ADVANTEX® CONCEALED VERTICAL ROD

Concealed Vertical Rod Exit Device
60 / F60 / 61 / F61 Series
Drawing no. 105260

for Narrow to Wide Stile
Aluminum or FRP
door applications

Fits 2" minimum stile width

TOP AND BOTTOM ROD
INSTALLATION
60 / F60

TRO - TOP ROD ONLY INSTALLATION
61 / F61

Owner's Copy

U.S. PATENT NUMBERS
6009732
6205825
6532777
<table>
<thead>
<tr>
<th>ITEM#</th>
<th>DESCRIPTION</th>
<th>Fire QTY</th>
<th>Fire QTY</th>
<th>Non-fire PART NUMBER</th>
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<tbody>
<tr>
<td>1</td>
<td>Top strike kit</td>
<td>1</td>
<td>1</td>
<td>105257-2</td>
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<tr>
<td>2</td>
<td>CVR strike shim</td>
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<td>3</td>
<td>CVR top strike pocket</td>
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<td>105235-1</td>
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<td>4</td>
<td>CVR top strike insert</td>
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<td>1</td>
<td>105236-1</td>
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<td>6</td>
<td>Top latch (Panic)</td>
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<td>1</td>
<td>104121-1</td>
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<td>Top latch (Fire)</td>
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<td>104121-2</td>
</tr>
<tr>
<td>7</td>
<td>Outer top rod, 7' thru 8'</td>
<td>1</td>
<td>1</td>
<td>104187</td>
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<tr>
<td></td>
<td>Outer top rod, 8'-1&quot; thru 10'</td>
<td></td>
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<td>105097</td>
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<tr>
<td>8</td>
<td>Inner top rod, 7' thru 8'</td>
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<td>1</td>
<td>104172-1</td>
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<tr>
<td></td>
<td>Inner top rod, 8'-1&quot; thru 10'</td>
<td></td>
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<td>104172-2</td>
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<tr>
<td>9</td>
<td>Center lift mechanism assembly</td>
<td>1</td>
<td>1</td>
<td>104175-X</td>
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<tr>
<td>10</td>
<td>CVR bottom rod</td>
<td>1</td>
<td>1</td>
<td>105098</td>
</tr>
<tr>
<td>11</td>
<td>Bottom latch, Aluminum application</td>
<td>1</td>
<td>1</td>
<td>104190-1</td>
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<tr>
<td>12</td>
<td>Bottom strike kit</td>
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<td>1</td>
<td>105257-3</td>
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<tr>
<td>13</td>
<td>Spring pin 3/16 x 13/16</td>
<td>1</td>
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<tr>
<td>14</td>
<td>Spring pin 3/16 x 1/2</td>
<td>1</td>
<td>1</td>
<td>103423</td>
</tr>
</tbody>
</table>

*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.*

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**Stainless Steel finish: 104112-X (AL) finish: 104602-X**

**Fillerplate Subassembly (LD)**

P/N: 100860-X

**Hex Nut**

P/N: 100783

**Fillerplate SubAssembly (CD)**

P/N: 100860-X

**Fillerplate SubAssembly (HD)**

Hex Key

P/N: 100450

---

<table>
<thead>
<tr>
<th>ITEM#</th>
<th>DESCRIPTION</th>
<th>QTY</th>
<th>PART NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>S&amp;R CVR Centcase/Pushpad Assy</td>
<td>1</td>
<td>105500-X</td>
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<tr>
<td>22</td>
<td>Endcap (EC1) (SS)</td>
<td>1</td>
<td>101842-X</td>
</tr>
<tr>
<td>23</td>
<td>Flush endcap (EC2) (AL)</td>
<td>1</td>
<td>104612-X</td>
</tr>
<tr>
<td>24</td>
<td>Flush endcap (EC2) (SS)</td>
<td>1</td>
<td>104304-X</td>
</tr>
<tr>
<td>25</td>
<td>Endcap mounting bracket (EC1)</td>
<td>1</td>
<td>100147</td>
</tr>
<tr>
<td>26</td>
<td>Flush endcap mounting bracket (EC2)</td>
<td>1</td>
<td>104303</td>
</tr>
<tr>
<td>27</td>
<td>S &amp; R Fillerplate subassembly</td>
<td>1</td>
<td>see above</td>
</tr>
<tr>
<td>28</td>
<td>Narrow centcase cover</td>
<td>1</td>
<td>see above</td>
</tr>
<tr>
<td>29</td>
<td></td>
<td></td>
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<tr>
<td>30</td>
<td>Narrow back plate (BP10 OR BP12)</td>
<td>1</td>
<td>104148-X</td>
</tr>
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</table>

104884  Page 2
## Tools Required

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Drill</td>
<td>Safety Glasses</td>
<td>Tape Measure</td>
<td>Pencil</td>
<td>Center Punch</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hammer</td>
<td>Screw Drivers - Phillips, Small Flat</td>
<td>Tap Wrench</td>
<td>Pliers</td>
<td>Level</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hack Saw (chopsaw preferred)</td>
<td>Hex Wrench - 5/64</td>
<td>Masonry Bits - 1&quot;, 5/16&quot;, 3/16&quot;</td>
<td>Drill bit set</td>
<td></td>
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</tbody>
</table>

## Fastener Table

*(Look for letter designation throughout instruction when screws are called for)*

### Device Mounting Hardware p/n: 105258-X

<table>
<thead>
<tr>
<th>screw style &amp; size</th>
<th>description</th>
<th>used on</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1/4-20 x 1&quot; PPHMS</td>
<td>Hollow metal / aluminum doors; backplate &amp; endcap bracket to door</td>
</tr>
<tr>
<td>B</td>
<td>#14 x 1&quot; PPH self-drilling</td>
<td>Hollow metal / aluminum doors; backplate &amp; endcap bracket to door (alternate)</td>
</tr>
<tr>
<td>C</td>
<td>#14 x 1/2&quot; PPH self cutting</td>
<td>Wood doors: backplate to door &amp; endcap bracket</td>
</tr>
<tr>
<td>D</td>
<td>10-24 x 1/4&quot; PPHMS</td>
<td>Device centercase to backplate</td>
</tr>
<tr>
<td>E</td>
<td>10-24 x 5/8&quot; PFHUMS</td>
<td>Centerlift mechanism to backplate</td>
</tr>
<tr>
<td>F</td>
<td>10-32 x 5/16&quot; PFHUMS</td>
<td>Endcap to endcap bracket</td>
</tr>
<tr>
<td>G</td>
<td>6-32 x 3/8&quot; PFHUMS</td>
<td>Centercase cover to backplate</td>
</tr>
</tbody>
</table>

### Strike Mounting Hardware p/n: 105257-X

<table>
<thead>
<tr>
<th>(used with anchors, two styles of anchors included)</th>
<th>#10 x 1&quot; self-cutting PFHU</th>
<th>Bottom strike to floor</th>
</tr>
</thead>
<tbody>
<tr>
<td>H</td>
<td>10-24 x 1/2&quot; PFHUMS</td>
<td>Bottom strike to floor (alternate)</td>
</tr>
<tr>
<td>I</td>
<td>10-32 x 1/2&quot; PFHUMS</td>
<td>Top strike pocket to header, insert to pocket</td>
</tr>
</tbody>
</table>

### Latch Mounting Hardware p/n: 105261-X

<table>
<thead>
<tr>
<th>10-24 x 5/16&quot; PFHUMS</th>
<th>Aluminum doors: Latch to door</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-24 x 3/4&quot; PPH self-cutting</td>
<td>Wood doors: Top &amp; bottom latch mounting brackets to door</td>
</tr>
<tr>
<td>10-24 x 3/8&quot; PPHMS</td>
<td>Hollow Metal / Wood doors: bottom bracket to latch Hollow Metal doors: Top &amp; bottom latch brackets to door</td>
</tr>
</tbody>
</table>
***CHECK BEFORE STARTING!!!***

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

![Door Dimensions Diagram](image)

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

**Door Skin**

**Blind Rivet Nut**

**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.*

![Door Measurement Diagram](image)

**Dimension table**

<table>
<thead>
<tr>
<th>Dimension name</th>
<th>Dimension value (fill in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opening Height</td>
<td></td>
</tr>
<tr>
<td>Door Height</td>
<td></td>
</tr>
<tr>
<td>Dimension &quot;A&quot;</td>
<td></td>
</tr>
<tr>
<td>Top Gap</td>
<td></td>
</tr>
<tr>
<td>Bottom Gap</td>
<td></td>
</tr>
<tr>
<td>Threshold Height</td>
<td></td>
</tr>
</tbody>
</table>

**Dimensions**

- RHR
- LHR
- RHR DOOR INSIDE FACE
- LHR DOOR INSIDE FACE
- DEVICE HORIZONTAL
- TOP GAP 1/8" (Standard)
- OPENING HEIGHT
- DOOR HEIGHT
- FINISHED FLOOR
- DIMENSION "A" (40" RECOMMENDED)
- BOTTOM GAP (Max 1-1/2")
- THRESHOLD HEIGHT (if used)
STEP 2: DOOR PREP - ALUMINUM & FRP DOOR

INSTALLATION SHOWN IN THIS INSTRUCTION IS FOR RIGHT HAND REVERSE (RHR)
LEFT HAND REVERSE (LHR) WILL BE OPPOSITE

DEVICE VERTICAL

HORIZONTAL DEVICE
RECOMMENDED 40" FROM FINISHED FLOOR
HINGE SIDE OF DOOR

TOP STRIKE FRAME PREP
(if not already prepped)

7/32" DIA. HOLE,
5/16" DIA. COUNTERSINK EACH HOLE

Door frame header

Top strike template
Template #105299

* NOTE:
FOR FURTHER DOOR CONSTRUCTION & FRAME PREP DETAILS, SEE TEMPLATE T2300 OR T2301 (FOR TRO) ON DETEX WEBSITE (WWW.DETEX.COM)
For 6'-8" (80") to 8'-0" (96") Door

**STEP 3: TOP ROD ASSEMBLY & INITIAL ADJUSTMENT**

3a. Align hole A in rod 104187 with hole in top latch as shown at right & tap the 13/16" long pin into latch hole.

3b. Measure **DIM B** as shown below.

3c. Use chart to determine pinning location of rods 104187 & 104172-1.
   Round **DIM B** to nearest value in chart.
   If more than 3/4" different from one of these chart values, drill a .189 (#12 drill bit) diameter hole halfway between the 2 holes nearest to the measured **DIM B** and use this hole as pinning hole in next step.

3d. Insert 104172-1 rod into 104187 rod & line up appropriate pinning holes (from chart) on both rods and tap in the 1/2" long pin to secure.

3e. Calculate **DIM D**:
   \[
   \text{DIM D} = \text{measured DIM B} - 15 \frac{7}{8}" \\
   \text{Thread the assembled rods/latch into the centerlift mechanism assembly as shown at right until **DIM D** is achieved (within 1/16")}.
   \]

---

**DIM D**

(see note below)

---

**TOP ROD pinning locations**

<table>
<thead>
<tr>
<th>for DIM B dimension of:</th>
<th>Align rod holes</th>
<th>Rod p/n 104187-1</th>
<th>Rod p/n 104172-1</th>
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<tr>
<td>39-7/8&quot;</td>
<td>2</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>40-7/8&quot;</td>
<td>2</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>41-7/8&quot;</td>
<td>2</td>
<td>D</td>
<td></td>
</tr>
<tr>
<td>43-7/8&quot;</td>
<td>1</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>44-7/8&quot;</td>
<td>1</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>45-7/8&quot;</td>
<td>1</td>
<td>D</td>
<td></td>
</tr>
<tr>
<td>47-7/8&quot;</td>
<td>1</td>
<td>E</td>
<td></td>
</tr>
<tr>
<td>49-7/8&quot;</td>
<td>1</td>
<td>F</td>
<td></td>
</tr>
<tr>
<td>51-7/8&quot;</td>
<td>1</td>
<td>G</td>
<td></td>
</tr>
<tr>
<td>53-7/8&quot;</td>
<td>1</td>
<td>H</td>
<td></td>
</tr>
<tr>
<td>55-7/8&quot;</td>
<td>1</td>
<td>J</td>
<td></td>
</tr>
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</table>

Note: If the combination of holes used is 2B or 2C, cut off approximately 2" from the UNTHEREAGED end of rod 104172-1.
For 8'-1" (97") to 10' (120") Door

STEP 3: TOP ROD ASSEMBLY & INITIAL ADJUSTMENT

3a. Align hole A in rod 105097 with hole in top latch as shown at right & tap the 13/16" long pin into latch hole.

3b. Measure DIM B as shown below.

3c. Use chart to determine pinning location of rods 105097 & 104172-2. Round DIM B to nearest value in chart. If more than 3/4" different from one of these chart values, drill a .189 (#12 drill bit) diameter hole halfway between the 2 holes nearest to the measured DIM B and use this hole as pinning hole in next step.

3d. Insert 104172-2 rod into 105097 rod & line up appropriate pinning holes (from chart) on both rods and tap in the 1/2" long pin to secure.

3e. Calculate DIM D:

\[
\text{DIM D} = \text{measured DIM B minus 15 7/8"}
\]

Thread the assembled rods/latch into the centerlift mechanism assembly as shown at right until DIM D is achieved (within 1/16").

### TOP ROD pinning locations

<table>
<thead>
<tr>
<th>DIM B dimension of:</th>
<th>Align rod holes</th>
<th>Rod p/n</th>
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<tbody>
<tr>
<td>55-7/8&quot;</td>
<td>1</td>
<td>B</td>
</tr>
<tr>
<td>56-7/8&quot;</td>
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<td>C</td>
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<tr>
<td>57-7/8&quot;</td>
<td>1</td>
<td>D</td>
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<tr>
<td>59-7/8&quot;</td>
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<td>61-7/8&quot;</td>
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<td>63-7/8&quot;</td>
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<td>67-7/8&quot;</td>
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<td>P</td>
</tr>
<tr>
<td>79-7/8&quot;</td>
<td>1</td>
<td>Q</td>
</tr>
</tbody>
</table>
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 mechanism to achieve DIM C (within 1/16").
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 $c$ 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.
**STEP 8: SECURE ROD / LATCH / CENTERLIFT ASSEMBLY TO DOOR**

8a. Attach back plate with two screws - DO NOT OVERTIGHTEN.
*Assembly hint: Assemble one screw loosely without backplate, then add second screw through backplate. Remove first screw, align backplate and then re-install first screw.*

8b. Attach top latch with two screws.
8c. Attach bottom latch with two screws.

**STEP 9: VERIFY CENTERLIFT MECHANISM OPERATION**

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 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.

9e. Upon completion, retract latches before proceeding to Step 10.
STEP 10: HANG DOOR / ASSEMBLE DEVICE TO DOOR

10a INSTALL DOOR ONTO FRAME PER MANUFACTURER'S SPECIFICATIONS

10b NOTE: LINK SHOULD ALWAYS BE IN TOP POSITION
Right Hand Reverse (RHR)  
Left Hand Reverse (LHR)

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.

10c REFER TO TRIM INSTRUCTIONS AT THIS TIME, IF APPLICABLE

10d COMPLETE BACKPLATE MOUNTING

Install screws & lockwashers 2 places

* If using sexnuts, install SN4 kit screws here. Use appropriate length screws for door thickness.

10e INSTALL DEVICE TO BACKPLATE

Install device to backplate & fasten with 2 screws. Depress pushpad appropriate amount to line up lift pin with tabs.

* If using sexnuts, Install SN3 kit here.

10f INSTALL ENDCAP BRACKET

Level device before installing endcap bracket

Mark & drill holes for endcap bracket screws

Ensure that device does not require cutting (see Step 10g on next page).

Test device function 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)

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

Slide endcap assembly onto extrusion

1

2

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

Secure with tape before cutting

Minimum Fillerplate Length

<table>
<thead>
<tr>
<th>Type</th>
<th>Length (L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD</td>
<td>2-1/2&quot;</td>
</tr>
<tr>
<td>HD/CD</td>
<td>3&quot;</td>
</tr>
</tbody>
</table>

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. 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

Door frame header

Door stop

Top strike pocket

Tilt strike pocket to fit into cutout

Shim

Strike insert

Door stop side

Begin strike installation with notched side of pocket towards inside door face. If additional adjustment is needed, rotate pocket 180°

Top strike pocket

Door frame header

Finished strike installation view

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

BOTTOM STRIKE HOLE LOCATION & DRILLING

12a

With door closed use tip of bolt to mark location for strike

12b

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

NOTE:
1. If using threshold, drill 5/8" hole.

12c

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.

Top Adjustment

LATCH EXTENDED POSITION
ADJUST WITH FLAT BLADE SCREWDRIVER (PUSH IN AND TURN)

Top Adjustment

LATCH EXTENDED POSITION
ADJUST WITH FLAT BLADE SCREWDRIVER (PUSH IN AND TURN)

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

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

DEVICE OPERATION TROUBLESHOOTING

<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device not latching when door closes</td>
<td>Bottom bolt is not properly aligned with bottom hole.</td>
<td>Modify bottom strike hole for fit.</td>
</tr>
<tr>
<td></td>
<td>Top strike insert is not installed or not correctly aligned with the holdback.</td>
<td>Install and/or position strike insert per instructions.</td>
</tr>
<tr>
<td></td>
<td>Through fasteners for trim (if applicable) are interfering with Internal centerlift assembly.</td>
<td>Loosen and re-position through screws to clear.</td>
</tr>
<tr>
<td></td>
<td>Rods improperly adjusted</td>
<td>Adjust rods per instructions.</td>
</tr>
<tr>
<td></td>
<td>Remove device and re-install per instructions.</td>
<td></td>
</tr>
<tr>
<td>Latches release, but pushpad will not fully depress</td>
<td>Device centercase lift finger not inserted property into centerlift assembly.</td>
<td>Remove device from backplate and re-install with lift finger correctly inserted.</td>
</tr>
<tr>
<td></td>
<td>Top adjustment screw is adjusted too far in the retracted direction (CCW).</td>
<td>Rotate top adjustment screw in the extended direction (CW) per FINE LATCH ADJUSTMENT procedure.</td>
</tr>
<tr>
<td>Latches are not releasing when pushpad is fully depressed</td>
<td>Device centercase lift finger not inserted property into centerlift assembly.</td>
<td>Remove device from backplate and re-install with lift finger correctly inserted.</td>
</tr>
<tr>
<td></td>
<td>Top adjustment screw is adjusted too far in the extended direction (CW)</td>
<td>Rotate top adjustment screw in the retracted direction (CCW) per FINE LATCH ADJUSTMENT procedure.</td>
</tr>
<tr>
<td></td>
<td>Bottom adjustment screw is adjusted too far in the extended direction (CCW).</td>
<td>Rotate bottom adjustment screw in the retracted direction (CW) per FINE LATCH ADJUSTMENT procedure.</td>
</tr>
</tbody>
</table>
STEP 14: COVER INSTALLATIONS

Install endcap with two screws to match finish
Install cover with four screws to match finish

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

Glass Bead Kit
Catalog No:
GB2 for EC1 endcap (p/n 101644)
GB18 for EC2 endcap (p/n 101644-1)

#1/4-20 X 1-1/2" Screws Included

Sex Nut Kits
The #1/4-20 kits are available in 3 finishes:
Brushed Brass BHMA 606
Oil Rubbed Bronze BHMA 613
Stainless Steel BHMA 630

Catalog No: SN4 (p/n: 105276-X) (supplied with screws)

Catalog No: SN3 (p/n: 105274-X) (uses screws in hardware kit)

Tamper Kit
(Security Kit)

Catalog No:
SSK4 (p/n 101233-2 for top & bottom rod applications)
SSK5 (p/n 101233-3 for top rod only applications)

Security Screws

Security Pin TORX® Bits provided

Cylinder nut socket
p/n: 103779