INSTALLATION INSTRUCTIONS FOR DETEX VALUE SERIES® RIM V40 SERIES
FV40 SERIES, "H" MODEL (HURRICANE), "W" MODEL (WEATHERIZED), V40NS (NARROW STILE)

Drawing: 101800
102400

U.S. PATENT NUMBERS:
6009732
6205825B1
6532777B2
INTERNATIONAL PATENT NUMBER:
PCT/US09/732

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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

Owner's Copy
<table>
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<tr>
<th>Item</th>
<th>Order Part #</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>100698-5</td>
<td>Centercase Assembly, Narrow Stile, V40 series</td>
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<td>106281</td>
<td>Baseplate Extrusion, 36&quot;, Silver</td>
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<td>106285</td>
<td>Baseplate Extrusion, 48&quot;, Silver</td>
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<td>Baseplate Extrusion, 36&quot;, Black</td>
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<td>3</td>
<td>103065-1</td>
<td>Pushpad Subassembly, 36&quot;</td>
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<td>Pushpad Subassembly, 48&quot;</td>
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<td>4KIT</td>
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<td>4A</td>
<td>100696-1</td>
<td>Mounting Plate, BP2, Narrow Stile</td>
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<td>4B</td>
<td>101899</td>
<td>Strike Locator 2&quot; Glass Door (98)</td>
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<tr>
<td>4C</td>
<td>100212</td>
<td>Strike Locator, Standard (99)</td>
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<td>5</td>
<td>101805-1</td>
<td>Centercase Cover, V40 series</td>
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<td>6</td>
<td>101844-1</td>
<td>Endcap bracket w/o battery holder</td>
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<td>101844</td>
<td>Endcap bracket w/ battery holder</td>
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<td>7</td>
<td>101822</td>
<td>Endcap</td>
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<td>Fillerplate, HD, 36&quot;</td>
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<td>8B</td>
<td>101812-2</td>
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<tr>
<td>8C</td>
<td>100164</td>
<td>Spacer, dogging bracket, .120&quot; thick</td>
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<tr>
<td>8D</td>
<td>102216-4</td>
<td>Die cast dogging assembly, HD</td>
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<tr>
<td>8E</td>
<td>PP-5802-124</td>
<td>Screw, mach, 10-32 x 1-1/2&quot; PFH</td>
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<tr>
<td>9KIT</td>
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<td>Fillerplate, Subassembly, S&amp;R, Cylinder Dogging, CD, V40 series, 36&quot; (includes 9A or 9B through 9G)</td>
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<tr>
<td>9A</td>
<td>102194-1</td>
<td>Fillerplate, CD, 36&quot;</td>
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<td>9B</td>
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<td>Fillerplate, CD, 48&quot;</td>
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<td>9C</td>
<td>100164</td>
<td>Spacer, dogging bracket</td>
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<td>9D</td>
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<td>Die cast dogging assembly, CD</td>
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<td>9F</td>
<td>102196</td>
<td>Bracket, fillerplate, V40, CD</td>
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<tr>
<td>9G</td>
<td>100938</td>
<td>Spacer, dogging bracket, .060&quot; thick</td>
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<td>10</td>
<td>100450</td>
<td>Hex Key (for Hex Dogging)</td>
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<td>11</td>
<td>100783</td>
<td>Cylinder Nut (for Cylinder Dogging)</td>
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<td>12KIT</td>
<td>100855-2</td>
<td>99 Strike Kit (includes 12A &amp; 12B)</td>
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<td>100855-1</td>
<td>98 Strike Kit (includes 12C, 12D &amp; 12E)</td>
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<td>102212-1</td>
<td>94 Double Door Strike Kit (includes 12F &amp; 12G)</td>
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<td>12A</td>
<td>100234-1</td>
<td>Strike, Non-roller</td>
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<td>12B</td>
<td>100088</td>
<td>Strike Shim</td>
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<tr>
<td>12C</td>
<td>100480</td>
<td>Strike, Mortise</td>
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<tr>
<td>12D</td>
<td>100482</td>
<td>Shim, Mortise Strike</td>
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<td>12E</td>
<td>100481</td>
<td>Shield, Strike</td>
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<td>12F</td>
<td>102211</td>
<td>Double Door Strike Plate</td>
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<td>12G</td>
<td>102214</td>
<td>Shim, 94 strike</td>
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<td>13</td>
<td>105417-1</td>
<td>Pushpad Wrap, 36&quot;, Red (English text)</td>
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<td>Pushpad Wrap, 48&quot;, Red (English text)</td>
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<td>Pushpad Wrap, 48&quot;, Black</td>
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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.

**Device hardware kit:** p/n 101809-2 for Hex Dogging (HD)

**Device hardware kit:** p/n 101809-5 for Cylinder Dogging (CD)

<table>
<thead>
<tr>
<th>Fastener Part No</th>
<th>Drill Bit</th>
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</thead>
<tbody>
<tr>
<td>P/N: 100980 1/4-20 x 1&quot; PPH</td>
<td>#7 or 13/64&quot;</td>
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<tr>
<td>P/N: 101621-5 1/4-20 x 1/4&quot; PPHMS</td>
<td>#7 or 13/64&quot;</td>
</tr>
<tr>
<td>P/N: 100162-106 6-32 x 3/8&quot; PFHUMS</td>
<td>---------</td>
</tr>
<tr>
<td>P/N: 103276-65 #14 x 1-1/2&quot; PPH self-drilling</td>
<td>1/8 pilot hole recommended for self-drilling screws</td>
</tr>
<tr>
<td>P/N: PP-5183-110 #14 x 1-1/4&quot; PPH wood screw</td>
<td>1/8 pilot hole recommended for wood screws</td>
</tr>
<tr>
<td>P/N: PP-5067-25 #14 Lockwasher</td>
<td></td>
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</tbody>
</table>

**99 Strike Kit:** p/n 100855-2  or  **98 Strike Kit:** p/n 100855-1

<table>
<thead>
<tr>
<th>Fastener Part No</th>
<th>Drill Bit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P/N: 100980 1/4-20 x 1&quot; PPH</td>
<td>#7 or 13/64&quot;</td>
<td>in both kits</td>
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<tr>
<td>P/N: 100112 10-24 x 5/8&quot; PFHUMS</td>
<td></td>
<td>in 99 kit only</td>
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<tr>
<td>P/N: 100162-1 6-32 x 5/8&quot; PFHUMS</td>
<td></td>
<td>in 98 kit only</td>
</tr>
<tr>
<td>P/N: 103276-63 #14 x 1&quot; PPH</td>
<td>1/8 pilot hole recommended for self-drilling screws</td>
<td>in both kits</td>
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<tr>
<td>P/N: 103277-216 #10 x 1&quot; self-cutting PFHU</td>
<td></td>
<td>in 99 kit only</td>
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<tr>
<td>P/N: 101451-1 #6 x 1&quot; self-cutting PFHU</td>
<td></td>
<td>in 98 kit only</td>
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</tbody>
</table>

## Tools Required:
- **Safety Glasses**
- **Pencil**
- **Phillips & small flat Screw Drivers**
- **Power Drill**
- **Hammer**
- **Combination Square**
- **Tape Measure**
- **Pliers**
- **Center Punch**
- **Level**
- **1/4-20 Tap**
- **Saw** for cutting device if necessary (chopsaw preferred)**
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 S.S. NUTS AND BOLTS
UNREINFORCED FRAMES: USE BLIND RIVET NUTS (SEE SKETCH)
FASTENERS FOR UNREINFORCED OPENINGS ARE NOT SUPPLIED BY DETEX.

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.
MOUNTING PLATE & STRIKE INSTALLATION:

1. RECOMMENDED
   Mark centerline for unit 40 inches above finished floor

2. Slide 99 strike locator into mounting plate.

3. Mark the holes
   Mounting plate hole
   If outside trim is used mark the hole in center of cam.
   If necessary, remove label temporarily to mark trim hole.

4. Centerpunch the mount plate & strike holes.
   No predrilling required for self-drilling screws.

5. Trim input hole (if necessary)
   (see outside trim instructions)

6. Fasten tightly
   OR
   Fasten loosely

NOTE: HURRICANE rated devices MUST BE thru-bolted using either sexnuts or outside mating trim

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

NOTE: If device is too long, refer to next page for cut-down procedure.

1. Position cam as shown
2. Insert centercase into slots of centercase mounting plate, DEPRESS PUSHPAD, rotate toward door.

3. Fasten rim device to mounting plate 1/4-20 x 1/4" 

MUST BE INSTALLED!
FAILURE TO INSTALL VOIDS WARRANTY

4. Slide fillerplate & endcap bracket into extrusion & level pushpad assembly.
Note: Endcap Bracket must bottom-out on extrusion.
DO NOT REMOVE NYLON SPACER ON BACK OF BRACKET!

5. With pushpad assembly level, secure the endcap bracket to door by tightening the factory installed self-drilling screw.

6. Slide and mount endcap to endcap bracket.
DO NOT OVERTIGHTEN SCREWS

7. If Pushpad Wrap is not already installed, follow step 7.
Peel off backing to expose tape.
Install Pushpad Wrap. Verify wrap is secured to tape by pushing until it snaps in place.

8. Align the 99 strike with the latchbolt. 
Firmly tighten screws (shim if needed)

9. Secure the 99 strike (Required on hurricane models)
Mark and drill center hole.
For 10-24 screw drill 9/64" hole.
For #10 x 1" self-cutting PFHU

10. REQUIRED SUPPORT SCREWS FOR HURRICANE MODELS
(Optional on non-hurricane models)

11. Install cover
Tighten with hand tools only.

Note:
Check device function and strike engagement BEFORE going to step 9
CHECKING FOR DEVICE CLEARANCE
(Cut-Off procedure if required)

1. Slide endcap assembly onto extrusion

CAUTION:
Check for device & door frame clearance. If no cut-off needed, proceed to MORTISE CYLINDER INSTALLATION

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

Secure with tape before cutting

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

MORTISE CYLINDER INSTALLATION (if required)

Slide / remove the fillerplate 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)

- All cylinder spacers must be used.
- Turn key max CCW before installing slide in fillerplate.
- Reinstall fillerplate subassembly

Mortise Cylinder with standard Yale cam required

0.313" .715"
98 STRIKE INSTALLATION
(not approved for Hurricane models)
(kit p/n: 100855-1)
Typically glass door

Align the strike with the latchbolt. Firmly tighten screws.

98 Strike locator

Door frame
Cutout per 98 strike
Mark and drill holes as necessary:
Trim door stop as required

#6 x 1" self-cutting PFHU
Drill 9/64"

6-32 x 5/8" PFHUMS
Drill 7/64" holes or

Shield
(if necessary)

Shin
(if necessary)

OR

#14 x 1"

10-24 x 5/8" PFHUMS
(p/n 100112)

#10 x 1" self-threading PFHU
(p/n 100109)

Sex nuts may be used.
The optional #10-32 sex nut kit is available in four finishes.
Order Catalog No: SN2 (specify finish required)

p/n 101617-2 Brushed Brass
p/n 101617-9 Stainless Steel
p/n 101617-20 Oil Rubbed Bronze

For mounting hole locations use strike locator (template) provided.

STRIKE HOOK INSTALLATION
Strike Hook Kit p/n 101795
(Caution: This installation is required on fire rated door openings with removable mullion.)

Narrow Stile Endcap Mounting
Plate Fascia (p/n 101864)
(For use on Glass Doors)

a. Remove the endcap mounting bracket.
b. Remove nylon spacer.
c. Slide fascia onto screw.
d. Reinstall nylon spacer.
e. Reinstall endcap mounting bracket.
94 DOUBLE DOOR STRIKE INSTALLATION
(not approved for Hurricane models)
(if required)

NOTE: FOR DEVICE FUNCTION AND OTHER DIMENSIONS, SEE APPROPRIATE DEVICE AND/OR TRIM INSTRUCTIONS

THE DEVICE USED ON THE ACTIVE DOOR SHOULD BE INSTALLED SO THAT THE STRIKE WILL DEPRESS THE DEADLOCK SUFFICIENTLY TO ALLOW FOR ANY AND ALL ALARM / ELECTRONIC FUNCTIONS. ADD SHIM (P/N 102214) AS REQUIRED. TWO PROVIDED IN KIT. THE INACTIVE DOOR SHOULD CLOSE FIRST.
Optional Accessories

**Glass Bead Kit**
Catalog No: GB2 - Glass Bead Kit, 40 series
p/n: 101644

40 Series (Narrow)

#1/4-20 x 1-1/2” Screw (4) Included

**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 No: SSK3
p/n: 101233

Security Screws

Security Pin TORX® Bits provided

**Narrow Stile Door Kit**
(Splice Kit may be used with either 3-0 or 4-0 units)
Catalog No: NSK1
p/n: 101879-1 (628 Finish, Clear)
p/n: 101189-2 (711 Finish, Black)
(includes 98 Strike)

**Double Door Strike Kit**
Catalog No: 94 (with Security screws)
p/n: 102212-1

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

**Cylinder nut socket kit**
p/n: 103779

The following Models in the series were evaluated by UL: Controlled Exit Panic Devices; Model 10 and 40. These devices may be suffixed with 01, 02, 03, 08, 09, or 14 followed by C, CN, D, DN, DT, DNT, DU, DNU, P, PN, W or WS, followed by BP1, BP2, BP3, BP5, BP6, 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 98 or 99, followed by 36 or 48.