INSTALLATION INSTRUCTIONS FOR DETEX ADVANTEX® RIM 10/40 SERIES, F10/F40 SERIES AND "H" MODELS (HURRICANE)

Mortise cylinder not included with device. Standard Yale type cam required.

* Note: Parts listed above will vary according to product configuration.

See Optional Accessories For:
- Glass Bead Kit
- Sex Nuts
- Tamper Kit
- Double Door Strike Kit
- Key Stop Kit

Detex Corporation, 302 Detex Drive, New Braunfels, Texas 78130-3045
(830)629-2900 / 1-800-729-3839 / Fax (830)620-6711
E-MAIL: detex@detex.com INTERNET: www.detex.com

U.S. PATENT NUMBERS:
6009732
6205825B1
6532777B2
INTERNATIONAL PATENT NUMBER:
PCT6009732
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.
Fastener Table

<table>
<thead>
<tr>
<th>Machine Screws</th>
<th>Drill Bit</th>
<th>Tap Wrench</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>#6-32 x 5/8&quot;</td>
<td>PPH</td>
<td>#36 or 7/64</td>
<td>#6-32 Tap</td>
</tr>
<tr>
<td>#6-32 x 3/8&quot;</td>
<td>PPH</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>#10-24 x 5/8&quot;</td>
<td>PPH</td>
<td>#25 or 9/32&quot;</td>
<td>#10-24 Tap</td>
</tr>
<tr>
<td>#1/4-20 x 1/4&quot;</td>
<td>PPH</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>#1/4-20 x 1&quot;</td>
<td>PPH</td>
<td>#7 or 13/64&quot;</td>
<td>#1/4-20 Tap</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sheetmetal Screws</th>
<th>Drill Bit</th>
<th>Tap Wrench</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>#6 x 1&quot;</td>
<td>PPH</td>
<td>9/64&quot;</td>
<td>-----</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Self-drilling Screws</th>
<th>Drill Bit</th>
<th>Tap Wrench</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>#10 x 1&quot;</td>
<td>PPH</td>
<td>NOT REQUIRED</td>
<td>-----</td>
</tr>
<tr>
<td>#14 x 1&quot;</td>
<td>PPH</td>
<td>NOT REQUIRED</td>
<td>-----</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sex Nut</th>
<th>Drill Bit</th>
<th>Tap Wrench</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1/4-20</td>
<td>9/32&quot; Interior Door Face</td>
<td>-----</td>
<td>Recommended on Fire Rated Wood and Unreinforced Hollow Metal Doors</td>
</tr>
<tr>
<td></td>
<td>3/8&quot; Exterior Door Face</td>
<td>-----</td>
<td>Used on Mounting plate and Endcap Mounting Holes</td>
</tr>
<tr>
<td>#10-32</td>
<td>13/64&quot; Interior Door Face</td>
<td>-----</td>
<td>Recommended on Fire Rated Wood and Unreinforced Hollow Metal Doors</td>
</tr>
<tr>
<td></td>
<td>5/16&quot; Exterior Door Face</td>
<td>-----</td>
<td>Used on Strike Hook Mounting Holes</td>
</tr>
</tbody>
</table>

Note: (1) Fastener selection will vary per catalog configuration and kits ordered. 
(2) Mortise Cylinder NOT Provided.

Tools Required

<table>
<thead>
<tr>
<th>Power Drill</th>
<th>Pencil</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Hack Saw</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Safety Glasses</th>
<th>Hammer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Level</th>
<th>Tape Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Screw Driver</th>
<th>Center Punch</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Slide 99 strike locator into mounting plate (see appendix C for 98 strike and strike hook installation)

RECOMMENDED
Mark centerline for unit
40 inches above finished floor

Strike holes (2)
For 1/4-20 machine screws
drill #7 holes
No pilot hole necessary
for #14 self-drilling screws
(see fastener table)

If necessary, remove label temporarily to mark trim hole

Mounting plate holes (2)
For 1/4-20 machine screws drill #7 holes.
For #14 self-drilling screws no pilot holes necessary.
For sex nuts drill 3/8" holes.
(see fastener table)

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

Mounting plate Hole
Mark mounting plate and strike holes

Punch marked holes

Fasten tightly with lockwashers and 1/4-20x1" machine screws or #14 self-drilling screws

Fasten loosely with two 1/4-20x1" machine screws or #14 self-drilling screws
Position cam as shown:

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

Fasten rim device to mounting plate with 1/4-20 x 1/4" PPH machine screws.

MUST BE INSTALLED!
CHECKING FOR DEVICE CLEARANCE
(Cut-Off procedure if required)

Slide endcap assembly onto extrusion

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

1. Secure with tape
2. Protect wires during cutting
3. Cut fillerplate & extrusion to desired length

CAUTION: * For maximum cut down, electronics may extend beyond edge of cut fillerplate.

Procedures for Maximum Cut Down Lengths
Caution Required-Special Handling
(Call factory at (800) 729-3839 for assistance)

1. REMOVE electronics prior to cut down
2. Align fillerplate FLUSH to extrusion prior to cutting
3. Protect wires during cutting
4. Install battery in endcap and connect.

For maximum cut down, this portion of center tab may be cut off

NOTE:
* For additional cut down lengths, call factory at (800) 729-3839 for assistance.

Standard Cut-Off*

<table>
<thead>
<tr>
<th>Type</th>
<th>36&quot; Unit</th>
<th>48&quot; Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrified Model</td>
<td>2 in</td>
<td>3 in</td>
</tr>
<tr>
<td>HD/CD</td>
<td>4-3/4 in</td>
<td>10-3/4 in</td>
</tr>
<tr>
<td>LD</td>
<td>6-1/2 in</td>
<td>12-1/2 in</td>
</tr>
</tbody>
</table>

NOTE:
* For additional cut down lengths, call factory at (800) 729-3839 for assistance.

Max Cut-Off

<table>
<thead>
<tr>
<th>Type</th>
<th>36&quot; Unit</th>
<th>48&quot; Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrified Model</td>
<td>3 in</td>
<td>9 in</td>
</tr>
<tr>
<td>HD/CD</td>
<td>5-1/2 in</td>
<td>11-1/2 in</td>
</tr>
<tr>
<td>LD</td>
<td>6 1/2 in</td>
<td>12 1/2 in</td>
</tr>
</tbody>
</table>

NOTE:
* For additional cut down lengths, call factory at (800) 729-3839 for assistance.
Follow steps "a" through "e" for both CD and EA cylinder installations

a. Remove endcap and endcap mounting bracket.
b. Remove fillerplate. **Caution: EA models have electronic components susceptible to damage.**
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. **Caution: The key should easily turn in both directions.**

**CD installation**

f. Rotate key counterclockwise
g. Assembly complete. Continue with Panic Hardware instruction.
Slide endcap bracket into extrusion, level pushpad assembly, and mark (2) holes.

**Note:** Endcap bracket must bottom-out on extrusion before marking holes.

For 1/4-20 machine screws drill #7 holes. For #14 self-drilling screws no pilot holes necessary. For sex bolts drill 3/8" holes.

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

**Note:** Check device function and strike engagement BEFORE marking and drilling for center screw.

Install (2) 10-32 FH Screws to attach Endcap

Slide and mount endcap to endcap bracket

Install cover with 6-32 machine screws. Tighten with hand tools only.

MANDITORY FOR HURRICANE MODELS

Fasten rim device to mounting plate and door with 1/4-20x1" machine screws or #14 self-drilling screws.

Mark and drill center hole. 9/64" for 10-24 machine screws. (see fastener table) No pilot hole necessary for #10 self-drilling screw.

Secure the 99 strike.

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

Switch selections must be made before applying power or installing battery (See Figure 1)

Table 1

<table>
<thead>
<tr>
<th>Status Indicator</th>
<th>Status Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off *</td>
<td>The Device gives no indication of armed or disarmed status.</td>
</tr>
<tr>
<td>On</td>
<td>The Device flashes red or green LED every 15 seconds.</td>
</tr>
<tr>
<td></td>
<td>Red indicates armed status and green indicates disarmed.</td>
</tr>
</tbody>
</table>

Table 2

<table>
<thead>
<tr>
<th>Disable Low Battery</th>
<th>Auto Rearming Feature Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>On *</td>
<td>Alarm sounds until turned off with key. Extended bypass is enabled.</td>
</tr>
<tr>
<td>Off</td>
<td>Unit sounds alarm for 2 minutes after bar is released. Alarm will automatically rearm after 2 minutes.</td>
</tr>
</tbody>
</table>

Table 3

<table>
<thead>
<tr>
<th>Disable Low Battery</th>
<th>Status Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off *</td>
<td>The device flashes one red LED and one beep about every 45 seconds</td>
</tr>
<tr>
<td>On</td>
<td>The device gives no indication of battery being low.</td>
</tr>
</tbody>
</table>

* Factory default settings:
  STATUS INDICATOR switch set to "OFF"
  Disable AUTO REARM switch set to "ON"
  Dis Lo Bat switch set to "OFF"

(EA shown)

Figure 2
EA wiring detail

Battery Connector (Standard)

12V AC/DC External Supply (24V AC/DC Optional)

Bypass/Remote Signal (Optional)

Protect wires to avoid pinching

Table 4 (P1 wire usage)

<table>
<thead>
<tr>
<th>Remote Signal</th>
<th>Remote Bypass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brown</td>
<td>Pin 4 Violet N.O. contact</td>
</tr>
<tr>
<td>Yellow</td>
<td>Pin 5 Violet N.O. contact</td>
</tr>
<tr>
<td>Green</td>
<td>Pin 6 ---- N.O. contact</td>
</tr>
</tbody>
</table>

Contacts rated at 1.0A @ 30VDC or 0.5A @ 125VAC
HARDWIRE TRANSFER DETAIL
(Requirements: Minimum 6 Conductor Wires, Maximum 12 Conductor Wires)

Electric Hinge
p/n: EWH8-X

Power Transfer
p/n: PT-5

Flex Conduit/End Cap Kit
p/n: FCA
(Order FCA x Finish)

Note: For high traffic areas an electric through-wire hinge or power transfer is recommended.
ALARM OPERATIONS

Note: Unit is shipped with Disable Auto Rearm turned ON and Status Indicator turned OFF
Refer to tables 1, 2 & 3 on page 9

**SPECIAL NOTES and DEFINITIONS**
1. When operating the ON/OFF switch, there is a slight delay.
2. The key is inserted and removed only in the horizontal position (home position).
3. Key function: counter clockwise (CCW) = Armed; clockwise (CW) = Disarmed
4. The power needs to be removed to register changes in the slide switches.
   a. Status Indicator (This will affect battery life)
   b. Disable Auto Rearm
   c. Dis Lo Bat INDicator (EH units only)

**UNIT ARMING TEST:**
1. Turn key counterclockwise (CCW) (key is removable after rotating back to horizontal position)
2. Red LED will flash twice, then green LED will illuminate for the 15 second delay time, then turn off.
   The siren will sound three short beeps indicating the unit is armed.
3. Depress Pushpad (Siren will sound and red LED will illuminate)
4. Turn key clockwise (CW). Turns alarm off.

**LOW BATTERY ALERT:**
1. Siren will beep and red LED will blink at approximately 45 second intervals when battery is low

**DOGGING FEATURE:** (non-fire rated units only)
1. Depress Pushpad
2. While holding Pushpad depressed, turn key clockwise (CW). Pushpad should remain depressed
   (Key is removable after rotating back to horizontal position)
3. Unit is now disarmed.

**STATUS INDICATOR**
1. Slide the switch to ON and apply power.
2. If the unit is armed, the red LED will blink every 15 seconds.
3. If the unit is disarmed, the green LED will blink every 15 seconds.

**Disable AUTO REARM (Off)**
1. When the unit is in full alarm and the bar is released, the alarm will shut off after 2 minutes.

**Care and Maintenance:**
The Detex Advantex® devices are designed to provide many years of maintenance
free service under normal usage. Periodically inspect and lubricate the unit to
extend its life.
### Advantex EA Troubleshooting Tips for Default Settings

<table>
<thead>
<tr>
<th>Problem</th>
<th>Probable Cause</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>When unit is armed, red LED flashes twice, green LED is on for 15</td>
<td>The actuator is sticking to the microswitch.</td>
<td>Call Detex. 1-800-729-3839</td>
</tr>
<tr>
<td>seconds, but the unit does not give three beeps after the green LED</td>
<td></td>
<td></td>
</tr>
<tr>
<td>goes off.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No LED activity when key is turned ccw to armed position.</td>
<td>Dead or weak battery</td>
<td>Install new battery, LED's should flash and the siren beep once.</td>
</tr>
<tr>
<td></td>
<td>Battery not secured to connector correctly.</td>
<td>Secure battery correctly.</td>
</tr>
<tr>
<td></td>
<td>No AC power.</td>
<td>Call Detex. 1-800-729-3839</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Verify power from transformer and check for correct voltage at connector P2.</td>
</tr>
<tr>
<td>AC powered unit gives a low battery indication</td>
<td>Battery not installed.</td>
<td>Install battery. If battery is not desired, disconnect power and slide the 'Dis Lo Bat IND' switch to 'ON' position.</td>
</tr>
<tr>
<td>LED's do not flash to indicate armed or disarmed status</td>
<td>Status indicator switch in off position.</td>
<td>Remove power from unit. Slide 'Status indicator' switch to 'ON' position. Reinstall power.</td>
</tr>
</tbody>
</table>

**Technical Support 1-800-729-3839**
98 STRIKE INSTALLATION

Mark and drill holes as necessary.
#7 for 1/4-20 machine screws,
For #14 self-drilling screws, no pilot
hole necessary.
7/64" for 6-32 machine screws,
9/64" for #6 sheetmetal screws
(see fastener table)

STRIKE HOOK INSTALLATION
(Caution: This installation is required on fire rated door openings with removable mullion.)

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

<table>
<thead>
<tr>
<th>DRILL CHART</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-24 Machine screw #25 or 9/64&quot; tap 10-24</td>
</tr>
</tbody>
</table>
Narrow Stile Endcap Mounting Plate
Fascia
(For use on Glass Doors)

Figure B
Figure 2
EA wiring detail

a. Remove the endcap mounting bracket.

b. Attach the fascia with the adhesive tape as shown in Figure B.

c. Re-attach the endcap mounting bracket.
Optional Accessories

Glass Bead Kit
Catalog No: GB1 - Glass Bead Kit, 10 series
p/n: 101643
Catalog No: GB2 - Glass Bead Kit, 40 series
p/n: 101644

Sex Nut
The #10-32 kit is available in (4) finishes:
- Catalog No: SN2 Brushed Brass BHMA 606 Finish
- Catalog No: SN2 Oil Rubbed Bronze BHMA 613 Finish
- Catalog No: SN2 Brushed Chrome BHMA 626 Finish
- Catalog No: SN2 Stainless Steel BHMA 630 Finish
p/n: 101617-X

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

Double Door Strike Kit
Catalog No: 94 Security screws
p/n: 102212-1
Catalog No: 95 - Standard screws
p/n: 102212-2

Key Stop Kit
(Momentary Shunt)
Catalog No: KS
p/n: 101867
Dogging Lever Assembly
(shown for reference ONLY)

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, BP4, BP5, or BP6 followed by 605, 606, 611, 612, 613, 625, 626, 628, 629, 630, 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, or 711 followed by 98 or 99, followed by 36 or 48.