



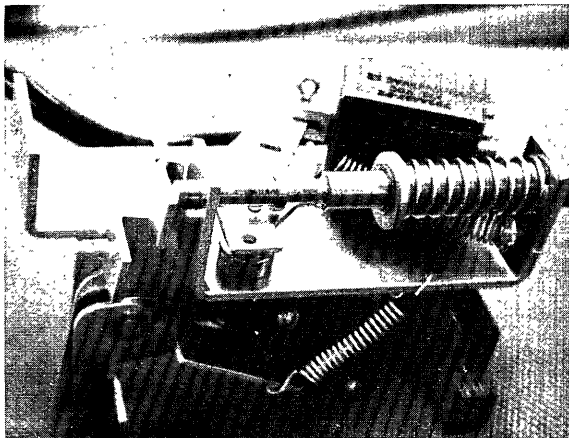
K1200 LINE BREAKERS (ambient compensated) TB6 and TB8

Mounting Shunt Trip and Undervoltage Release

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

CAUTION: The breaker should be completely de-energized and disconnected from the electrical circuit while the accessory is being installed. Installation should be by qualified personnel only, in accordance with instructions and safety precautions.

SHUNT TRIP



A shunt trip accessory provides remote tripping of a breaker. The accessory consists of a solenoid whose core is affixed to a spring-biased latch. When the solenoid coil is energized by closing the control circuit at remote contacts, the solenoid core releases the latch allowing a spring-loaded shaft to move the trip button and trip the breaker. A cut-off switch opens the solenoid electrical circuit when the breaker contacts open, because the solenoid coil is designed to carry momentary current only; it is not rated for continuous current.

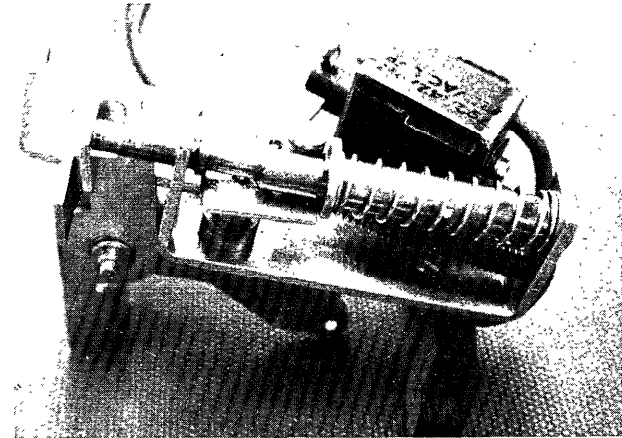
The breaker must be reset before it can be closed again.

Both accessories are reset automatically by the breaker movable contact assembly when it is in the "OPEN" position. For right- or left-pole installation, both accessories mount to the trip unit base adjacent to the operating mechanism. Accessories do not interfere with normal breaker operation.

ELECTRICAL DATA FOR SHUNT TRIP

Coil Voltage	Max. Inrush Current to Trip Breaker (Peak Amperes)	Kit Cat. No. (Add Suffix L or R for Right or Left Pole Mounting)
60 Cycles AC		
120	1.0	TKMASTA12
240	1.9	TKMASTA12
480	1.5	TKMASTA13
600	1.9	TKMASTA13
DC		
12	4.8	TKMASTA7
24	4.6	TKMASTA8
48	2.4	TKMASTA9
125	1.0	TKMASTA12
250	0.4	TKMASTA11

UNDERVOLTAGE RELEASE



The undervoltage release automatically trips the breaker when there is a power loss or major voltage dip. It consists of a solenoid with a moving armature affixed to a spring-loaded latch. The latch restrains a spring-biased shaft. When the shaft is released it moves the trip button to trip the breaker.

As long as the voltage to the solenoid is normal, the solenoid magnetic force with the spring force of the latch prevents tripping. If the voltage is removed or dips to less than 60% of rated voltage, the latch allows the plunger to trip the breaker. (Drop-out adjustment is factory-set.)

If voltage has not been restored to at least 80% of nominal, the breaker will trip if reset and reclosed. *Repeated operation without coil voltage will damage the breaker.*

ELECTRICAL DATA FOR UNDERVOLTAGE RELEASE

Coil Voltage	Sealed-in Current at Rated Voltage (RMS Amperes)	Kit Cat. No. (Add Suffix L or R for Right or Left Pole Mounting)
60 Cycles AC		
120	.018	TKMAUVA1
240*	.018	TKMAUVA2
480*	.018	TKMAUVA4⓪
600*	.018	TKMAUVA6⓪
DC		
12	.200	TKMAUVA7
24	.100	TKMAUVA8
48	.050	TKMAUVA9
125	.018	TKMAUVA10
250⓪	.018	TKMAUVA11

⓪Kit includes resistor to be externally mounted by the installer.

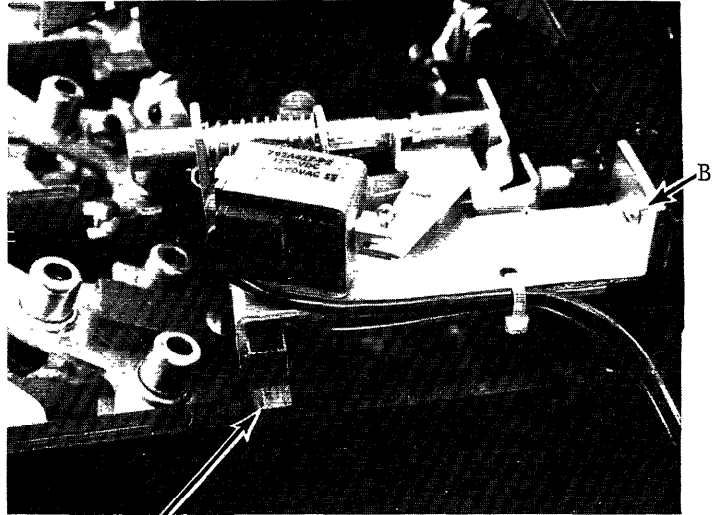
MOUNTING SHUNT TRIP AND UNDERVOLTAGE RELEASE ACCESSORIES for K1200 Line Ambient Compensated Circuit Breakers

INSTALLATION INSTRUCTIONS:

1. Remove the cover from the breaker. Unscrew four cover screws. (Cover screws are those closest to the breaker handle.) Remove the fiber handle shield.
2. Place the accessory in proper pole position. Determine position by notches "A" in the frame of the breaker. These notches receive the phenolic support of the accessory device. The Reset part of the accessory trip lever must be on the load side of the breaker crossbar.

Fasten the device to the trip unit with self-tapping screw and lockwasher provided, "B".

3. File openings in the breaker cover (accessory pole side) 4" from the load end of the breaker cover, not including the lug cover. (The accessory leads can be brought thru as the breaker cover is replaced.) Take care that strain relief ties or discs are placed one on each side of hole in cover.



A

Shunt Trip Installed

MECHANICAL CHECK

Shunt Trip

1. Relatch and turn breaker ON.
2. Make sure cutoff switch actuator depresses button. It should not touch the button with breaker OFF.
3. Keep hands and fingers clear of mechanism, and depress solenoid core into solenoid. If breaker does not trip, check STEP 2 of Installation Instructions.

Undervoltage Release

1. Relatch breaker.
2. Hold core in solenoid and turn breaker ON.
3. Keep hands and fingers clear of mechanism, and slowly release core. If breaker does not trip, check STEP 2 of Installation Instructions.

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.



GE Electrical Distribution & Control

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