



# Spectra RMS™ Molded Case Circuit Breaker Accessories

Adapter Kit Cat. No. SKFMLAK, for mounting Motor Operated Mechanisms and a Face Mounted Interlock on type SK Spectra RMS circuit breakers.

**WARNING:** Danger of electrical shock or injury. Turn **OFF** power ahead of the device before lug installation or modification. Do *not* remove circuit protective devices until the power is turned **OFF**.

## DESCRIPTION

This adapter kit includes parts and hardware for coupling two SKMOM Motor Operated Mechanisms with a SKFMI Face Mounted Interlock and two SK1200 frame size circuit breakers.

## INSTALLING THE FACE MOUNTED INTERLOCK (SKFMI)

1. Install rating plugs and any required internal accessories.
2. Drill and tap panel face for  $\frac{5}{16}$ -18 thread or  $\frac{3}{8}$  dia. Clearance hole per the hole pattern in Fig. 1.
3. Secure both SK1200 circuit breakers on panel face using 8 mounting studs and flatwashers  $\frac{5}{16}$ . Tighten studs at least 35 lb.-in. min. See Fig. 2.
4. Attach line and load circuit breaker terminals and conductors. If using lugs, torque screws to the specified value found on the breaker label or lug instruction sheet.
5. Remove handle extension from SK1200 breakers.

**CAUTION:** If using lugs, Lug Covers must be installed.

6. Make sure both breaker handles are in the OFF position, all Lug Covers are in place, and knockouts removed before mounting the Face Mounted Interlock.
7. Position the Face Mounted Interlock above the breakers. Line up the sliding handle cams with the breaker handles and lower the Interlock onto the breakers.
8. Secure FMI using  $\frac{5}{16}$ -18 X  $\frac{3}{4}$  hex bolts, and lockwashers provided with the FMI hardware kit.

## INSTALLING THE ADAPTER KIT (SKFMIAK)

9. With the eight main mounting holes lined up with the mounting studs, position and loosely secure face plates using four #10-32 X  $\frac{3}{4}$  lg. screws 2, and lockwashers 4, flatwashers 5, and hex nuts 3. Do not tighten Face Plate screws as they may require slight alignment with the Motor Operators after installation.
10. Secure hinges, equipped with self locating projections, with #10-32 X  $\frac{1}{2}$  lg. screws 1, lockwashers 4, and flatwashers 5 and hex nuts 3. Tighten screws to 25 lb.-in.

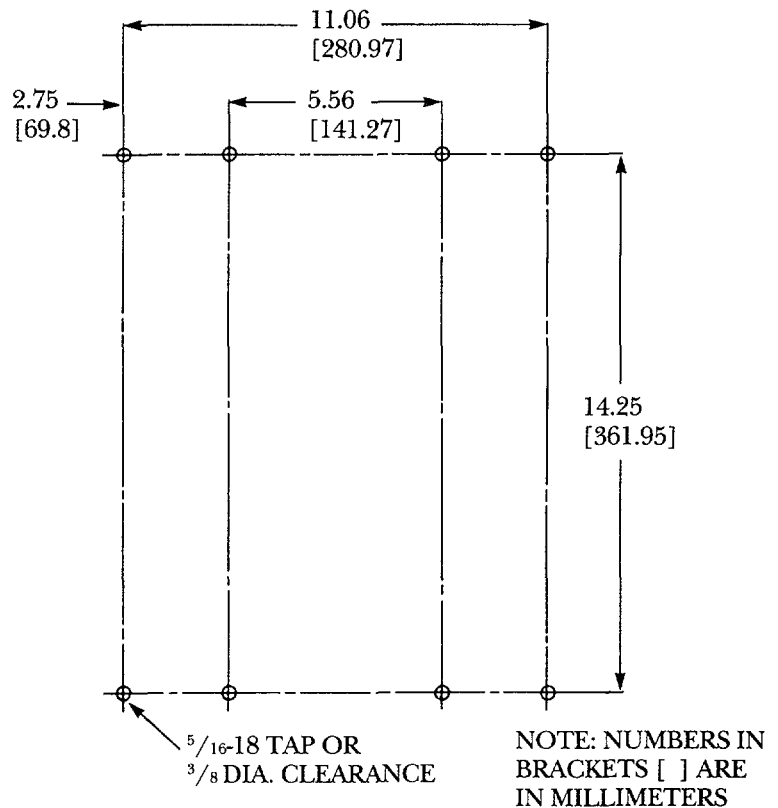


Figure 1. Mounting Hole Pattern

## INSTALLING THE MOTOR OPERATED MECHANISM (SKMOM 1 THRU 9)

11. Motor Operators are shipped from the factory with a base plate attached that hinges open. Remove this base plate while in the open position by removing 4 cotter pins from the hinge pins. Slide the pins out on both Motor Operators and save them. Discard the base plates. Extra hinge pins and cotter pins are provided with SKFMIK kits.
12. Relocate the lever actuated Micro Switches and mating fiber hood from its existing position by loosening and removing the two sets of small screws, nuts and lockwashers. Mount the switches to the bracket 8 and resecure. See Figure 3A. Using #3 X 5/8 long screws 9, lockwashers 11, and nuts 10, secure bracket with attached switch onto SKMOM wall. See Figure 3B.
13. Align the Motor Operators with the hinges, slide hinge pins into place, and insert cotter pins into their holes on the pins.
14. Slowly close Motor Operators onto the breaker handles and align carriages by turning the carriage adjustment screw manually until brass rollers straddle the handle. Latch the Handle Operators by firmly pushing them closed. If the sheet metal sides of the Motor Operator hit the catch stud on the face plate, adjust the face plate to clear and tighten screws to at least 25lb.-in.
15. Refer to the Motor Operator instruction sheet GEH-5614 for wiring diagram Fig. 5.

**CAUTION:** Using the Motor Operated Mechanisms to close both breakers at the same time may cause physical damage to the assembly.

It is recommended that a back-up electrical interlock be co-used to prevent this situation from occurring.

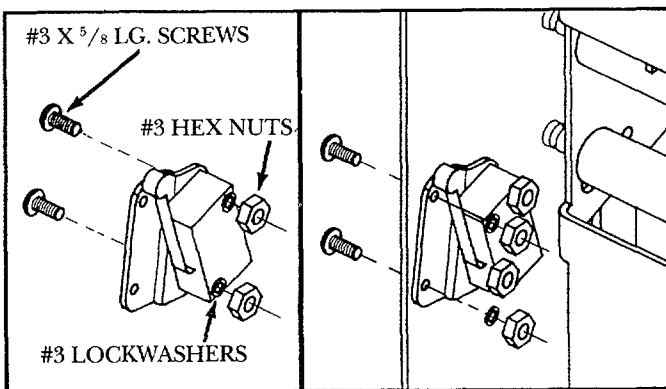


Figure 3A.

Figure 3B.

Micro Switch Mounting Orientation

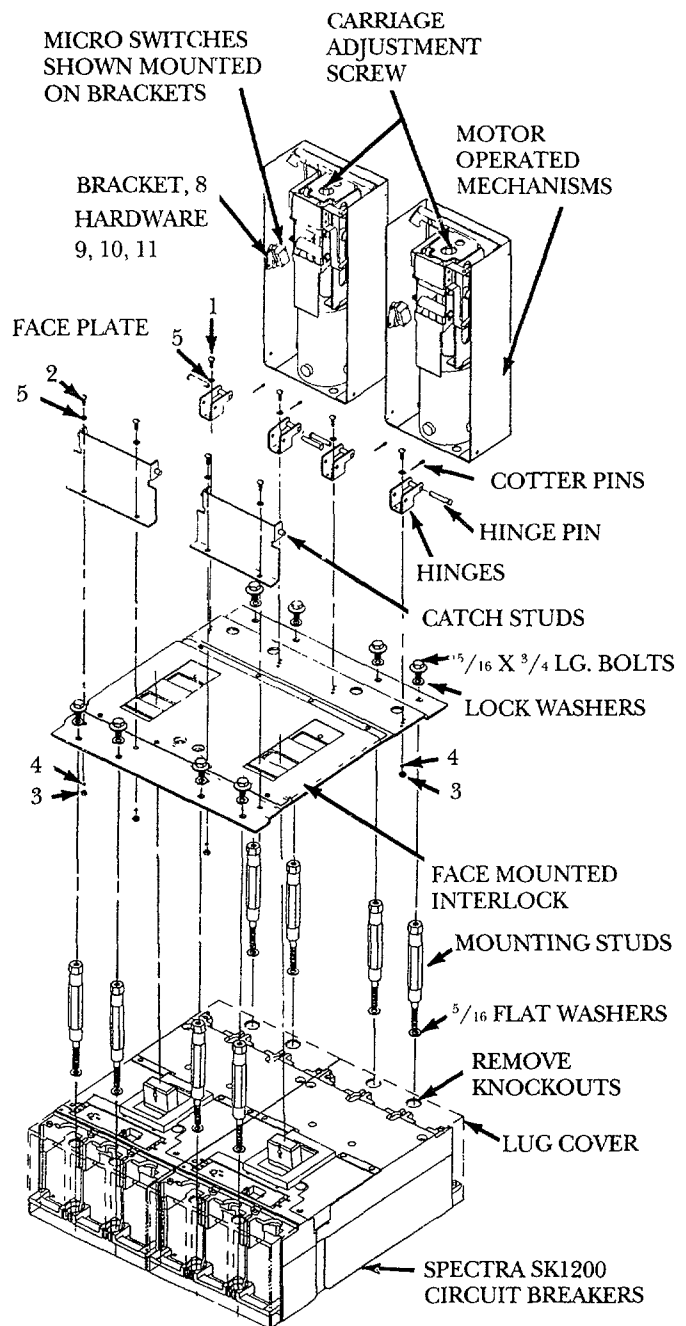


Figure 2.

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.



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