Installation Instructions For Large Grounding Kit 99411400

A Pentair Company

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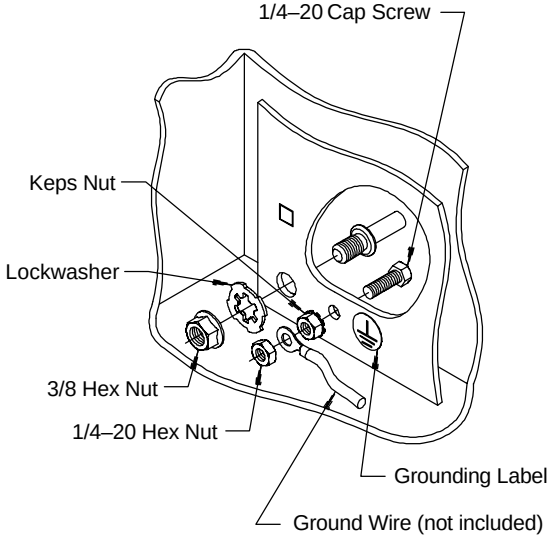
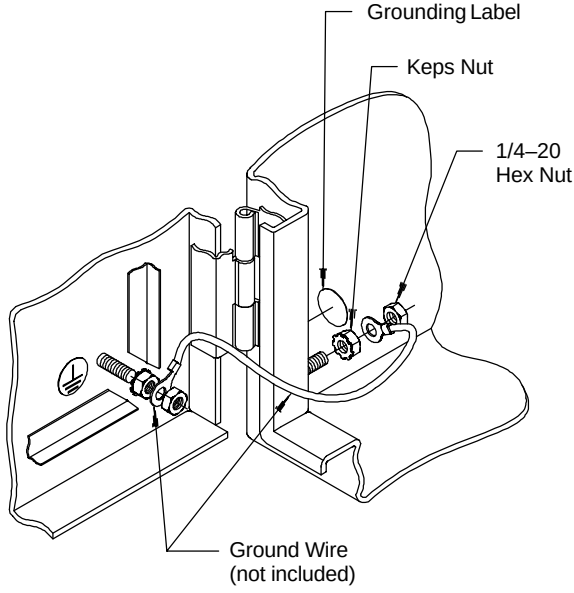


1. Insert the 1/4–20x7/8 bolt through the hole in the panel as shown.
2. Secure bolt with keps nut. The keps nuts must penetrate into the paint to insure electrical continuity.
3. Attach the ground wire and secure with 1/4–20 hex nut as shown.
4. Install the lockwasher under one of the nuts securing the panel to insure grounding between the panel and the enclosure.
5. Attach grounding label included adjacent to the bolt as shown.

Installation Instructions For Large Grounding Kit 99411400

1. Secure keps nut on each ground stud. The keps nuts must penetrate into the paint to insure electrical continuity.
2. Attach the ground wire and secure with the 1/4–20 hex nuts as shown.
3. Attach the grounding labels included adjacent to the studs as shown.



Enclosure Alterations

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Hoffman cannot assure the safety or effectiveness of any alterations or additions not made by Hoffman Enclosures Inc. However, the following information may be helpful. These instructions do not eliminate the need to consult with equipment manufacturers and to observe all regulatory agency procedures and safe practices to assure the proper electrical and mechanical function of Hoffman products in each particular application.

1. REPAINTING

See "Instructions for Repainting Hoffman Standard Paint Finishes", part number 23155002.

2. MOUNTING INSTRUCTIONS

a. Wall mounted enclosures have either an internal mounting means or external mounting feet. Proper fasteners must be used in all mounting holes to secure the enclosure to the wall.

b. Floor mounted enclosures have floor stands (legs) which include mounting plates. Proper fasteners must be used in all mounting holes to securely anchor the enclosure to the floor.

3. DOOR CLOSING ADJUSTMENTS

a. Single door (wall mounted)
If the surface on which the enclosure is mounted is not flat, the door may not open and close properly. Also, if heavy equipment is mounted on a large door, the door may sag slightly. If the top of the door strikes the lip which extends around the body opening, place metal shims behind the mounting foot which is located at the bottom of the enclosure and closest to the door hinge. Place the shims between the mounting foot and the wall or mounting surface. Be sure all mounting screws are tightened securely.

b. Two door (floor mounted)
The overlapping doors are factory–fitted to meet evenly at the top and bottom. If the floor under the enclosure is not level, the doors will not close evenly. In this case, place metal shims under the corners of the enclosure. The enclosure should be bolted in place with the doors closed to prevent tipping when installing shims. Shims under the right front corner will raise the right door. Shims under the left front corner will raise the left door. It is important that the doors meet evenly to insure a proper seal against liquids and dust. Be sure all mounting bolts are tightened securely.

4. PANEL INSTALLATION

When the interior panel is being installed, it may be necessary to bend one or more mounting studs slightly to permit the panel to fit in place. Simply position the panel on the studs that line up properly and pry the other studs into position with a suitable screwdriver inserted through the panel holes.

5. REMOVING HINGE PINS FROM CONTINUOUS HINGES

This can be a difficult operation requiring one or more people. This procedure is best accomplished by using a small diameter punch to drive the hinge pin toward the bottom of the enclosure. Lay the wall–mounted and floor–mounted or free–standing enclosure on its back side (see note 7 below). When the hinge pin protrudes about two inches below the bottom hinge barrel, bend the end of the pin 180° so it is shaped like the letter "J". Use an electric or air powered vibrating hammer fitted with a tool which has a hole in the end to fit over the hinge pin, and drive the hinge pin out while opening and closing the door. To install the hinge pin, straighten the pin and drive it in with the vibrating hammer while opening and closing the door. Most hinge pins have one end chamfered, so be sure to start the chamfered end first when installing the pin.

6. PRINT POCKET

The print pocket on the door can be inverted or removed entirely.

7. LIFTING ENCLOSURES BY EYEBOLTS

To lift an enclosure which has eyebolts or mounting feet, be sure to use all the eyebolts and top mounting feet provided. Arrange the chains and cables with spreader bars so you are lifting straight up on the eyebolts or top mounting feet.

ACCESSORIES AND HARDWARE

Hoffman cannot assure the safety or effectiveness of any alterations or additions not made by Hoffman Enclosures Inc.

Lock kits and latch kits are available for field or factory installation on many types of Hoffman enclosures. Lock kits provide key–locking capabilities. Latch kits permit rapid access to enclosure interiors while retaining the oil tight and dust tight features.

Louver plate kits provide ventilation in enclosures where internal heat is a problem.

Floor stand kits for converting wall mounting enclosures to floor mounting are available for field or factory installation on single door NEMA 12 and NEMA 4 enclosures.

Drip shield kits are available for field or factory installation on single door and double door NEMA 12 enclosures.

Electrical interlocks provide a positive internal safety lockout on electrical enclosures while the enclosure contents are energized.

Swing–out panel kits provide a means of mounting gauges, switches, pilot lights and other components near the front of the enclosure.

Safety Lockouts protect personnel and equipment by enabling multiple padlocks to be installed on a de–energized switch.

Touch–up paint is used to repair the finish of enclosures and panels.

Window kits are available for many types of Hoffman enclosures.

Corrosion inhibitors protect interior components of enclosures, wireway, consoles, etc. from corrosion. There are no coatings, oils, or greases to apply.

Hole seals are used to seal extra conduit openings, pushbutton holes, cutouts, etc. against dust, dirt, oil, and water.

Terminal kit assemblies provide an easy method to mount terminal blocks in many types of Hoffman enclosures.

Folding Shelves can be used to support instruments and test equipment.

Pedestals are used to provide floor mounting at a working height for small to medium size enclosures.

OTHER HOFFMAN PRODUCTS

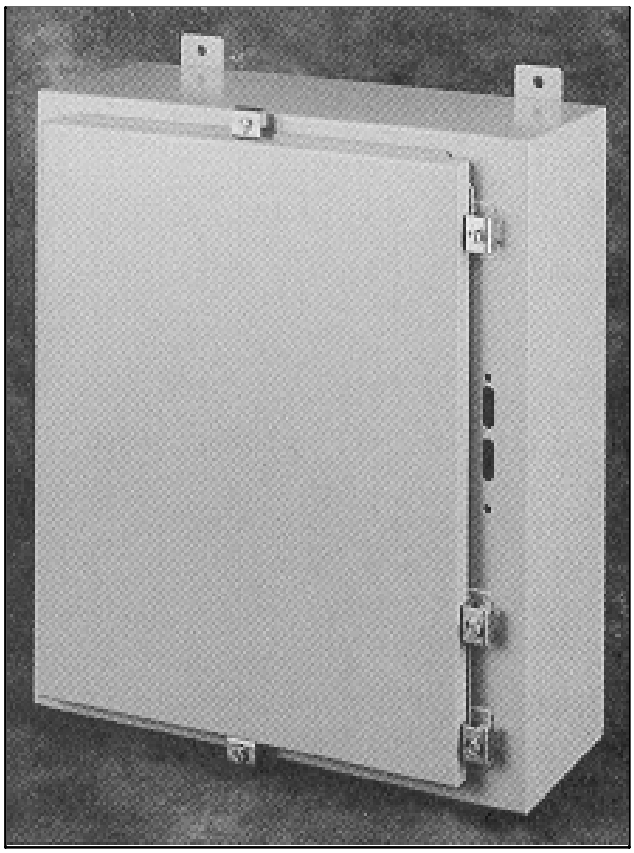
- NEMA 1, NEMA 3R, NEMA 4, NEMA 4X, NEMA 9, and NEMA 12 enclosures
- Oil tight JIC boxes and troughs.
- Oil tight wireway and lay–in wireway
- NEMA 1 wireway
- Oil tight pushbutton enclosures
- Cutout boxes, pull boxes, and transformer cabinets
- Non–metallic enclosures
- Stainless steel enclosures and boxes
- Aluminum enclosures and boxes
- Console cabinets
- Custom–built enclosures of all types
- Instrument and electronic enclosures
- Environmental control products
- EMI/RFI shielded enclosures
- Wiring duct
- Modified Standard Enclosures
- Co–Developed Enclosures

Hoffman®

A Pentair Company

For Variable Depth Disconnect Devices And For Flexible Cable Disconnect Devices

In Hoffman Bulletin A19 (painted steel) Or Hoffman Bulletin A19S (stainless steel) Wall Mounted Disconnect Enclosures



⚠ WARNING

The functions, fits, and clearances of the installation described hereon are calculated from information supplied by the manufactures 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.
2100 Hoffman Way
Anoka, MN 55303–1745
(763) 422–2211

NOTICE

To maintain the environmental rating of this enclosure: install in any opening, only listed or recognized disconnect devices, 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

INSTALLATION STEPS

Step 1 – Drill mounting holes in panel for specific disconnect device being installed. See installation instruction index on page 2 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 – Install door catch (furnished by disconnect manufacturer) on bracket that is welded to the inside of the Hoffman bulletin A19 or A19S enclosure door. See Figure 1 below. (the disconnect manufacturer door catch bracket is not required) See disconnect manufactures instructions to adjust door catch to properly interlock with the disconnect operating handle.

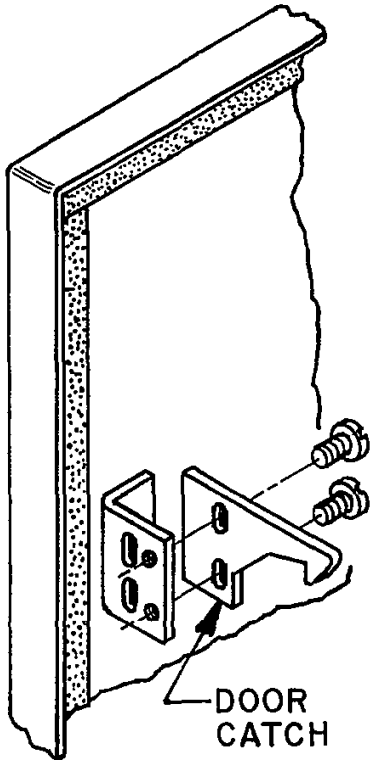


Figure 1

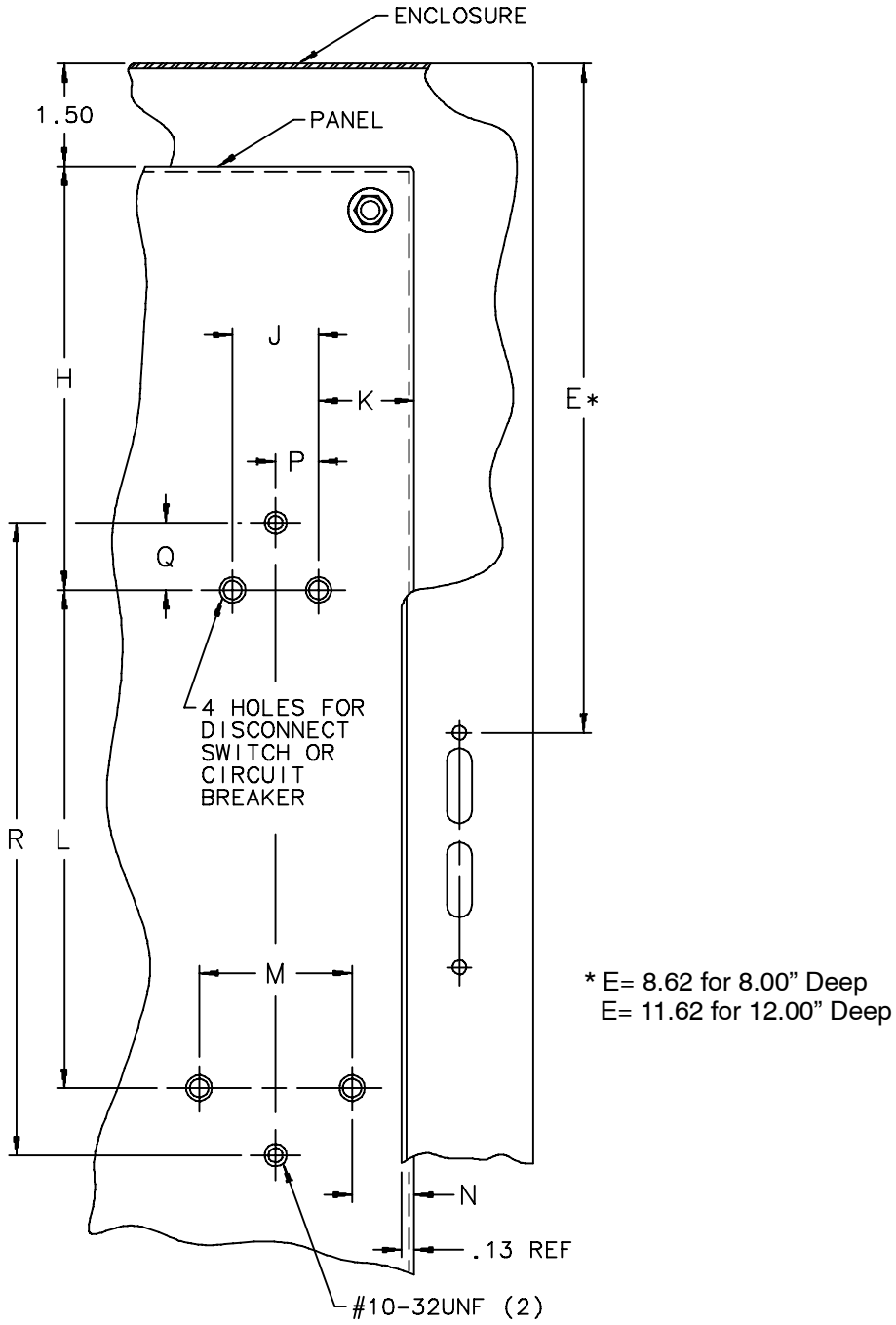


Figure 3

TABLE 1
Sub−Panel Drilling

Allen−Bradley Bulletin 1494V Disconnect or operator for Circuit Breaker	Enclosure Depth 8.00 H	Enclosure Depth 12.00 H	J	K	L	M	N	P	Q	R	Hole Size
*1494V−DS30 (30 AMP)	5.28	8.28	1.97	2.56	4.33	3.94	1.56	− − −	− − −	− − −	.159∅ 10−32 UNF
*1494V−DS60 (60 AMP)											
*1494V−DS100 (100A./series B)											
*1494V−DS200 (200 A./series B)	Do Not Install	7.16	2.36	2.94	4.92	4.72	1.81	− − −	− − −	− − −	.201∅ 1/4−20 UNC
1494V−M40 for 15−150 AMP West.	7.38	10.38	1.38	1.09	4.50	1.38	1.09	− − −	− − −	− − −	.136∅ 8−32 UNF
1494V−M50 for 15−150 AMP West.	Do Not Install	10.94	1.38	1.25	7.25	1.38	1.25	.69	2.03	10.62	.201∅ 1/4−20 UNC
1494V−M60 for 70−400 AMP West.	Do Not Install	9.88	1.72	1.78	8.44	1.72	1.78	.86	1.16	10.75	.201∅ 1/4−20 UNC

* See A−B Instructions For Locating Fuse Blocks.

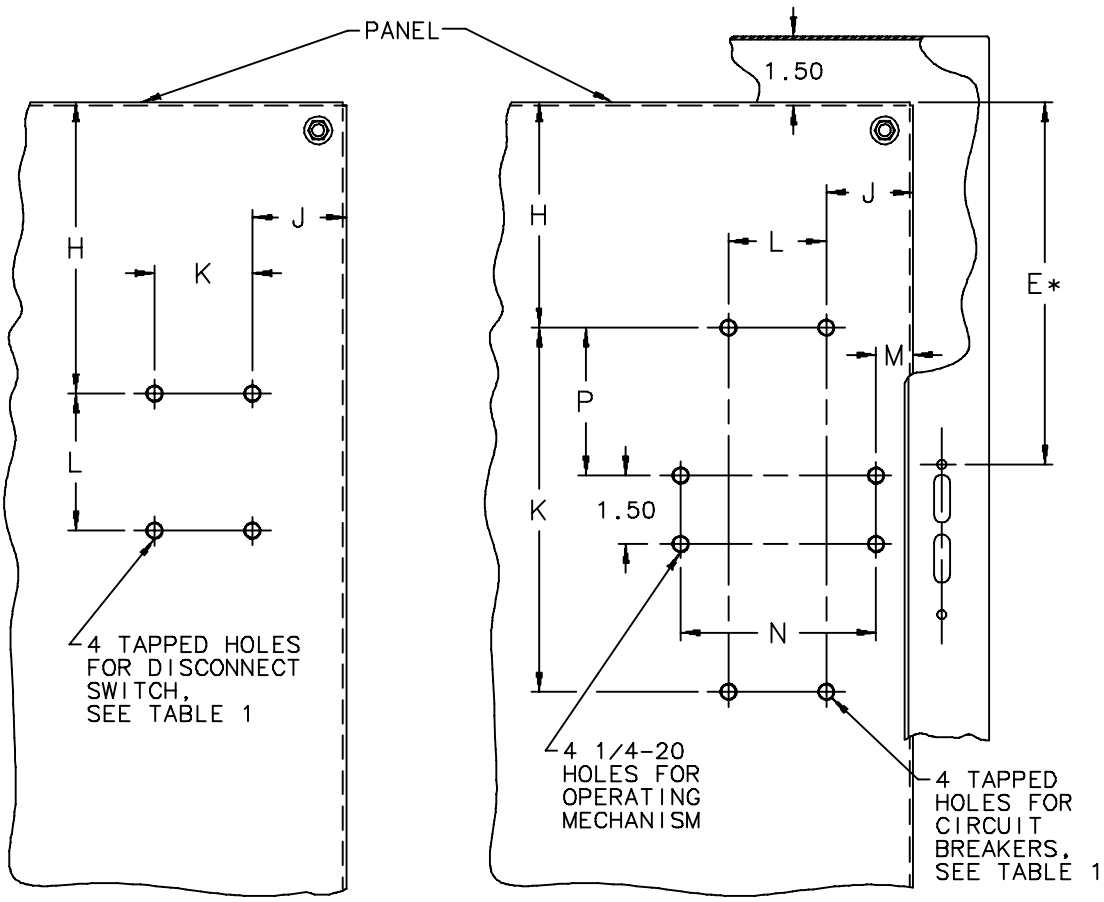
NOTE: Allen−Bradley variable depth disconnects are provided with connecting rods that must be cut to length to fit the enclosure depth (from flange surface to subpanel surface). See table 2 and Allen−Bradley instructions.

TABLE 2

Bulletin	Hoffman Disconnect Enclosure Description	Enclosure Depth **C**	Allen−Bradley **D** (1)
A19 A19S	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).

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



* E= 8.62 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

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)	– – –	5.56	8.56	2.47	4.00	7.13	– – –	– – –	– – –	10−32 UNF
C361SC (30A)	– – –	5.56	8.56	2.47	4.00	9.75	– – –	– – –	– – –	10−32 UNF
C361ND (60A)	– – –	5.56	8.56	2.47	4.00	7.13	– – –	– – –	– – –	10−32 UNF
C361SD (60A)	– – –	5.56	8.56	2.47	4.00	9.75	– – –	– – –	– – –	10−32 UNF
C361NE (100A)	– – –	5.38	8.38	2.34	5.50	7.13	– – –	– – –	– – –	10−32 UNF
C361SE (100A)	– – –	5.38	8.38	2.34	5.50	11.88	– – –	– – –	– – –	10−32 UNF
C361NF (200A)	– – –	3.79	6.79	.81	8.50	15.50	– – –	– – –	– – –	5/16−18 UNC
C361SF (200A)	– – –	3.79	6.79	.81	8.50	15.50	– – –	– – –	– – –	5/16−18 UNC
HMCP, FS, FH, EHD, FDB, FD, HFD	150A	7.79	10.79	2.62	4.50	1.38	– – –	– – –	– – –	8−32 UNF
JS, JH, JL	250A	Do Not Install	10.75	3.13	7.25	1.38	.31	6.95	2.75	10−32 UNF
HMCP	250A		10.75	3.13	7.25	1.38	.31	6.95	2.75	1/4−20 UNC
KH, KS, DK, KDB, KD, HKD, KDC	400A		10.31	2.96	8.44	1.72	.31	6.95	3.18	1/4−20 UNC
HMCP	400A		10.31	2.96	8.44	1.72	.31	6.95	4.00	1/4−20 UNC
LH, LS, LC	600A		8.42	3.88	9.53	2.75	.23	10.05	4.32	1/4−20 UNC

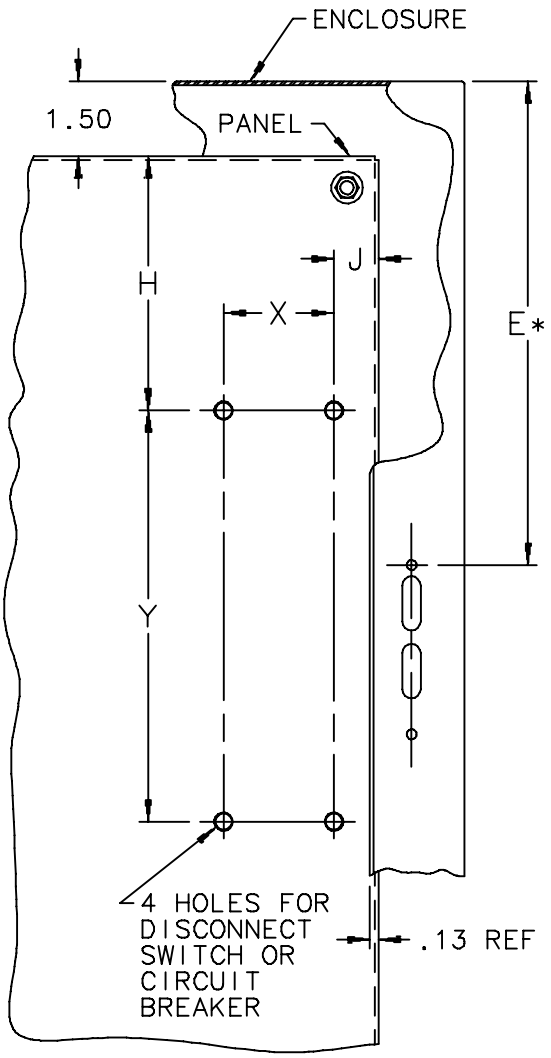
NOTE: Cutler−Hammer variable depth disconnects are provided with connecting rods that must be cut to length to fit the enclosure depth (from flange surface to subpanel surface). See table 2 and Cutler−Hammer instructions.

TABLE 2

Bulletin	Hoffman Disconnect Enclosure Description	Enclosure Depth **C**	Cutler−Hammer **D** (1)
A19 A19S	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.

Wall−Mounted Disconnect Enclosures
Installation Instructions for General Electric Type STDA
Variable Depth Operating Mechanisms



* E= 8.62 for 8.00” Deep
E= 11.62 for 12.00” Deep

Figure 3

Wall−Mounted Disconnect Enclosures
Installation Instructions for General Electric Type STDA
Variable Depth Operating Mechanisms

TABLE 1
Sub−Panel Drilling

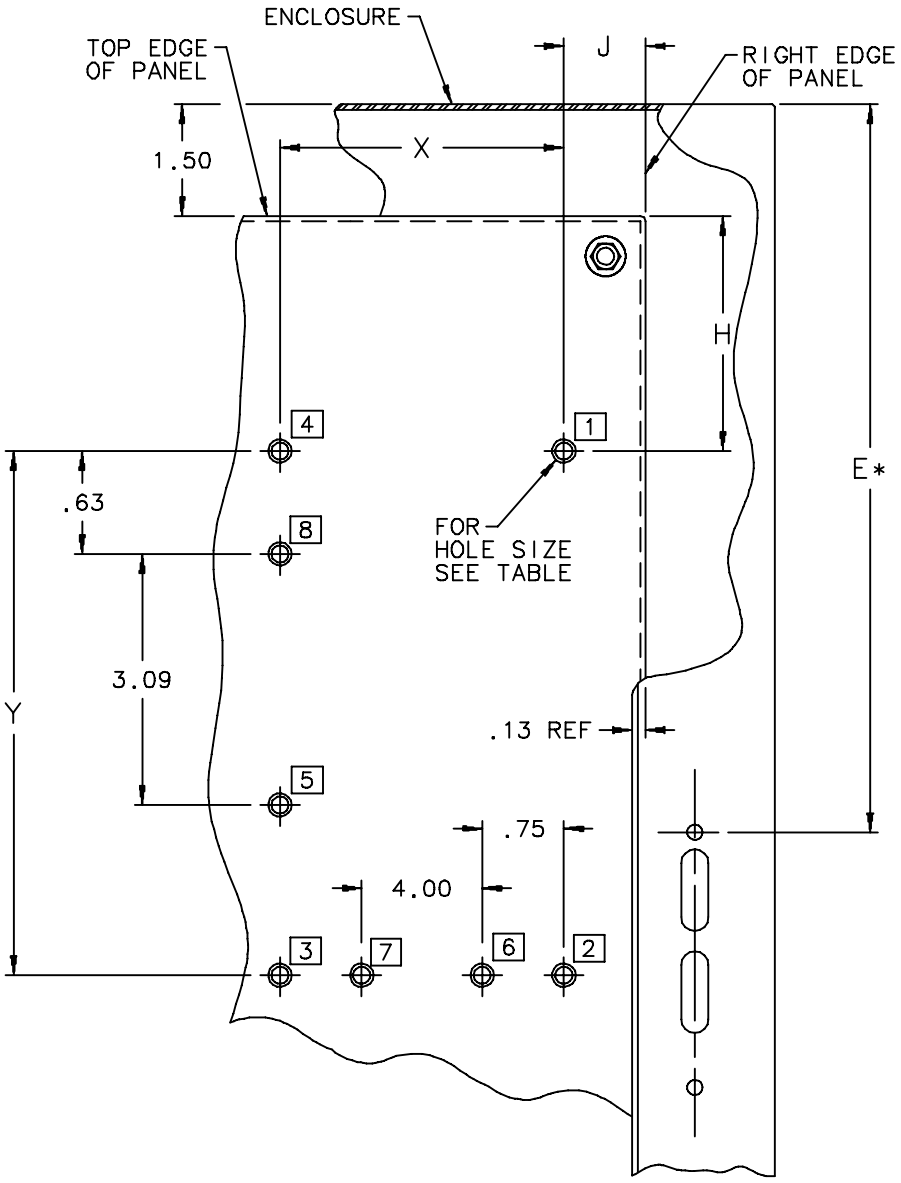
G.E. Operating Mechanism	Frame Size	No. Of Holes	Hole Size	H 8" Deep	H 12" Deep	J	X	Y
TDOM1A	QMR−QMW	4	1/4−20	5.50	8.50	.75	3.00	6.75
TDOM1JA	QMR−QMW	4	1/4−20	5.50	8.50	.75	3.00	6.75
TDOM1B	QMR−QMW	4	1/4−20	5.50	8.50	.75	3.00	6.75
TDOM1JB	QMR−QMW	4	1/4−20	5.50	8.50	.75	3.00	6.75
TDOM2	QMR−QMW	4	1/4−20	5.50	8.50	.69	7.00	7.25
SDOM1A	SE150	4	1/4−20	5.50	8.50	.75	3.00	6.75
SDOM3	SF250	4	1/4−20	5.91	8.91	1.69	2.75	10.88
SDOM4	SG600	6	1/4−20	Do Not Install	6.91	1.34	3.35	5.51 AND 12.20
SDOM1A	TEB, TED	4	1/4−20	5.50	8.50	.75	3.00	6.75
SDOM1A SDOM1AP	TB1 TEC, TECL	4	1/4−20	5.50	8.50	.75	3.00	6.75
TDOM3	TFJ, TFK	4	1/4−20	5.50	8.50	1.69	2.75	10.88
TDOM4	JFRAME	4	1/4−20	4.88	7.88	1.63	5.50	8.63
TDOM5	TB4, TJH	4	1/4−20	4.88	7.88	1.63	5.50	14.63
TDOM6	K FRAME	4	1/4−20	Do Not Install	4.13	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)
A19 A19S	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).



* E= 8.62 for 8.00” Deep
E= 11.62 for 12.00” Deep

Figure 3

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	6.13	9.13	.38	5.50	4.50
TDN, TDF	4	1,4,6,7	10−24	6.13	9.13	.38	5.50	4.50
TEN, TEF	4	1,4,6,7	10−24	6.13	9.13	.38	5.50	4.50
TC	4	1,2,58	10−24	5.94	8.94	.38	5.13	6.50
TD	4	1,2,47	10−24	6.13	9.13	.47	5.19	5.25
TE	4	1,2,3,4	1/4−20	Do Not Install	7.50	1.84	5.50	6.50
TF	4	1,2,3,4	5/16−18	Do Not Install	6.88	1.31	9.44	8.00
RG1	4	1,2,3,4	8−32	6.13	9.13	1.47	1.18	3.94
RN1	4	1,2,3,4	8−32	6.66	9.66	1.38	1.50	5.13
RP1	4	1,2,3,4	10−24	6.66	9.66	1.56	1.50	7.13
RR−1	4	1,2,3,4	1/4−20	6.00	9.00	.19	6.63	6.56
	4	1,2,3,4	.375 Dia.	4.63	7.63	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)
A19 A19S	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.

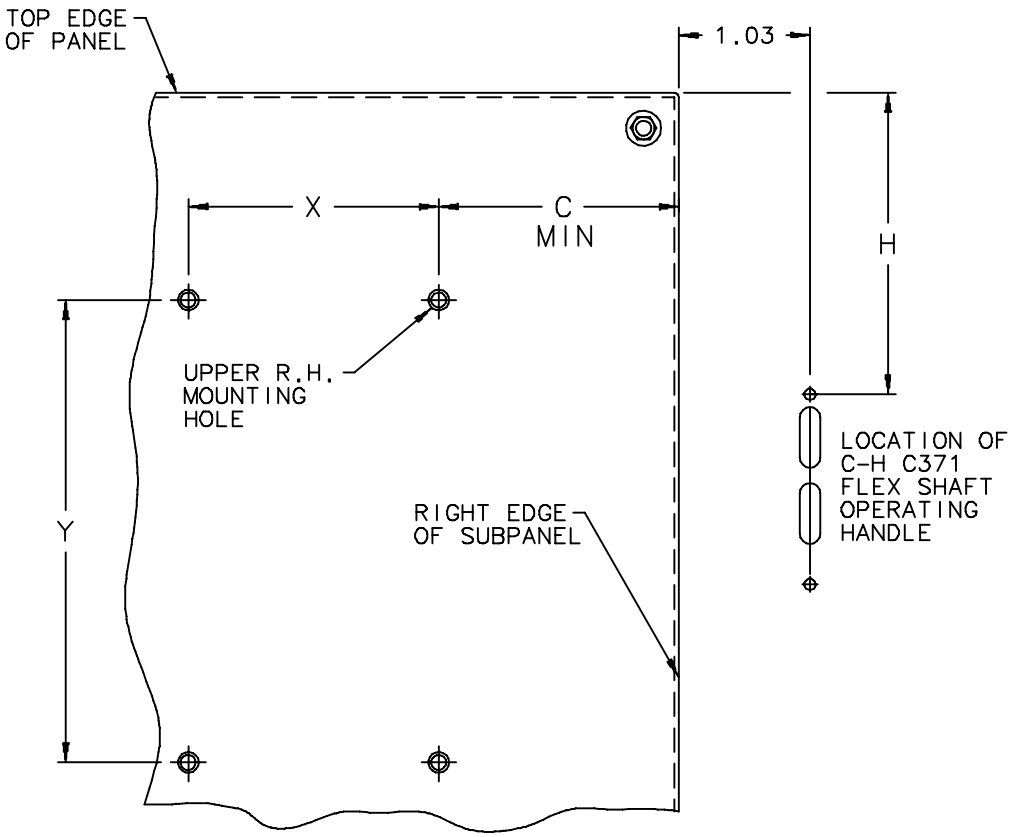


Figure 3 CH

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**
A19 A19S	Wall Mounted Disconnect Enclosure	8.00	7.13
		12.00	10.13

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.

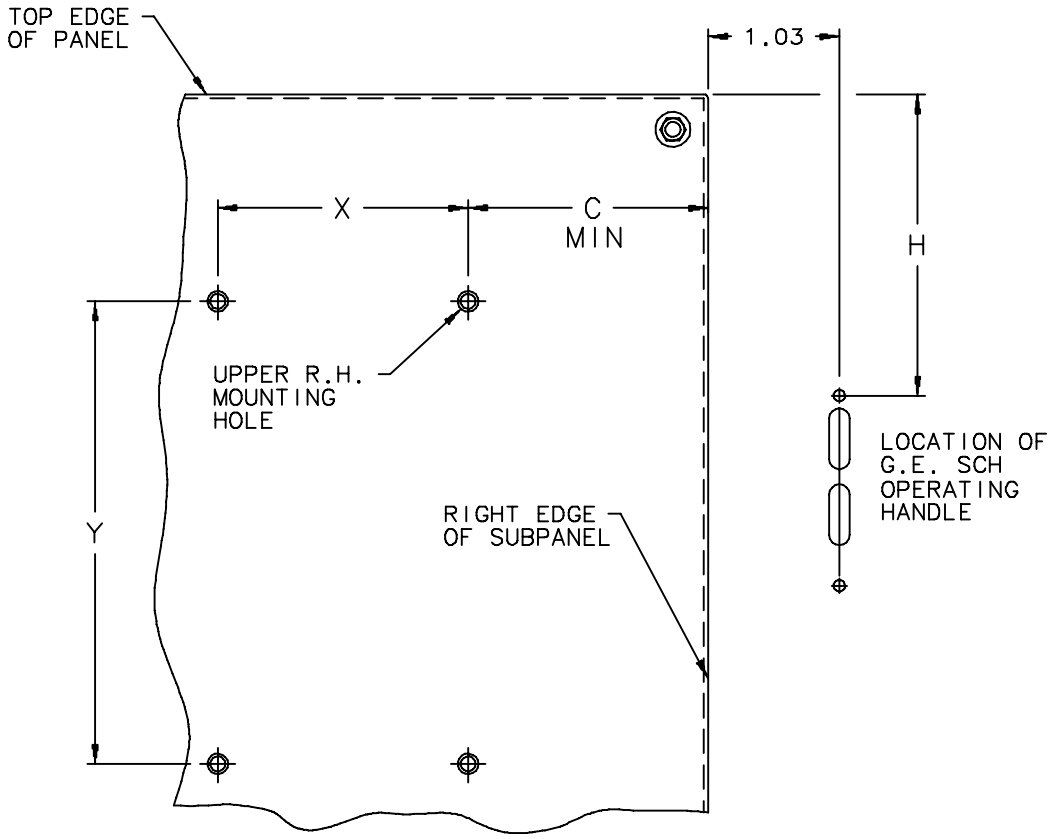


Figure 3 GE

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**
A19 A19S	Wall Mounted Disconnect Enclosure	8.00	7.13
		12.00	10.13

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.

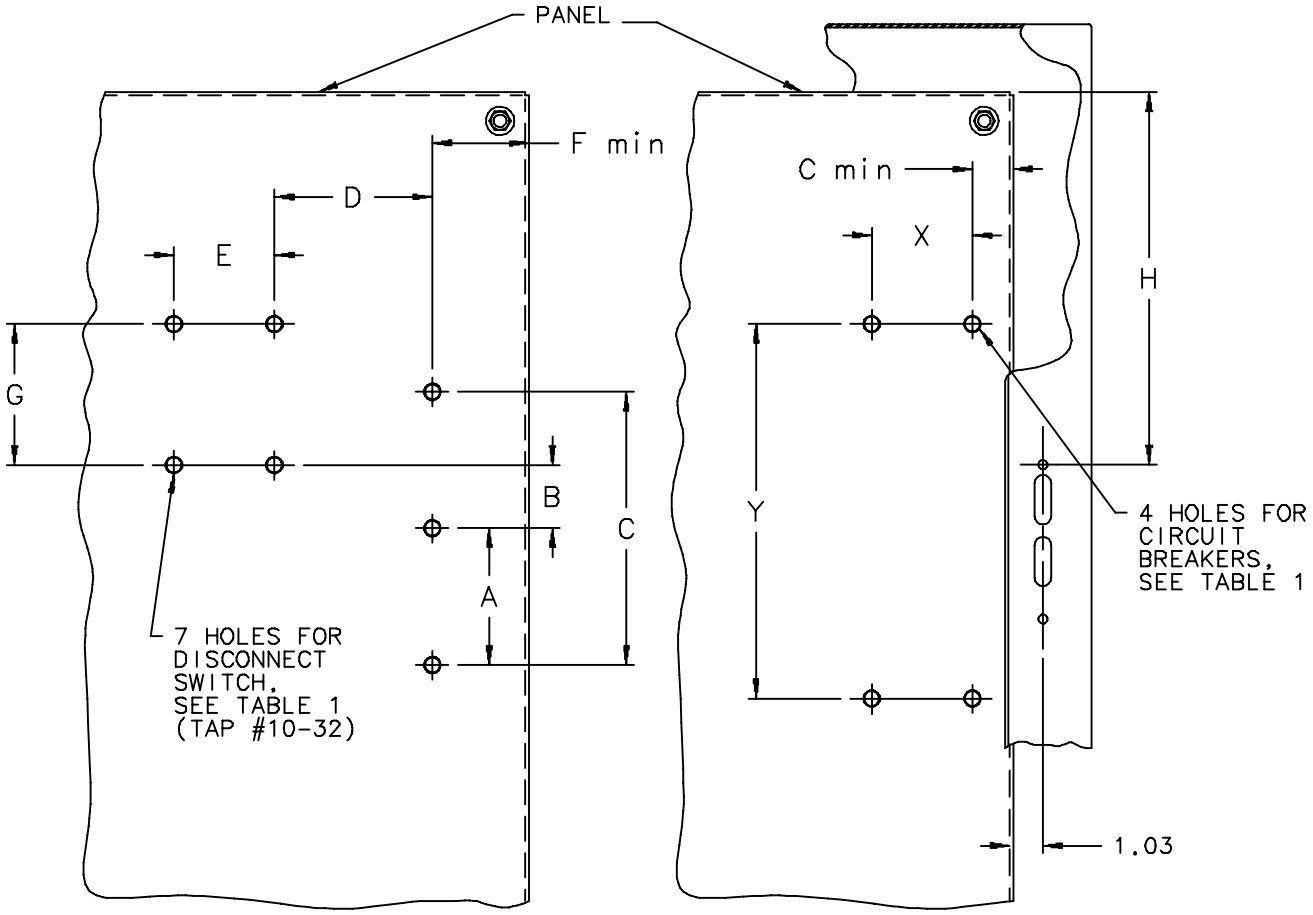


Figure 3 ITE

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**
A19 A19S	Wall Mounted Disconnect Enclosure	8.00	7.13
		12.00	10.13

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.

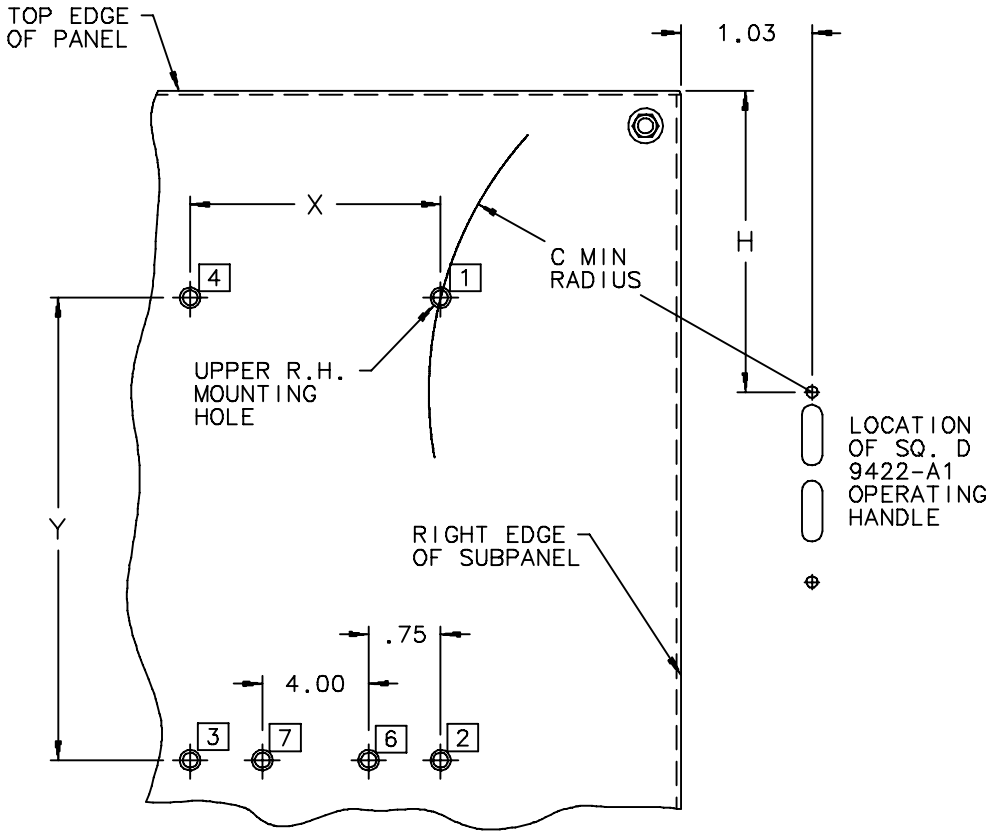


Figure 3 SQ D

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**
A19 A19S	Wall Mounted Disconnect Enclosure	8.00	7.13
		12.00	10.13

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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