

Item: Auxiliary Switches
 For use with: Siemens' Circuit Breakers or Non-Automatic Switches
 Type: SBxyzz
 Cat. No.: SBAS2, SBAS4, SBAS6, SBAS8, SBAS10, SBAS12
 x=A, S, H, or N yy=4, 8, 08, 12, 16 or 20 zz=00, 04, 08, 12, 16 or 20
 Cat. No.: SB4AS2, SB4AS4, SB4AS6, SB4AS8, SB4AS10, SB4AS12
 x=A, S, H or N yy=40 zz=00, 25, 32 or 40
 Page 1 of 8

Siemens Energy & Automation, Inc.
 Bellefontaine, OH 43311 U.S.A.

Installation Instructions

! DANGER

Hazardous voltage. Will cause death or serious injury.

Turn off and lock out all power supplying the circuit breaker prior to cover(s) removal or while cover(s) are removed and when installing any internal or external accessory.

Replace the cover(s) and shield(s) before power supplying this device is turned on.

! WARNING

Mechanical Hazard. Mechanism can cause severe injury when cover is removed.

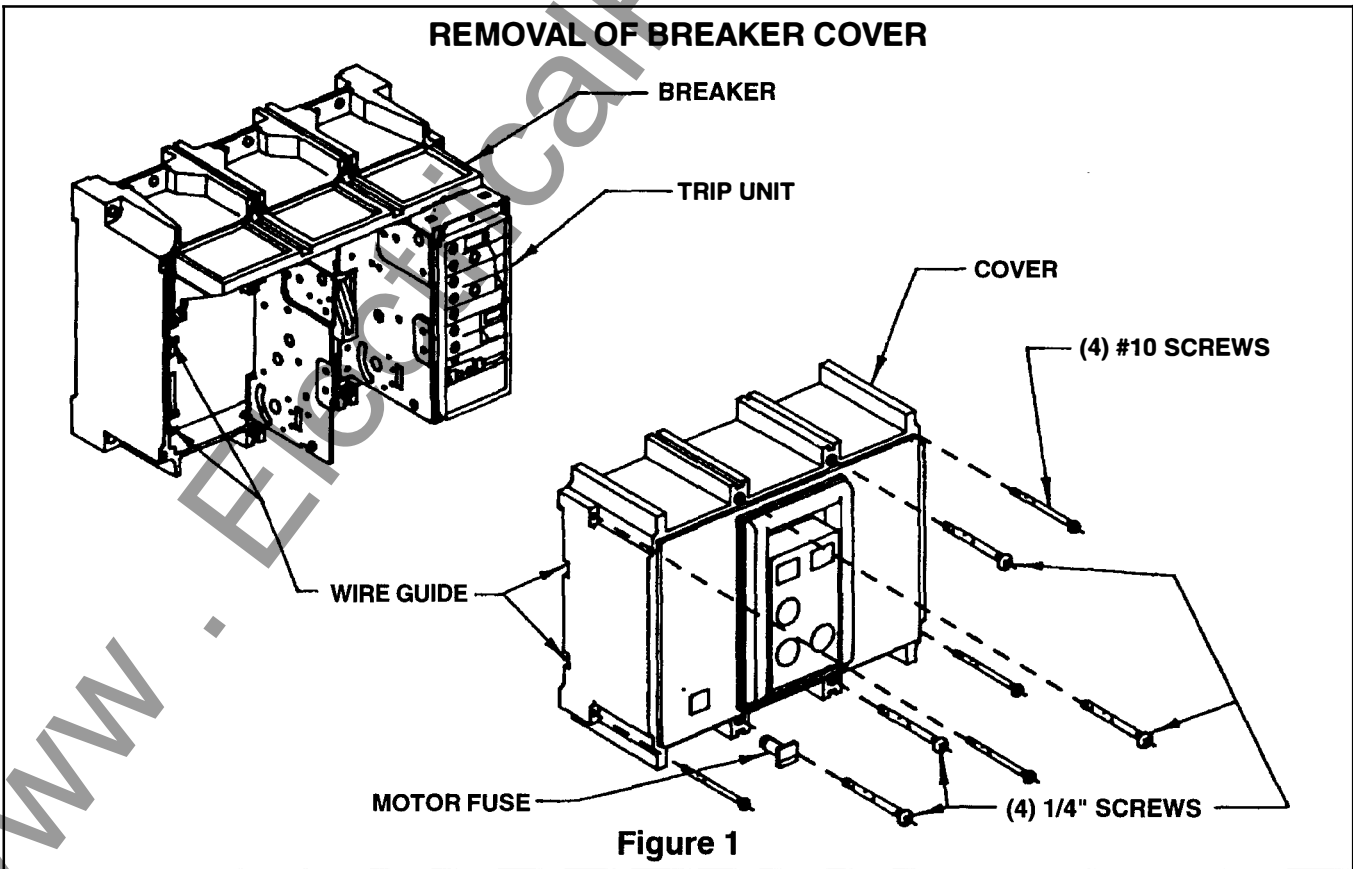
Before removing cover
 Remove motor fuse
 Push open button
 Push close button
 Push open button again.

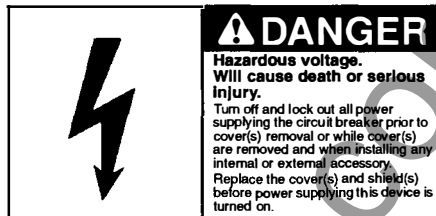
SAFETY INSTRUCTIONS

NOTE: These instructions outline the recommended installation procedure.

MOUNTING OF AUXILIARY SWITCHES

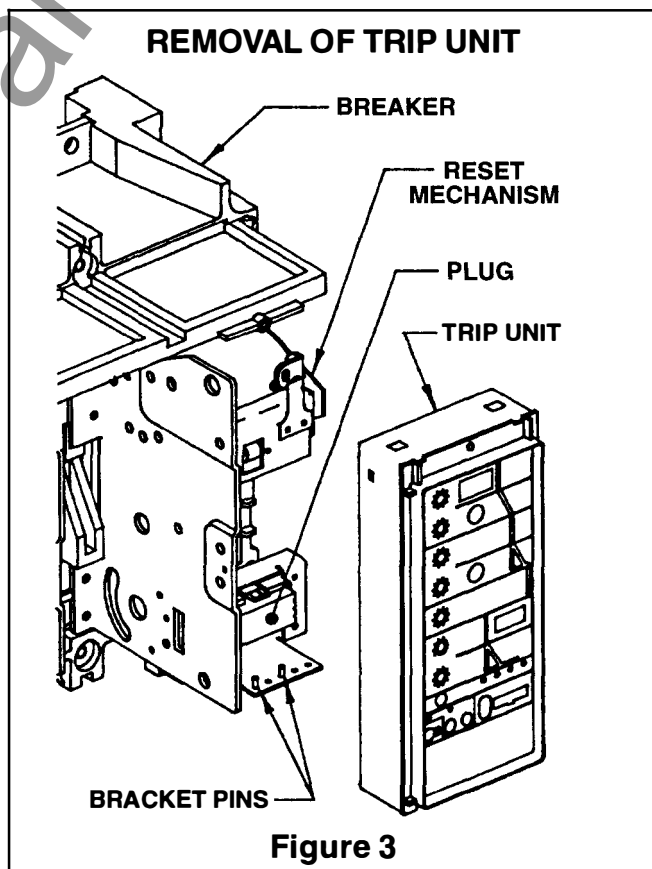
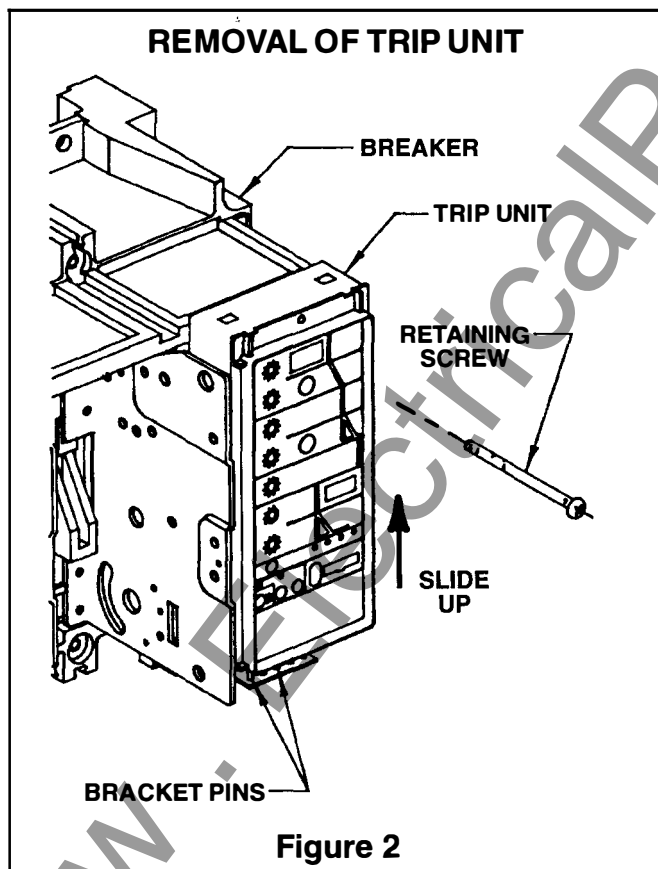
- Accessory installation should be completed before the breaker is mounted and connected. If the breaker is installed turn off and lock out all power supplying the circuit breaker prior to cover removal or while cover is removed. For ease of installation, it is highly recommended that the breaker be disconnected and removed from the panel or the enclosure.

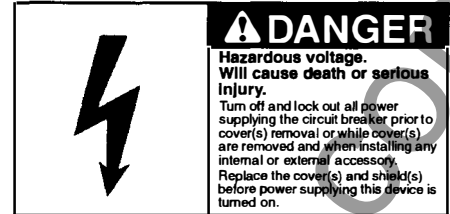




Installation Instructions

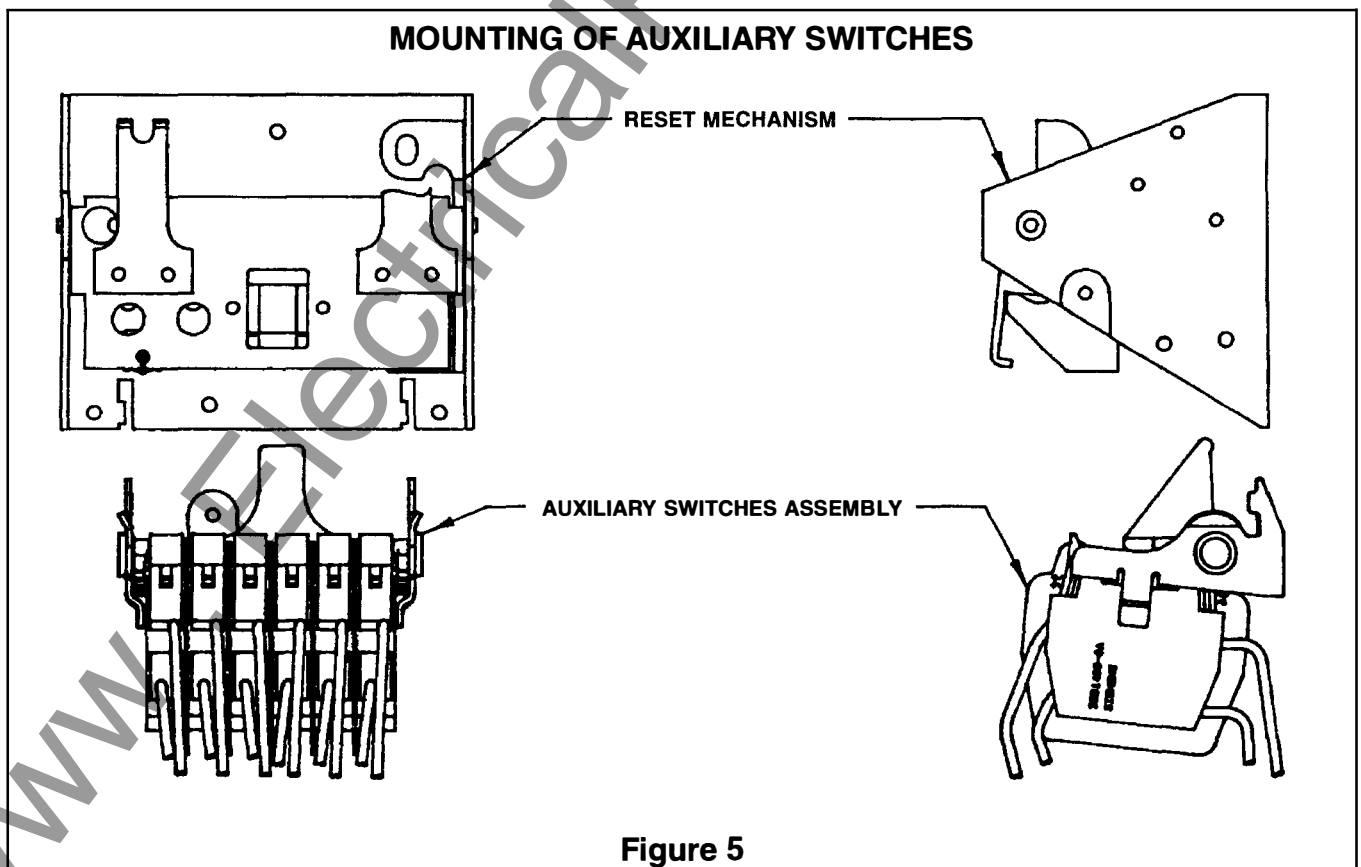
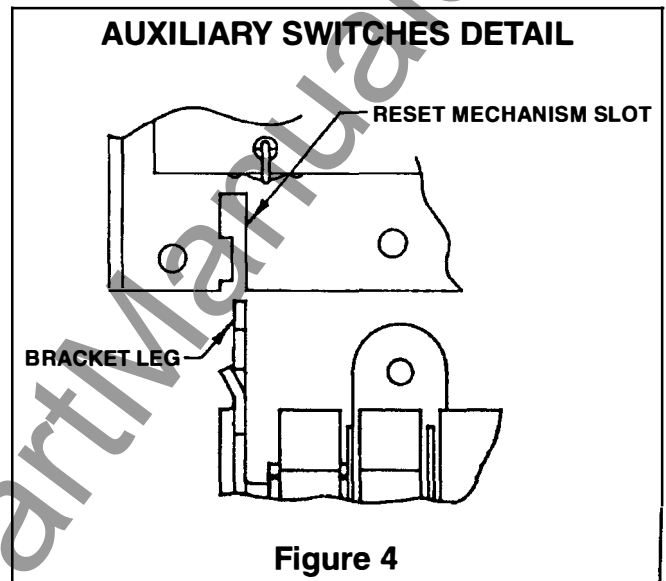
2. Remove motor fuse (See Figure 1, Page 1).
3. Check to be sure breaker main contacts are open and closing springs are discharged by first pushing the Open button, pushing the Close button and then pushing the Open button again.
4. To install the Auxiliary Switches the breaker cover and trip unit must first be removed.
5. Remove the breaker cover by removing the (4) #10 Phillips head screws at the corners and the (4) 1/4" Phillips head screws in recesses of the cover (See Figure 1, Page 1).
6. Remove the Trip Unit retaining screw (See Figure 2).
7. Slide the Trip Unit up to clear the Trip Unit Support Bracket pins (See Figure 2).
8. Remove the Trip Unit by pulling it off the Trip Unit Plug (See Figure 3).

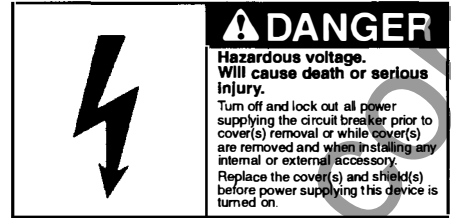




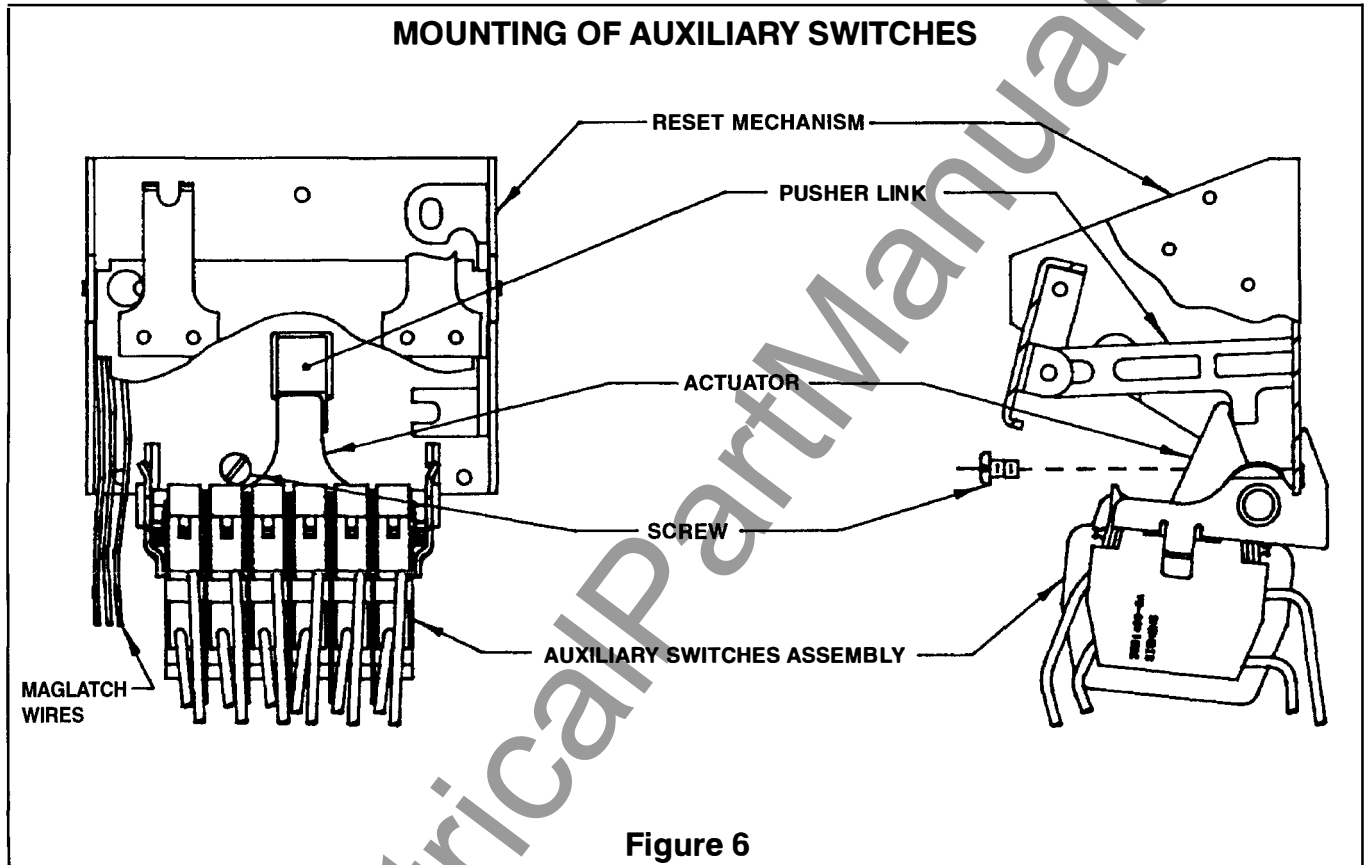
Installation Instructions

9. Position the Auxiliary Switches Assembly so that the Bracket legs align with the Reset Mechanism Slots (See Figure 4 and 5). Slide the Bracket Legs into the Reset Mechanism Slots.
10. Shift the Auxiliary Switches Assembly to the left until the Bracket mounting hole aligns with the hole in the Reset Mechanism (See Figure 7).

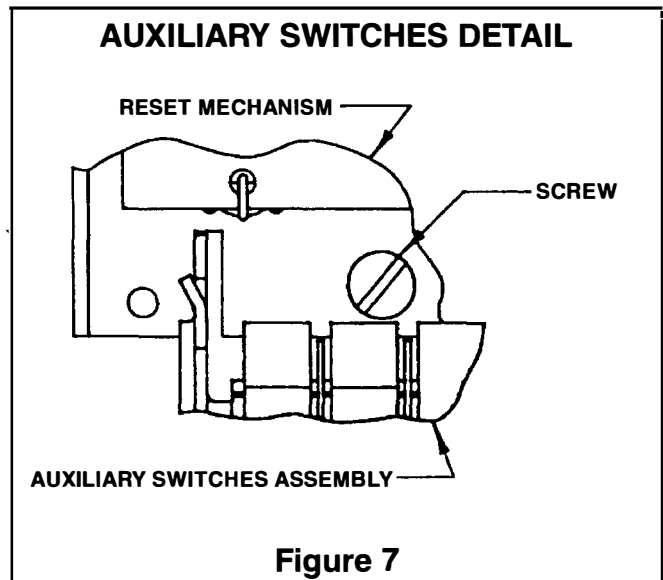


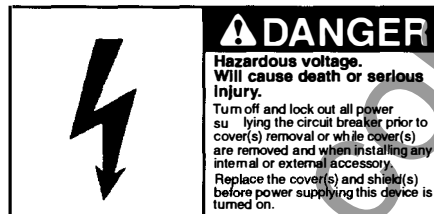


Installation Instructions



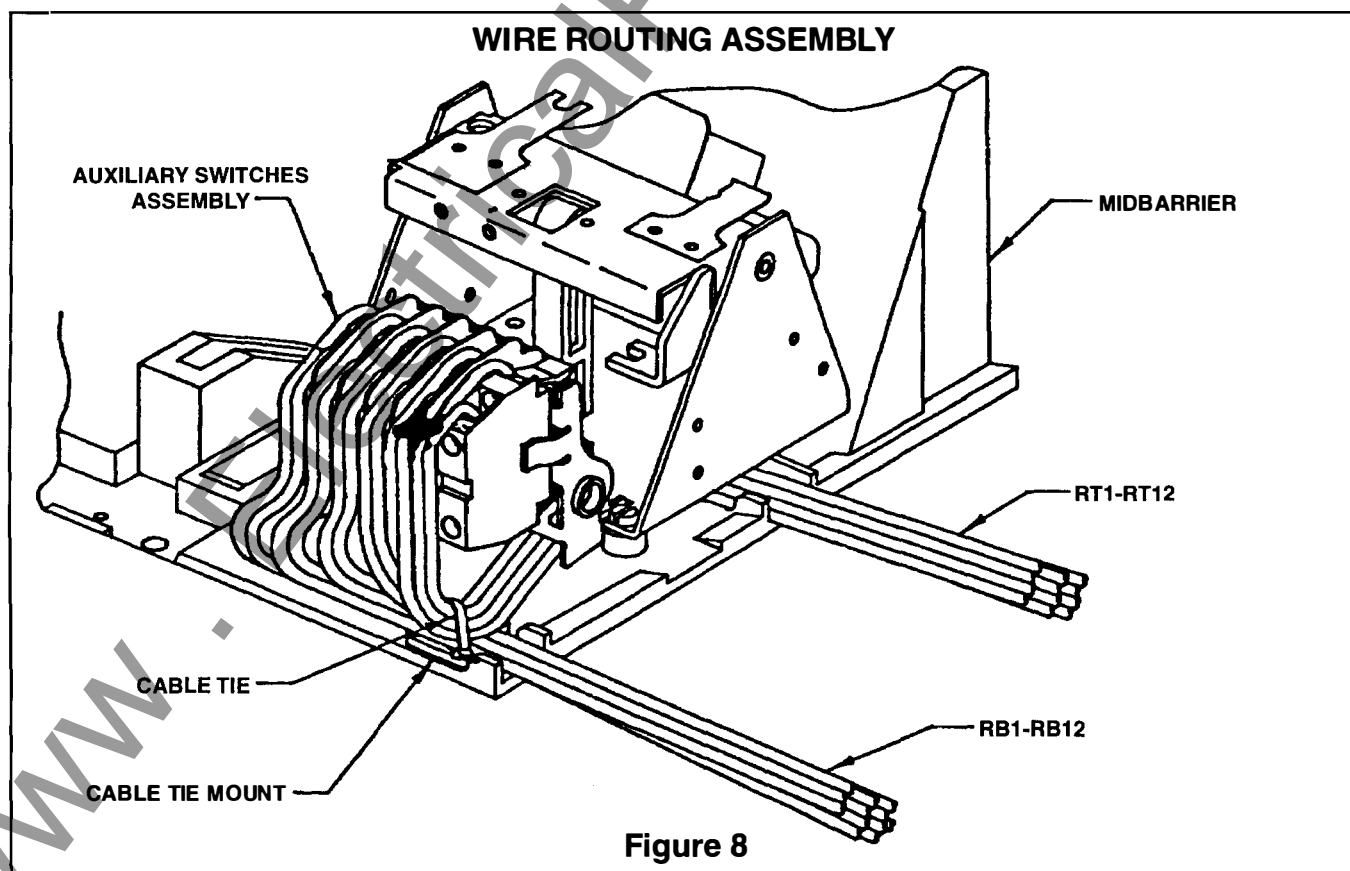
11. Make sure that the Actuator rests on top of the Pusher Link (See Figure 6). Make sure no Maglatch wires or other wires are routed underneath the Auxiliary Switch Actuator.
12. Secure the assembly with the screw provided. Torque screw to 9-11 in-lbs.

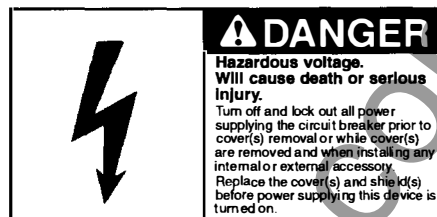




Installation Instructions

13. Add Cable Tie Mount see (Figure 8 for location).
14. Route RT1-RT12 wires under the reset mechanism and out the top wire guide in the midbarrier (See Figure 8).
15. Route RB1-RB12 through the bottom wire guide in the midbarrier.
16. Insert Cable Tie into the Cable Tie Mount. Wrap Cable Tie around all Auxiliary Switch wires. Tighten Cable Tie to secure wires.





Installation Instructions

WIRE ROUTING ASSEMBLY

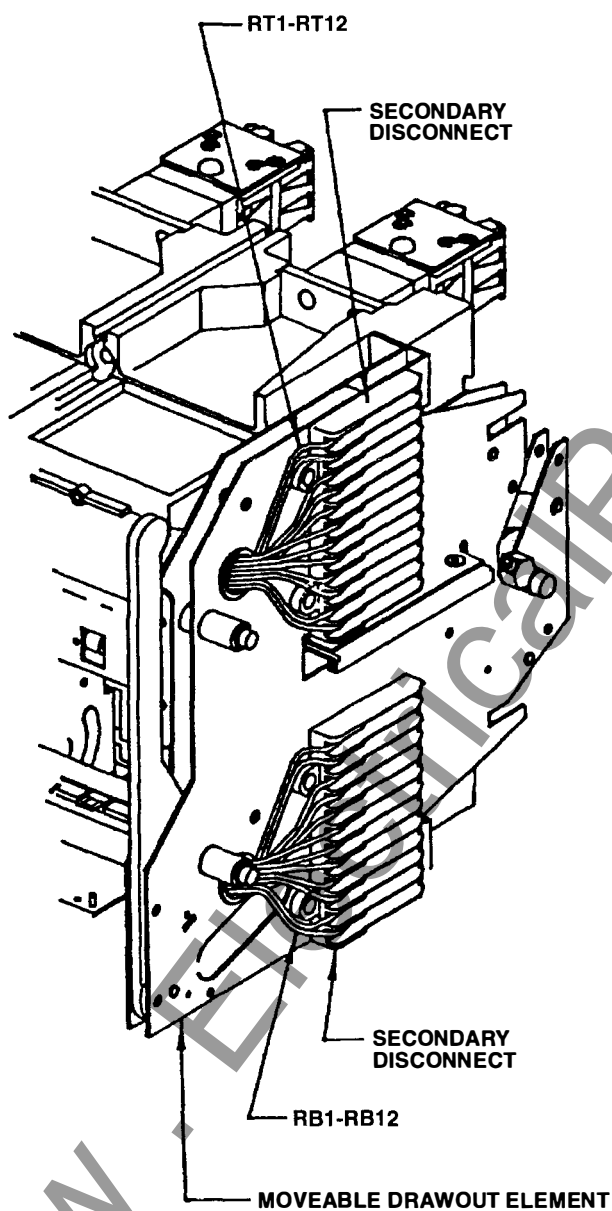


Figure 9

17. Replace the Trip Unit by pushing it onto the plug. Slide the Trip Unit over the bracket pins. Secure the Trip Unit by replacing the mounting screw. Torque screw to 6-8 in.-lbs. (See Figure 2 and 3, Page 2).
18. Replace drawout element for drawout breaker. See Siemens Type SB Systems Breaker Information and Instruction Guide for installation.
19. For drawout breakers route wires through the hole in the drawout moveable element. Connect the RT1-RT12 and RB1-RB12 connectors to the proper Secondary Disconnect locations (See Figure 9).
20. Replace the breaker cover. Check to ensure that the wires exit the breaker through the wire guide and are not pinched by the breaker cover (See Figure 1, Page 1).
21. For fixed mounted breakers connect the RT1-RT12 and RB1-RB12 connectors to the proper Terminal Block locations.
22. Apply the Auxiliary Switches Label to the side of the cover (See Figure 10). Mark the accessory label to indicate that the Auxiliary Switches have been installed.
23. Replace the motor fuse (See Figure 1, Page 1).

LABEL MOUNTING

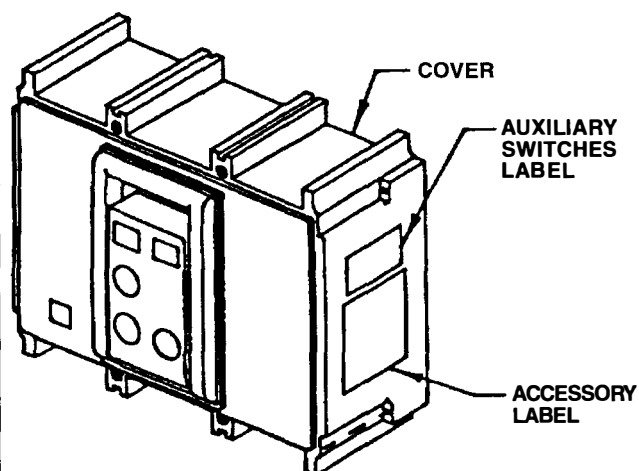
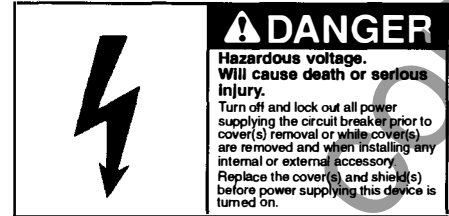


Figure 10



Installation Instructions

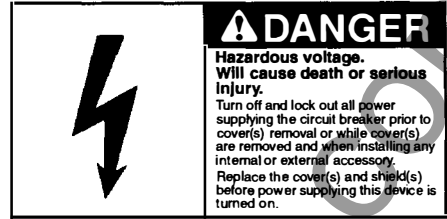
ELECTRICAL CHECK

1. With breaker main contacts open, check for continuity on "B" contacts and for no continuity on "A" contacts.
2. Charge the breaker springs and close breaker by pushing the close button.
3. Check for continuity on "A" contacts and for no continuity on "B" contacts.
4. If the Auxiliary Switches do not function properly during check procedure, check for incorrect installation or wiring.

ELECTRICAL DATA FOR AUXILIARY SWITCHES

Rating Voltage	Make, Break, and Continuous Current (Amperes)	Catalog Number	
60 Hz AC			
120	10	SBAS2 THRU SBAS12	SB4AS2 THRU SB4AS12
240	10	SBAS2 THRU SBAS12	SB4AS2 THRU SB4AS12
480	6	SBAS2 THRU SBAS12	SB4AS2 THRU SB4AS12
DC			
24	3	SBAS2 THRU SBAS12	SB4AS2 THRU SB4AS12
125	0.5	SBAS2 THRU SBAS12	SB4AS2 THRU SB4AS12

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Installation Instructions

AUXILIARY SWITCHES SCHEMATIC

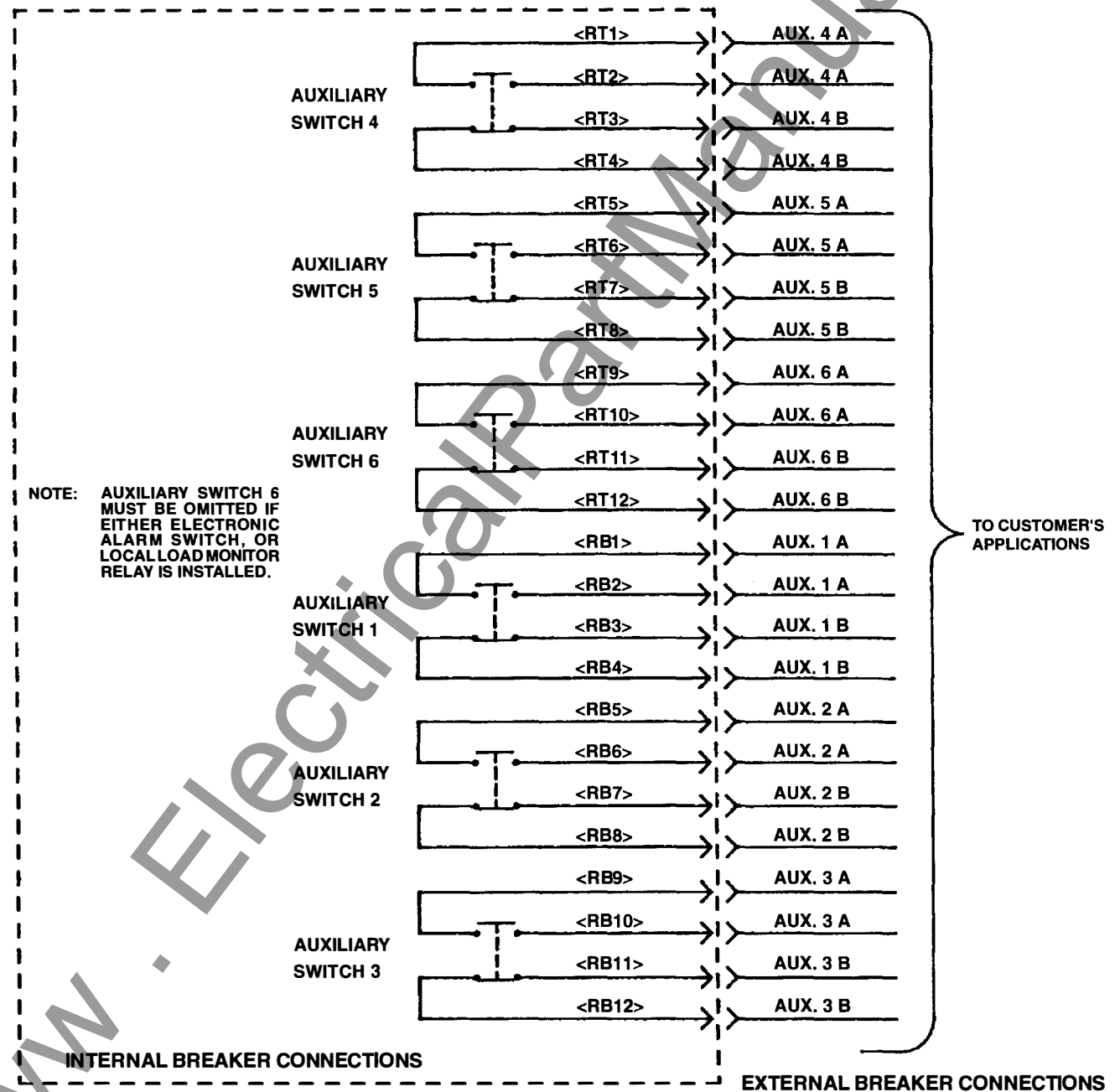


Figure 11