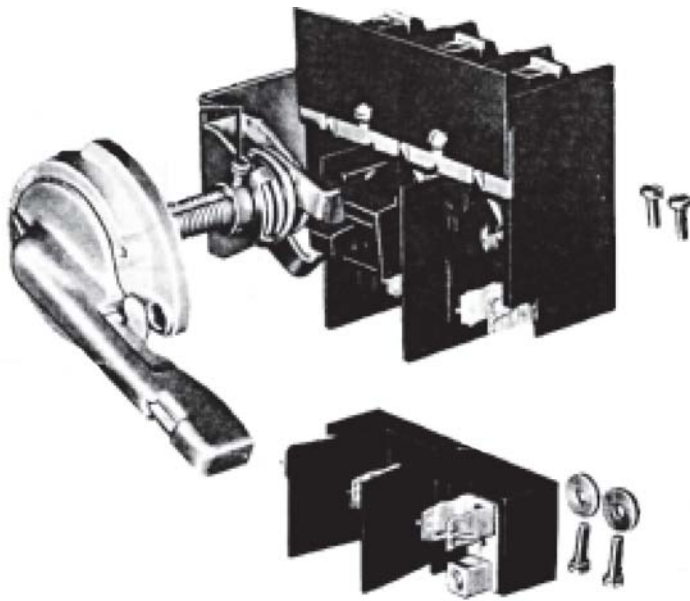


# Instructions for Vari-Depth Operating Mechanism for 30, 60, and 100 Ampere Type DS Switches



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*Powering Business Worldwide*



## **WARNING**

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

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

The recommendations and information contained herein are based on Eaton experience and judgment, 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.

This handle mechanism is designed to provide a convenient means of externally operating the 30, 60 or 100 amp, Type DS disconnect switch when installed in an enclosure, and is easily mounted in enclosures of various depths. Complete mounting hardware is furnished. Operating handle and shaft are supplied as separate items.

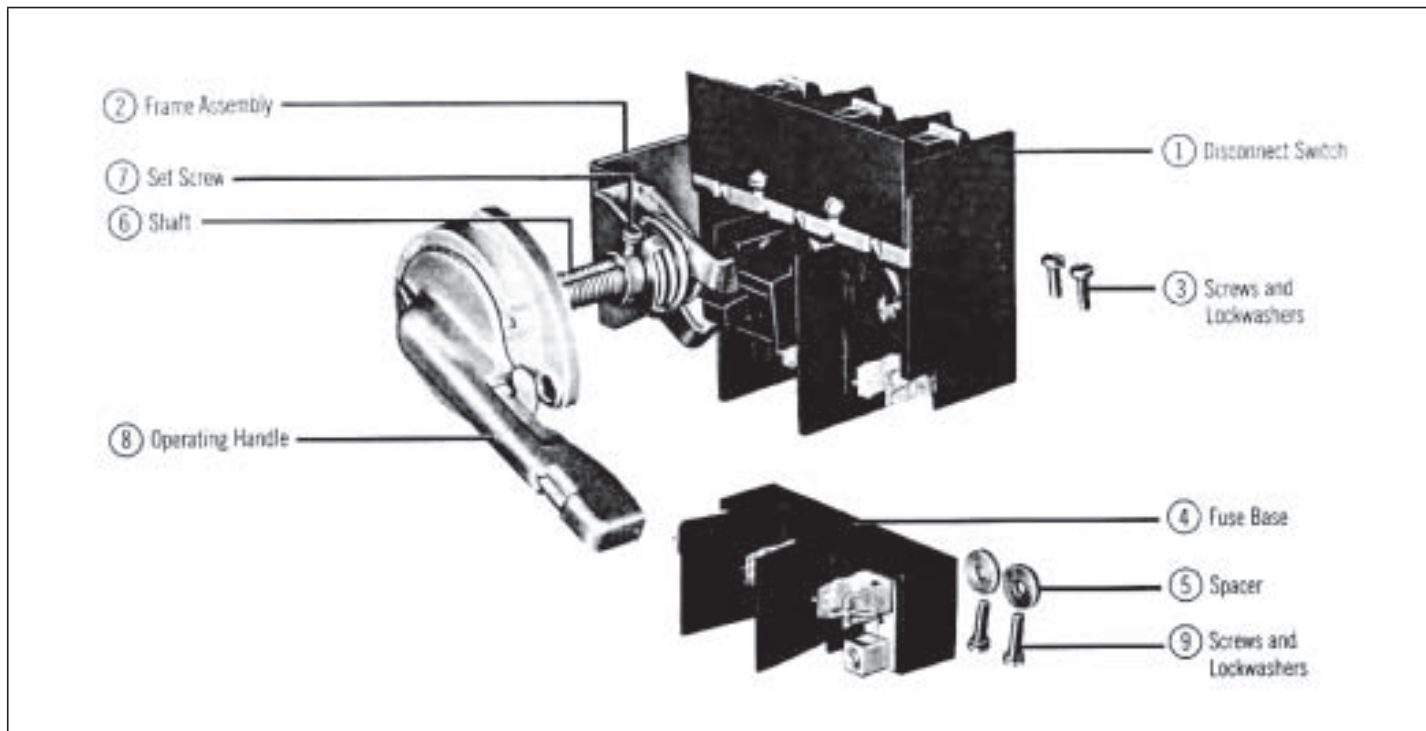


Fig. 1. Typical Installation and Identification of Parts.

## INSTALLATION

1. Mount disconnect switch (1) and frame assembly (2) in enclosure using screws and lock washers (3) from kit. See Figure 1. To reach disconnect switch mounting hole located under frame, insert screw driver through threaded opening as shown in Figure 2. See Figures 5 and 6 for drilling and location of holes.
2. If using a fusible switch, also mount the fuse base (4) and spacers (5), with hardware (9) from kit.
3. Determine correct shaft length and cut off as required. See Figures 7 and 9.

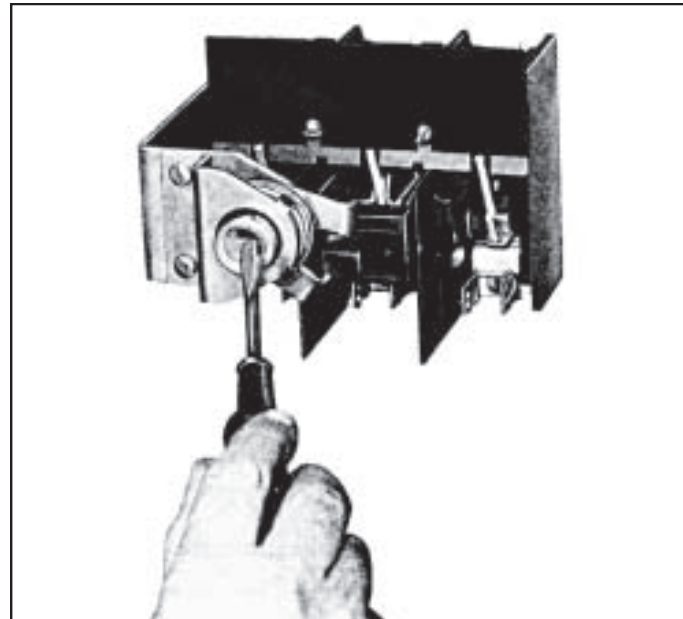


Fig. 2. Special Switch Mounting.

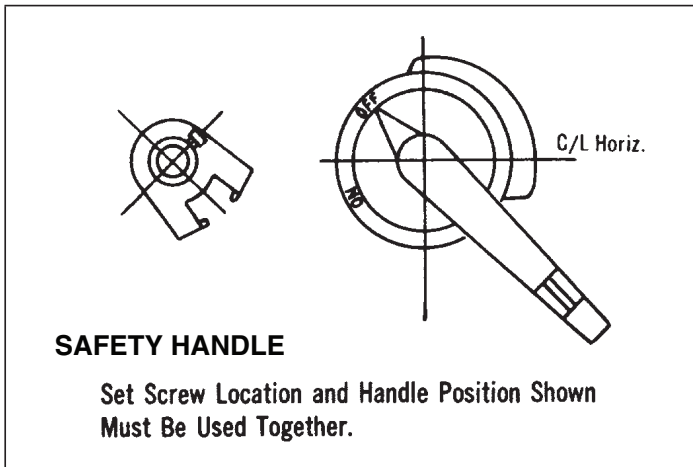


Fig. 3. Horizontal Mounting.

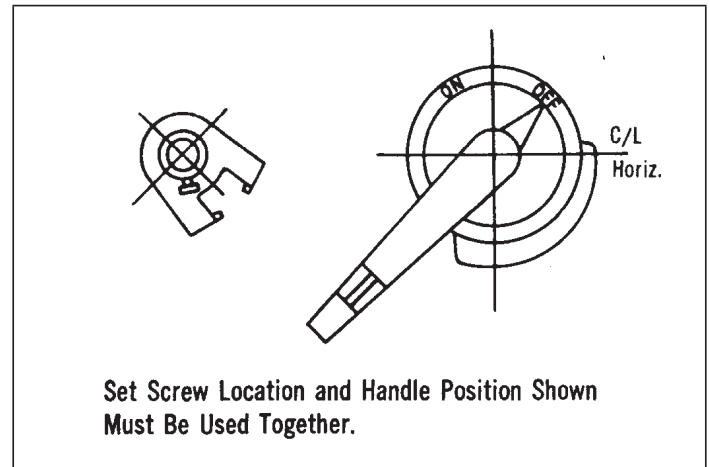


Fig. 4. Vertical Mounting.

**Table 1. Use Only For Handle Pos. Fig. 3.**

B	A $\Delta$	C	A $\Delta$
10" (254.00 mm) or more	2 11/32 (59.53)	10" (254.00 mm) or more	2 11/32 (59.53)
8" (203.20 mm) to 10" (254 mm)	2 5/16 (58.74)	8" (203.20 mm) to 10" (254 mm)	2 3/8 (60.33)
7" (177.80 mm) to 8" (203.20 mm)	2 9/32 (57.94)	7" (177.80 mm) to 8" (203.20 mm)	2 13/32 (61.12)
6" (152.40 mm) to 7" (177.80 mm)	2 1/4 (57.15)	6" (152.40 mm) to 7" (177.80 mm)	2 7/16 (61.91)
5" (127.00 mm) to 6" (152.40 mm)	2 7/32 (56.36)	5" (152.40 mm) to 6" (152.40 mm)	2 15/32 (62.71)

**Table 2. Use Only For Handle Pos. Fig. 4.**

B	A $\Delta$	C	A $\Delta$
24" (609.60 mm) or more	2 11/32 (59.53)	8" (203.20 mm) or more	2 11/32 (59.53)
18" (457.20 mm) to 24" (609.60 mm)	2 5/16 (58.74)	6" (152.40 mm) to 8" (203.20 mm)	2 13/32 (61.12)
12" (304.80 mm) to 18" (457.20 mm)	2 9/32 (57.94)	5" (127.00 mm) to 6" (152.40 mm)	2 7/16 (61.91)
8" (203.20 mm) to 12" (304.80 mm)	2 1/4 (57.15)		
6" (152.40 mm) to 8" (203.20 mm)	2 7/32 (56.36)		

Note  $\Delta$  : Variations on "A" Dim. 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.

Note: For Flush Hinging Where This Dim. = 0 Reduce Variations On "A" Dim. In Tables 1 And 2 By One Half

Fig. 5. Cabinet Drilling Instructions.

4. Determine vertical or horizontal mounting of operating handle. Set "AD" as shown in Figure 9 and lock shaft (6) with set screw (7) and a commercially available thread locking adhesive per Figures 3 or 4.
5. Assemble operating handle assembly (8) to cover using three 1/4-20 X 7/16 screws provided per Figures 3 or 4, as desired.
6. Shaft may be used as a center punch to locate hole in cover. Follow instructions in Figure 7.
7. The interlock defeat feature may be removed from the mechanism by placing the special disc found in the kit 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.

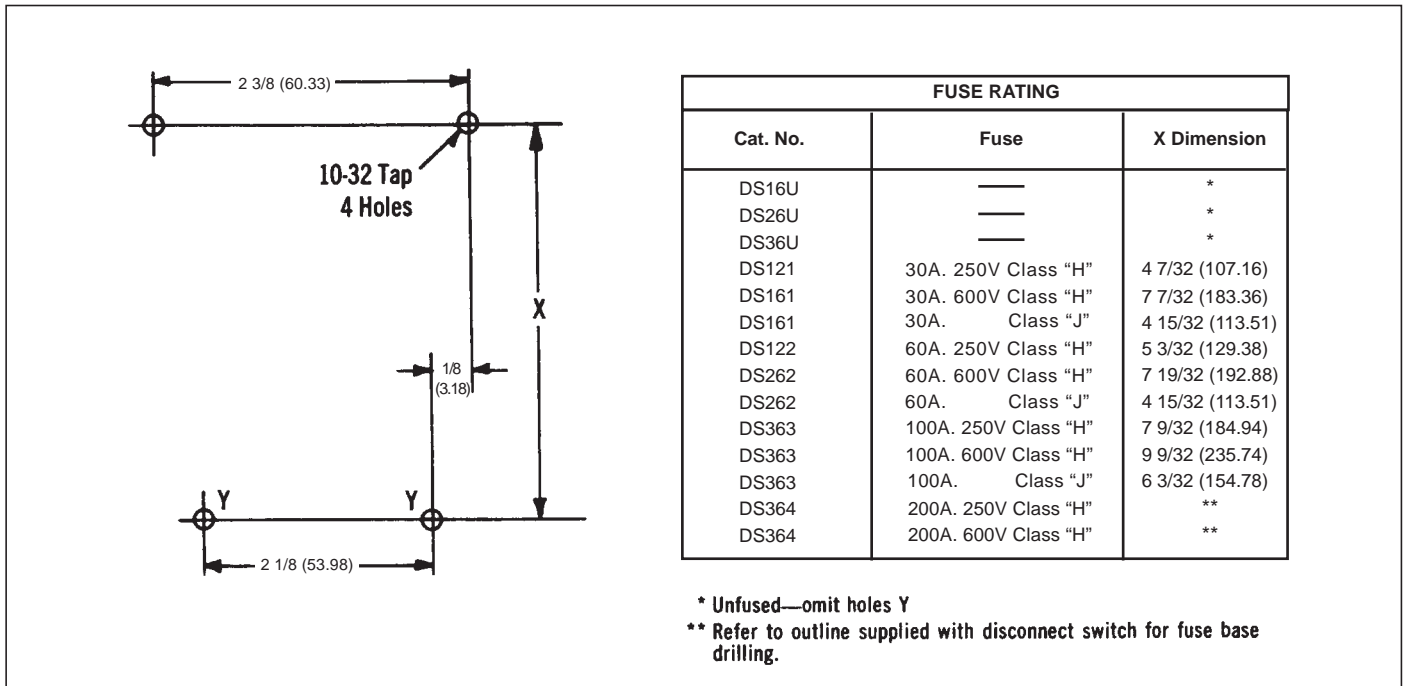


Fig. 6. Disconnect Switch Location.

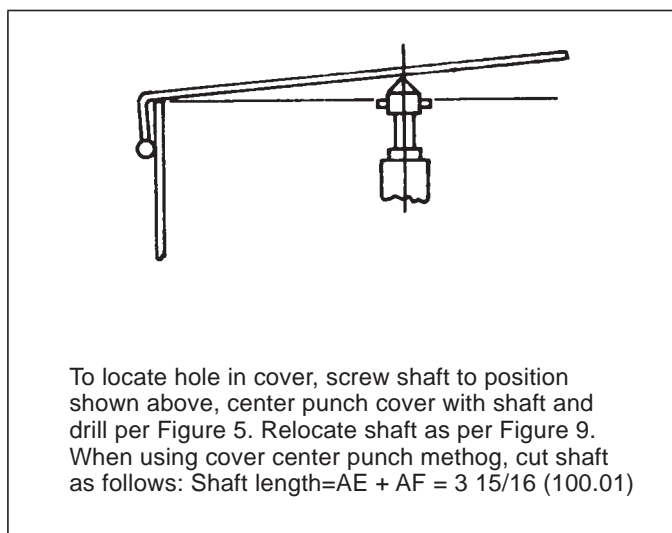


Fig. 7. Center Punching Cover Using Shaft.

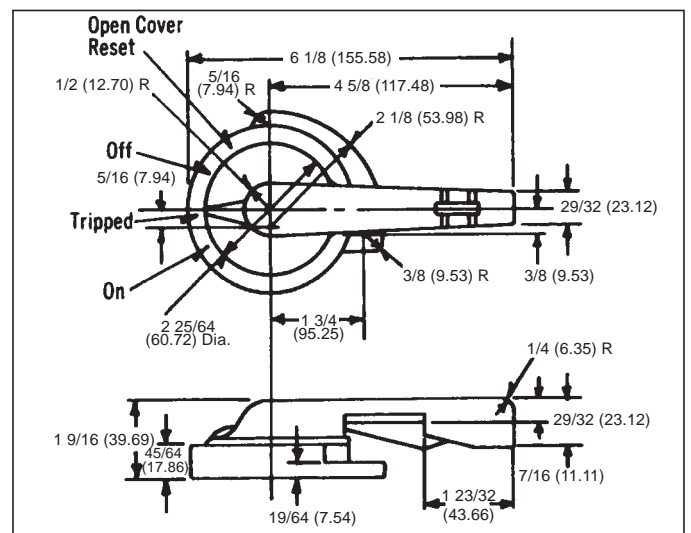


Fig. 8. Operating Handle Dimensions.

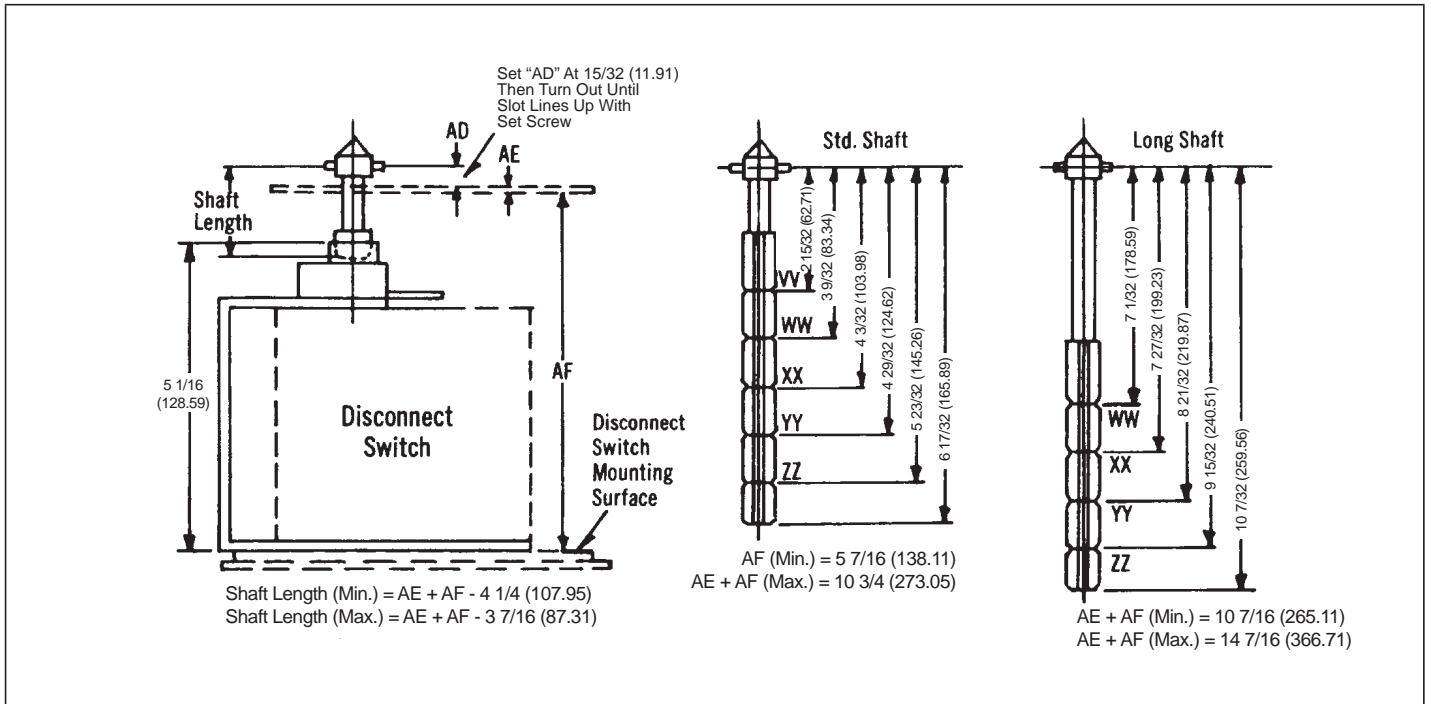


Fig. 9. Determining Shaft Length.

**Notes:**

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

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