

Detex Corporation, 302 Detex Drive, New Braunfels, Texas 78130-3045 830-629-2900 / 800-729-3839 / Fax 800-653-3839 / Text photos only: 830-481-6433 / INTERNET: www.detex.com

INSTALLATION INSTRUCTIONS FOR DETEX VALUE SERIES® SVR V50 SERIES FV50 SERIES, "H" MODEL (HURRICANE), "W" MODEL (WEATHERIZED), V50NS (NARROW STILE)

Dwg #: 102890, 103550, 103560

Table of Contents	Page
Device parts breakdown view	2
Device parts breakdown list with part numbers	3
Hardware List with part numbers & tools required	4
Door condition check	5
Use template to locate backplate	6
Use template to locate top strike	7
Use template to locate bottom bolt bracket	8
Install Pushpad assembly, cutdown procedure (if req'd)	9
Mortise cylinder installation (if req'd), level / secure pushpad	10
Rehanding (if req'd), Top rod installation	11
Top rod installation (cont'd), Top latch testing	12
Bottom rod installation	
Bottom rod installation (cont'd), Bottom strike installation	14
Bottom latch testing, Door popper installation	
Top & bottom latch cover & rod guide installation	
Optional Accessories	

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.

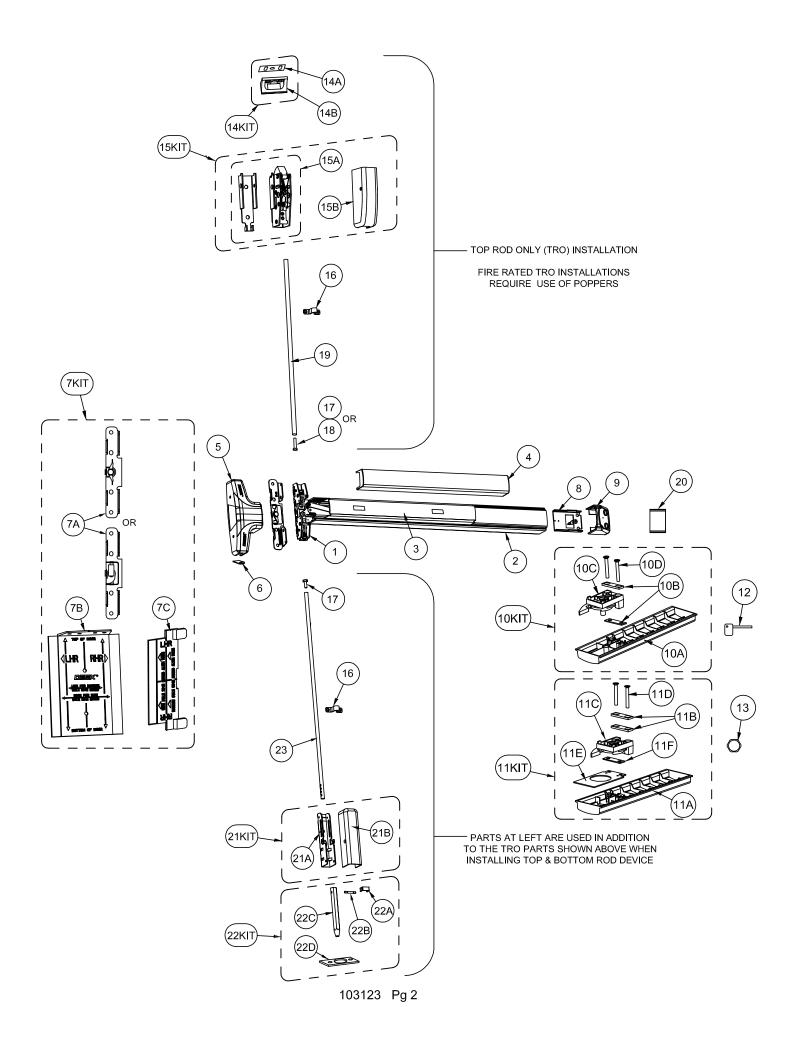
For WARRANTY information, scan code below or go to www.detex.com/warranty



Owner's Copy

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





		PARTS BREAKDOWN	
Item	Order Part #	Description	
	101463-9	Centercase, RHR, Narrow Stile, 50 Series	
1	101463-11	Centercase, LHR, Narrow Stile, 50 Series	
	106281	Baseplate Extrusion, 36", Silver	
	106285	Baseplate Extrusion, 48", Silver	
2	106289	Baseplate Extrusion, 36", Black	
l †	106290	Baseplate Extrusion, 48", Black	
	103065-1	Pushpad Subassembly, 36"	
3	103065-2	Pushpad Subassembly, 48"	
	105065-2 Fushpad Subassering, 46 105417-1 Pushpad Wrap, 36", Red (English Text)		
	105417-2	Pushpad Wrap, 48", Red (English Text)	
4	105417-3	Pushpad Wrap, 36", Black	
	105417-4	Pushpad Wrap, 48", Black	
5	101805-3	Centercase Cover	
6	103547	Centercase Cover Cap (for TRO device only)	
7KIT	103806-15	Mounting Plate/Strike Locator Kit, Narrow Stile, 96, BP2 (includes 7A, 7B, 7C)	
,,,,,	100696-1	Mounting Plate, BP2, Narrow Stile	
7A	100699	Mounting Plate, BP8 for 03 Trim, Narrow Stile	
7B	101511-1	Strike Locator	
7C	100720	Centercase Locator	
	101844-1	Endcap bracket w/o battery holder	
8	101844	Endcap bracket w/ battery holder	
9	101822	Endcap	
10KIT	101803-1	Fillerplate, Subassembly, S&R, Hex Dogging, HD, V50 series, 36" (includes 10A through 10D)	
	101812-1	Fillerplate, HD, 36"	
10A	101812-2	Fillerplate, HD, 48"	
10B	100164	Spacer, dogging bracket, .120" thick	
10C	102216-4	Die cast dogging assembly, Hex Dogging (HD)	
10D	PP-5802-124	Screw, mach, 10-32 x 1-1/2" PFH	
11KIT	102195-1	Fillerplate, Subassembly, S&R, Cylinder Dogging, CD, V50 series, 36" (includes 11A through 11F)	
	102194-1	Fillerplate, CD, 36"	
11A	102194-2	Fillerplate, CD, 48"	
11B	100164	Spacer, dogging bracket	
11C	102216-3	Die cast dogging assembly, Cylinder Dogging (CD)	
11D	PP-5802-124	Screw, mach, 10-32 x 1-1/2" PFH	
11E	102196	Bracket, fillerplate, CD, V50	
11F	100938	Spacer, dogging bracket, .060" thick	
12	100450	Hex Key (for Hex Dogging)	
13	100783	Cylinder Nut (for Cylinder Dogging)	
14KIT	100855-4	96 Strike Kit (includes 14A, 14B)	
14A	101067	Strike Shim, Narrow	
14B	100330	Strike, Non-roller, Narrow	
15KIT	104071	Top Latch Assembly (includes 15A, 15B & cover screws)	
15A	101464	Top Latch Assembly	
15B	103545	Top Latch Cover	
	104073-1	Rod Guide Kit (1 guide with hardware)	
16	104073-2	Rod Guide Kit (2 guides with hardware)	
	104073-3	Rod Guide Kit (3 guides with hardware)	
17	101574-1	Bolt, 1/4-20 x 1"	
18	101574-2	Bolt, 1/4-20 x 2"	
	104051-3	Top Rod (7' application)	
19	104051-4	Top Rod (8' application)	
	103073-1	Top Rod (10' application)	
20	101825-1	Narrow Stile Insert	
21KIT	104070	Kit, Bottom Bracket/Cover (includes 21A, 21B & cover screws)	
21A	103555	Bottom Bolt Bracket Subassembly	
21B	103652-1	Cover, Bottom Latch	
22KIT	104072	Kit, Bottom Bolt (includes 22A, 22B, 22C, 22D)	
22A	103551	Bolt Clip	
22B	103533	Pin, Bottom Bolt	
22C	103536-1	Bottom Bolt	
	103566	Strike, Bottom, with mounting hardware	
22D 23	103544	Bottom Rod	

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

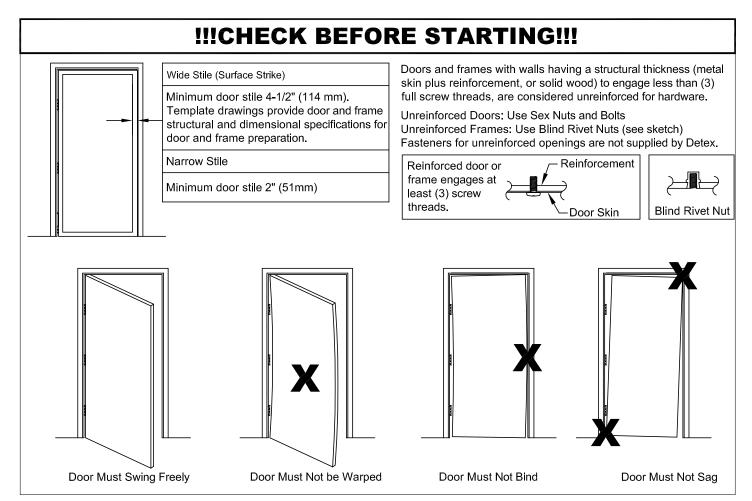
Hardware Table for BASIC device mounting. Additional hardware is provided per the device configuration in kit form and is addressed on the appropriate pages as required

	11 1 1 1		
	Fastener Part No	Drill Bit cascasse	
	P/N: 100980 1/4-20 x 1" PPH	#7 or 13/64"	
	P/N: 101621-5 1/4-20 x 1/4" PPH	#7 or 13/64"	
	P/N: 100156-104 8-32 x 1/4" PFHU		
Jumm	P/N: 100162-106 P/N: 100162-506 6-32 x 3/8" PFHU 6-32 x 3/8" PFHU Stainless Steel 316 Stainless Steel		
	P/N: 103276-65 #14 x 1-1/2" PPH SELF DRILLING	1/8 pilot hole recommended for self-drilling screws	
	P/N: PP-5183-110 #14 x 1-1/4" PPH WOOD SCREW		
	P/N: PP-5067-25 P/N: 106364-25 #14 Lockwasher #14 Lockwasher Zinc plated Stainless Steel		
	Optional Sex Nuts can be used for thru-bolting the device to the door. Catalog No: SN1 (quantity 2 per order)	9/32" on interior door face	
-	NOTE: HURRICANE rated devices MUST BE thru-bolted using either sexnuts or outside mating trim	3/8" on exterior door face	

P/N: 101574 1/4-20 x 1" B		
	P/N: 101574-2 1/4-20 x 2" BOLT	

Tools Required:

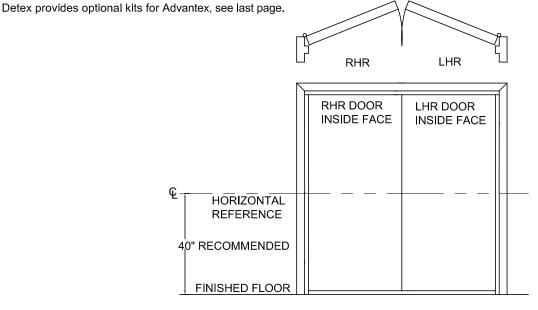
Power Drill	Safety Glasses	Tape Measure	3 /16" & 5 /32" Allen Wrenches
Level	Pencil	Center Punch	#2 and #3 Phillips Screw Drivers
Combination Square	e		

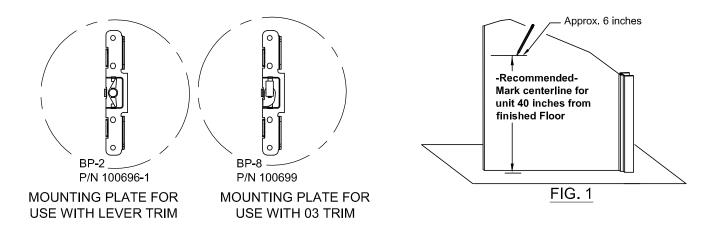


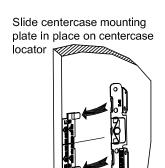
NOTE: 750mm MAXIMUM DOOR WIDTH OPENING FOR EUROPE FOR 36" DEVICE
1000mm MAXIMUM DOOR WIDTH OPENING FOR EUROPE FOR 48" DEVICE
THE SAFETY FEATURES OF THIS PRODUCT ARE ESSENTIAL TO IT'S COMPLIANCE WITH EN 1125.
NO MODIFICATION OF ANY KIND, OTHER THAN THOSE DESCRIBED IN THESE INSTRUCTIONS ARE PERMITTED.

WHEN PLACING EXIT DEVICES ON EXISTING DOORS, DETEX OFFERS SVR REINFORCEMENT KIT #101063 TO STRENGTHEN THE TOP & BOTTOM BOLT INSTALLATION

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

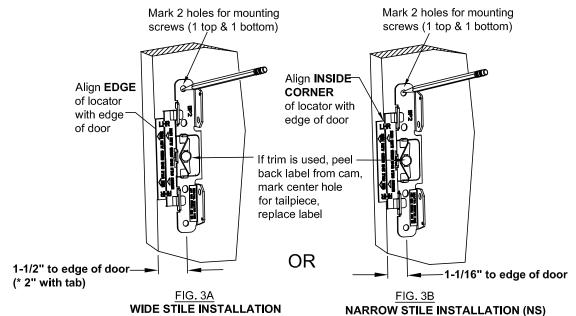






NOTE:
Centercase mounting plate & locator packed in carton next to device

FIG. 2

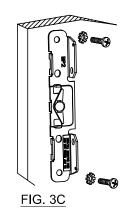


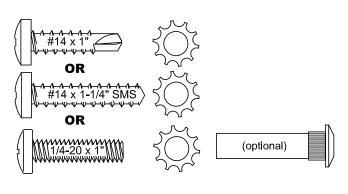
NOTES:

Plastic locators are provided with an extra 1/2" flap to allow better centering of the device on the stile or can be used when installing 1/2" Astragal to give equal backset from the door edge.

Typical Installation Min. Stile 3 1/2"

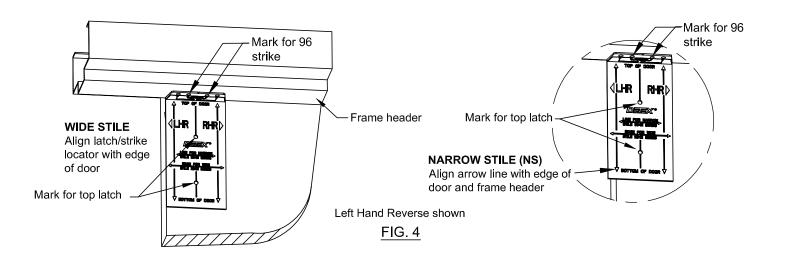
IF OUTSIDE TRIM IS USED, REFER TO OUTSIDE TRIM INSTRUCTIONS NOW.

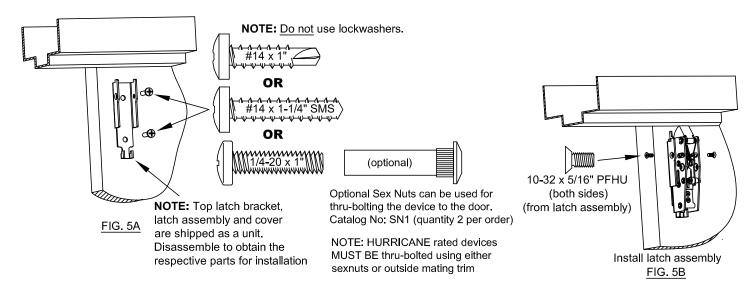


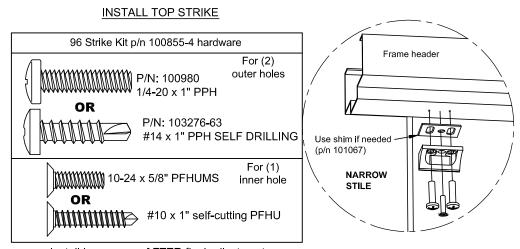


Optional Sex Nuts can be used for thru-bolting the device to the door. Catalog No: SN1 (quantity 2 per order)

Aluminum Door Min. Stile 2"



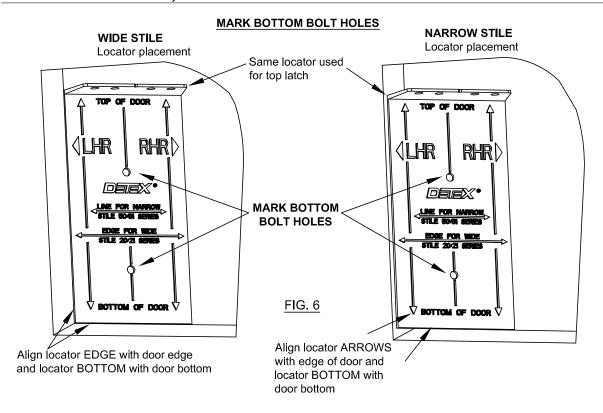


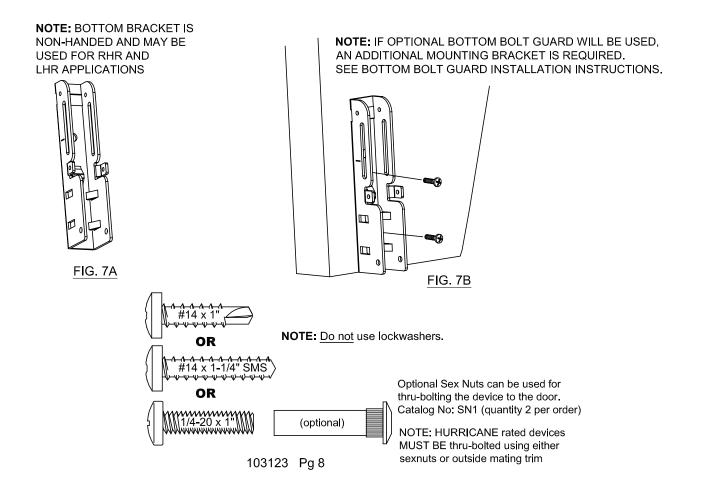


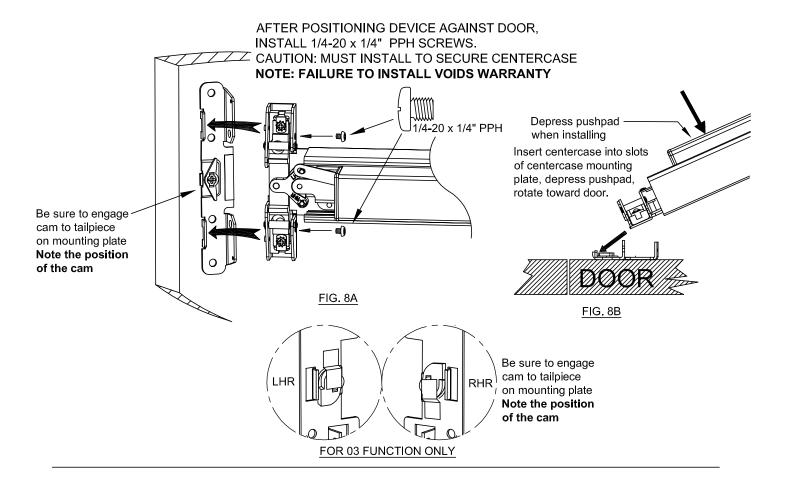
Install inner screw **AFTER** final adjustment (See Pg. 13 Adjustment/Troubleshooting, Note #4)

FIG. 5C

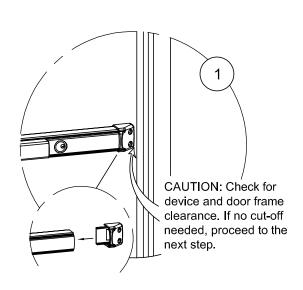
NOTE: IF TRO DEVICE, SKIP THIS PAGE AND CONTINUE WITH INSTALLATION

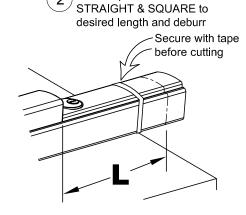






CHECKING FOR DEVICE CLEARANCE (Cut-Off procedure if required)





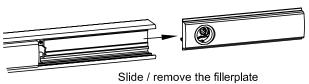
Cut fillerplate and extrusion

Non-Electrified Minimum Fillerplate Length		
Туре	Length (L)	
LD	2-1/2"	
HD/CD	3"	

For further Cut-Down information, see: www.detex.com/cutdown

MORTISE CYLINDER INSTALLATION

CD (Cylinder Dogging) (if required)



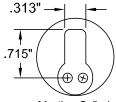
subassembly

1/4" collar (not supplied) required for 7 pin cylinder. (Detex p/n: ECL-1595)

Adjust for LONGER cylinder

length with spacers (provided)

and cylinder collar (not included)



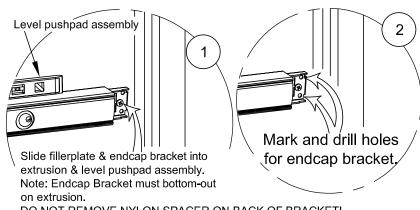
Mortise Cylinder with standard Yale cam required

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

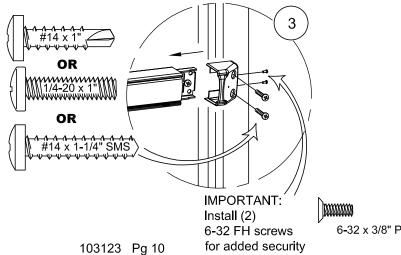
- a. Remove endcap and endcap mounting bracket.
- b. Remove fillerplate.
- c. Remove and discard shipping insert and nut. Loosen (2) screws from dogging assembly.
- d. Install mortise cylinder (sold separately) with large hex nut provided.
- e. Trial fit dogging assembly. If cylinder is too short, remove spacers as necessary and reattach them under the (2) screw heads (see above). 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.



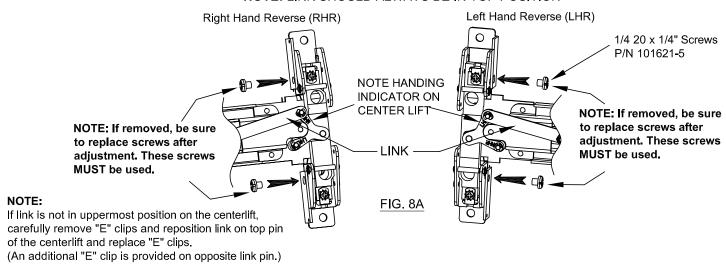
DO NOT REMOVE NYLON SPACER ON BACK OF BRACKET! Secure the endcap bracket to door by tightening the factory installed self-drilling screw.



6-32 x 3/8" PFHU

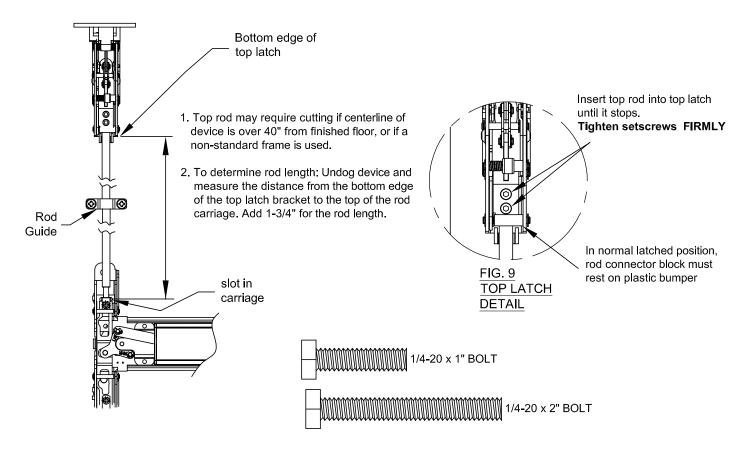
CORRECT HANDING OF DEVICE

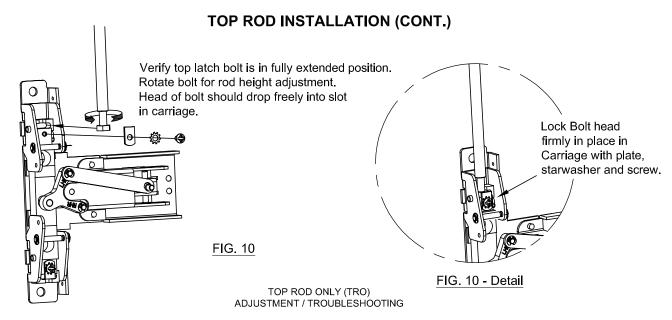
NOTE: LINK SHOULD ALWAYS BE IN TOP POSITION



Verify carriage moves up and down smoothly when pushpad is depressed and released.

TOP ROD INSTALLATION





TOP LATCH TESTING AND ADJUSTMENT

- 1. Close the door. The holdback lever should engage the backside of the strike, allowing the latchbolt to extend. The device should latch securely and latchbolt should fully project into the strike cavity.
- 2. Press the pushpad. The latchbolt should retract fully and smoothly from the strike as the door opens.
- 3. Release the pushpad. The latchbolt should remain retracted until the door is closed.
- 4. Once the latchbolt operation has been evaluated, the strike should be checked and adjusted to allow the door to be held snug to the frame but allow free movement of the latchbolt during normal operation. When the appropriate position has been set, a third hole should be marked, drilled and tapped for a #10 machine or use a #10 self drilling screw. Lock the strike in position with this third screw. (See Fig. 5C)

NOTE: For centerline heights significantly higher or lower than the recommended 40", it may be necessary to use shorter or longer adjustment hexbolts in the rods to effect appropriate adjustment. For some door heights it maybe necessary to cut the rod. Be sure to cut the **un-threaded** end. If this is done, we recommend rod covers be used to prevent exposed bolt threads.

TROUBLESHOOTING

1. Latchbolt does not completely relatch when closing the door

Loosen the strike screws and adjust the strike to allow the latchbolt to completely extend into the strike. Tighten the screws and add the third center screw to lock the strike in place.

2. Latchbolt fails to retract when pushpad is pushed

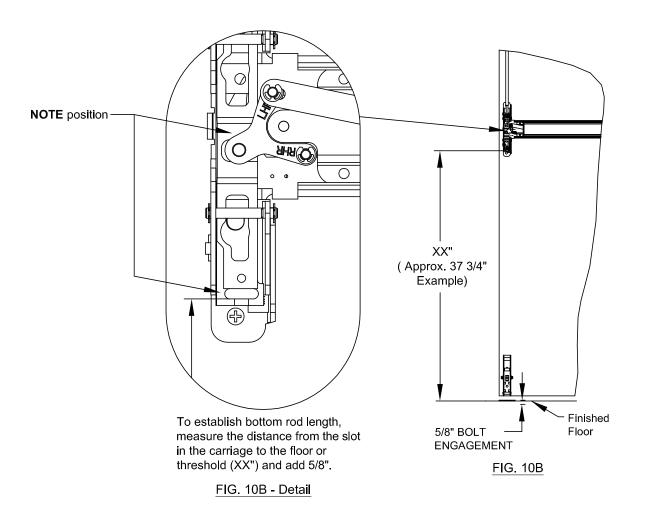
Check centercase assembly and verify that the link is attached to the **TOP** post of the centerlift assembly (see Fig. 8A), or shorten top rod by rotating bolt. Relock bolt into carriage.

3. Latchbolt is slow or does not completely extend when door closes.

Check rod adjustment (Fig 10).

Check centercase, verify that the 1/4-20 x 1/4" screws have been installed (See Fig. 8A).

NOTE: IF TRO DEVICE, SKIP THIS PAGE AND CONTINUE TO PAGE 15



Thread 1/4-20 X 1"
hexbolt into rod a
MINIMUM of 1/2"

Insert rod into bottom bolt.

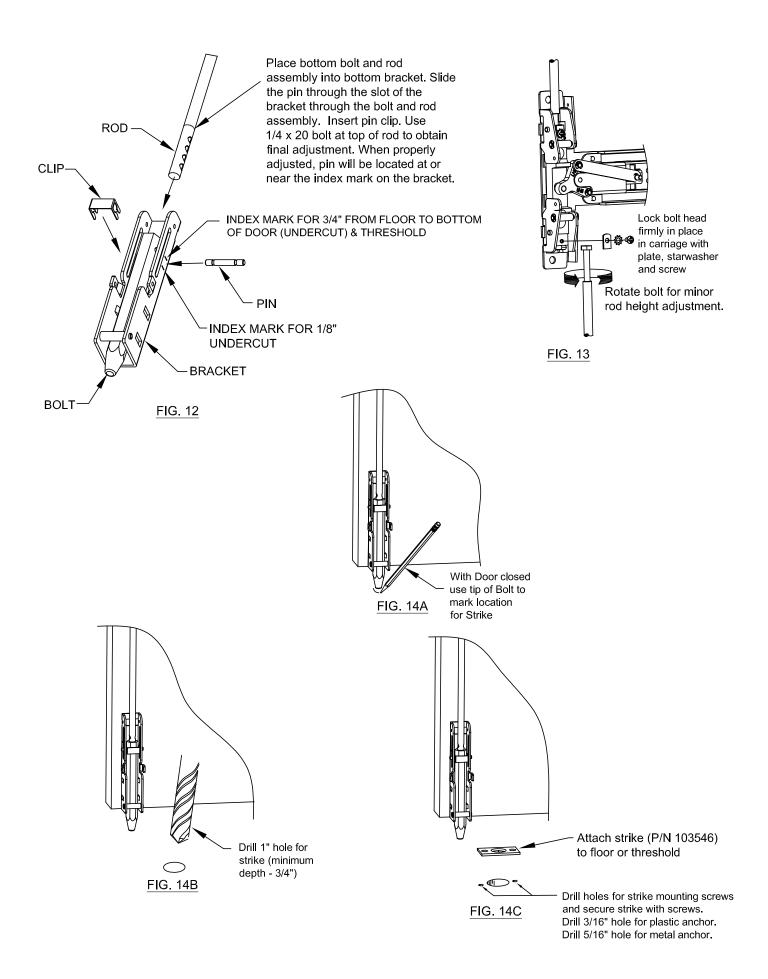
Align holes in rod and bolt that will result in overall length closest to dimension needed.

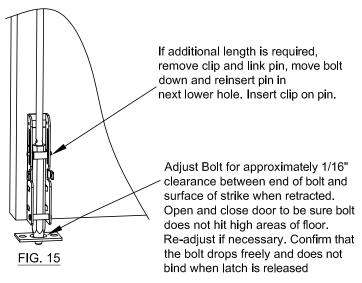
Adjust threaded hexbolt at opposite end of rod for fine adjustment of length.

Mark location on rod where it meets the bolt and/or tape bolt in position.

FIG. 11

103123 Pg 13





BOTTOM LATCH Testing and Adjustment Testing

- 1. Close the door; bolt should drop into the strike as the door moves into the fully closed position.
- 2. Press the pushpad and open the door. The bottom latch bolt should retract out of the strike and clear the strike by 1/16" to 1/8". Vertical travel of the bolt should be 3/4".
- 3. Release the pushpad; bolt should remain retracted until the door is closed.

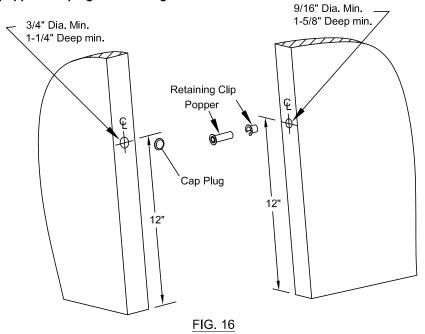
Adjustment

1. If bottom bolt drags the floor or hits edge of strike:

Loosen bolt retainer in the carriage assembly and pull bolt from carriage. Screw bolt onto bottom rod one or two turns and return it to the carriage. Test door to assure clearance and secure bolt in carriage by tightening bolt retaining plate.

FIRE RATED TOP ROD ONLY (TRO) DOORS

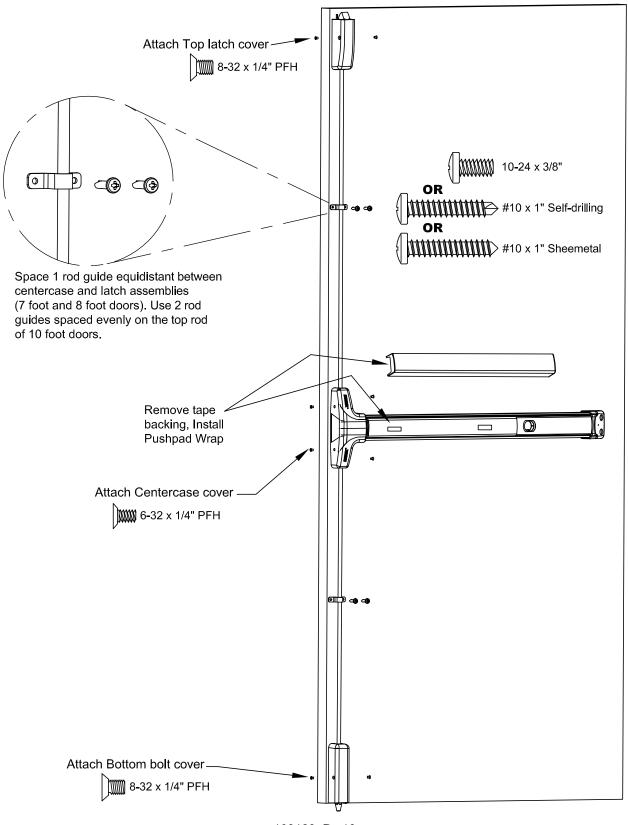
A door locking popper (Detex p/n 101563) is required when a fire door utilizes a top latching mechanism only (TRO). The popper is designed to project a spring loaded bolt into the adjacent frame or door in the event of fire. Detex recommends installing the popper in the edge of the door 12" above the 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.

STANDARD SURFACE VERTICAL INSTALLATION

- 1. If metal bottom bolt guard is to be used, do not attach the plastic bottom latch cover (refer to bottom bolt guard installation instructions.)
- 2. If rod covers are to be used, do not install rod guides (refer to rod cover installation instructions).



Optional Accessories Glass Bead Kit Catalog No: GB5 or GB6 0 0 \bigcirc P/N: 103276-65 0 #14 x 1-1/2" SELF DRILLING 0

Rod Cover/Bottom Bolt Guard Kit

P/N:

103558-1 V50x84xRCxBG 103558-2 V50x96xRCxBG 103558-3 V50x120xRCxBG 103558-4 V51x84xRC 103558-5 V51x96xRC 103558-6 V51x120xRC

103558-7 V50x84xRC 103558-8 V50x96xRC 103558-9 V50x120xRC

P/N: 103276-43

#10 x 1-1/2" SELF DRILLING

(quantity 2 per kit) Sex Nut

The #1/4-20 kit is available in (4) finishes:

Catalog No: SN1 Brushed Brass BHMA 606 Finish Catalog No: SN1 Oil Rubbed Bronze BHMA 613 Finish Catalog No: SN1 Brushed Chrome BHMA 626 Finish Catalog No: SN1 Stainless Steel BHMA 630 Finish

p/n: 101616-630



Bottom Bolt Guard Kit

P/N: 103562



Tamper Kit

(Security Kit) Catalog No: SSK3 p/n: 101233









P/N: PP-5378-104

8-32 x 1/4" PPH





Security Pin TORX® Security Screws Bits provided

Key Stop Kit Catalog No: KS p/n: 101867 Requires a .05 hex wrench (not included)

Dogging Lever Assembly (shown for reference ONLY)

Key Stop Screw

Wood Door Screw Kit

Part No: 103991



Dustproof Strike Kit

Part No: 101562-X



103123 Pg 17

Cylinder nut socket kit

p/n: 103779

