

SQUARE D®
CLASS 9422, TYPE TE 1 and TE 2
VARIABLE DEPTH
FLANGE OPERATED 100 AMPERE DISCONNECT SWITCH
For Right or Left Hand Operation

Instruction Sheet
30072-009-59
July, 1976

GENERAL INFORMATION

The Type TE 1 and TE 2 kits contain a 100 ampere Disconnect Switch and a variable depth operating mechanism.

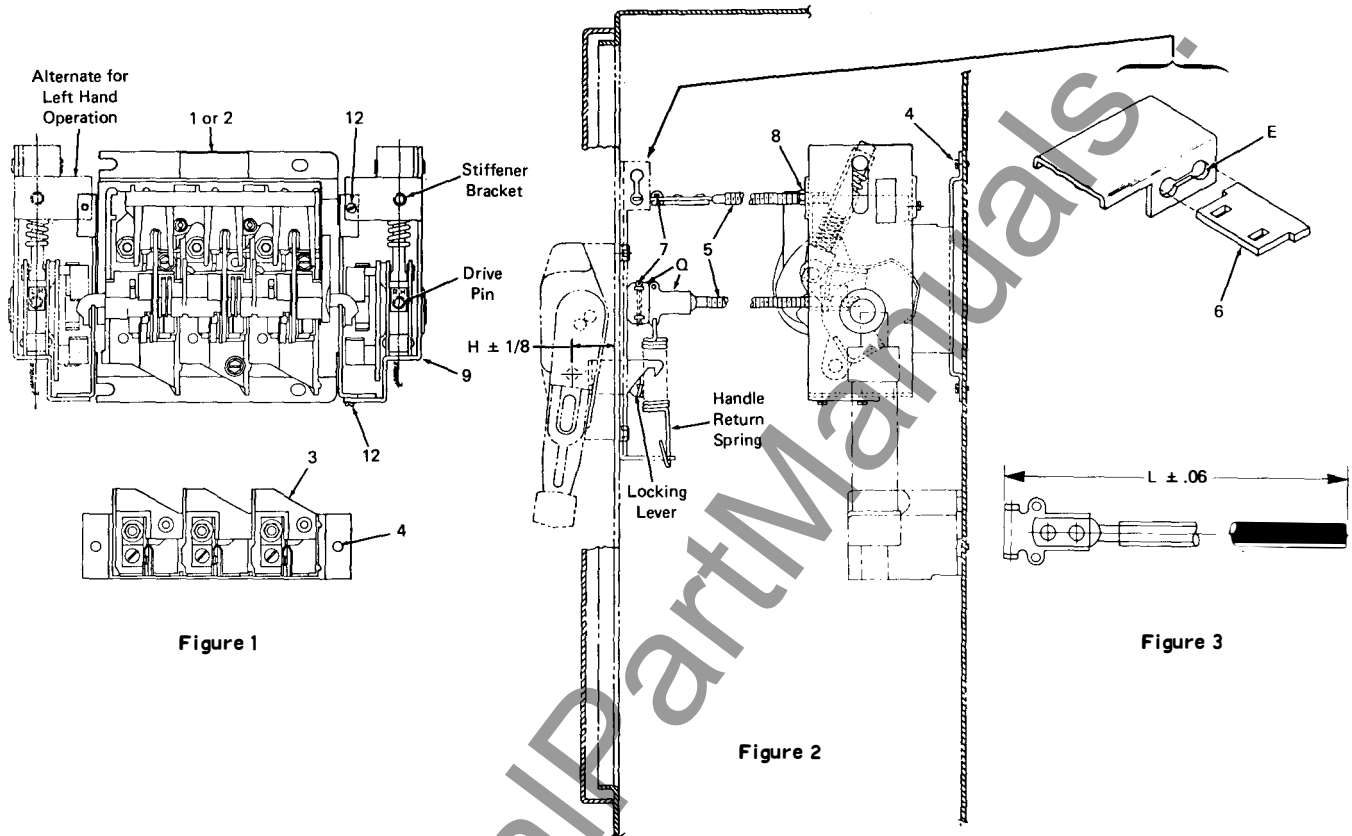


Figure 1

Figure 3

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. If a Class 9422 Type D1 or D2 dual or remote adapter kit used with this switch, review its instruction sheet before following these instructions.
- Cut (1) rod assembly, item 5, to length for operating rod. See Fig. 3 ($L = D - 3 - 3/4$). See Fig. 5 for D dimension. Turn drive pin so correct stamping shows above tapped hole, either RH (Right Hand) or LH (Left Hand), to correspond with side on which operating mechanism is mounted and screw rod in eight full turns. See Fig. 1.
- Cut (1) rod assembly, item 5, to length for stiffener rod ($L = D - T - 5$). See Fig. 5 for D and T dimensions.
- Locate vertical centerline of operating handle from operating handle instruction sheet.
- Mount disconnect switch assembly using (4) 1/4-20 x 3/8 screws, item 4. See Fig. 5 and 6 for drilling and location of holes.
- Install fuse base assembly, item 3, (if supplied) with (2) 1/4-20 x 3/8 screws, item 4.

- Install operating handle per its instruction sheet.
- 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 OFF position (ON 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).

REPLACEMENT PARTS LIST

ITEM	DESCRIPTION	PART NUMBER	QUANTITY		ITEM	DESCRIPTION	PART NUMBER	QUANTITY	
			TYPE					TYPE	
			TE 1	TE 2				TE 1	TE 2
1	Disc. Sw. Unfused	31055-433-50	1	-	10	E Ring	29902-03210	1	1
2	Disc. Sw. Fusible	31055-436-50	-	1	11	E Ring	29909-02410	1	1
3	Fuse Base (If Supplied)	31055-429-50	-	1	12	Screw Assembly 10-24 x 3/8	21911-16120	4	4
4	Screw Assembly, 1/4-20 x 3/8	21916-20120	4	6	13	Operating Cam	31055-419-50	1	1
5	Rod Assembly	31055-162-50	2	2	14	Bracket	31055-448-01	1	1
6	Stiffener Coupling	31055-168-01	1	1	15	Spacer	31055-447-01	1	1
7	Cotter Pin 1/8 x 1-1/4	24201-08400	2	2	16	Spring	30017-277-01	1	1
8	Nut, 3/8-16	23002-00240	1	1	17	Screw #10-32 x 1-3/4	21507-17560	1	1
9	Disconnect Switch Operating	31055-151-51	1	1	18	Washer #10	23601-00160	1	1
	Mechanism Includes Item 10				19	Lock Washer #10	23702-00161	1	1
	11, 13, 14, 15, 16, 17, 18, 19, 20				20	Nut #10-32	23001-00170	1	1

Conversion from Right to Left Hand Operation

1. With switch in "OFF" position, remove operating mechanism from disconnect switch base plate, save screws.
2. Remove nut, item 20, lock washer, item 19, bracket, item 14, screw, item 17, spring, item 16, washer, item 18, and spacer, item 15.
3. Remove "E" rings at "P" and "M."
4. Remove cam, item 13. Replace cam with hole stamped LH over point M.
5. Reassemble "E" rings at points "P" and "M."
6. Reassemble bracket, item 14, spacer, item 15, spring, item 16, screw, item 17, washer, 18, on cam, item 13, and tighten nut, item 20, until screw, item 17, bottoms on spacer, item 15.
7. Move switch ball arm to fully "ON" position.
8. Assemble operating mechanism to left hand side of disconnect switch. See Fig. 1.

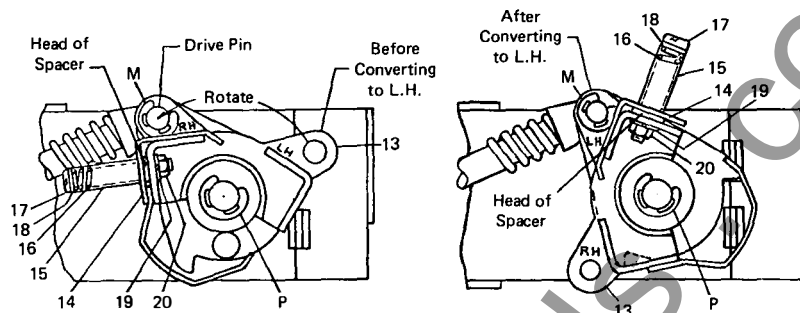


Figure 4

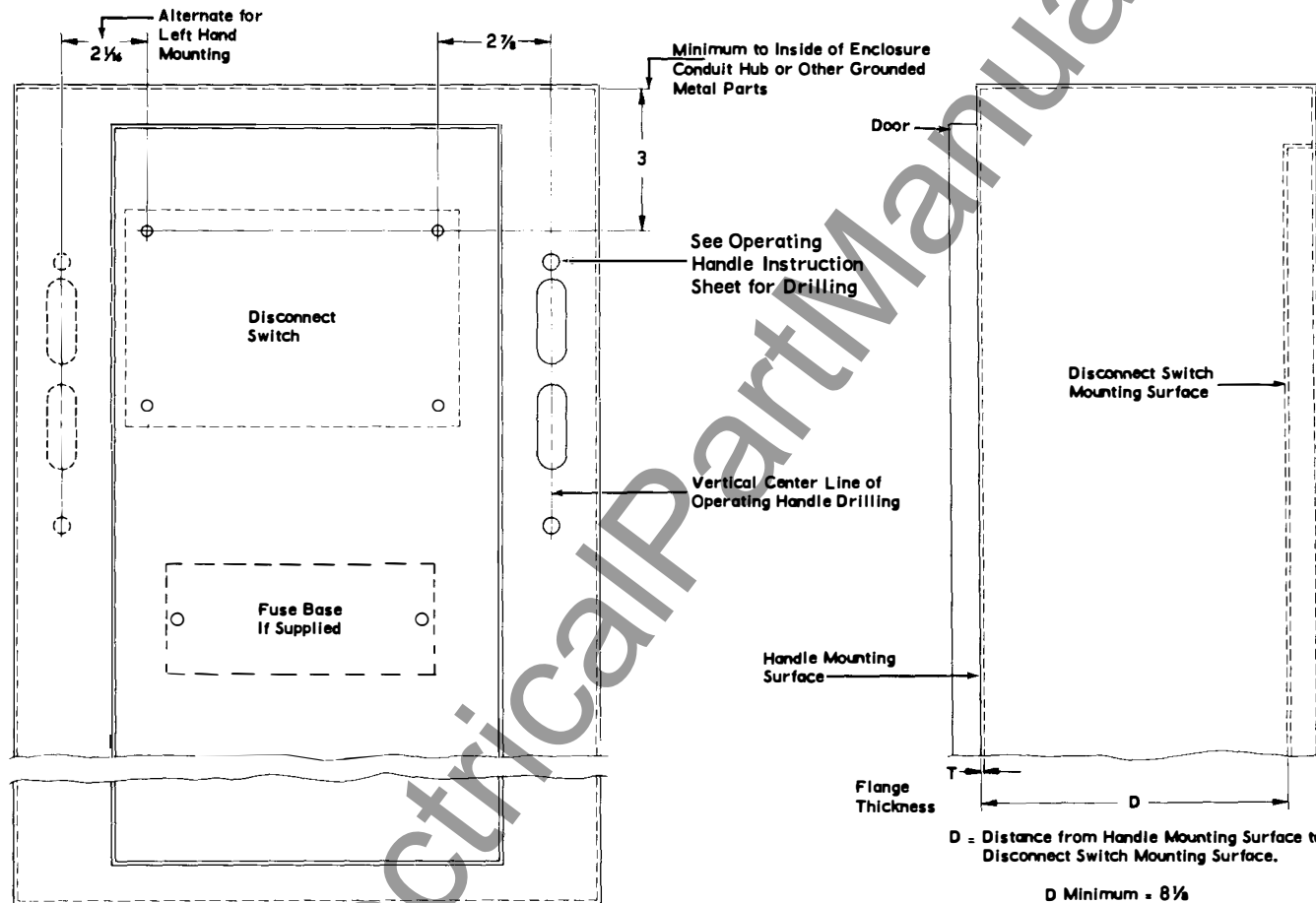


Figure 5
Disconnect Switch Location

D Minimum = 8 1/2
D Maximum = 19 1/4

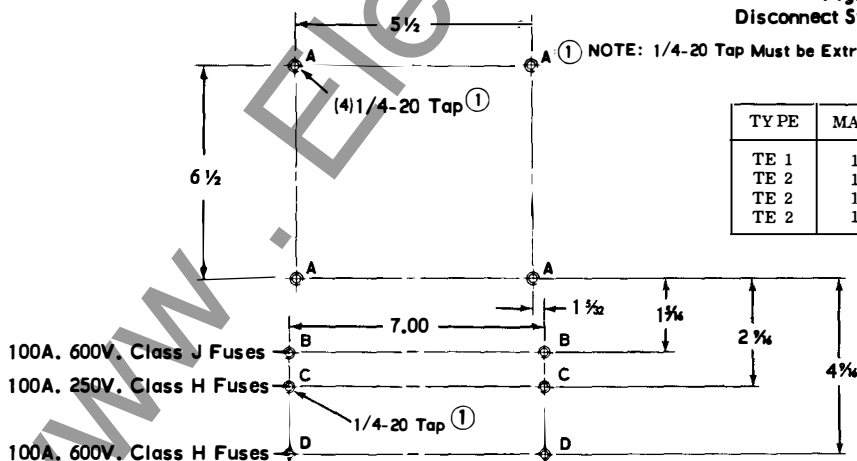


FIGURE 6

Drilling Dimensions for 100 Ampere Disconnect Switch and Fuse Base.

FUSE RATINGS

TYPE	MAX. VOLTAGE	FUSE TYPE	DRILLING
TE 1	100A. 600V.	UNUSED	(A) Holes Only
TE 2	100A. 250V.	CLASS H	(A) and (C) Holes Only
TE 2	100A. 600V.	CLASS H	(A) and (D) Holes Only
TE 2	100A. 600V.	CLASS J	(A) and (B) Holes Only

SQUARE D®
CLASS 9422, TYPE TE 3
VARIABLE DEPTH
FLANGE OPERATED 100 AMPERE DISCONNECT SWITCH
For Right or Left Hand Operation

Instruction Sheet
30072-009-60
July, 1976

GENERAL INFORMATION

The Type TE 3 kit contains a 100 amp Fusible Disconnect Switch which accept 101A, -200A, 600V Class J fuses and a variable depth operating mechanism.

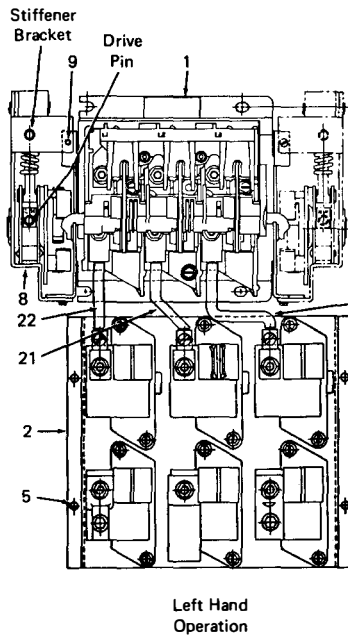
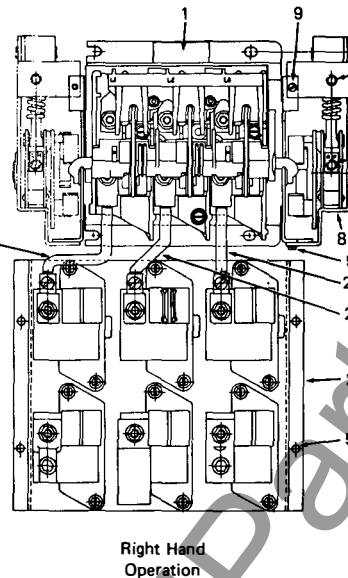


Figure 1



Right Hand Operation

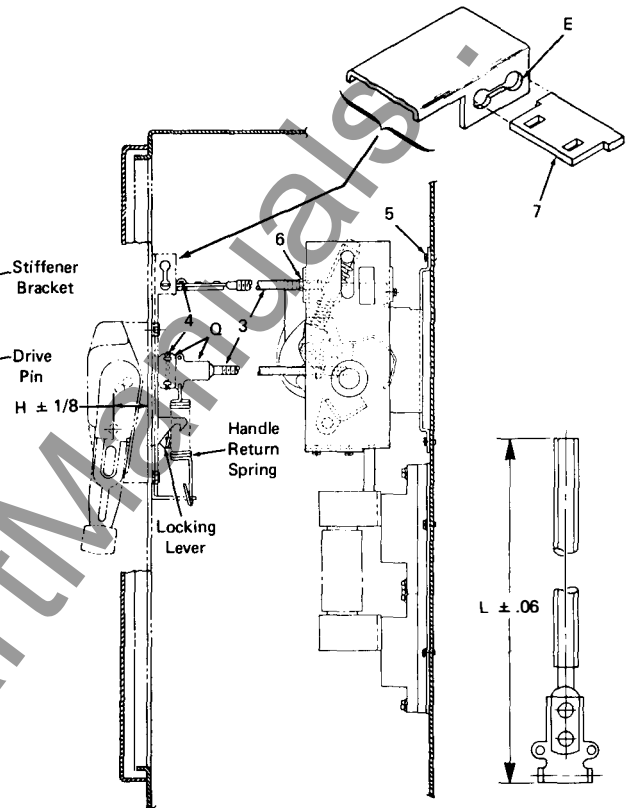


Figure 2

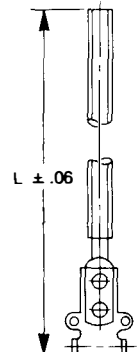


Figure 3

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. If a Class 9422 Type D1 or D2 dual or remote adapter kit is used with this switch, review its instruction sheet before following these instructions.
- Cut (1) rod assembly, item 3, to length for operating rod. See Fig. 3 ($L = D - 3 - 3/4$). See Fig. 5 for D dimension. Turn drive pin so correct stamping shows above tapped hole, either RH (Right Hand) or LH (Left Hand), to correspond with side on which operating mechanism is mounted and screw rod in eight full turns. See Fig. 1.
- Cut (1) rod assembly, item 3, to length for stiffener rod ($L = D - T - .5$). See Fig. 5 for D and T dimensions.
- Locate vertical centerline of operating handle from operating handle instruction sheet.
- Mount disconnect switch assembly using (4) 1/4-20 x 3/8 screws, item 5. See Fig. 5 and 6 for drilling and location of holes.
- Install fuse base assembly, item 2, with (4) 1/4-20 x 3/8 screws, item 5.

- Install operating handle per its instruction sheet.
- Place nut, item 6, on stiffener rod and screw rod into stiffener bracket.
- Insert stiffener coupling, item 7, 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.
- Tighten nut, item 6, and bend cotter pin on stiffener rod.

ADJUSTMENT:

- Place operating handle on OFF position (ON 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.
- 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.
- When adjustment is attained, bend cotter pin and attach handle return spring from Operating Handle Kit. (See Fig. 2)

REPLACEMENT PARTS LIST

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	ITEM	DESCRIPTION	PART NUMBER	QUANTITY
1	100A. Disconnect Switch Assy. . .	31055-433-50	1	11	E Ring	29909-02410	1
2	Fuse Base Assembly.	31055-428-50	1	12	Operating Cam.	31055-419-50	1
3	Rod Assembly.	31055-162-50	2	13	Bracket	31055-448-01	1
4	Cotter Pin 1/8 x 1-1/4	24201-08400	2	14	Spacer	31055-447-01	1
5	Screw Assembly, 1/4-20 x 3/8 . .	21916-20120	8	15	Spring	30017-277-01	1
6	Nut, 3/8-16	23002-00240	1	16	Screw #10-32 x 1-3/4	21507-17560	1
7	Stiffener Coupling	31055-168-01	1	17	Washer #10	23601-00160	1
8	Disconnect Switch Operating . . .	31055-141-51	1	18	Lock Washer #10	23702-00161	1
	Mechanism (Includes Items 10			19	Nut #10-32	23001-00170	1
	thru 19)			20	Wire Connector	31055-446-01	1
9	Screw Assembly, 10-24 x 3/8 . . .	21911-16121	4	21	Wire Connector	31055-446-02	1
10	E Ring	29909-03210	1	22	Wire Connector	31055-446-03	1

Conversion from Right to Left Hand Operation

1. With switch in "OFF" position, remove operating mechanism from disconnect switch base plate, save screws.
2. Remove nut, item 19, lock washer, item 18, bracket, item 13, screw, item 16, spring, item 15, washer, item 17, and spacer, item 14.
3. Remove "E" rings at "P" and "M."
4. Remove cam, item 12. Replace cam with hole stamped LH over point M.
5. Reassemble "E" rings at points "P" and "M."
6. Reassemble bracket, item 13, spacer, item 14, spring, item 15, screw, item 16, washer, item 17, on cam, item 12, and tighten nut, item 19, until screw, item 16, bottoms on spacer, item 15.
7. Move switch bail arm to fully "ON" position.
8. Assemble operating mechanism to left hand side of disconnect switch. See Fig. 1.

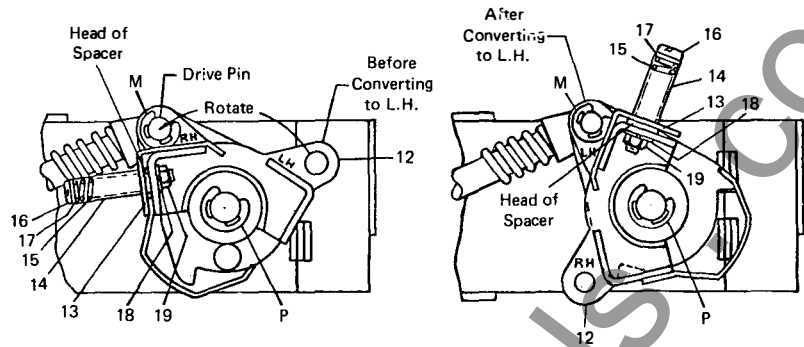


Figure 4

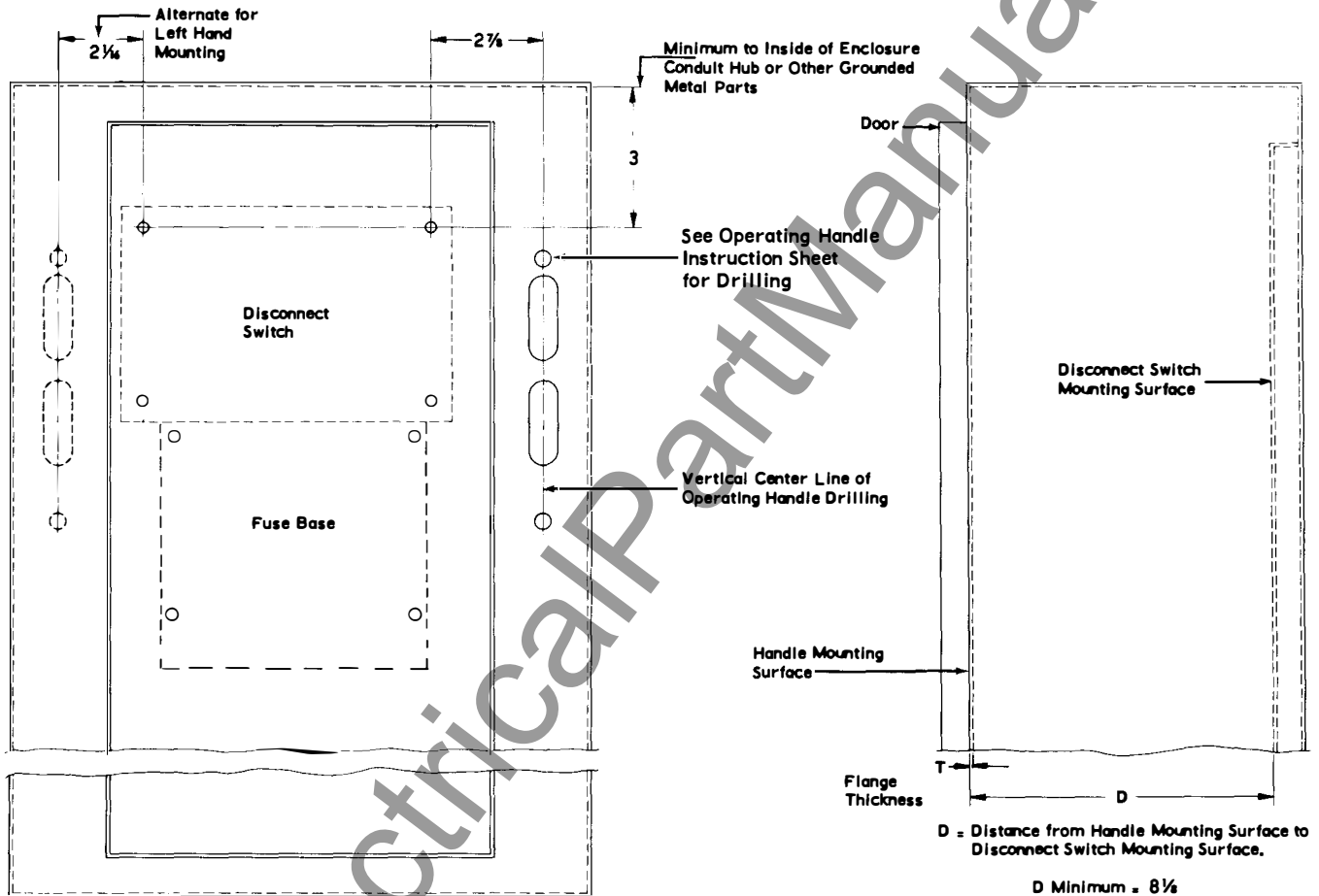
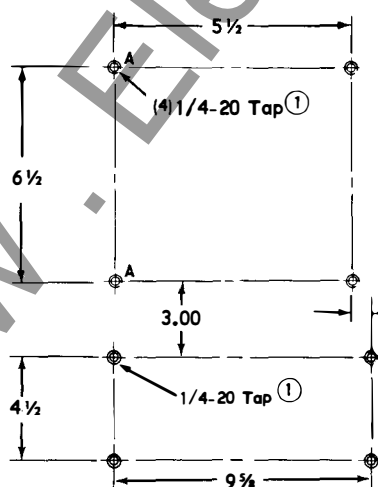


Figure 5
Disconnect Switch Location



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

1 1/2 For Right Hand Operation
3 3/4 For Left Hand Operation

FIGURE 6
Drilling Dimensions for 100 Ampere
Disconnect Switch and Fuse Base.