104885



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INSTALLATION INSTRUCTIONS FOR ADVANTEX® CONCEALED VERTICAL ROD

ADVANTEX

Concealed Vertical Rod Exit Device 62 / F62 / 63 / F63 Series for Medium to Wide Stile Hollow Metal door applications Drawing No. 105260

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

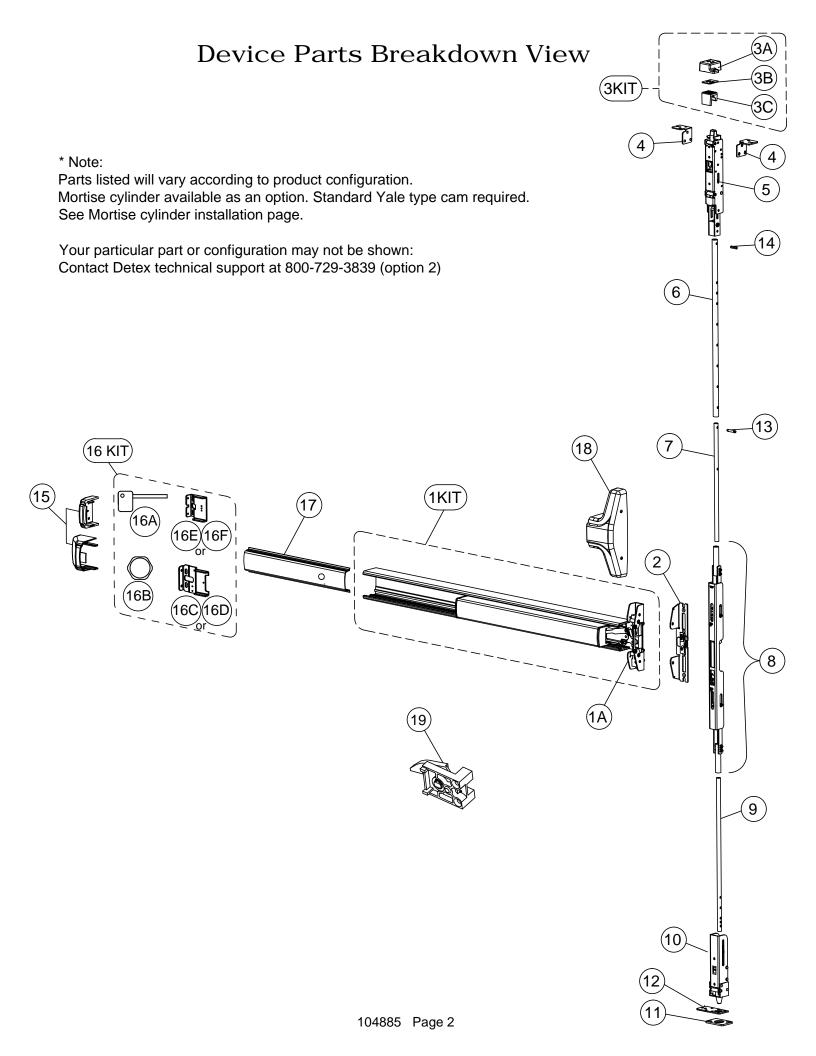
Owner's Copy

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



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.





	Dev	vice Parts Breakdown Part Numbers	
ITEM	PART #	DESCRIPTION	
	105500-162	S&R CVR Centercase/Pushpad Assy, RHR	
1KIT	105500-163	S&R CVR Centercase/Pushpad Assy, LHR	
	104111-1	Centercase, CVR, Narrow, RHR	
1A	104111-2	Centercase, CVR, Narrow, LHR	
	104148-1	Mounting plate, Narrow, CVR, BP10 (Use with 08/09 lever trim)	
2	104148-2	Mounting plate, Narrow, CVR, BP12 (Use with 03 trim)	
3KIT	105257-2	Top strike kit	
3A	105235-1	CVR top strike pocket	
3B	105246	CVR strike shim	
3C	105236-1	CVR top strike insert	
4	104123-1	Top latch mounting bracket RHR	
4	104123-2	Top latch mounting bracket LHR	
104121-1		Top latch (Panic)	
5	104121-2	Top latch (Fire)	
104187 Outer top rod, 7' thru 8'		Outer top rod, 7' thru 8'	
6	105097	Outer top rod, 8'-1" thru 10'	
104172-1 Inner top rod, 7' thru 8'		Inner top rod, 7' thru 8'	
7 104172-2 Inner top rod, 8'-1" thru 10'		Inner top rod, 8'-1" thru 10'	
8 105990-1 Center lift mechanism assembly, Top & Bottom 105990-2 Center lift mechanism assembly, Top Rod Only		Center lift mechanism assembly, Top & Bottom	
		Center lift mechanism assembly, Top Rod Only	
9	105098	CVR bottom rod	
10	104190-2	Bottom latch, HM application	
11	105257-3	Bottom strike kit	
12	104166	Bottom latch mounting bracket	
13	103423	Spring pin 3/16 x 1/2	
14	105296	Spring pin 3/16 x 13/16	
15	101642-9	Endcap, EC1 (ramped) Stainless Steel 630	
	104304-9	Endcap, EC2 (flush) Stainless Steel 630	
	106431-1	Device Hardware Kit, HD, EC1 (not all components shown, includes Items 16A & 16C)	
	106431-2	Device Hardware Kit, CD, EC1 (not all components shown, includes Items 16B & 16C)	
16KIT	106431-3	Device Hardware Kit, EA, EC1 (not all components shown, includes Items 16B & 16D)	
	106431-21	Device Hardware Kit, HD, EC2 (not all components shown, includes Items 16A & 16E)	
	106431-22	Device Hardware Kit, CD, EC2 (not all components shown, includes Items 16B & 16E)	
	106431-23	Device Hardware Kit, EA, EC2 (not all components shown, includes Items 16B & 16F)	
16A	100450	Hex Key (for Hex Dogging)	
16B	100783	Cylinder Nut (for Cylinder Dogging)	
16C	100147	Endcap bracket for EC1 (ramped) endcap w/o battery holder	
16D	101093	Endcap bracket for EC1 (ramped) endcap w/ battery holder	
16E	104303	Endcap bracket for EC2 (flush) endcap w/o battery holder	
16F	104636	Endcap bracket for EC2 (flush) endcap w/ battery holder	
17	100860-165	Fillerplate Subassembly, S&R, Hex Dogging, HD, 630	
18	104112-9	Centercase Cover, Stainless Steel, Narrow, CVR 630	
19	102216-2	Hex Dogging Assembly	
	102216	Cylinder Dogging Assembly	

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 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"	
- Commo	10-24 x 1/4" PPH P/N: PP-5304-104	Used to install device centercase to backplate	
	10-24 x 5/8" PFHU P/N: 100112	Used to install centerlift mechansim to 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 centercase 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 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 exterior door face.
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Strike Mounting Hardware		
	#10 x 1" PFHU P/N: 100109	Used to install bottom strike to 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 floor (alternate)
	10-32 x 1/2" PFH P/N: PP-5802-308	Used to install top strike pocket to header and strike insert to top strike pocket
Latch Mounting Hardware		
	10-24 x 5/16" PFH P/N: 100112-105	Used to install bracket to bottom assembly and top latch
- Jumm	10-24 x 3/8" PPH P/N: PP-5304-306	Hollow Metal / Wood doors: bottom bracket to latch Hollow Metal doors: Top & bottom latch brackets to door
	#10 x 3/4" PPHS P/N: PP-5183-66	Used to install bottom assembly to bottom of door & top latch to top of door (For NON-FIRE RATED)

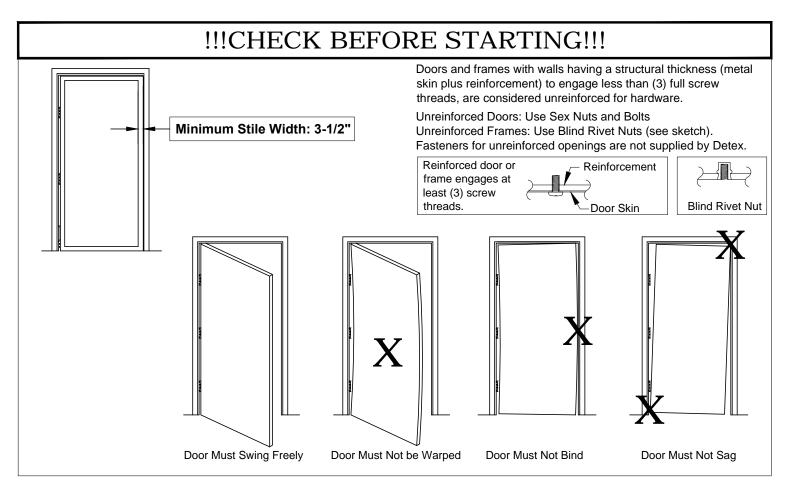
Power Drill Level Screw Drivers Hammer Pencil Center Punch

Tools Required

Drill Bit Set Safety Glasses
Pliers Tape Measure

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Hack Saw (Chopsaw preferred) Tap Wrench/ Hex Wrench - 5/64 Masonary Bits - 3/16", 5/16" & 1"

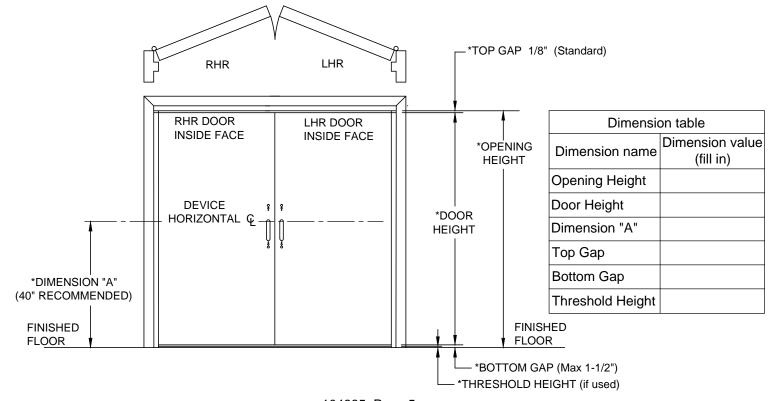


NOTE: LOCAL CODES MAY REQUIRE THROUGH BOLTING. SEX NUTS ARE NOT INCLUDED WITH THIS DEVICE. SEX NUTS CAN BE PURCHASED SEPARATELY.

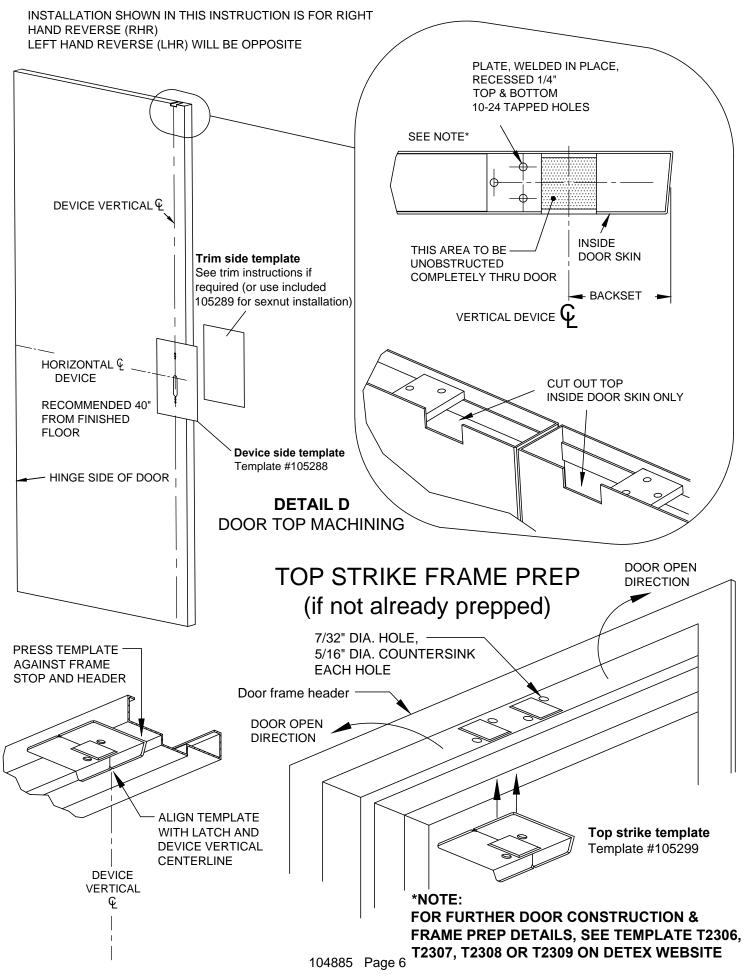
STEP 1: DOOR / OPENING MEASUREMENTS

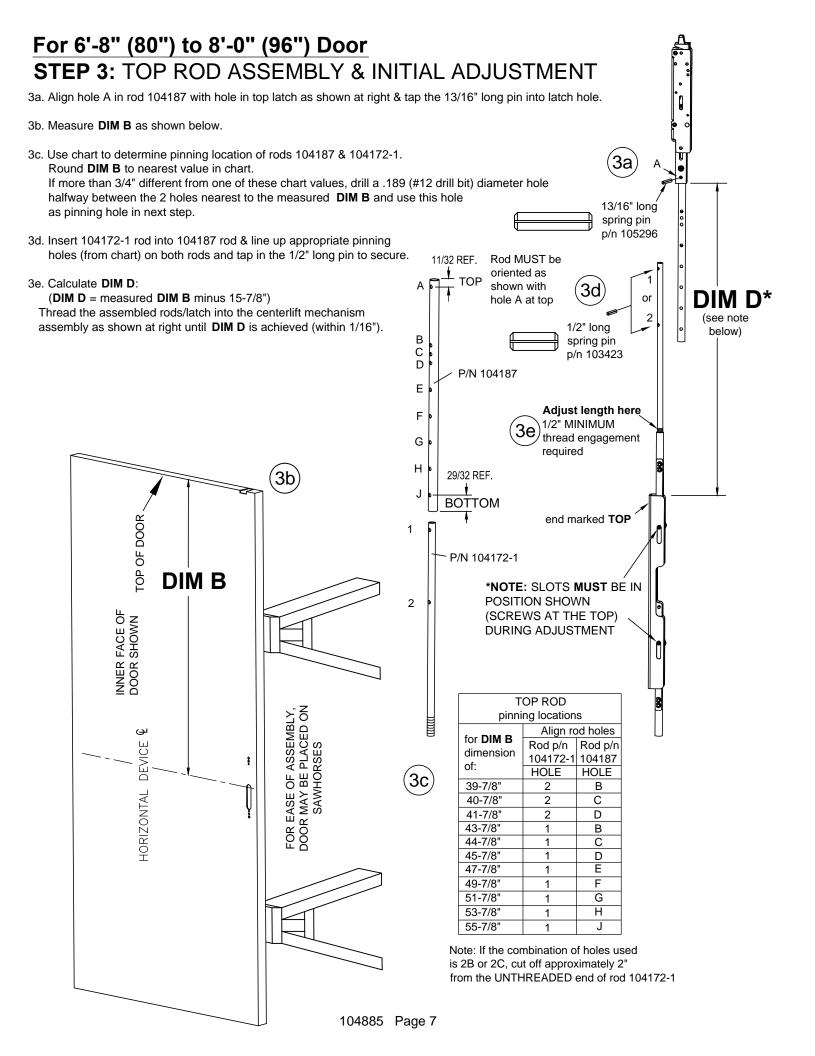
Measure per figure below:

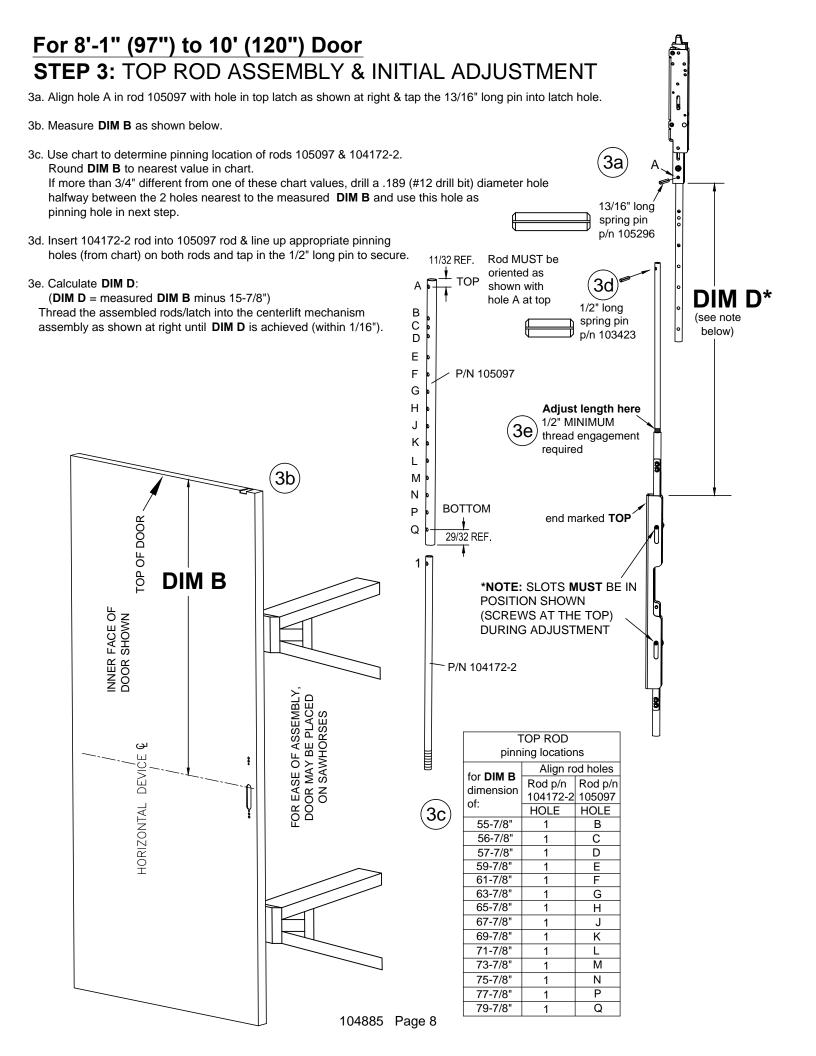
*These dimensions will be needed during rod length adjustment. Measure door before removing.



STEP 2: DOOR PREP - HOLLOW METAL DOOR







STEP 4:

BOTTOM ROD / LATCH ASSEMBLY & ADJUSTMENT

(Disregard if TRO device is being installed)

4a. Using DIM A as measured in step 1, use chart to determine pinning location.

If **DIM A** is **less** than 37-1/4" from finished floor, a new pin hole must be drilled through 105098 rod. Subtract the centerline dimension from 38" and measure up this distance from hole V. Mark and drill .189 diameter hole (#12 drill).

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

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

ROD P/N 105098

- 4b. Remove clip 103551 and slide pin out. Place bottom rod 105098 into bolt, line up holes and replace pin and place clips into pin grooves.
- 4c. **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":

HORIZONTAL DEVICE

BOTTOM OF DOOR

FINISHED FLOOR

DIM A

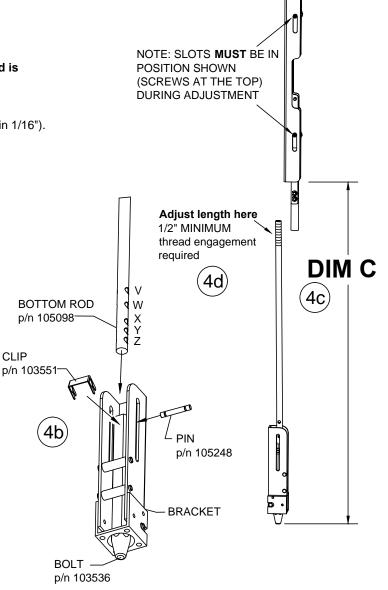
INNER FACE OF DOOR SHOWN

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.

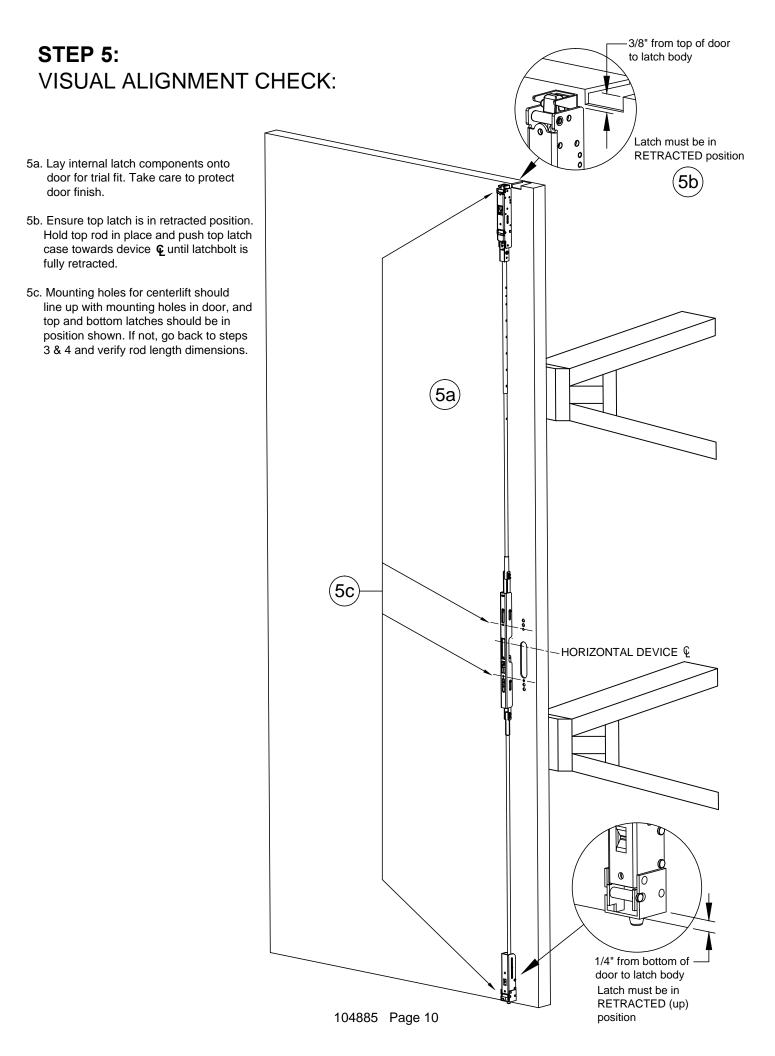
4d. Thread bottom rod into centerlift mechansim to achieve DIM C (within 1/16").

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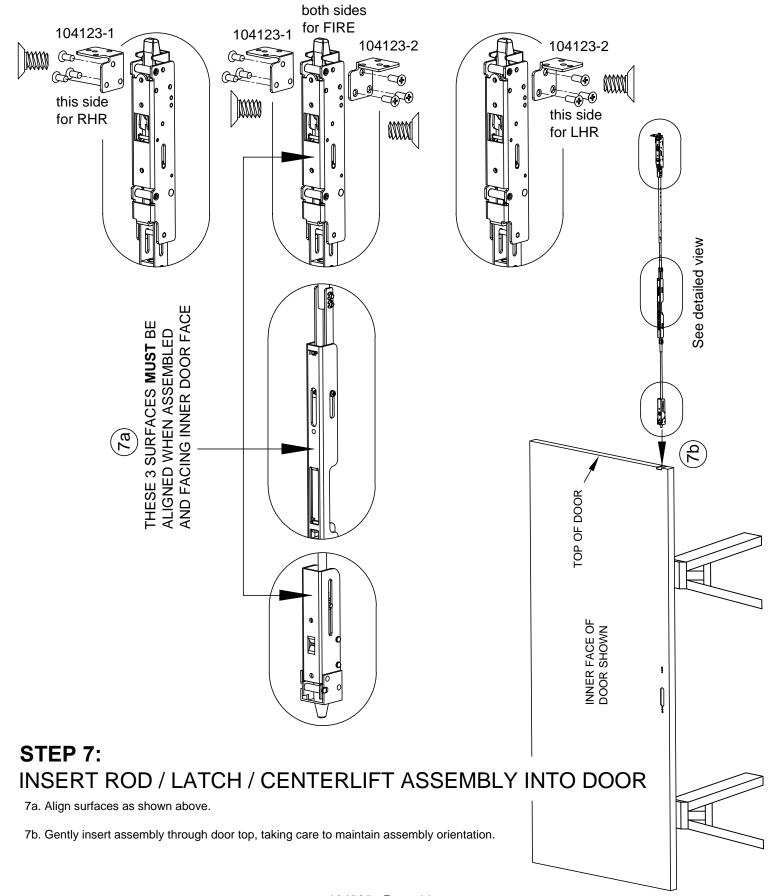
CLIP



STEP 6:

ATTACH TOP LATCH MOUNTING BRACKETS

Attach top latch brackets as shown below. Three screws (10-24 x 5 /16" PFHUMS) required for each bracket.



STEP 8: SECURE ROD / LATCH / CENTERLIFT ASSEMBLY TO DOOR

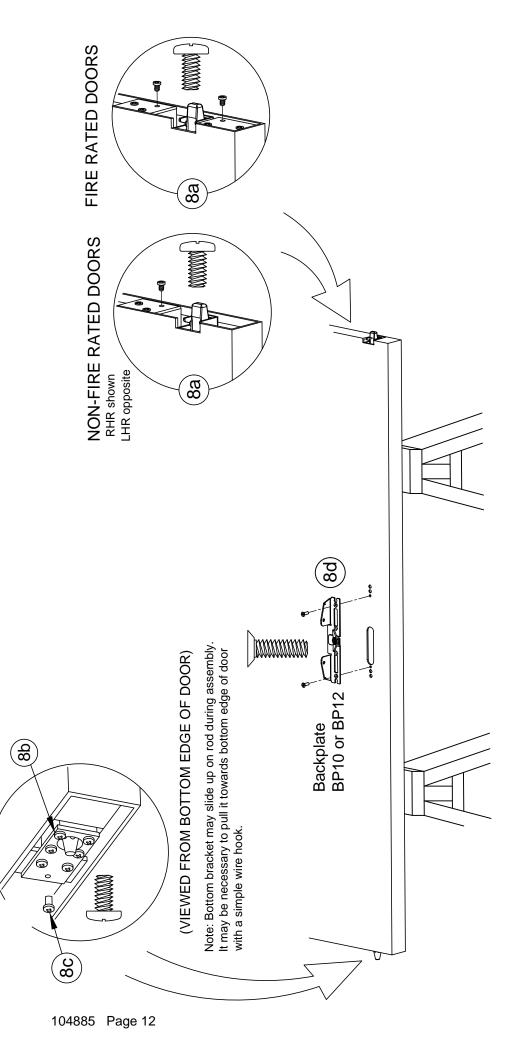
8a. Attach top latch to door with three screws (six for fire rated doors).

(Disregard steps 8b & 8c if TRO device is being installed) 8b. Attach bottom mounting bracket to bottom latch with four screws.

8c. Attach bottom mounting bracket to door with three screws.

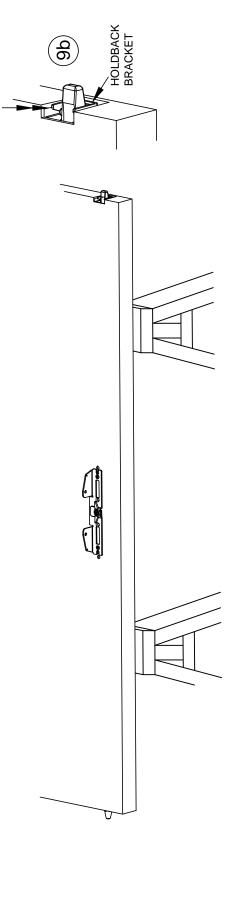
8d. Attach back plate to centerlift mechanism with two screws - DO NOT OVERTIGHTEN.

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



STEP 9: VERIFY CENTERLIFT MECHANISM OPERATION

PUSH



9a. Check current centerlift position using views shown.

9b. 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. 9c. To retract latches, gently insert a screwdriver into the activation slot and raise the slot to the retracted position as shown.

TROUBLESHOOTING:

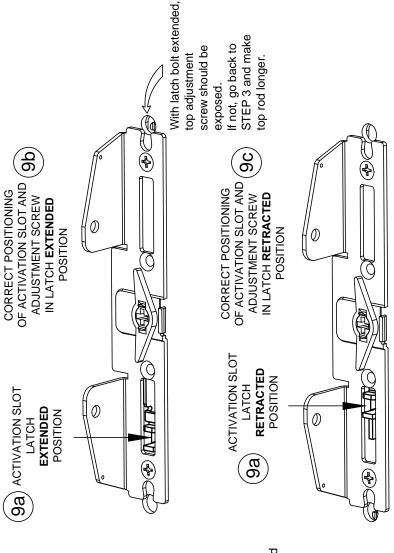
If latchbolt is fully extended while activation slot is not fully in the extended position, then top rod is too short. Go back to STEP 3 and correct.

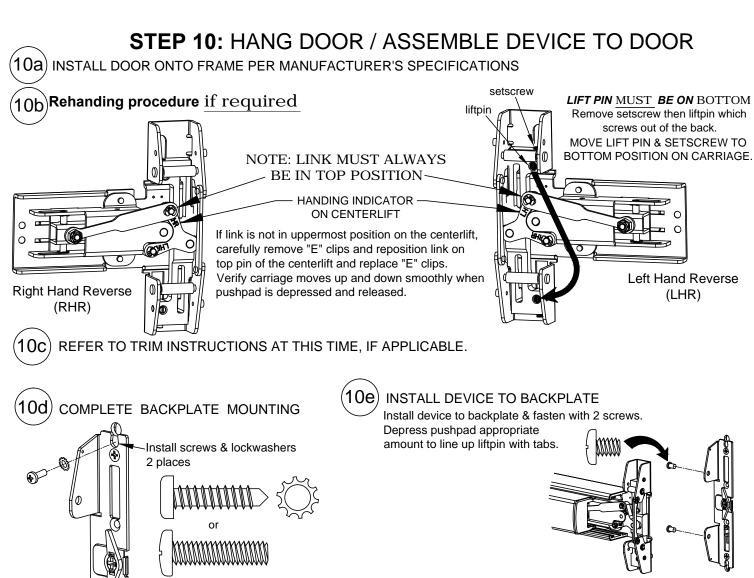
If latchbolt is partially retracted while activation slot is fully in the extended position, **then top rod is too long**. In this case, latchbolt will be fully retracted before activation slot can travel fully to the retracted position. Go back to STEP 3 and correct.

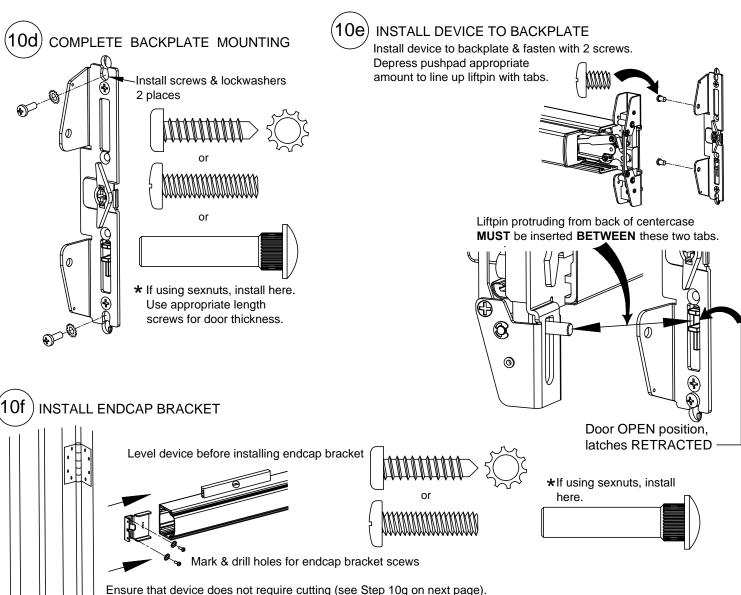
9d. Bottom bolt drag check:

With top latch in retracted position, check to ensure that bottom bolt is not extending from bottom of door a distance greater than the bottom gap at finished floor (minus the threshold height if threshold is used). If it is, then bottom rod is too long. Go back to STEP 4 and correct.

Upon completion, retract latches before proceeding to Step 10.



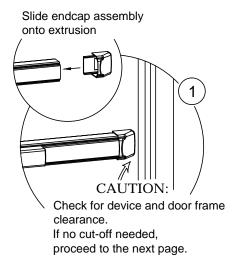




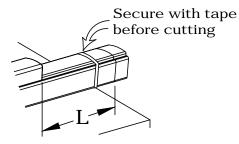
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Test device fuction after installation of endcap is complete by depressing & releasing pushpad. Action should be smooth with full return of pushpad and latch travel.

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



Cut fillerplate and extrusion STRAIGHT & SQUARE to desired length and deburr

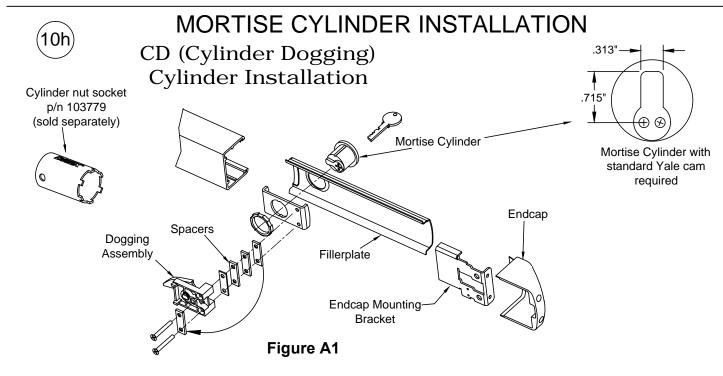


Minimum
Fillerplate
Length

Type Length (L)
LD 2-1/2"
HD/CD 3"

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.



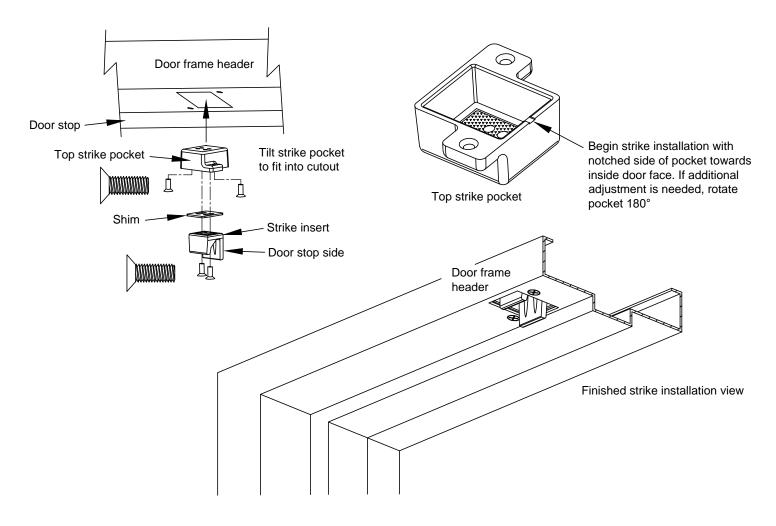
Follow steps "a" through "g" for CD installations

- a. Remove endcap and endcap mounting bracket.
- b. Remove fillerplate.
- c. Remove and discard shipping insert and nut. Loosen (2) screws from dogging assembly.
- d. Install mortise cylinder (sold separately) with large hex nut provided.
- e. Trial fit dogging assembly. If 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.

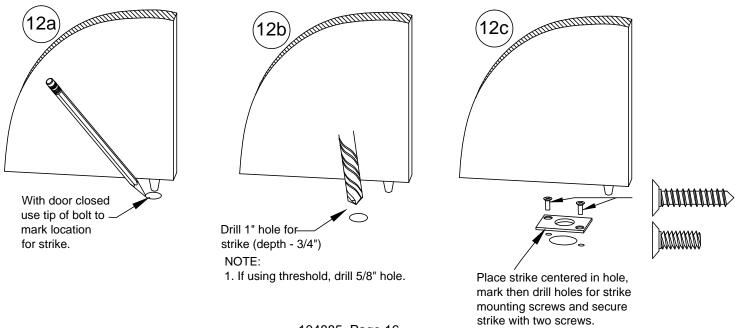
- f. Rotate key counterclockwise
- g. Assembly complete. Continue with Panic Hardware instruction.

STEP 11: TOP STRIKE INSTALLATION



STEP 12: BOTTOM STRIKE INSTALLATION (Disregard if TRO device is being installed)

BOTTOM STRIKE HOLE LOCATION & DRILLING

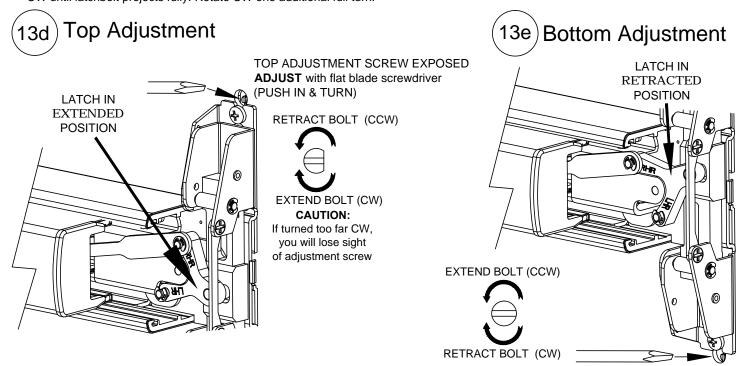


STEP 13: FINE LATCH ADJUSTMENT

- 13a. Ensure that latches are fully retracted. Gently close door. Latches should extend when door is closed.
- 13b. Depress pushpad and open door. Top latch should clear top strike & bottom bolt should not drag. Latches should remain in retracted position with pushpad released.

FINE LATCH ADJUSTMENT (if needed) ± 3/8" adjustment possible on both top & bottom rods independently. See diagram below.

- 13c. Top strike fine adjustment: Adjust strike engagement by either retaining or removing shim. Adjust door tightness by moving insert to desired position. Note that strike pocket can be flipped around to achieve additional adjustment (see step 11).
- 13d: **TOP LATCH ADJUSTMENT:** With latches extended, turn CCW until the top latchbolt projection begins to visually decrease, then turn CW until latchbolt projects fully. Rotate CW one additional full turn.

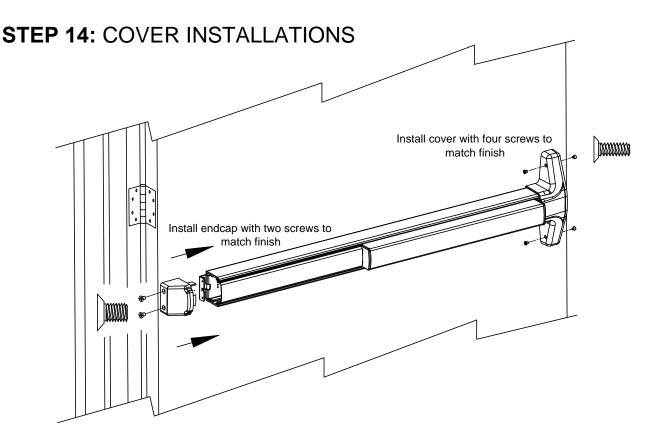


13e: BOTTOM LATCH ADJUSTMENT: With pushpad depressed (retracted position), extend or retract bottom bolt to desired engagement and clearance.

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

13f. Check device operation. Reference STEP 13a & 13b.

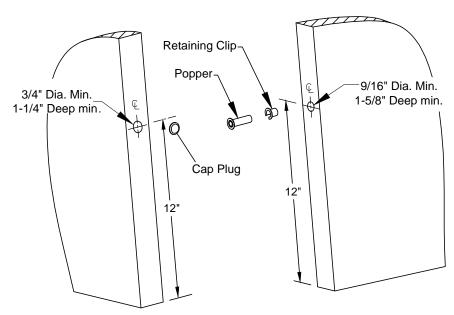
	DEVICE OPERATION TROUBLESHOOT	ΓING
SYMPTOM	POSSIBLE CAUSE	SOLUTION
Device not	Bottom bolt is not properly aligned with bottom strike hole.	Modify bottom strike hole for fit.
latching when door closes	Top strike insert is not installed or not correctly aligned with the holdback.	Install and/or position strike insert per instructions.
	Through fasteners for trim (if applicable) are interfering with internal centerlift assembly.	Loosen and re-position through screws to clear.
	Rods improperly adjusted	Adjust rods per instructions.
		Remove device and re-install per instructions.
Latches release, but pushpad will not fully	Device centercase lift finger not inserted properly into centerlift assembly.	Remove device from backplate and re-install with lift finger correctly inserted.
depress	Top adjustment screw is adjusted too far in the retracted direction (CCW).	Rotate top adjustment screw in the extended direction (CW) per FINE LATCH ADJUSTMENT procedure.
Latches are not releasing when pushpad is fully	Device centercase lift finger not inserted properly into centerlift assembly.	Remove device from backplate and re-install with lift finger correctly inserted.
depressed	Top adjustment screw is adjusted too far in the extended direction (CW).	Rotate top adjustment screw in the retracted direction (CCW) per FINE LATCH ADJUSTMENT procedure.
	Bottom adjustment screw is adjusted too far in the extended direction (CCW).	Rotate bottom adjustment screw in the retracted direction (CW) per FINE LATCH ADJUSTMENT procedure.



STEP 15: DOOR POPPER INSTALLATION

FIRE RATED TOP ROD ONLY (TRO) DOORS

A door locking popper is required when a fire door utilizes a top latching mechanism only (TRO). The popper is designed to project a spring loaded bolt into the adjacent frame or door in the event of fire. Detex recommends installing the popper in the edge of the door 12" above the threshold or finished floor. **Holes for the popper and plug must be aligned with each other.**



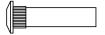
NOTE: Door/Frame reinforcement is required where popper and cap plug are to be installed.

Optional Accessories

Sex Nut Kits:

Catalog No. SN3

The #1/4-20 kits are available in 3 finishes: Brushed Brass BHMA 606: p/n 105274-2 Stainless Steel BHMA 630: p/n 105274-9 Oil Rubbed Bronze BHMA 613: p/n 105274-25 Catalog No: SN3 (uses screws in hardware kit)



Tamper Kit

(Security Kit)

Catalog # & Part #: **SSK1**





Cylinder nut socket p/n: 103779

