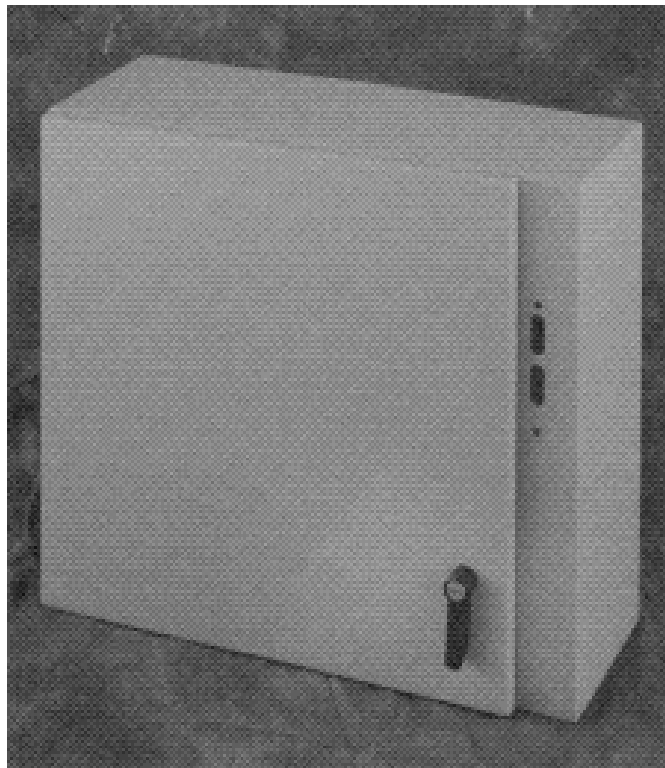


For Variable Depth Disconnect Devices
And For Flexible Cable Disconnect Devices

In Hoffman Bulletin CWY (painted steel)
Or Hoffman Bulletin CWSD (stainless steel)
CONCEPT[®] Wall Mounted Disconnect Enclosures



⚠ WARNING

The functions, fits, and clearances of the installation described hereon are calculated from information supplied by the manufacturers of the equipment to be installed. Be certain to check the function, fits, and clearances of all equipment both before and after installation to assure that it operates properly and safely and meets all applicable codes, standards, and regulations.

In the event the completed installation does not function properly or fails to meet any such codes, standards, or regulations, do not attempt to make alterations or operate the equipment. Report such facts immediately to:

Customer Service Dept.
Hoffman Enclosures Inc.
900 Ehlen Drive
Anoka, Minnesota 55303-7505 U.S.A.
(612) 421-2240

NOTICE

To maintain the environmental rating of this enclosure: install in any opening, only listed or recognized disconnect devices, external mounting feet, or conduit hubs that have the same environmental rating as the enclosure. Install in compliance with the installation instructions of the device.

Installation Instruction Index		
<u>Brand of Disconnect</u>	<u>Type</u>	<u>See Pages</u>
Allen-Bradley 1494V	Variable Depth	4,5
Cutler-Hammer C361/C371	Variable Depth	6,7
General Electric STDA	Variable Depth	8,9
Square D 9422	Variable Depth	10,11
Cutler-Hammer C371 Flex Shaft™	Flexible Cable	12,13
General Electric SCH	Flexible Cable	14,15
Siemens I-T-E Max Flex™	Flexible Cable	16,17
Square D 9422	Flexible Cable	18,19

INSTALLATION STEPS

Step 1 – Drill mounting holes in panel for specific disconnect device being installed. See installation instruction index above for appropriate panel drilling instructions. Additional holes may be required when using fused switches. See disconnect manufacturers instructions.

Step 2 – Install operating handle on enclosure flange in holes provided. Follow disconnect manufacturers instructions.

Step 3 – Install disconnect device on panel. Follow disconnect manufacturers instructions for installation and adjustment.

Step 4 – Hoffman CONCEPT® disconnect enclosures have door hardware already installed on inside of the enclosure door. See figure 2 to install CONCEPT® padlocking door handle on the outside of the door. Install interlock bracket on end of latch rod. See figure 1. Adjust interlock bracket (see figure 1) up or down, if necessary, to ensure that disconnect operating handle can be moved to “ON” position only when door is fully latched. Be certain door cannot be opened with handle in “ON” position (without defeating interlock on disconnect handle).

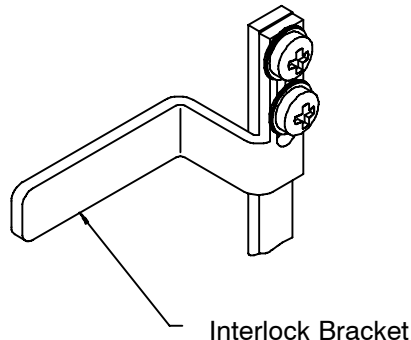


Figure 1

PADLOCKING HANDLE INSTALLATION (handle provided with enclosure)

INSTALLATION STEPS

Step 1 – Remove M6 screw fastening insert to latch assembly.

Step 2 – Remove latch, insert, o-ring, and wave washer from latch housing. Apply superlube (p/n 99411823) to handle and latch in the locations shown.

Step 3 – Assemble handle to latch housing as shown in figure 2.

Step 4 – Re-install M6 screw to handle nose and torque to 38 in-lbs (4.3 Nm).

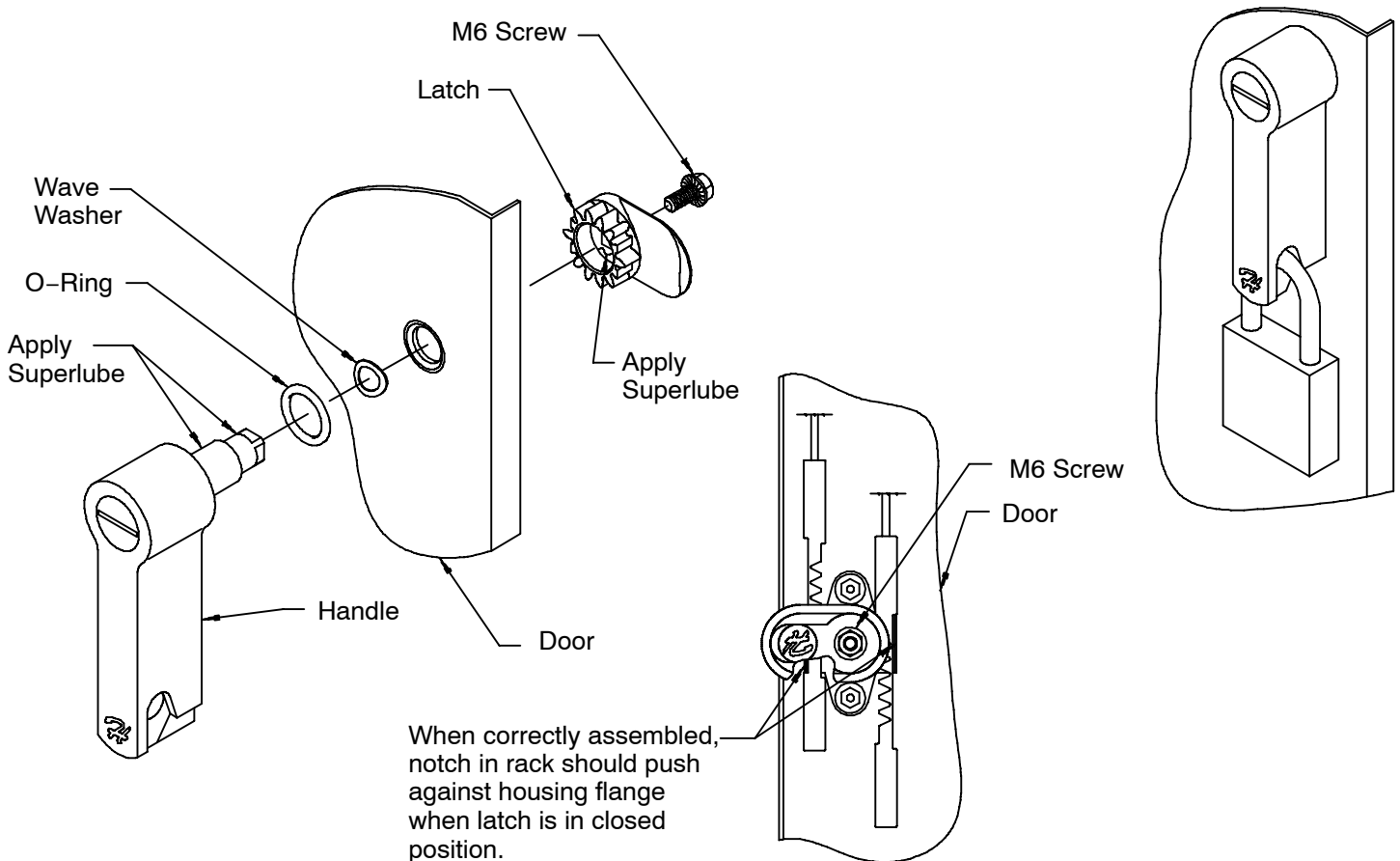


Figure 2

DISCONNECT PADLOCKING HANDLE OPERATION

The disconnect padlocking handle (patent no. 5664448) provided with this enclosure incorporates an integral tool-to-open security feature.

- To gain access to the enclosure, the screwdriver slot must be turned and held 90° counter-clockwise.
- While holding the screwdriver slot, the handle may be turned clockwise, thus opening the enclosure door.
- To close the door, push door to the closed position and turn handle counter-clockwise to latch. The screwdriver slot will automatically reset.
- Installation of a padlock will prevent the screwdriver slot from turning, therefore preventing entry to the enclosure.
- To install padlock, push button upward on bottom of handle to allow the padlock shaft to pass through the handle as shown in figure 2.

CONCEPT[®] Wall-Mounted Disconnect Enclosures
 Installation Instructions for Allen-Bradley 1494V (variable depth) Disconnects

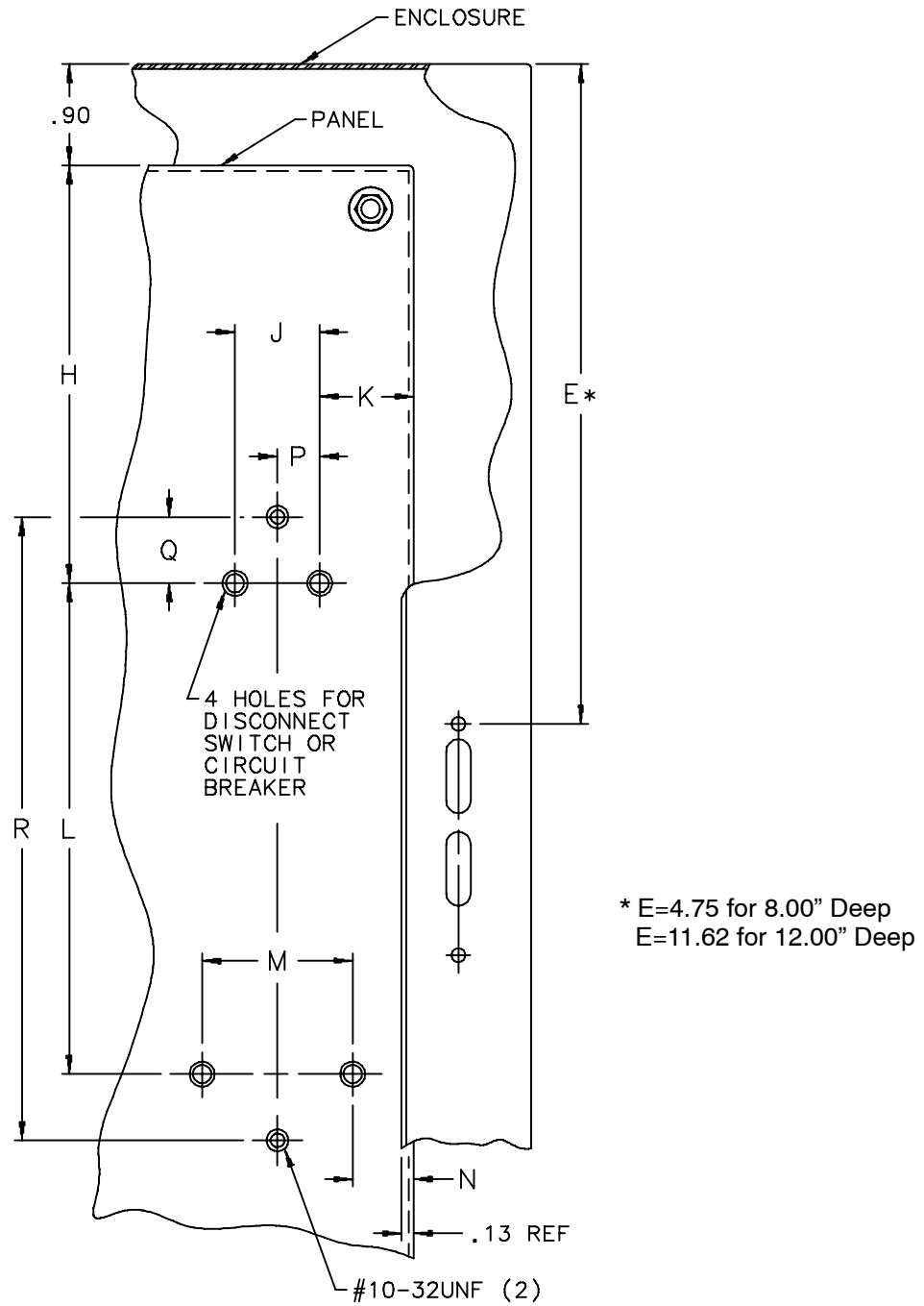


Figure 3

CONCEPT® Wall-Mounted Disconnect Enclosures
Installation Instructions for Allen-Bradley 1494V (variable depth) Disconnects

TABLE 1 Sub-Panel Drilling											
Allen-Bradley Bulletin 1494V Disconnect or operator for Circuit Breaker	Enclosure Depth		J	K	L	M	N	P	Q	R	Hole Size
	8.00 H	12.00 H									
*1494V-DS30 (30 AMP)	2.01	8.88	1.97	2.42	4.33	3.94	1.42	---	---	---	.159Ø 10-32 UNF
*1494V-DS60 (60 AMP)											
*1494V-DS100 (100A./series B)	Do Not Install	8.88	1.97	2.42	4.33	3.94	1.42	---	---	---	.159Ø 10-32 UNF
*1494V-DS200 (200 A./series B)	Do Not Install	7.76	2.36	2.80	4.92	4.72	1.69	---	---	---	.201Ø 1/4-20 UNC
1494V-M40 for 15-150 AMP West.	4.10	10.98	1.38	1.08	4.50	1.38	1.08	---	---	---	.136Ø 8-32 UNF
1494V-M50 for 15-150 AMP West.	Do Not Install	11.54	1.38	1.25	7.25	1.38	1.25	.69	2.03	10.62	.201Ø 1/4-20 UNC
1494V-M60 for 70-400 AMP West.	Do Not Install	10.48	1.72	1.78	8.44	1.72	1.78	.86	1.16	10.75	.201Ø 1/4-20 UNC

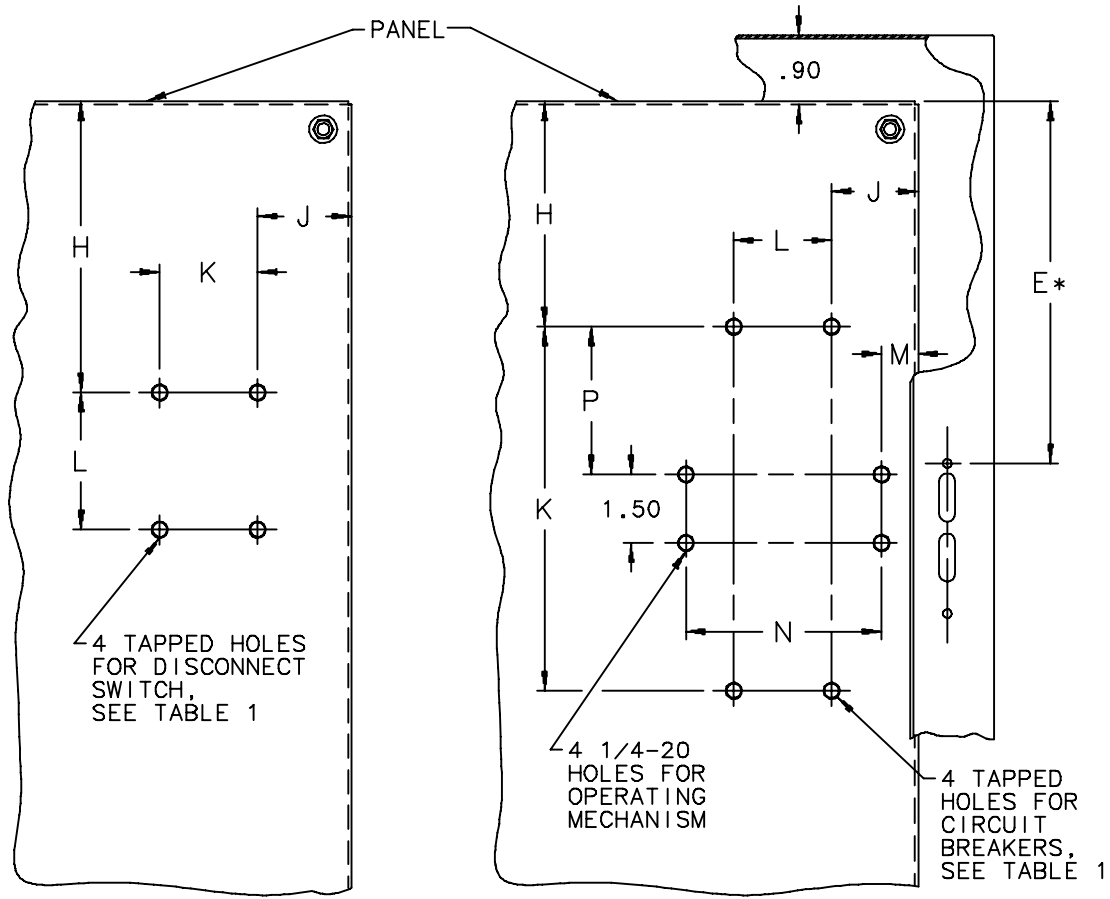
* See A-B Instructions For Locating Fuse Blocks.

NOTE: Allen-Bradley variable depth disconnects are provided with connecting rods that must be cut to length to fit the enclosure depth (from flange surface to subpanel surface). See table 2 and Allen-Bradley instructions.

TABLE 2			
Bulletin	Hoffman Disconnect Enclosure Description	Enclosure Depth C	Allen-Bradley D (1)
CWY CWSD	CONCEPT® Wall Mounted Disconnect Enclosure	8.00	6.88
		12.00	10.88

1) This enclosure depth dimension is used to calculate the length of Allen-Bradley connecting rod(s).

CONCEPT® Wall-Mounted Disconnect Enclosures
 Installation Instructions for Cutler-Hammer C361 and C371
 Disconnects with Variable Depth Operating Mechanisms



* E=4.75 for 8.00" Deep
 E=11.62 for 12.00" Deep

Figure 3

Hole Pattern For Disconnect Switch	Size
C361NC/C361SC	30 AMP
C361ND/C361SD	60 AMP
C361NE/C361SE	100 AMP
C361NF/C361SF	200 AMP

Hole Pattern For Circuit Breaker	Frame Size
HMCP, FS, FH, EHD FDB, FD, HFD	150 AMP
HMCP, JS, JH, JL, JD, JDB, HJD, JDC	250 AMP
HMCP, HK, KS, KD, DK, KDB, HKD	400 AMP
LH, LS, LC	600 AMP

CONCEPT® Wall-Mounted Disconnect Enclosures
Installation Instructions for Cutler-Hammer C361 and C371
Disconnects with Variable Depth Operating Mechanisms

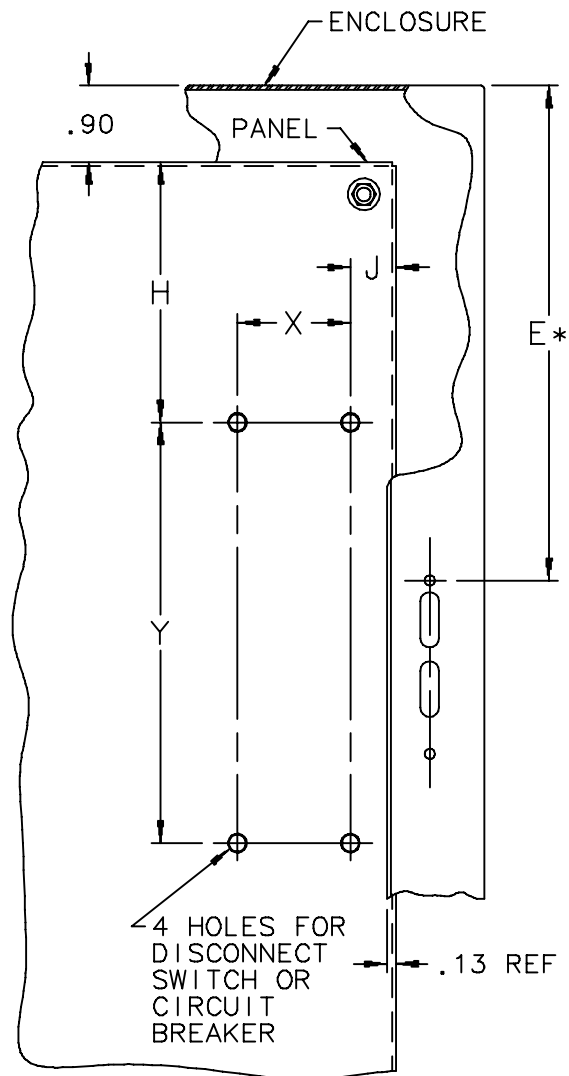
TABLE 1 Sub-Panel Drilling										
Circuit Breaker or Disconnect Switch	Frame Size	H 8" Deep	H 12" Deep	J	K	L	M	N	P	Hole Size
C361NC (30A)	---	2.28	9.16	2.47	4.00	7.13	---	---	---	10-32 UNF
C361SC (30A)	---	2.28	9.16	2.47	4.00	9.75	---	---	---	10-32 UNF
C361ND (60A)	---	2.28	9.16	2.47	4.00	7.13	---	---	---	10-32 UNF
C361SD (60A)	---	2.28	9.16	2.47	4.00	9.75	---	---	---	10-32 UNF
C361NE (100A)	---	2.09	8.97	2.34	5.50	7.13	---	---	---	10-32 UNF
C361SE (100A)	---	2.09	8.97	2.34	5.50	11.88	---	---	---	10-32 UNF
C361NF (200A)	---	Do Not Install	7.38	.81	8.50	15.50	---	---	---	5/16-18 UNC
C361SF (200A)	---		7.38	.81	8.50	15.50	---	---	---	5/16-18 UNC
HMCP, FS, FH, EHD, FDB, FD, HFD	150A	4.50	11.38	2.62	4.50	1.38	---	---	---	8-32 UNF
JS, JH, JL	250A	Do Not Install	11.34	3.13	7.25	1.38	.31	6.95	2.75	10-32 UNF
HMCP	250A		11.34	3.13	7.25	1.38	.31	6.95	2.75	1/4-20 UNC
KH, KS, DK, KDB, KD, HKD, KDC	400A		10.91	2.96	8.44	1.72	.31	6.95	3.18	1/4-20 UNC
HMCP	400A		10.91	2.96	8.44	1.72	.31	6.95	4.00	1/4-20 UNC
LH, LS, LC	600A		9.01	3.88	9.53	2.75	.23	10.05	4.32	1/4-20 UNC

NOTE: Cutler-Hammer variable depth disconnects are provided with connecting rods that must be cut to length to fit the enclosure depth (from flange surface to subpanel surface). See table 2 and Cutler-Hammer instructions.

TABLE 2			
Bulletin	Hoffman Disconnect Enclosure Description	Enclosure Depth C	Cutler-Hammer D (1)
CWY CWSD	CONCEPT® Wall Mounted Disconnect Enclosure	8.00	6.88
		12.00	10.88

1) This dimension is used to determine length to cut Cutler-Hammer connecting rods. See Cutler-Hammer instructions.

CONCEPT® Wall-Mounted Disconnect Enclosures
Installation Instructions for General Electric Type STDA
Variable Depth Operating Mechanisms



* E=4.75 for 8.00" Deep
E=11.62 for 12.00" Deep

Figure 3

CONCEPT® Wall-Mounted Disconnect Enclosures
Installation Instructions for General Electric Type STDA
Variable Depth Operating Mechanisms

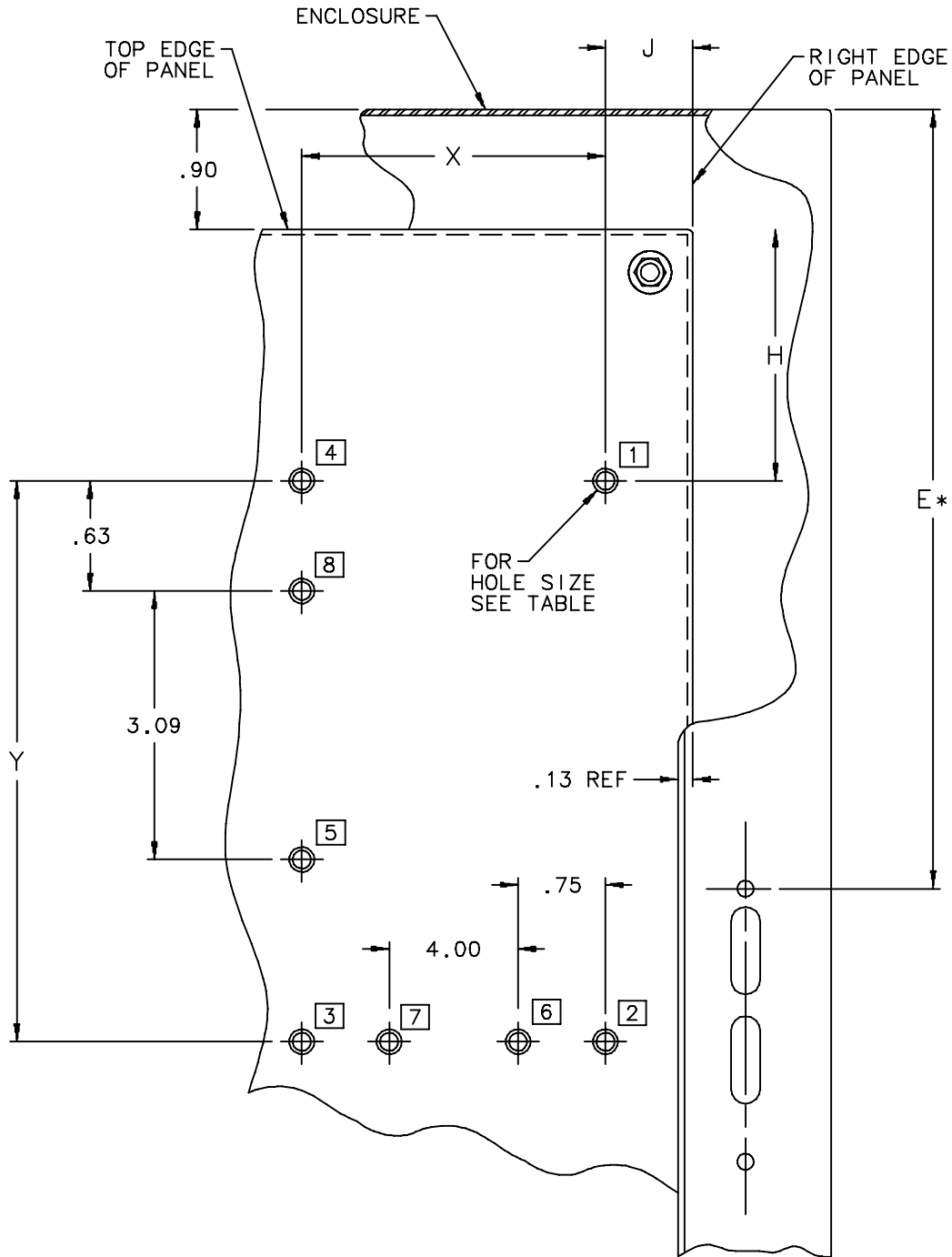
TABLE 1 Sub-Panel Drilling								
G.E. Operating Mechanism	Frame Size	No. Of Holes	Hole Size	H 8" Deep	H 12" Deep	J	X	Y
TDOM1A	QMR-QMW	4	1/4-20	2.22	9.09	.75	3.00	6.75
TDOM1JA	QMR-QMW	4	1/4-20	2.22	9.09	.75	3.00	6.75
TDOM1B	QMR-QMW	4	1/4-20	2.22	9.09	.75	3.00	6.75
TDOM1JB	QMR-QMW	4	1/4-20	2.22	9.09	.75	3.00	6.75
TDOM2	QMR-QMW	4	1/4-20	Do Not Install	9.09	.69	7.00	7.25
SDOM1A	SE150	4	1/4-20	2.22	9.09	.75	3.00	6.75
SDOM3	SF250	4	1/4-20	Do Not Install	9.50	1.69	2.75	10.88
SDOM4	SG600	6	1/4-20	Do Not Install	7.50	1.34	3.35	5.51 AND 12.20
SDOM1A	TEB, TED	4	1/4-20	2.22	9.09	.75	3.00	6.75
SDOM1A SDOM1AP	TB1 TEC, TECL	4	1/4-20	2.22	9.09	.75	3.00	6.75
TDOM3	TFJ, TFK	4	1/4-20	Do Not Install	9.09	1.69	2.75	10.88
TDOM4	JFRAME	4	1/4-20		8.47	1.63	5.50	8.63
TDOM5	TB4, TJH	4	1/4-20		8.47	1.63	5.50	14.63
TDOM6	K FRAME	4	1/4-20		4.72	1.63	5.50	16.75

NOTE: General Electric variable depth disconnects are provided with connecting rods that must be cut to length to fit the enclosure depth (from flange surface to subpanel surface). See table 2 and General Electric instructions.

TABLE 2			
Bulletin	Hoffman Disconnect Enclosure Description	Enclosure Depth C	G.E. D (1)
CWY CWSD	CONCEPT® Wall Mounted Disconnect Enclosure	8.00	6.88
		12.00	10.88

1) This dimension is used to determine length to cut General Electric drive rod and stiffener rod (if used). See G.E. instructions.

CONCEPT® Wall-Mounted Disconnect Enclosures
 Installation Instructions for Square D 9422
 Variable Depth Operating Mechanisms



* $E=4.75$ for 8.00" Deep
 $E=11.62$ for 12.00" Deep

Figure 3

CONCEPT® Wall-Mounted Disconnect Enclosures
Installation Instructions for Square D 9422
Variable Depth Operating Mechanisms

TABLE 1 Sub-Panel Drilling								
Square D Operating Mechanism	No. Of Holes	Mtg. Hole Position	Hole Size	H 8" Deep	H 12" Deep	J	X	Y
TCN, TCF	4	1,4,6,7	10-24	2.84	9.72	.38	5.50	4.50
TDN, TDF	4	1,4,6,7	10-24	2.84	9.72	.38	5.50	4.50
TEN, TEF	4	1,4,6,7	10-24	Do Not Install	9.72	.38	5.50	4.50
TC	4	1,2,5,8	10-24	2.66	9.53	.38	5.13	6.50
TD	4	1,2,4,7	10-24	2.84	9.72	.47	5.19	5.25
TE	4	1,2,3,4	1/4-20	Do Not Install	8.09	1.84	5.50	6.50
TF	4	1,2,3,4	5/16-18	Do Not Install	7.47	1.31	9.44	8.00
RG1	4	1,2,3,4	8-32	2.84	9.72	1.47	1.18	3.94
RN1	4	1,2,3,4	8-32	3.38	10.25	1.38	1.50	5.13
RP1	4	1,2,3,4	10-24	3.38	10.25	1.56	1.50	7.13
RR-1	4	1,2,3,4	1/4-20	Do Not Install	9.59	.19	6.63	6.56
	4	1,2,3,4	.375 Dia.		8.22	2.50	2.00	9.25

NOTE: Square D variable depth disconnects are provided with connecting rods that must be cut to length to fit the enclosure depth (from flange surface to subpanel surface). See table 2 and Square D instructions.

TABLE 2			
Bulletin	Hoffman Disconnect Enclosure Description	Enclosure Depth C	Square "D" D (1)
CWY CWSD	CONCEPT® Wall Mounted Disconnect Enclosure	8.00	6.88
		12.00	10.88

1) This dimension is used to determine length to cut Square D operating rods. Use .070 for "T" dimension.

CONCEPT® Wall-Mounted Disconnect Enclosures
Installation Instructions for Cutler-Hammer C371
Flex Shaft™ Flexible Cable Operating Mechanisms

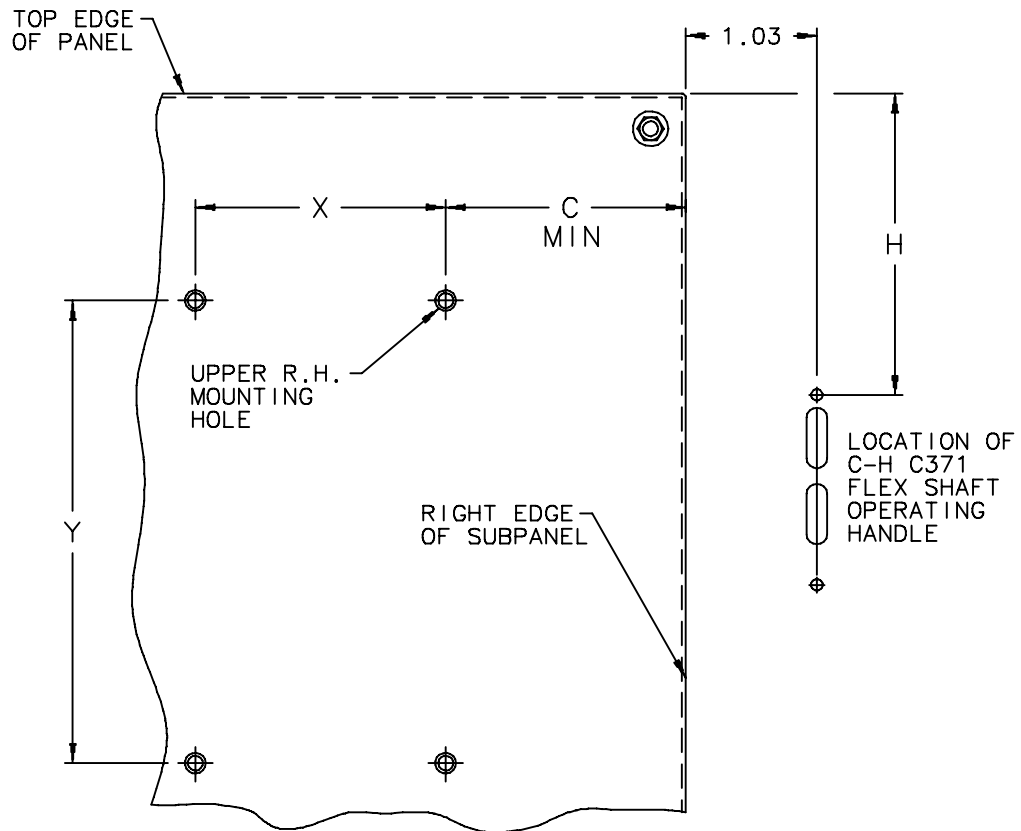


Figure 3 CH

CONCEPT[®] Wall-Mounted Disconnect Enclosures
 Installation Instructions for Cutler-Hammer C371
 Flex Shaft[™] Flexible Cable Operating Mechanisms

TABLE 1 Sub-Panel Drilling				
Circuit Breaker Frame Size	Hole Size	X	Y	C _{min}
F	8-32	1.375	4.500	1.38
J	1/4-20	1.375	7.250	1.38
K	1/4-20	1.719	8.438	1.88

TABLE 2			
Bulletin	Hoffman Disconnect Enclosure Description	Enclosure Depth	H
CWY CWSD	CONCEPT [®] Wall Mounted Disconnect	8.00	3.85
		12.00	10.72

Step1 – Determine disconnect hole pattern from [Figure 3 CH](#) and the above tables. See disconnect manufacturers instructions for range of disconnect location based on cable length being used and depth of enclosure.

NOTE – Locate disconnect so appropriate wire bend space is provided for the line side wire size being used. Refer to National Electrical Code Article 430-10b for wire bend space required.

CONCEPT® Wall-Mounted Disconnect Enclosures
Installation Instructions for General Electric SCH
Flexible Cable Operating Mechanisms

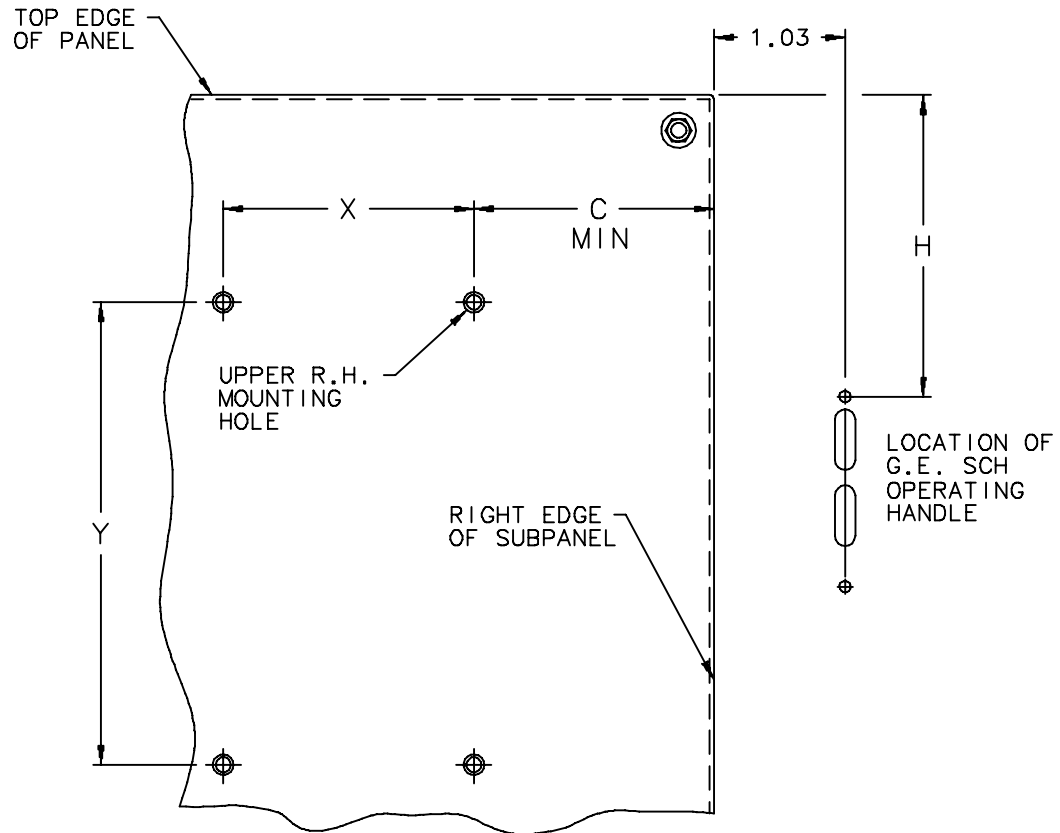


Figure 3 GE

CONCEPT® Wall-Mounted Disconnect Enclosures
Installation Instructions for General Electric SCH
Flexible Cable Operating Mechanisms

TABLE 1 Sub-Panel Drilling						
Cable Mechanism	Circuit Breaker	No. of Holes	Hole Size	X	Y	C_{min}
SCOM1A	E150	4	8-32	1.38	4.88	1.38
SCOM1EF	SE150	4	10-32	1.38	4.88	1.38
	SF250	4	12-24	1.38	7.75	1.38
SCOM1G	SG600	4	12-24	1.81	7.75	1.84
SCOM1K	SK1200	4	5/16-18	2.75	14.25	2.75

TABLE 2			
Bulletin	Hoffman Disconnect Enclosure Description	Enclosure Depth C	H
CWY CWSD	CONCEPT® Wall Mounted Disconnect	8.00	3.85
		12.00	10.72

Step1 – Determine disconnect hole pattern from [Figure 3 GE](#) and the above tables. See disconnect manufacturers instructions for range of disconnect location based on cable length being used and depth of enclosure.

NOTE – Locate disconnect so appropriate wire bend space is provided for the line side wire size being used. Refer to National Electrical Code Article 430-10b for wire bend space required.

CONCEPT® Wall-Mounted Disconnect Enclosures
 Installation Instructions for Siemens (I-T-E) Max Flex™
 Flexible Cable Operating Mechanisms

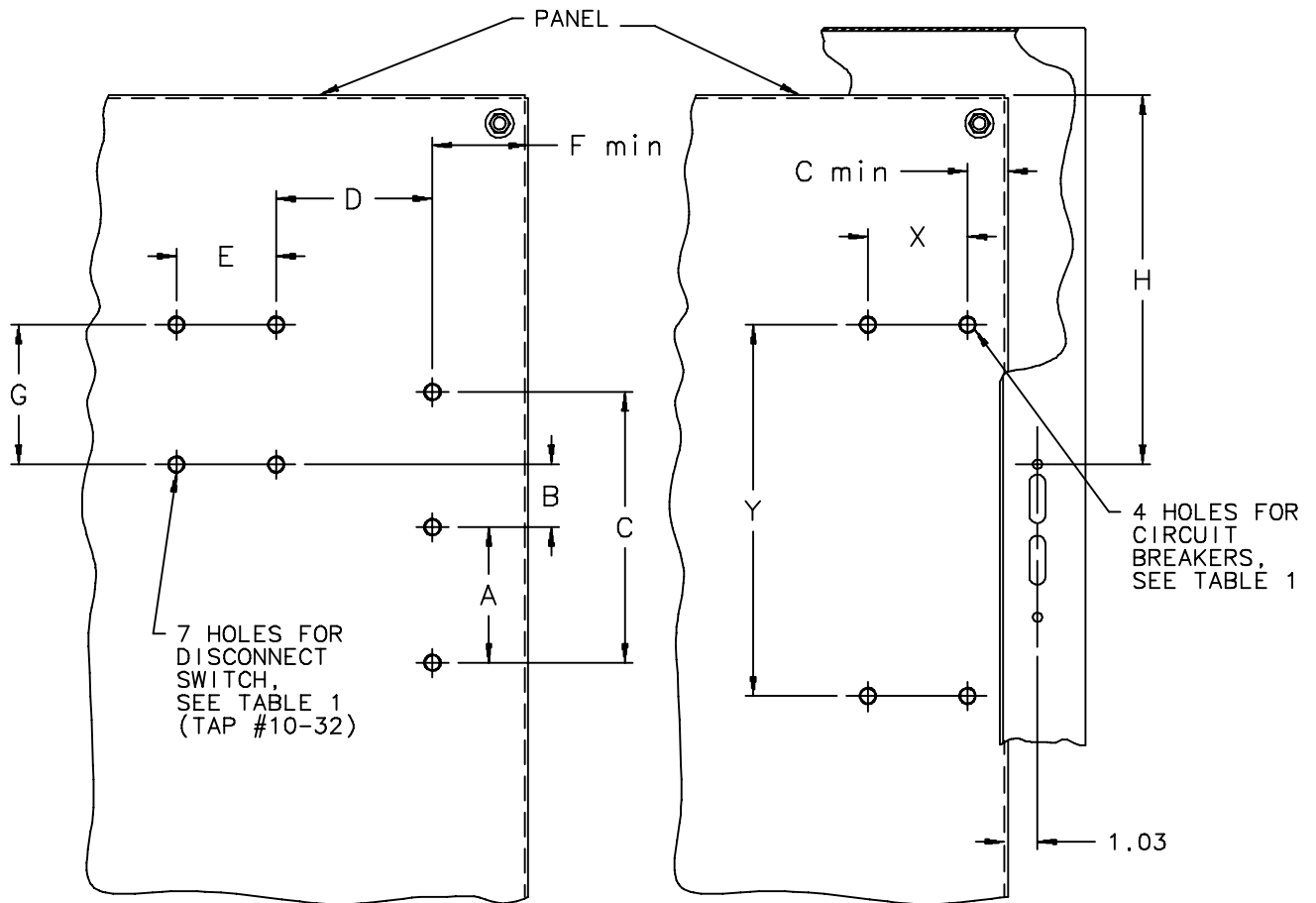


Figure 3 ITE

CONCEPT® Wall-Mounted Disconnect Enclosures
Installation Instructions for Siemens (I-T-E) Max Flex™
Flexible Cable Operating Mechanisms

TABLE 1 Sub-Panel Drilling For Disconnect Switches									
I-T-E* Mechanism	Fits Disconnect Device	No. of Holes	A	B	C	D	E	F _{min}	G
FHOS06036R	30 A SW.	4 & 3	2.00	1.69	5.10	2.88	1.50	.66	1.89
FHOS06036R	60 A SW.	4 & 3	2.00	1.69	5.10	2.88	1.50	.66	1.89
FHOS06036R	100 A SW.	4 & 3	2.00	.82	5.10	3.21	1.81	.66	3.00
FHOS20036R	200 A SW.	4 & 3	2.50	-1.00	5.50	1.00	7.86	.62	5.44

TABLE 1 Sub-Panel Drilling For Circuit Breakers					
I-T-E* Mechanism	No. of Holes	Hole Size	X	Y	C _{min}
FHOE036	4	8-32	1.00	5.00	1.00
FHOF036	4	1/4-20	1.50	7.50	1.50
FHOJ036	4	1/4-20	2.50	9.75	2.50
FHOLM036	4	1/4-20	2.50	9.75	2.50

* These mechanisms include 36" operating cables. If longer cables are needed, order I-T-E components separately.

TABLE 2 Location of Disconnect Operating Handle			
Bulletin	Hoffman Disconnect Enclosure Description	Enclosure Depth	H
CWY CWSD	CONCEPT® Wall Mounted Disconnect	8.00	3.85
		12.00	10.72

Step1 – Determine disconnect hole pattern from [Figure 3 I-T-E](#) and the above tables. See disconnect manufacturers instructions for range of disconnect location based on cable length being used and depth of enclosure.

NOTE – Locate disconnect so appropriate wire bend space is provided for the line side wire size being used. Refer to National Electrical Code Article 430-10b for wire bend space required.

CONCEPT® Wall-Mounted Disconnect Enclosures
 Installation Instructions for Square D 9422
 Flexible Cable Operating Mechanisms

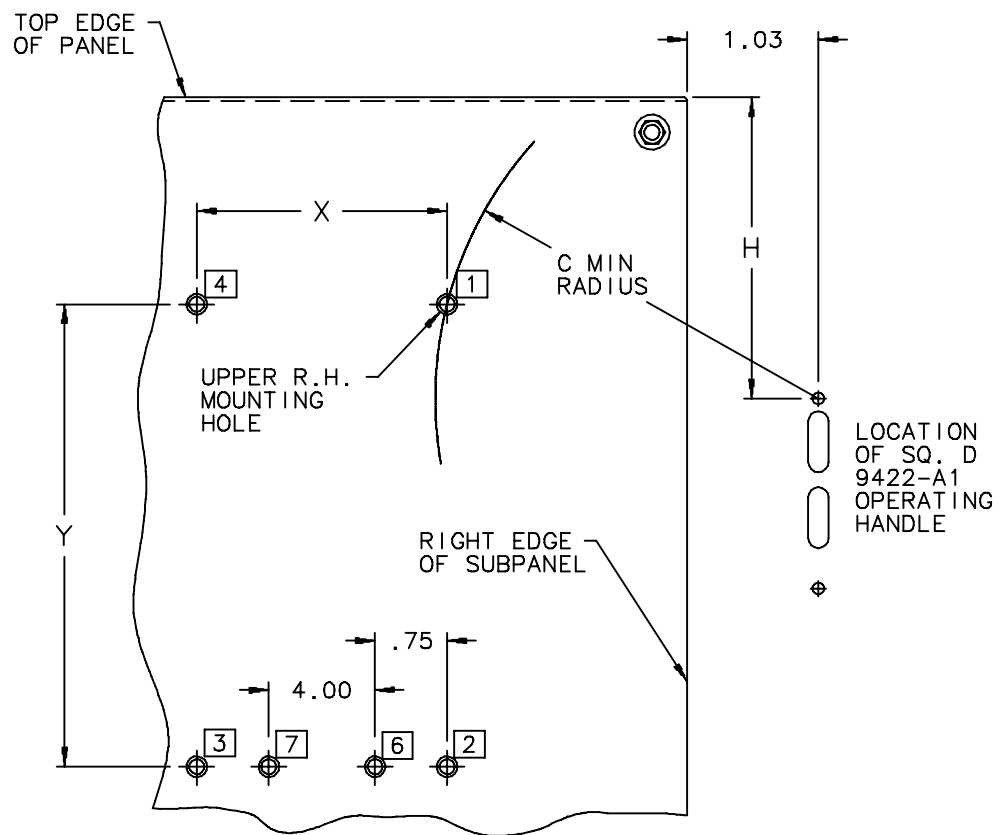


Figure 3 SQ D

CONCEPT® Wall-Mounted Disconnect Enclosures
Installation Instructions for Square D 9422
Flexible Cable Operating Mechanisms

TABLE 1 Sub-Panel Drilling							
Cable Mechanism	Disconnect Mechanism	No. of Holes	Hole Position	Hole Size	X	Y	C _{min} *
CFT	TCN, TCF	4	1,4,6,7	10-24	5.50	4.50	1.00
	TDN, TDF	4	1,4,6,7	10-24	5.50	4.50	1.00
	TEN, TEF	4	1,4,6,7	10-24	5.50	4.50	1.00
CGJ	GJL	4	1,2,3,4	8-32	1.18	3.94	2.50
CFA	FAL, FHL	4	1,2,3,4	8-32	1.50	5.13	3.75
CKA	KAL, KHL	4	1,2,3,4	10-24	1.50	7.13	3.75
CLA**	LAL, LHL	4	1,2,3,4	1/4-20	6.63	6.56	2.25
		4	1,2,3,4	.375 Dia.	2.00	9.25	---

* See Square "D" instructions for range of "C" dimension which vary for 36", 60" and 120" cable lengths.

** See Square "D" instructions for relationship between 1/4-20 and .375 diameter holes for LA circuit breaker.

TABLE 2			
Bulletin	Hoffman Disconnect Enclosure Description	Enclosure Depth	H
CWY CWSD	CONCEPT® Wall Mounted Disconnect	8.00	3.85
		12.00	10.72

Step1 – Determine disconnect hole pattern from [Figure 3 SQ. D](#) and the above tables. See disconnect manufacturers instructions for range of disconnect location based on cable length being used and depth of enclosure.

NOTE – Locate disconnect so appropriate wire bend space is provided for the line side wire size being used. Refer to National Electrical Code Article 430-10b for wire bend space required.



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