



DETEX 105280 Concealed Vertical Rod Exit Device Instruction Manual

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105280 Concealed Vertical Rod Exit Device

INSTALLATION INSTRUCTIONS FOR 70/71 SERIES CVR WOOD DOOR CONCEALED

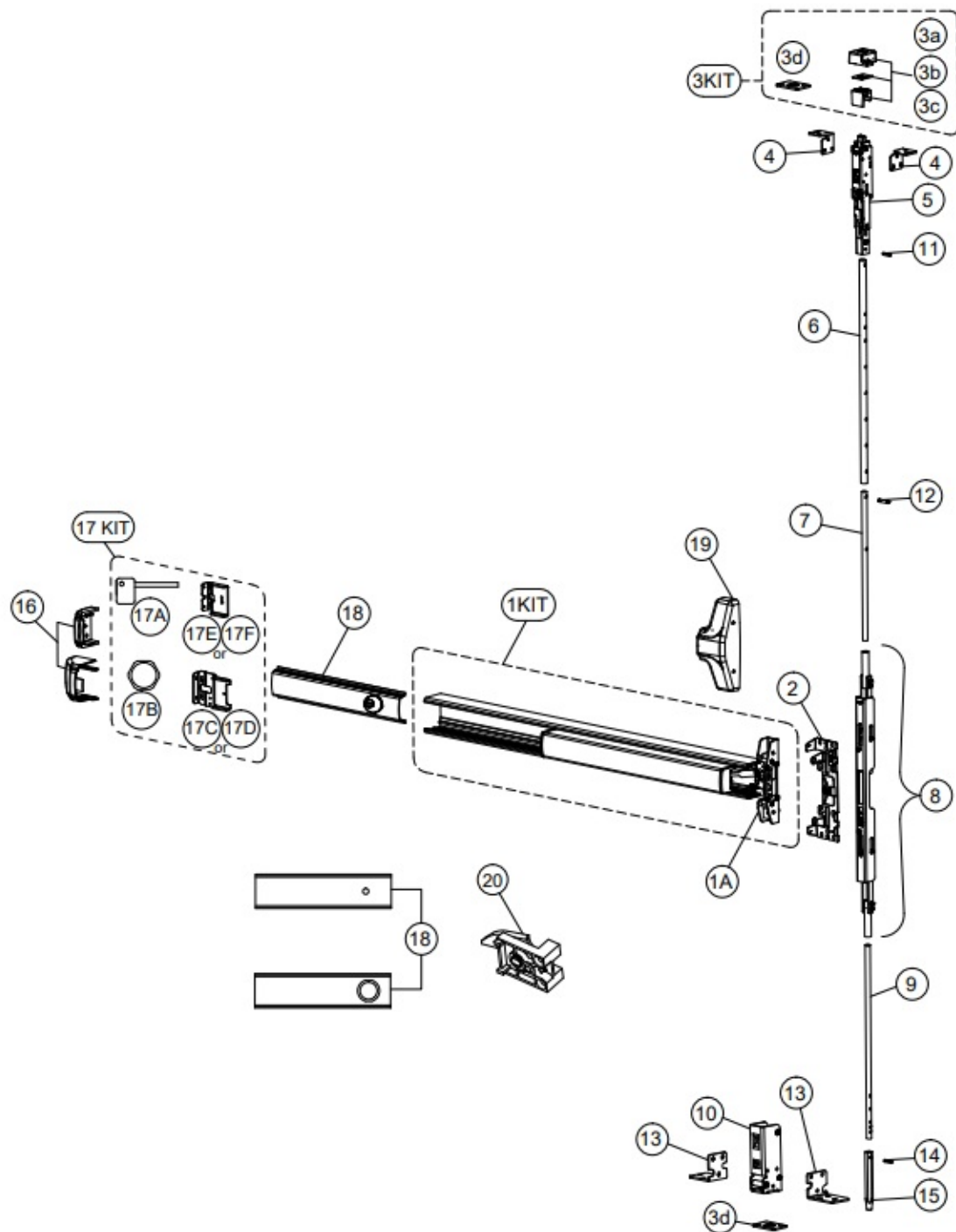


Concealed Vertical Rod Exit Device
70 / F70 / 71 / F71 Series for Medium to Wide Stile
Wood / Composite door applications
Drawing No. 105280

Device Parts Breakdown View

* Note:

Parts listed will vary according to product configuration.
Mortise cylinder available as an option. Standard Yale-type cam required.
See the Mortise cylinder installation page.
Your particular part or configuration may not be shown:
Contact Detex technical support at 800-729-3839 (option 2)



Device Parts Breakdown Part Numbers

ITEM	PART #	DESCRIPTION
1KIT	105500-167	S&R 70 x STD1 x RHR Center case/Pushpad Assy
	105500-168	S&R 70 x STD1 x LHR Center case/Pushpad Assy

1A	104111-13	Center case, CVR, Wide, RHR
	104111-14	Center case, CVR, Wide, LHR
2	104171-1	Mounting plate, Wide, CVR, BP11 (Use with 08/09 lever trim)
	104171-2	Mounting plate, Wide, CVR, BP13 (Use with 03 trim)
3KIT	105257-1	Top/Bottom strike kit
3a	105235-1	CVR top strike pocket
3b	105246	CVR strike shim
3c	105236-1	CVR top strike insert
3d	105249	CVR Bottom strike (top and bottom rod device only)
4	105985-1	Top latch mounting bracket RHR
	105985-2	Top latch mounting bracket LHR
5	106340-1	Top latch (Panic)
	106340-2	Top latch (Fire)
6	104187	Outer top rod, 7' thru 8'

	105097	Outer top rod, 8'-1" thru 10'
7	104172-1	Inner top rod, 7' thru 8'
	104172-2	Inner top rod, 8'-1" thru 10'
8	105990-1	Center lift mechanism assembly, Top & Bottom
	105990-2	Center lift mechanism assembly, Top ONLY
9	105098	CVR bottom rod (top and bottom rod device only)
10	106330	Bottom bolt case assembly (top and bottom rod device only)
11	105296	Spring pin 3/16 x 13/16
12	103423	Spring pin 3/16 x 1/2
13	105982-1	Bottom bolt mounting bracket, RHR (top and bottom rod device only)
	105982-2	Bottom bolt mounting bracket, LHR (top and bottom rod device only)
14	101607	Spring pin 3/16 x 5/8 (top and bottom rod device only)
15	103536-1	Bottom bolt (top and bottom rod device only)
	101642-9	Endcap, EC1 (ramped) Stainless Steel 630

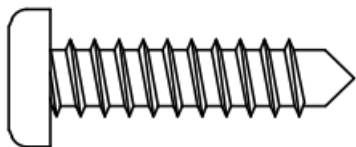

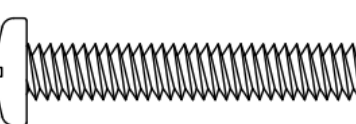
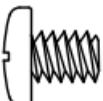
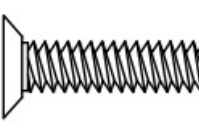
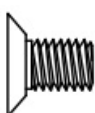


16	104304-9	Endcap, EC2 (flush) Stainless Steel 630
	104612-1	Endcap, EC2 (flush) Aluminum 628
17KIT	106431-1	Device Hardware Kit, HD, EC1 (not all components shown, includes Items 17A & 17C)
	106431-2	Device Hardware Kit, CD, EC1 (not all components shown, includes Items 17B & 17C)
	106431-3	Device Hardware Kit, EA, EC1 (not all components shown, includes Items 17B & 17D)
	106431-21	Device Hardware Kit, HD, EC2 (not all components shown, includes Items 17A & 17E)
	106431-22	Device Hardware Kit, CD, EC2 (not all components shown, includes Items 17B & 17E)
	106431-23	Device Hardware Kit, EA, EC2 (not all components shown, includes Items 17B & 17F)
17a	100450	Hex Key (for Hex Dogging)
17b	100783	Cylinder Nut (for Cylinder Dogging)
17c	100147	Endcap bracket for EC1 (ramped) endcap w/o battery holder
17d	101093	Endcap bracket for EC1 (ramped) endcap w/ battery holder
17e	104303	Endcap bracket for EC2 (flush) endcap w/o battery holder
17f	104636	Endcap bracket for EC2 (flush) endcap w/ battery holder

18	100860-54	Fillerplate Subassembly, S&R, Hex Dogging, HD, 630
	100860-49	Fillerplate Subassembly, S&R, Cylinder Dogging, CD, 630
19	102353-9	Center case Cover, Stainless Steel, Wide 630
	104640-9	Center case Cover, Aluminum, Wide, 628
20	102216-2	Hex Dogging Assembly
	102216	Cylinder Dogging Assembly

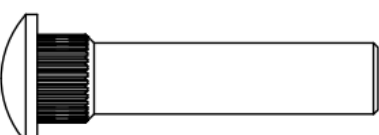
Your particular part or configuration may not be shown: Contact Detex technical support at 800-729-3839 (option 2)

Hardware Table for BASIC device mounting. Additional hardware is provided per the device configuration in kit form and is addressed on the appropriate pages as required.

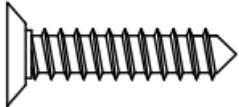

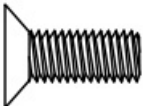
Device Mounting Hardware

	#14 x 1" PPHS P/N: PP-5183-108	Used to install backplate & endcap bracket to the door. Drill Bit – 3/16 pilot hole x 1" deep
	1/4-20 x 1" PPH P/N: 100980	Used with sex bolts or lever trim (1-3/4 door). Drill Bit – #7 or 13/64"
	1/4-20 x 1-1/2" PPH P/N: 100954	ALTERNATE SCREW Used with sex bolts or lever trim (2" plus door) Drill Bit – #7 or 13/64"
	10-24 x 1/4" PPH P/N: PP-5304-104	Used to install device center case to the backplate
	10-24 x 3/4" PFH P/N: 100112-110	Used to install center lift mechanism to the backplate
	10-32 x 5/16" PFHU P/N: 101632-2	Used to install endcap to endcap bracket. (Multiple finishes included)
	6-32 x 3/8" PFHU P/N: 100162-106	Used to install center case cover to backplate (Multiple finishes included)
	1/4" Lockwasher P/N: PP-5067-25	Lockwashers

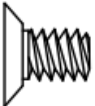
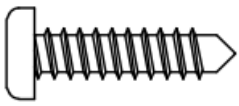
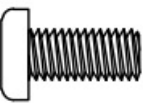
Sex nuts, if ordered. Sex nuts are used with screws in the device hardware kit.

	1/4-20 x 1.60 Sex nut P/Ns: 105274-9 (Stainless Steel) 105274-2 (Brushed Brass) 105274-25 (Oil Rub Bronze)	Used to install backplate and endcap bracket to door If using sex nuts with TRIM: Drill 9/32 hole through interior door face. Drill 1/2 hole through exterior door face. If using sex nuts without TRIM: Drill 3/8 hole through the exterior door face.
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Strike Mounting Hardware

	#10 x 1" PFHU P/N: 100109	Used to install bottom strike to the floor. (Used with anchors, two styles of anchors included)
	10-24 x 1/2" PFHU P/N: 100112-108	Used to install bottom strike to the floor (alternative)
	10-32 x 1/2" PFH P/N: PP-5802-308	Used to install top strike pocket to the header and strike insert to top strike pocket

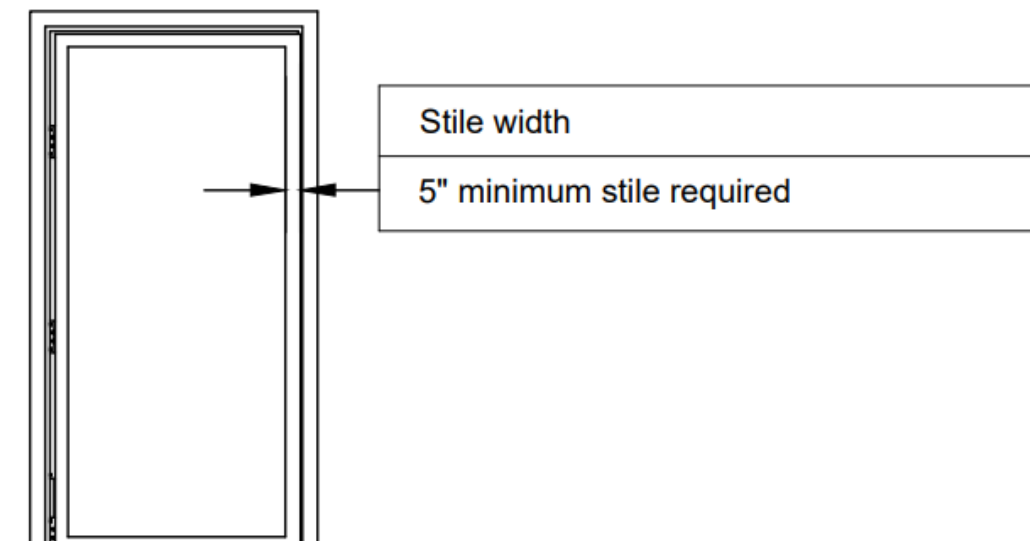
Latch Mounting Hardware

	10-24 x 5/16" PFH P/N: 100112-105	Used to install a bracket to bottom assembly and top latch
	10-32 x 1/2" PPH P/N: 12403-1	Used to install a top latch to top of the door (For FIRE RATED)
	#10 x 3/4" PPHS P/N: PP-5183-66	Used to install bottom assembly to the bottom of door & top latch to top of the door (For NON-FIRE RATED)

Tools Required

Power Drill Level Screw Drivers	Hammer Pencil Center Punch	Drill Bit Set Pliers	Safety Glasses Tape Measure	Hack Saw (Chopsaw preferred) Tap Wrench/ Hex Wrench 5/64 Masonry Bits – 3/16", 5/16" & 1"
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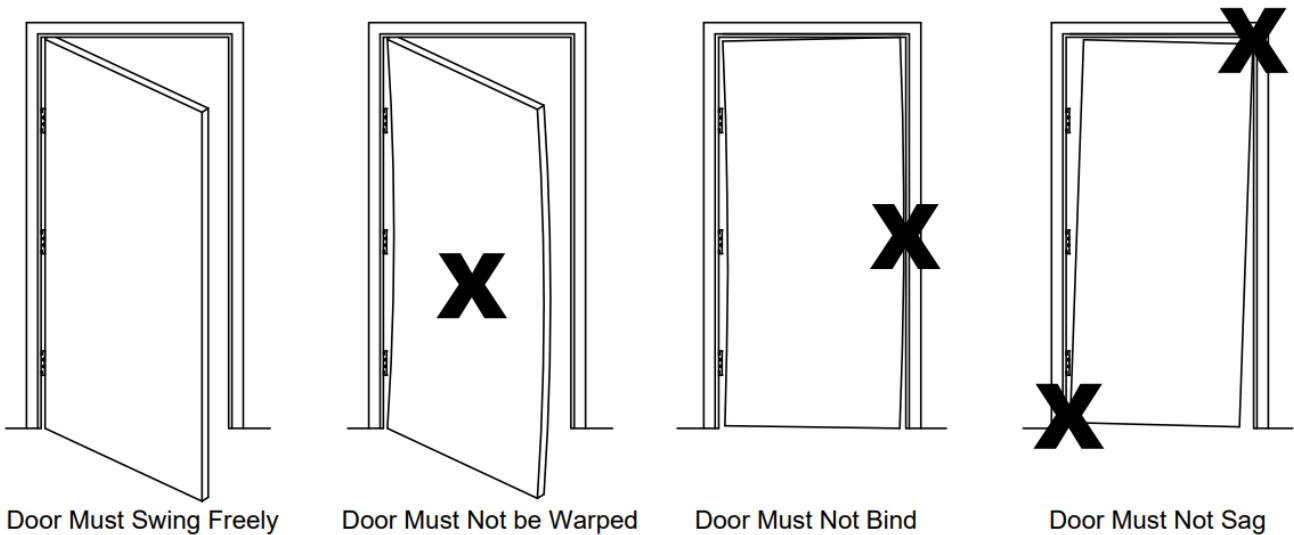
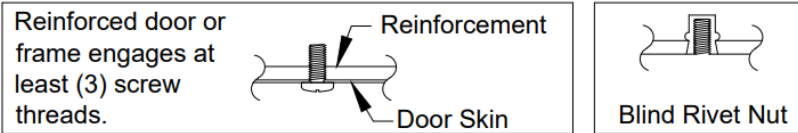
!!!CHECK BEFORE STARTING!!!



Doors and frames with walls having a structural thickness (metal skin plus reinforcement) to engage less than (3) full screw threads are considered unreinforced for hardware.

Unreinforced Doors: Use Sex Nuts and Bolts
Unreinforced Frames: Use Blind Rivet Nuts (see sketch).

Fasteners for unreinforced openings are not supplied by Detex.

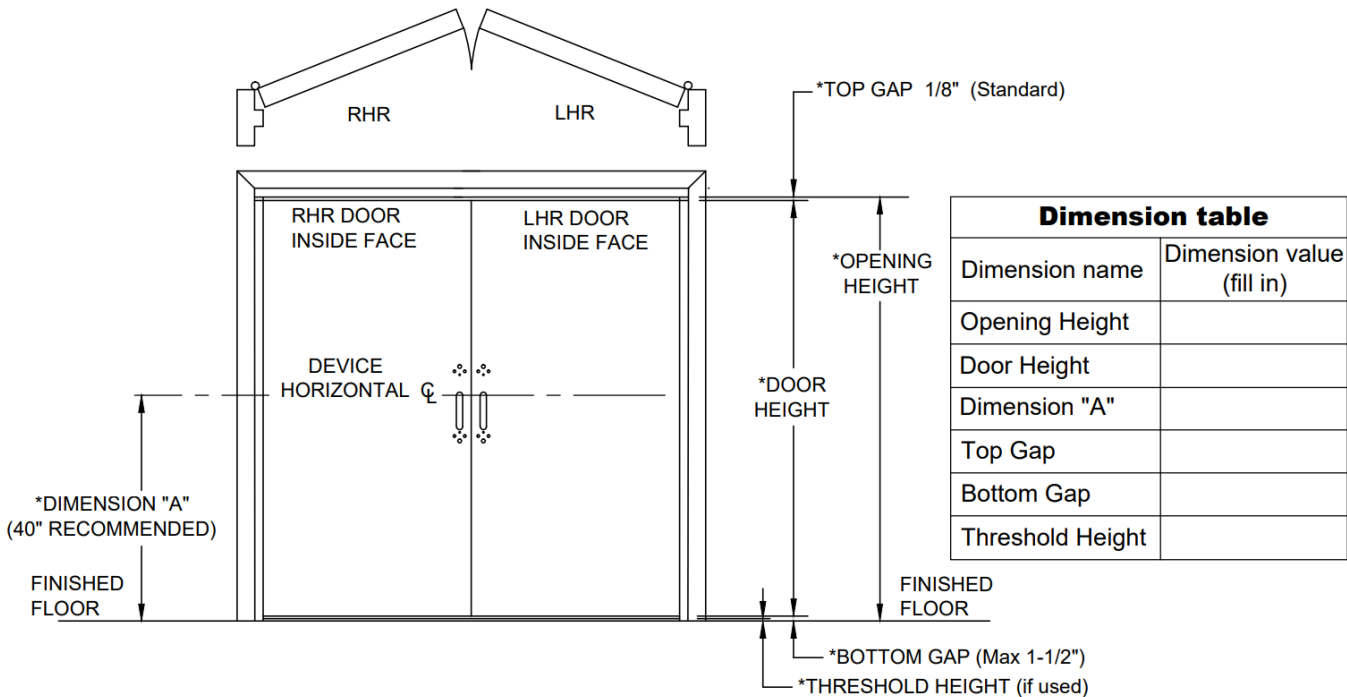


NOTE: LOCAL CODES MAY REQUIRE THROUGH BOLTING. SEX NUTS ARE NOT INCLUDED WITH THIS DEVICE. SEX NUTS CAN BE PURCHASED SEPARATELY.

STEP 1: DOOR / OPENING MEASUREMENTS

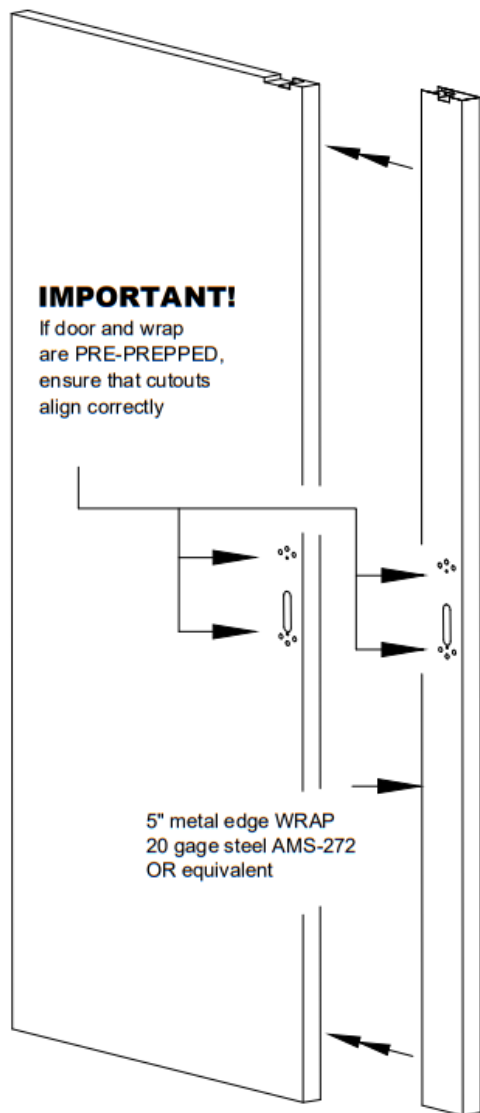
Measure per figure below:

*These dimensions will be needed during rod length adjustment. Measure door before removing.



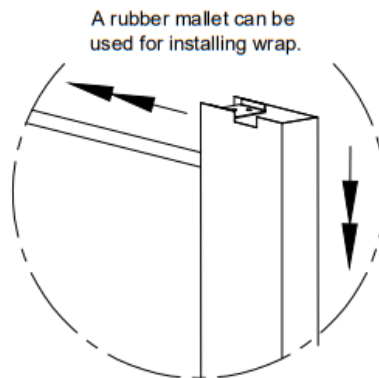
STEP 2: VERIFY DOOR & INSTALL WRAP

FOR F70 & F71 FIRE-RATED APPLICATIONS ONLY. FOR NON-FIRE, SKIP TO STEP 3

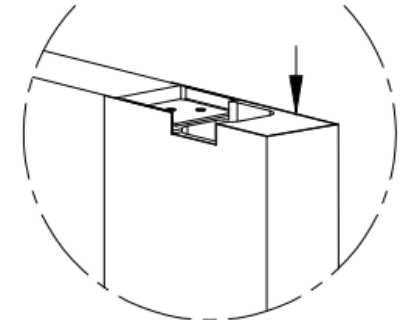


WRAP PREP

(PREP door before installing wrap)



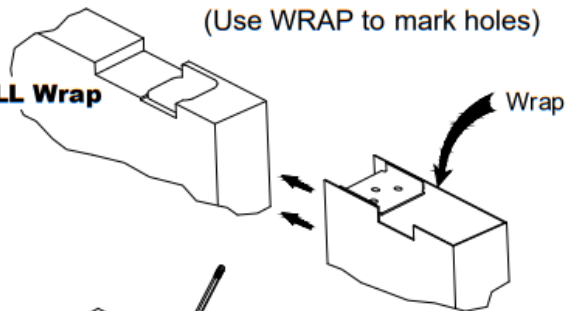
INSTALL wrap per manufacturer's instructions



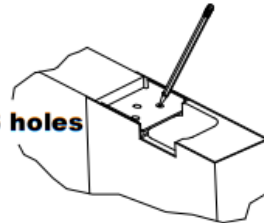
DOOR PREP

(Use WRAP to mark holes)

2a INSTALL Wrap

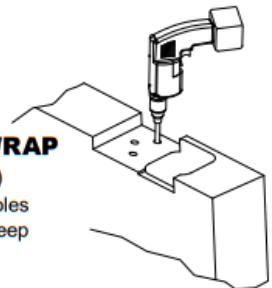


2b MARK 3 holes

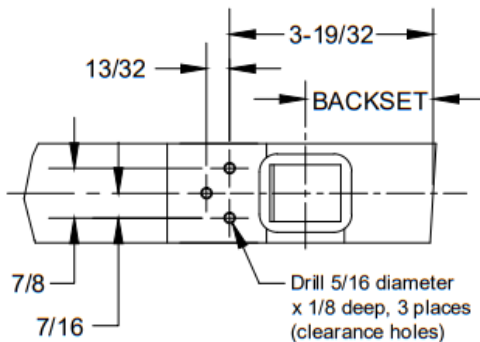
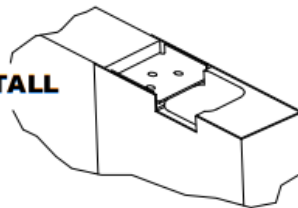


2c REMOVE WRAP & DRILL (3)

CLEARANCE holes
5/16 dia x 1/8 deep



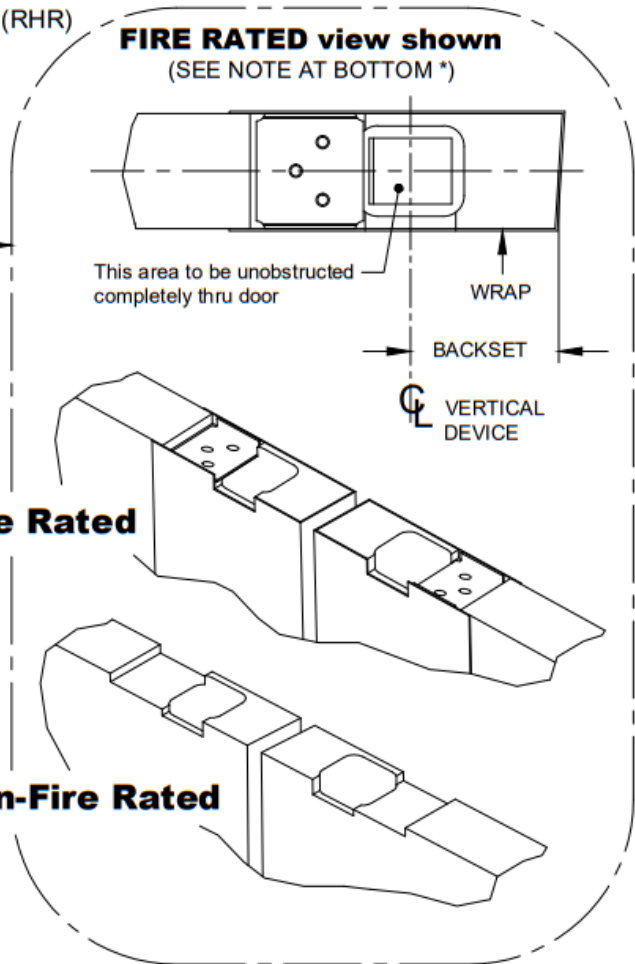
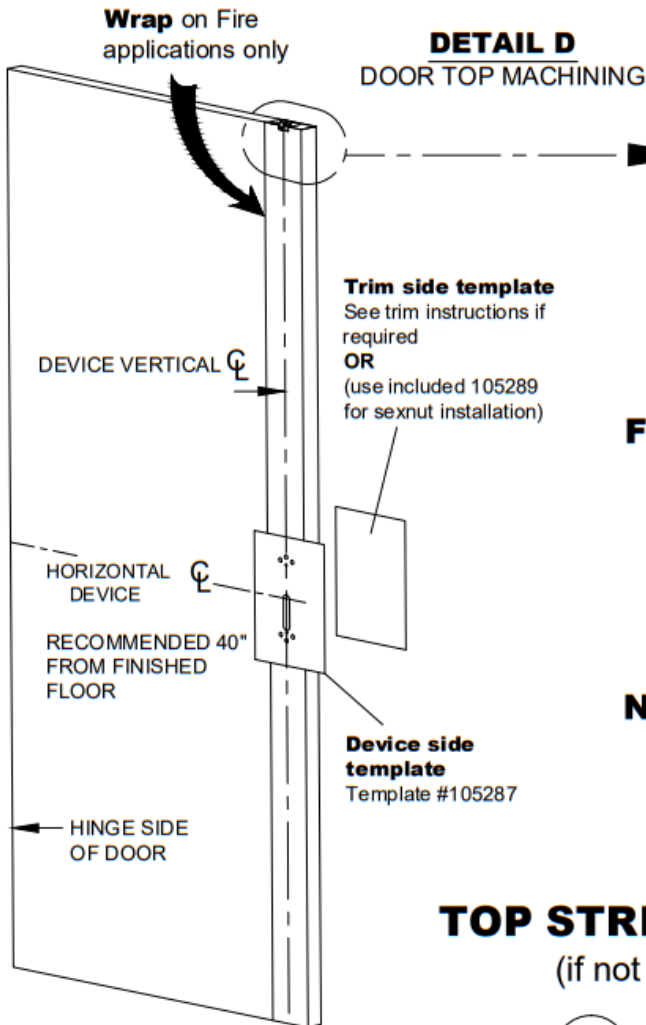
2d RE-INSTALL Wrap



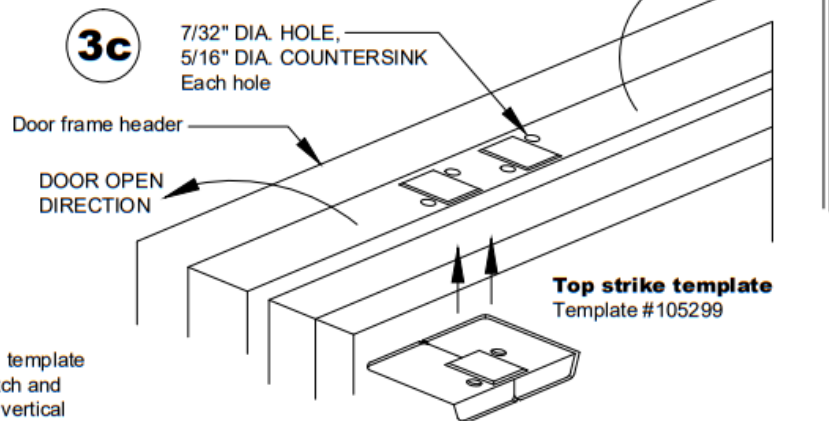
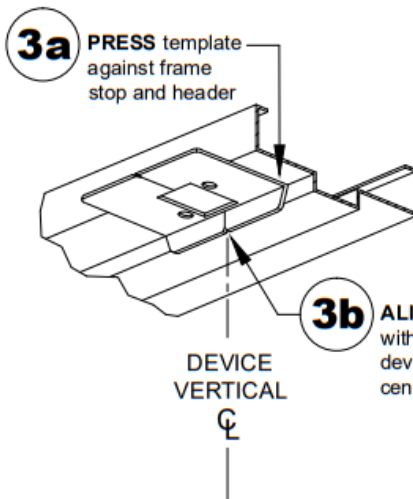
STEP 3: DOOR PREP for FIRE & NON-FIRE rated applications

Installation shown in this instruction is for right-hand reverse (RHR) Left hand reverse (LHR) will be opposite

Installation shown in this instruction is for right hand reverse (RHR)
Left hand reverse (LHR) will be opposite



TOP STRIKE FRAME PREP (if not already prepped)



STEP 4: TOP ROD ASSEMBLY & INITIAL ADJUSTMENT

For 6'-8" (80") to 8'-0" (96") Door

4a. Align hole A in rod 104187 with a hole in the top latch as shown at right & tap the 13/16" long pin into the latch hole.

4b. Measure DIM B as shown below.

4c. Use chart to determine pinning location of rods 104187 & 104172-1.

Round DIM B to the nearest value in the chart.

If more than 3/4" different from one of these chart values, drill a .189 (#12 drill bit) diameter hole halfway between the 2 holes nearest to the measured

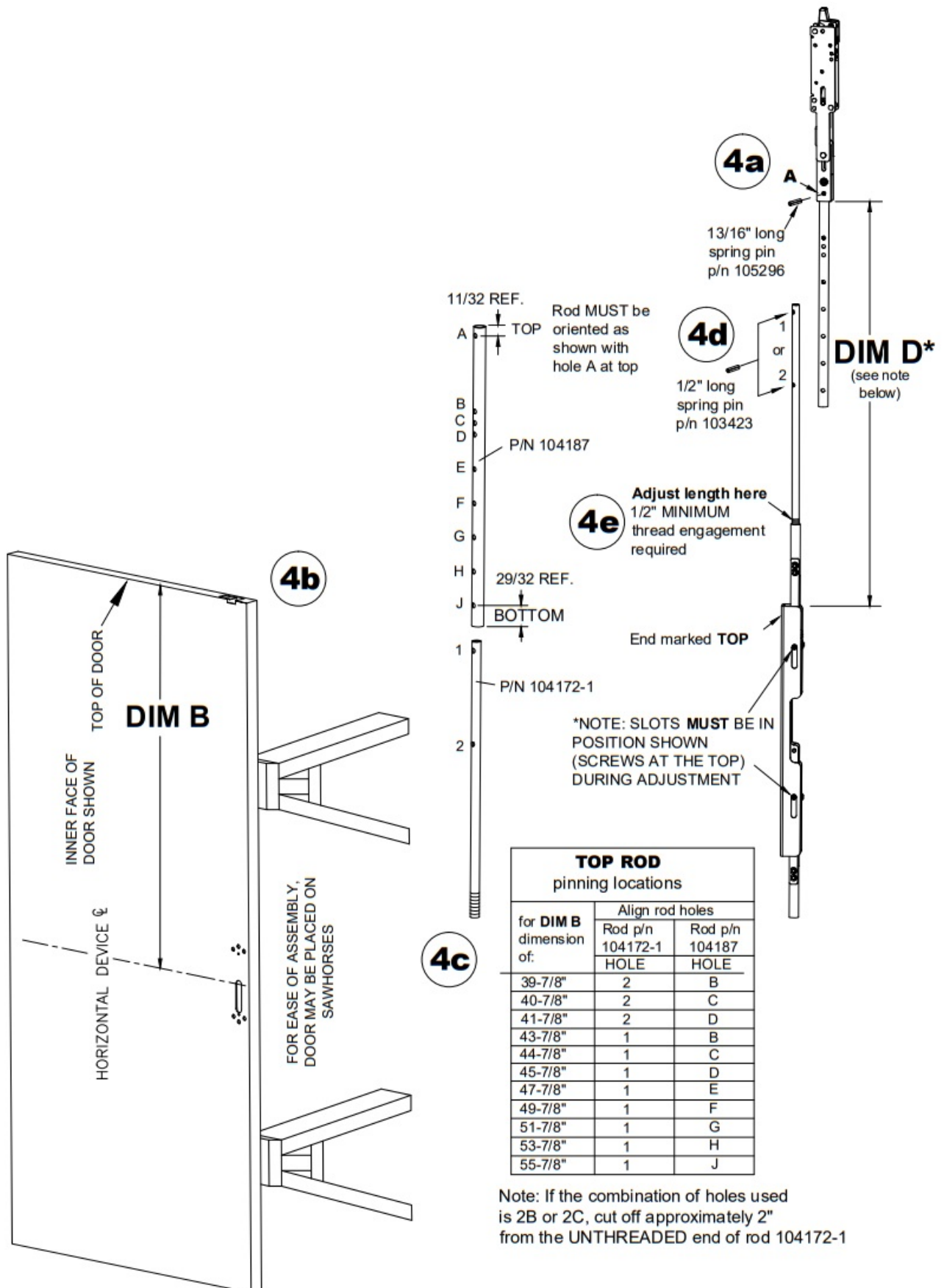
DIM B and use this hole as a pinning hole in the next step.

4d. Insert 104172-1 rod into 104187 rods & line up appropriate pinning holes (from the chart) on both rods and tap in the 1/2" long pin to secure.

4e. Calculate DIM D:

(DIM D = measured DIM B minus 15 7/8")

Thread the assembled rods/latch into the center lift mechanism assembly as shown at right until DIM D is achieved (within 1/16").



For 8'-1" (97") to 10' (120") Door (Non-Fire Rated Applications Only)

4a. Align hole A in rod 105097 with a hole in top latch as shown at right & tap the 13/16" long pin into latch hole.

4b. Measure DIM B as shown below.

4c. Use chart to determine pinning location of rods 105097 & 104172-2.

Round DIM B to the nearest value in the chart.

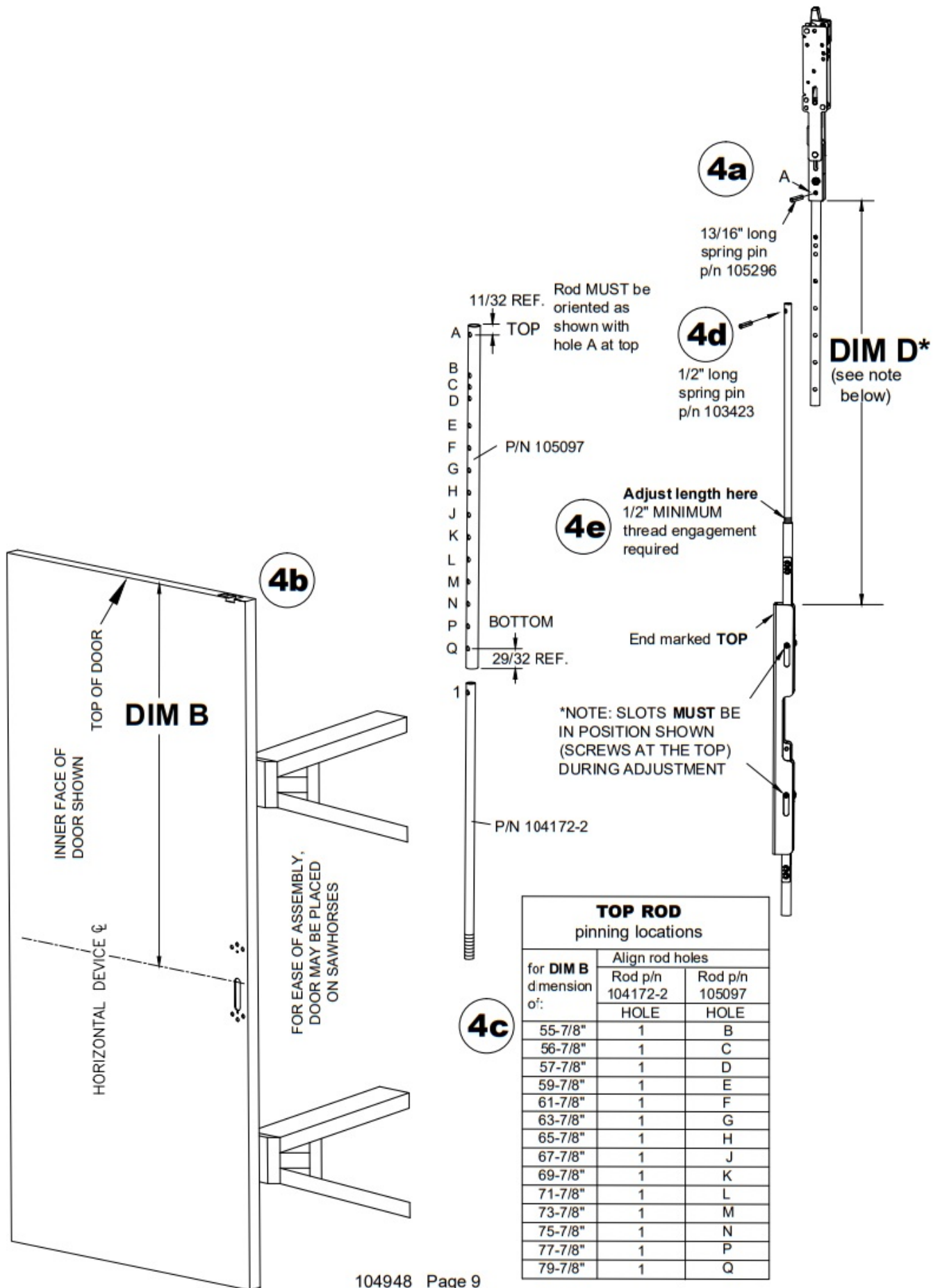
If more than 3/4" is different from one of these chart values, drill a .189 (#12 drill bit) diameter hole halfway between the 2 holes nearest to the measured DIM B and use this hole as a pinning hole in the next step.

4d. Insert 104172-2 rod into 105097 rods & line up appropriate pinning holes (from the chart) on both rods and tap in the 1/2" long pin to secure.

4e. Calculate DIM D:

(DIM D = measured DIM B minus 15 7/8")

Thread the assembled rods/latch into the center left mechanism assembly as shown at right until DIM D is achieved (within 1/16").



STEP 5: BOTTOM ROD / LATCH ASSEMBLY & ADJUSTMENT

(Disregard if the TRO device is being installed)

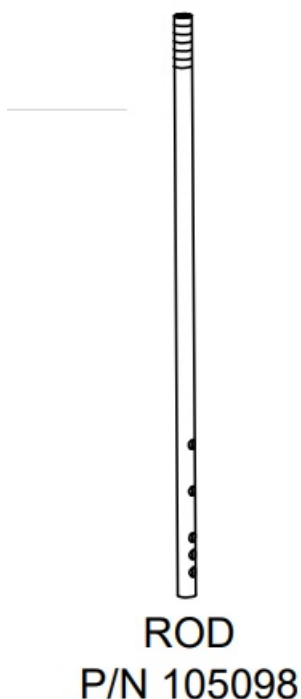
5a. Using DIM A as measured in step 1, use the chart to determine the pinning location.

If DIM A is less than 37-1/4" from the finished floor, a new pinhole must be drilled through the 105098 rods. Subtract the centerline dimension from 38" and measure up this distance from hole V.

Mark and drill a .189-diameter hole (#12 drill).

If DIM A is more than 41-1/2", from the floor, call customer service at 1-800-729-3839 for assistance.

Align rod holes with bottom latch (round DIM A to the nearest value shown)	
DIM A (device CL at distance from floor)	Bottom Rod p/n: 105098 use HOLE
38"	V
39"	W
40"	X
40-3/8"	Y
40-3/4"	Z



Note: If hole V or W is used (or if the new hole is drilled closer to the threaded end), trim off UNTHREADED end of rod as needed to allow rod to slide into the bottom bolt far enough to pin.

5b. DIM C is the target length.

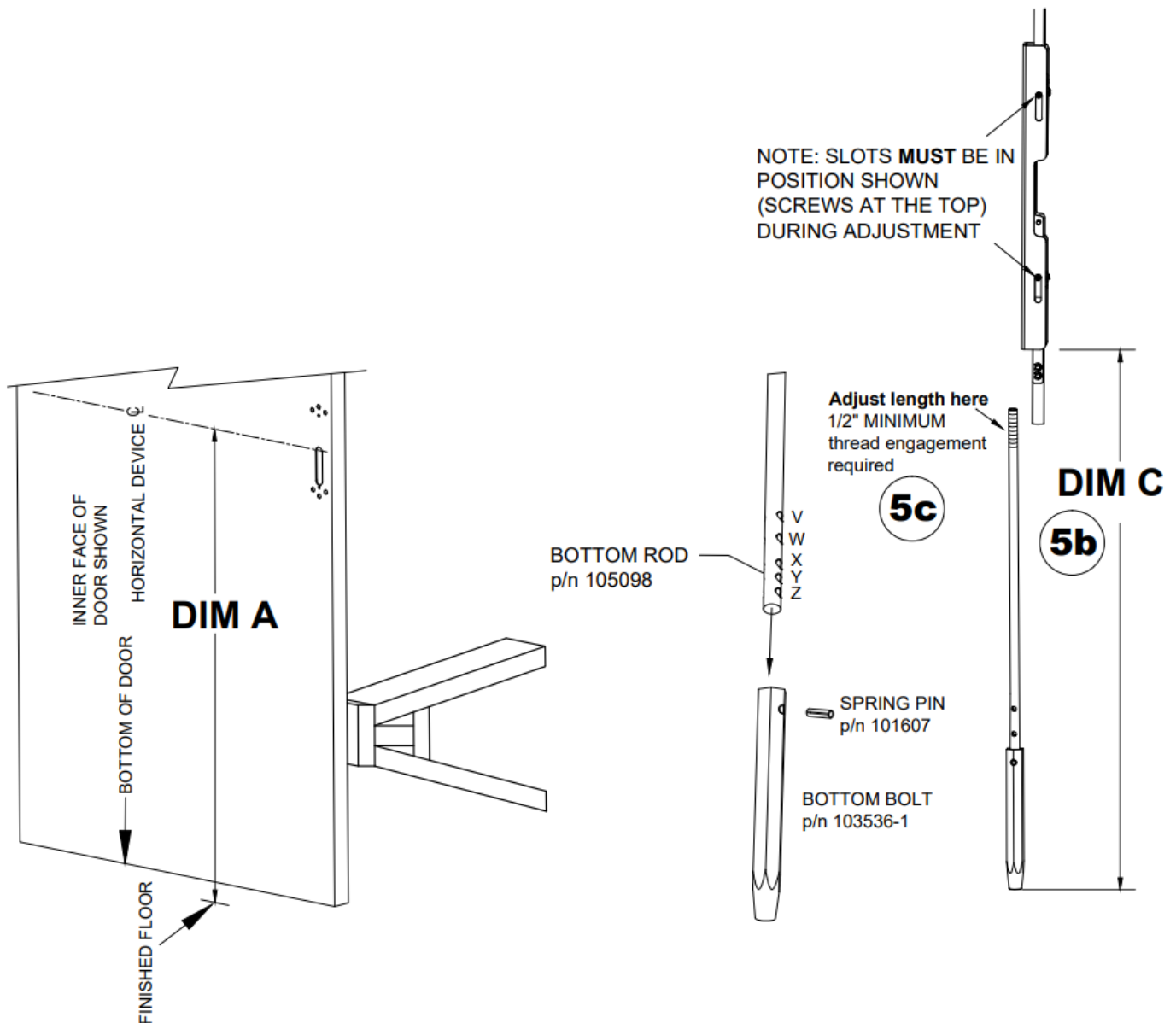
For no threshold or threshold 1/2" or less:

DIM C = measured DIM A minus 8".

For threshold greater than 1/2":

DIM C = measured DIM A minus 8" minus threshold height The bottom bolt vertical travel from fully extended to fully retracted is approximately 9/16.

5c. Thread bottom rod into center lift mechanism to achieve DIM C (within 1/16").



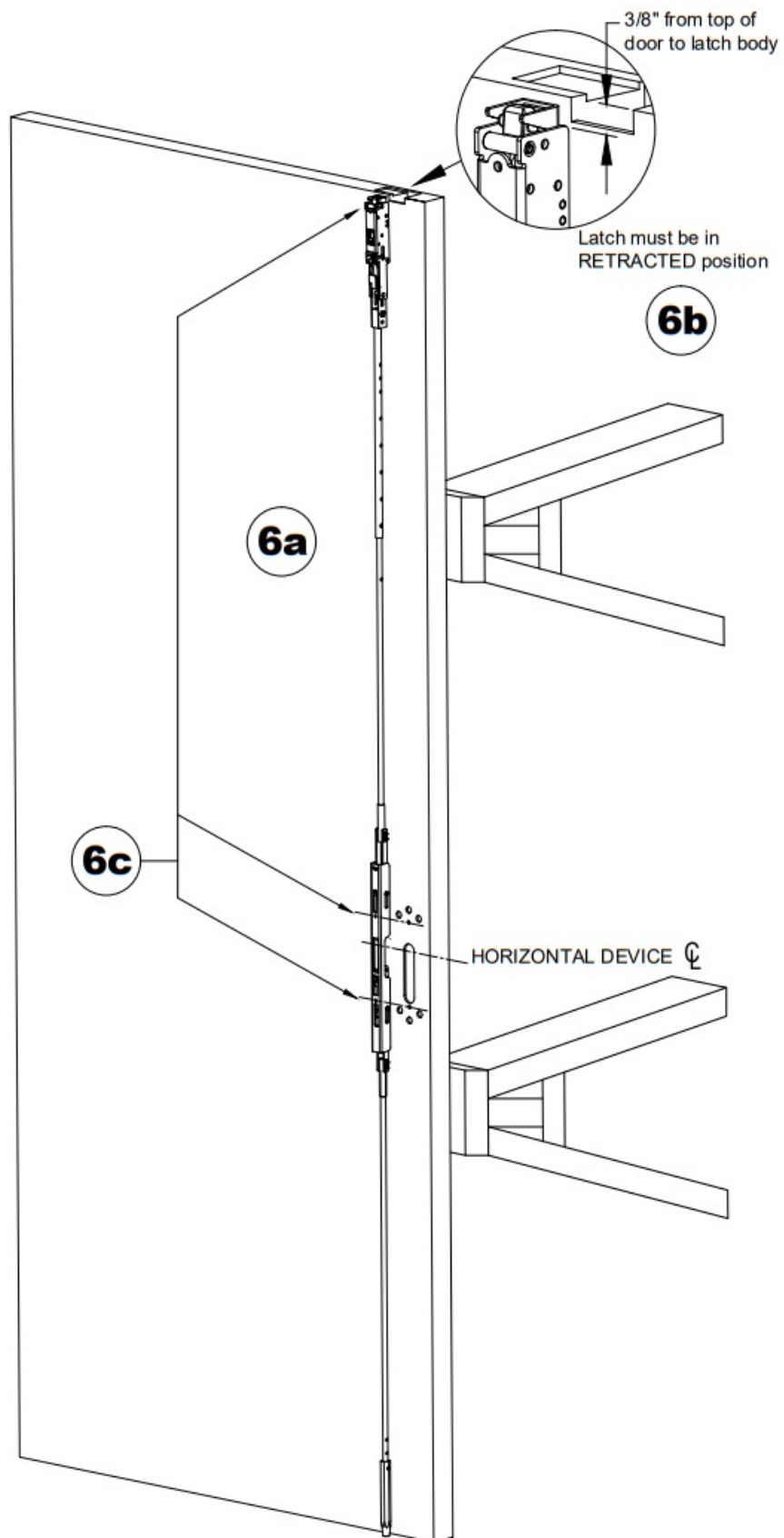
STEP 6: VISUAL ALIGNMENT CHECK:

6a. Lay internal latch components onto the door for a trial fit. Take care to protect the door finish.

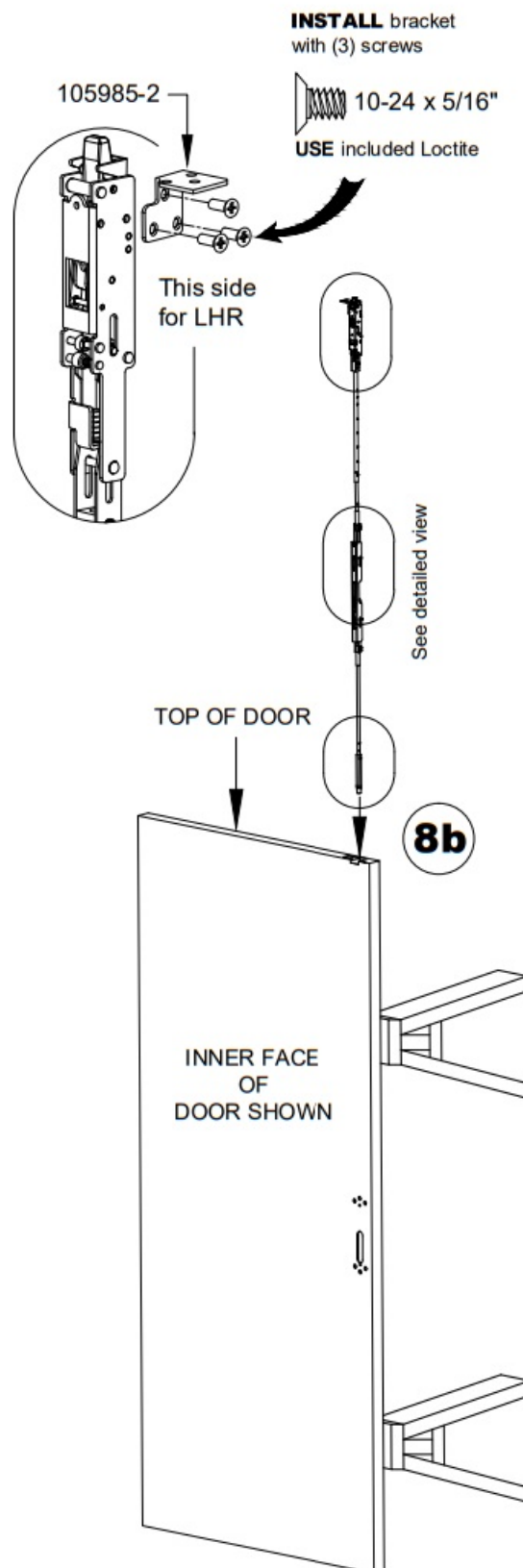
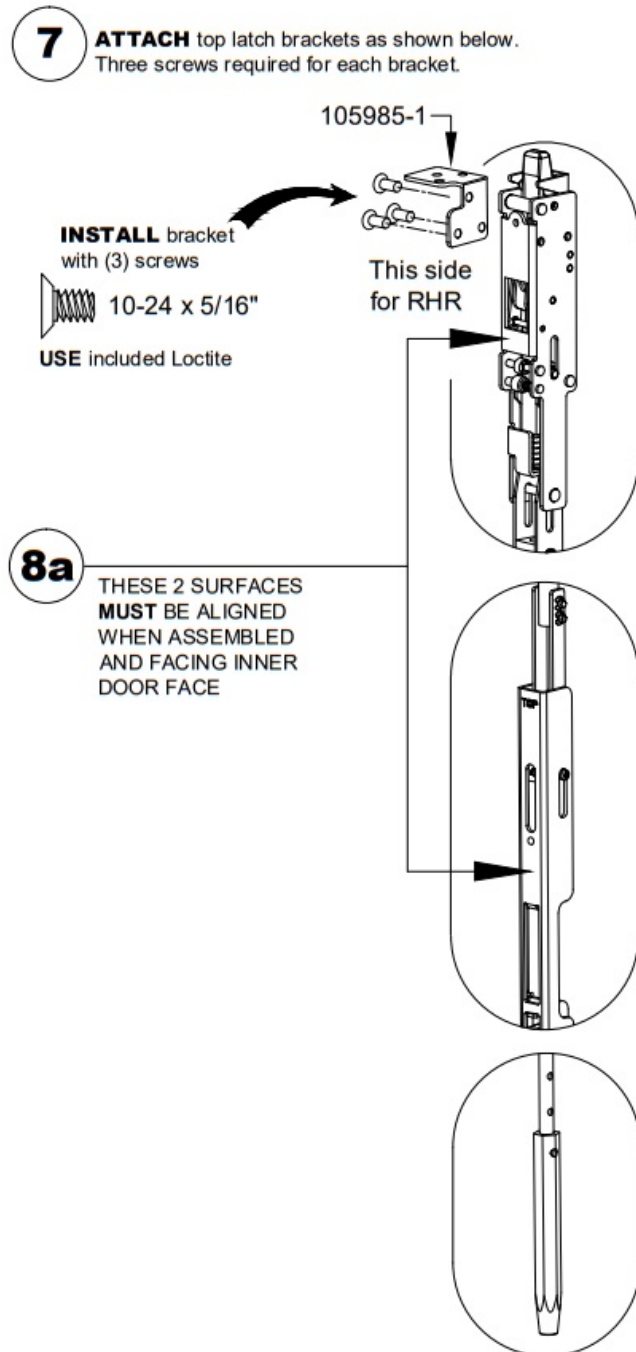
6b. Ensure the top latch is in the retracted position.

Hold the top rod in place and push top latch case towards the device until the latch bolt is fully retracted.

6c. Mounting holes for the center lift should line up with mounting holes in the door, and top and bottom latches should be in the position shown. If not, go back to steps 3 & 4 and verify rod length dimensions.



STEP 7: ATTACH TOP LATCH MOUNTING BRACKETS



STEP 8: INSERT ROD / LATCH / CENTER LIFT ASSEMBLY INTO DOOR

8a. Align surfaces as shown above.

8b. Gently insert assembly through the door top, taking care to maintain assembly orientation.

STEP 9: SECURE ROD / LATCH / CENTER LIFT ASSEMBLY TO DOOR

9a. Attach top latch to door with three screws (six for fire-rated doors).

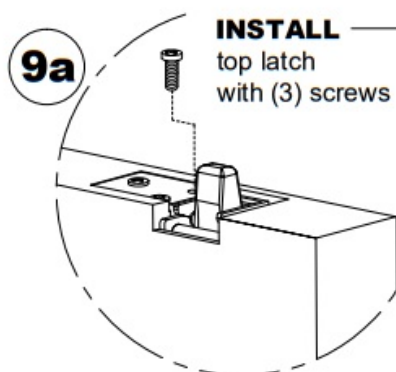
(Disregard steps 9b & 9c if the TRO device is being installed)

9b. Attach the bottom mounting bracket to the bottom latch assembly with three screws.

9c. Attach bottom mounting bracket assembly to door with three screws.

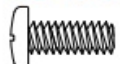
9d. Attach back plate to center lift mechanism with two screws – DO NOT OVERTIGHTEN.

Assembly hint: Assemble one screw loosely without a backplate, then add a second screw through the backplate. Remove the first screw, align the backplate, and then re-install the first screw.



For FIRE RATED

Use 10-32 x 1/2" screws



For NON-FIRE RATED

Use #10 x 3/4" screws



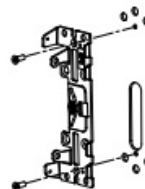
MARK & DRILL

#29 drill x 3/4 deep pilot hole

Install with (3) screws



10-24 x 3/4"



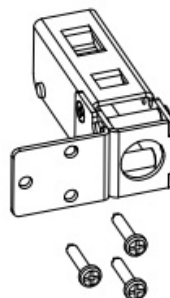
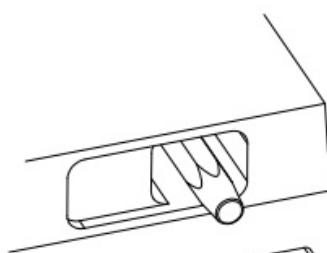
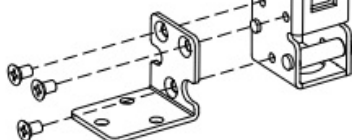
BACKPLATE

BP11 **OR** BP13



10-24 x 5/16"

USE included Loctite



9c MARK & DRILL
#29 drill x 3/4 deep
pilot hole

INSTALL bottom assembly
with (3) screws

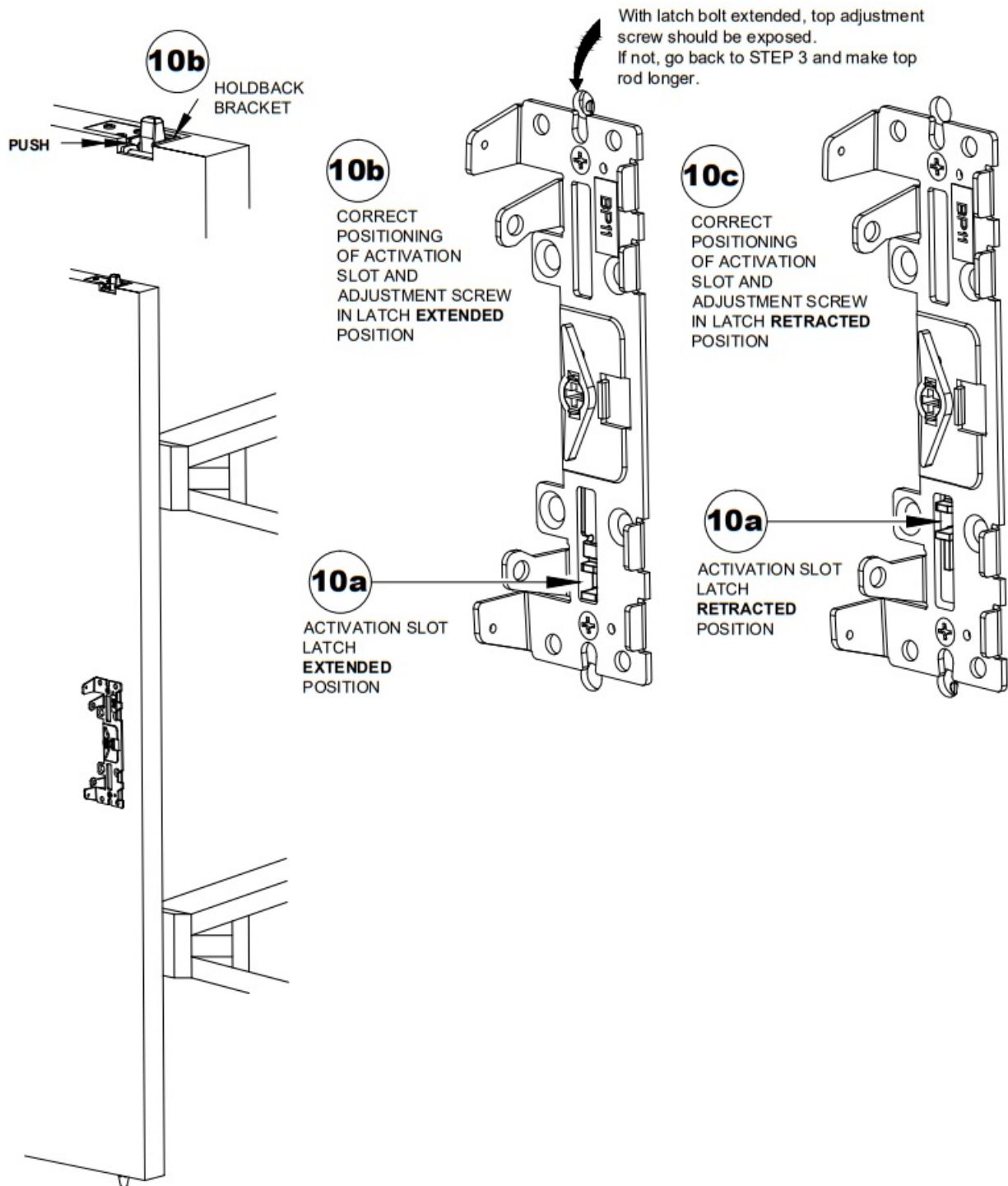
#10 x 3/4"

(VIEWED FROM BOTTOM EDGE OF DOOR)

Note: Bottom bracket may slide up on rod during assembly.

It may be necessary to pull it towards the bottom edge of the door with a simple wire hook.

STEP 10: VERIFY CENTER LIFT MECHANISM OPERATION



10a. Check the current center-left position using the views shown.

10b. To extend latches, push and hold down on the holdback bracket to disengage the retraction feature, then use a screwdriver inserted into the activation slot to gently lower the slot to the extended position as shown.

10c. To retract latches, gently insert a screwdriver into the activation slot and raise the slot to the retracted position as shown.

TROUBLESHOOTING:

If the latch bolt is fully extended while the activation slot is not fully in the extended position, then the top rod is too short. Go back to STEP 4 and correct.

If the latch bolt is partially retracted while the activation slot is fully in the extended position, then the top rod is too long. In this case, the latch bolt will be fully retracted before the activation slot can travel fully to the retracted position.

Go back to STEP 4 and correct.

10d. Bottom bolt drag check:

With the top latch in the retracted position, check to ensure that the bottom bolt is not extending from the bottom of the door a distance greater than the bottom gap at the finished floor (minus the threshold height if the threshold is

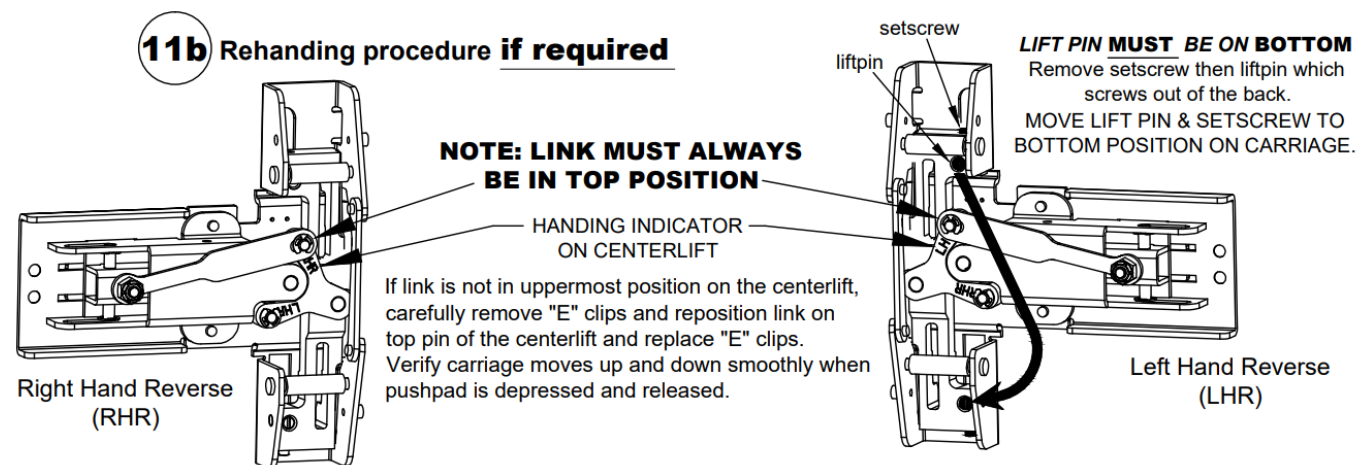
used).

If it is, then the bottom rod is too long. Go back to STEP 5 and correct it.

10e. Upon completion, retract latches before proceeding to Step 11.

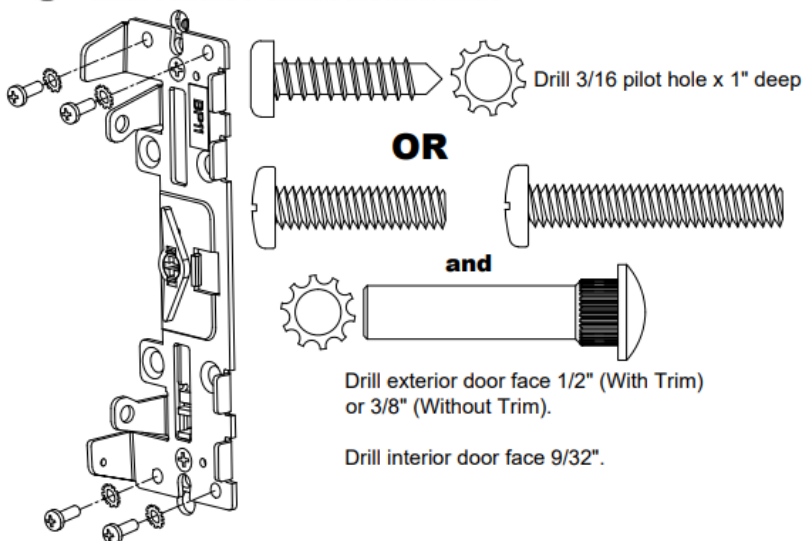
STEP 11: HANG DOOR / ASSEMBLE DEVICE TO DOOR

INSTALL DOOR ONTO FRAME PER MANUFACTURER'S SPECIFICATIONS

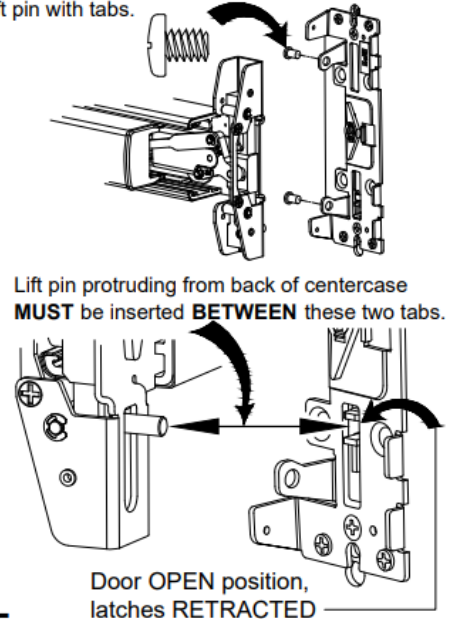


REFER TO TRIM INSTRUCTIONS AT THIS TIME, IF APPLICABLE

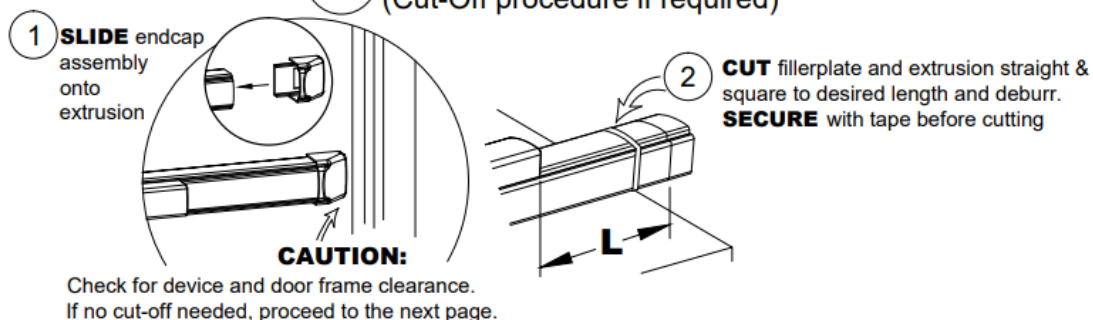
11d COMPLETE BACKPLATE MOUNTING
Install 4 screws or sexnuts and lockwashers



11e INSTALL DEVICE TO BACKPLATE
Install device to backplate & fasten with 2 screws. Depress pushpad appropriate amount to line up lift pin with tabs.

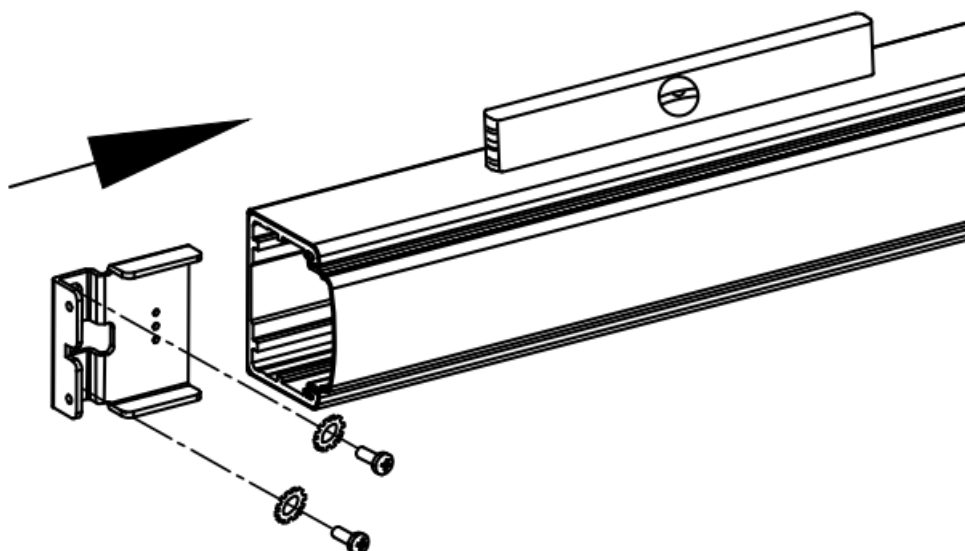


11f CHECKING FOR DEVICE CLEARANCE
(Cut-Off procedure if required)



For aluminum Advantex finish cutdown applications: After cutting, the baseplate extrusion can be reversed to place the cut end inside the head cover. To do so, loosen the setscrew inside the aluminum baseplate extrusion and slide extrusion out, reverse, & slide back in. Tighten setscrew.

INSTALL ENDCAP BRACKET



INSTALL bracket with (2) lock washers & screws OR screws & sex bolts

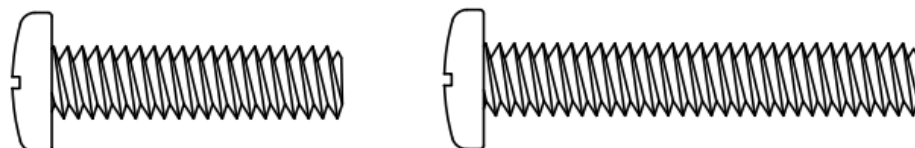
LEVEL device before installing the endcap bracket

ENSURE that the device does not require cutting (see Step 11g on next page).

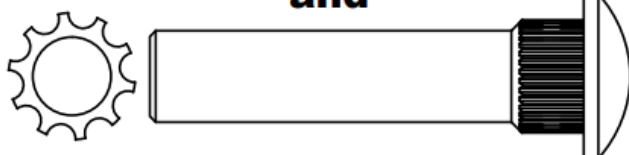
TEST device function after installation of endcap is complete by depressing & releasing push pad. Action should be smooth with full return of push pad and latch travel.



OR



and



Drill exterior door face 1/2" (With Trim)
or 3/8" (Without Trim).

Drill interior door face 9/32".

MORTISE CYLINDER INSTALLATION

11h

CD (Cylinder Dogging) Cylinder Installation

Cylinder nut socket
p/n 103779
(sold separately)

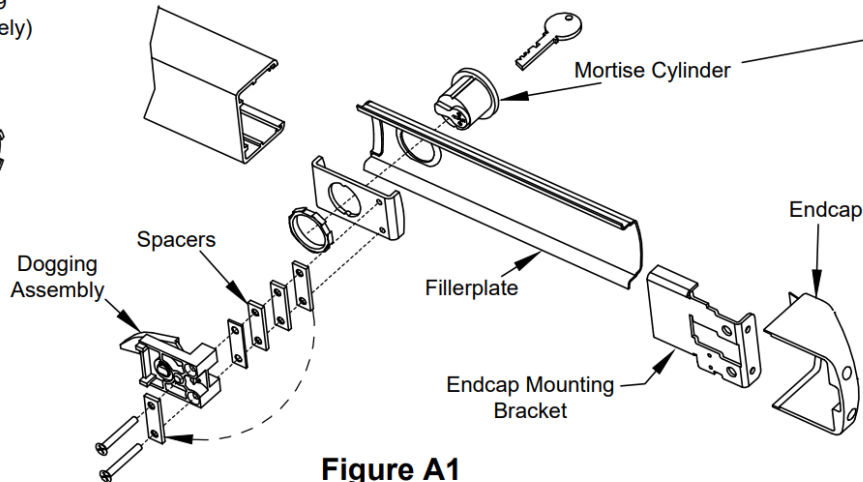
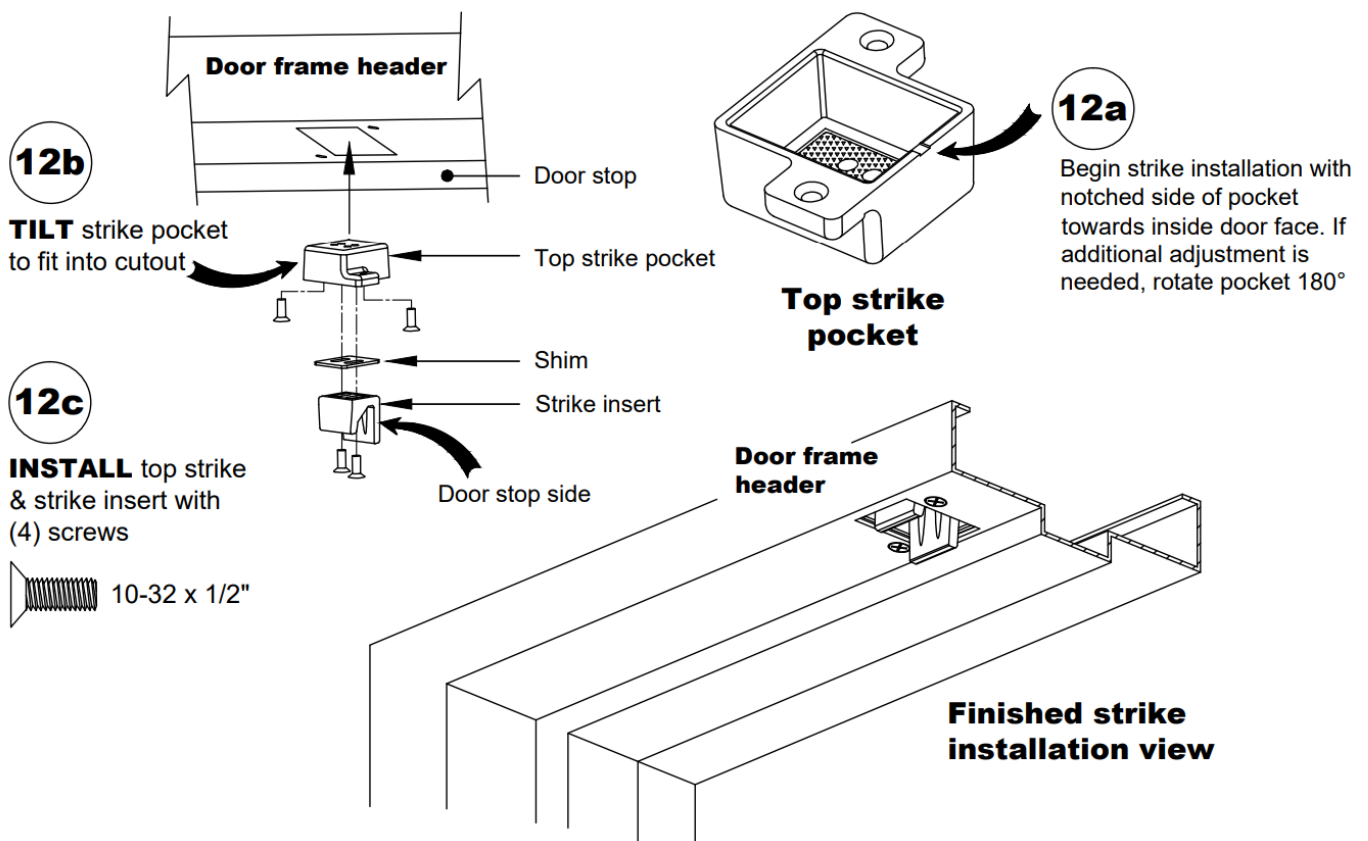


Figure A1

Follow steps "a" through "g" for CD installations

- Remove endcap and endcap mounting bracket.
 - Remove filler plate.
 - Remove and discard shipping insert and nut. Loosen (2) screws from the dogging assembly.
 - Install mortise cylinder (sold separately) with large hex nut provided.
 - Trial fit dogging assembly. If the cylinder is too short, remove spacers as necessary and reattach them under the (2) screw heads. Fasten the (2) screws to the rest of the assembly.
- NOTE:** The key should easily turn in both directions.
- Rotate key counterclockwise
 - Assembly complete. Continue with Panic Hardware instructions.

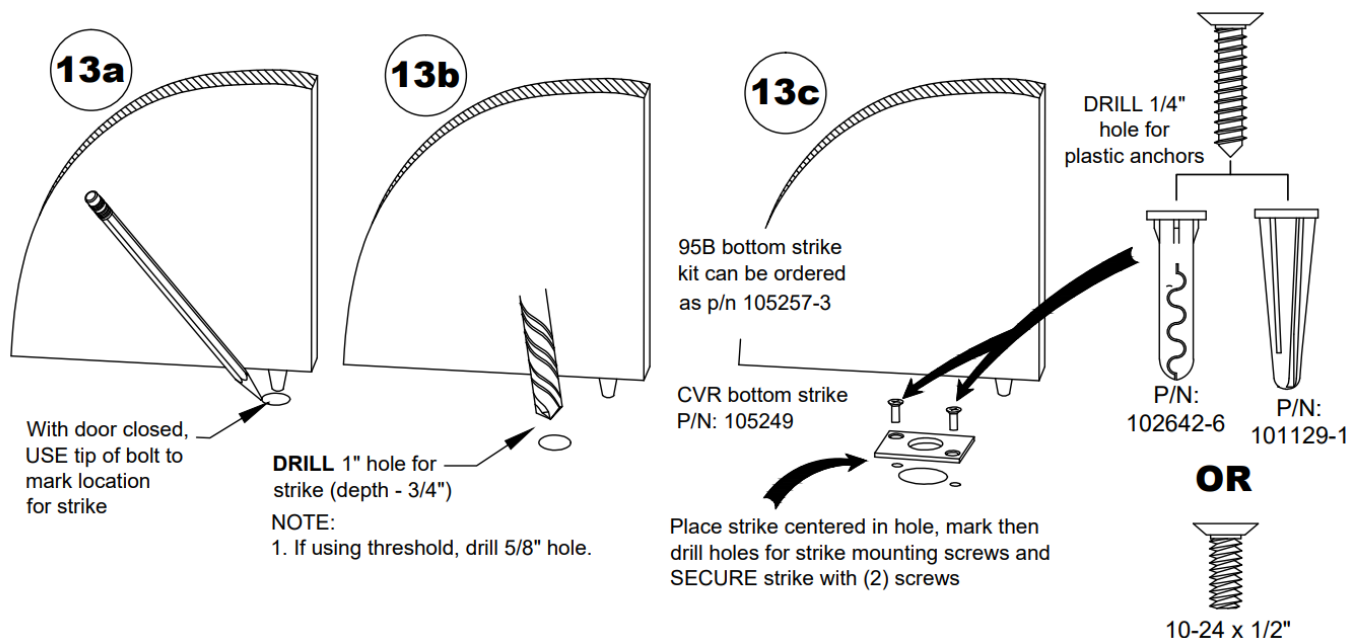
STEP 12: TOP STRIKE INSTALLATION



STEP 13: BOTTOM STRIKE INSTALLATION

(Disregard if TRO device is being installed)

BOTTOM STRIKE HOLE LOCATION & DRILLING



STEP 14: FINE LATCH ADJUSTMENT

14a. Ensure that latches are fully retracted. Gently close the door. Latches should extend when the door is closed.

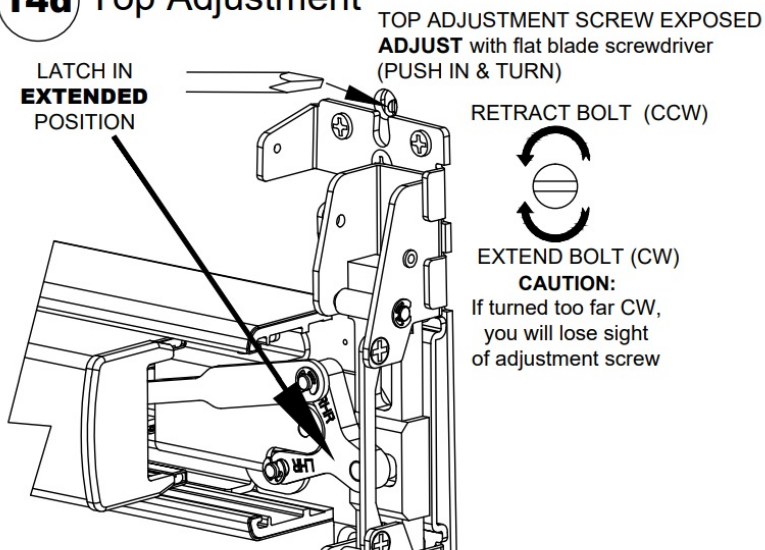
14b. Depress the push pad and open the door. The top latch should clear the top strike & bottom bolt should not drag. Latches should remain in a retracted position with a push pad released.

FINE LATCH ADJUSTMENT (if needed)

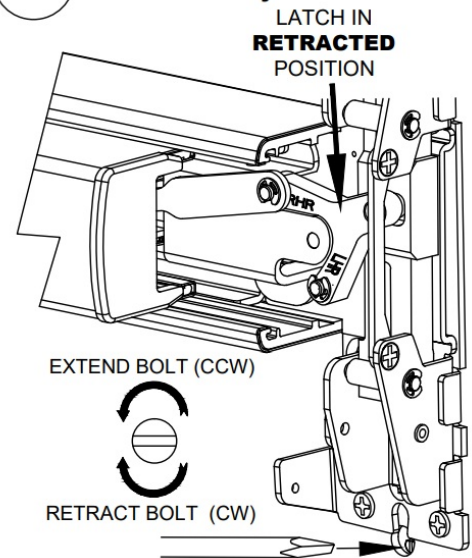
14c. Top strike fine adjustment: Adjust strike engagement by either retaining or removing the shim. Adjust door tightness by moving the insert to the desired position. Note that the strike pocket can be flipped around to achieve additional adjustment (see step 11).

14d: TOP LATCH ADJUSTMENT: With latches extended, turn CCW until the top latch bolt projection begins to visually decrease, then turn CW until the latch bolt projects fully. Rotate CW one additional full turn.

14d Top Adjustment



14e Bottom Adjustment



14e: BOTTOM LATCH ADJUSTMENT: With the push pad depressed (retracted position), extend or retract the bottom bolt to desired engagement and clearance.

14f. Check device operation. Reference STEP 14a & 14b.

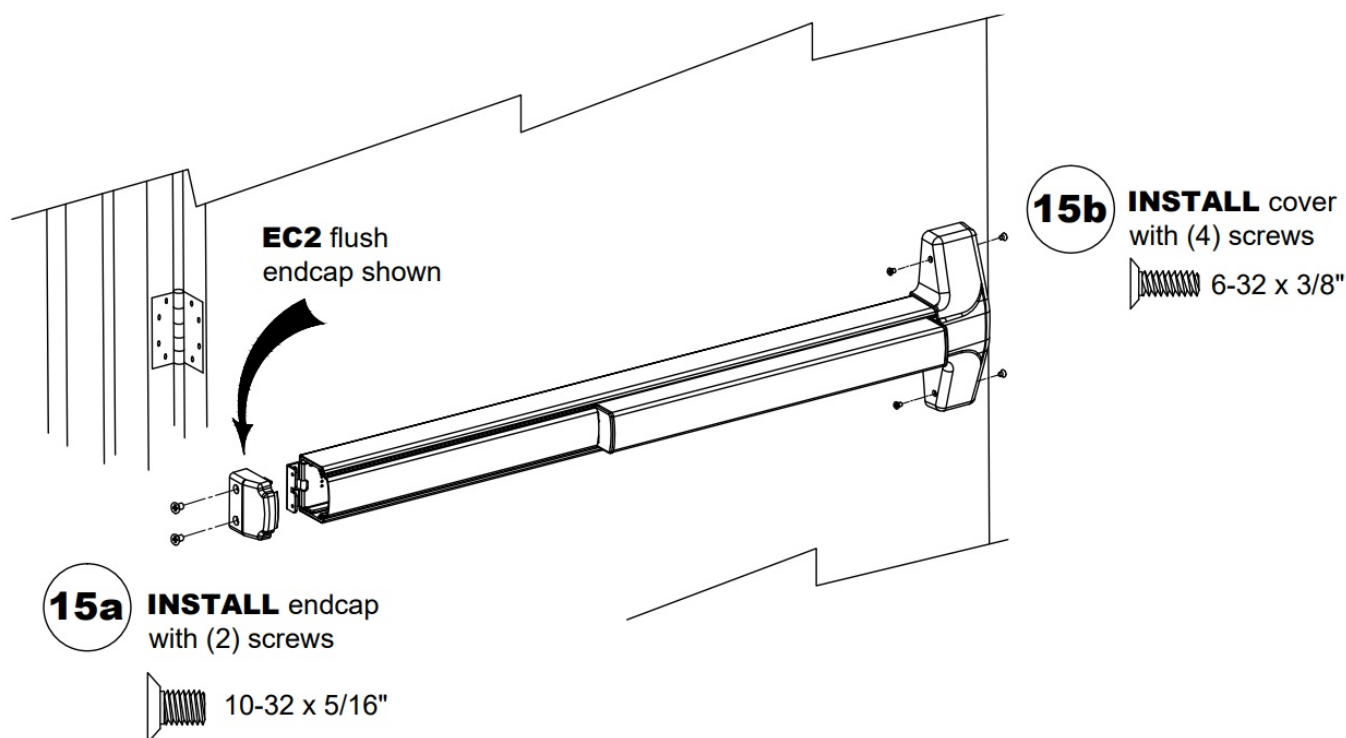
BOTTOM ADJUSTMENT SCREW EXPOSED ADJUST with flat blade screwdriver (PUSH IN AND TURN)

DEVICE OPERATION TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	SOLUTION
The device does not latch when the door closes	The bottom bolt is not properly aligned with the bottom strike hole.	Modify the bottom strike hole for fit.
	The top strike insert is not installed or not correctly aligned with the holdback.	Install and/or position strike insert per instructions.
	Through fasteners for trim (if applicable) are interfering with internal center lift assembly.	Loosen and re-position through screws to clear.
	Rods improperly adjusted	Adjust rods per instructions.
		Remove the device and re-install it per instructions.

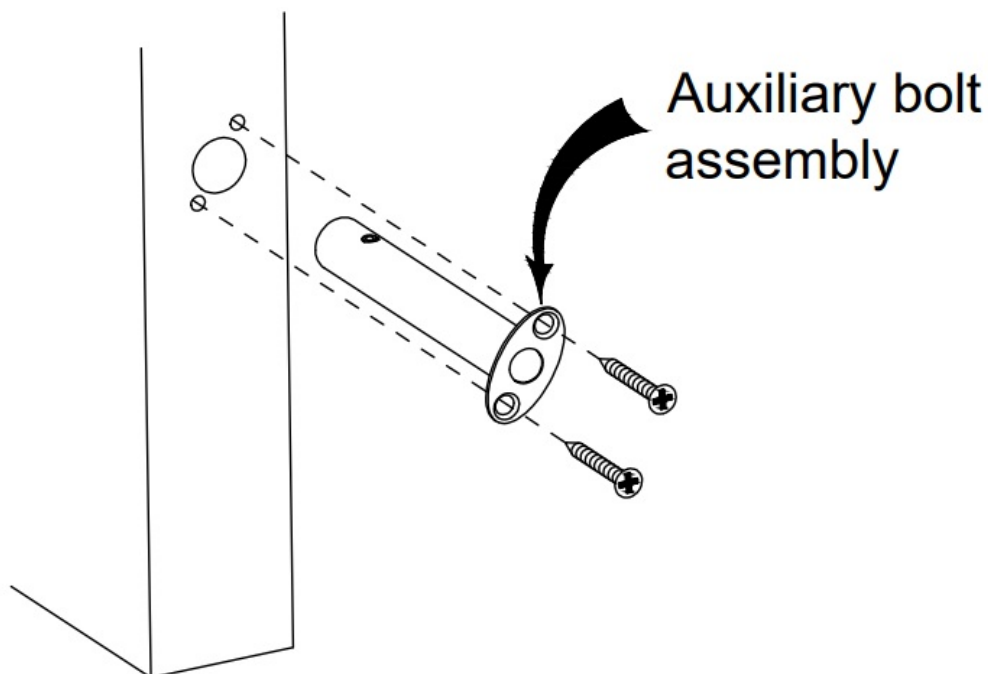
Latches release, but the push pad will not fully depress	Device center case lift finger not inserted properly into center lift assembly.	Remove the device from the backplate and re-install with the lift finger correctly inserted.
	The top adjustment screw is adjusted too far in the retracted direction (CCW).	Rotate top adjustment screw in the extending direction (CW) per the FINE LATCH ADJUSTMENT procedure.
Latches are not releasing when the push pad is fully depressed	Device center case lift finger not inserted properly into center lift assembly.	Remove the device from the backplate and re-install with the lift finger correctly inserted.
	The top adjustment screw is adjusted too far in the extending direction (CW).	Rotate the top adjustment screw in the retracted direction (CCW) per the FINE LATCH ADJUSTMENT procedure.
	The bottom adjustment screw is adjusted too far in the extending direction (CCW).	Rotate the bottom adjustment screw in the retracted direction (CW) per the FINE LATCH ADJUSTMENT procedure.

STEP 15: COVER INSTALLATIONS

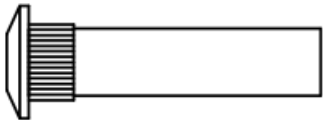
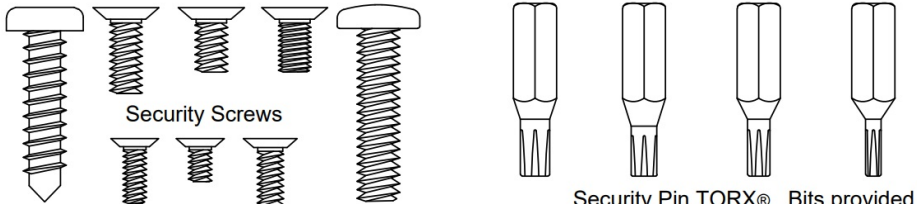



STEP 16: INSTALL AUXILIARY FIREBOLT (F71 ONLY)

See Auxiliary Bolt instructions (p/n 104934) included with kit



Optional Accessories

<p>Sex Nut Kits The #1/4-20 kits are available in 3 finishes: Brushed Brass BHMA 606: p/n 105274-2 Oil Rubbed Bronze BHMA 613: p/n 105274-25 Stainless Steel BHMA 630: p/n 105274-9</p>	<p>Catalog No: SN3 uses screws in hardware kit</p> 
<p>Tamper Kit (Security Kit) Catalog # & Part #: SSK5</p>	
<p>Cylinder nut socket p/n: 103779</p>	

For WARRANTY information, scan code below or go to www.detex.com/warranty



<https://qrs.ly/p9aw78s>

Owner's Copy

Should you have a Question/Problem with your Detex device please call Detex Technical Support from the job site at 1-800-729-3839 and choose option 2 on our menu. Please do not return the product to the distributor.

For device installation videos, scan code below or
go to www.detex.com/videos



<https://qrs.ly/roaw7bp>

Documents / Resources



[DETEX 105280 Concealed Vertical Rod Exit Device](#) [pdf] Instruction Manual
105280 Concealed Vertical Rod Exit Device, 105280, Concealed Vertical Rod Exit Device, Exit Device, Device

References

- detex.com

[Manuals+.](#)