Detex Corporation, 302 Detex Drive, New Braunfels, Texas 78130-3045
830-629-2900 / 800-729-3839 / Fax 800-653-3839 / Text photos only: 830-481-6433 / INTERNET: www.detex.com

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

Drawing: 101800
102400

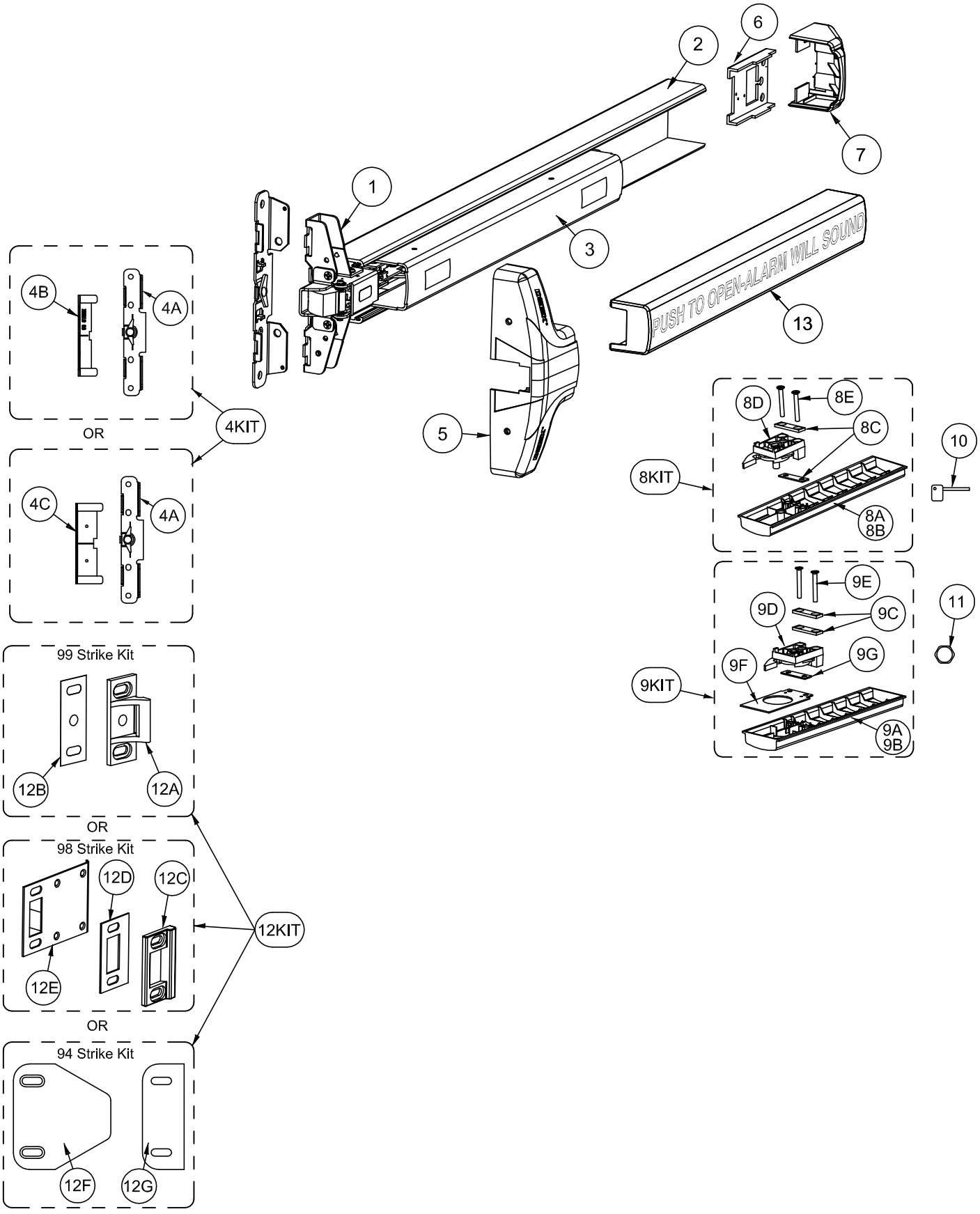
U.S. PATENT NUMBERS:
6009732
6205825B1
6532777B2
INTERNATIONAL PATENT NUMBER:
PCT6009732

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**For device installation videos, scan code below or go to detex.com**

Owner's Copy

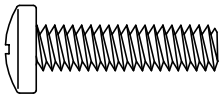
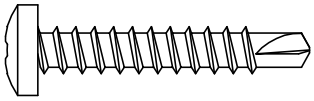
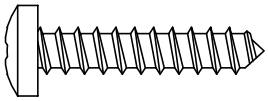

1
2
3
4A
4B
4C
4KIT
OR
5
6
7
8A
8B
8C
8D
8E
8KIT
9A
9B
9C
9D
9E
9F
9G
9KIT
10
11
13
PUSH TO OPEN-ALARM WILL SOUND
99 Strike Kit
12A
12B
OR
98 Strike Kit
12C
12D
12E
12KIT
OR
94 Strike Kit
12F
12G

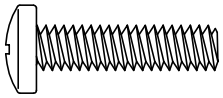
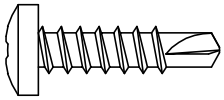
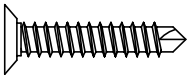
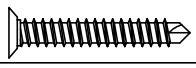
| PARTS BREAKDOWN | | |
|---|---|---|
| **Item** | **Order Part #** | **Description** |
| 1 | 100698-5 | Centercase Assembly, Narrow Stile, V40 series |
| 2 | 106281 | Baseplate Extrusion, 36", Silver |
| | 106285 | Baseplate Extrusion, 48", Silver |
| | 106289 | Baseplate Extrusion, 36", Black |
| | 106290 | Baseplate Extrusion, 48", Black |
| 3 | 103065-1 | Pushpad Subassembly, 36" |
| | 103065-2 | Pushpad Subassembly, 48" |
| 4KIT | 103806-1 | Mounting Plate/Strike Locator Kit, Narrow Stile, 98 Strike BP2 (includes 4A & 4B) |
| | 103806-2 | Mounting Plate/Strike Locator Kit, Narrow Stile, 99 Strike, BP1 (includes 4A & 4C) |
| 4A | 100696-1 | Mounting Plate, BP2, Narrow Stile |
| 4B | 101899 | Strike Locator 2" Glass Door (98) |
| 4C | 100212 | Strike Locator, Standard (99) |
| 5 | 101805-1 | Centercase Cover, V40 series |
| 6 | 101844-1 | Endcap bracket w/o battery holder |
| | 101844 | Endcap bracket w/ battery holder |
| 7 | 101822 | Endcap |
| 8KIT | 101803-1 | Fillerplate, Subassembly, S&R, Hex Dogging, HD, V40 series, 36" (includes 8A or 8B through 8E) |
| 8A | 101812-1 | Fillerplate, HD, 36" |
| 8B | 101812-2 | Fillerplate, HD, 48" |
| 8C | 100164 | Spacer, dogging bracket, .120" thick |
| 8D | 102216-4 | Die cast dogging assembly, HD |
| 8E | PP-5802-124 | Screw, mach, 10-32 x 1-1/2" PFH |
| 9KIT | 102195-1 | Fillerplate, Subassembly, S&R, Cylinder Dogging, CD, V40 series, 36" (includes 9A or 9B through 9G) |
| 9A | 102194-1 | Fillerplate, CD, 36" |
| 9B | 102194-2 | Fillerplate, CD, 48" |
| 9C | 100164 | Spacer, dogging bracket |
| 9D | 102216-3 | Die cast dogging assembly, CD |
| 9E | PP-5802-124 | Screw, mach, 10-32 x 1-1/2" PFH |
| 9F | 102196 | Bracket, fillerplate, V40, CD |
| 9G | 100938 | Spacer, dogging bracket, .060" thick |
| 10 | 100450 | Hex Key (for Hex Dogging) |
| 11 | 100783 | Cylinder Nut (for Cylinder Dogging) |
| 12KIT | 100855-2 | 99 Strike Kit (includes 12A & 12B) |
| | 100855-1 | 98 Strike Kit (includes 12C, 12D & 12E) |
| | 102212-1 | 94 Double Door Strike Kit (includes 12F & 12G) |
| 12A | 100234-1 | Strike, Non-roller |
| 12B | 100088 | Strike Shim |
| 12C | 100480 | Strike, Mortise |
| 12D | 100482 | Shim, Mortise Strike |
| 12E | 100481 | Shield, Strike |
| 12F | 102211 | Double Door Strike Plate |
| 12G | 102214 | Shim, 94 strike |
| 13 | 105417-1 | Pushpad Wrap, 36", Red (English text) |
| | 105417-2 | Pushpad Wrap, 48", Red (English text) |
| | 105417-3 | Pushpad Wrap, 36", Black |
| | 105417-4 | Pushpad Wrap, 48", Black |

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)

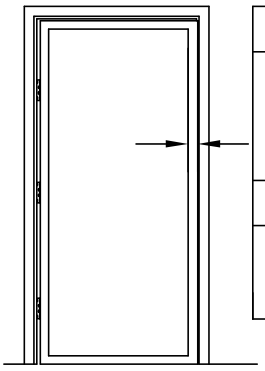
| | Fastener Part No | Drill Bit |
|---|---|---|
|  | P/N: 100980<br>1/4-20 x 1" PPH | #7 or 13/64" |
|  | P/N: 101621-5<br>1/4-20 x 1/4" PPHMS | #7 or 13/64" |
|  | P/N: 100162-106<br>6-32 x 3/8" PFHUMS | ---------- |
|  | P/N: 103276-65<br>#14 x 1-1/2" PPH self-drilling | 1/8 pilot hole recommended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

| 99 Strike Kit: p/n 100855-2 or 98 Strike Kit: p/n 100855-1 | | | |
|---|---|---|---|
|  | P/N: 100980<br>1/4-20 x 1" PPH | #7 or 13/64" | in both kits |
|  | P/N: 100112<br>10-24 x 5/8" PFHUMS | | in 99 kit only |
|  | P/N: 100162-1<br>6-32 x 5/8" PFHUMS | | in 98 kit only |
|  | P/N: 103276-63<br>#14 x 1" PPH | 1/8 pilot hole recommended for self-drilling screws | in both kits |
|  | P/N: 101277-216<br>#10 x 1" self-cutting PFHU | | in 99 kit only |
|  | P/N: 101451-1<br>#6 x 1" self-cutting PFHU | | in 98 kit only |

## 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)** |

# !!!CHECK BEFORE STARTING!!!

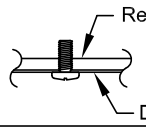


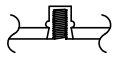
| Wide Stile (Surface Strike) |
|---|
| Minimum door stile 4-1/2" (114 mm)<br>Template drawings provide door and frame structural and dimensional specifications for door and frame preparation. |
| Narrow Stile |
| Minimum door stile 2" (51mm)<br>Surface strike possible<br>Mortise strike recommended |

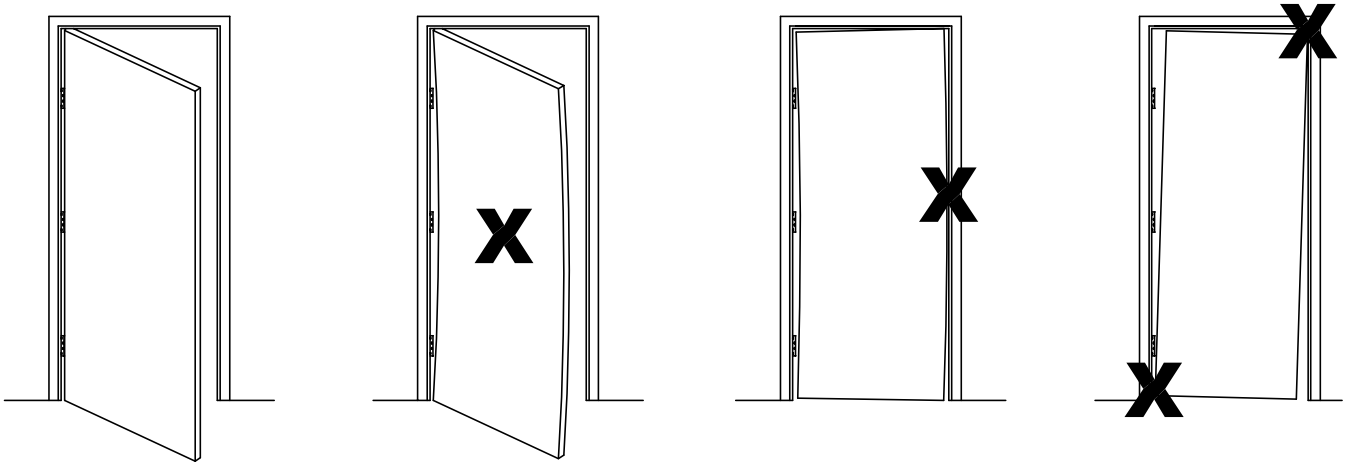
Doors and frames with walls having a structural thickness (metal skin plus reinforcement, or solid wood) to engage less than (3) full screw threads, are considered unreinforced for hardware.

Unreinforced Doors: Use Sex Nuts and Bolts
Unreinforced Frames: Use Blind Rivet Nuts (see sketch)
Fasteners for unreinforced openings are not supplied by Detex.

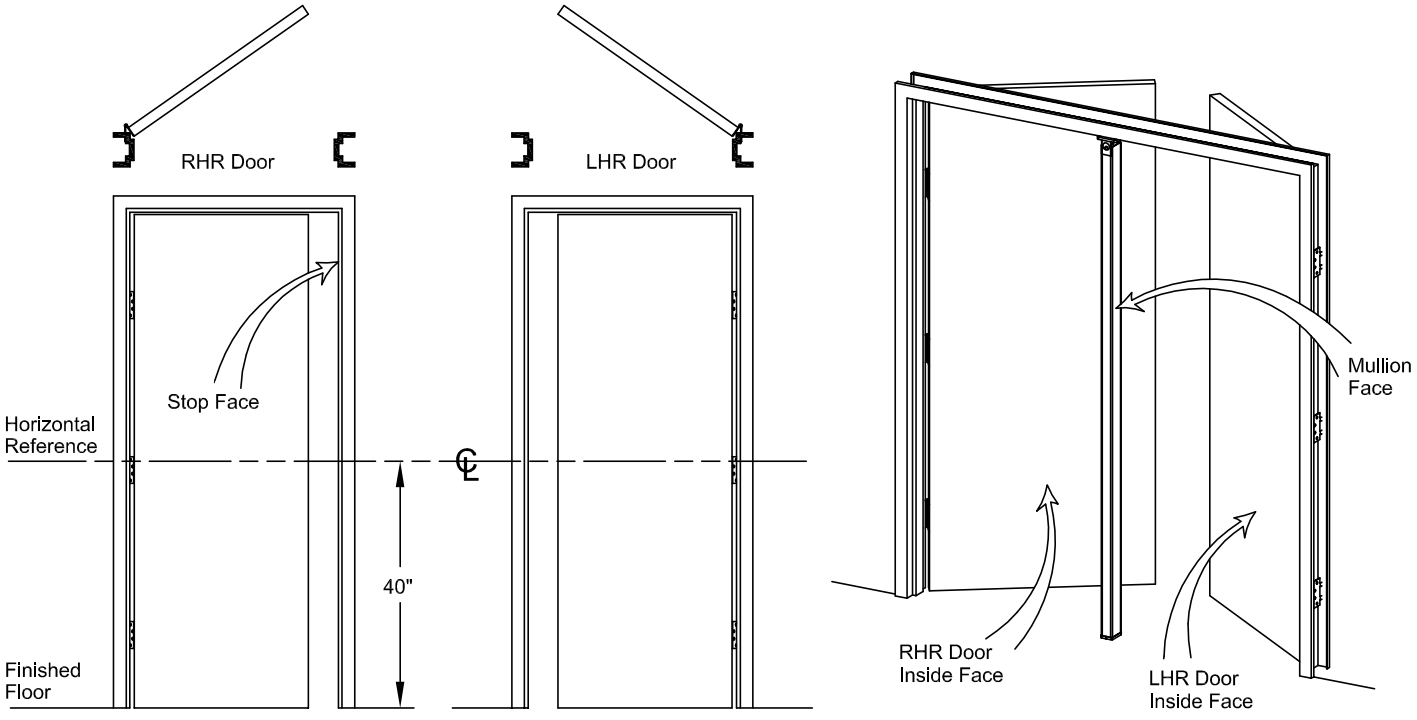
Reinforced door or frame engages at least (3) screw threads.



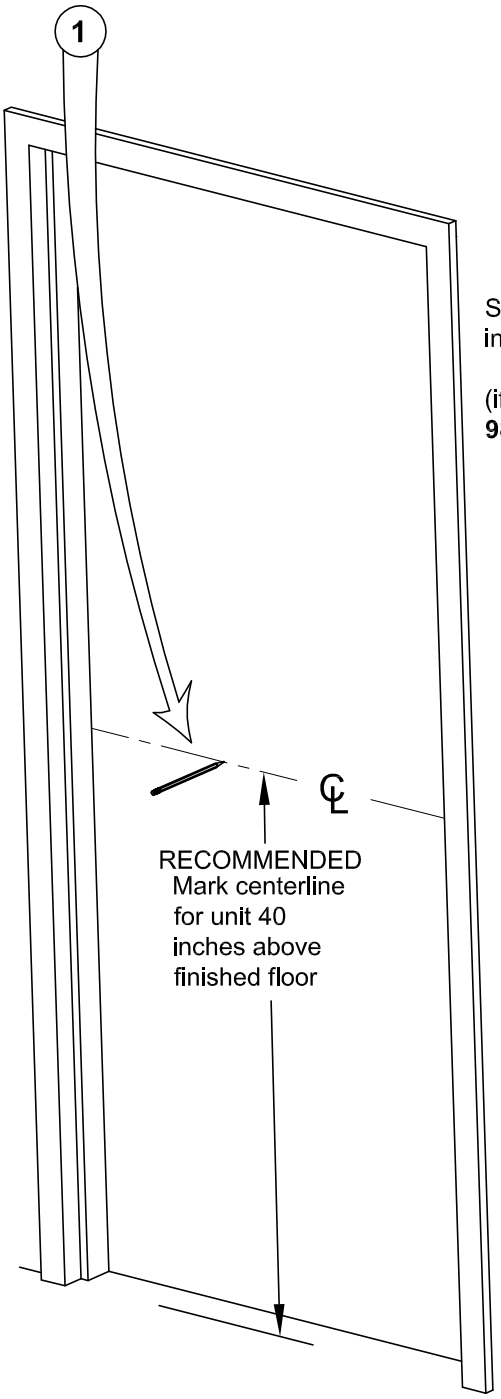


Blind Rivet Nut

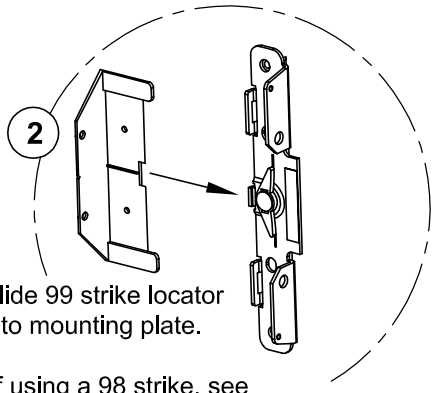


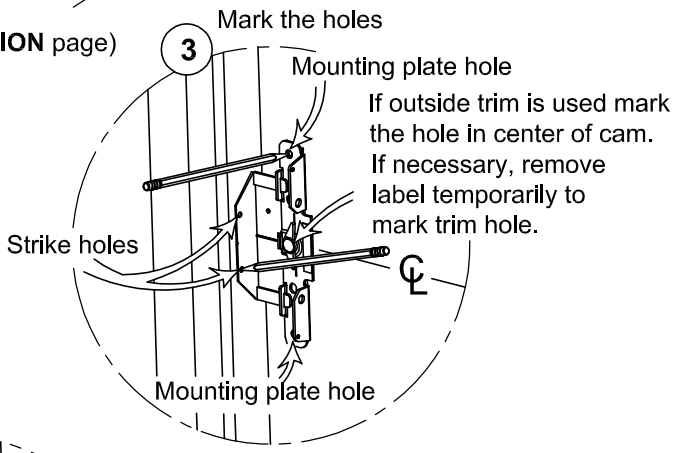

NOTE: 750mm MAXIMUM DOOR WIDTH OPENING FOR EUROPE FOR 36" DEVICE
(1000mm MAXIMUM DOOR WIDTH OPENING FOR EUROPE FOR 48" DEVICE)
THE SAFETY FEATURES OF THIS PRODUCT ARE ESSENTIAL TO ITS COMPLIANCE WITH EN 1125.
NO MODIFICATION OF ANY KIND, OTHER THAN THOSE DESCRIBED IN THESE INSTRUCTIONS ARE PERMITTED.

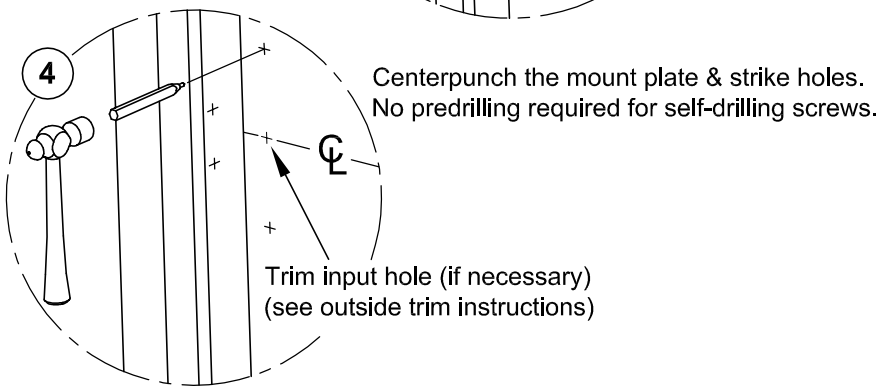


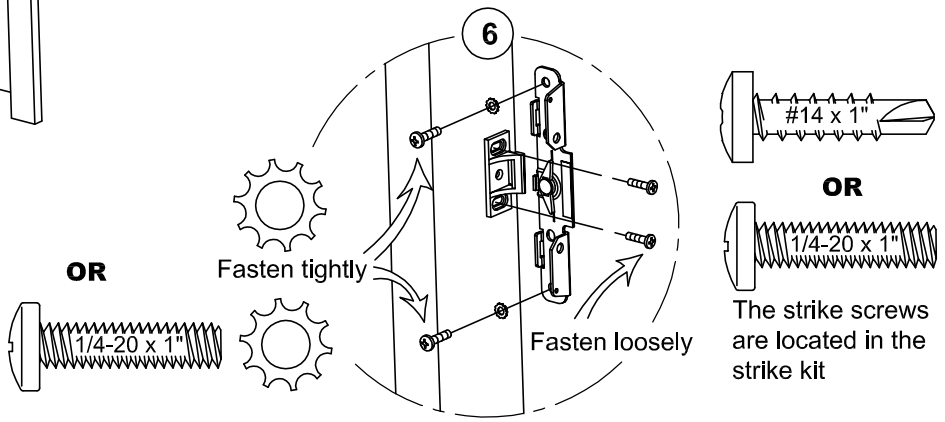
## MOUNTING PLATE & STRIKE INSTALLATION:



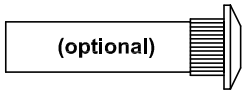



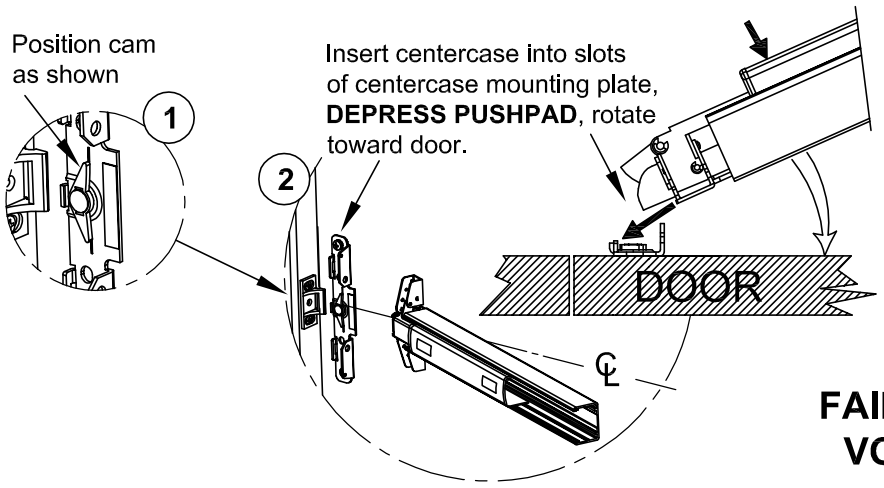



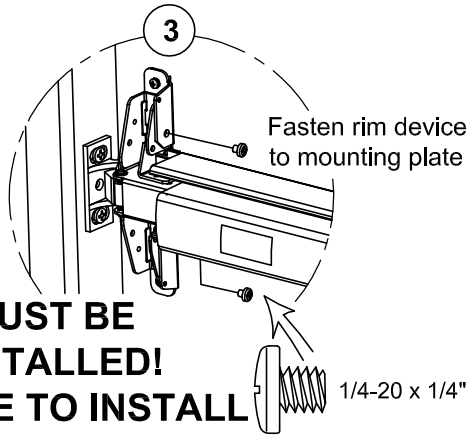

**NOTE: HURRICANE rated devices MUST BE thru-bolted using either sexnuts or outside mating trim**



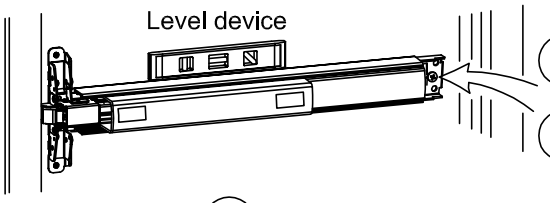

**Optional Sex Nuts can be used for thru-bolting the device to the door. Catalog No: SN1 (quantity 2 per order)**

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



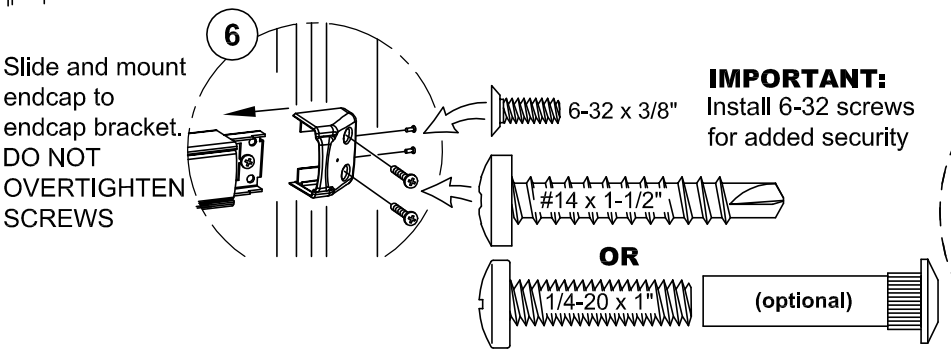




**MUST BE INSTALLED! FAILURE TO INSTALL VOIDS WARRANTY**

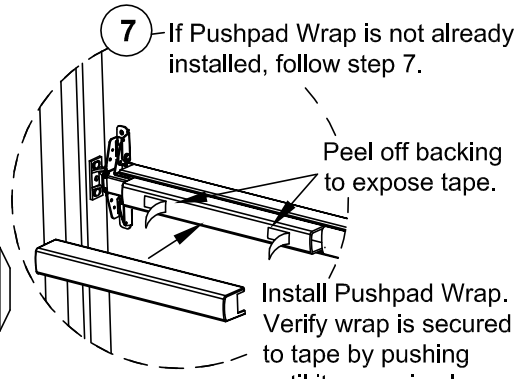


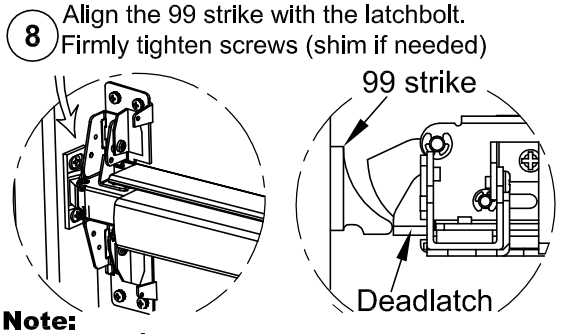

4 Slide fillerplate & endcap bracket into extrusion & level pushpad assembly.
**Note:** Endcap Bracket must bottom-out on extrusion.
DO NOT REMOVE NYLON SPACER ON BACK OF BRACKET!

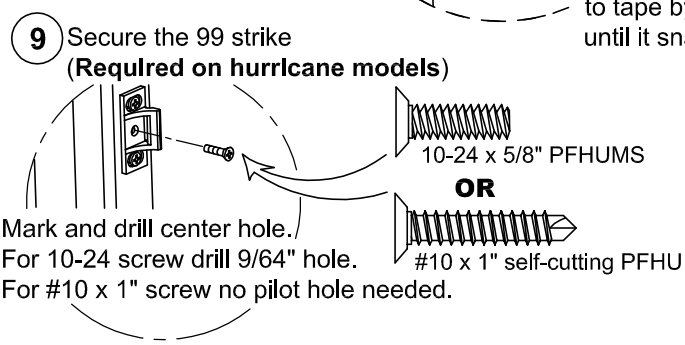
5 With pushpad assembly level, secure the endcap bracket to door by tightening the factory installed self-drilling screw.



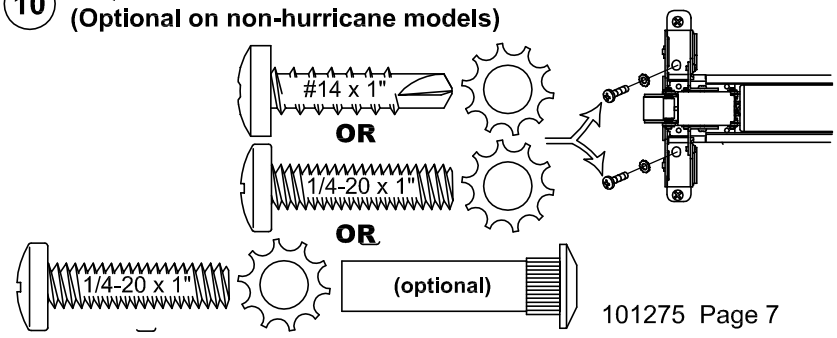

**IMPORTANT:** Install 6-32 screws for added security

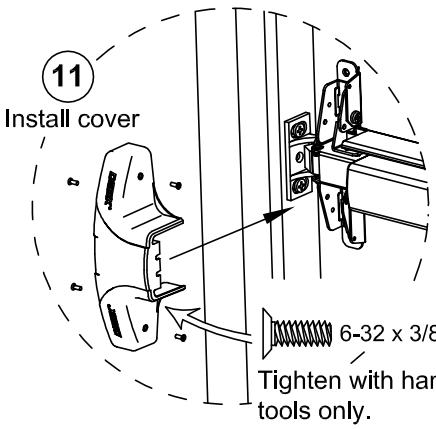


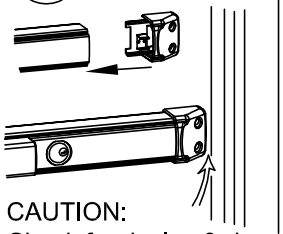

**Note:**
Check device function and strike engagement BEFORE going to step 9



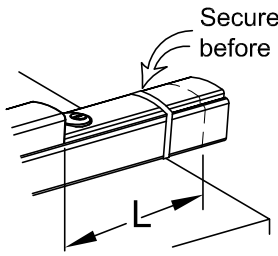
## CHECKING FOR DEVICE CLEARANCE
## (Cut-Off procedure if required)

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

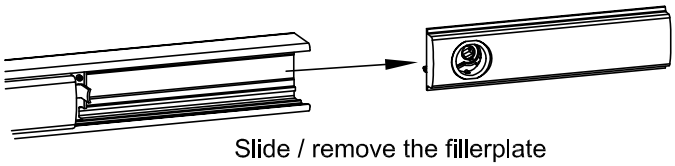



| Non-Electrified Minimum Fillerplate Length | |
|---|---|
| Type | Length (L) |
| **LD** | 2-1/2" |
| **HD/CD** | 3" |

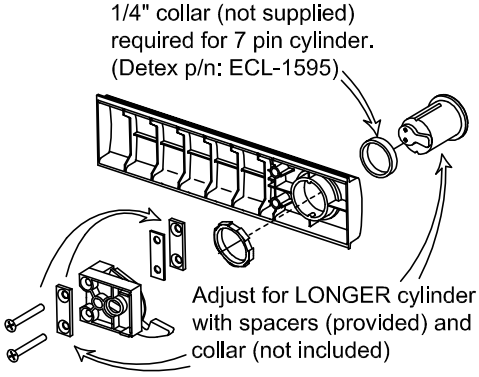
For further Cut-Down information, see:
www.detex.com/cutdown

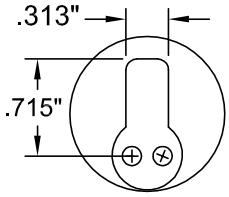
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## MORTISE CYLINDER INSTALLATION (if required)



Slide / remove the fillerplate subassembly

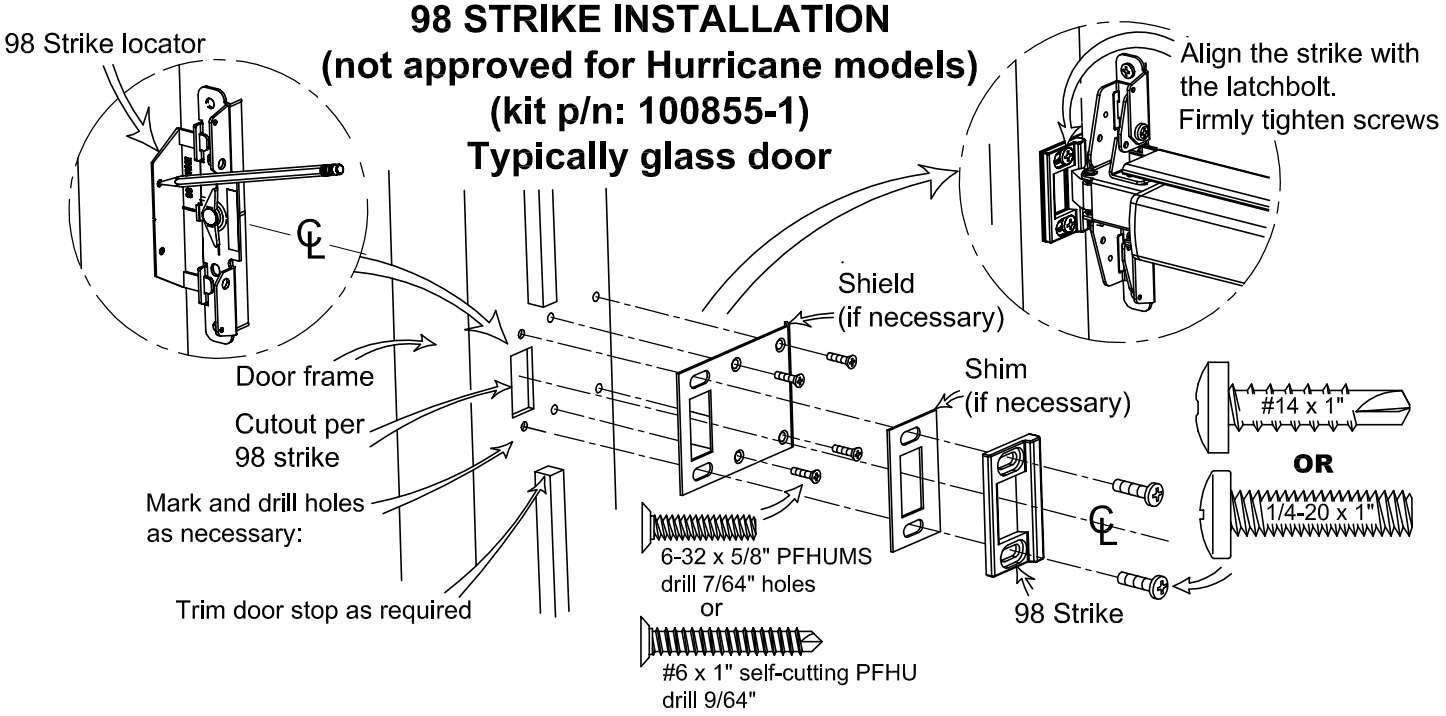



Mortise Cylinder with standard Yale cam required

(1) All cylinder spacers must be used.
(2) Turn key max CCW before installing slide in fillerplate.
(3) Reinstall fillerplate subassembly

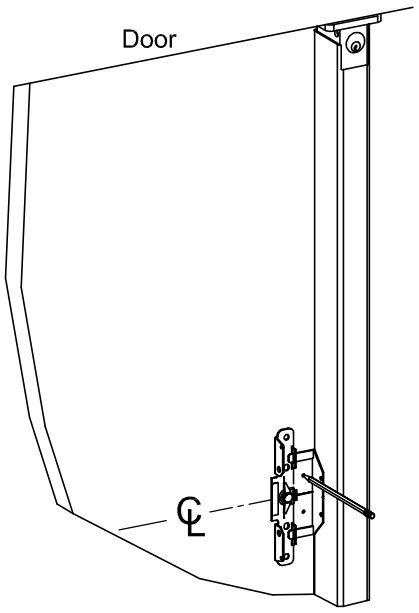
## 98 STRIKE INSTALLATION
## (not approved for Hurricane models)
## (kit p/n: 100855-1)
## Typically glass door

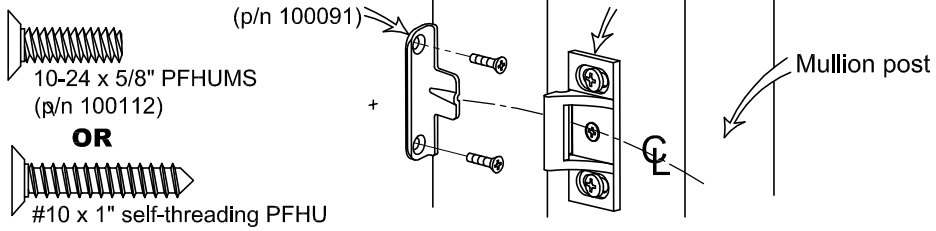



## STRIKE HOOK INSTALLATION

Strike Hook Kit p/n 101795

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




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

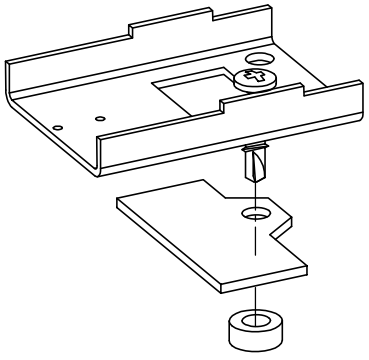
p/n 101617-2 Brushed Brass
p/n 101617-9 Stainless Steel
p/n 101617-20 Oil Rubbed Bronze

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

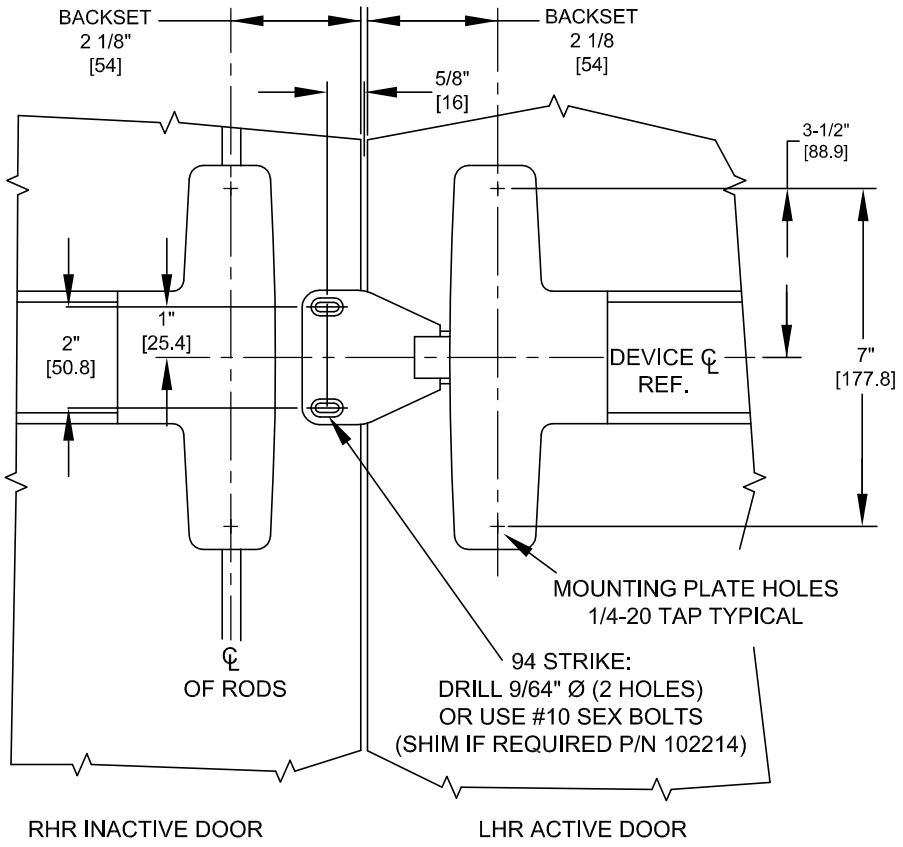
| DRILL CHART | |
|---|---|
| 10-24 Machine screw | #10 Sheetmetal screw |
| #25 or 9/64" tap 10-24 | #22 or 5/32" pilot hole |

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

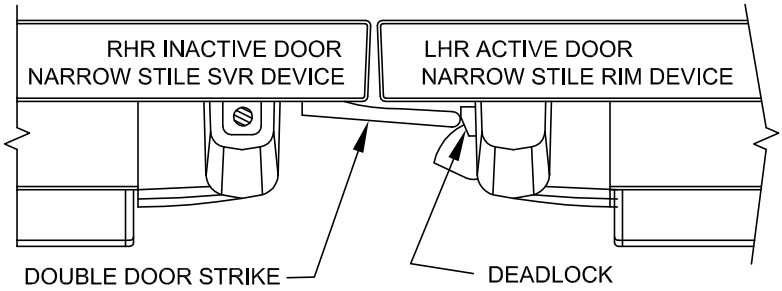
a. Remove the endcap mounting bracket.
b. Remove nylon spacer.
c. Slide facsia onto screw.
d. Reinstall nylon spacer.
e. Reinstall endcap mounting bracket.



## 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

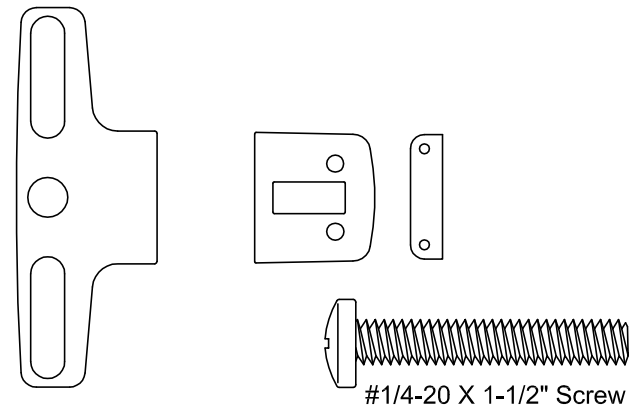



THE DEVICE USED ON THE ACTIVE DOOR SHOULD BE INSTALLED SO THAT THE STRIKE WILL DEPRESS THE DEADLOCK SUFFICIENTLY TO ALLOW FOR ANY AND ALL ALARM / ELECTRONIC FUNCTIONS.
ADD SHIM (P/N 102214) AS REQUIRED. TWO PROVIDED IN KIT.
THE INACTIVE DOOR SHOULD CLOSE FIRST.

# Optional Accessories

## Glass Bead Kit

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

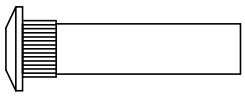


40 Series (Narrow)

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

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## Sex Nut



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

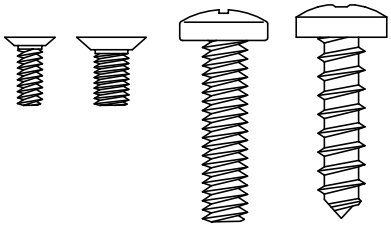
| | |
|---|---|
| Catalog No: SN1 | Brushed Brass BHMA 606 Finish |
| Catalog No: SN1 | Oil Rubbed Bronze BHMA 613 Finish |
| Catalog No: SN1 | Brushed Chrome BHMA 626 Finish |
| Catalog No: SN1 | Stainless Steel BHMA 630 Finish |

p/n: 101616-X

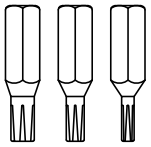
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## Tamper Kit

(Security Kit)
Catalog No: SSK3
p/n: 101233



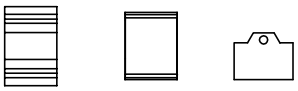
Security Screws



Security Pin TORX® Bits provided

## Narrow Stile Door Kit

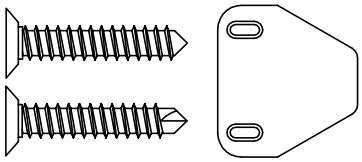
(Splice Kit may be used with either 3-0 or 4-0 units)
Catalog No: NSK1
p/n: 101879-1 (628 Finish, Clear)
p/n: 101189-2 (711 Finish, Black)
(includes 98 Strike)



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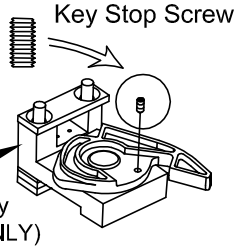
## Double Door Strike Kit

Catalog No: 94 (with Security screws)
p/n: 102212-1



## Key Stop Kit

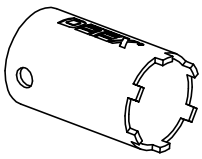
Catalog No: KS
p/n: 101867
Requires a .05 hex wrench (not included)




Dogging Lever Assembly
(shown for reference ONLY)

## Cylinder nut socket kit

p/n: 103779



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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, BP7or 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.