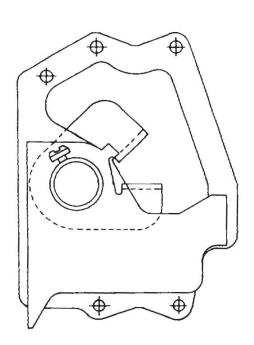
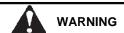
Instructions for Vari-Depth Operating Mechanisms for Types EB, EHB, FB, and F-Frame Series C Circuit Breakers, and Type HMCP (Sizes 0-4) Motor Circuit Protectors



Contents

Description			P	a	g
Assembly					





CONTACT WITH ENERGIZED EQUIPMENT CAN RESULT IN DEATH, SEVERE PERSONALINJURY, OR SUBSTANTIAL PROPERTY DAMAGE. DO NOT ATTEMPT TO INSTALL OR PERFORM MAINTENANCE ON EQUIPMENT WHILE IT IS ENERGIZED. ALWAYS VERIFY THAT NO VOLTAGE IS PRESENT BEFORE PROCEEDING WITH THE TASK, AND ALWAYS FOLLOW GENERALLY ACCEPTED SAFETY PROCEDURES.

EATON IS NOT LIABLE FOR THE MISAPPLICATION OR MISINSTALLATION OF ITS PRODUCTS.

The user is cautioned to observe all recommendations, warnings, and cautions relating to thesafety of personnel and equipment as well as all general and local healthand safety laws, codes, and procedures.

The recommendations and information contained herein are based on Eaton experience and judgement, but should not be considered to be all-inclusive or covering every application or circumstance which may arise. If any questions arise, contact Eaton for further information or instructions.

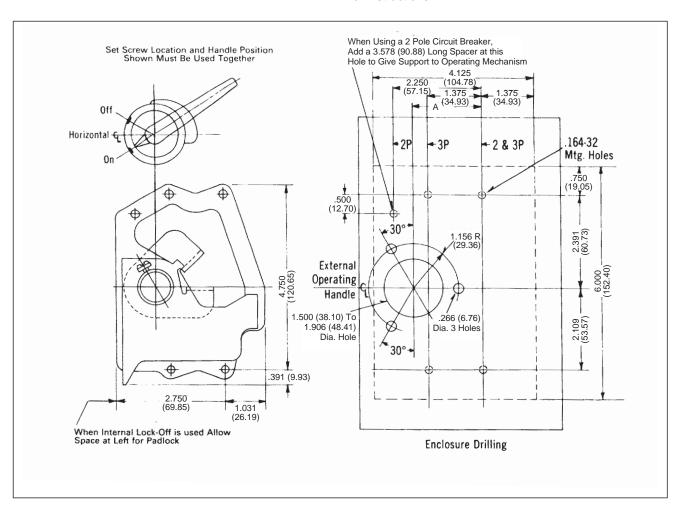


Fig. 1. Cabinet Drilling and Handle Position.

ASSEMBLY

Handle and shaft are supplied as separate items and are not included with the mechanism. Mounting hardware is furnished with the mechanism. The following assembly procedure is recommended.

- If using extra long shaft (F-Frame Series C only) assemble shaft support bracket to mechanism operating frame as per Fig. 6 with four 164-32 x 5/16" screws and lockwashers.
- Mount the Breaker and the Operating Mechanism with the four 164-32 x 3-7/8" screws and spacers provided. Narrow diameter end of spacers insert into mounting hardware access holes in Breaker cover.
- Determine shaft length as per Fig. 5 and cut off as required.
- Set "D" as shown in Fig. 5 and lock shaft with special set screw provided and a commercially available thread locking adhesive per Fig. 1 or Fig. 2 as desired.

- Assemble handle assembly to cover using three 1/4-20 x 7/16" screws provided per Fig. 1 or Fig. 2 as desired.
- 6. Shaft may be used as a center punch to locate hole in cover. Follow instructions under Fig. 3.

Table 1. Use Only for Handle Position Shown in Fig. 1.

B (Fig. 2A)	A* (Fig. 1)	C (Fig. 2B)	A* (Fig. 1)
10 (254.00) to more	1.750 (44.45)	10 (254.00) to more	1.750 (44.45)
8 (203.20) to 10 (254.00)	1.718 (43.64)	8 (203.20) to 10 (254.00)	1.781 (45.24)
7 (177.80) to 8 (203.20)	1.687 (42.85)	7 (177.80) to 8 (203.20)	1.812 (46.02)
6 (152.40) to 7 (177.80)	1.656 (42.06)	6 (152.40) to 7 (177.80)	1.843 (46.81)
5 (127.00) to 6 (152.40)	1.625 (41.28)	5 (127.00) to 6 (152.40)	1.875 (47.63)

Variations are given to allow easier engagement of the shaft by the handle on cover closing where the hinging produces a difficult engagement angle. Avoid the maximum variations where possible.

7. The interlock defeat feature may be removed from the mechanism by placing the disc in the envelope in the hub so that the screw driver slot is covered in the interlock latch. Remove the cover plate over the interlock latch carefully so that the latch spring is not lost.

Table 2. Use Only for Handle Position Shown in Fig. 2.

B (Fig. 2A)	A* (Fig. 1)	C (Fig. 2B)	A* (Fig. 1)
24 (609.60) to more	1.750 (44.45)	8 (203.20) to more	1.750 (44.45)
18" (457.20) to 24" (609.60)	1.718 (43.64)	6 (152.40) to 8 (203.20)	1.812 (46.02)
12" (304.80) to 18" (457.20)	1.687 (42.85)	5 (127.00) to 6 (152.40)	1.843 (46.81)
8" (203.20) to 12" (304.80)	1.656 (42.06)		
6" (152.40) to 8" (203.20)	1.625 (41.28)		

* Variations are given to allow easier engagement of the shaft by the handle on cover closing where the hinging produces a difficult engagement angle. Avoid the maximum variations where possible.

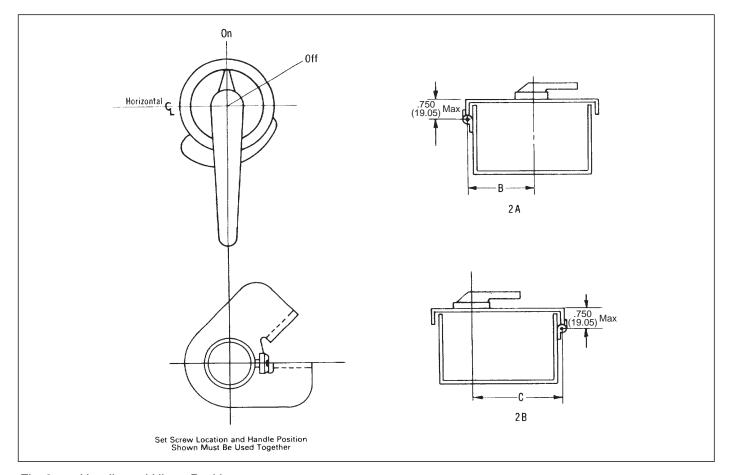
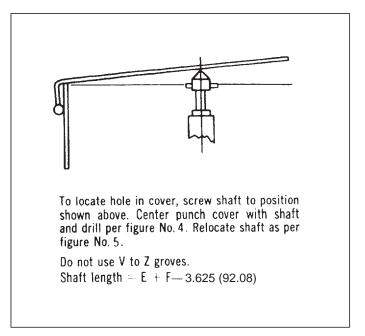


Fig. 2. Handle and Hinge Positions.



Open Cover Reset (155.58).375 R 4.625 (117.48) .500 R 2.203 R (55.96)Off .344 -.625 (15.88) (8.74)Tripped .375 .438 R (11.13) (9.53)0n (44.45) .125 R 2.391 Dia. (60.73) (3.18).437 (11.10) (39.67)906 (23.01) .312 (7.92) (43.64).709 (18.01)

Fig. 3. Center Punching of Cover Using Shaft.

Fig. 4. Operating Handle - Outlined Dimensions.

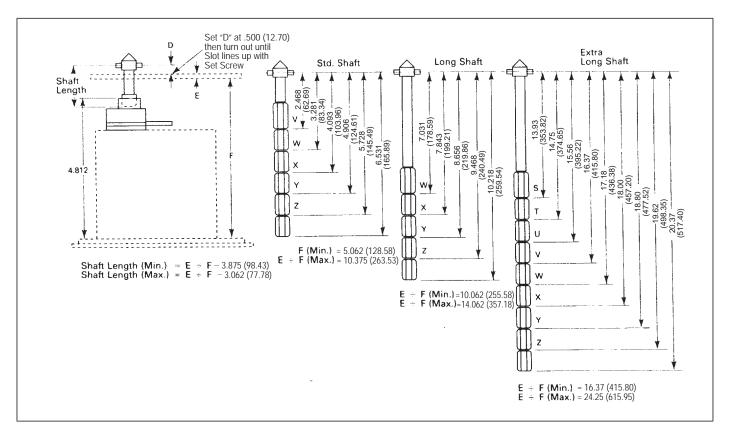


Fig. 5. Determining Shaft Length.

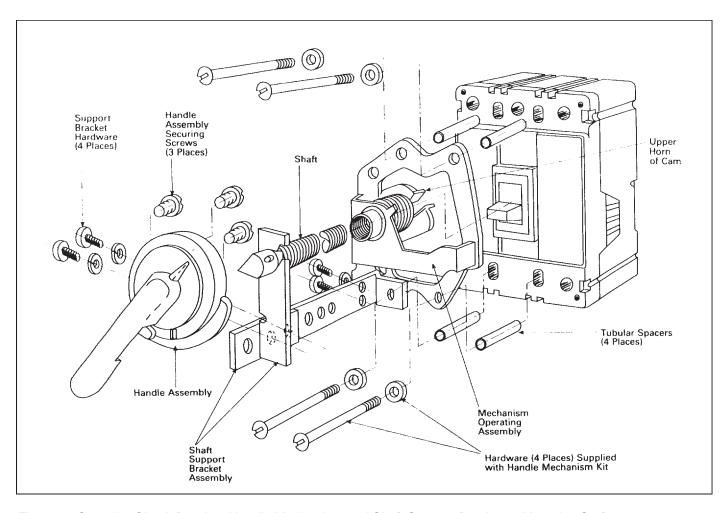


Fig. 6. Securing Circuit Breaker, Handle Mechanism and Shaft Support Bracket to Mounting Surface.

Instruction Leaflet IL13698H Effective August 2012

Instructions for Vari-Depth Operating Mechanisms for Types EB, EHB, FB, and F-Frame Series C Circuit Breakers, and Type HMCP (Sizes 0-4) Motor Circuit Protectors

Notes:

Instructions for Vari-Depth Operating Mechanisms for Types EB, EHB, FB, and F-Frame Series C Circuit Breakers, and Type HMCP (Sizes 0-4) Motor Circuit Protectors

Instruction Leaflet IL13698H
Effective August 2012

Notes:

Instruction Leaflet IL13698H Effective August 2012

Instructions for Vari-Depth Operating Mechanisms for Types EB, EHB, FB, and F-Frame Series C Circuit Breakers, and Type HMCP (Sizes 0-4) Motor Circuit Protectors

The instructions for installation, testing, maintenance, or repair herein are provided for the use of the product in general commercial applications and may not be appropriate for use in nuclear applications. Additional instructions may be available upon specific request to replace, amend, or supplement these instructions to qualify them for use with the product in safety-related applications in a nuclear facility.

This Instruction Booklet is published solely for information purposes and should not be considered all-inclusive. If further information is required, you should consult an authorized Eaton sales representative.

The sale of the product shown in this literature is subject to the terms and conditions outlined in appropriate Eaton selling policies or other contractual agreement between the parties. This literature is not intended to and does not enlarge or add to any such contract. The sole source governing the rights and remedies of any purchaser of this equipment is the contract between the purchaser and Eaton.

NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, OR WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE, ARE MADE REGARDING THE INFORMATION, RECOMMENDATIONS, AND DESCRIPTIONS CONTAINED HEREIN.

In no event will Eaton be responsible to the purchaser or user in contract, in tort (including negligence), strict liability or otherwise for any special, indirect, incidental or consequential damage or loss whatsoever, including but not limited to damage or loss of use of equipment, plant or power system, cost of capital, loss of power, additional expenses in the use of existing power facilities, or claims against the purchaser or user by its customers resulting from the use of the information, recommendations and description contained herein

Eaton Corporation

Electrical Sector 1111 Superior Ave. Cleveland, OH 44114 United States 877-ETN-CARE (877-386-2273) Eaton.com

© 2012 Eaton Corporation All Rights Reserved Printed in USA Publication No. IL13698H / TBG000977 Part No. 6608C48H01 August 2012

