# Installation Instructions for Advantex® Surface Vertical Rod

## 20/21/50/51 Series, F20/F21/F50/F51 Series, "W" (Weatherized) and "H" (Hurricane) Models

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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/videos
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<td>Bottom Cover 630</td>
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Your particular part or configuration may not be shown: Contact Detex technical support at 800-729-3839 (option 2)
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<th>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</th>
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| **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** |
| 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 | ——— |
| 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 | ——— |
| **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 |

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### CHECK BEFORE STARTING!!!

**Wide Stile (Surface Strike)**
- Minimum door stile 4-1/2" (114 mm)
- Template drawings provide door and frame structural and dimensional specifications for door and frame preparation.

**Narrow Stile**
- Minimum door stile 2" (51 mm)

Doors and frames with walls having a structural thickness (metal skin plus reinforcement, or solid wood) 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.

**Reinforced door or frame engages at least (3) screw threads.**

---

Door Must Swing Freely
Door Must Not be Warped
Door Must Not Bind
Door Must Not Sag

---

**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 ITS 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.
Detex provides optional kits for Advantex, see last page.

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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 otherwise.

BP1
Mounting plate Subassembly (wide stile)
P/N: 100697-1

BP2
Mounting plate Subassembly (narrow stile)
P/N: 100696-1

BP7
Mounting plate Subassembly (wide stile)
P/N: 100700-1

BP8
Mounting plate Subassembly (narrow stile)
P/N: 100699-1

MOUNTING PLATES SHOWN ABOVE FOR USE WITH LEVER TRIM

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

Slide centercase mounting plate in place on centercase locator.

FIG. 2
NOTE:
Centercase mounting plate located in filler/trim carton

Align EDGE of locator with edge of door

Align INSIDE CORNER of locator with edge of door

If trim is used, peel back label from cam, mark center hole for tailpiece, replace label

Mark 4 holes for mounting screws (2 top & 2 bottom)

Mark 2 holes for mounting screws (1 top & 1 bottom)

FIG. 3A WIDE STILE
FIG. 3B NARROW STILE

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.

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

NOTE: HURRICANE rated devices MUST BE thru-bolted using either sexnuts or outside mating trim. DO NOT use self-drilling screws.

FIG. 3C
**NOTE:** Do not use lockwashers.

**NOTE:** HURRICANE rated devices MUST BE thru-bolted using either sexnuts or outside mating trim. DO NOT use self-drilling or SMS screws.

**NOTE:** Top latch bracket, latch assembly and cover are shipped as a unit. Disassemble to obtain the respective parts for installation.

**INSTALL TOP STRIKE**

<table>
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<tr>
<th>96 Strike Kit p/n 100855-4 (narrow) or 97 Strike Kit p/n 100855-3 (wide) hardware</th>
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<tbody>
<tr>
<td>P/N: 100980 1/4-20 x 1” PPH for (2) outer holes</td>
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<tr>
<td>P/N: 103276-63 #14 x 1” PPH SELF DRILLING</td>
</tr>
<tr>
<td>10-24 x 5/8” PFHUMS for (1) inner hole</td>
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<tr>
<td>#10 x 1” self-cutting PFHU</td>
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Install Inner screw AFTER final adjustment
(See Pg. 13 Adjustment/Troubleshooting, Note #4)

**FIG. 5C**

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NOTE: IF TOP ROD ONLY (TRO) DEVICE, SKIP THIS PAGE AND CONTINUE WITH INSTALLATION

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.

NOTE: Handling of bottom bolt bracket is reversible by removing hex bushing and placing in opposite end.

Push flanges in, then push hex bushing out to remove. Note proper orientation of flanges for ease of removal if required.

FIG. 6

FIG. 7A

FIG. 7B
Unless otherwise noted, parts and hardware shown below are supplied in Advantex Bottom Bolt Hurricane Kit (p/n 103562-1)

**NOTE:** Do not use lockwashers.

Attach mounting bracket to bottom bolt bracket as shown.

**NOTE:** HURRICANE rated devices MUST BE thru-bolted using either sexnuts or outside mating trim. DO NOT use self-drilling screws.

Continue on with instruction.

After determining bottom rod assembly length and installing as shown on page 17, install BOTTOM BOLT GUARD & PLUG as shown below.
Use latch/strike locator to mark holes for rod cover brackets. Space evenly between top latch and centercase mounting plate.

For doors greater than 7' one of the rod cover brackets should be located so it spans two pieces of rod cover. To assure this, the exact location should be marked after top rod cover is cut.

Disregard step shown below if TRO device is being installed.

Use latch/strike locator to mark holes for rod cover brackets. (Rod cover brackets should be spaced evenly between cover support bracket and centercase.)

NOTE:
Non-Hurricane device shown for reference.

FIG. 8A

WIDE STILE locator placement. Edge of locator in line with door edge.

NARROW STILE locator placement. Arrows in line with door edge.

FIG. 8B
INSTALL ROD COVER BRACKETS

#10 x 1" PPH SELF DRILLING OR

#10 x 1" PPH
AFTER POSITIONING DEVICE AGAINST DOOR, INSTALL 1/4-20 x 1/4" PPH SCREWS. CAUTION: MUST INSTALL TO SECURE CENTERCASE NOTE: FAILURE TO INSTALL VOIDS WARRANTY

Be sure to engage cam to tailpiece on mounting plate Note the position of the cam

FIG. 9A

Depress pushpad when installing
Insert centercase into slots of centercase mounting plate, depress pushpad, rotate toward door.

FIG. 9B

FOR 03 FUNCTION ONLY

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

1. Slide endcap assembly onto extrusion

CAUTION:
Check for device and door frame clearance. If no cut-off needed, proceed to the next page.

2. Cut fillerplate and extrusion STRAIGHT & SQUARE to desired length and deburr
Secure with tape before cutting

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

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<th>Type</th>
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</tr>
<tr>
<td>HD/CD</td>
<td>3&quot;</td>
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Non-Electrified Minimum Fillerplate Length

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 cut, 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 (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.
Mark and drill holes for endcap bracket.

Attach endcap to bracket

**FIG. 11B**

10-32 x 5/16" PFHU

**NOTE:** LINK SHOULD ALWAYS BE IN TOP POSITION

Right Hand Reverse (RHR)  

Left Hand Reverse (LHR)

**NOTE:** If removed, be sure to replace screws after adjustment

**NOTE:** If removed, be sure to replace screws after adjustment

**FIG. 12A**

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 rod may require cutting if centercase is over 40" high or if non-standard frame

Insert top rod into top latch until it stops. **Tighten setscrews FIRMLY**

**FIG. 12B**

Setscrews (see detail)

In normal latched position, rod connector block must rest on plastic bumper

**FIG. 12B DETAIL**
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 an #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

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. 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).
TOP ROD COVER INSTALLATION

39" rod covers supplied, must be cut to appropriate length. Carefully measure and cut rod cover.

FIG. 14

Measure from edge of top latch to edge of mounting plate for rod cover length.

TOP COVER INSTALLATION FOR 7 FT & 8 FT DOORS

Rod cover cut edge

After assuring proper operation of pushpad rod and latch combination, snap rod cover in place.

NOTE: Once rod cover is snapped in place, it is difficult to remove.

FIG. 15

Secure top latch cover 8-32 x 1/4" PFHU (from Top Latch Assy) Screws available in brushed chrome, oil rubbed bronze or brushed brass.

FIG. 16

For doors over 7 ft. a rod cover bracket should be mounted so it spans the gap where two rod covers meet.

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

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NOTE: IF TOP ROD ONLY (TRO) DEVICE, SKIP THIS PAGE AND CONTINUE WITH INSTALLATION

INITIAL BOTTOM ROD ADJUSTMENT:
NOTE: Description below is for STANDARD device. For HURRICANE device, see next page.

Use top screw for fine adjustment (extra bolts provided in hardware kit)

Use threaded rod to adjust to approximate length

1/2" minimum thread engagement recommended

2-1/2" Female thread length

2-3/4" Male thread length

To set bottom rod length, measure the distance from the slot (see detail) in the carriage to the floor (or threshold) & add 3/4". Adjust the bottom bolt and lock with locking nut

After setting rod length, carefully slide rod assembly thru plastic rod cover support bracket & into metal bottom bolt bracket

FIG. 17A

FIG. 17B

FIG. 17C

DUST PROOF STRIKE INSTALLATION

With Door closed use tip of Bolt to mark location for Dust Proof Strike

Drill 1" hole for dust proof strike (depth - 1 1/2"

Insert dust proof strike flush with floor or threshold

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.

FIG. 18A

FIG. 18B

FIG. 18C

If additional length is required, adjust bottom bolt to required length. Be sure to tighten the locking nut.

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.

FIG. 19

FIG. 20

ROTATE BOLTS FOR ROD

Lock bolt head firmly in place in carriage

(Extra bolts of different lengths are provided in hardware kit)

BOTTOM LATCH Testing and Adjustment

Testing
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.
**NOTE:** IF TOP ROD ONLY (TRO) DEVICE, SKIP THIS PAGE AND CONTINUE WITH INSTALLATION

**BOTTOM ROD & BOLT FOR HURRICANE DEVICE**

To establish bottom rod length, measure the distance from the slot in the carriage to the floor or threshold (XX") and add 5/8".

**FIG. 17A**

- Place bottom bolt and rod assembly into bottom bracket. Slide the pin through the slot of the bracket through the bolt and rod assembly. Insert pin clip.
- Use 1/4 x 20 bolt at top of rod to obtain final adjustment. When properly adjusted, pin will be located at or near the index mark on the bracket.

**FIG. 18**

- INDEX MARK FOR 3/4" FROM FLOOR TO BOTTOM OF DOOR (UNDERCUT) & THRESHOLD
- INDEX MARK FOR 1/8" UNDERCUT
- BRACKET

- With Door closed use tip of Bolt to mark location for Strike

**FIG. 20A**

- Drill 1" hole for strike (minimum depth - 3/4")

**FIG. 20B**

- Attach strike (P/N 103546) to floor or threshold
- Drill holes for strike mounting screws & secure strike with screws.
- Drill 3/16" hole for plastic anchor.
- Drill 5/16" hole for metal anchor.

**FIG. 20C**

- Lock bolt head firmly in place in carriage with plate, star washer & screw
- Rotate bolt for minor rod height adjustment.
BOTTOM BOLT TESTING AND ADJUSTMENT FOR HURRICANE DEVICE

If additional length is required, remove clip and link pin, move bolt down and reinsert pin in next lower hole. Insert clip on pin.

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 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.
BOTTOM ROD COVER INSTALLATION

27" rod cover supplied must be cut to appropriate length

Measure from bottom of mounting bracket to inset shoulder as shown for rod cover length

Adjust rod dampener so it is below rod cover bracket

Slide rod cover into rod cover support bracket and then snap rod cover on rod cover bracket

Rod cover cut edge
Rod cover support bracket

FIG. 21

FIG. 22

STANDARD DEVICE
HURRICANE DEVICE
see page 9 for cover installation

Install Centercase Cover & Sign

Place bottom cover over rod cover then slide down over plastic and bottom bracket. Use one screw in the plastic bracket and one in the bottom bracket (Standard device)

Secure bottom cover

8-32 x 5/16" PFHU

FIG. 23

Place EA-561 sign on door (For Electrified Models ONLY)

Install centercase cover LAST. Be sure edges of rod covers are not exposed.

6-32 x 3/8" PFHU

NOTE: TRO device requires hole cap in bottom rod cover slot (taped inside cover)

These components do NOT apply to TRO devices
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)

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
Catalog No:
GB3 -20 Series, 7 foot (p/n 101519-4)
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)
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)
GB12 -21 Series, 10 foot (p/n 101519-3)
GB13 -50 Series, 10 foot (p/n 101519-16)
GB14 -51 Series, 10 foot (p/n 101519-13)

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-X

Tamper Kit
(Security Kit)
Catalog # & Part #:
SSK2
Security Screws
Security Pin TORX® Bits provided

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.