



ITEM#	DESCRIPTION	Fire	Panic Non-fire	_ PART NUMBER
		QTY	QTY	
1	Top strike kit	1	1	105257-2
2	CVR strike shim	1	1	105246
3	CVR top strike pocket	1	1	105235-1
4	CVR top strike insert	1	1	105236-1
6	Top latch (Panic)		1	104121-1
	Top latch (Fire)	1		104121-2
7	Outer top rod, 7' thru 8'	1	1	104187
	Outer top rod, 8'-1" thru 10'		'	105097
	Inner top rod, 7' thru 8'	1	1	104172-1
. 8	Inner top rod, 8'-1" thru 10'			104172-2
9	Center lift mechanism assembly	1	1	104175-X
10	CVR bottom rod	1	1	105098
11	Bottom latch, Aluminum application	1	1	104190-1
12	Bottom strike kit	1	1	105257-3
13	Spring pin 3/16 x 13/16	1	1	105296
14	Spring pin 3/16 x 1/2	1	1	103423

* Note: Parts listed will vary according to product configuration.

Mortise cylinder available as an option. Standard Yale type cam required.

See Mortise cylinder installation page.



ITEM#	DESCRIPTION	QTY	PART NUMBER
21	S&R CVR Centercase/Pushpad Assy	1	105500-X
22	Endcap (EC1) (SS)	1	101642-X
23	Flush endcap (EC2) (AL)	1	104612-X
	Flush endcap (EC2) (SS)	'	104304-X
24	Endcap mounting bracket (EC1)	1	100147
25	Flush endcap mounting bracket (EC2)		104303
26	S & R Fillerplate subassembly	1	see above
27			
28	Wide centercase cover	1	see above
29			
30	Wide back plate (BP11 OR BP13)	1	104171-X
	•		



Tools Required				
Power Drill	□ Safety Glasses Tape Measure		Pencil	Center Punch
		\bigcirc		
Hammer 👝	Screw Drivers -	Tap Wrench 🍴	Pllers	Level
	Phillips, Small Flat			
Hack Saw (chopsaw preferred)	Hex Wrench - 5/64	Masonry Blts - 1", 5/16", 3/16"	Drill bit set	
		(111/110	annna	

(Lo	Fa ok for letter designation throug	stener Table hout instruction	when screws are called for)	
Device Mounting Hardware p/n: 105258-X				
	screw style & size	description	used on	
A	lockwasher used with screws A	1/4-20 x 1" PPHMS	Hollow metal / aluminum doors: backplate & endcap bracket to door	
B		#14 x 1" PPH self-drilling	Hollow metal / aluminum doors: backplate & endcap bracket to door (alternate)	
C		#14 x 1/2" PPH self cutting	Wood doors: backplate to door & endcap bracket	
D		10-24 x 1/4" PPHMS	Device centercase to backplate	
E		10-24 x 5/8" PFHUMS	Centerlift mechansim to backplate	
F	(multiple finishes included)	10-32 x 5/16" PFHUMS	Endcap to endcap bracket	
G	(multiple finishes included)	6-32 x 3/8" PFHUMS	Centercase cover to backplate	
	Strike Mountii	ng Hardware p/n:	105257-X	
(\mathbf{H})	(used with anchors, two styles of anchors included)	#10 x 1" self-cutting PFHU	Bottom strike to floor	
		10-24 x 1/2" PFHUMS	Bottom strike to floor (alternate)	
J		10-32 x 1/2" PFHMS	Top strike pocket to header, insert to pocket	
Latch Mounting Hardware p/n: 105261-X				
K		10-24 x 5/16" PFHUMS	Aluminum doors: Latch to door Hollow Metal / Wood: top latch bracket to housing	
		#10 x 3/4" PPH self-cutting	Wood doors: Top & bottom latch mounting brackets to door	
M		10-24 x 3/8" PPHMS	Hollow Metal / Wood doors: bottom bracket to latch Hollow Metal doors: Top & bottom latch brackets to door	

!!!CHECK BEFORE STARTING!!!



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 - ALUMINUM & FRP 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).

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

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.

- 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":
 DIM C = measured DIM A minus 8" minus threshold height
- 4d. Thread bottom rod into centerlift mechansim to achieve DIM C (within 1/16").



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

NOTE: SLOTS MUST BE IN

(SCREWS AT THE TOP)

DURING ADJUSTMENT

POSITION SHOWN

ROD P/N 105098

STEP 5: VISUAL ALIGNMENT CHECK:

- 5a. Lay internal latch components onto door for trial fit. Take care to protect door finish.
- 5b. Ensure top latch is in retracted position. Hold top rod in place and push top latch case towards device \mathbf{Q} until latchbolt is fully retracted.
- 5c. Mounting holes for top latch, centerlift and bottom latch should line up with mounting holes in door. If not, go back to steps 3 & 4 and verify rod length dimensions.



STEP 6: ATTACH TOP LATCH MOUNTING BRACKETS

No brackets necessary for aluminum door applications - continue to step 7

STEP 7: INSERT ROD / LATCH / CENTERLIFT ASSEMBLY INTO DOOR

7a. Align surfaces as shown below.

7b. Gently insert assembly through door top, taking care to maintain assembly orientation.











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.



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







Place strike centered in hole, mark then drill holes for strike mounting screws and secure strike with two screws

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.



EXTENSION

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

DEVICE OPERATION TROUBLESHOOTING				
SYMPTOM	POSSIBLE CAUSE	SOLUTION		
Device not latching	Bottom bolt is not properly aligned with bottom strike hole.	Modify bottom strike hole for fit.		
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 depress	Device centercase lift finger not inserted properly into centerlift assembly.	Remove device from backplate and re-install with lift finger correctly inserted.		
	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 depressed	Device centercase lift finger not inserted properly into centerlift assembly.	Remove device from backplate and re-install with lift finger correctly inserted.		
	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 14: COVER INSTALLATIONS



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



Cylinder nut socket p/n: 103779

SSK5 (p/n 101233-3 for top rod only applications)

