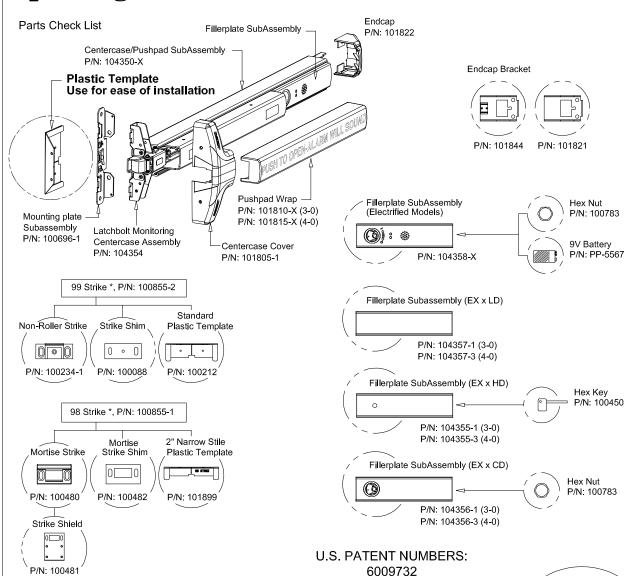


Detex Corporation, 302 Detex Drive, New Braunfels, Texas 78130-3045 (830)629-2900 / 1-800-729-3839 / Fax (830)620-6711 E-MAIL: detex@detex.com INTERNET: www.detex.com

INSTALLATION INSTRUCTIONS FOR DETEX VALUE SERIES® V40 RIM PANIC HARDWARE, FV40 RIM FIRE EXIT HARDWARE AND "H" MODELS (HURRICANE)

# FV40 / V40 x EB, EH, EHxR, EX

## L9 = Less 9v Battery SI = Status Indicator "ON"



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

\*Narrow Stile "NS" option

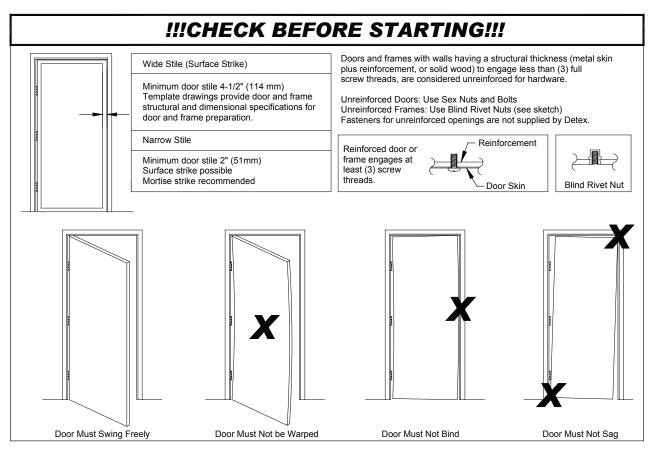
Mortise cylinder not included with device. Standard Yale type cam required.

6205825B1 6532777B2 INTERNATIONAL PATENT NUMBER: PCT6009732

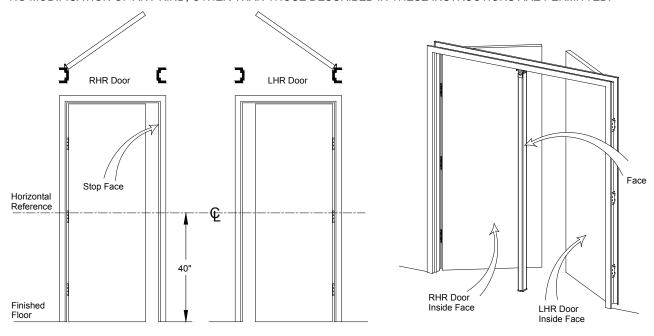
Owner's Copy

See Optional Accessories

- For: - Glass Bead Kit
- Sex Nuts
- Tamper Kit
- Double Door Strike Kit
- Key Stop Kit
- Narrow Stile Kit



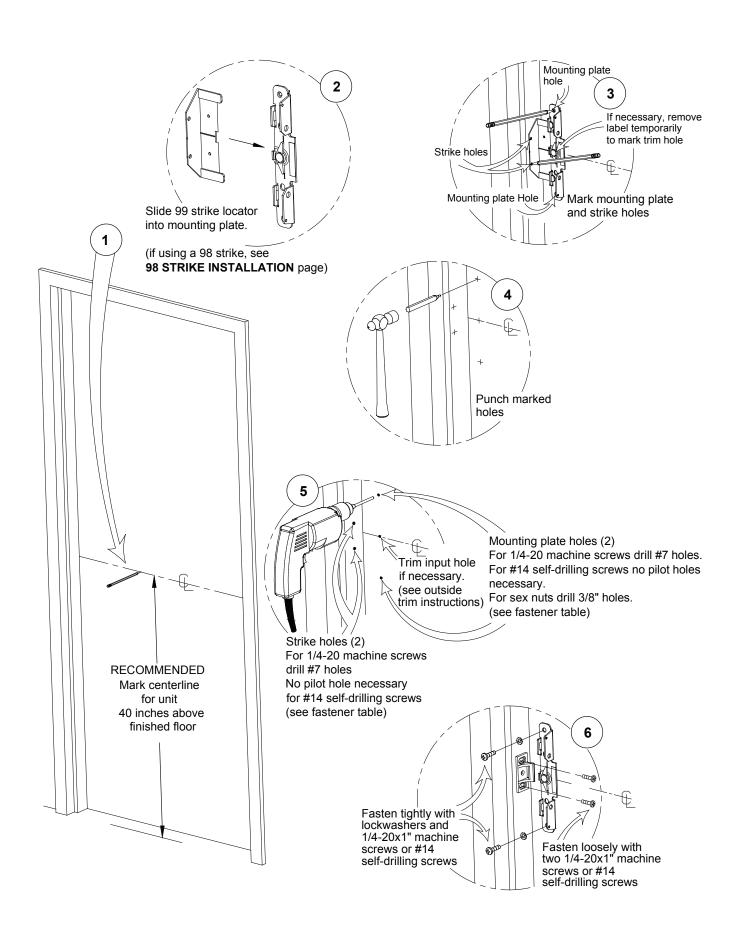
NOTE: 750mm MAXIMUM DOOR WIDTH OPENING FOR EUROPE FOR 36" DEVICE (1000mm MAXIMUM DOOR WIDTH OPENING FOR EUROPE FOR 48" DEVICE)
THE SAFETY FEATURES OF THIS PRODUCT ARE ESSENTIAL TO ITS COMPLIANCE WITH EN 1125.
NO MODIFICATION OF ANY KIND, OTHER THAN THOSE DESCRIBED IN THESE INSTRUCTIONS ARE PERMITTED.

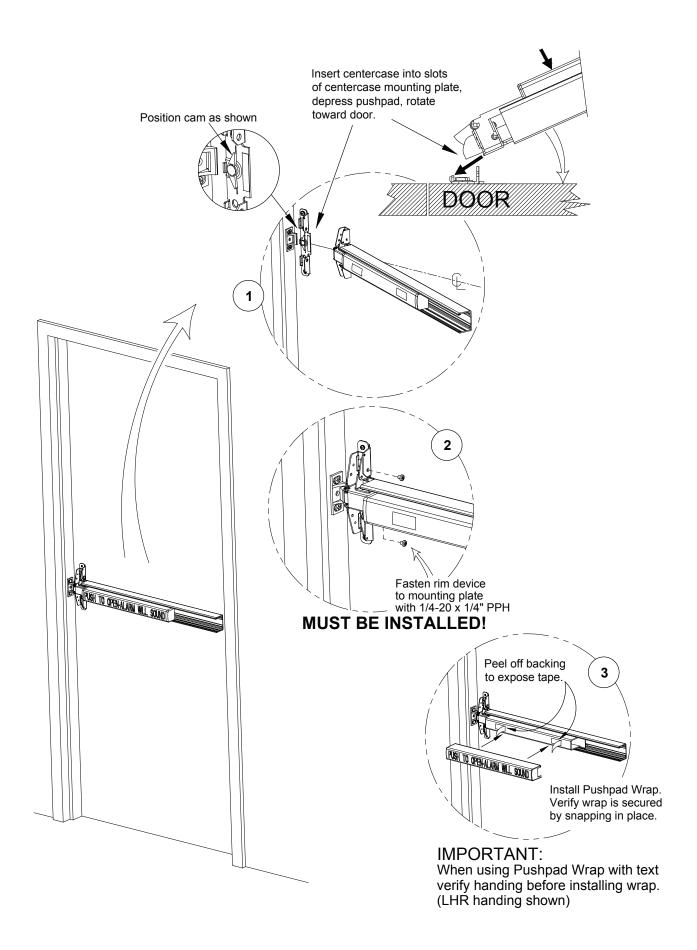


| Fastener Table                           |                |     |   |             |   |  |  |
|--|----------------|-----|---|-------------|---|--|--|
| DETEX®                                   |                |     | Drill Bit   | Tap Wrench  | Comments  |  |  |
|  |                |     | (IIIIIII)   |             | Use Either Machine Screws, Sheetmetal Screws, or Sex Nuts   |  |  |
| Machine Screws                           | #6-32 x 5/8"   | PFH | #36 or 7/64   | #6-32 Tap   | Used on 98 Strike Shield Mounting Holes   |  |  |
| ļ .                                      | #6-32 x 3/8"   | PFH |   |             | Used to Mount Centercase Cover and Endcap   |  |  |
|  | #10-24 x 5/8"  | PFH | #25 or 9/64"  | #10-24 Tap  | Used on 99 Strike Center Mounting Hole  |  |  |
|  | #1/4-20 x 1/4" | PPH |   |             | Used to Fasten Centercase Unit onto Mounting plate  |  |  |
| J. J | #1/4-20 x 1"   | PPH | #7 or 13/64"  | #1/4-20 Tap | Used on Strike, Mounting plate, and Endcap Mounting Holes   |  |  |
| Sheetmetal Screws                        | #6 x 1"        | PFH | 9/64"   |             | Used on 98 Strike Shield Mounting Holes   |  |  |
| Self-drilling Screws                     | #10 x 1"       | PFH | No pilot hole necessary for                           |             | Used on 99 Strike Center Mounting Hole  |  |  |
| {\mummin \sqrt{mmm}                      | #14 x 1"       | PPH | self-drilling screws                                  |             | Metal Applications Used on Strike, Mounting plate, and Endcap Mounting Holes                                |  |  |
| Sex Nut                                  | #1/4-20        |     | 9/32" Interior Door Face                              |             | Recommended on Fire Rated Wood and Unreinforced Hollow Metal Doors  |  |  |
|  |                |     | 3/8" Exterior Door Face                               |             | Used on Mounting plate and Endcap Mounting Holes  |  |  |
|  | #10-32         |     | 13/64" Interior Door Face<br>5/16" Exterior Door Face |             | Recommended on Fire Rated Wood and<br>Unreinforced Hollow Metal Doors<br>Used on Strike Hook Mounting Holes |  |  |
|  | #10-52         |     |   |             |   |  |  |

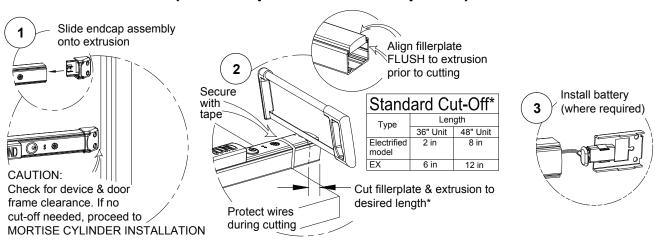
Note: (1) Fastener selection will vary per catalog configuration and kits ordered. (2) Mortise Cylinder NOT Provided.

| Tools Required |              |  |  |  |  |
|----------------|--------------|--|--|--|--|
| Power Drill    | Pencil       |  |  |  |  |
|                | Hack Saw     |  |  |  |  |
| Safety Glasses | Hammer       |  |  |  |  |
| Level          | Tape Measure |  |  |  |  |
| Screw Driver   | Center Punch |  |  |  |  |
|                |              |  |  |  |  |

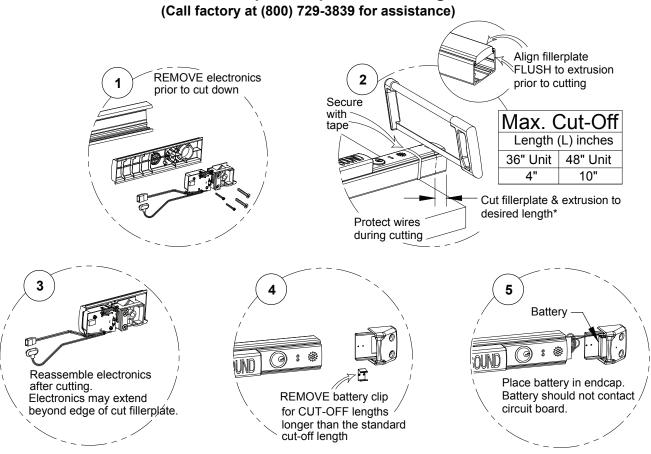




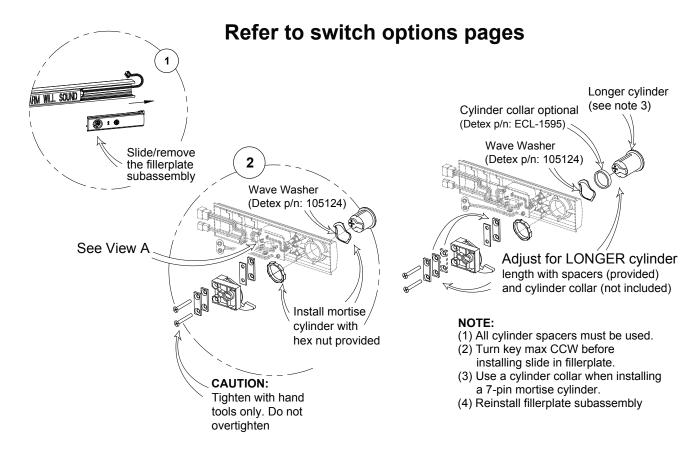
## CHECKING FOR DEVICE CLEARANCE (Cut-Off procedure if required)



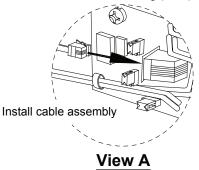
## Procedures for Maximum Cut Down Lengths Caution Required-Special Handling



#### MORTISE CYLINDER INSTALLATION

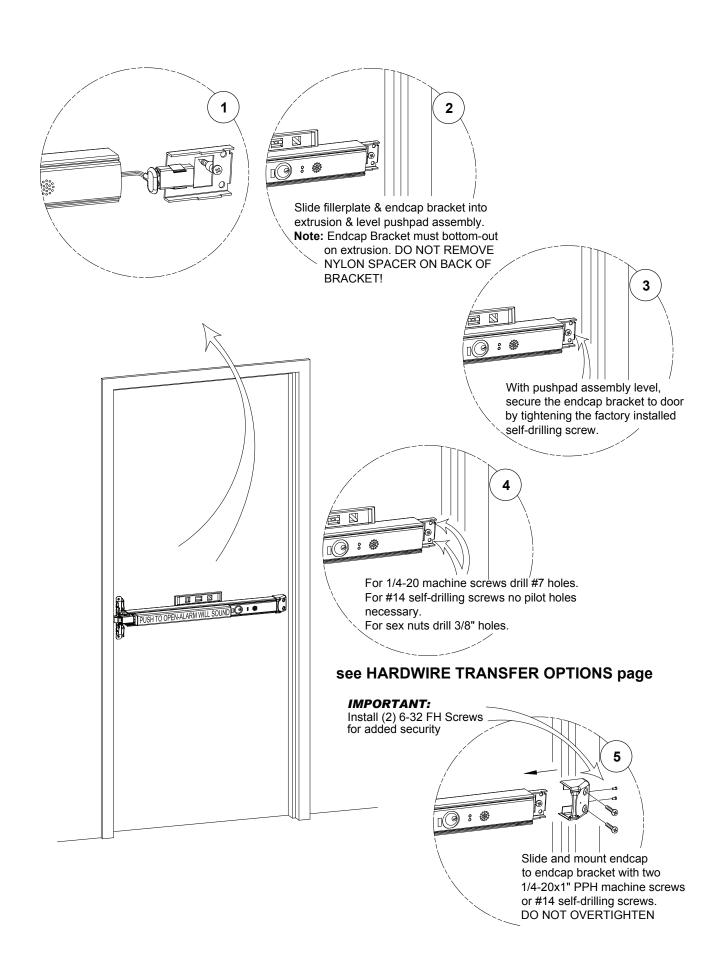


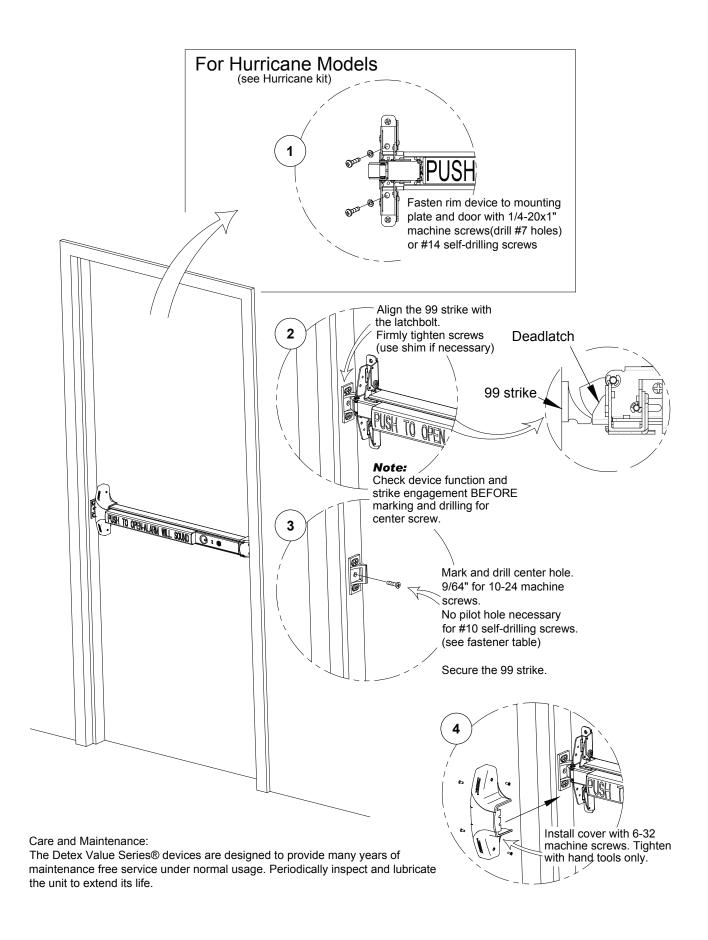




#### **PRECAUTIONARY NOTE:**

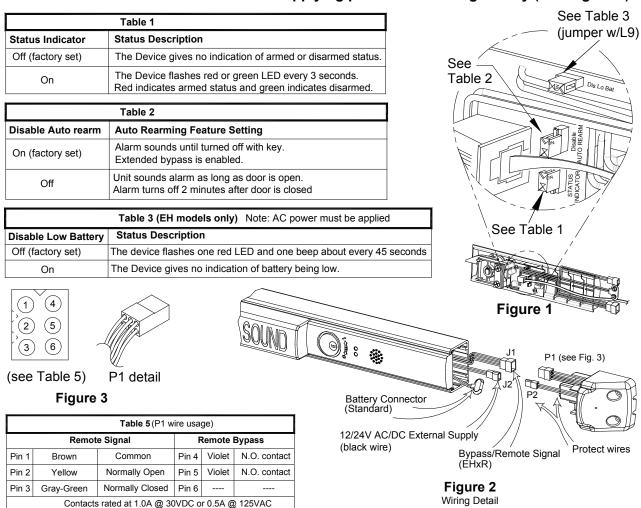
Be careful when installing fillerplate assembly not to damage cable



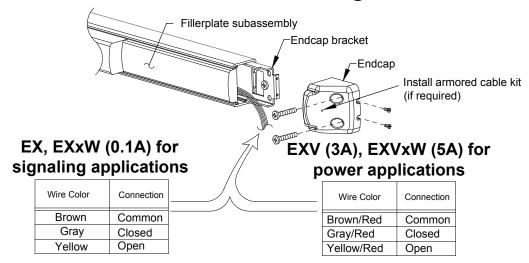


#### **SWITCH OPTIONS**

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



### V40 EX, EXxW, EXV & EXVxW Wiring Assemblies



### L9SI SWITCH OPTIONS L9 = Less 9v battery SI = Status indicator

#### Switch selections must be made before applying power.

| L9SI factory presets      |    |  |  |  |  |  |
|---------------------------|----|--|--|--|--|--|
| Status Indicator          | On | The Device flashes red or green LED every 3 seconds. |  |  |  |  |
| Disable Auto rearm On     |    | Alarm sounds until turned off with key.              |  |  |  |  |
| Disable Low Battery Jumpe |    | (No battery or leads on device)                      |  |  |  |  |

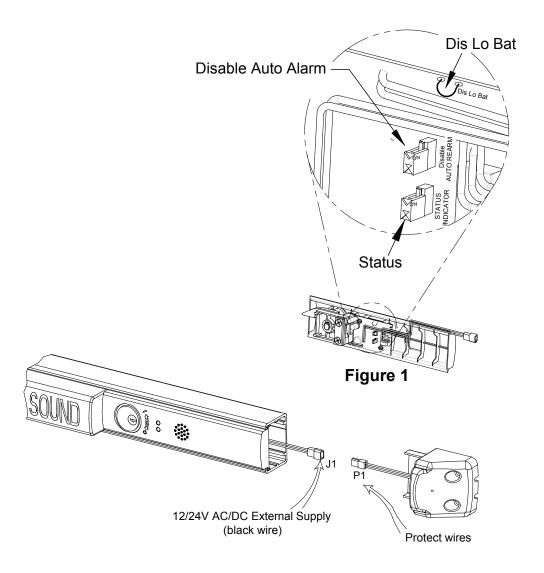
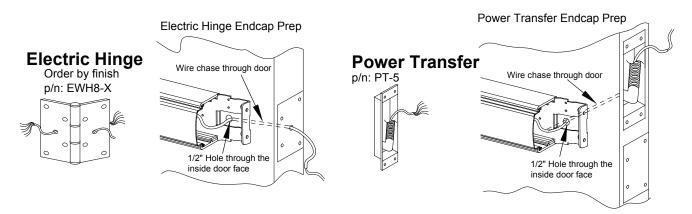


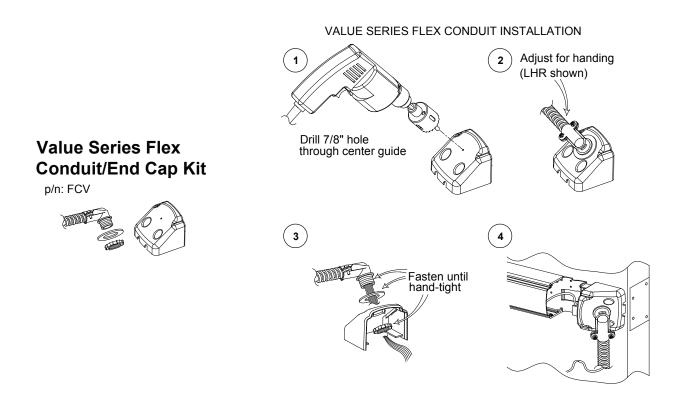
Figure 2 EH wiring detail

#### HARDWIRE TRANSFER OPTIONS

(EH and EHxR models) (Requirements: Minimum 6 Conductor Wires, Maximum 12 Conductor Wires)



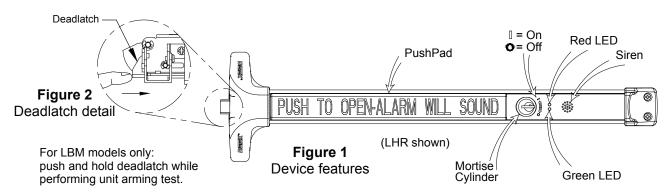
**Note:** For high traffic areas an electric through-wire hinge or power transfer is recommended.



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

#### **ALARM OPERATIONS**

#### **Refer to SWITCH OPTIONS pages**



#### **SPECIAL NOTES and DEFINITIONS**

- 1. The door needs to be closed to test the unit.
- 2. When operating the ON/OFF switch, there is a slight delay.
- 3. The key is inserted and removed only in the horizontal position (home position).
- 4. Key function: counter clockwise (CCW) = Armed; clockwise (CW) = Disarmed.
- 5. Arming delay mode and auto rearm timers vary by order.
- 6. 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 3 seconds.
- 3. If the unit is disarmed, the green LED will blink every 3 seconds.

#### **Disable AUTO REARM**

1. When the unit is in full alarm and the door closes, the alarm will shut off after 2 minutes.

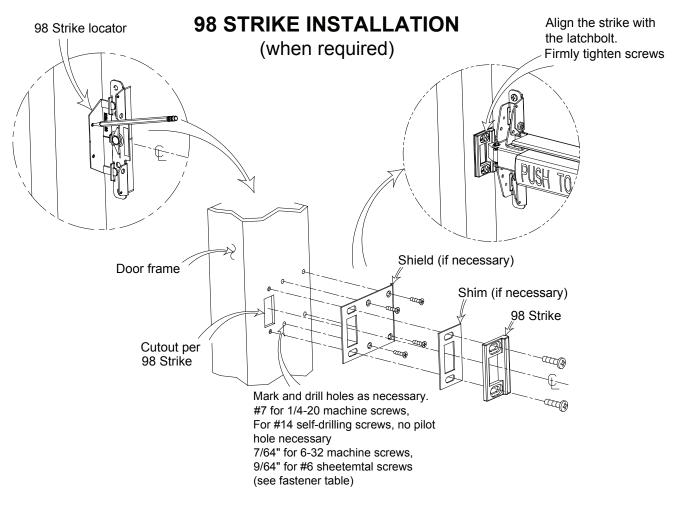
#### Care and Maintenance:

The Detex Value Series® devices are designed to provide many years of maintenance free service under normal usage. Periodically inspect and lubricate the unit to extend its life.

### V40 EB/EH and LBM Troubleshooting Tips for Default Setting

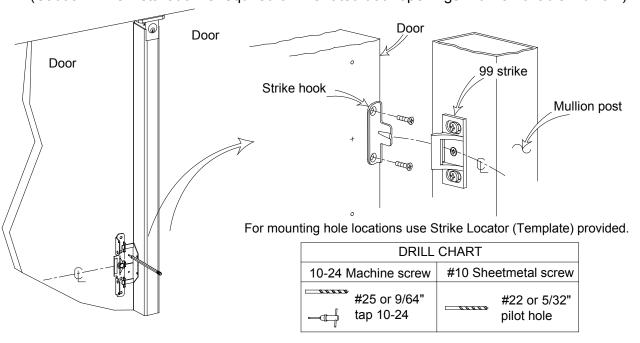
| EB/EH (Bar Monitoring) PROBLEMS  | PROBABLE CAUSE   | ACTION   |
|--|--|--|
| No LED activity when key is turned CCW to armed position   | Dead or weak battery.  | Install new battery, LED's should flash and the siren beep once.   |
|  | Battery not secured to connector correctly.                      | Secure battery correctly.  |
|  | Slide switches not in default mode.                              | Set switch to defalut and reconnect power.   |
|  | Outside trim not correctly installed.                            | Check outside trim (if applicable). See trim instructions.   |
| When the unit is armed, red LED flashes twice, green LED is on for 15 seconds, but the unit does give three beeps after the green LED goes off. The unit will not sound when opened. | Actuator is sticking to microswitch                              | Lubricate spring   |
| LED's do not flash to indicate armed or disarmed status  | Status indication switch is in off position.                     | Remove battery power from unit. Slide status indicator switch to the ON position. Reinstall battery.   |
| Give low battery alert.  | Dead or weak battery.  | Install new battery, LED's should flash and the siren beep once.   |
| LBM (Latchbolt Monitoring) PROBLEMS  | PROBABLE CAUSE   | ACTION   |
| When the unit is armed, red LED flashes twice, green LED is on for 15 seconds, but the unit does give three beeps after the green LED goes off. The unit will not sound when opened. | Dead latch not in proper position.  1/4-20 screws not installed. | Close door. Door not fully closed. Press dead latch manually as shown in Fig 2 on pg 13. If unit operates properly, check unit's backset and adjust unit or add shims to strike as needed.  See page 5, bubble #2. |
| D.W.   | L9 option ordered  | Battery connector not supplied with L9 option  |
| Battery connector missing  |  |  |

Technical Support 1-800-729-3839

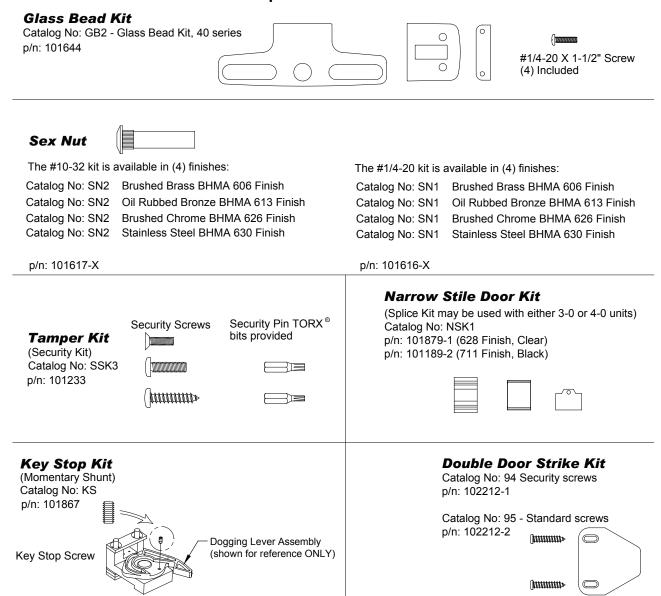


#### STRIKE HOOK INSTALLATION

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



#### **Optional Accessories**



The following Models in the series were evaluated by UL: Controlled Exit Panic Devices; Model V40. These devices may be suffixed with 01, 02, 03, 08, 09, or 14 followed by A, AN, BN, CN, DN, DNT, DNU, MN, P, PN or WS, followed by BP2 or BP8 followed by 605, 606, 611, 612, 613, 625, 626, 628, 629, 630, or 711 followed by the RHR or LHR, followed by EB, EH or EHxR, which may be followed by LD or CD, followed by 628 or 711, followed by 98 or 99, followed by 36 or 48.