

CLASS 9422, TYPE TF 1 and TF 2 VARIABLE DEPTH FLANGE OPERATED 200 AMPERE DISCONNECT SWITCH For Right or Left Hand Operation

GENERAL INFORMATION

The Type TF 1 and TF 2 kits contain a 200 ampere Disconnect Switch and a variable Depth operating mechanism.

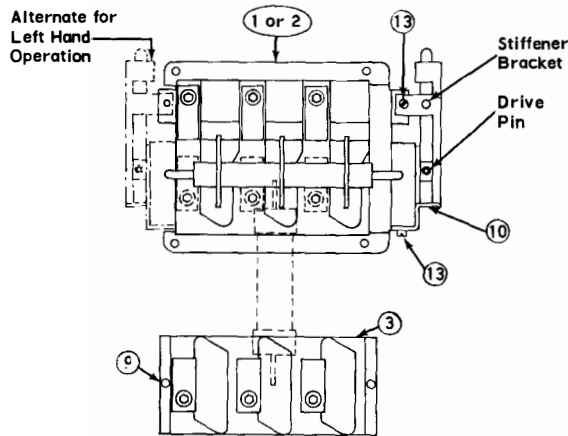


Figure 1

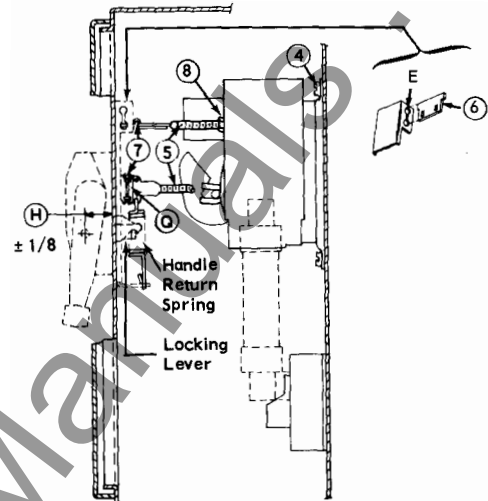


Figure 2

INSTALLATION:

- Determine right or left hand mounting. Operating mechanism is factory assembled for right hand operation. See conversion instructions for left hand operation on back.
- Cut (1) rod assembly, item 5, for operating rod to length $(L = D - 3\frac{1}{8})$. See Fig. 5 for D dimension.) Turn drive pin so correct stamping shows above tapped hole, either R.H. (right hand) or L.H. (left hand), to correspond with side on which operating mechanism is mounted and screw rod in TEN full turns. See Fig. 1.
- Cut (1) rod assembly, item 5, for stiffener rod to length $(L = D - T - 5\frac{5}{16})$. See Fig. 5 for D and T dimensions.)
- Locate vertical center line of operating handle from Instruction Sheet 30072-303-10, Fig. 2.
- Mount Disconnect Switch Assembly using (4) 5/16-18 x 1/2 screws, item 4. See Fig. 5 and 6 for drilling and location of holes.
- Install fuse base assemblies, item 3, (if supplied) with (2) ea. 1/4-20 x 1/2 screw, item 9.
- Install handle per Instruction Sheet 30072-303-10.

- Place nut, item 8, on stiffener rod and screw rod into stiffener bracket.
- Insert stiffener coupling, item 6, thru side of handle stiffener bracket at point E, (See Fig. 2) and connect stiffener rod, item 5, to stiffener coupling with cotter pin, item 7.
- Tighten nut, item 8, and bend cotter pin on stiffener rod.

ADJUSTMENT:

- Place operating handle in ON position (OFF position for left hand) and connect rod to handle linkage with cotter pin, item 7, at point Q (See Fig. 2). Do not bend cotter pin.
- Test handle for approximate equal free play by measuring distance H from center of lock-on hole in handle to handle mounting surface in both ON and OFF positions. NOTE: Before checking OFF position for free play depress locking lever. Increase H dimension in OFF position by turning operating rod in. Decrease by turning out.
- When adjustment is attained, bend cotter pin and attach handle return spring from Operating Handle Kit (See Fig. 2 and Instruction Sheet 30072-303-10, Fig. 4).

REPLACEMENT PARTS LIST

I T E M	DESCRIPTION	PART NUMBER	QUANTITY		I T E M	DESCRIPTION	PART NUMBER	QUANTITY	
			TYPE					TYPE	
			TF 1	TF 2				TF 1	TF 2
1	Disc. Sw. Unfused	31055-367-50	1	-	9	Screw Assembly 1/4-20 x 1/2	21911-20160	-	2
2	Disc. Sw. Fusible	31055-378-50	-	1	10	Disconnect Switch Operating Mechanism Including Item 11, 12, and 14	31055-141-51	1	1
3	Fuse Base (If Supplied)	31055-363-50	-	1	11	E Ring	29902-03210	1	1
4	Screw Assembly 5/16-18 x 1/2	21916-22160	4	4	12	E Ring	29909-02410	1	1
5	Rod Assembly	31055-162-50	2	2	13	Screw Assembly 1/4-20 x 3/8	21911-20120	4	4
6	Stiffener Coupling	31055-168-01	1	1	14	Operating Cam	31055-357-01	1	1
7	Cotter Pin 1/8 x 1 1/4	24201-08400	2	2					
8	Nut 3/8-16	23002-00240	1	1					

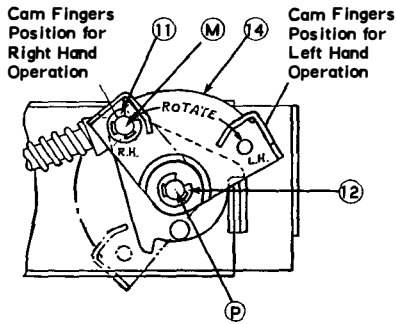


Figure 4
Conversion from Right to Left Hand Operation

1. Remove operating mechanism from Disconnect Switch base plate. Save screws.
2. Remove E rings from points P and M.
3. Reposition cam, item 14, so that the drive pin passes through hole marked L.H.
4. Reassemble E Rings at points P and M.
5. Move switch bail arm to fully OFF position.
6. Assemble operating mechanism to left hand side of Disconnect Switch.



Figure 3

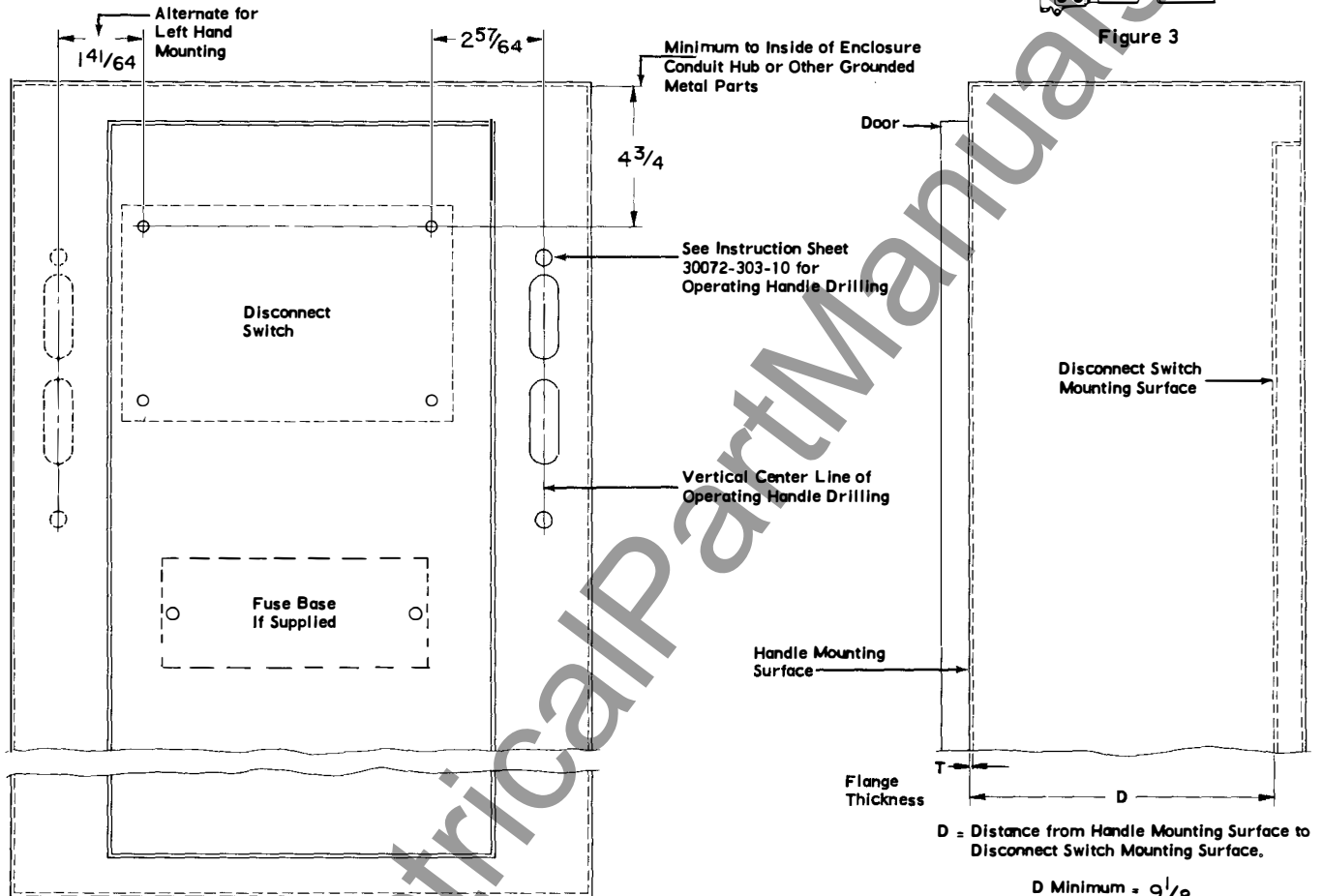


Figure 5
Disconnect Switch Location

D = Distance from Handle Mounting Surface to Disconnect Switch Mounting Surface.

D Minimum = $9\frac{1}{8}$

D Maximum = $19\frac{1}{4}$

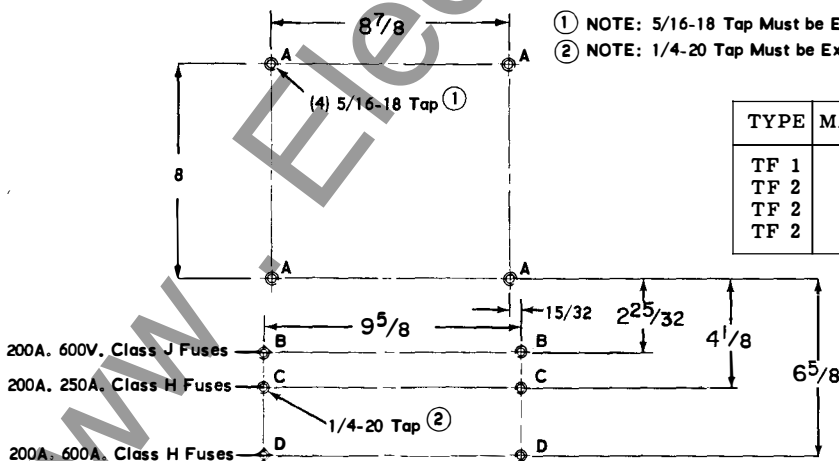


Figure 6

Drilling Dimensions for 200 Ampere Disconnect Switch and Fuse Base.

① NOTE: 5/16-18 Tap Must be Extruded in 11 Gauge and Thinner.

② NOTE: 1/4-20 Tap Must be Extruded in 13 Gauge and Thinner.

FUSE RATINGS

TYPE	MAX. VOLTAGE	FUSE TYPE	DRILLING
TF 1	200A. 600V.	UNFUSED	(A) Holes Only
TF 2	200A. 250V.	CLASS H	(A) and (C) Holes Only
TF 2	200A. 600V.	CLASS H	(A) and (D) Holes Only
TF 2	200A. 600V.	CLASS J	(A) and (B) Holes Only

SQUARE D®
CLASS 9422, TYPE TF 3
VARIABLE DEPTH
FLANGE OPERATED 200 AMPERE DISCONNECT SWITCH
 For Right or Left Hand Operation

Instruction Sheet
 30072-009-22
 March, 1974

GENERAL INFORMATION

The Type TF 3 kit contains a 200 amp Fusible Disconnect Switch which accept 201A. - 400A. 600V Class J fuses and a variable depth operating mechanism.

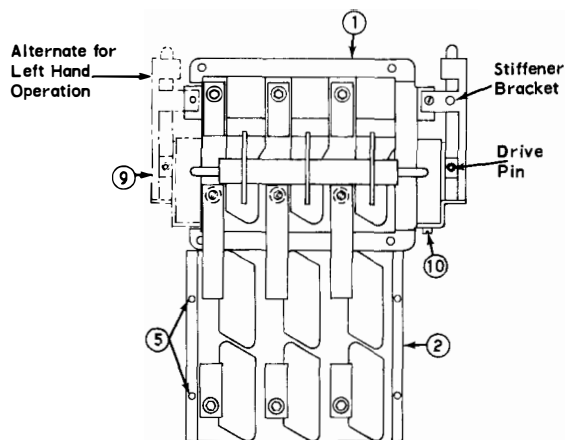


Figure 1

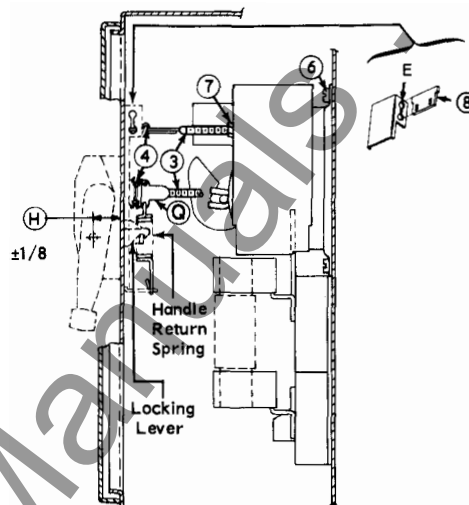


Figure 2

INSTALLATION:

1. Determine right or left hand mounting. Operating mechanism is factory assembled for right hand operation. See conversion instructions for left hand operation on back.
2. Cut (1) rod assembly, item 3, for operating rod to length ($L = D - 3\frac{7}{8}$. See Fig. 5 for D dimension.) Turn drive pin so correct stamping shows above tapped hole, either R.H. (right hand) or L.H. (left hand), to correspond with side on which operating mechanism is mounted and screw rod in TEN full turns. See Fig. 1.
3. Cut (1) rod assembly, item 3, for stiffener rod to length ($L = D - T - 5\frac{5}{16}$. See Fig. 5 for D and T dimensions.)
4. Locate vertical center line of operating handle from Instruction Sheet 30072-303-10, Fig. 2.
5. Mount Disconnect Switch Assembly using (4) 5/16-18 x 1/2 screws, item 6. See Fig. 5 and 6 for drilling and location of holes.
6. Install fuse base assemblies, item 2, (if supplied) with (4) ea. 1/4-20 x 1/2 screw, item 5,
7. Install handle per Instruction Sheet 30072-303-10.

8. Place nut, item 7, on stiffener rod and screw rod into stiffener bracket.
9. Insert stiffener coupling, item 8, thru side of handle stiffener bracket at point E, (See Fig. 2) and connect stiffener rod, item 5, to stiffener coupling with cotter pin, item 4,
10. Tighten nut, item 7, and bend cotter pin on stiffener rod.

ADJUSTMENT:

- A. Place operating handle on ON position (OFF position for left hand). Connect operating rod to handle linkage with cotter pin, item 4, at point Q. See Fig. 2. Do not bend cotter pin.
- B. Test handle for approximate equal free play in both ON and OFF positions by measuring distance H from center of lock-on hole in handle to handle mounting surface. NOTE: Before checking OFF position for free play, depress locking lever. Increase H dimension in OFF position by turning operating rod in. Decrease by turning out.
- C. When adjustment is attained, bend cotter pin and attach handle return spring from Operating Handle Kit. See Fig. 2 and Instruction Sheet 30072-303-10, Fig. 4.

REPLACEMENT PARTS LIST

ITEM	DESCRIPTION	PART NUMBER	QTY.
1	200A. Disconnect Switch Assembly	31055-367-50	1
2	Fuse Base Assembly	31055-362-50	1
3	Rod Assembly	31055-162-50	2
4	Cotter Pin 1/8 x 1 1/4	24201-08400	2
5	Screw Assembly 1/4-20 x 1/2	21911-20160	4
6	Screw Assembly 5/16-18 x 1/2	21916-22160	4
7	Nut 3/8-16	23002-00240	1
8	Stiffener Coupling	31055-168-01	1
9	Disconnect Switch Operating Mechanism (incl. it. 10, 11, 12 and 13)	31055-141-51	1
10	Screw Assembly 1/4-20 x 3/8	21911-20120	4
11	E Ring	29909-03210	1
12	E Ring	29909-02410	1
13	Operating Cam	31055-357-01	1

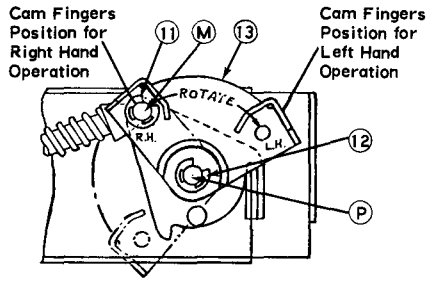


Figure 4
Conversion from Right to Left Hand Operation

1. Remove operating mechanism from Disconnect Switch base plate. Save screws.
2. Remove E rings from points P and M.
3. Reposition cam, item 14, so that the drive pin passes through hole marked L.H.
4. Reassemble E Rings at points P and M.
5. Move switch bail arm to fully OFF position.
6. Assemble operating mechanism to left hand side of Disconnect Switch.

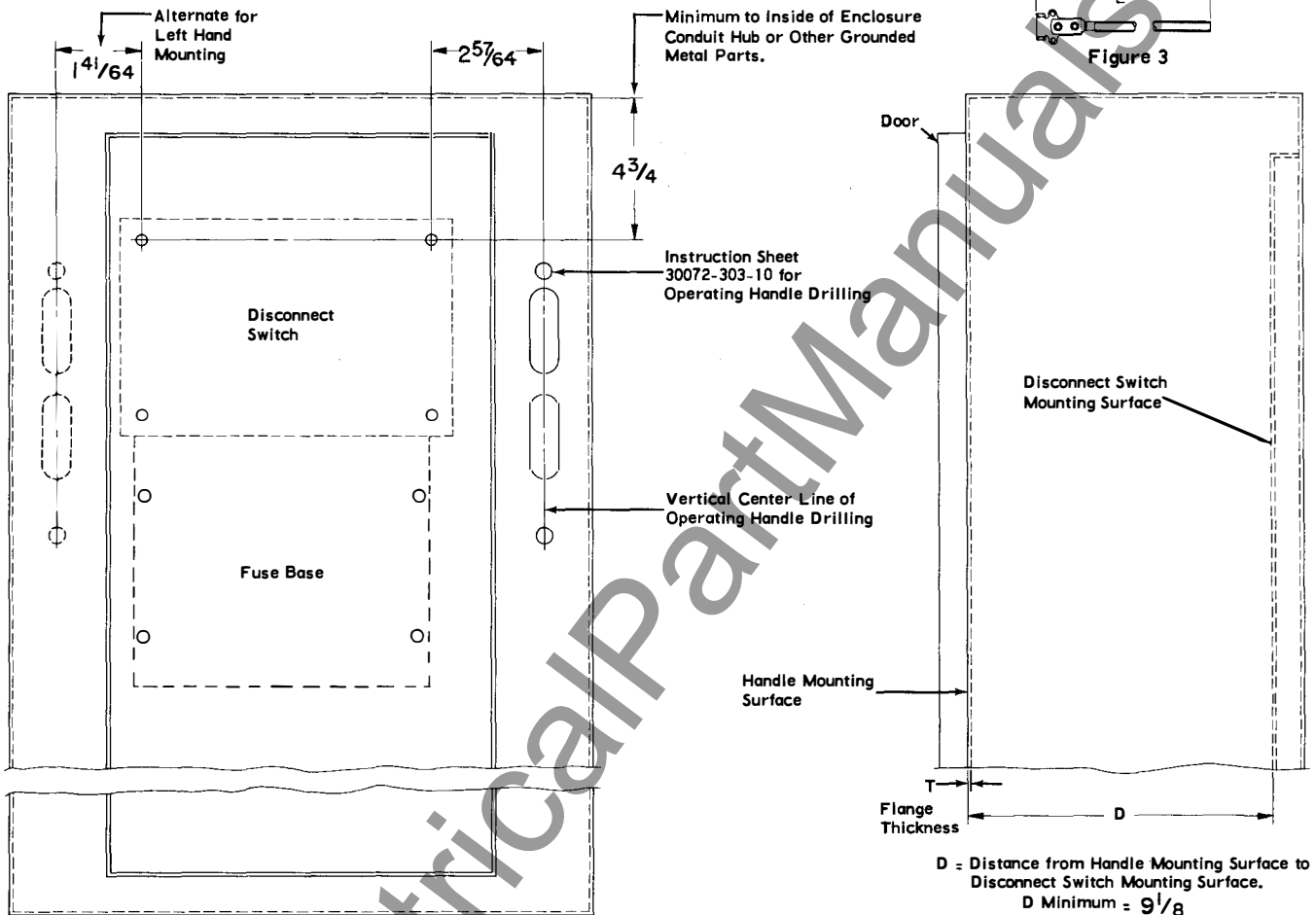


Figure 5
Disconnect Switch Location

D = Distance from Handle Mounting Surface to Disconnect Switch Mounting Surface.
D Minimum = $9\frac{1}{8}$
D Maximum = $19\frac{1}{4}$

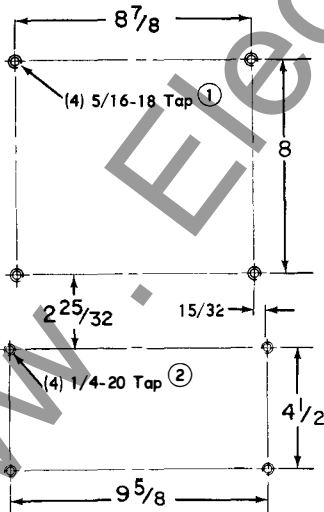


Figure 6

Drilling Dimensions for 200 Ampere Disconnect Switch and Fuse Base.

- ① NOTE: 5/16-18 Tap Must be Extruded in 11 Gauge and Thinner.
- ② NOTE: 1/4-20 Tap Must be Extruded in 13 Gauge and Thinner.