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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 ADVANTEX® SURFACE VERTICAL ROD 20/21/50/51 SERIES, F20/F21/F50/F51 SERIES, "W" (Weatherized) and "H" (Hurricane) models

ADVANTEX®

Dwg #: 101559 (Stainless Steel) 104690 (Aluminum)

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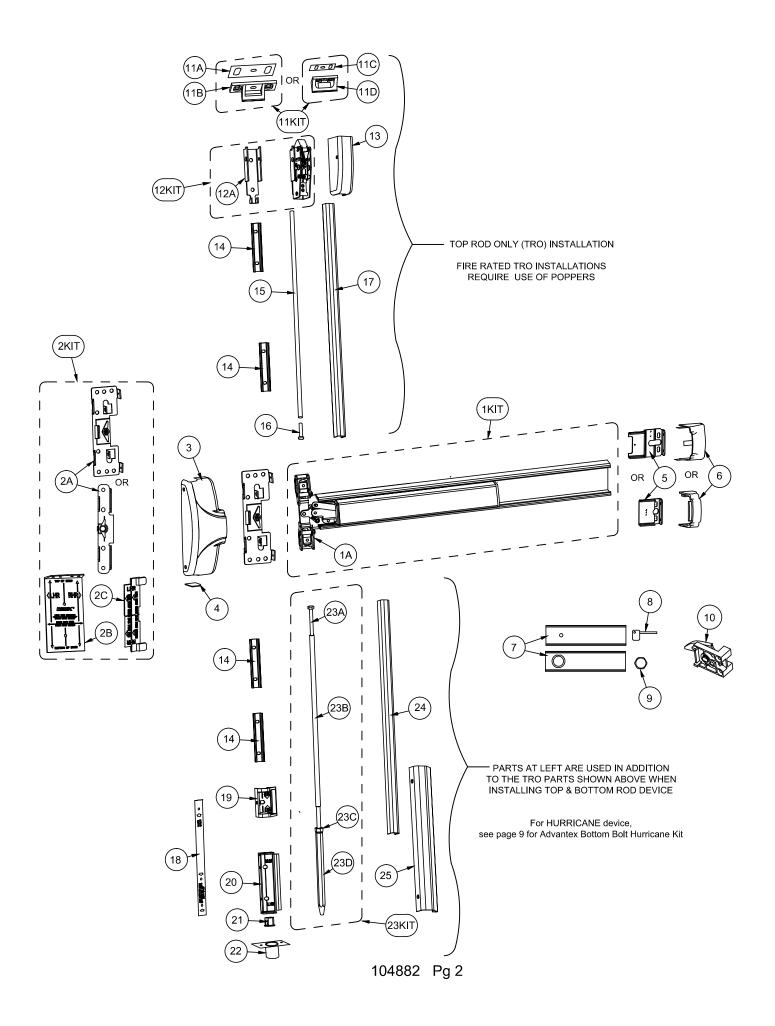
Should you have a Question/Problem with your Detex device please call Detex Technical Support from the job site at 1-800-729-3839 and choose option 2 on our menu. Please do not return the product to the distributor.

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

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







		PARTS BREAKDOWN		
Item	Order Part #	Description		
1KIT	105500-60	Centercase/Pushpad SubAssembly, 20 series RHR, 36", 630 (includes 1A)		
	105500-61	Centercase/Pushpad SubAssembly, 50 series RHR, 36", 630 (includes 1A)		
1A	101463-1	Centercase Assembly, RHR, Narrow Stile, 50 series		
	101463-2	Centercase Assembly, RHR, Wide Stile, 20 series		
	101463-3	Centercase Assembly, LHR, Narrow Stile, 50 series		
	101463-4	Centercase Assembly, RHR, Wide Stile, 20 series		
2KIT	103806-13	Mounting Plate/Strike Locator Kit, Narrow Stile (includes 2A, 2B, 2C)		
	103806-10	Mounting Plate/Strike Locator Kit, Wide Stile (includes 2A, 2B, 2C)		
2A	100696-1	Mounting Plate, BP1, Wide Stills		
	100697-1	Mounting Plate, BP1, Wide Stile		
2B 2C	101511-1	Strike Locator		
20	100720 101506-9	Centercase Locator Centercase Cover, Stainless Steel, Wide, 20 series, 630		
		Centercase Cover, Stainless Steel, Wide, 20 Series, 630 Centercase Cover, Stainless Steel, Narrow, 50 series, 630		
3	101505-9 104640-5	Centercase Cover, Aluminum, Wide, 20 series, 628		
	104602-5	Centercase Cover, Aluminum, Narrow, 50 series, 628		
4	101709	Centercase Cover, Administri, Narrow, 30 series, 020 Centercase Cover Cap (for TRO device only)		
	100147	Endcap bracket for EC1 (ramped) endcap w/o battery holder		
5	101093	Endcap bracket for EC1 (ramped) endcap w/ battery holder		
	104303	Endcap bracket for EC2 (flush) endcap w/o battery holder		
	104636	Endcap bracket for EC2 (flush) endcap w/ battery holder		
	101642-9	Endcap, EC1 (ramped) Stainless Steel, 630		
6	104304-9	Endcap, EC2 (flush) Stainless Steel, 630		
	104612-1	Endcap, EC2 (flush) Aluminum, 628		
	100860-136	Fillerplate, Subassembly, S&R, Hex Dogging, HD, 20 series, 36", 630		
_	100860-118	Fillerplate, Subassembly, S&R, Cylinder Dogging, CD, 20 series, 36", 630		
7	100860-100	Fillerplate, Subassembly, S&R, Hex Dogging, HD, 20 series, 36", 628		
	100860-137	Fillerplate, Subassembly, S&R, Hex Dogging, HD, 50 series, 36", 628		
8	100450	Hex Key (for Hex Dogging)		
9	100783	Cylinder Nut (for Cylinder Dogging)		
10	102216-2	Hex Dogging Assembly		
	102216	Cylinder Dogging Assembly		
11KIT	T 100855-3 97 Strike Kit (includes 11A & 11B)			
L	100855-4	96 Strike Kit (includes 11C & 11D)		
11A	100088	Strike Shim		
11B	100234-1	Strike, Non-roller		
11C	101067	Strike Shim, Narrow		
11D 12KIT	100330	Strike, Non-roller, Narrow Top Latch Assembly (includes 12A)		
12A	101464	Top Latch Assembly (includes 12A) Mounting Bracket, Top Latch Assembly		
13	101393 101400-9	Top Latch Cover 630		
14	101400-9	Rod Cover Bracket		
	104051-1	Top Rod, 7' Door, Steel (36.375" long)		
15	104051-1	Top Rod, 8' Door, Steel (48.375" long)		
16	101574-2	1/4-20 Hex Bolt, 2" long		
	101487-9	Top Rod Cover, 7' & 10' applications 630 (x 2 FOR 10')		
17	101461-9	Top Rod Cover, 8' applications		
18	101716	Mylar Bottom Latch Bracket Locator		
19	101428	Bracket, Top (for bottom rod bolt)		
20	101427	Bolt Retaining Bracket		
21	101429	Hex Bushing		
22	101562-9	Dust Strike		
23KIT	101567	Bottom Rod Assembly (includes 23A-23D)		
23A	101574-3	1/4-20 Hex Bolt, 3" long		
23B	101477	Bottom Rod		
23C	PP-5062-37	3/8-16 x 21/64 thick Hex Nut		
23D	101430	Bottom Bolt		
24	101486-9	Bottom Rod Cover 630		
25	101426-9	Bottom Cover 630		

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

EC1 (ramped) Device hardware kit: p/n 101564-1 for Hex Dogging (HD)

EC1 (ramped) Device hardware kit: p/n 101564-2 for Cylinder Dogging (CD)

EC2 (flush) Device hardware kit: p/n 105724-1 for Hex Dogging (HD)

EC2 (flush) Device hardware kit: p/n 105724-2 for Cylinder Dogging (CD)

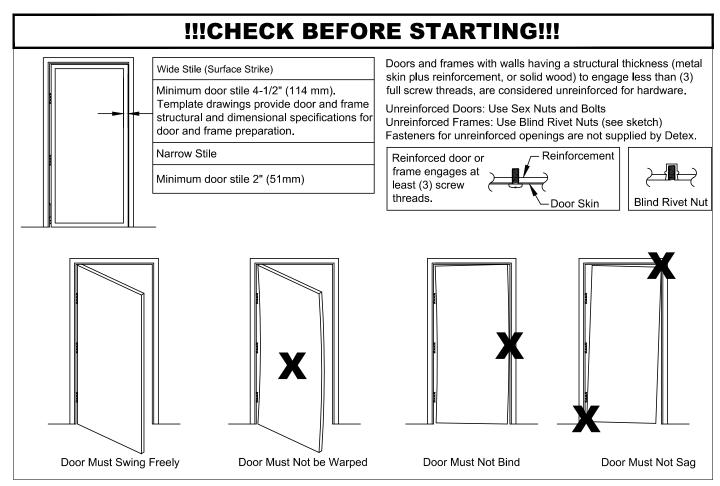
	Fastener Part No	Drill Bit community
	P/N: 100980 1/4-20 x 1" PPH	#7 or 13/64"
	P/N: 101621-5 1/4-20 x 1/4" PPH	#7 or 13/64"
	P/N: 101632-2 10-32 x 5/16" PFHU	
	P/N: 101950-105 8-32 x 5/16" PFHU	
mmm	P/N: 100162-106 6-32 x 3/8" PFHU	
	P/N: 103276-63 #14 x 1" PPH SELF DRILLING	1/8 pilot hole recommended for self-drilling screws
	P/N: PP-5183-110 #14 x 1-1/4" PPH WOOD SCREW	
	P/N: 103276-41 #10 x 1" PPH SELF DRILLING	
	P/N: PP-5183-68 #10 x 1" PPH	
	P/N: PP-5067-25 1/4" Lockwasher	

P/N: 101574-1 1/4-20 x 1" BOLT	
P/N: 101574-4 1/4-20 x 4" BOLT	
P/N: 101574-5 1/4-20 x 5" BOL	.т
	P/N: 101574-6 1/4-20 x 6" BOLT

Tools Required:

Power Drill Level Combination Square Safety Glasses Pencil Tape Measure Center Punch

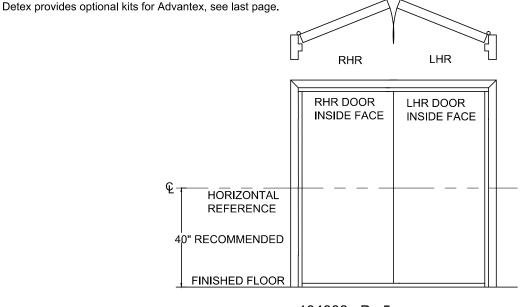
3 /16" & 5 /32" Allen Wrenches #2 and #3 Phillips Screw Drivers



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.

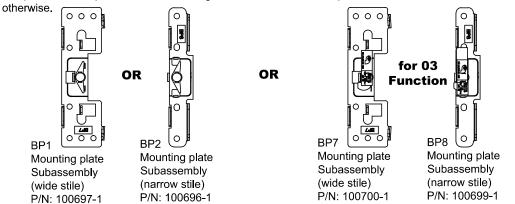
WHEN PLACING EXIT DEVICES ON EXISTING DOORS, DETEX OFFERS SVR REINFORCEMENT KIT #101063 TO STRENGTHEN THE TOP & BOTTOM BOLT INSTALLATION

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



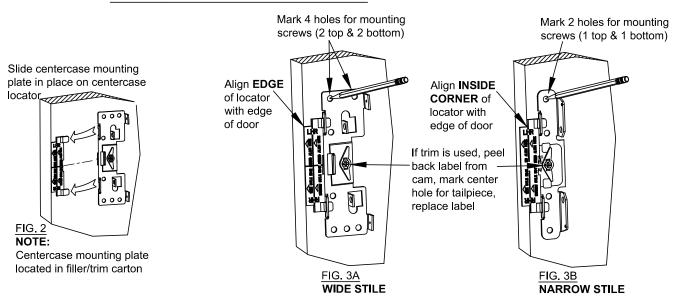
MOUNTING PLATE & STRIKE INSTALLATION:

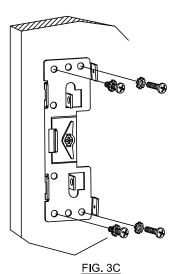
The installation of a wide or narrow device is the same except for the mounting plate (see illustration below) and plastic locator positions when marking holes. This instruction depicts a BP1 installation unless noted



MOUNTING PLATES SHOWN ABOVE FOR USE WITH LEVER TRIM

RETROFIT NOTE: DO NOT RE-USE OLD MOUNTING PLATE!





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.

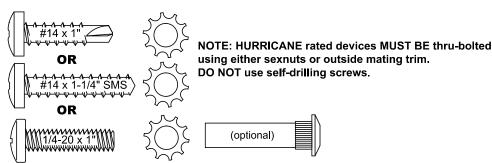
Approx. 6 inches

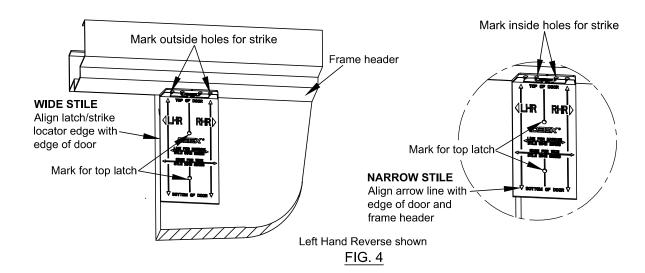
RECOMMENDED

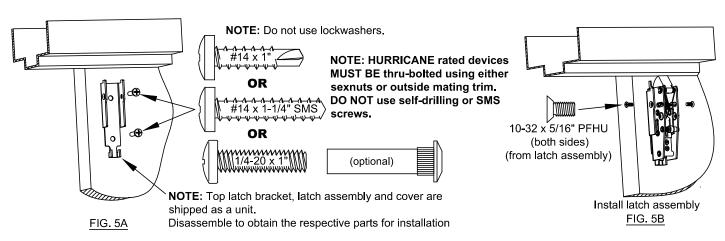
Mark centerline for unit 40 inches from finished Floor

FIG. 1

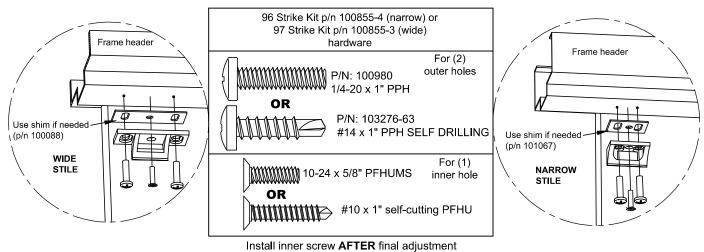
IF OUTSIDE TRIM IS USED, REFER TO OUTSIDE TRIM INSTRUCTIONS NOW.







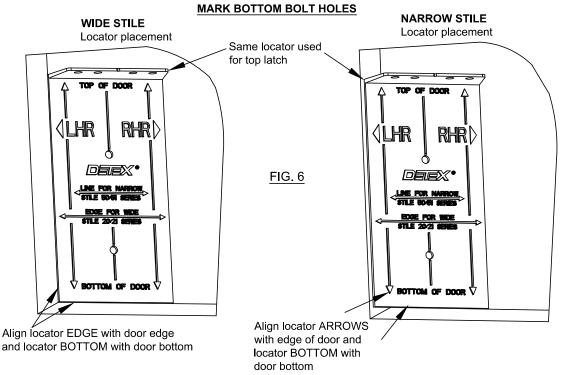
INSTALL TOP STRIKE



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

FIG. 5C

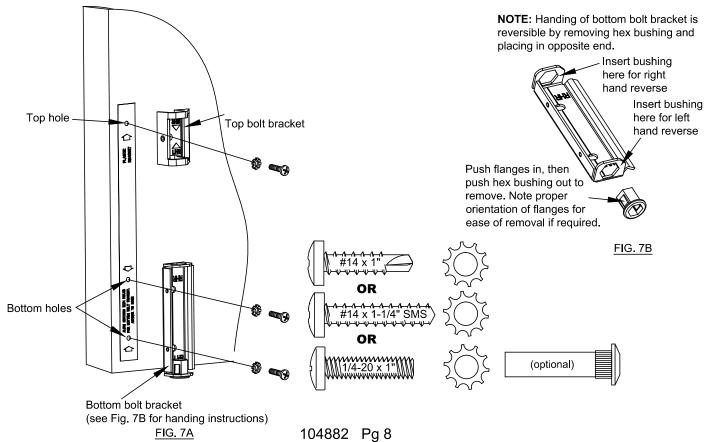
104882 Pg 7



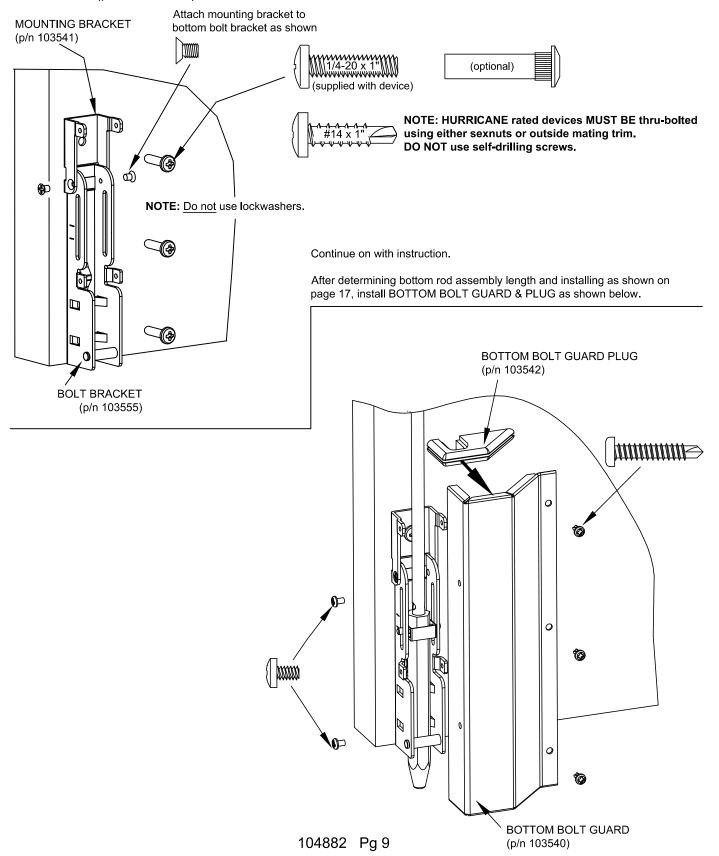
INSTALL BOTTOM BOLT BRACKET:

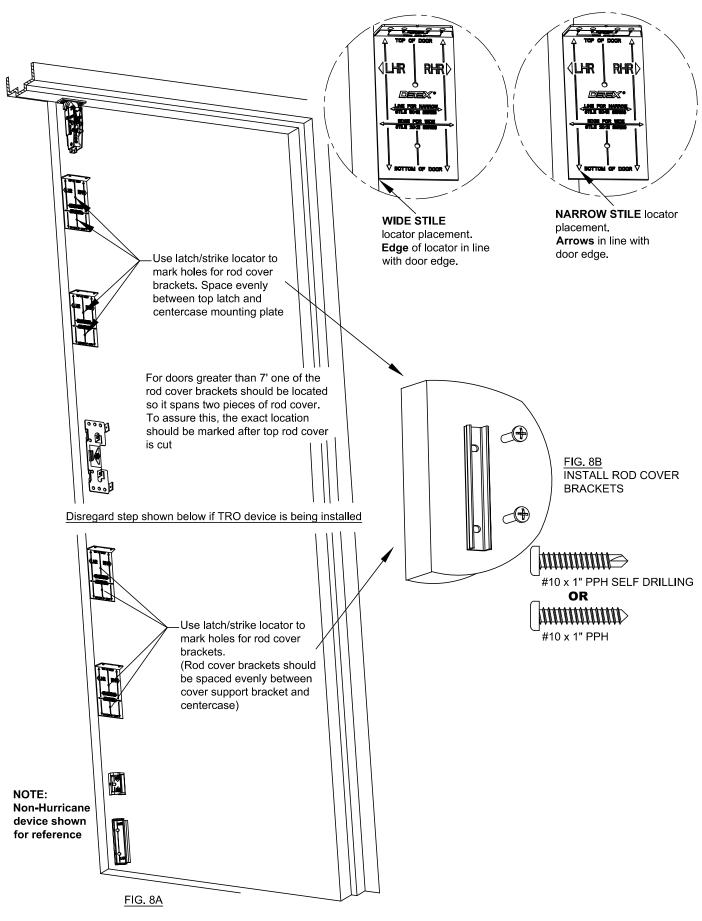
NOTE: Description below is for STANDARD device. For HURRICANE device, see next page.

- 1. Align two bottom holes of mylar bracket locator to previously marked hole locations.
- 2. Adhere mylar bracket locator to door (locator may remain permanently in place).
- 3. Drill through top hole of mylar bracket locator.
- 4. Drill holes for bottom bolt bracket.

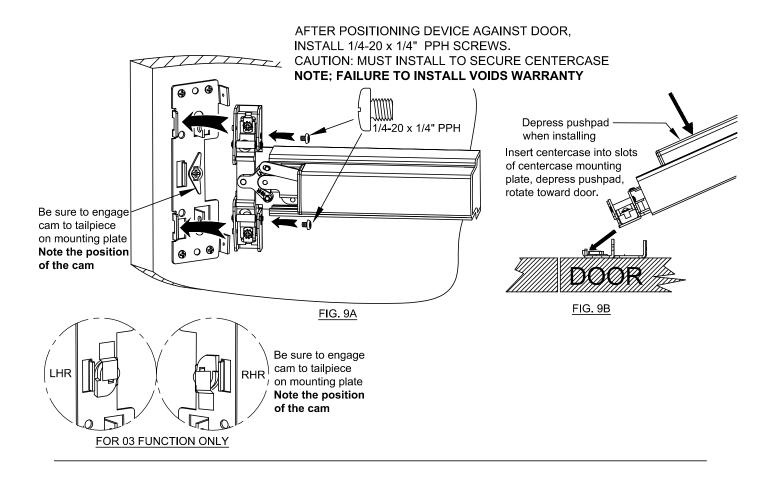


Unless otherwise noted, parts and hardware shown below are supplied in Advantex Bottom Bolt Hurricane Kit (p/n 103562-1)

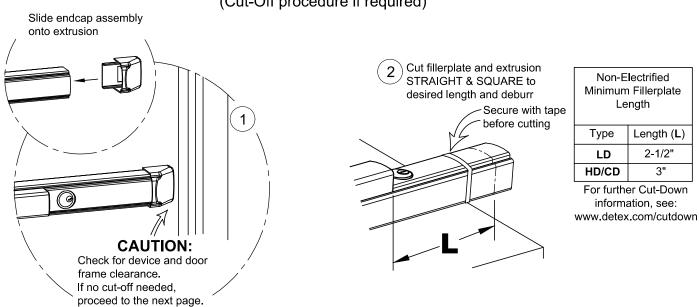




104882 Pg 10



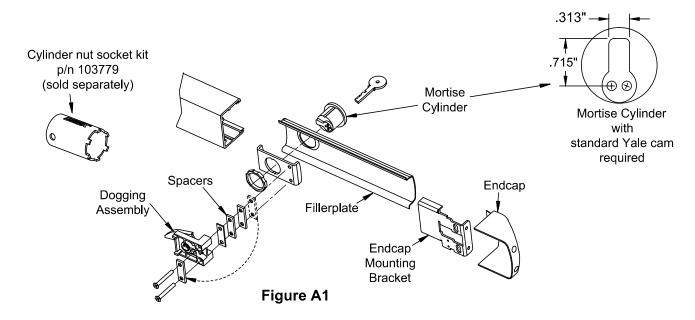
CHECKING FOR DEVICE CLEARANCE (Cut-Off procedure if required)



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.

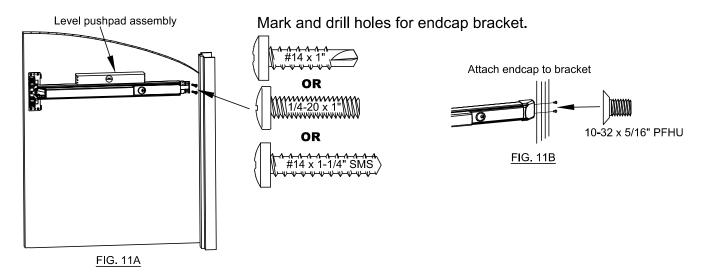
MORTISE CYLINDER INSTALLATION CD (Cylinder Dogging) Cylinder Installation



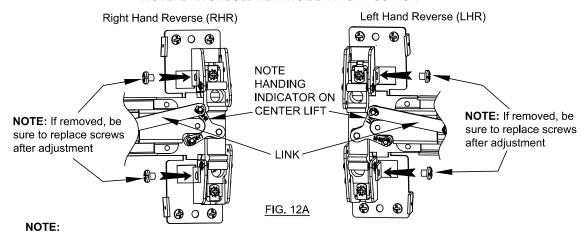
Follow steps "a" through "g" for CD installations

- 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 Figure A1). 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.

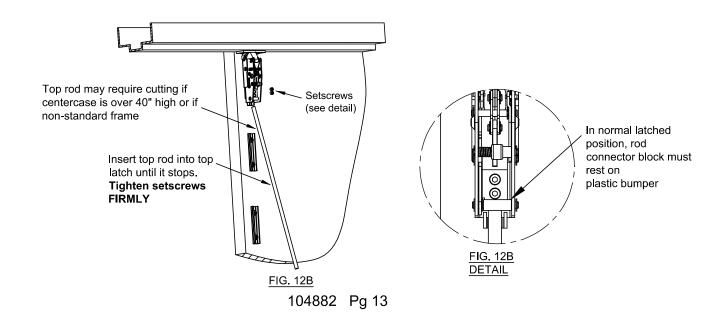


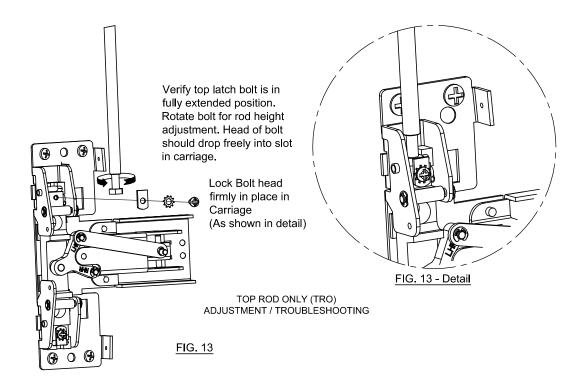
NOTE: LINK SHOULD ALWAYS BE IN TOP POSITION



If link is not in uppermost position on the centerlift, carefully remove "E" clips and reposition link on top pin of the centerlift and replace "E" clips. (An additional "E" clip is provided on opposite link pin.)

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





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 screw. Lock the strike in position with this third screw. (See Fig. 5C)

NOTE: For centerline heights significantly higher or lower than the specified 40", it may be necessary to use shorter or longer adjustment hexbolts in the rods to effect appropriate adjustment. Additional adjustment screw lengths have been packaged in the hardware kit to provide heights up to 41-1/2" and down to 36-1/2". For some door heights it may be necessary to cut the rod. Be sure to cut the un-threaded end.

TROUBLESHOOTING

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. 12A).

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

Check position of rod dampener and move it below rod cover bracket.

Check rod adjustment (Fig 13).

Check centercase, verify that the 1/4-20 x 1/4" screws have been installed (See Fig. 9A).

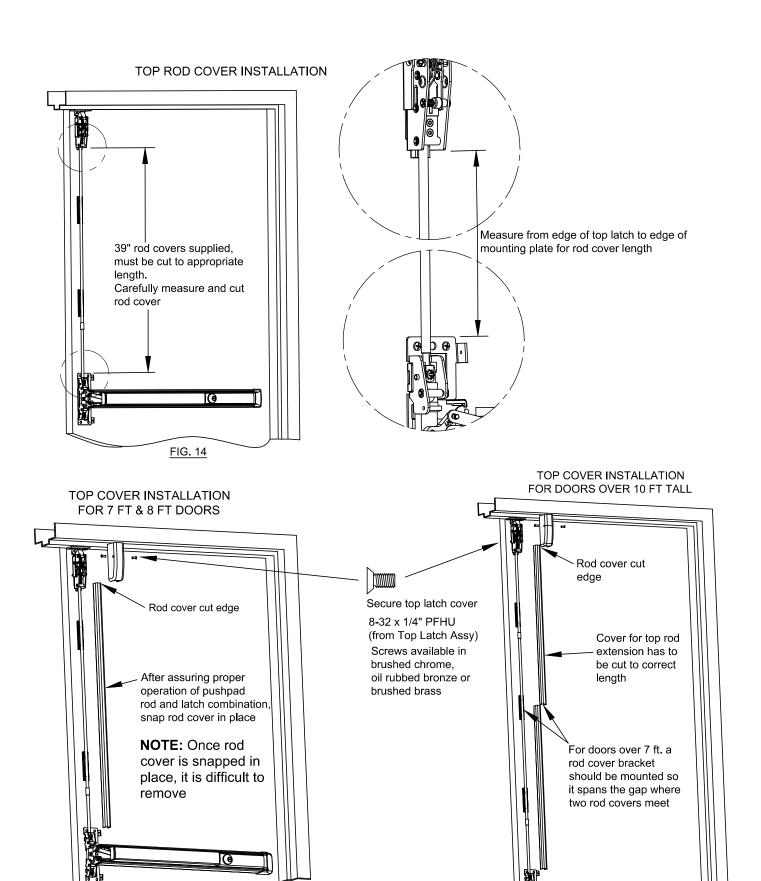


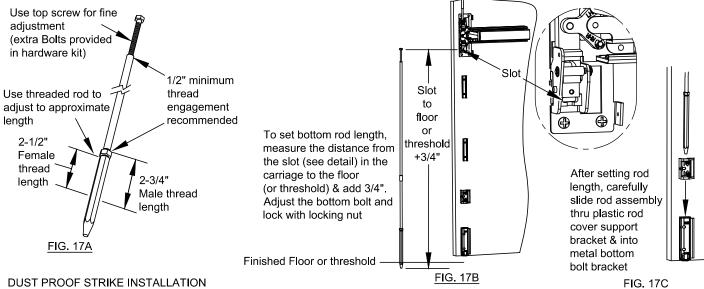
FIG. 16

If installing a TRO device skip to Fig. 24 on page 16 and continue 104882 Pg 15

FIG. 15

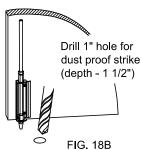
INITIAL BOTTOM ROD ADJUSTMENT:

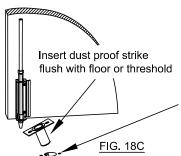
NOTE: Description below is for STANDARD device. For HURRICANE device, see next page.



DUST PROOF STRIKE INSTALLATION

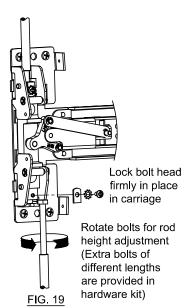


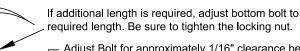




Drill holes for strike mounting screws and secure strike with screws provided with dust proof strike.

Drill 3/16" hole for plastic anchor. Drill 5/16" hole for metal anchor.





Adjust Bolt for approximately 1/16" clearance between end of bolt and surface of strike when retracted.

Open and close door to be sure bolt does not hit high areas of floor. Re-adjust if necessary. Confirm that the bolt drops freely and does not bind when latch is released

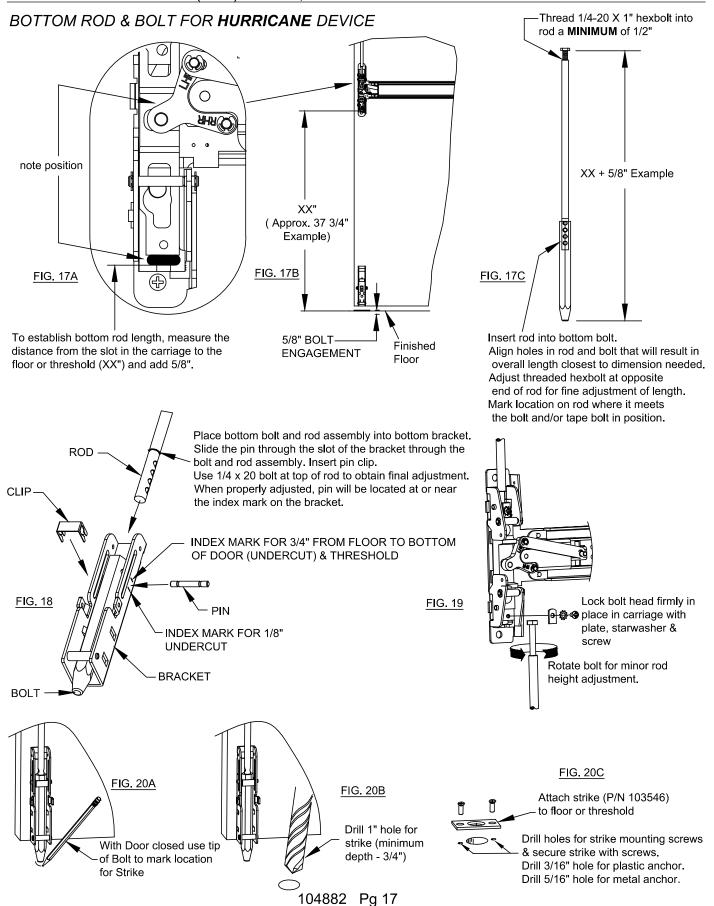
BOTTOM LATCH Testing and Adjustment Testing

FIG. 20

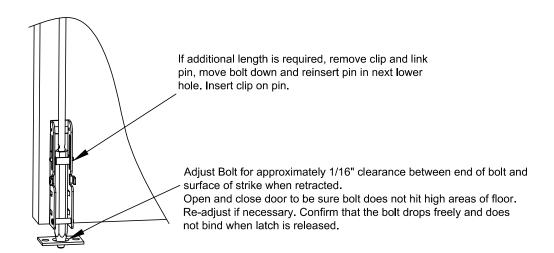
- 1. Close the door: Bolt should drop into the "dust proof strike" as the door moves into the fully closed position.
- 2. Press the pushpad and open the door: The bottom latch bolt should retract out of the dust proof strike and clear the strike by 1/16" to 1/8". Vertical travel of the bolt should be 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 dust proof 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.
- 2. If bolt does not completely drop when the latch is released: Check the bottom bolt bracket and be sure the bolt is aligned in the hexagonal plastic bushing. Proper alignment will allow the bolt to freely drop through the bushing.



BOTTOM BOLT TESTING AND ADJUSTMENT FOR HURRICANE DEVICE



BOTTOM BOLT 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.

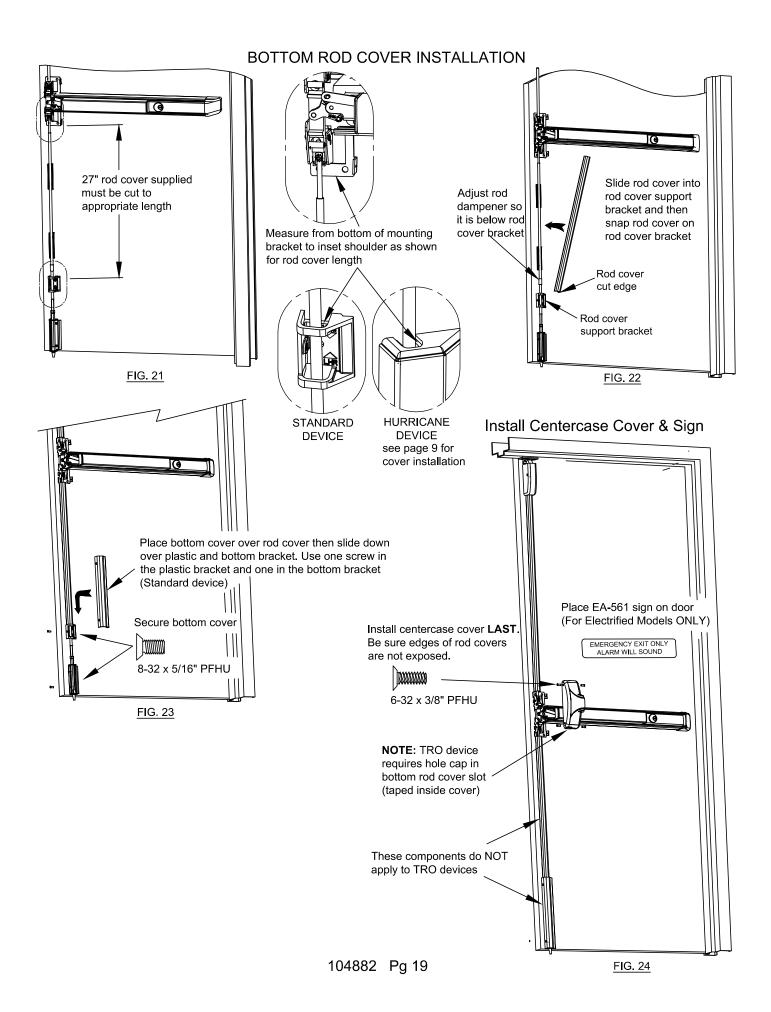
Adjustment

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

Loosen bolt retainer in the carriage assembly and pull bolt from carriage.

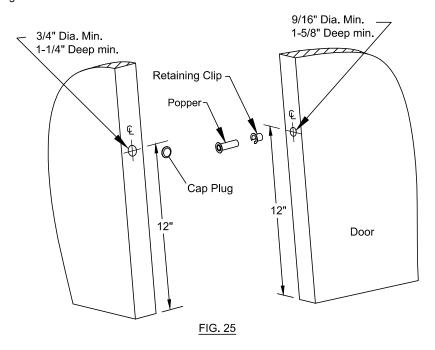
Screw bolt onto bottom rod one or two turns and return it to the carriage.

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 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.

Narrow Stile Endcap Mounting Plate Fascia (For use on Glass Doors) (not used with EC2 endcap)

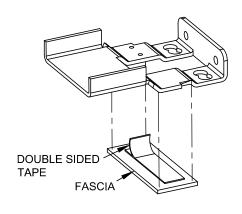


FIG. 26

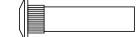
- a. Remove the endcap mounting bracket.
- b. Attach the fascia with the adhesive tape as shown in Fig. 28.
- c. Re-attach the endcap mounting bracket.

Optional Accessories Glass Bead Kit 00 Catalog No: GB3 -20 Series, 7 foot (p/n 101519-4) 0 0 GB4 -21 Series, 7 foot (p/n 101519-1) GB5 -50 Series, 7 foot (p/n 101519-14) GB6 -51 Series, 7 foot (p/n 101519-11) 0 GB7 -20 Series, 8 foot (p/n 101519-5) GB8 -21 Series, 8 foot (p/n 101519-2) GB9 -50 Series, 8 foot (p/n 101519-9) GB10 -51 Series, 8 foot (p/n 101519-12) GB11 -20 Series, 10 foot (p/n 101519-6) 0 0 GB12 -21 Series, 10 foot (p/n 101519-3) #1/4-20 X 1-1/2" Screws GB13 -50 Series, 10 foot (p/n 101519-16) Included 0 0 GB14 -51 Series, 10 foot (p/n 101519-13)

Narrow

Wide

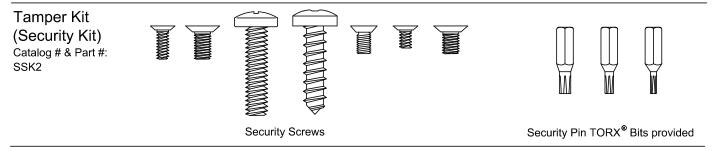




The #1/4-20 kit is available in (4) finishes:

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-X



Cylinder nut socket p/n: 103779



The following Models in the series were evaluated by UL: Controlled Exit Panic Devices; Model 20/21 and 50/51. These devices may be suffixed with 01, 02, 03, 08, 09, or 14 followed by C, CN, D, DN, P, PN, W, or WS followed by BP1, BP2, BP7 or BP8, followed by 605, 606, 611, 612, 613, 625, 626, 628, 629, 630, 693, 695 or 711 followed by the RHR or LHR, followed by EA, which may be followed by LD or CD, followed by 605, 606, 611, 612, 613, 625, 626, 628, 629, 630, 693, 695 or 711 followed by 96 or 97, followed by 36 or 48.