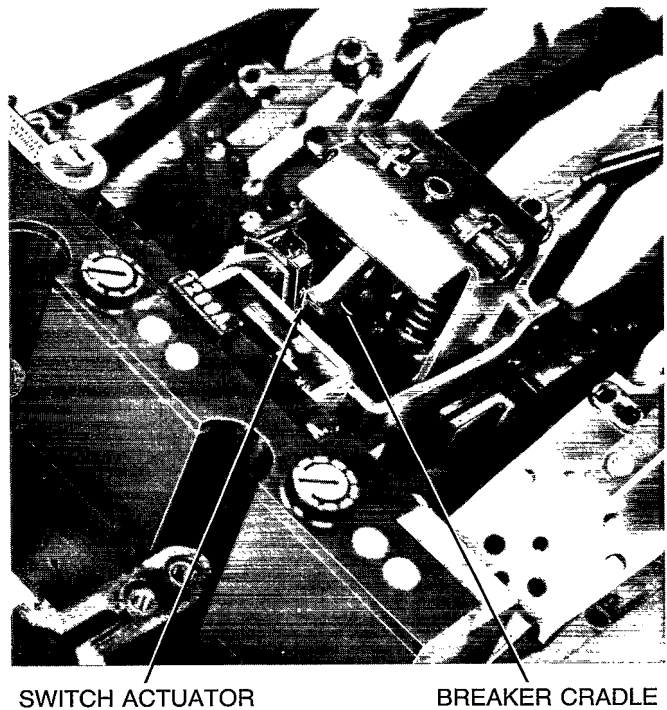


Figure 4

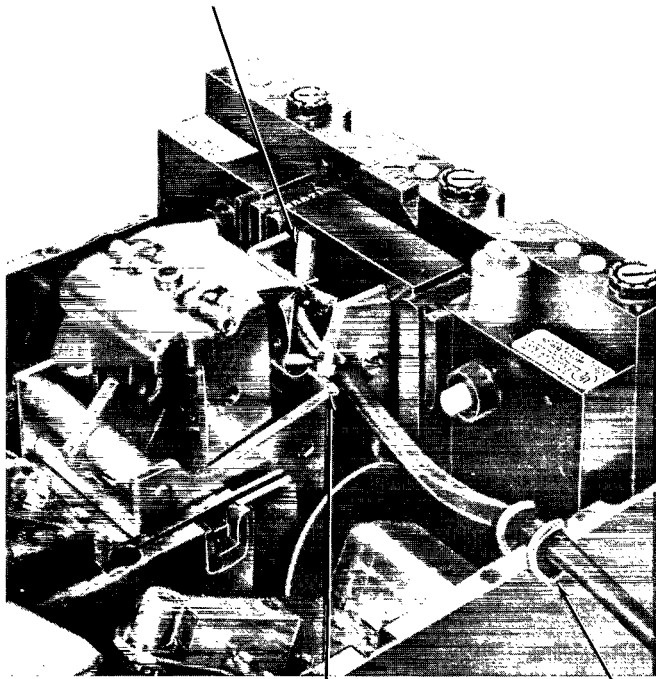
## Electro-Mechanical Tests

(Before assembling cover)

With breaker still in the tripped condition, circuit between **YELLOW** and **BROWN** should be **CLOSED**, and between **YELLOW** and **PURPLE** should be **OPEN**. If not, check to see if switch actuator has been sufficiently depressed and correct as follows:

- Reset breaker mechanism.
- Bend actuator as shown in Figure 6.
- Trip breaker to check adjustment.

PUSH LEVER "A" WHILE INSTALLING TRIP UNIT IN FINAL POSITION



LOCATING TABS ON TRIP UNIT MUST ENGAGE NOTCHES IN CIRCUIT BREAKER MECHANISM FRAME

GRIP RINGS

Figure 5

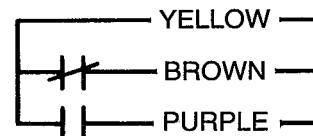
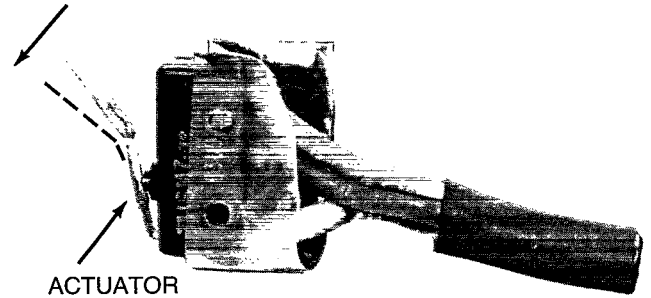


Figure 6 Bell Alarm Device

Contact positions shown for breaker, tripped condition.

## Re-Assembly of Breaker

Replace lugs, (if used), handle shutter (with white line towards load end), and breaker cover, taking care on sidewired applications that the notch in the cover straddles the leadwires.

*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.*

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