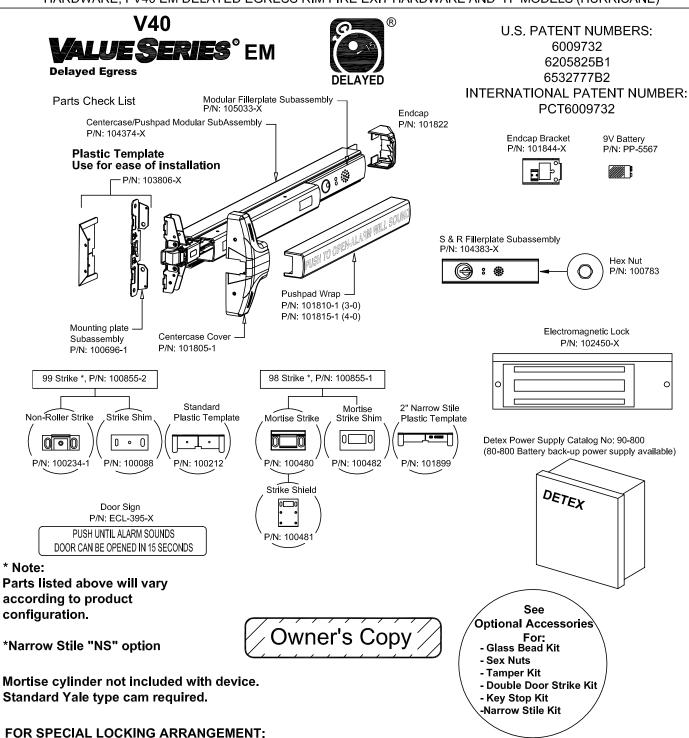
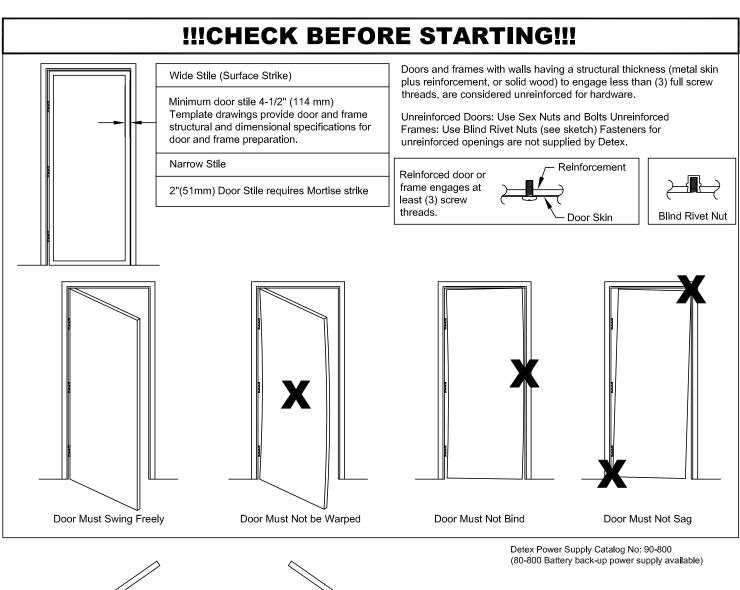


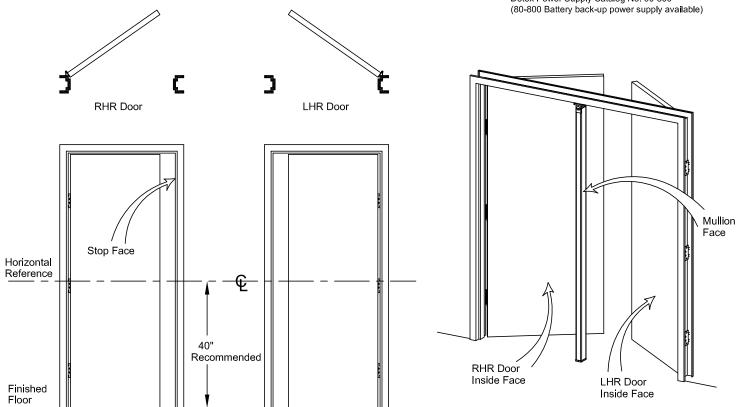
Detex Corporation, 302 Detex Drive, New Braunfels, Texas 78130-3045 (830)629-2900 / 1-800-729-3839 / Fax (830)620-6711 INTERNET: www.detex.com E-MAIL: detex@detex.com

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



THIS PRODUCT MUST BE CONNECTED INTO A FIRE ALARM SYSTEM PER NFPA CODE OR OTHER REGULATIONS SO THAT, IN THE EVENT OF FIRE, THE TIME DELAY WILL BE BYPASSED. CONTACT YOUR LOCAL CODE AUTHORITY TO VERIFY COMPLIANCE WITH FIRE AND BUILDING CODES. THE DELAYED EGRESS DEVICE SHOULD BE ROUTINELY CHECKED FOR PROPER OPERATION AND COMPLIANCE WITH FIRE AND BUILDING CODES

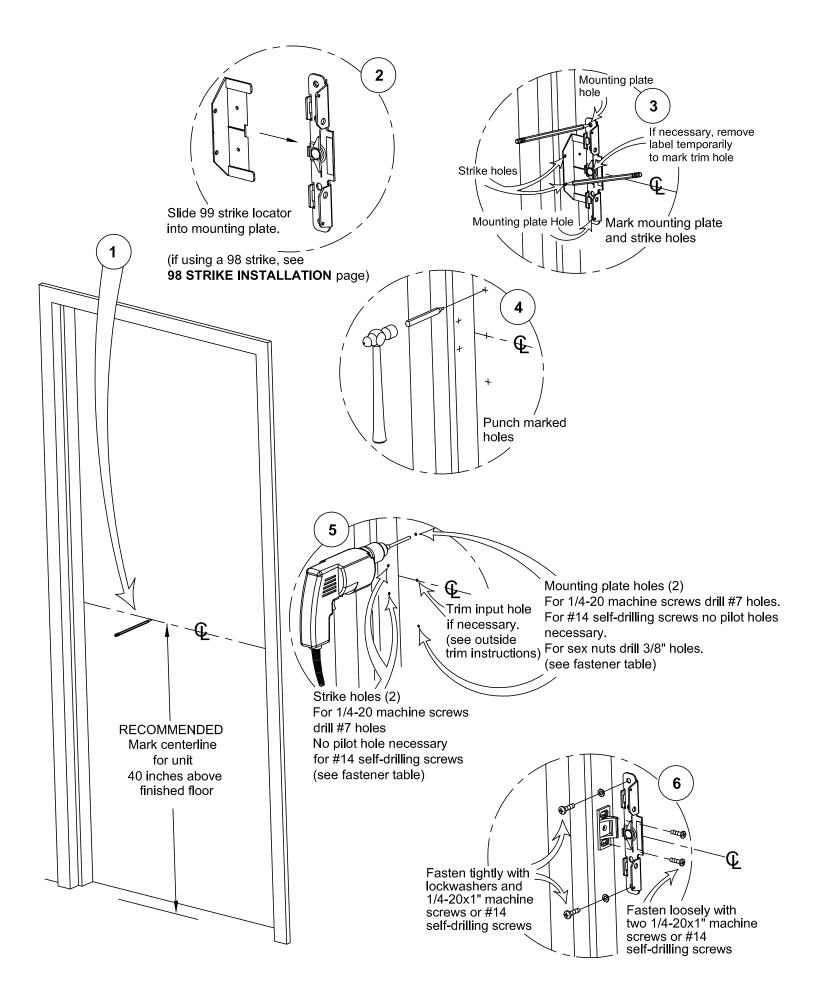


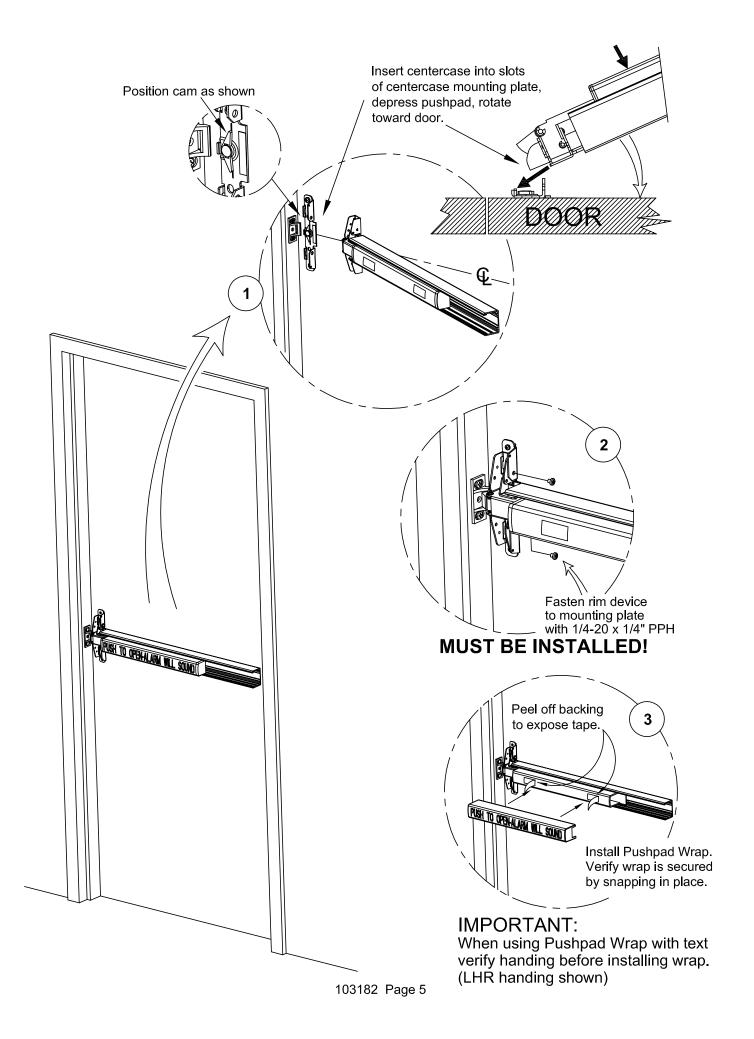


Fastener Table							
			Drill Bit	Tap Wrench	Comments		
DETEX ® GORPORATION			(IIIIII)		Use Either Machine Screws, Sheetmetal Screws, or Sex Nuts		
Machine Screws	#6-32 x 5/8"	PPH	#36 or 7/64	#6-32 Tap	Used on 98 Strike Shield Mounting Holes		
	#6-32 x 3/8"	PPH			Used to Mount Centercase Cover and Endcap		
	#10-24 x 5/8"	PPH	#25 or 9/64"	#10-24 Tap	Used on 99 Strike Center Mounting Hole		
<u> </u>	#1/4-20 x 1/4"	PPH			Used to Fasten Centercase Unit onto Mounting plate		
? Imminimimim	#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		
{mmm>	#14 x 1-1/2"	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		
	# 1/4-20		3/8" Exterior Door Face		Used on Mounting plate and Endcap Mounting Holes		
	#10-32	-	13/64" Interior Door Face 5/16" Exterior Door Face		Recommended on Fire Rated Wood and Unreinforced Hollow Metal Doors Used on Strike Hook Mounting Holes		
	# 10-02						

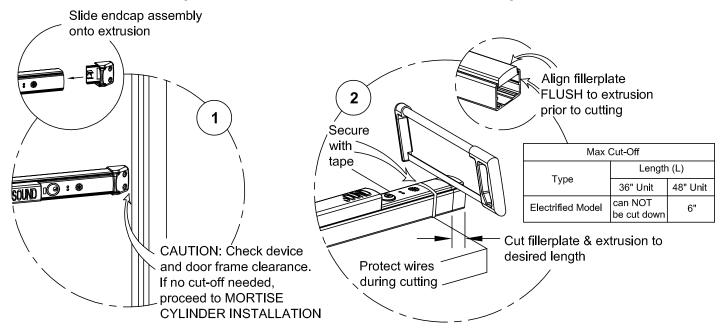
Note: (1) Fastener selection will vary per catalog configuration and kits ordered. (2) Mortise Cylinder NOT Provided.

Tools Required					
Power Drill	Pencil ••••••				
Level 🖺 🖼	Hack Saw				
Safety Glasses	Hammer				
Screw Driver	Tape Measure				
Jewelers (Small) Screwdriver	Center Punch				



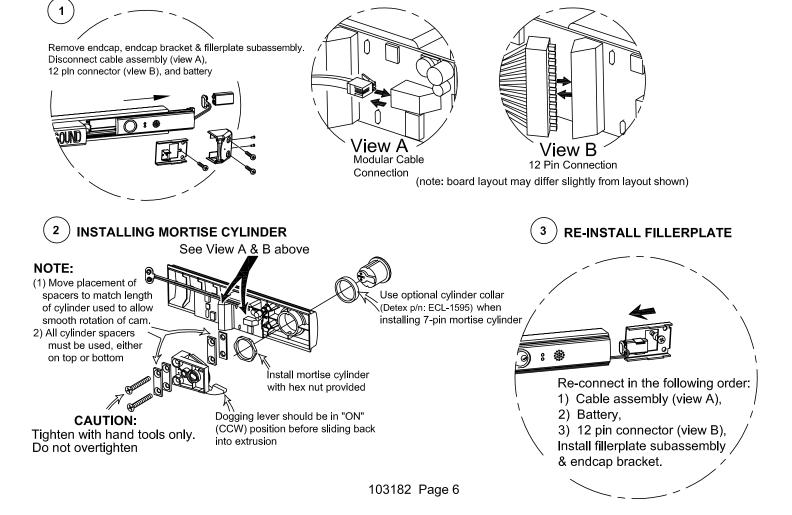


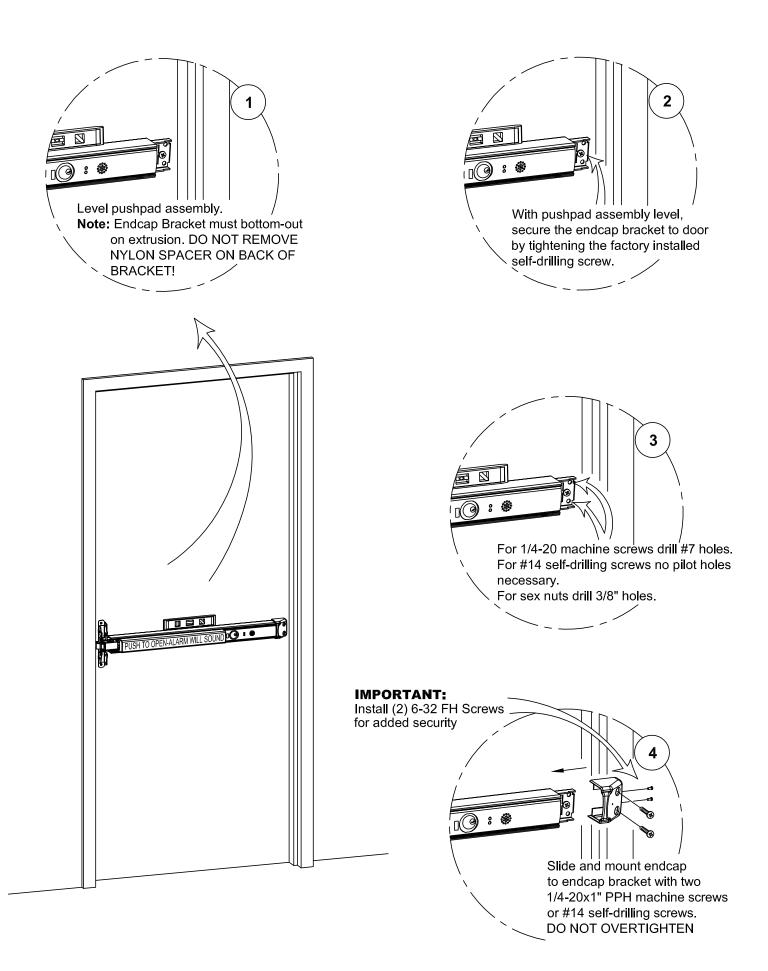
CHECKING FOR DEVICE CLEARANCE (Cut-Off procedure if required)

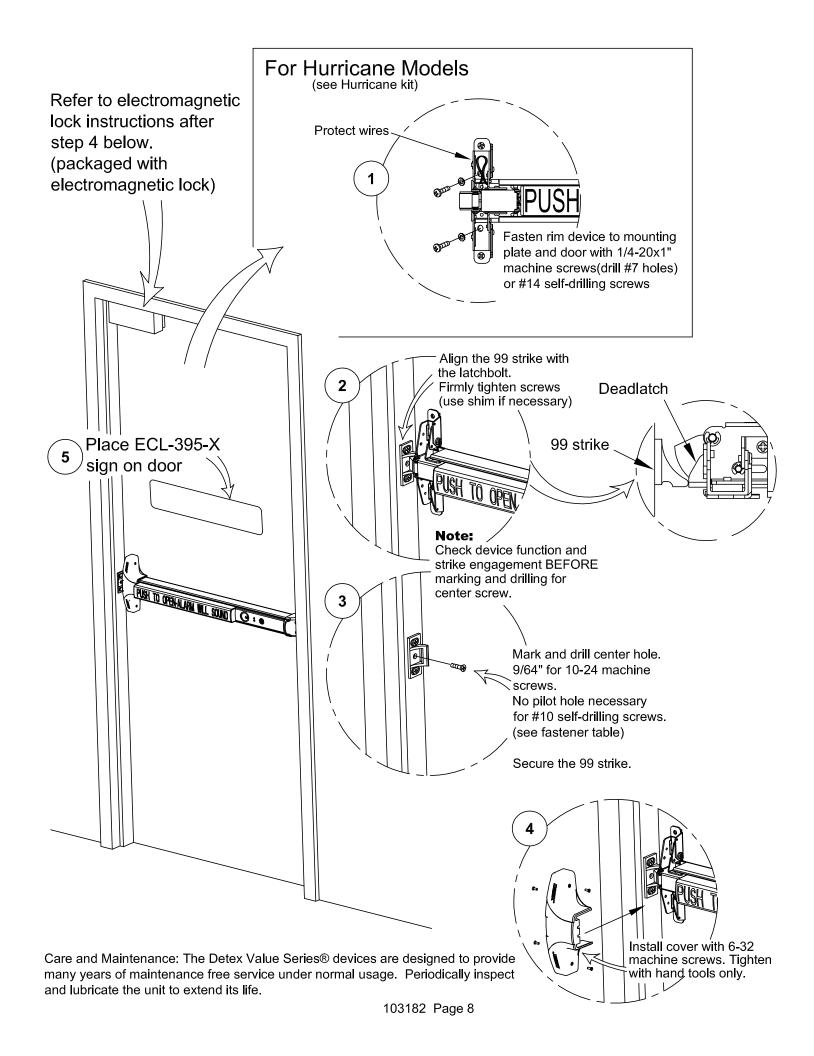


MORTISE CYLINDER INSTALLATION PRECAUTIONARY NOTE:

- 1. Be careful when installing fillerplate assembly not to damage wires.
- 2. See "EM ELECTRICAL OPTIONS" before reinstalling filler plate.







EM ELECTRICAL OPTION

REQUIRES DETEX POWER SUPPLY

REQUIRED WIRE SIZES:

STRANDED WIRE GAUGE: 18 AWG MIN

MAXIMUM LENGTH OF TWO CONDUCTOR CABLE: 40 FEET

Power Supply with Detex Delayed Egress device 8 WHITE BLACK GREEN DETEX REQUIRES THE POWER SUPPLY BE LOCATED WITHIN (MINI 0000 40 FEET OF THE DEVICE RED Detex requires one fire alarm relay per power To Exit Device supply Door #2 Closed Fire Alarm Loop Fire Loop (if req'd) (must be supplied) Sense To Exit Device Door #1 From (+) terminal-From (-) terminal to pin #1 on exit to pin #2 on exit device device RED/BLK WIRES TO 24 VOLT BLK-BLK-**RED RED FACTORY INSTALLED** JUMPER To disable the low-battery indication, slide the Dis Lo Bat switch to 'ON' Orange and Blue wires to MAGNET DO NOT ADD POWER! (PC BOARD ASSEMBLY INSIDE **DELAYED EGRESS DEVICE)** 9V Alkaline Battery

Factory installed jumper ALARM RELAY BYPASS RELAY REMOTE OUTPUT COM N.O. N.C. COM N.O. N.C POWER 1 2 3 4 5 8 11 + -COM 0 Z S 0 S 24VDC RELAY OUTPUT NORMALLY OPEN INPUT RELAY OUTPUT .5A 24V MAX WIRING DIAGRAM A

EM ELECTRICAL OPTIONS L9= Less 9V battery SI= Status Indicator

POWER REQUIREMENT: .4 AMPS @ 24 VDC

The key cylinder arming switch must be set to "OFF". To prevent the alarm from sounding during installation, attach battery AFTER main power is applied.

Delayed Egress Device requires a connection to the Fire Alarm System. The fire alarm connection needs to be made **Externally** at the Power Supply. During a fire alarm condition the delayed egress will be by-passed.

MAIN POWER CONNECTION: (1 AND 2)

See Power Supply instructions

DETEX REQUIRES USING THE FIRE ALARM CONNECTION IN THE POWER SUPPLY:

CLOSED connection is provided to the fire alarm system when not in-alarm and OPEN when in-alarm. See power supply instructions for details.

REMOTE BY-PASS: (5 & 6)

Normally open (N.O.)

When the contact is closed momentarily, the door can be opened without the alarm sounding. The unit will automatically re-arm in 15 seconds after the door is closed (three guick audible beeps).

BY-PASS RELAY: (7, 8 & 9) **Dry** contact output.

The BY-PASS relay is energized when the unit is disarmed by the KEY or REMOTE BY-PASS to indicate to a remote indicator that the door is not armed.

ALARM RELAY: (10, 11 & 12) Dry contact output.

The ALARM relay is energized when the unit is sounding its alarm to indicate to a remote indicator that an unauthorized exit has been attempted.

OUTSIDE KEY CONTROL

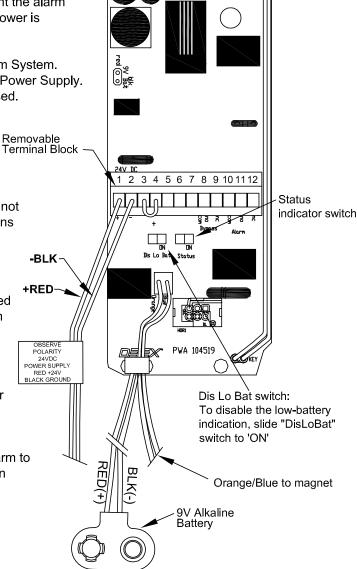
If the OKC option is used, the outside key bypasses and rearms the alarm.

STATUS INDICATOR (SLIDE SWITCH)

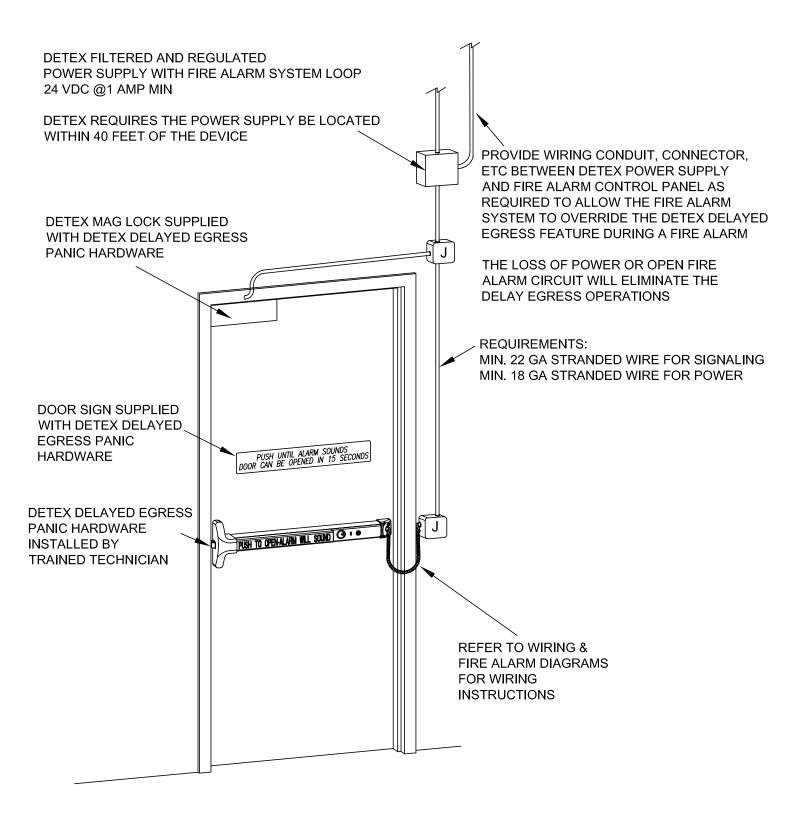
ON: Green LED blinks every three seconds when the unit is disarmed.

Red LED blinks every three seconds when the unit is armed.

OFF: No status indication



RISER DIAGRAM

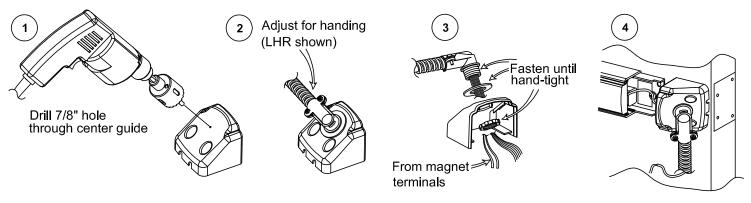


Value Series Flex Conduit/End Cap Kit (included)

p/n: FCV



VALUE SERIES FLEX CONDUIT INSTALLATION

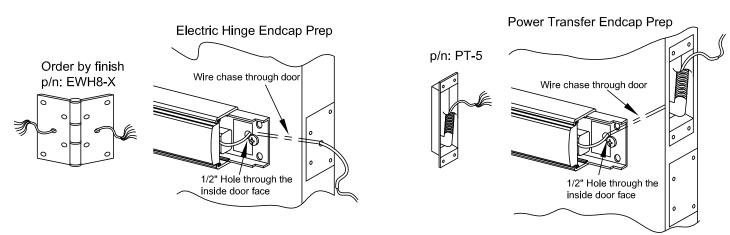


Note: For high traffic areas an electric through-wire hinge or power transfer is recommended.

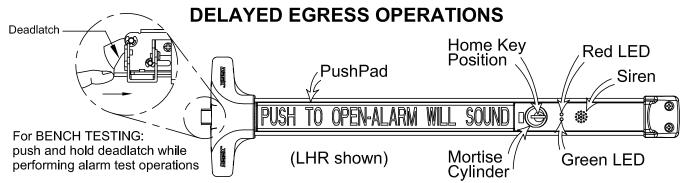
OPTIONAL HARDWIRE TRANSFER KITS

Electric Hinge

Power Transfer

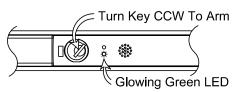


Note: For high traffic areas an electric through-wire hinge or power transfer is recommended.



ARMING AND AUTHORIZED EXIT

With door closed, insert key in the cylinder, turn CCW then back to the home key position and remove it. LED glows green. Authorized personnel can exit the door during this rearm cycle. After a 1, 5 or 15 second arming period, alarm issues three guick beeps and LED goes off, indicating that the unit is armed.

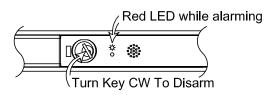


DISARMING

Insert key, turn CW to a stop. Green LED will blink twice to indicate the unit is disarmed.

EXITING UNDER ALARM

To exit, push and maintain pressure on the pushpad. LED flashes RED and alarm pulses on and off for 15 seconds. After 15 seconds, alarm issues short and long pulses to indicate that you can exit by depressing the pushpad. Alarm sounds continuously and LED is steady RED. Turn key CW to stop alarm. In case of fire, the fire alarm over-rides the 15 second delay and the door opens without delay when the pushpad is pushed.



NORMAL OPERATION

LED COLOR		SIREN SOUNDS	FUNCTION	
RED	GREEN		FUNCTION	
OFF	ON	THREE CHIRPS	Indicates the unit is in process of arming. The siren will chirp three times to indicate the unit is armed and green LED will turn off	
OFF	OFF		This indicates either armed or disarmed	
ON	ON		Factory installed jumper removed from terminals 3 & 4	
SLOW BLINKING	OFF	SLOW PULSE	Pushpad is depressed, delay to open started	
FAST BLINKING	OFF	FAST PULSE	Delay to open expired	
ON	OFF	ON	Delay to open expired, door has been opened	
DOUBLE BLINK	OFF	DOUBLE CHIRP	Low Battery - every 45 seconds	
BLINK	OFF		Armed - status ON	
OFF	BLINK		Disarmed - ON	

BATTERY BACKUP FOR ALARM

A 9-volt battery is included as a backup power source for the alarm siren if power is lost. To disable low battery indication, slide "DisLoBat" switch to 'ON'. See EM ELECTRICAL OPTIONS page.

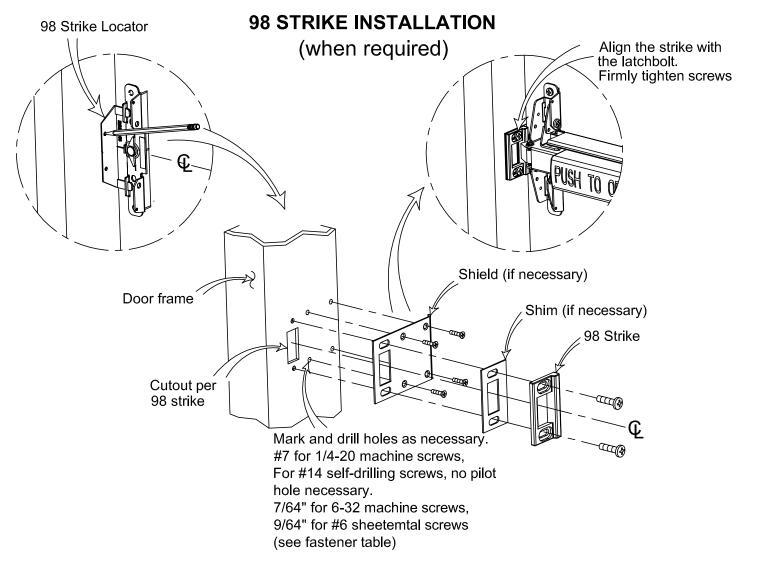
LOW BATTERY INDICATION

If battery voltage is low (7 volts or less), unit remains armed but LED flashes RED and unit beeps twice every 45 seconds. Replace battery as soon as possible.

TROUBLESHOOTING

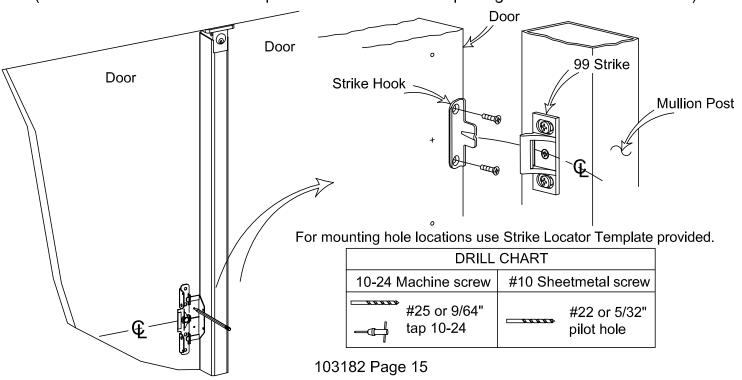
Problem Probable cause

Alarm sounds immediately when power is applied:	Make sure the key cylinder arming switch is set to 'OFF'.	
No green light when key is turned CCW:	Confirm strike is pushing in dead latch, door must be closed.	
turried GGW.	Confirm 24VDC power on the delayed egress device main board terminals 1(+) & 2(-).	
	Confirm closed fire loop connection on power supply.	
	Confirm the two black wires on the center case are plugged into the 2-pin header on the center case circuit board.	
	Confirm cable is plugged in properly.	
	Confirm the mortise cylinder is functioning correctly.	
No delayed egress:	Confirm closed fire loop connection on power supply.	
	Confirm 24VDC power on the delayed egress device main board terminals 1(+) & 2(-).	
	With the unit armed there should be (30-38VDC without load) on the orange (+) and blue (-) wires.	
	The armature plate needs to float. See mag-lock instructions.	
	The orange wire needs to be wired to terminal 1 in the mag-lock. The blue wire needs to be wired to terminal 3 in the maglock.	
Both red and green lights on:	Factory installed jumper removed from terminals 3 & 4.	
Low battery signal- Two chirps every 45 seconds:	Check battery. If no battery is needed, slide "DisLoBat" switch to on. See electrical pages of instructions.	



STRIKE HOOK INSTALLATION

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

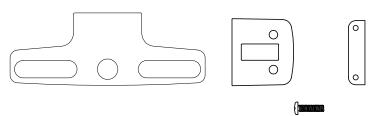


Optional Accessories

Glass Bead Kit

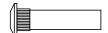
Catalog No: GB2 - Glass Bead Kit, 40 series

p/n: 101644



#1/4-20 X 1-1/2" Screw (4) Included

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 p/n: 101616-X

The #1/4-20 kit is available in (4) finishes:

Brushed Brass BHMA 606 Finish Catalog No: SN1 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

Tamper Kit

(Security Kit) Catalog No: SSK3

p/n: 101233



Security Screws



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: 101879-2 (711 Finish, Black)

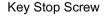


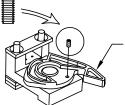




Key Stop Kit

(Momentary Shunt) Catalog No: KS p/n: 101867

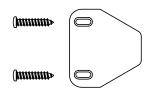




Dogging Lever Assembly (shown for reference ONLY)

Double Door Strike Kit

Catalog No: 94 p/n: 102212-1



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 EM, which may be followed by LD or CD, followed by 628 or 711, followed by 98 or 99, followed by 36 or 48.