



Auxiliary Switch Accessories

For J 600 Line (TJK), K 1200 Line (TKM) And TB4, TB6 And TB8 Circuit Breakers

General

Circuit breakers and components should be handled, inspected, installed or removed by qualified personnel in accordance with accepted safety procedures.

Auxiliary switch accessories are installed in circuit breakers to operate relay, control, or indicating light circuits simultaneously with the operation of the breaker.

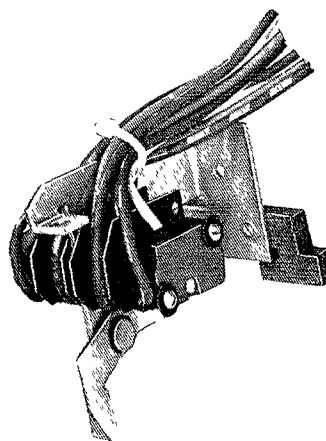
The position of the circuit breaker main contacts is indicated by closed or open auxiliary switch contacts as follows:

Normally-open, "A" contacts—open when the breaker is open or tripped, closed when the breaker is closed.

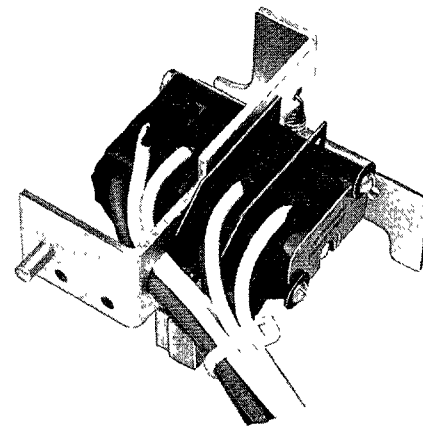
Normally-closed, "B" contacts—closed when the breaker is open or tripped, open when the breaker is closed.

Auxiliary switches for TJK or TKM circuit breaker consist of one to four "AB" elements (Figure 1). Each "AB" element is one 3-terminal, single-pole, double-throw switch with 3 color-coded wire leads connected to the switch terminals and brought out through the circuit breaker case, extending a minimum of 24 inches outside the breaker. An "AB" switch element can be used in an auxiliary circuit as a single "A" contact, using only the red and white leads, or a single "B" contact, using only the brown/white and white leads. It can also be used as both an "A" contact and a "B" contact, using all three leads, provided a common connection in the auxiliary circuit wiring between the "A" and "B" contacts is permissible.

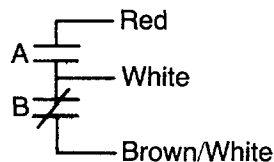
The auxiliary switch assembly is left- or right-pole mounted. It is fastened to the circuit breaker base and occupies the space adjacent to the operating mechanism. An auxiliary switch does not interfere with the operation of the trip unit or operating mechanism.



K 1200 Line Breaker



J 600 Line Breaker



Elements Schematic

Figure 1 Auxiliary Switch With Four AB Elements

Auxiliary Switch Accessories

Installation—J 600 Line Breaker Figure 2

CAUTION: The breaker must be completely de-energized and disconnected from the electrical circuit, when the auxiliary switch is being installed. This is mandatory because the breaker must be in the ON position while the accessory is being installed.

Auxiliary Switch Kits

Cat No Add L or R suffix for left or right-pole mounting		Number of Switch Elements	Maximum Ampere Rating Switch Element
For 240 volts AC	For 600 volts AC		
FOR J 600 LINE BREAKERS			
TJKASA2AB1	TJKASA6AB1	1	6A at rated voltage 1/4A at 250 volts DC 1/2A at 125 volts DC
TJKASA2AB2	TJKASA6AB2	2	
TJKASA2AB3	TJKASA6AB3	3	
TJKAST2AB4	TJKASA6AB4	4	
FOR K 1200 LINE BREAKERS			
TKMAAS2AB1	TKMAAS6AB1	1	6A at rated voltage 1/4A at 250 volts DC 1/2A at 125 volts DC
TKMAAS2AB2	TKMAAS6AB2	2	
TKMAAS2AB3	TKMAAS6AB3	3	
TKMAAS2AB4	TKMAAS6AB4	4	

Keep hands clear of mechanism at all times.

1. Remove cover from breaker by unscrewing eight cover screws. Do not remove the trip unit.
2. Be sure the circuit breaker is de-energized or removed from the circuit. With 0.125 diameter drill, drill through hole on the pole where accessory is to be installed. This hole should be drilled from the front or back of the breaker; use one of the spotting holes between pole units which is located 5³/₈" from the load end of the breaker (See Figure 3.)
3. Set switch in place, inserting locating pin into locating hole. Align the accessory mounting hole with hole drilled in step 2.
4. Fasten the accessory firmly in place with 1" × #6 self-tapping screw and lock washer (supplied).
5. To bring the accessory leads out the side of the breaker, file necessary openings in the breaker cover at any point 2¹/₂" to 3¹/₄" from the load end of the breaker.

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

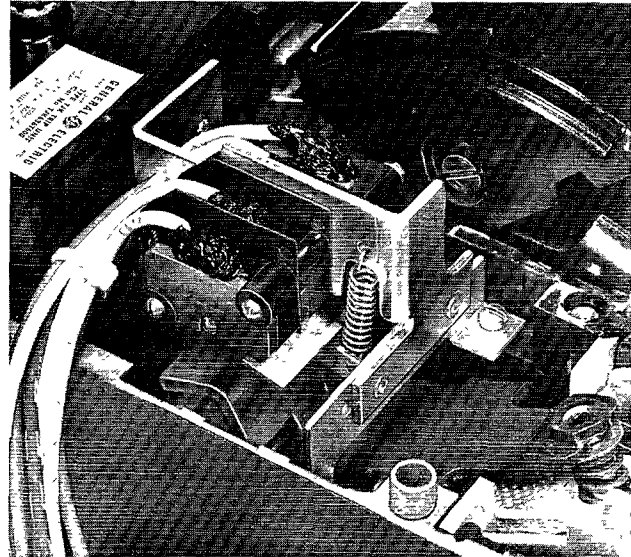


Figure 2 Auxiliary Switch installed in J 600 Case Breaker

REAR VIEW OF J 600 BREAKER
LOCATION OF SPOTTING HOLES

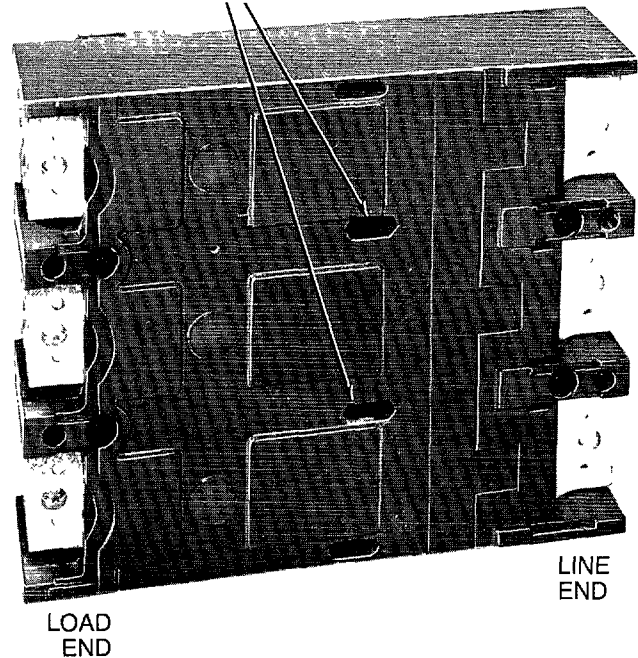


Figure 3 Spotting Holes Location

Installation—K 1200 Line Breaker Figure 4

Keep hands clear of mechanism at all times.

1. Remove the breaker cover by unscrewing the four cover screws. (Cover screws are those closest to the breaker handle.)
2. Locate the mounting bracket on the trip unit case. Fasten firmly in place (See Figure 5).
3. With $\frac{1}{4} \times 8-32$ accessory mounting screw in mounting hole, set the accessory in place. Phenolic support must sit in groove in the circuit breaker's molded base. Fasten firmly in place.
4. To bring the accessory leads out of the side of the breaker, file the necessary openings on accessory pole of the breaker cover, $4\frac{3}{4}$ to $5\frac{1}{4}$ inches from the load end of the cover. Care should be taken in forming the bundle of leads so that no wires interfere with the white trip button. Remove the load lug cover when making the measurement.

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

Check for proper operation of The accessory after installation.

Mechanical Check:

With the breaker open, check to be sure that the switch actuator does not depress the switch buttons. Switch buttons are depressed when the breaker is closed.

Electrical Check:

Check for continuity to see that:

“A” contacts (red and white leads) are open when the breaker is open or tripped, and closed when the breaker is closed; “B” contacts (brown/white and white leads) are closed when the breaker is open or tripped; and open when the breaker is closed.

For future identification of the respective “AB” elements after the breaker cover is replaced, the leads associated with each “AB” switch element should be marked or taped together during the continuity check.

Replace the circuit breaker cover (arrange leads through the side opening), taking care that loops and ties or restraining discs are inside the breaker cover, and wire tie or disc is outside the breaker cover. Tighten the cover screw. The breaker is now ready for mounting.

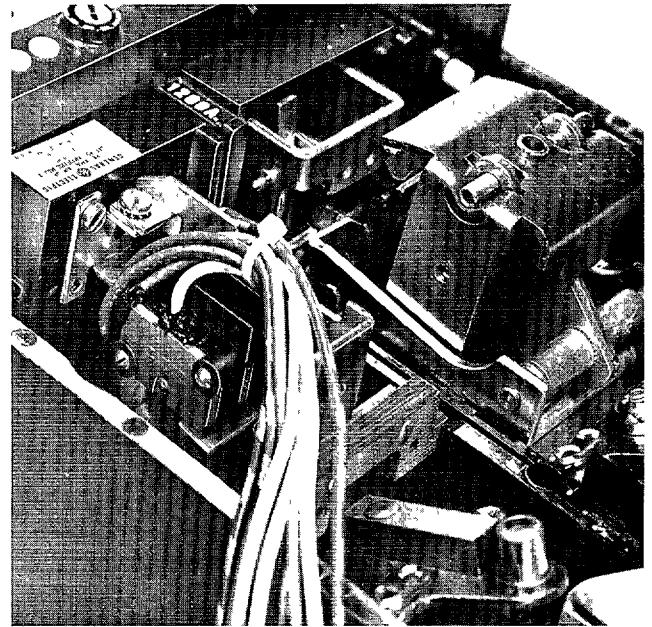


Figure 4 Auxiliary Switch installed in
K 1200 Molded Case Breaker.

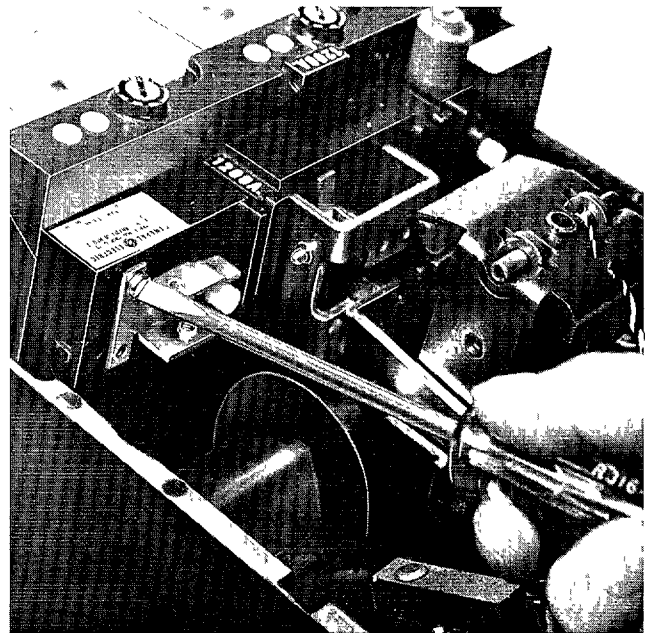


Figure 5 Mounting Bracket on TKMA trip unit

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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