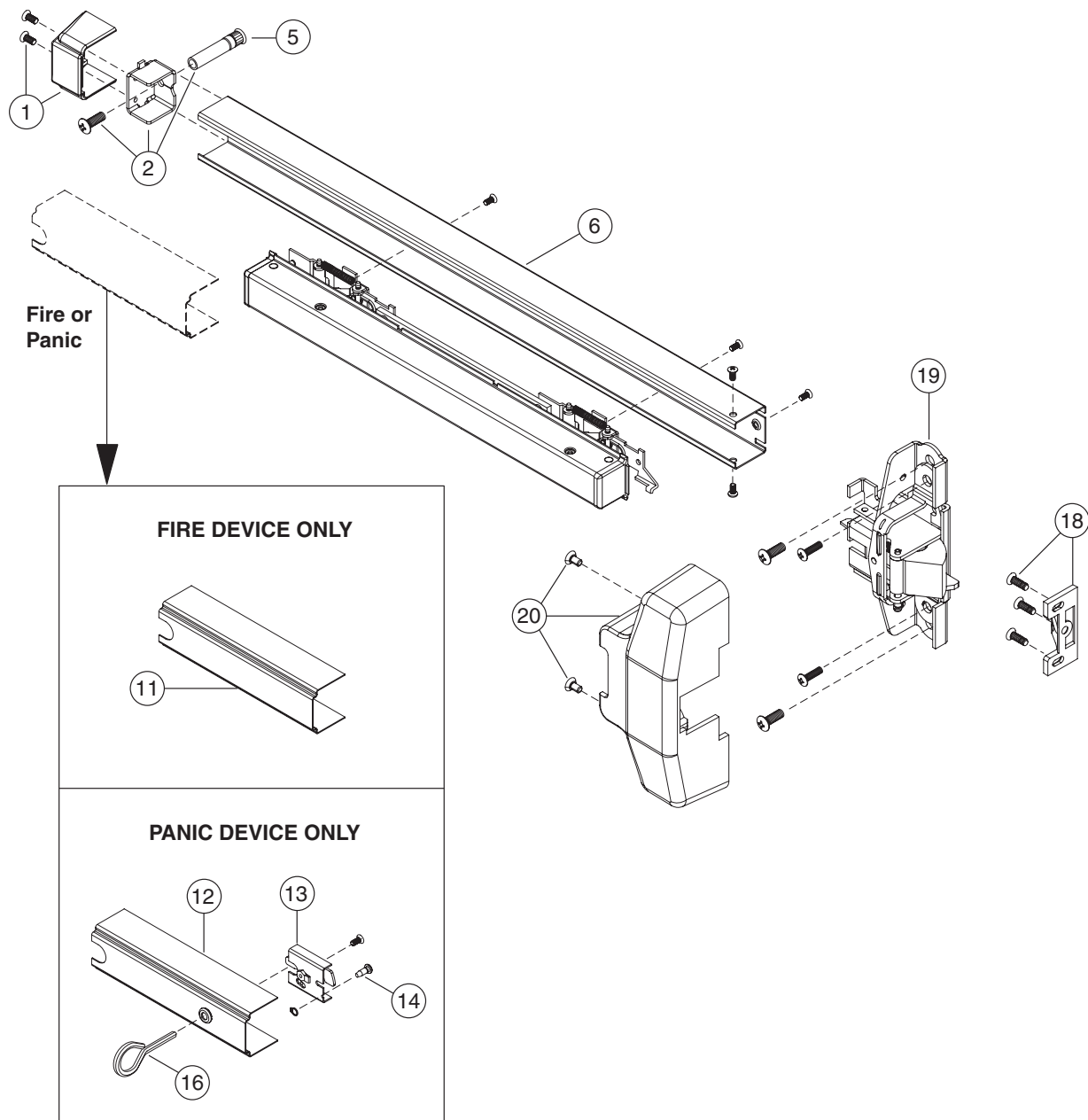


19 and F-19 rim exit device

Fire and panic



19 Series

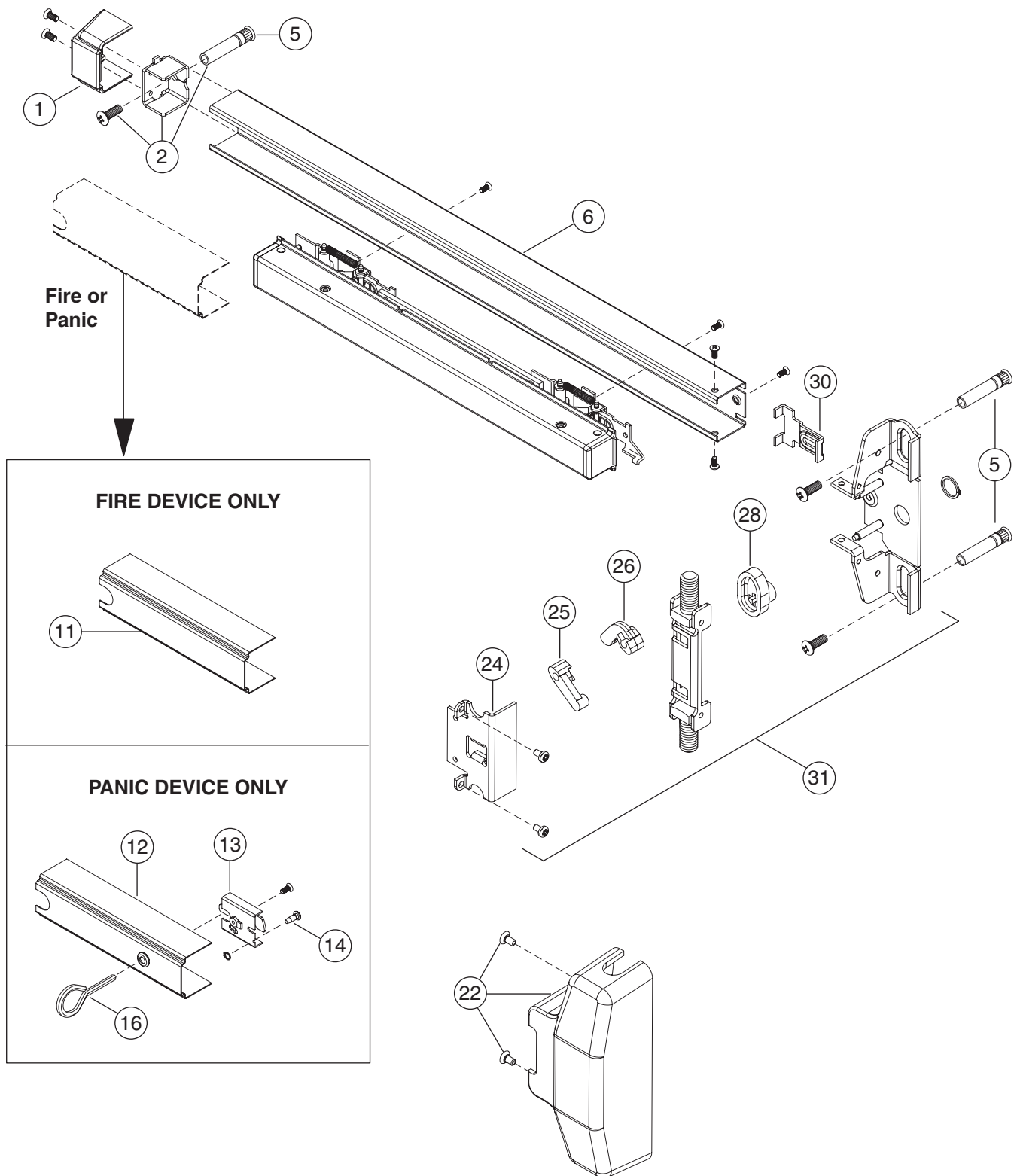
No.	Qty.	Part no.	Description	Notes
1	1	650343	19 Channel End Cap Kit (with screws)	
2	1	650320	19 End Cap Mounting Bracket with SNB	
5	1	4122	Sex Bolt, package of 1, includes machine screw, 1/2 - 20 x 3/4" PPHMS	A
6	1	4107	19 Channel 3' Door	A
	1	4108	19 Channel 4' Door	A
11	1	650360	F-19 Channel Cover Plate 3'	A
	1	650361	F-19 Channel Cover Plate 4'	
12	1	650297	19 Panic Hex Dogging Channel Cover, 4'	A
	1	650303	19 Panic Hex Dogging Channel Cover 3'	A
13	1	610480	19 Panic Dogging Housing	
14	1	060110	19 Panic Dogging Pin (package of 10)	
16	1	060109	19 Panic Hex Dogging Key 7/32" (package of 10)	
18	1	F570	F570 Strike (US19)	
19	1	650307	19-R Center Case Assembly	
		650374	F-19-R Center Case Assembly	
20	1	650384	19-R Center Case Cover Kit (with screws)	
*	1	060123	Electric Option Dogging Screw (package of 10)	
*	1	060124	K/L/TL Trim Lock Nut (package of 10)	
*	1	650328	19-R Mounting Package	
*	1	650329	F-19-R Mounting Package	

* Item(s) not shown

A Specify by finish: US32D or SP28/SP313

19-V and F-19-V surface vertical rod exit device

Panic and fire



19 Series

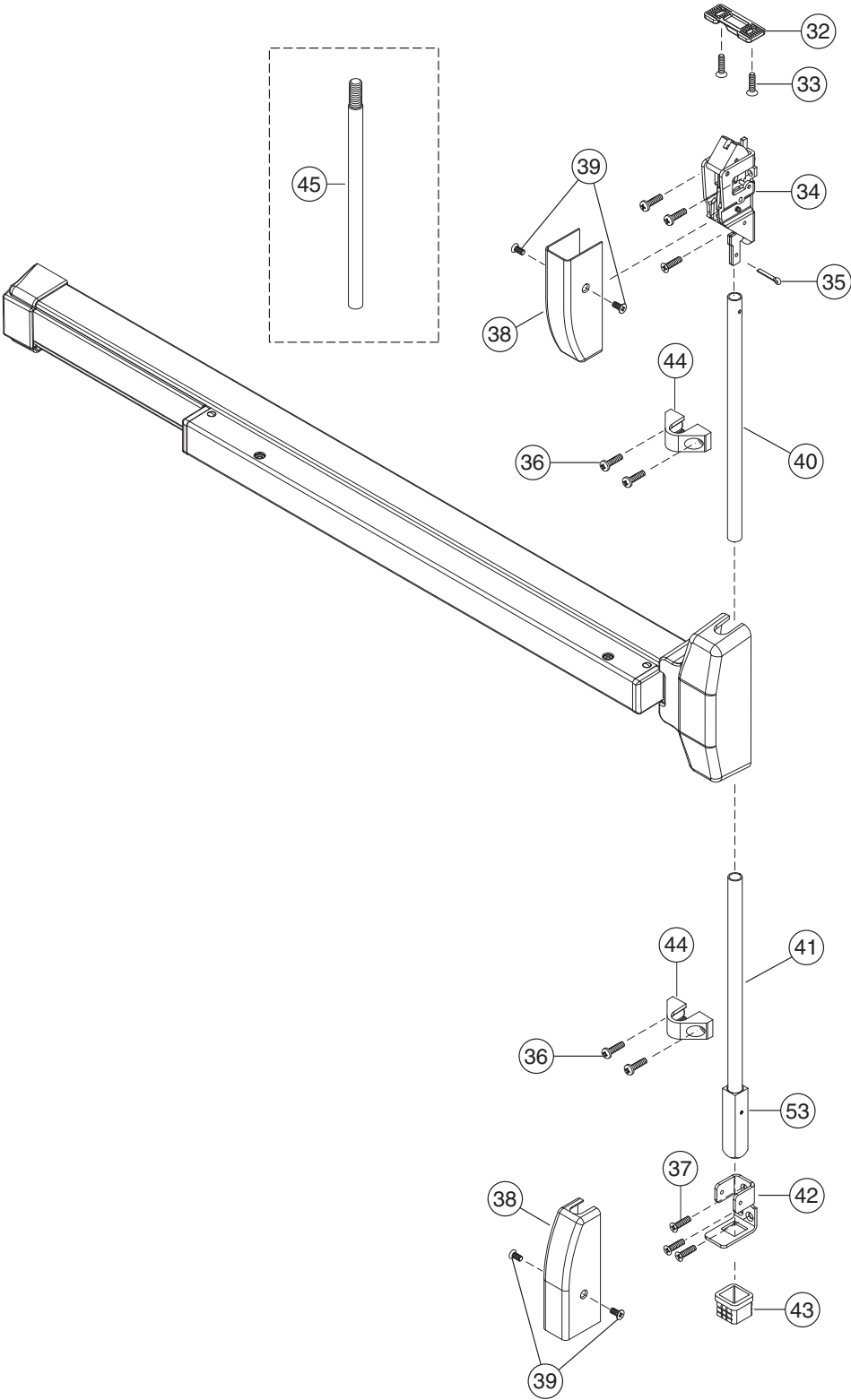
No.	Qty.	Part no.	Description	Notes
1	1	650343	19 Channel End Cap Kit (with screws)	
2	1	650320	19 End Cap Mounting Bracket with SNB	
5	1	4122	Sex Bolt, package of 1, includes machine screw ($\frac{1}{2}$ - 20 x $\frac{3}{4}$ " PPHMS)	A
6	1	4107	19 Channel 3' Door	A
	1	4108	19 Channel 4' Door	A
11	1	650360	F-19 Channel Cover Plate 3'	A
	1	650361	F-19 Channel Cover Plate 4'	A
12	1	650297	19 Panic Hex Dogging Channel Cover 4'	A
	1	650303	19 Panic Hex Dogging Channel Cover 3'	A
13	1	610480	19 Panic Dogging Housing	
14	1	060110	19 Panic Dogging Pin (package of 10)	
16	1	060109	19 Panic Hex Dogging Key $\frac{7}{32}$ " (package of 10)	
22	1	650385	19-V Center Case Cover Kit (with screws)	
25	1	650392	19-V Center Case Slidebar Lever	
26	1	650391	19-V Center Case Drawbar Lever	
28	1	650393	19-V Center Case Retractor Cam	
30	1	650390	19-V Drawbar	
31	1	650308	19-V Center Case LHR	
	1	650309	19-V Center Case RHR	
*	1	650330	19-V Mounting package	
*	1	650331	F-19-V Mounting package	

* Item(s) not shown

A Specify by finish: US32D or SP28/SP313

19-V and F-19-V surface vertical rods and latch cases

Panic and fire



19 Series

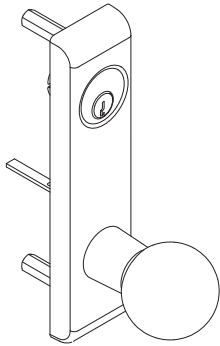
No.	Qty.	Part no.	Description	Notes
32	1	3788	Vertical Rod Top Strike	*
33	2	660002	#10 x 1¼" FPHSMS	
34	1	650389	19-V Top Latch Case	
35	1	060111	⅛" x 1" Cotter Key package of 10	
36	1	060114	Rod Guide Screws package of 10	
37	1	060113	Latch Screw package of 10	
38	2	650388	19-V Latch Case Cover Kit (with screws)	A
39	1	650337	19-V Latch Case Cover Mounting package of 4	
40	1	4286	19 Top Rod	
41	1	4288	19 Bottom Rod	
42	1	650387	Bottom Bolt Guide (screws not included)	
43	1	2130	Vertical Rod Bottom Strike	
44	2	650386	Rod Guide Kit (with screws)	
45	1	650006	19/24/25/XX-V Extension Rod 12"	A
45	1	650007	19/24/25/XX-V Extension Rod 24"	A
45	1	650008	19/24/25/XX-V Extension Rod 36"	A
53	1	610045	(F)19-V Bottom Bolt Assembly	

* For Flush Transom applications, specify part number 4215-019 angle bracket

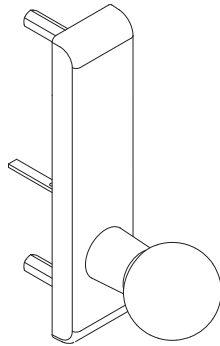
A Specify by finish: US32D or SP28/SP313

19 Series: control trim, knob (911) and lever (912) for rim and vertical device

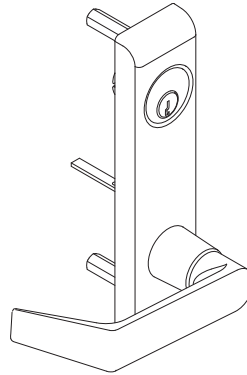
911K, 911K-NL, 912L-BE and 912L-NL



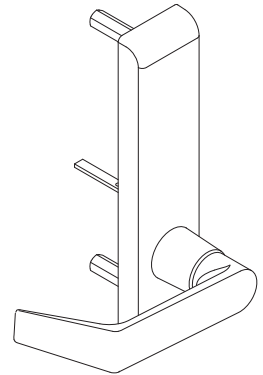
911K
911K-NL



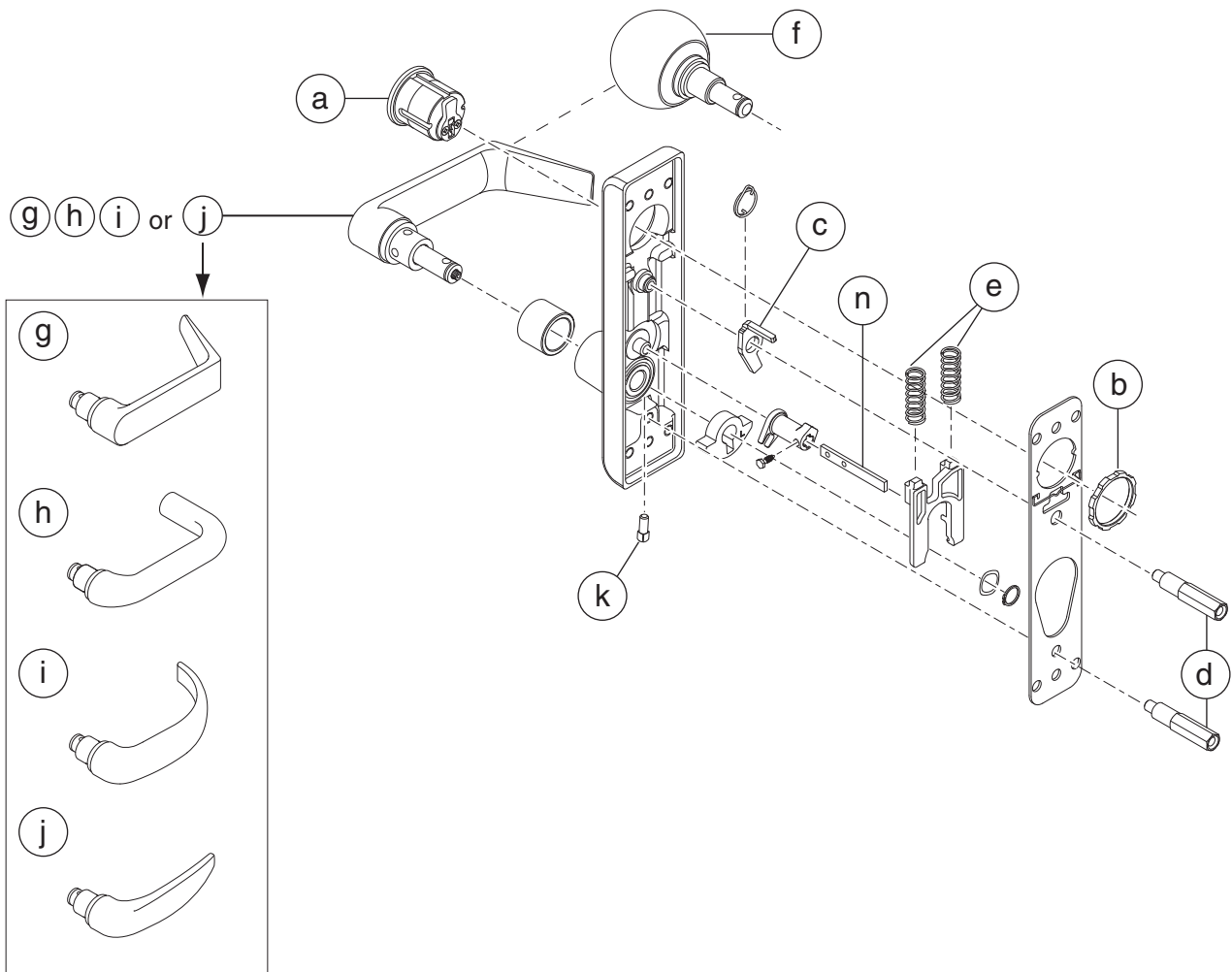
911K-BE



912L
912L-NL



912L-BE



19 Series

No.	Qty.	Part no.	Description	Notes
a	1	986	1¼ " Mortise Cylinder (US3, US4, US10, US10B, US26, US32, US32D)	A
b	1	050526	Cylinder Locknut package	
c	1	650314	700/900 Locking Plate	
d	2	4270	900 Series Hex Stud	
e	1	661565	700/900 Series Lever Actuator Spring	
	1	661587	700/900 Series Knob Actuator Spring	
f	1	600298	711 Knob Assembly	A
g	1	600299	712 Dane Lever	A
h	1	600300	712 Sutro Lever	A
i	1	600301	712 Quantum Lever	A
j	1	600337	712 Avalon Lever	A
k	1	600283	Shear Pin, package of 5	
n	1	650371	Tailpiece package 1¾ " Door	
	1	650372	Tailpiece package 2¼ " Door	

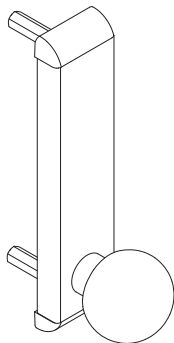
A Specify by finish shown

Specifications:

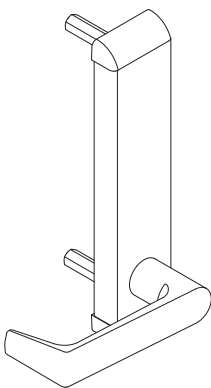
Escutcheon:	1¾" x 7¼"	
Knob Projection:	4"	
Lever Projection:	Dane	2¼"
	Quantum	3⅛"
	Sutro	2⅜"
	Avalon	3¼"

19 Series: control trim, knob (911) and lever (912) dummy for rim and vertical device

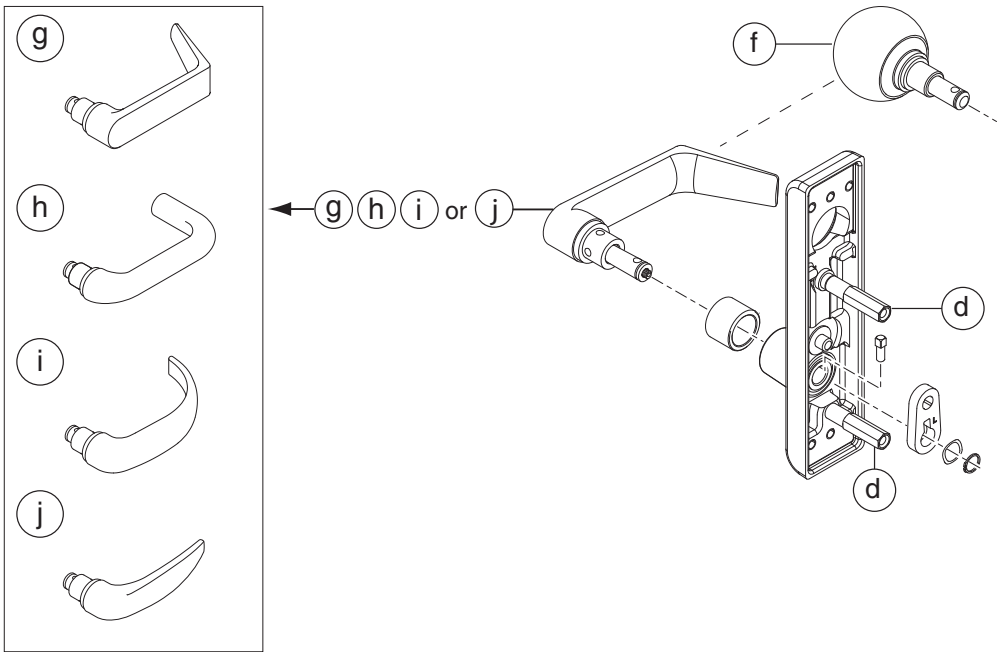
911K-DT and 912L-DT



911K-DT



912L-DT



No.	Qty.	Part no.	Description	Notes
d	2	4270	900 Series Hex Stud	
f	1	600298	711 Knob Assembly	A
g	1	600299	712 Dane Lever	A

No.	Qty.	Part no.	Description	Notes
h	1	600300	712 Sutro Lever	A
i	1	600301	712 Quantum Lever	A
j	1	600337	712 Avalon Lever	A

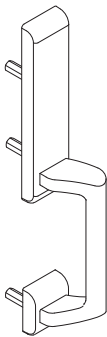
A Specify by finish shown

Specifications:

Escutcheon:	1¾" x 7¼"
Knob Projection:	4"
Lever Projection:	Dane 2¼"
	Quantum 3⅛"
	Sutro 2⅜"
	Avalon 3¼"

19 Series: control trim (918) for rim and vertical device

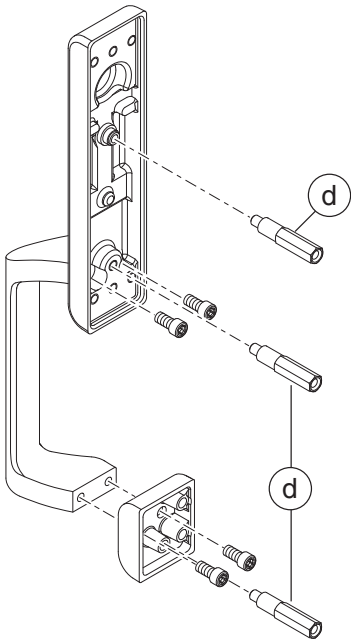
918DT and 918NL



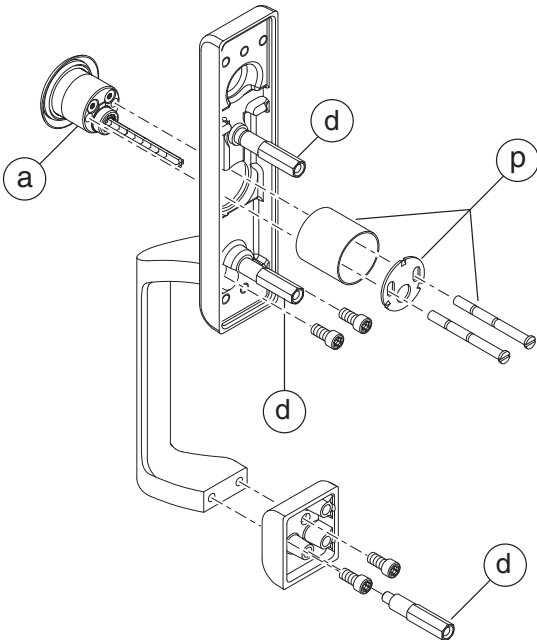
918DT



918NL



918DT



918NL

No.	Qty.	Part no.	Description	Notes
a	1	951	Rim Cylinder (US3, US4, US10, US10B, US26, US32, US32D)	A
d	3	4270	900 Series Hex Stud	
p	1	600166	918NL Cylinder Mounting package	

A Specify by finish shown

Specifications:

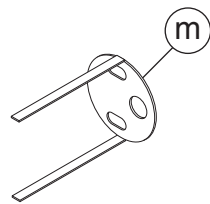
Escutcheon: 1¾" x 7¼"
Projection: 2"
Overall Length: 13"

19 Series

19 Series: Trident trim* (920) and Centron trim* (917, 930)

Trident: 920DT, 920NL

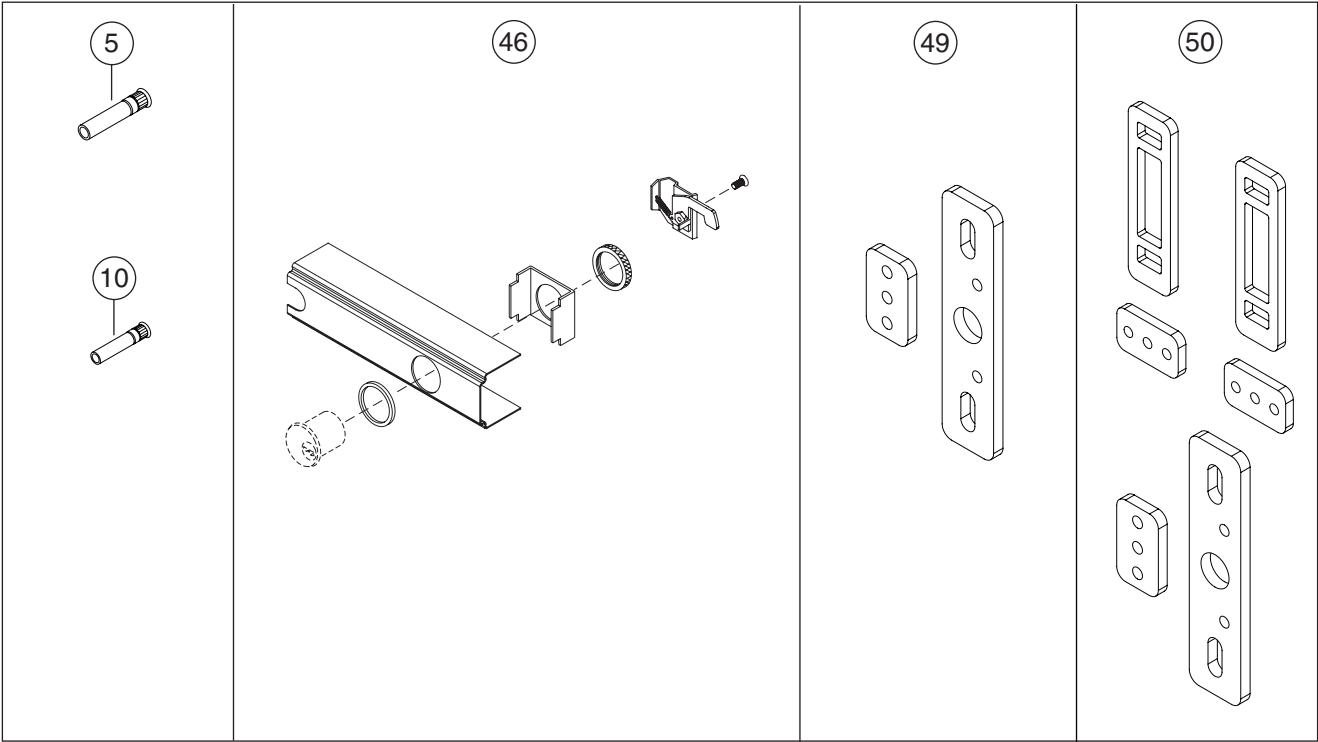
Centron: 917DT, 930EO, 930DT, 930NL and 930C



No.	Qty.	Part no.	Description	Notes
m	1	600315	920/930 Cylinder Anchor	

* Item(s) not shown

19 Series: optional equipment



No.	Qty.	Part no.	Description	Notes
5	1	4122	Sex Bolt, package of 1, includes machine screw (1/2" - 20 x 3/4" PPHMS)**	A
10	1	2729P	Sex Bolt, package of 1, includes machine screw (#10-24 x 3/4" PPHMS)***	A
	1	2729F	Sex Bolt, package of 1, includes machine screw (#10-24 x 3/4" PPHMS)***	A

** Sold individually, for center case (2)

*** Sold individually, for surface vertical latches (3)

No.	Qty.	Part no.	Description	Notes
46	1	650060	19 Cylinder Dogging Kit 3' device	B
	1	650063	19 Cylinder Dogging Kit 4' device	B
49	1	650022	19-R 1/4" Rim Shim Kit	
50	1	650023	19-V 1/4" Surface Vertical Shim Kit	

A Specify by finish: US10B or US26D

B Specify by finish: US28 or SP313

VERIFICACIÓN DE PIEZAS



1) ASEGÚRESE QUE SE ESTÁ UTILIZANDO EL DISPOSITIVO CORRECTO.
2) ASEGÚRESE QUE TODAS LAS PIEZAS NECESARIAS ESTÉN A LA MANO.
NOTA: LA LISTA NO MUESTRO TODAS LAS POSIBLES APLICACIONES

4) Paquete de tornillos para el dispositivo de incendio Ménsula de Montaje (Contenido: 1 pieza) Perno Hexagonal - 1/4" - 20 (Contenido: 3 piezas) 1/4" - 20 TFMHS (Contenido: 1 pieza) #10-24 x 19mm FPHMS (Contenido: 2 piezas) Tapa del extremo de Canal (Contenido: 1 pieza) #10-24 x 10mm UFPHMS con refuerzo de nylon (Contenido: 2 piezas) #10-24 x 19mm FPHMS (Contenido: 2 piezas) #8-32 x 8mm UFPHMS con refuerzo de nylon (Contenido: 2 piezas)		4) Paquete de tornillos para el dispositivo de emergencia llave exagonal (Contenido: 1 pieza) Ménsula de Montaje (Contenido: 1 pieza) Perno Hexagonal - 1/4" - 20 (Contenido: 3 piezas) 1/4" - 20 TFMHS (Contenido: 1 pieza) #10 X 32mm FPHMS (Contenido: 2 piezas) Tapa del extremo de Canal (Contenido: 1 pieza) #10-24 x 10mm UFPHMS con refuerzo de nylon (Contenido: 2 piezas) #10-24 x 19mm FPHMS (Contenido: 2 piezas) #8-32 x 8mm UFPHMS con refuerzo de nylon (Contenido: 2 piezas)		1) (F) Dispositivo 19-R Nota: El dispositivo puede utilizarse con instalaciones a la derecha o a la izquierda. 560 PANIC STD F-570 FIRE STD 2) Contra del cerrojo 560 PANICO FUEGO ESTÁNDAR F-570 Contras de cerrojo opcionales 571 571-A 565	
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4) ASEGÚRESE QUE LA BANDA LATERAL EXTERIOR (SI SE ESTÁ UTILIZANDO) HA SIDO PROVISTA Y QUE TENGA LA ORIENTACIÓN IZQUIERDA O DERECHA CORRECTA.



1 PARTS CHECK

- 1) MAKE SURE THE CORRECT DEVICE IS BEING USED.
 - 2) MAKE SURE ALL NEEDED PARTS ARE ON HAND.
- NOTE: LIST DOES NOT REFLECT ALL POSSIBLE APPLICATIONS.

1) (F) 19-R DEVICE NOTE: DEVICE IS NON-HANDED 2) STRIKE 560 PANIC STD F-570 FIRE STD OPTIONAL PANIC STRIKES 565 571 571-A		4) SCREW PACK FOR PANIC DEVICE DOGGING KEY (1 QTY.) MOUNTING BRACKET (1 QTY.) SEX BOLT 1/4"-20 THREAD (3 QTY.) 1/4" - 20 x 3/4" TPHMS (1 QTY.) #10 x 1-1/4" FPHSMS (2 QTY) CHANNEL END CAP (1 QTY.) #10-24 x 3/8" UFPHMS w/NYLON PATCH (2 BLACK) #10-24 x 3/4" PPHMS (2 QTY) #8-32 x 5/16" UFPHMS w/NYLON PATCH (2 QTY)		4) SCREW PACK FOR FIRE DEVICE MOUNTING BRACKET (1 QTY.) SEX BOLT - 1/4"-20 THREAD (3 QTY.) 1/4" - 20 x 3/4" TPHMS (1 QTY.) #10 -24x3/4" FPHMS (2 QTY) CHANNEL END CAP (1 QTY.) #10-24 x 3/8" UFPHMS w/NYLON PATCH (2 BLACK) #10-24 x 3/4" PPHMS (2 QTY) #8-32 x 5/16" UFPHMS w/NYLON PATCH (2 QTY)	
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- 4) MAKE SURE OUTSIDE TRIM (IF BEING USED) HAS BEEN PROVIDED AND IS THE CORRECT HANDING.

2 DOOR LAYOUT

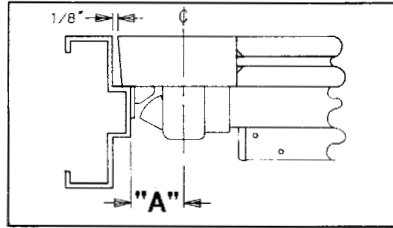
(NOTE: FOR FACTORY PREPARED DOORS, VERIFY LAYOUT.)

- 1) DOOR MUST BE FITTED AND HUNG PROPERLY BEFORE PROCEEDING.
- 2) MULLION, IF BEING USED, SHOULD BE INSTALLED.
- 3) MARK VERTICAL ϕ AND DEVICE REF. ϕ ON DOOR AND FRAME. (SEE FIGURES & CHARTS BELOW)

A) VERTICAL ϕ : SINGLE DOOR APPLICATION

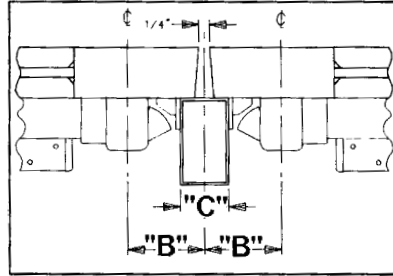
STRIKE	INSTALLED	MINIMUM	"A"
560*	SURFACE	3-1/2"	1-5/8"
565	SURFACE	2-7/8"	1-7/16"
565	RECESSED	1-3/4"	15/16"
F-570*	SURFACE	3-1/2"	1-5/8"

* - COVERS 161 CUT OUT (ANSI A115.2 STOCK PREP)



B) VERTICAL ϕ : DOUBLE DOOR APPLICATION WITH MULLION

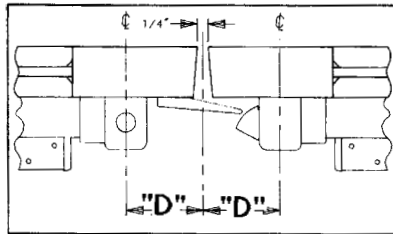
STRIKE	INSTALLED	MINIMUM	"B"	"C"
560	2923 MULLION	3-1/2"	2-3/8"	1-1/2"
560	4023 MULLION	3-3/4"	2-5/8"	2"
565	2923 MULLION	2-7/8"	2-3/16"	1-1/2"
565	4023 MULLION	3-1/8"	2-7/16"	2"
F-570	F-4023 MULLION	3-1/2"	2-5/8"	2"



B) VERTICAL ϕ : DOUBLE DOOR APPLICATION WITH 19 VERTICAL (CANNOT BE USED ON FIRE DOOR APPLICATIONS)

STRIKE	INSTALLED	MINIMUM	"B"
571	19 VERTICAL	3"	2-5/16"
571-A	19 VERTICAL	2-1/2"	1-13/16"

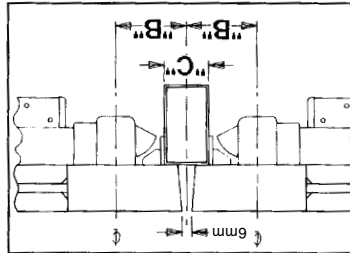
NOTE: 571 & 571-A ARE NOT APPROVED FOR FIRE RATED APPLICATIONS



NOTA: LOS MODELOS 571 Y 571-A NO ESTÁN APROBADOS PARA APLICACIONES CONCERNIENTES A SALIDAS DE EMERGENCIA EN CASO DE INCENDIOS.

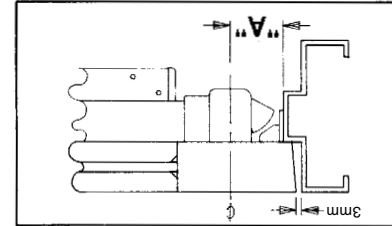
571-A	19 VERTICAL	64mm	46mm
571	19 VERTICAL	76mm	59mm
CERROJO CONTRA DE	INSTALADO CON	MÍNIMA PESTILLO VERTICAL LA PARED A LA	"B" RECESO

C) VERTICAL LÍNEA DE CENTRO ϕ APLICACIÓN EN PUERTA DOBLE CON VERTICAL 19 (NO PUEDE UTILIZARSE EN PUERTA DE EMERGENCIA DE INCENDIOS)



F-570	F-4023 ENTREPAÑO	89mm	67mm	51mm
565	4023 ENTREPAÑO	79mm	62mm	51mm
565	2923 ENTREPAÑO	73mm	56mm	38mm
560	4023 ENTREPAÑO	95mm	67mm	51mm
560	2923 ENTREPAÑO	89mm	60mm	38mm
CERROJO CONTRA DE	INSTALADO CON	MÍNIMA PESTILLO VERTICAL LA PARED A LA	"B" RECESO	"C" ANCHO

B) VERTICAL LÍNEA DE CENTRO ϕ DE APLICACIÓN EN PUERTA DOBLE CON ENTREPAÑOS



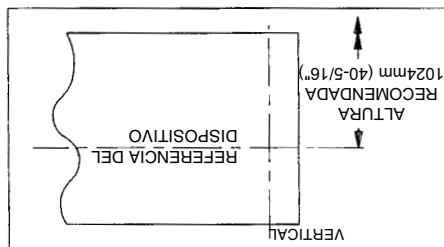
F-570*	SUPERFICIE EMBUITO	89mm	45mm	41mm
565	SUPERFICIE EMBUITO	73mm	37mm	37mm
560*	SUPERFICIE EMBUITO	89mm	41mm	41mm
DE CERROJO CONTRA	INSTALADA EN	MÍNIMA PESTILLO VERTICAL LA PARED A LA	"A" RECESO	"C" ANCHO

A) VERTICAL LÍNEA DE CENTRO ϕ DE APLICACIÓN EN PUERTA SENCILLA

- 1) LA PUERTA DEBE ESTAR EQUIPADA Y DEBIDAMENTE MONTADA ANTES DE PROCEDER.
 2) LOS ENTREPAÑOS, SI SE UTILIZAN, DEBE ESTAR INSTALADOS.
 3) MARQUE LA MEDIANA VERTICAL Y LA MEDIANA DE REFERENCIA EN LA PUERTA Y EL MARCO. (CONSULTE LAS ILUSTRACIONES Y TABLAS SIGUIENTES).
- (NOTA: PARA LAS PUERTAS PREPARADAS POR LA FÁBRICA, VERIFIQUE LA DISPOSICIÓN.)

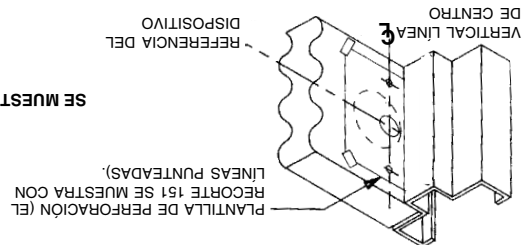
DISPOSICIÓN DE LA PUERTA

3 PREPARACIÓN DE LA PUERTA Y LOS HERRAJES



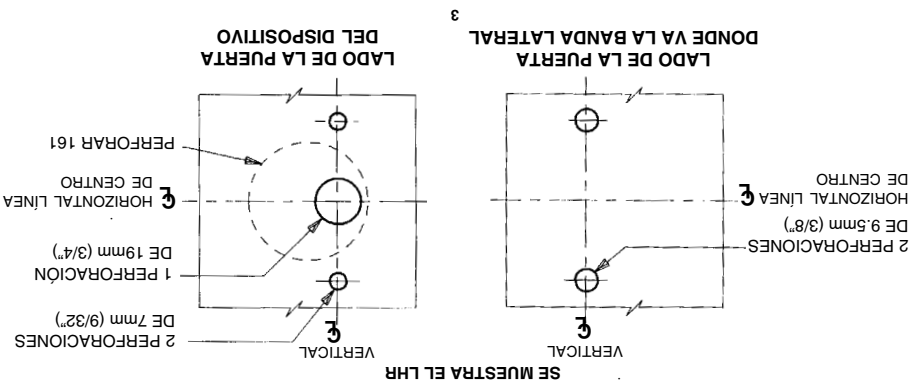
D) REFERENCIA DEL DISPOSITIVO (HORIZONTAL)

1) PEGUE LA PLANTILLA DE PERFORACIÓN SOBRE LA PUERTA UTILIZANDO LAS VERTICALES LÍNEA DE CENTRO **3** DE DISPOSITIVO (CONSULTE A **2**). MARQUE CON EL PUNZÓN Y PERFORE LOS AGUJEROS PARA EL MONTAJE DEL DISPOSITIVO. DESPUÉS DEL PERFORAR LOS AGUJEROS,Quite LA PLANTILLA DE PERFORACIÓN.



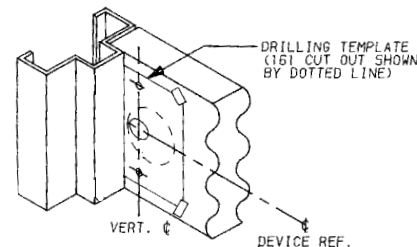
SE MUESTRA EL LHR

2) SI USA BANDA LATERAL, PREPARE LA PUERTA UTILIZANDO UNA HOJA SEPARADA DE DIRECCIÓN DE BANDA LATERAL PARA LA INSTALACIÓN DEL PERNO HEXAGONAL PERFORE AGUJEROS DE 9.5 mm (3/8") SOLAMENTE DEL LADO DE LA BANDA LATERAL DE LA PUERTA. (CONSULTE EL DIAGRAMA QUE APARECE ABAJO).



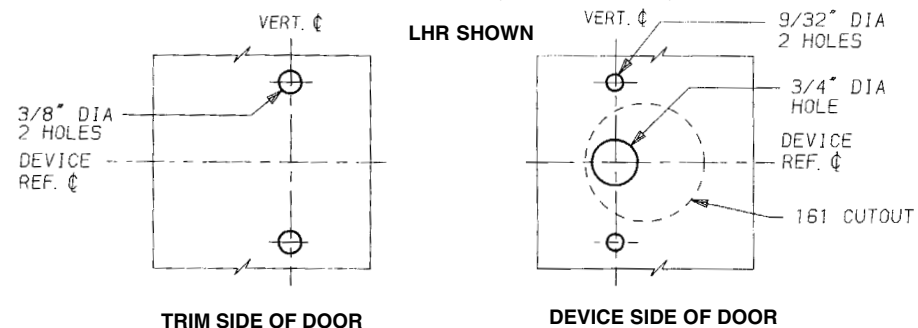
SE MUESTRA EL LHR

- 1) TAPE DRILLING TEMPLATE ON DOOR USING VERTICAL **3** AND DEVICE REF. Q OF DEVICE (REFER TO **2**). CENTERPUNCH AND DRILL HOLES FOR DEVICE MOUNTING. AFTER DRILLING HOLES, REMOVE DRILLING TEMPLATE.



LHR SHOWN

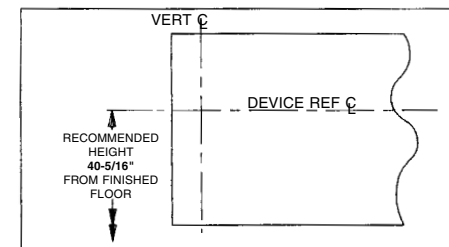
- 2) IF USING OUTSIDE TRIM, PREPARE DOOR USING SEPARATE TRIM DIRECTION SHEET. FOR SEXBOLT INSTALLATIONS, DRILL 3/8" DIAMETER HOLES ON TRIM SIDE OF DOOR ONLY. (SEE DIAGRAM BELOW)



TRIM SIDE OF DOOR

DEVICE SIDE OF DOOR

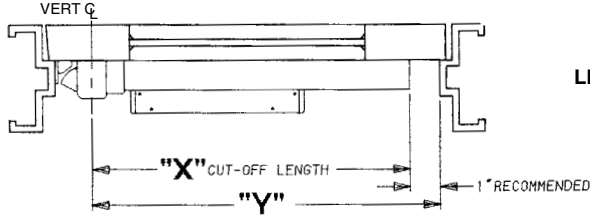
D) DEVICE REF **3** (HORIZONTAL)



3 DOOR & HARDWARE PREPARATION

3) DETERMINE DEVICE LENGTH.

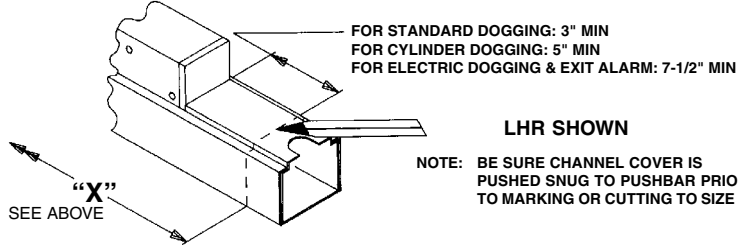
- LOCATE VERTICAL ϕ ON DOOR.
- MEASURE DISTANCE "Y" FROM VERT. ϕ TO STOP SURFACE ON HINGE SIDE.
- SUBTRACT 1" FOR RECOMMENDED CLEARANCE (FOR DOOR STILES LESS THAN 2-3/4" WIDE, SUBTRACT 3/4").
- LENGTH OF DEVICE FROM VERT. ϕ TO CUT-OFF LENGTH IS "X".



LHR SHOWN

4) IF DEVICE IS LONGER THAN "X", CUT THE DEVICE

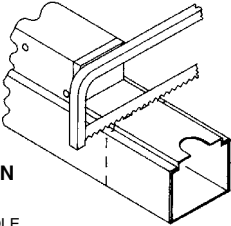
- MARK DEVICE CHANNEL AND COVER TO LENGTH "X"



LHR SHOWN

NOTE: BE SURE CHANNEL COVER IS PUSHED SNUG TO PUSHBAR PRIOR TO MARKING OR CUTTING TO SIZE

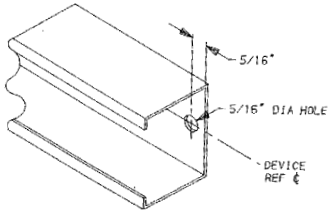
B) CUT BOTH CHANNEL AND CHANNEL COVER TO MARKED DIMENSION AND REMOVE BURRS.



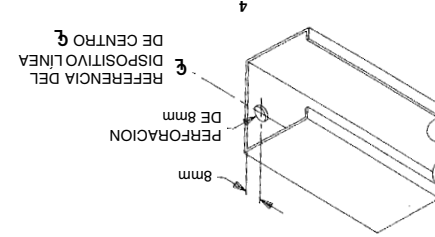
LHR SHOWN

5) DRILL MOUNTING HOLE.

REMOVE CHANNEL COVER AND DRILL 5/16" DIA. HOLE ON DEVICE REF. ϕ 5/16" FROM END OF CHANNEL.



PAGE 4



5) PREPARACIÓN DEL ORIFICIO PARA MONTAJE.
REMOEVA LA CUBIERTA METÁLICA DE LA CANALETA DE LA BARRA Y PERFORE CON UNA BROCA DE 8mm LA PERFORACIÓN EN REFERENCIA DE LA BARRA DE LÍNEA CENTRAL A 8mm AL EXTREMO DE LA CANALETA.

NOTA: LAS RECOMENDACIONES DE LA FABRICA SUBRAYAN QUE DEBERÁ CORTARSE LA BARRA CON UNA SEGÜETA NUEVA O AFILADA, GA QUE UNA DESGASTADA O SIN FILO PUEDE DAÑAR EL ACABADO DE LA BARRA Y POR RESULTADO DAÑAR LA PINTURA DE LA BARRA.

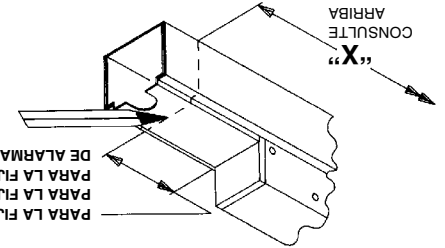
SE MUESTRA EL LHR

B) CORTE TANTO EL CANAL COMO LA CUBIERTA DEL CANAL POR LA DIMENSIÓN MARCADA Y QÜITE LAS SOBRRAS.

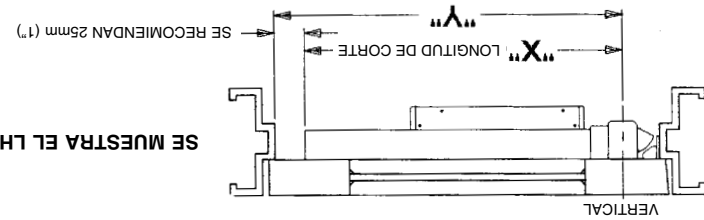
NOTA: ASEGÜRESE DE QUE LA CUBIERTA DEL CANAL ESTÁ ESTRECHAMENTE EMPUJADA CONTRA LA BARRA DE EMPUJE ANTES DE MARCAR O CORTAR AL TAMAÑO NECESARIO

SE MUESTRA EL LHR

PARA LA FIJACIÓN DEL CILINDRO: MIN. 127mm (5")
PARA LA FIJACIÓN ELÉCTRICA Y DE ALARMA DE INCENDIO: MIN. 19cm (7-1/2")



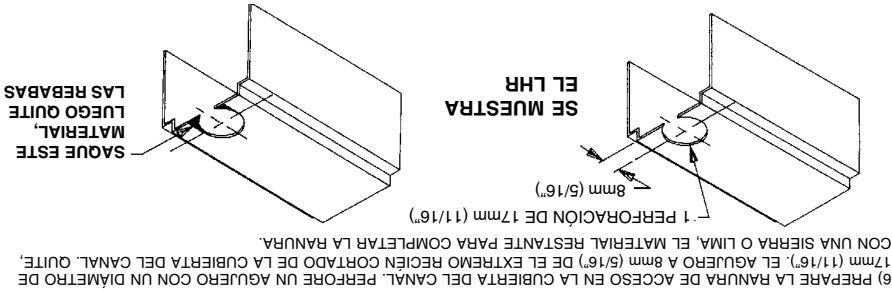
4) SI EL DISPOSITIVO ES MÁS LARGO DE "X", CORTE DEL DISPOSITIVO.
A) MARQUE EL CANAL DEL DISPOSITIVO Y CUBRA LA LONGITUD



SE MUESTRA EL LHR

- UBIQUE LA MEDIANA EN LA PUERTA
- MIDA LA DISTANCIA "Y" DE LA MEDIANA A LA SUPERFICIE DE PARADA DEL LADO DE LA BISAGRA
- RESTE 25mm (1") PARA LA DEBIDA HOLGURA (PARA PIEZAS VERTICALES DE MENOS DE 70mm DE ANCHO, RESTE 19mm (3/4").
- LA DISTANCIA DEL DISPOSITIVO A LA MEDIANA VERTICAL PARA LA LONGITUD DE CORTE ES "X".

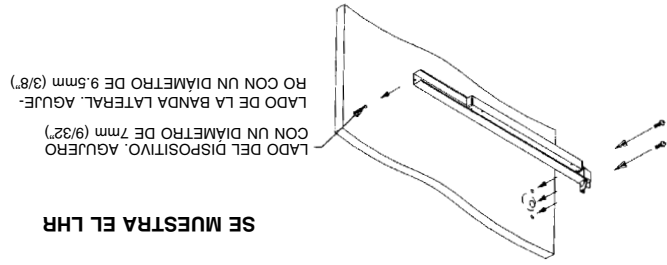
3) DETERMINE LA LONGITUD DEL DISPOSITIVO



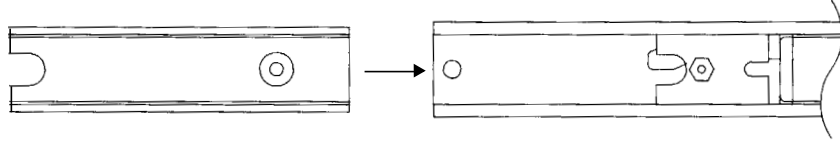
4 INSTALACIÓN DEL HERRAJE

- 1) MONTE LAS BANDAS LATERALES EXTERNAS (CUANDO SEAN NECESARIAS) CONFORME A LAS INSTRUCCIONES EN LA CAJA DE LA BANDA LATERAL. O INSTALE LOS PERNOS HEXAGONALES EXTERNOS.
- 2) MONTE EL DISPOSITIVO - FIJE CON PERNOS PASANTES EL DISPOSITIVO A LA BANDA LATERAL O LOS PERNOS HEXAGONALES.
- 3) UBIQUE, MARQUE Y PERFORE EL AGUJERO PARA EL MONTAJE DE LA TAPA DEL EXTREMO.
 - A) NIVELE EL DISPOSITIVO SOBRE LA PUERTA.
 - B) MARQUE EL CENTRO DEL AGUJERO CON DIÁMETRO DE 8mm AL EXTREMO DEL CANAL.
 - C) PERFORE UN AGUJERO CON UN DIÁMETRO DE 7mm (9/32") A TRAVÉS DE LA PUERTA.
 - D) USE EL AGUJERO CON UN DIÁMETRO DE 7mm (9/32") COMO GUÍA PARA PERFORAR UN AGUJERO CON UN DIÁMETRO DE 9.5mm (3/8") DEL LADO DE LA BANDA LATERAL DE LA PUERTA.

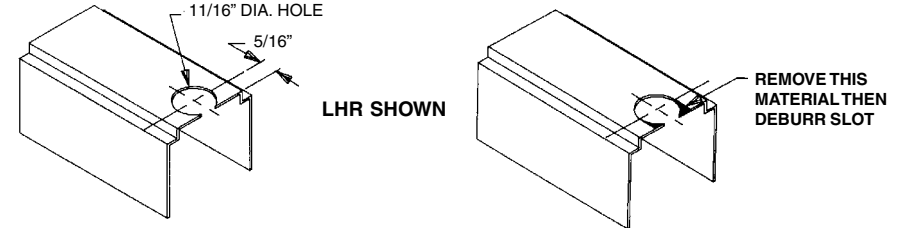
SE MUESTRA EL LHR



SE MUESTRA EL LHR



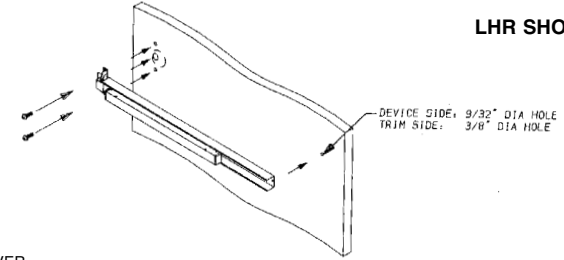
- 6) PREPARE ACCESS SLOT IN CHANNEL COVER. DRILL AN 11/16" DIA. HOLE 5/16" FROM JUST CUT END OF CHANNEL COVER. REMOVE REMAINING MATERIAL TO COMPLETE SLOT USING A SAW OR FILE.



4 HARDWARE INSTALLATION

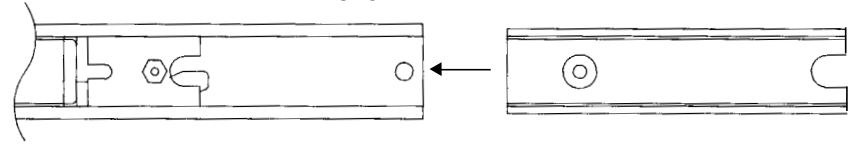
- 1) MOUNT OUTSIDE TRIM (WHEN REQUIRED) PER DIRECTIONS IN TRIM BOX, OR INSTALL OUTSIDE SEX BOLTS.
- 2) MOUNT DEVICE - THROUGH BOLT DEVICE TO TRIM OR SEX BOLTS.
- 3) LOCATE, MARK AND DRILL END CAP MOUNTING HOLE:
 - A) LEVEL DEVICE ON DOOR.
 - B) MARK CENTER OF 5/16" DIA. HOLE AT END OF CHANNEL.
 - C) DRILL 9/32" DIA. HOLE THRU DOOR.
 - D) DRILL 3/8" DIA. HOLE ON TRIM SIDE OF DOOR USING 9/32" DIA. HOLE AS GUIDE.

LHR SHOWN

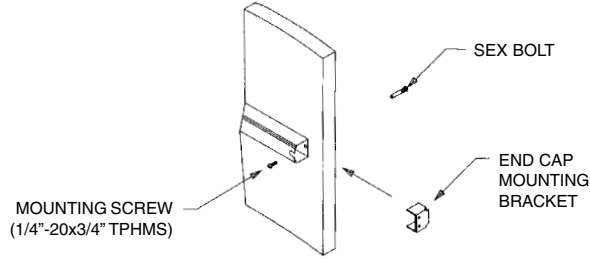


- 4) INSERT CHANNEL COVER.

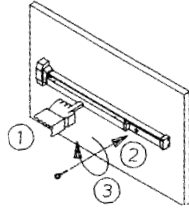
LHR SHOWN



5) INSTALL END CAP MOUNTING BRACKET USING SEX BOLT AND SCREW



- 6) TIGHTEN ALL MOUNTING SCREWS AND CHECK FOR SMOOTH OPERATION.
 7) ATTACH COVER TO CHASSIS USING #8-32x5/16" UFPHMS, SLIDE CHANNEL COVER IN PLACE AND ATTACH CHANNEL END CAP USING #10-24x3/8" UFPHMS.
 8) CHECK DOGGING OPERATION: (PANIC APPLICATION ONLY)
 A) DEPRESS TOUCHBAR, INSERT AND TURN DOGGING KEY CLOCKWISE TO DOG DEVICE.

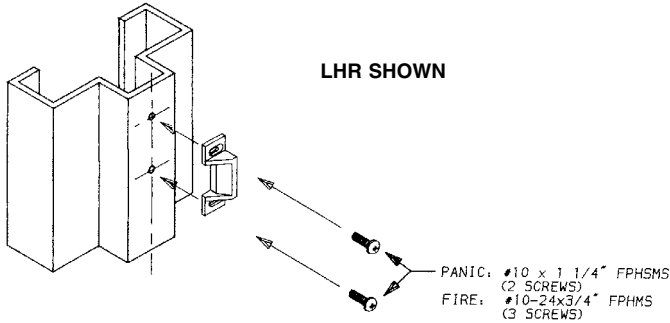


LHR SHOWN

- B) REMOVE DOGGING KEY; TOUCHBAR WILL REMAIN DEPRESSED.
 C) RE-INSERT DOGGING KEY AND TURN IT IN OPPOSITE DIRECTION (COUNTER-CLOCKWISE), PUSH ON TOUCHBAR AND IT WILL "POP OUT".
 D) FOR CYLINDER DOGGING, REFER TO INSTALLATION INSTRUCTION D-4080.

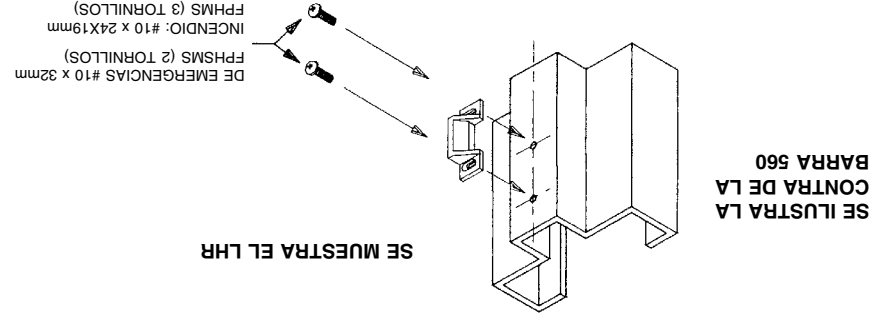
9) PREPARE DOOR STOP FOR STRIKE AND APPLY.

560 STRIKE SHOWN



LHR SHOWN

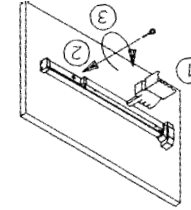
PANIC: #10 x 1 1/4" FPHMS (2 SCREWS)
 FIRE: #10-24x3/4" FPHMS (3 SCREWS)



SE MUESTRA EL LHR

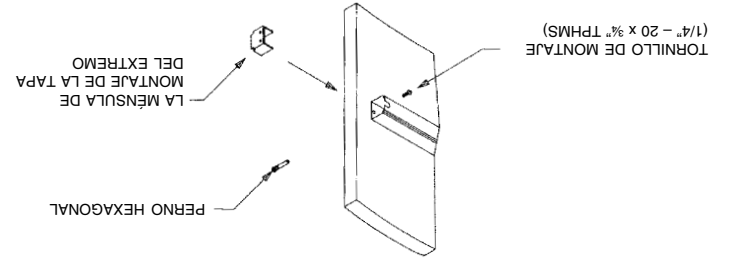
SE ILUSTR LA CONTRA DE LA BARRA 560

- B) SAQUE LA LLAVE HEXAGONAL, LA BARRA DE EMPUJE PERMANECERÁ OPINIDA.
 C) REINSERTE LA LLAVE HEXAGONAL Y GÍRELA EN LA DIRECCIÓN OPUESTA (EN LA DIRECCIÓN CONTRARIA A LAS MANECILLAS DEL RELÓJ). EMPUJE LA BARRA DE EMPUJE Y ÉSTA SALTARÁ FUERA.
 D) PARA LA FIJACIÓN DEL CILINDRO, CONSULTE LA INSTRUCCIÓN DE INSTALACIÓN D-4080.
 9) PREPARE EL TOPE DE LA PUERTA PARA LA CONTRA DEL CERRROJO Y FIJELA.



SE MUESTRA EL LHR

- 6) APRIETE TODOS LOS TORNILLOS DE MONTAJE Y COMPRUEBE QUE FUNCIONA SUAVEMENTE.
 7) ASEGURE LA CUBIERTA AL CHASIS (#8-32x8mm UFPHMS), DESLICE LA CUBIERTA DEL CANAL A SU LUGAR Y FUE LA TAPA DEL EXTREMO DEL CANAL (#10-24x10mm UFPHMS).
 8) VERIFIQUE LA OPERACIÓN DE FIJACIÓN (SÓLO EN EL CASO DE LA APLICACIÓN DE EMERGENCIAS).
 A) OPRIMA LA BARRA DE EMPUJE, INSERTE Y GIRE LA LLAVE HEXAGONAL EN LA DIRECCIÓN DE LAS MANECILLAS DEL RELÓJ PARA FIJAR EL DISPOSITIVO.



5) UTILICE EL PERNO HEXAGONAL Y EL TORNILLO, INSTALE LA MENSULA DE MONTAJE DE LA TAPA DEL EXTREMO.

PARA LA BANDA LATERAL KIL, KIK Y

CENTRON:

PERFORE UN AGUJERO CON UN
DIÁMETRO DE 7mm (9/32")

PARA PERNOS PASANTES EN LA
UBICACIÓN "A" (2 AGUJEROS)

PARA TODAS LAS OTRAS APLICACIONES:

PERFORE UN AGUJERO CON UN DIÁMETRO
DE 7mm (9/32") PARA PERNO PASANTE O
PERFORE Y ROSQUE PARA 1/4" - 20 TPHMS
EN LA UBICACIÓN "B" (2 AGUJEROS)

PREPARACIÓN
DEL ANSI 161
PARA LA
REFERENCIA
54mm (2-1/8")

114mm (4-1/2")

89mm (3-1/2")

HORIZONTAL
REFERENCIA DEL
DISPOSITIVO LÍNEA
DE CENTRO $\mathcal{C}$

VERTICAL
REFERENCIA DEL
DISPOSITIVO LÍNEA
DE CENTRO $\mathcal{C}$

16mm
(5/8")

PARA EL RECESO
DEL PLANO DE LA
PARED A LA
PESTILLO
CONSULTE LA
PÁGINA 2 DE
D-1100

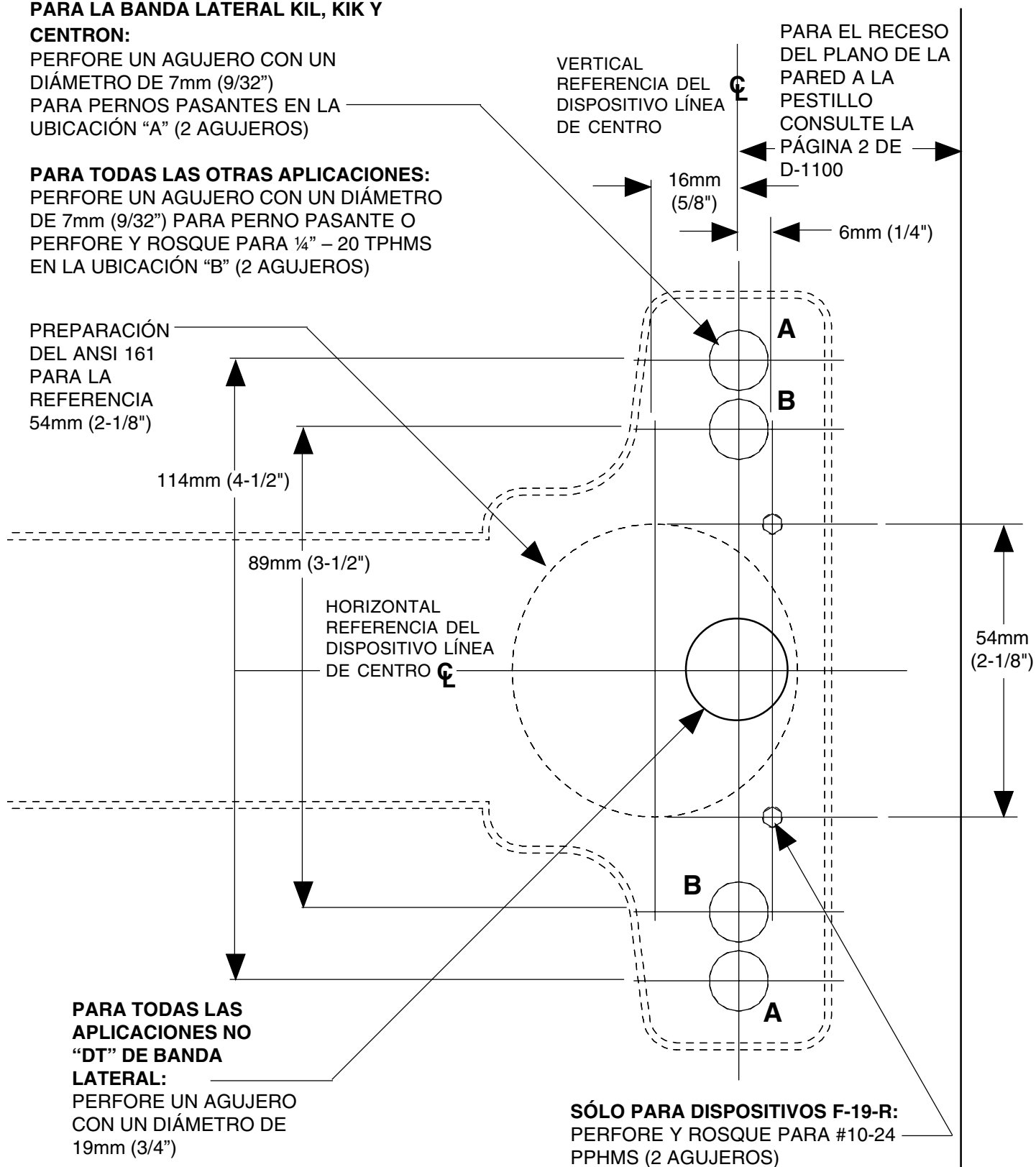
6mm (1/4")

54mm
(2-1/8")

**PARA TODAS LAS
APLICACIONES NO
"DT" DE BANDA
LATERAL:**

PERFORE UN AGUJERO
CON UN DIÁMETRO DE
19mm (3/4")

SÓLO PARA DISPOSITIVOS F-19-R:
PERFORE Y ROSQUE PARA #10-24
PPHMS (2 AGUJEROS)

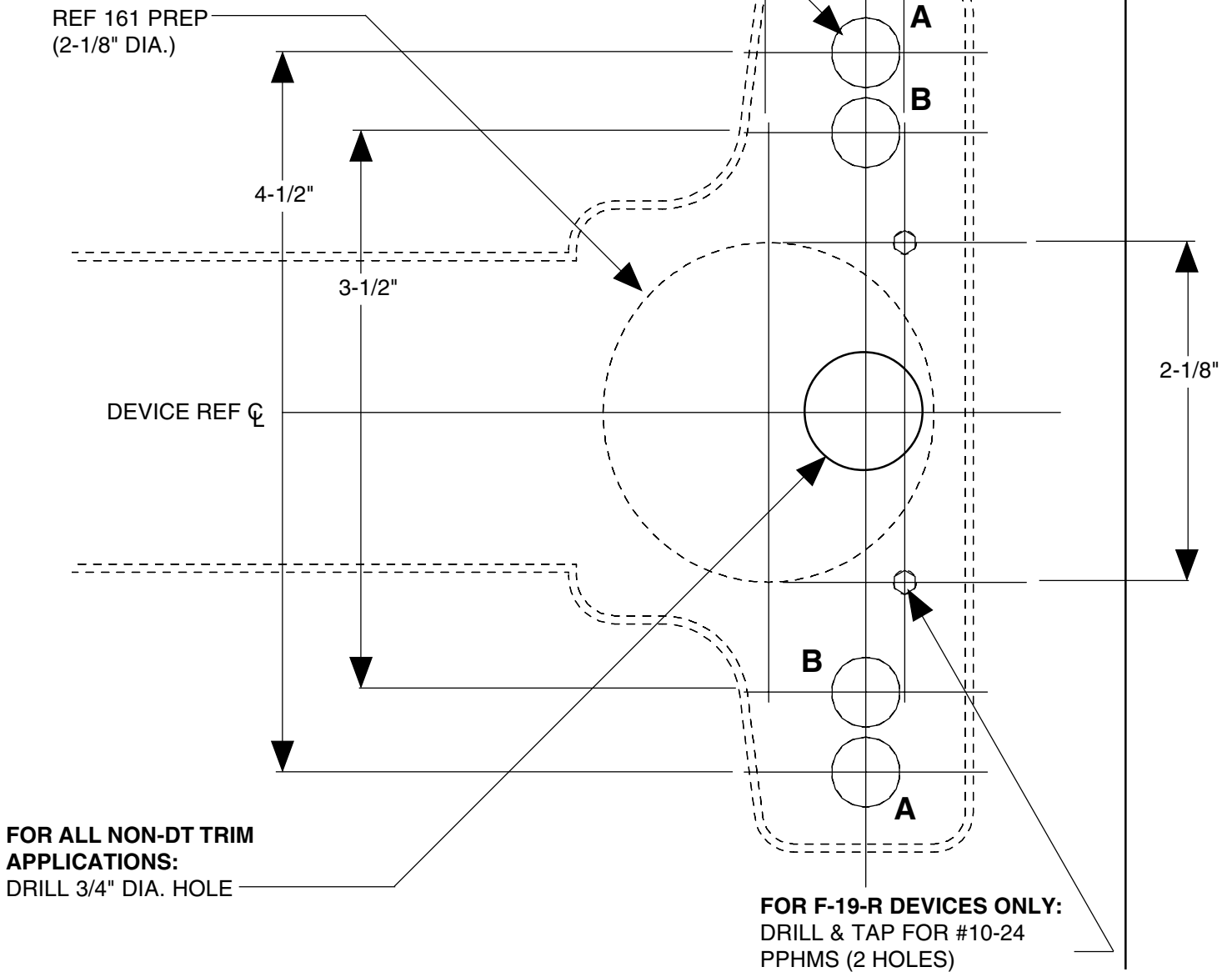


FOR KIL, KIK & CENTRON TRIM:

DRILL 9/32" DIA. HOLE
FOR THRU-BOLTING AT
LOCATION "A" (2 HOLES)

FOR ALL OTHER APPLICATIONS:

DRILL 9/32" DIA. HOLE
FOR THRU-BOLTING OR
DRILL & TAP FOR 1/4"-20
TPHMS AT LOCATION "B"
(2 HOLES)





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F19-V & 19-V

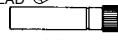
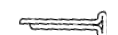
Exit Devices

Installation Instructions

1 PARTS CHECK

- 1) MAKE SURE THE CORRECT DEVICE IS BEING USED.
- 2) MAKE SURE DEVICE IS CORRECT HANDING, IF NOT, SEE PAGE 10 (FIGURE 1 OR FIGURE 2).
- 3) MAKE SURE ALL NEEDED PARTS ARE ON HAND.

NOTE: LIST DOES NOT REFLECT ALL POSSIBLE APPLICATIONS.

1) (F) 19-V DEVICE  NOTE: DEVICE IS FIELD REVERSIBLE	4) SCREW PACK FOR PANIC DEVICE DOGGING KEY (1 QTY.)  MOUNTING BRACKET (1 QTY.)  SEX BOLT – 1/4"-20 THREAD (3 QTY.)  1/4" - 20 x 3/4" TPHMS (1 QTY.)  1/4" - 20 x 3/4" FPHMS (2 QTY.)  #10 x 1-1/4" FPHSMS (6 QTY., 2 FINISHED)  CHANNEL END CAP (1 QTY.)  #10-24 x 3/8" UFPHMS w/NYLON PATCH (2 BLACK)  #10 x 1-1/4" PPHSMS (6 QTY. [4 BLACK])  1/8" x 3/4" COTTER KEY (2 QTY)  ROD GUIDE (2 QTY.) 	5) SCREW PACK FOR FIRE DEVICE MOUNTING BRACKET (1 QTY.)  SEX BOLT – 1/4" - 20 THREAD (3 QTY.)  1/4" - 20 X 3/4" TPHMS (1 QTY.)  1/4" - 20 x 3/4" FPSMS (2 QTY.)  #10 - 24 X 3/4" FPHMS (6 QTY.)  CHANNEL END CAP (1 QTY.)  #10-24 x 3/8" UFPHMS w/NYLON PATCH (2 BLACK)  #10 - 24 x 3/4" PPHMS (6 QTY. [4 BLACK])  1/8" x 3/4" COTTER KEY (2 QTY)  ROD GUIDE (2 QTY.) 																					
2) STRIKE  4163/3788  2126A  2130  4155 <table><tr><td>FIRE</td><td>TOP</td><td>(F)19-V</td></tr><tr><td></td><td>BOTTOM</td><td>3788</td></tr><tr><td>PANIC</td><td>TOP</td><td>2130</td></tr><tr><td></td><td>BOTTOM</td><td>4163</td></tr><tr><td></td><td>BOTTOM</td><td>2130</td></tr><tr><td></td><td>OPT. BOTTOM</td><td>2126A</td></tr><tr><td></td><td>OPT. BOTTOM</td><td>4155</td></tr></table>	FIRE	TOP	(F)19-V		BOTTOM	3788	PANIC	TOP	2130		BOTTOM	4163		BOTTOM	2130		OPT. BOTTOM	2126A		OPT. BOTTOM	4155	3) LATCHES & BOTTOM BOLTS  TOP LATCH  BOTTOM LATCH  BOLT ASSEMBLY	6) VERTICAL RODS (LENGTHS FOR 7'0" OPENINGS) TOP ROD = 36-7/8" BOTTOM ROD = 34-5/8"
FIRE	TOP	(F)19-V																					
	BOTTOM	3788																					
PANIC	TOP	2130																					
	BOTTOM	4163																					
	BOTTOM	2130																					
	OPT. BOTTOM	2126A																					
	OPT. BOTTOM	4155																					

- 4) MAKE SURE OUTSIDE TRIM (IF BEING USED) HAS BEEN PROVIDED AND IS THE CORRECT HANDING. SEE PAGE 10, NOTE #4 FOR TRIM CAM POSITION.



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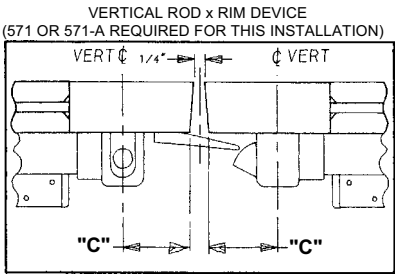
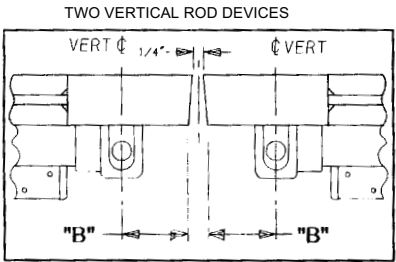
2 DOOR LAYOUT

(NOTE: FOR FACTORY PREPARED DOORS, VERIFY LAYOUT.)

- 1) DOOR MUST BE FITTED AND HUNG PROPERLY BEFORE PROCEEDING.
- 2) MARK VERTICAL ϕ AND DEVICE REF. ϕ ON DOOR AND FRAME (SEE FIGURES & CHARTS BELOW).

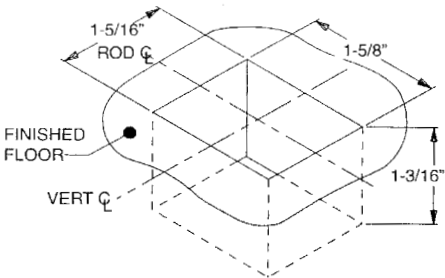
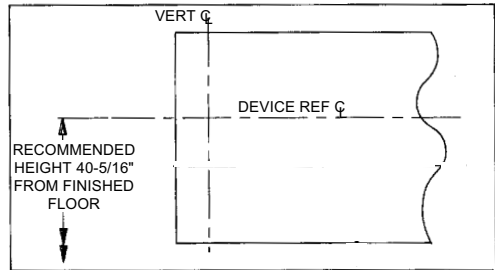
A) VERTICAL ϕ :

INSTALLATION	1-3/4" MIN.	3" MIN.
(F)19-V x (F)19-V	"B"=1-5/16"	"B"=2-1/4"
19-V x 19-R (w/ 571 STRIKE)	-	"C"=2-5/16"
19-V x 19-R (w/ 571-A STRIKE)	-	"C"=1-13/16"



NOTE: 571 & 571-A ARE NOT APPROVED FOR FIRE RATED APPLICATIONS.

B) DEVICE REF ϕ : (HORIZONTAL)



CAVITY PREPARATION FOR
2130 BOTTOM STRIKE

5 REVERSING INSTRUCTIONS

TO CHANGE THE HANDING OF A 19-V DEVICE

- 1) REMOVE CHASSIS COVER (2 SCREWS, COVER IS NOT SHOWN).
- 2) REMOVE HOUSING **A** (2 SCREWS).
- 3) REMOVE SLIDEBAR LEVER **B** AND DRAWBAR LEVER **C**.
- 4) ROTATE RETRACTOR CAM **D** TO CORRECT POSITION, SEE FIGURE 1 (RHR) OR FIGURE 2 (LHR).
NOTE: FOR INSTALLATIONS WITH NO TRIM, RETRACTOR CAM **D** SHOULD POINT TOWARDS BOTTOM OF DOOR.
- 5) INVERT DRAWBAR LEVER **C** AND INSTALL ON OPPOSITE PIVOT PIN **E**. SEE FIGURES BELOW.
- 6) INSTALL SLIDE BAR LEVER **B** MAKING SURE TEETH ARE ENGAGED WITH DRAWBAR LEVER **C** AND THAT NUB ON **B** FITS WITHIN SLOT IN **F**.
- 7) REASSEMBLE HOUSING **A** (2 SCREWS).
- 8) PROCEED WITH DEVICE INSTALLATION.

NOTE: RETRACTOR CAM **D** AND DRAWBAR LEVER **C** SHOULD POINT IN THE SAME DIRECTION AND TOWARDS THE TOP OF THE DOOR WHEN DEVICE IS INSTALLED WITH TRIM.

NOTE: A RHR DEVICE REQUIRES RHR TRIM, SEE TRIM INSTALLATION SHEET FOR TRIM REVERSING PROCEDURES.

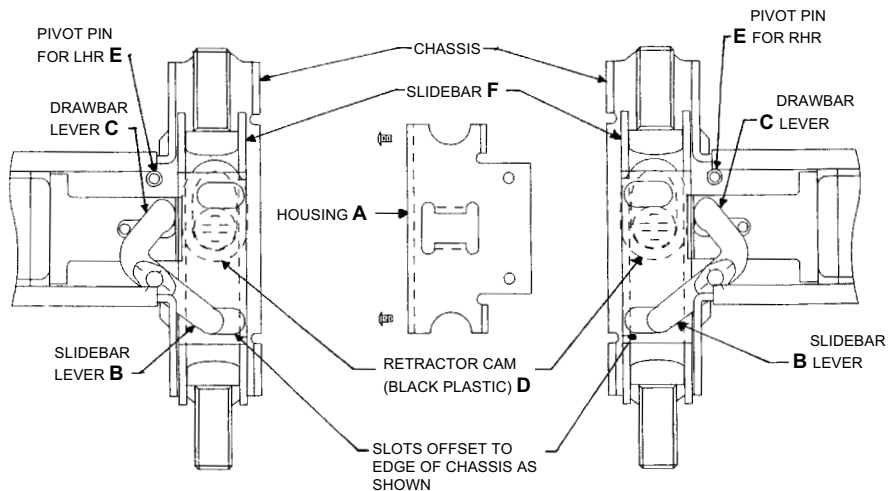
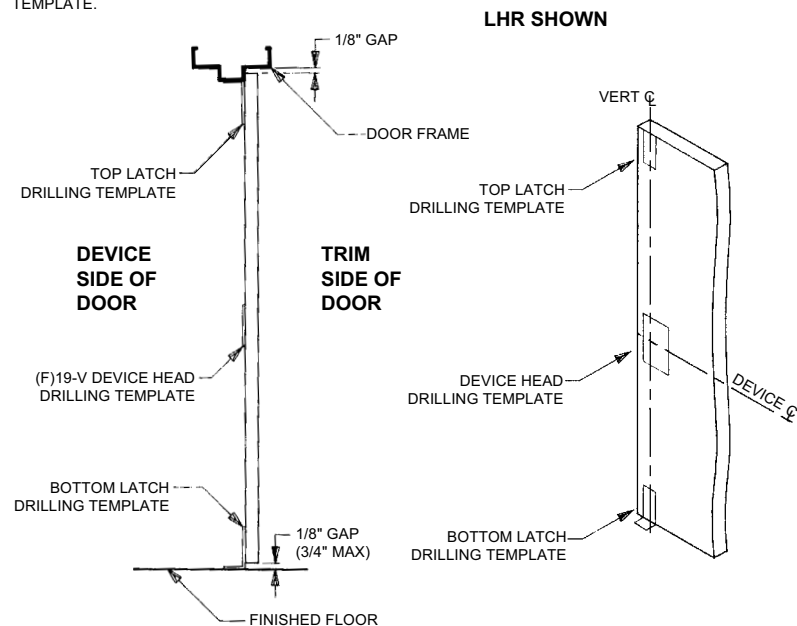


FIGURE 1: RHR

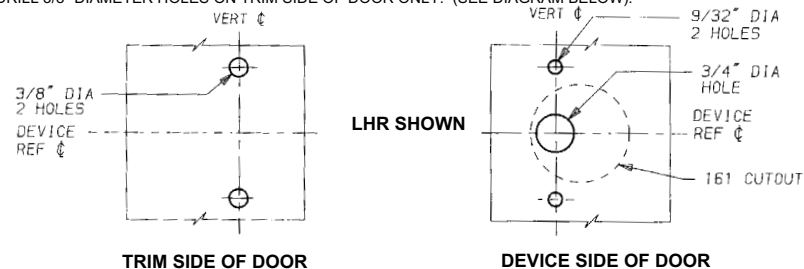
FIGURE 2: LHR

3 DOOR & HARDWARE PREPARATION

- 1) REMOVE PAPER TEMPLATES FROM CENTER OF THIS BOOK.
- 2) TAPE DRILLING TEMPLATE ON DOOR AND FRAME USING VERTICAL ϕ AND REF ϕ OF DEVICE (REFER TO 2). CENTERPUNCH AND DRILL HOLES FOR DEVICE AND STRIKE MOUNTING AFTER DRILLING HOLES, REMOVE DRILLING TEMPLATE.



- 3) USING OUTSIDE TRIM, PREPARE DOOR USING SEPARATE TRIM DIRECTION SHEET. FOR SEXBOLT INSTALLATIONS, DRILL 3/8" DIAMETER HOLES ON TRIM SIDE OF DOOR ONLY. (SEE DIAGRAM BELOW).

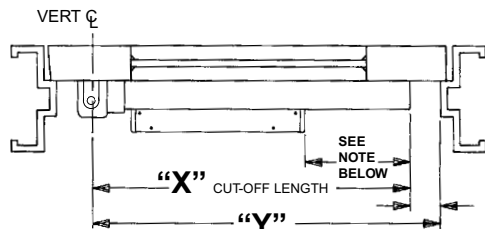


TRIM SIDE OF DOOR

DEVICE SIDE OF DOOR

4) DETERMINE DEVICE LENGTH.

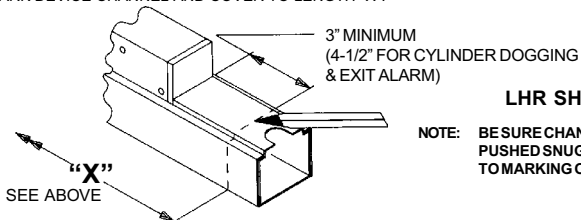
- LOCATE VERTICAL ϕ ON DOOR.
- MEASURE DISTANCE "Y" FROM VERT. ϕ TO STOP SURFACE ON HINGE SIDE.
- SUBTRACT 1" FOR RECOMMENDED CLEARANCE (FOR DOOR STILES LESS THAN 2-3/4" WIDE, SUBTRACT 3/4").
- LENGTH OF DEVICE FROM VERT. ϕ TO CUT-OFF LENGTH IS "X".



LHR SHOWN

NOTE: FOR STANDARD DOGGING: 3" MIN.
FOR CYLINDER DOGGING: 4-1/2" MIN.
FOR EXIT ALARM AND ELECTRIC DOGGING: 7" MIN.

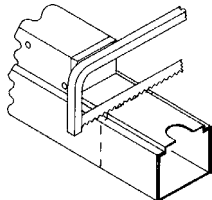
- IF DEVICE IS LONGER THAN "X", CUT THE DEVICE.
 - MARK DEVICE CHANNEL AND COVER TO LENGTH "X".



LHR SHOWN

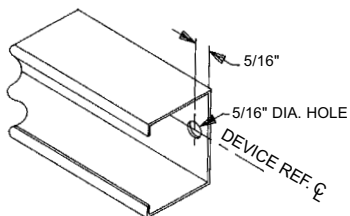
NOTE: BE SURE CHANNEL COVER IS PUSHED SNUG TO PUSHBAR PRIOR TO MARKING OR CUTTING TO SIZE

- CUT BOTH CHANNEL AND CHANNEL COVER TO MARKED DIMENSION AND REMOVE BURRS.



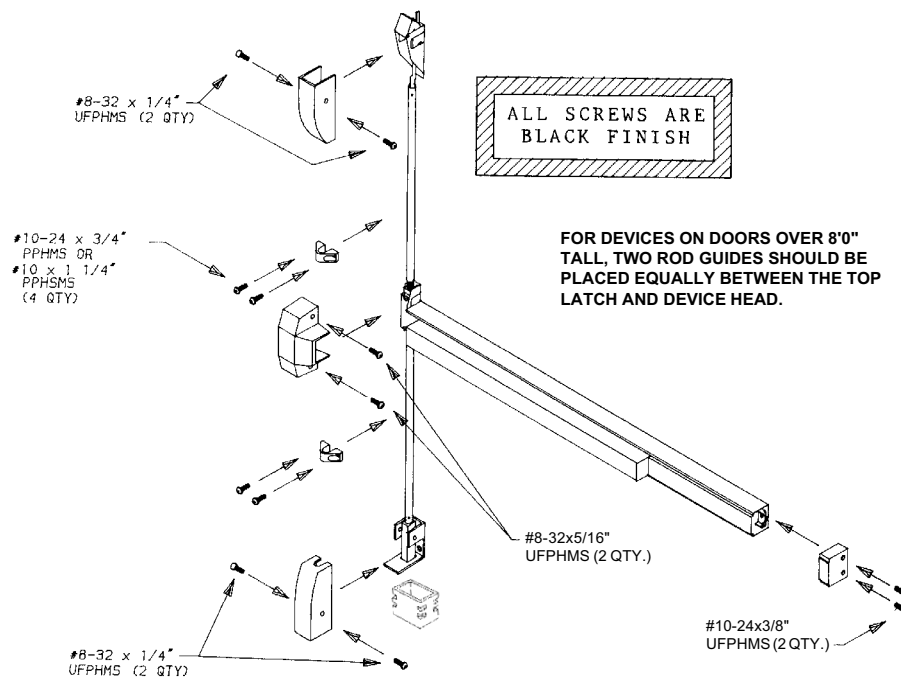
NOTE: FACTORY RECOMMENDS SAWING RATHER THAN GRIND CUT TO SIZE. GRINDING CAN DAMAGE THE FINISH OF THE DEVICE AND SAWING RESULTS IN LESS DAMAGE TO THE DEVICES'S FINISH.

- DRILL MOUNTING HOLE.
REMOVE CHANNEL COVER AND DRILL 5/16" DIA. HOLE ON DEVICE REF. ϕ 5/16" FROM END OF CHANNEL.



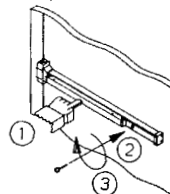
10) APPLY STRIKES & COVERS (NOTE: ALL SCREWS ARE BLACK).

- ATTACH COVERS TO CHASSIS AND LATCHES.
- INSTALL ROD GUIDES.
- SLIDE IN CHANNEL COVER.
- ATTACH CHANNEL END CAP.
- INSTALL STRIKES TO TOP OF DOOR FRAME AND TO FLOOR OR THRESHOLD.
- CHECK FOR SMOOTH OPERATION.



11) CHECK DOGGING OPERATION: (PANIC APPLICATION ONLY)

- DEPRESS TOUCHBAR, INSERT AND TURN DOGGING KEY CLOCKWISE TO DOG DEVICE.



LHR SHOWN

- REMOVE DOGGING KEY; TOUCHBAR WILL REMAIN DEPRESSED.
- REINSERT DOGGING KEY AND TURN IT IN OPPOSITE DIRECTION (COUNTER-CLOCKWISE). PUSH ON TOUCHBAR AND IT WILL "POP OUT."
- FOR CYLINDER DOGGING, REFER TO INSTALLATION INSTRUCTION D-4080.

9) VERTICAL ROD ADJUSTMENT.

A) TOP LATCH ADJUSTMENT.

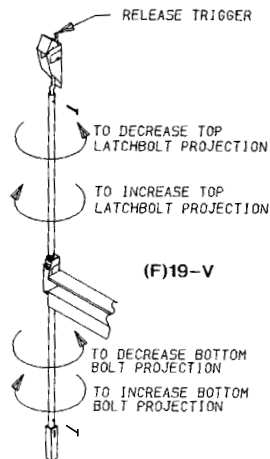
- 1) RELEASE TOP LATCHBOLT USING RELEASE TRIGGER.
- 2) CHECK TOP LATCHBOLT PROJECTION, LATCHBOLT PROJECTION SHOULD BE 5/8" TO 3/4".
- 3) IF THE TOP LATCHBOLT DOES NOT PROJECT THIS MUCH, REMOVE THE COTTER KEY FROM THE TOP ROD AND TURN THE TOP ROD ONE FULL TURN (SEE BELOW). RE-INSERT THE COTTER KEY. RECHECK THE INCREASED LATCHBOLT PROJECTION. REPEAT UNTIL TOP LATCHBOLT PROJECTION IS 5/8" TO 3/4".
- 4) SLOWLY DEPRESS TOUCHBAR; LATCHBOLT SHOULD REMAIN IN RETRACTED POSITION.
- 5) IF LATCHBOLT DOES NOT REMAIN IN RETRACTED POSITION, REMOVE COTTER KEY. DECREASE TOP LATCHBOLT PROJECTION BY ROTATING ROD 1/2 TURN (SEE BELOW).
- 6) RE-INSERT COTTER KEY, REPEAT PROCESS UNTIL LATCHBOLT REMAINS IN RETRACTED POSITION.

B) BOTTOM BOLT ADJUSTMENT (TOP LATCH SHOULD REMAIN IN RETRACTED POSITION).

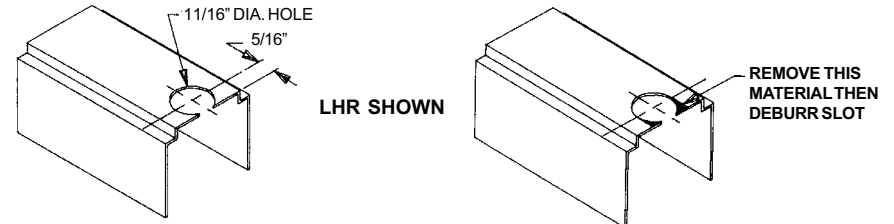
- 1) REMOVE COTTER KEY, ROTATE ROD 1/2 TURN UNTIL BOTTOM BOLT CLEARS FINISHED FLOOR.
- 2) RE-INSERT COTTER KEY.

C) IF TRIM IS BEING USED, OPERATE TRIM AND CHECK FOR FULL LATCHBOLT RETRACTION. IF TOP LATCHBOLT DOES NOT REMAIN IN RETRACTED POSITION, DECREASE TOP AND BOTTOM LATCHBOLT PROJECTION (SEE BELOW).

D) BEND COTTER KEYS AROUND RODS AND RELEASE TOP LATCHBOLT USING RELEASE TRIGGER.



7) PREPARE ACCESS SLOT IN CHANNEL COVER. DRILL AN 11/16" DIA. HOLE 5/16" FROM JUST CUT END OF CHANNEL COVER. REMOVE REMAINING MATERIAL TO COMPLETE SLOT USING A SAW OR FILE.



8) IF DOOR OPENING IS NOT 7'0", DETERMINE TOP ROD LENGTH BASED ON A 40-5/16" DEVICE REF. Q FROM FINISHED FLOOR.

A) FOR DOOR OPENINGS UNDER 7'0":

- 1) SUBTRACT DOOR OPENING FROM 7'0" OPENING.
- 2) SUBTRACT ANSWER FROM PART 1 FROM 36-7/8" TO DETERMINE TOP ROD LENGTH. (EXAMPLE : 6'8" DOOR OPENING - 7'0" - 6'8" = 4" 36-7/8"-4"= 32-7/8" TOP ROD)

B) FOR DOOR OPENINGS ABOVE 7'0":

- 1) SUBTRACT 7'0" FROM DOOR OPENING.
- 2) ADD ANSWER FROM PART 1 TO 36-7/8" TO DETERMINE TOP ROD LENGTH. (EXAMPLE: 8'10" DOOR OPENING - 8'10"-7'0"=22" 36-7/8"+22"=58-7/8")

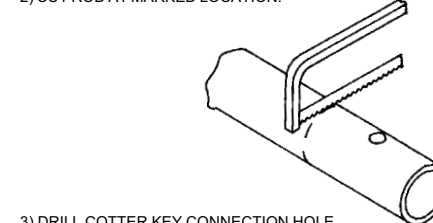
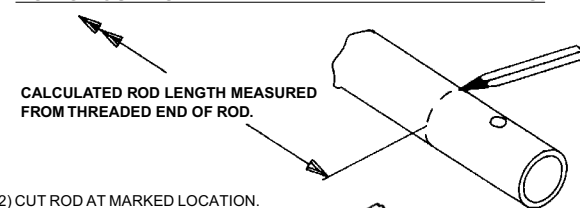
9) MODIFY TOP ROD TO REQUIRED LENGTH.

A) FOR RODS THAT ARE TOO LONG, FOLLOW PROCEDURE BELOW TO CUT ROD TO SIZE.

- 1) MARK RODS TO REQUIRED LENGTH.

NOTE: ROD MUST BE MEASURED FROM THREADED PORTION OF ROD.

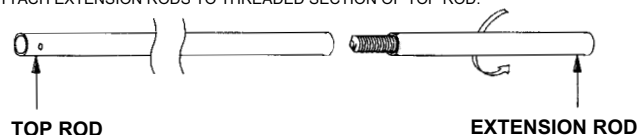
DO NOT CUT ROD AT END WITH INTERNAL THREADS.



3) DRILL COTTER KEY CONNECTION HOLE.

DRILL 1/8" DIA. HOLE THRU ON VERTICAL ROD 7/16" FROM END OF ROD JUST CUT.

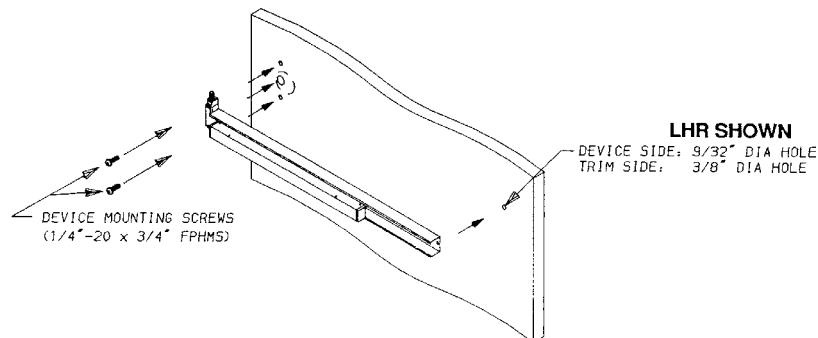
- B) FOR RODS THAT ARE TOO SHORT, FOLLOW PROCEDURE BELOW.
1) ATTACH EXTENSION RODS TO THREADED SECTION OF TOP ROD.



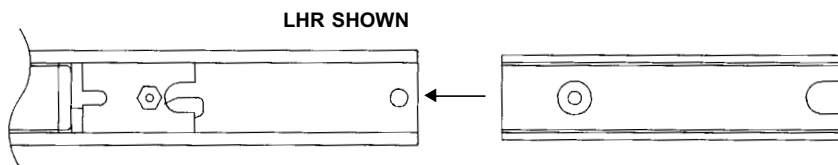
- 2) FOLLOW INSTRUCTIONS TO MARK, CUT & DRILL TOP ROD (SEE STEP 1 OF PART A OF PREVIOUS PAGE).

4 HARDWARE INSTALLATION

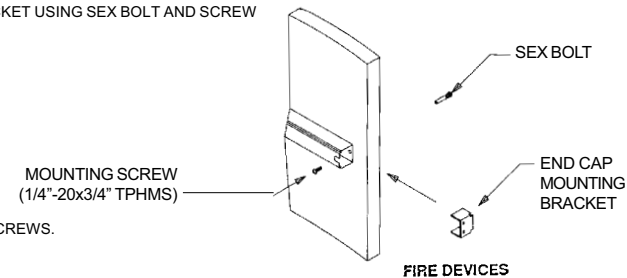
- 1) MOUNT OUTSIDE TRIM (WHEN REQUIRED) PER DIRECTIONS IN TRIM BOX, OR INSTALL OUTSIDE SEX BOLTS.
- 2) MOUNT DEVICE - THROUGH BOLT DEVICE TO TRIM OR SEX BOLTS.
- 3) LOCATE, MARK AND DRILL END CAP MOUNTING HOLE:
 - A) LEVEL DEVICE.
 - B) MARK CENTER OF 5/16" DIA. HOLE AT END OF CHANNEL.
 - C) DRILL 9/32" DIA. HOLE THRU DOOR.
 - D) DRILL 3/8" DIA. HOLE ON TRIM SIDE OF DOOR USING 9/32" DIA. HOLE AS GUIDE.



- 4) INSTALL CHANNEL COVER.

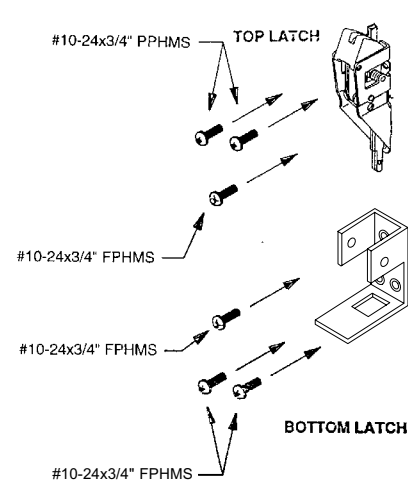
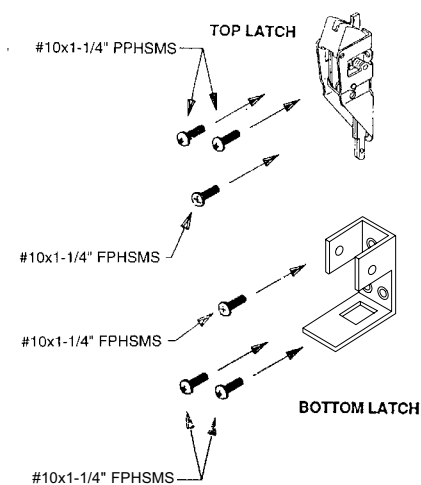


- 5) INSTALL END CAP MOUNTING BRACKET USING SEX BOLT AND SCREW

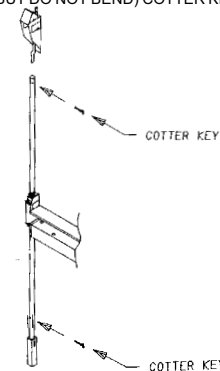


- 6) TIGHTEN ALL DEVICE MOUNTING SCREWS.
7) INSTALL TOP & BOTTOM LATCHES.

PANIC DEVICES



- 8) THREAD RODS ONTO DEVICE CENTERSLIDE. INSERT ROD CONNECTORS FROM TOP LATCH INTO OPPOSITE END OF TOP ROD AND INSERT (BUT DO NOT BEND) COTTER KEY THROUGH ROD AND ROD CONNECTOR. INSERT BOLT ASSEMBLY INTO OPPOSITE END OF BOTTOM ROD AND INSERT (BUT DO NOT BEND) COTTER KEY THROUGH ROD AND BOLT ASSEMBLY.



**FOR KIL, KIK
& CENTRON TRIM:**

DRILL 9/32" DIA. HOLE VERT. CL.
FOR THRU-BOLTING AT
LOCATION "A" (2 HOLES)

FOR ALL OTHER

APPLICATIONS:
DRILL 9/32" DIA.
HOLE FOR THRU-BOLTING
OR DRILL & TAP
FOR 1/4"-20
TPHMS AT
LOCATION "B"
(2 HOLES)

BACKSET
SEE PAGE 2
OF D-1105

5/8"
(REF)

REF 161 PREP
(2-1/8" DIA.)

A

B

4-1/2"

3-1/2"

DEVICE REF. CL.

B

A

3/4" DIA. HOLE
(x 3/4" DEEP ON EXIT
ONLY WOOD DOORS)

CUT HERE

CUT HERE

VERT. CL.

5/16"

FOLD HERE

1-1/2"

1-3/4"

9/16"

DRILL 9/64" DIA.
HOLE FOR SHEET
METAL SCREW OR
DRILL & TAP FOR
#10-24 MACHINE
SCREW

DRILL 9/64" DIA.
HOLE FOR SHEET
METAL SCREW OR
DRILL & TAP FOR
#10-24 MACHINE
SCREW OR DRILL
9/32" DIA. HOLE
INSIDE AND 3/8" DIA.
HOLE OUTSIDE FOR
SEX BOLTS.
(3 HOLES)

TOP LATCH

2-1/2"

CUT HERE

VERT. CL.

1-1/16"

1-1/4"

1/2"

FINISHED FLOOR

BOTTOM
LATCH

DRILL 9/64" DIA.
HOLE FOR SHEET
METAL SCREWS OR
DRILL & TAP #10-24
FOR MACHINE
SCREWS (3 HOLES)