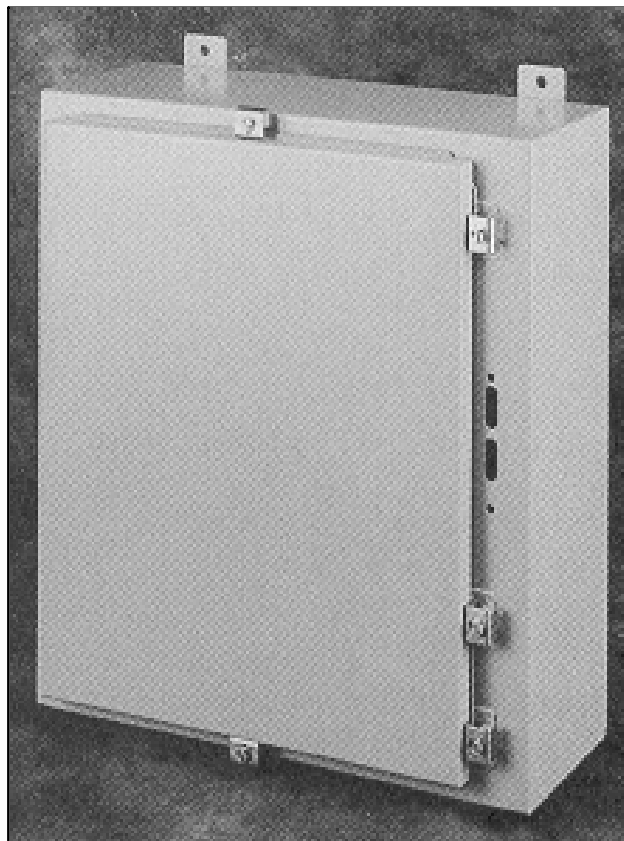


For Variable Depth Disconnect Devices
And For Flexible Cable Disconnect Devices

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 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.
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		
<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 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.

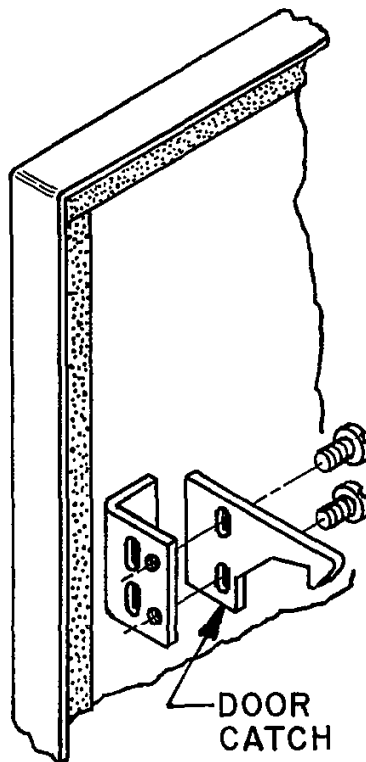


Figure 1

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

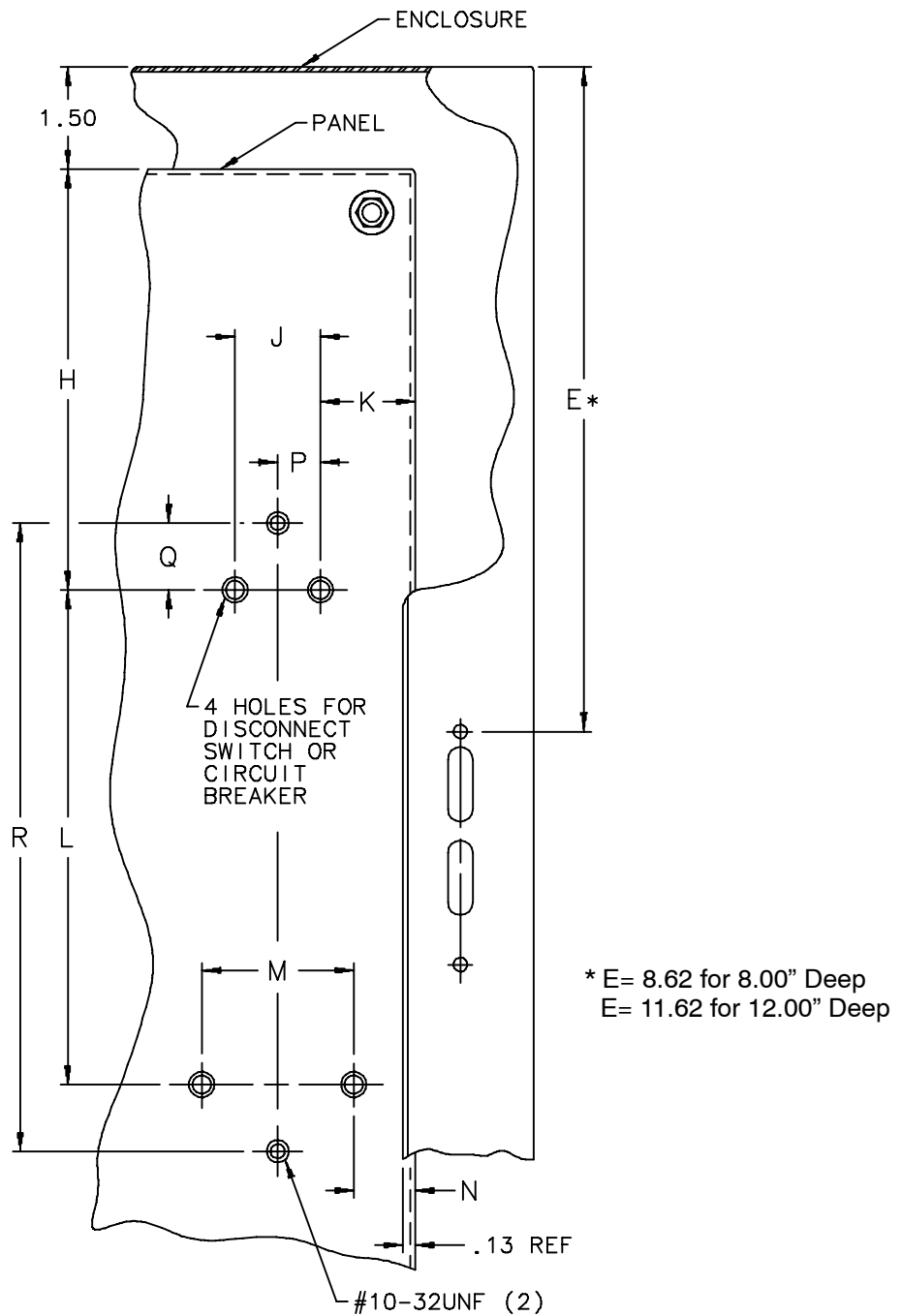


Figure 3

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)	5.28	8.28	1.97	2.56	4.33	3.94	1.56	---	---	---	.159Ø 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	---	---	---	.201Ø 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	---	---	---	.136Ø 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	.201Ø 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	.201Ø 1/4-20 UNC

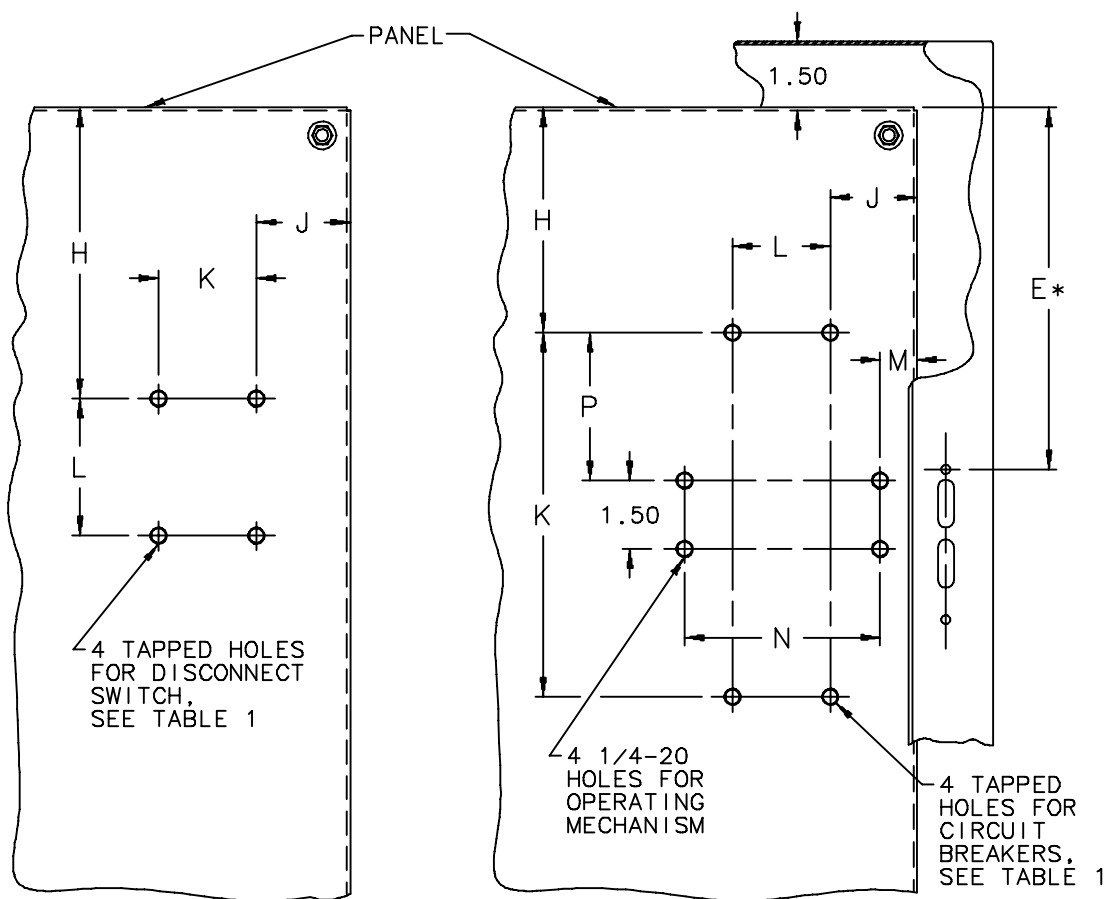
* See A-B Instructions For Locating Fuse Blocks.

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)
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

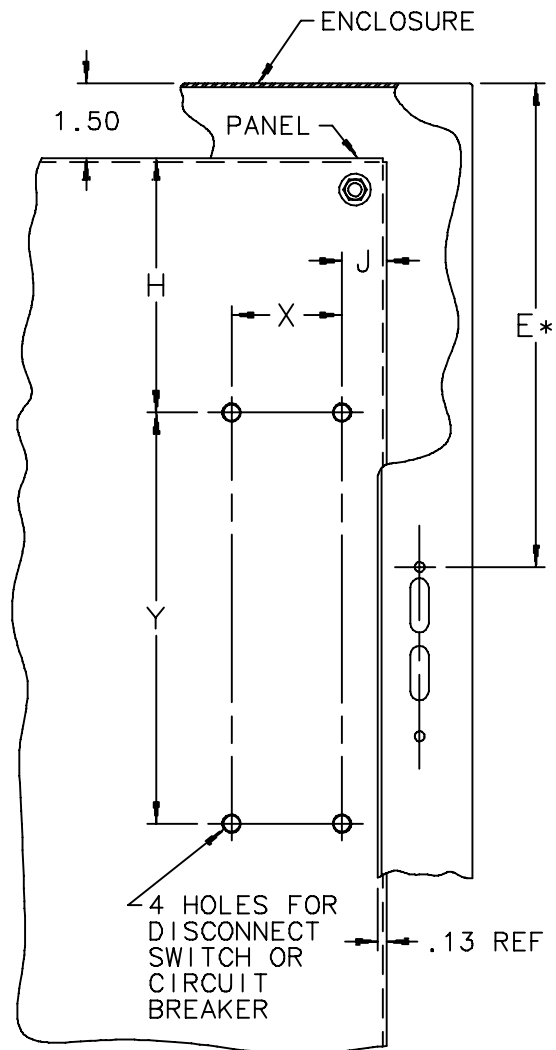
TABLE 1 Sub-Panel Drilling										
Circuit Breaker or Disconnect Switch	Frame Size	H 8" Deep	H 12" Deep	J	K	L	M	N	P	Hole Size
C361NC (30A)	---	5.56	8.56	2.47	4.00	7.13	---	---	---	10-32 UNF
C361SC (30A)	---	5.56	8.56	2.47	4.00	9.75	---	---	---	10-32 UNF
C361ND (60A)	---	5.56	8.56	2.47	4.00	7.13	---	---	---	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**

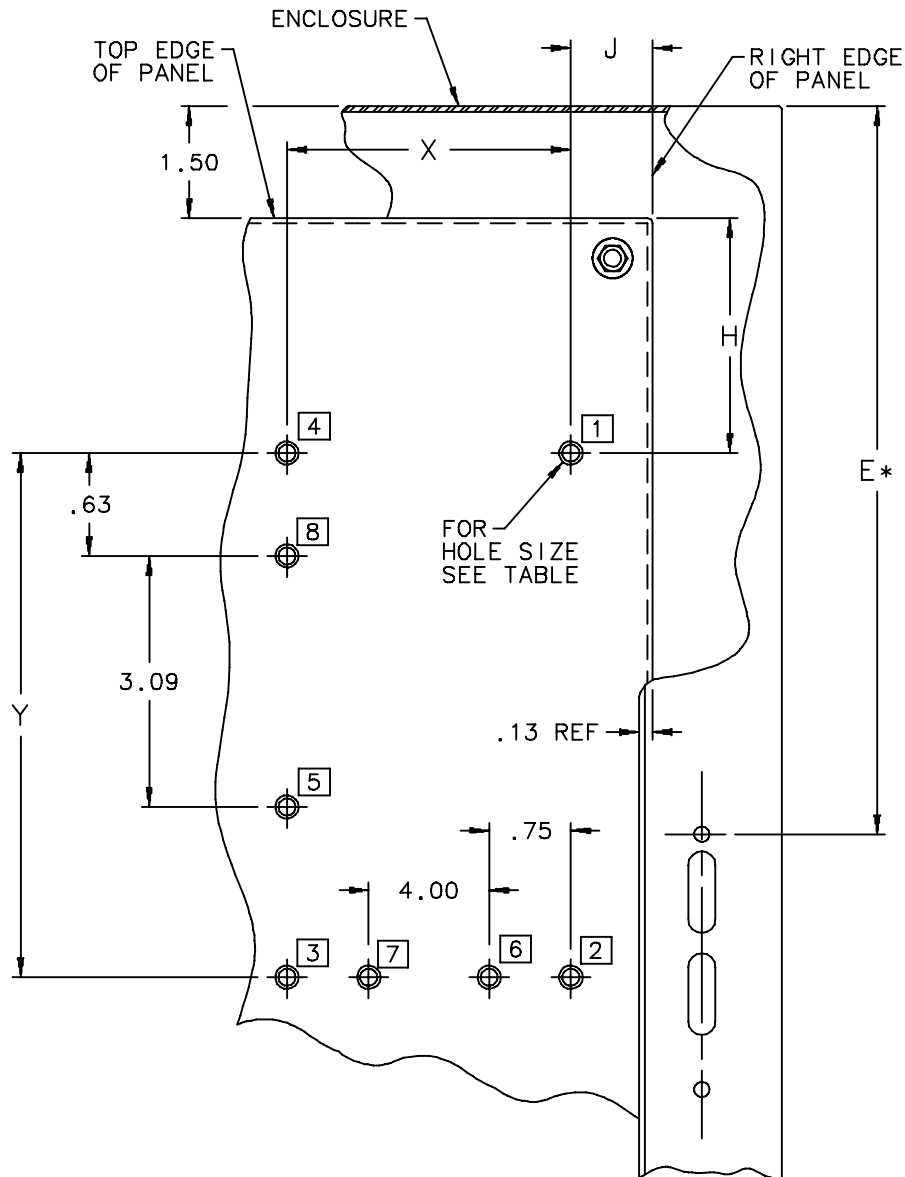
TABLE 1 Sub-Panel Drilling								
G.E. Operating Mechanism	Frame Size	No. Of Holes	Hole Size	H 8" Deep	H 12" Deep	J	X	Y
TDOM1A	QMR-QMW	4	1/4-20	5.50	8.50	.75	3.00	6.75
TDOM1JA	QMR-QMW	4	1/4-20	5.50	8.50	.75	3.00	6.75
TDOM1B	QMR-QMW	4	1/4-20	5.50	8.50	.75	3.00	6.75
TDOM1JB	QMR-QMW	4	1/4-20	5.50	8.50	.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).

Wall-Mounted Disconnect Enclosures
Installation Instructions for Square D 9422
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 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	1,2,5,8	10-24	5.94	8.94	.38	5.13	6.50
TD	4	1,2,4,7	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.

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

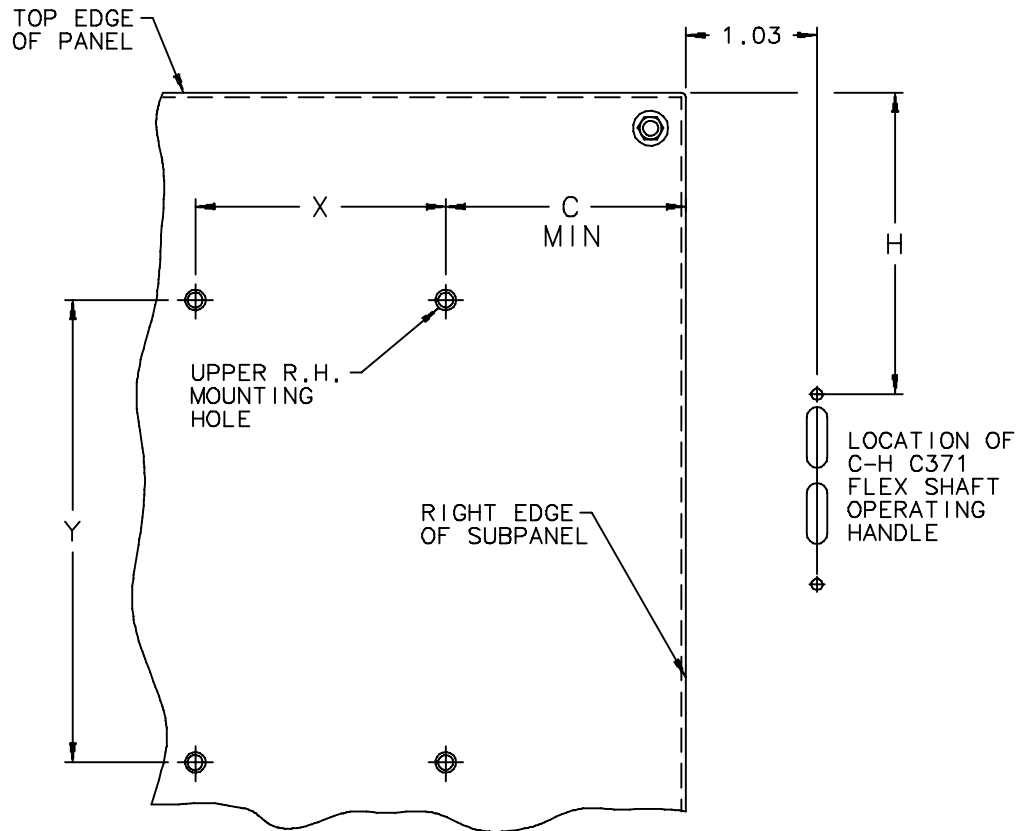


Figure 3 CH

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
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.

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

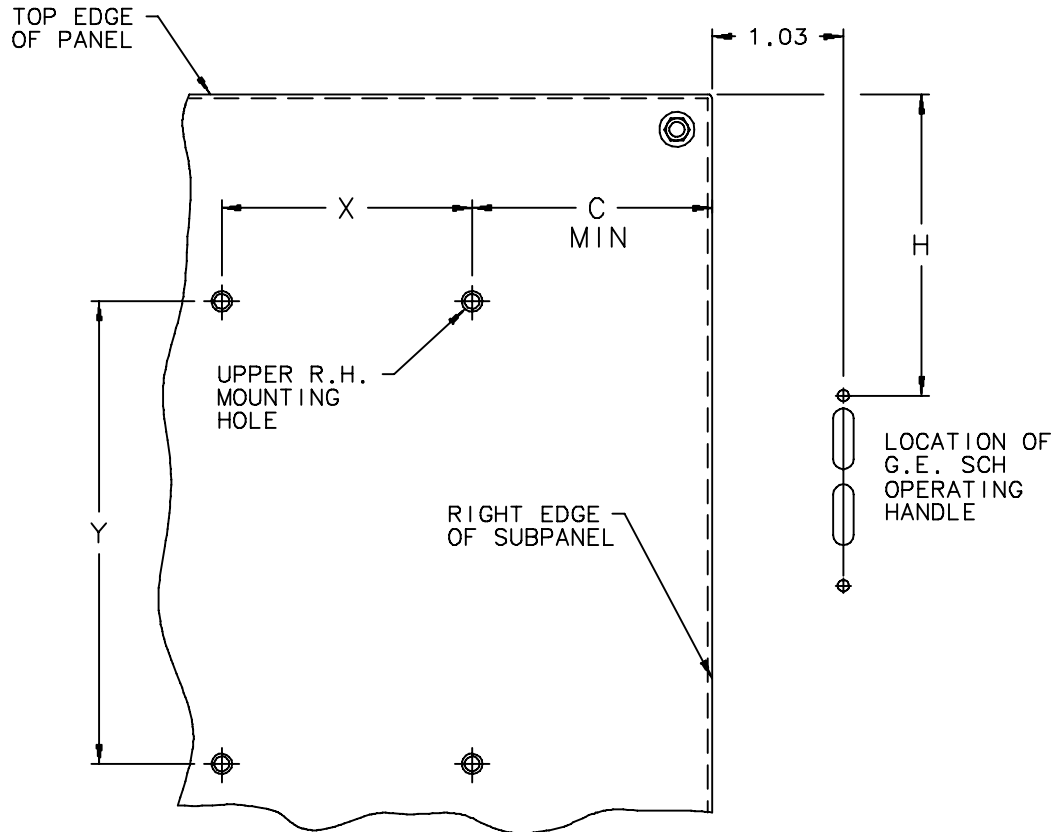


Figure 3 GE

**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.

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

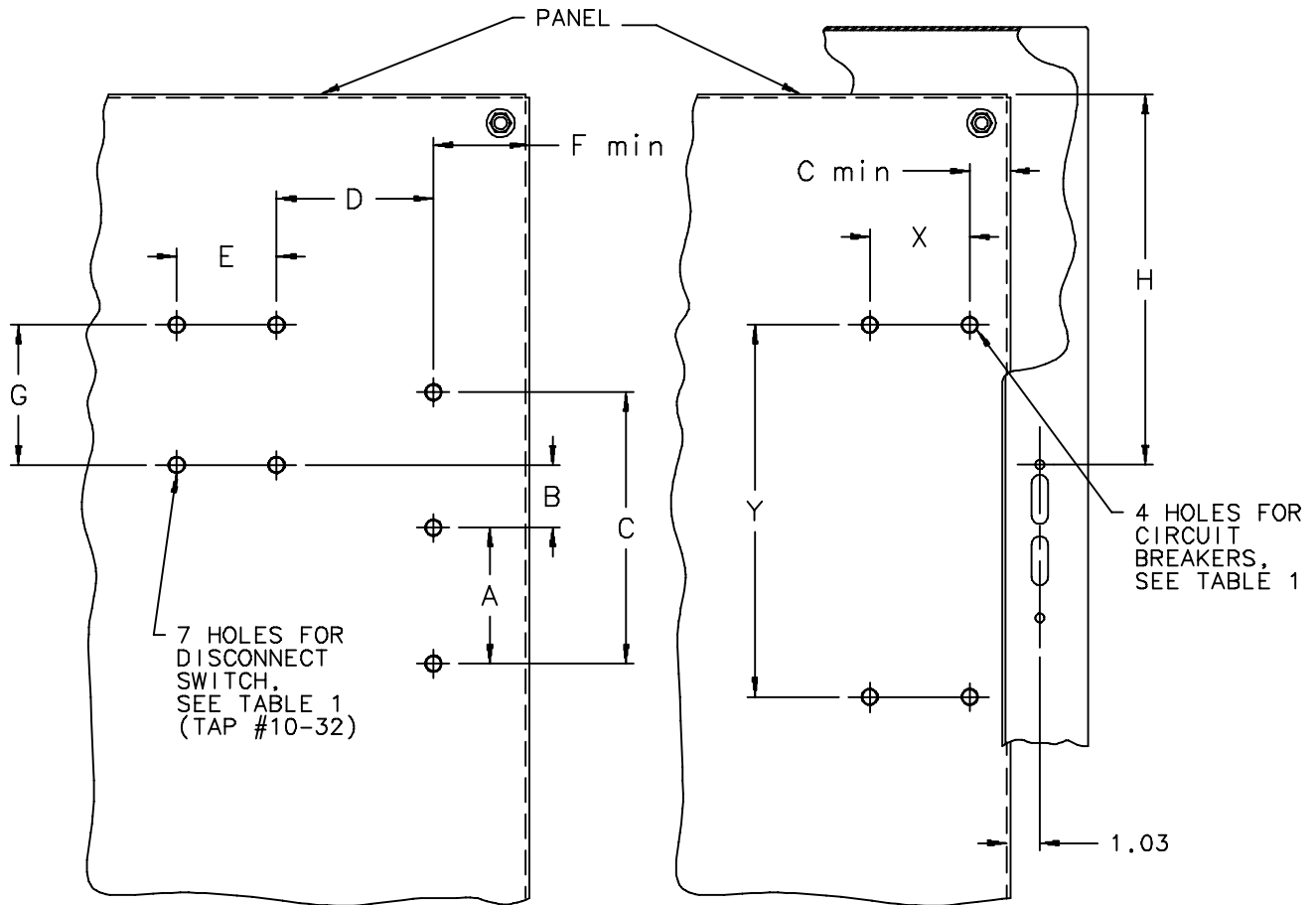


Figure 3 ITE

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.

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

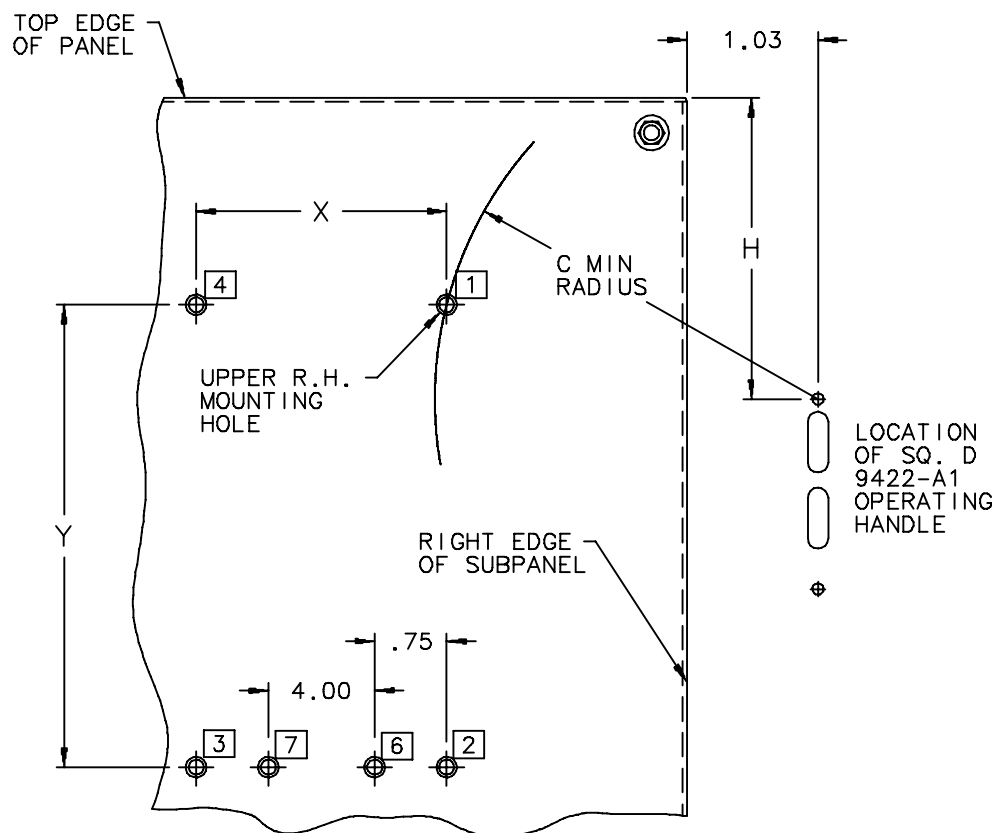


Figure 3 SQ D

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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Bjoernerudveien 24
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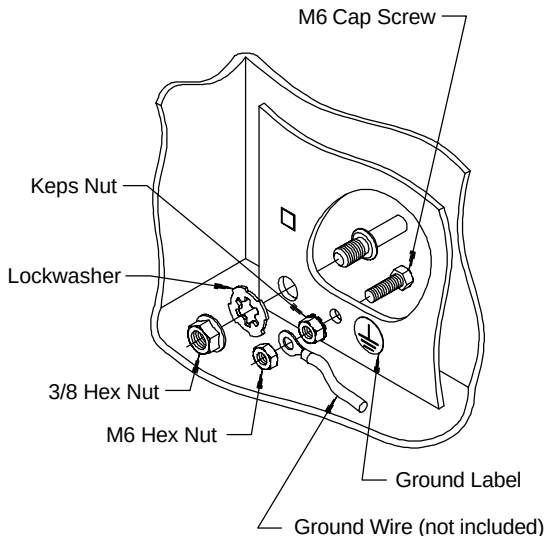
Metric Grounding Kit
Metrischer ErdencInstallationssatz
Kit Fondant Métrique
Kit Que pone a tierra Métrico



A Pentair Company

Hoffman Enclosures Inc.
2100 Hoffman Way
Anoka, MN 55303-1745
(763) 422-2211 Tel
www.hoffmanonline.com

Kit Part Number 87552742

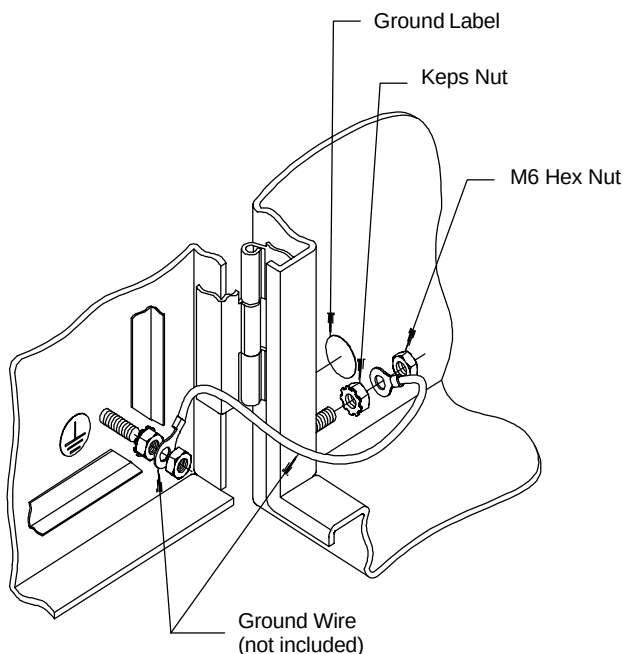


1. Insert the M6x20mm bolt through the hole in the panel as shown.
2. Secure bolt with keps nut. The keps nuts must penetrate through the paint to insure electrical continuity.
3. Attach the ground wire and secure with M6 hex nut as shown.
4. To insure grounding between the panel and the enclosure, install the lockwasher under one of the nuts securing the panel.
5. Attach the included ground label adjacent to the bolt as shown.

1. Setzen Sie den M6x20mm Schraubbolzen durch die Bohrung in der Verkleidung ein, wie gezeigt.
2. Sichern Sie Schraubbolzen mit keps Nuß. Die keps Nüsse müssen durch die Farbe eindringen, um elektrischen Durchgang zu versichern.
3. Bringen Sie den Erdungsdraht an und sichern Sie mit M6 Sechskantmutter, wie gezeigt.
4. Um die Erdung zwischen der Verkleidung und der Einschließung zu versichern, bringen Sie den Federring unter eine der Nüsse an, welche die Verkleidung sichern.
5. Bringen Sie den enthaltenen Grundaufkleber neben dem Schraubbolzen an, wie gezeigt.

1. Passez le boulon de M6x20mm dans le trou dans le panneau comme montré.
2. Fixez le boulon avec l'écrou de keps. Les écrous de keps doivent pénétrer par la peinture pour assurer la continuité électrique.
3. Attachez le fil de masse et le fixez avec l'écrou de sortilège M6 comme montré.
4. Pour assurer fondre entre le panneau et la clôture, installez le frein d'écrou au-dessous de un des écrous fixant le panneau.
5. Attachez l'étiquette au sol incluse à côté du boulon comme montré.

1. Inserte el perno de M6x20mm a través del agujero en el panel según lo demostrado.
2. Asegure el perno con la tuerca de los keps. Las tuercas de los keps deben penetrar a través de la pintura para asegurar continuidad eléctrica.
3. Una el alambre de tierra y asegúrelo con la tuerca de tuerca hexagonal M6 según lo demostrado.
4. Para asegurar poner a tierra entre el panel y el recinto, instale la arandela de cierre debajo de una de las tuercas que aseguran el panel.
5. Una la etiqueta de tierra incluida adyacente al perno según lo demostrado.



1. Secure keys nut on each ground stud. The keys nuts must penetrate through the paint to insure electrical continuity.
 2. Attach the ground wire and secure with the M6 hex nuts as shown.
 3. Attach the included ground labels adjacent to the studs as shown.
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1. Sichern Sie keys Nuß auf jedem Grundbolzen. Die keys Nüsse müssen durch die Farbe eindringen, um elektrischen Durchgang zu versichern.
 2. Bringen Sie den Erdungsdraht an und sichern Sie mit den M6 Sechskantmutter, wie gezeigt.
 3. Bringen Sie die enthaltenen Grundaufkleber neben den Bolzen an, wie gezeigt.
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1. Fixez l'écrou de keys sur chaque goujon moulu. Les écrous de keys doivent pénétrer par la peinture pour assurer la continuité électrique.
 2. Attachez le fil de masse et le fixez avec les écrous de sortilège M6 comme montrés.
 3. Attachez les étiquettes au sol incluses à côté des goujons comme montrés.
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1. Asegure la tuerca de los keys en cada perno prisionero de tierra. Las tuercas de los keys deben penetrar a través de la pintura para asegurar continuidad eléctrica.
 2. Una el alambre de tierra y asegúrelo con las tuercas de tuerca hexagonal M6 según lo demostrado.
 3. Una las etiquetas de tierra incluidas adyacente a los pernos prisioneros según lo demostrado.