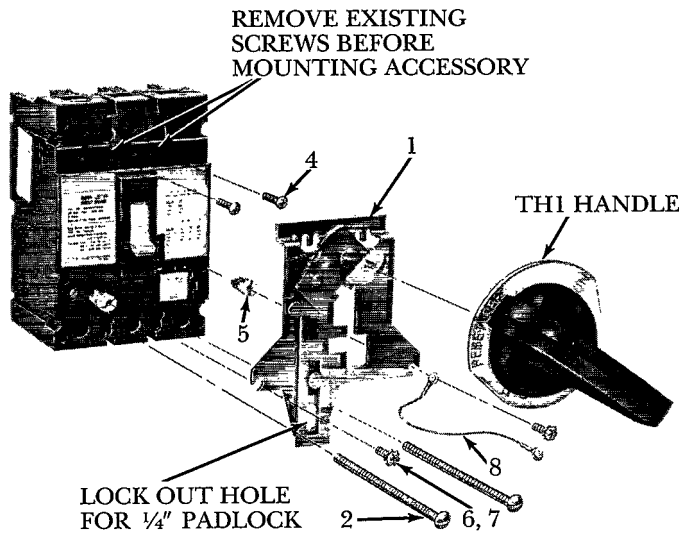




Spectra RMS™ Molded Case Circuit Breakers

TDM Handle Operating Mechanism for SE150 Frame Size Circuit Breakers Cat. No.'s SEFHM1, SEFOM1, SEFHM2, SEFOM2 (MOD 2)



SEFOM1 Shown with TH1 Handle with SE150 Frame Breaker

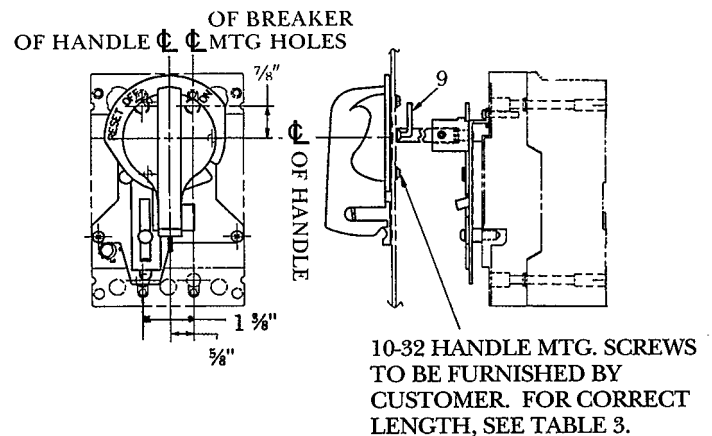


Figure 1.

MOUNTING INSTRUCTIONS

NOTE: Breaker can be mounted before securing accessory. Breaker mounting screws are provided, (2) #8-32 x 2 3/4 lg.

SE150 Frame

- A. Move breaker handle to the OFF position.
- B. Remove existing accessory cover mounting screws (4).
- C. Loosely thread two slotted panhead screws, M3.5 - 10 (.393 in.) (4) into cover. Leave 1/8" space between cover surface and head of screw.
- D. Thread in insert-spacer (5), two places. Be careful not to overtorque, only seat to shoulder.
- E. Slide operating mechanism into place (1).
- F. Secure mounting screws (6) and ground wire (8).
- G. Torque the two panhead M3.5 - 10 (4) to 8 in. lbs.
- H. For SEFOM2, measure and cut shaft length to size. See Figure 4 and Figure 5.
- I. Insert shaft into mechanism collar and torque 1/4-20 Allen locking set screw to 40-50 lb.-in. using 1/8" Allen key wrench.
- J. For 15" long shaft order Cat. No. 788A831G10
- K. For 20" long shaft order Cat. No. 788A831G20

- L. Optional NFPA79 compliant inner handle - Order TH79EF. Requires minimum Shaft length (L) of 2.50".

NOTE: Brass inserts were not provided to secure the accessory cover in early production SE circuit breakers. If you are accessorizing a circuit breaker without brass inserts, use the longer thread forming screws (4) provided in place of the slotted panhead M3.5 - 10.

KIT CONTENTS

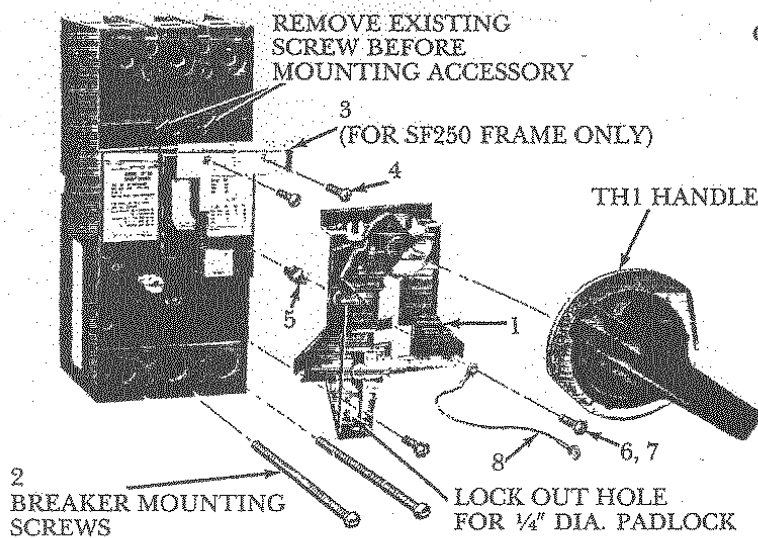
The kit contains an operating mechanism and all hardware required for mounting. Refer to the specific parts list for detailed parts identification.

TABLE 1. Box Depth dimensions

Breaker Line	Handle Operator Catalog No.	H	
		Inch	mm
SE150	SEFHM1 } SEFOM1 }	4.19	106.4
	SEFHM2 } * SEFOM2 }	5.13 min 15.0 max	103.3 min 381.0 max

* Shaft furnished for max. box depth. Customer to cut when dimension is less. See Figure 4.

TDM Handle Operating Mechanism for SF250 Frame Size



SEFOM1 Shown with TH1 Handle and SF250 Frame Breaker

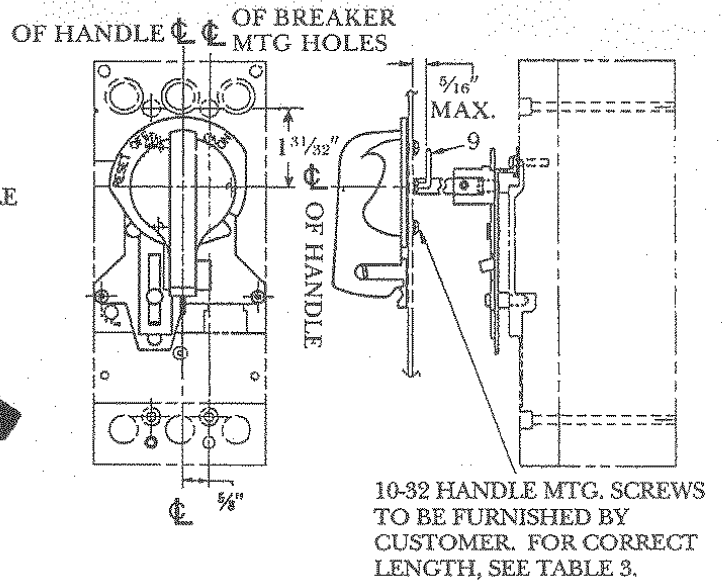


Figure 2.

MOUNTING INSTRUCTIONS

NOTE: Breaker can be mounted before securing accessory. Breaker mounting screws are provided, (2) #10-32 x 3 3/4 lg.

SF250 Frame

- A. Move breaker handle to the OFF position.
- B. Remove existing accessory cover mounting screws.
- C. Mount spacer plate (3) using two slotted panhead screws M3.5 - 12 (.472 in.) (4). Leave 1/8" between plate and head of screw.
- D. Thread in insert-spacer (5), two places. Be careful not to overtorque, only seat to shoulder.
- E. Slide operating mechanism into place (1).
- F. Secure mounting screws (6) and ground wire (8).
- G. Torque the two M3.5 - 12 (4) to 8 in. lbs.
- H. For SEFOM2, measure and cut shaft length to size. See Figure 4.
- I. Insert shaft into mechanism collar and tighten set-screw.
- J. For 15" long shaft order Cat. No. 788A831G10
- K. For 20" long shaft order Cat. No. 788A831G20

- L. Optional NFPA79 compliant inner handle - Order TH79EF. Requires minimum Shaft length (L) of 2.50".

NOTE: Brass inserts were not provided to secure the accessory cover in early production SF circuit breakers. If you are accessorizing a circuit breaker without brass inserts, use the longer thread forming screws (3) provided in place of the slotted panhead M3.5 - 12.

KIT CONTENTS

The kit contains an operating mechanism and all hardware required for mounting. Refer to the specific parts list for detailed parts identification.

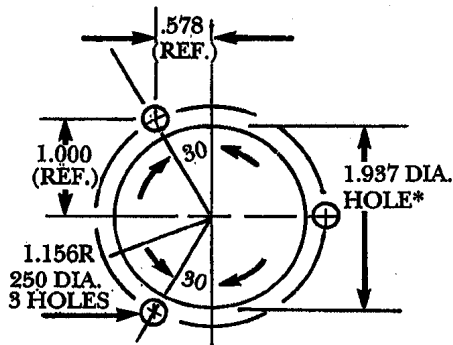
TABLE 2. Box Depth Dimensions

Breaker Line	Handle Operator Catalog No.	H	
		Inch	mm
SF250	SEFHM1 SEFOM1	4.87	123.7
	SEFHM2 SEFOM2	5.88 min 15.50 max	149.4 min 393.7 max

* Shaft furnished for max. box depth. Customer to cut when dimension is less. See Figure 4.

COVER DRILLING

For handle Cat. No. TH1 pendulum motion. For up-down motion, rotate drilling 90° clockwise. (Up-down motion not to NEMA 3R construction.)



* For Nema 1 applications when gasket is not used, hole diameter may be reduced to 1.906 inches.

TABLE 3. Handle Mounting Screw Length

Length of 10-32 Handle Mtg. Screw Required	Thickness of Cover
1/4	.083-.115
3/16	.054-.083

TABLE 4.

Application	Gasket	Handle Motion
NEMA 1	Not Required	Either
NEMA 3R	788A742P3	Pendulum Only
NEMA 12	788A742P3	Either

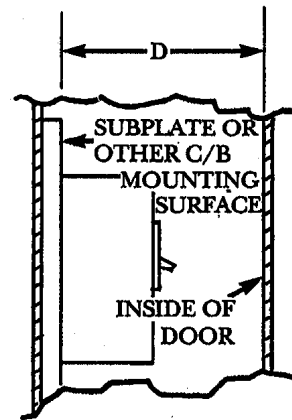


Figure 4. Determining Shaft Length

FOR SE BREAKER

Required shaft length, $L = D - 4.50$.

FOR SF BREAKER

Required shaft length, $L = D - 5.12$.

NOTE: To insure proper shaft engagement with handle, cut shaft to within $\pm 1/16$ inch.

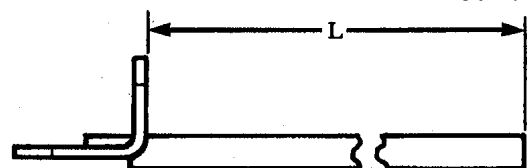


Figure 5.

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 Consumer & Industrial

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General Electric Company
41 Woodford Ave., Plainville, CT 06062
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