

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
ELECTRICAL INSTRUCTIONS FOR DETEX®
ELECTRIC DOGGING / ELECTRIC LATCH RETRACTION

ADVANTEX® RIM, SVR, CVR & MORTISE

U.S. PATENT NUMBERS:

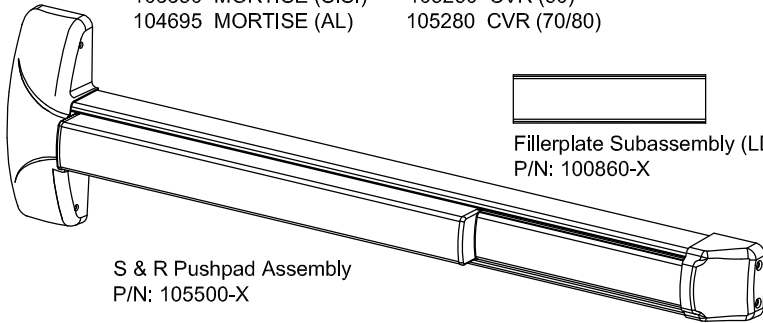
6009732
 6205825B1
 6532777B2

INTERNATIONAL PATENT NUMBER:
 PCT6009732

ED Electric Dogging

ER ELECTRIC LATCH RETRACTION

Dwg #: 102860 RIM (S.S.)	102880 SVR (S.S.)
104600 RIM (AL)	104690 SVR (AL)
103350 MORTISE (S.S.)	105260 CVR (60)
104695 MORTISE (AL)	105280 CVR (70/80)



S & R Pushpad Assembly
 P/N: 105500-X

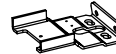


Fillerplate Subassembly (LD)
 P/N: 100860-X

EC1 Endcap P/N:
 101642-X



EC1 Endcap (for FCA):
 P/N 102095-X



EC1 Endcap bracket:
 P/N 100147



EC2 Endcap (S.S.):
 P/N 104304-X
 EC2 Endcap (AL):
 P/N 104612-X



EC2 Endcap (AL) (for FCA):
 P/N 104686-X
 EC2 Endcap (S.S.) (for FCA):
 P/N 104317-X

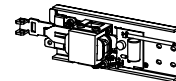


EC2 Endcap bracket:
 P/N 104303

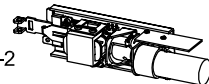
Note: Advantex device shown throughout instruction.
 Values Series parts similar in appearance.

Used on both Advantex & Value Series products:

ED Module: 102830-1
 EDxEX Module: 102830-2



S&R ER Module: 104361-1
 S&R ERxEX Module: 104361-2

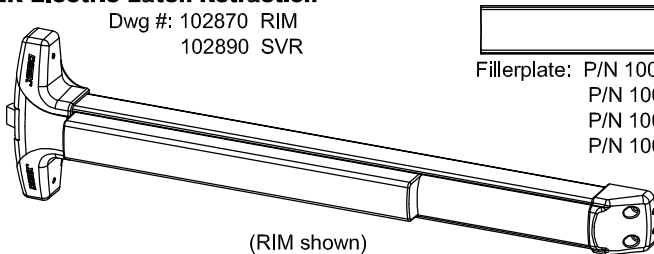


VALUE SERIES® RIM & SVR

ED Electric Dogging

ER Electric Latch Retraction

Dwg #: 102870 RIM
102890 SVR

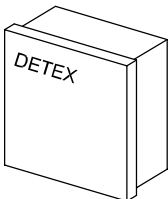


(RIM shown)



Fillerplate: P/N 100408-11 (3-0)
 P/N 100518-11 (3-0 EXT)
 P/N 100417-11 (4-0)
 P/N 100554-11 (4-0 EXT)

Endcap: P/N 101822



Endcap bracket: P/N 101821

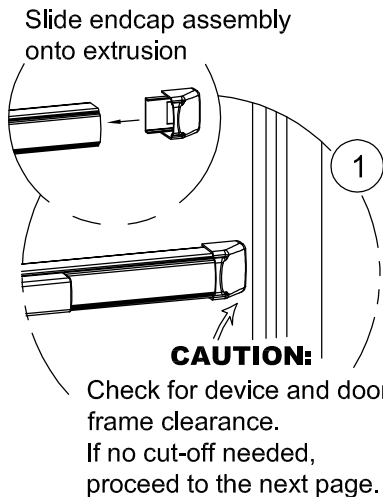
Detex Power Supply Catalog No:
 90-800 ED Single Door application
 80-800 ED Single Door application
 81-800 ER Single Door application
 82-800 ER Double Door application
 83-800 ER Double Door Independent Operation application

Power Supply / Controller sold separately

Owner's Copy

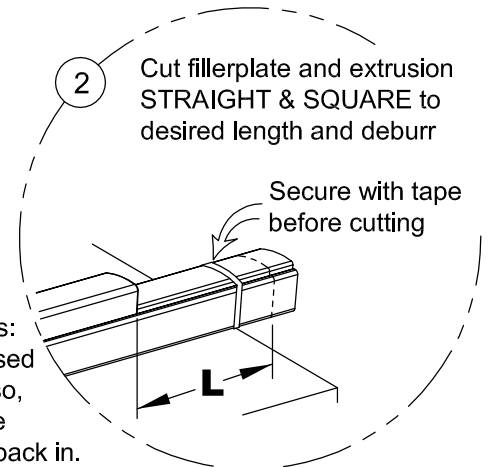
See last page
 for
 Optional
 Accessories

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



Minimum Fillerplate Length	
Value Series Length (L)	Advantex Length (L)
9"	9"

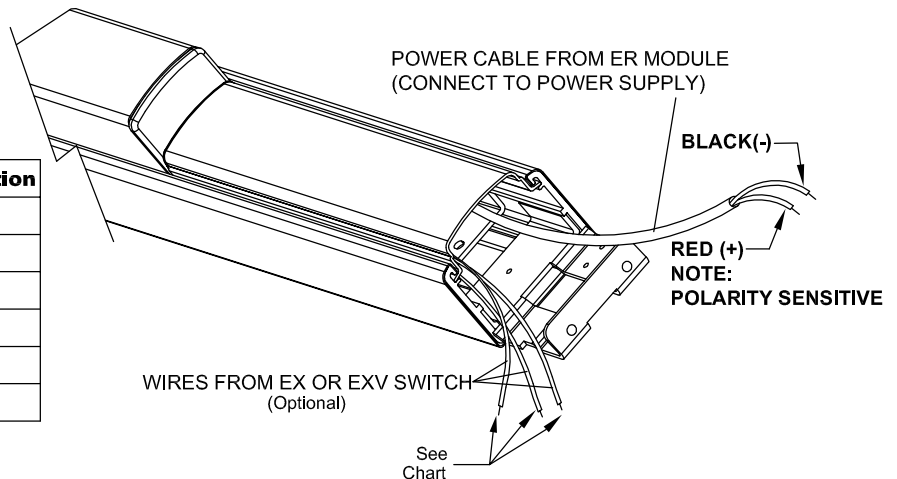
For aluminum Advantex finish cutdown applications:
After cutting, the baseplate extrusion can be reversed to place the cut end inside the head cover. To do so, loosen the setscrew inside the aluminum baseplate extrusion and slide extrusion out, reverse, & slide back in. Tighten setscrew.



ER CONFIGURATION

DETEX ER UNITS REQUIRE A DETEX POWER SUPPLY/CONTROLLER; DETEX P/N 81-800-X, 82-800-X, OR 83-800-X. SEE POWER SUPPLY INSTALLATION INSTRUCTIONS(PACKAGED WITH POWER SUPPLY) FOR COMPLETE INSTALLATION PROCEDURE.

	Amperage	Wire Color	Switch Position
EX	50mA max.	Grey	Closed
		Brown	Common
		Yellow	Open
EXV	3A max.	Grey/Red	Closed
		Brown/Red	Common
		Yellow/Red	Open



CONNECTIONS FOR THE ER MODEL

The red and black wires should be connected to the power supply control board (81-800, 82-800 or 83-800, depending on the door configuration). See power supply instructions 101339 or 101340 as appropriate for typical connections.

RETRACTING THE LATCH

The ER device must be connected to a Detex power supply/controller, 81-800, 82-800 or 83-800. With all the connections made according to the power supply instructions, closing the contact will retract the latch. The pushpad will be pulled down as the latch is retracted. The latch is held by an internal dogging assembly until the contact is released/opened.

HOLDING THE LATCH RETRACTED

ER model holds the latch retracted as long as the control switch is maintained(closed).

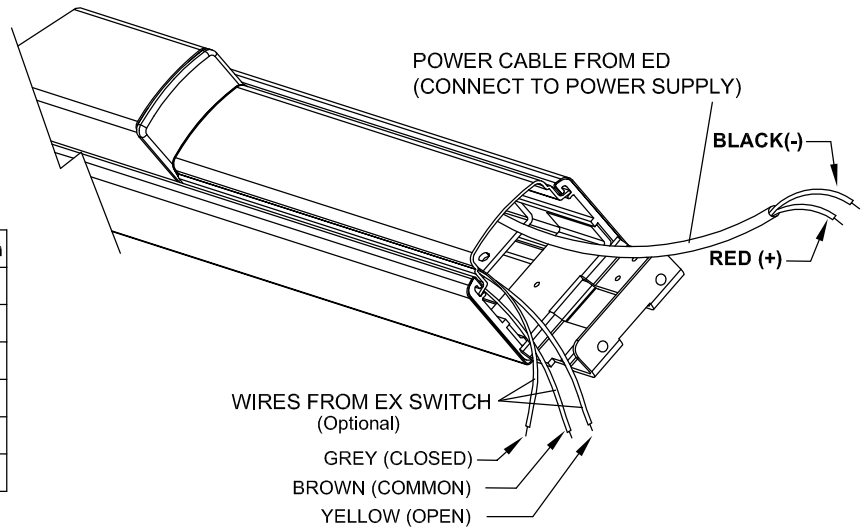
RELEASING THE LATCH

ER is an electronically dogged latch. Opening the control input switch (or contacts) causes the latching mechanism to release. When an 81-800, 82-800 or 83-800 series Detex power supply is used, there is a slight delay from the opening of the switch contacts to the release of the latch. This delay is intended for external signaling and is described in the power supply instructions.

ED CONFIGURATION

DETEX ED UNITS MAY BE OPERATED FROM A 24 V AC OR DC SOURCE OR WITH A DETEX POWER SUPPLY
(NOTE: FIRE RATED DEVICES MUST USE 80-800-X OR 90-800 POWER SUPPLY)

	Amperage	Wire Color	Switch Position
EX	50mA max.	Grey	Closed
		Brown	Common
		Yellow	Open
EXV	3A max.	Grey/Red	Closed
		Brown/Red	Common
		Yellow/Red	Open



CONNECTIONS FOR THE ED MODEL

The ED device can use a transformer or power supply. Use Detex part number PP-5152-2 transformer or approved 24 volt Class 2 equivalent rated at 40 VA or higher. An appropriate switch must be used to control the power to the device. Detex power supply 80-800 or 90-800 may also be used. See ED Connection Diagrams page for a typical installation. Fire rated doors must use the 80-800 or 90-800 power supply. This is because transformers cannot be controlled by the building's fire system. Connections to the building's fire system are described in the power supply instructions.

RETRACTING THE LATCH

The ED model is electrically dogged, but has no mechanism to retract the latch. Once the switch is activated/closed and power is supplied to the device, press the pushpad to open the door. As the pushpad reaches the proper amount of travel, it will automatically latch into place. The pushpad will be held in this position as long as the control switch is maintained (closed).

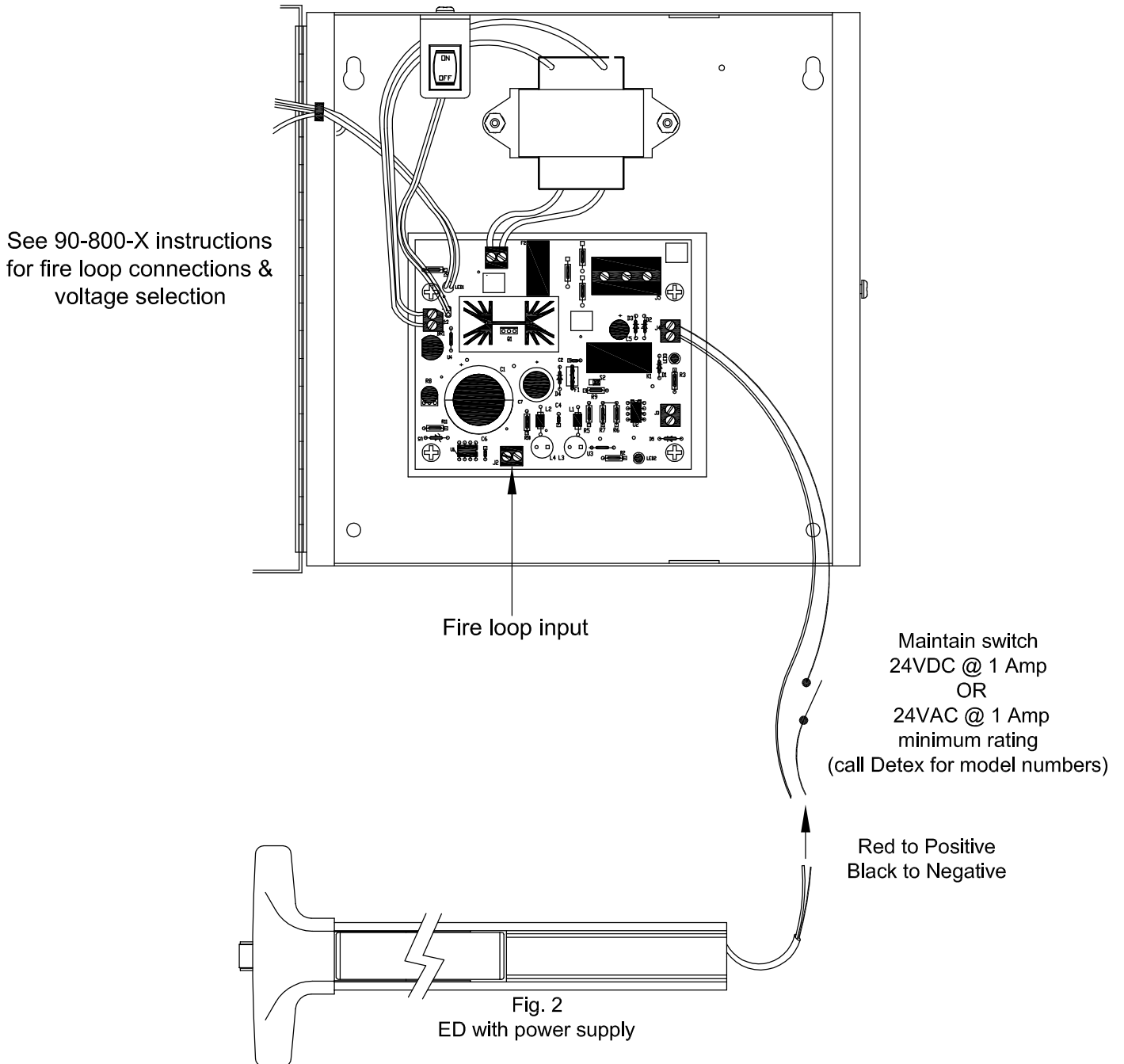
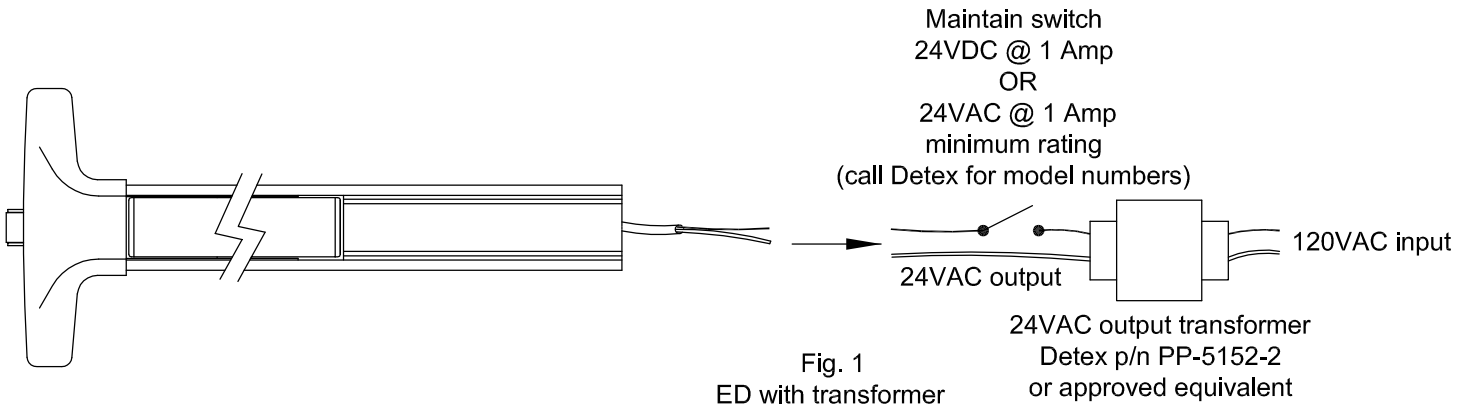
HOLDING THE LATCH RETRACTED

ED model holds the latch retracted as long as the control switch is maintained (closed).

RELEASING THE LATCH

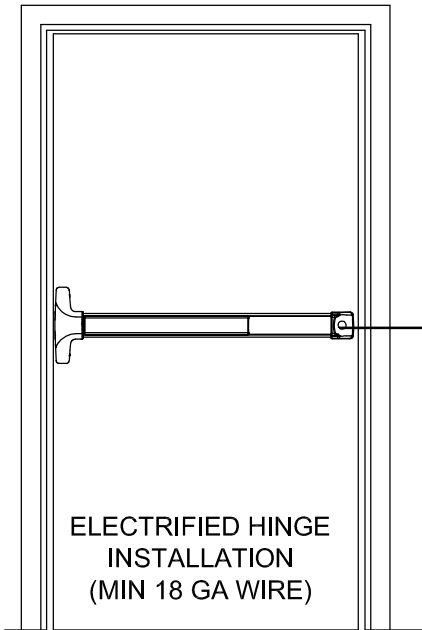
ED is an electronically dogged latch. Opening the control switch (or contacts) causes the latching mechanism to release the lock.

Typical ED Connection Diagrams

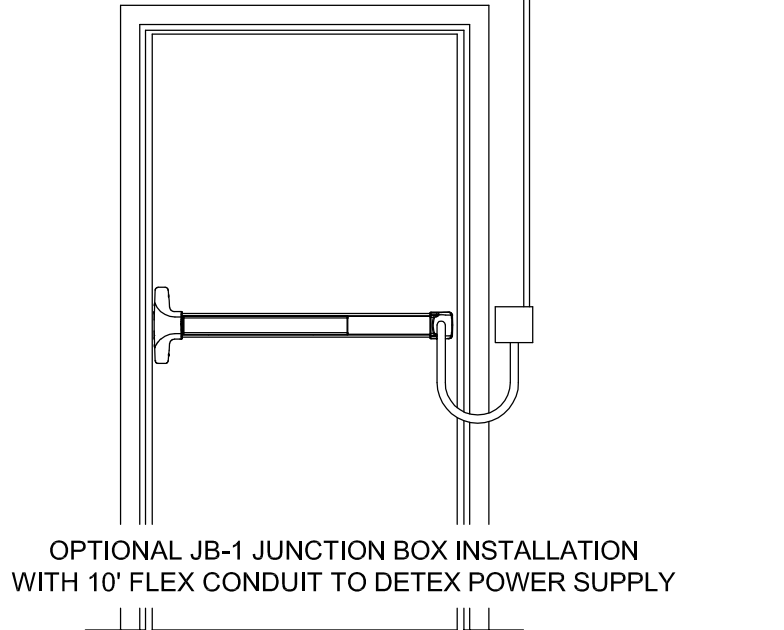


RISER DIAGRAMS AND HARDWIRE TRANSFER OPTIONS

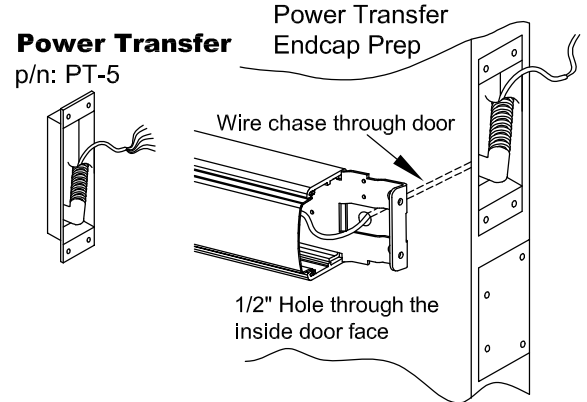
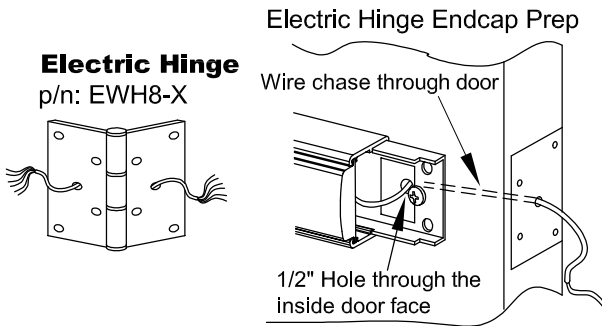
SEE POWER SUPPLY
INSTRUCTIONS FOR
TERMINATION



SEE POWER SUPPLY
INSTRUCTIONS FOR
TERMINATION



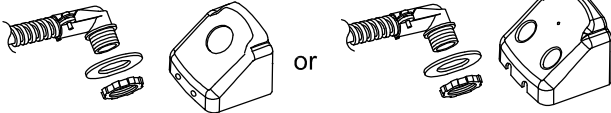
HARDWARE TRANSFER DETAIL



Flex Conduit/End Cap Kit

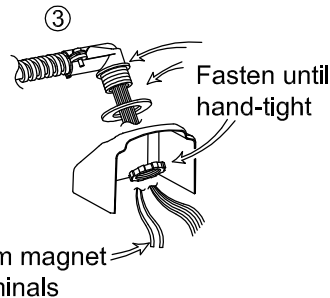
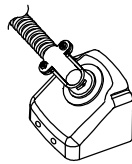
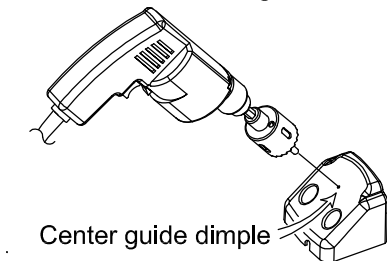
p/n: FCA for Advantex
(Order FCA x Finish)

p/n: FCV for Value Series

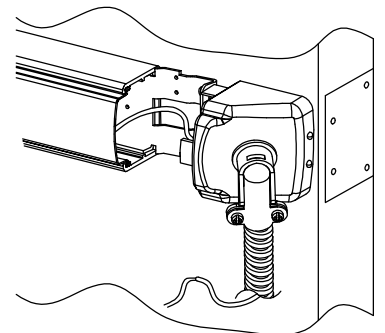


① For Value Series only:
Drill 7/8" hole through.

② Adjust for handing - all
devices (LHR shown)



FCA / FCV Flex Conduit Endcap Prep



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

TROUBLE SHOOTING ER & ED LATCH RETRACTION

Problem	Probable cause & remedy
Latch drags on the strike when pushpad is manually depressed.	Panic bar is aligned slightly to close to the strike. Remove the shim plate from the strike.
Latch drags on the strike after removing shim or does not dog unlocked.	Eye bolt needs to be adjusted. See below.

For further assistance, contact Detex Technical Support at 1-800-729-3839

ADJUSTMENT & TEST PROCEDURE

EQUIPMENT NEEDED: Detex Controller (see instructions for connection locations)
or 24VDC power supply with leads.

Place device on table on it's side with centercase to the left to test.

1. Attach power supply to red(+) and black(-) wires on ER module. Wires are polarity sensitive.
2. Keep hands clear of pushpad assembly.
3. Turn power supply ON. Pushpad should pull down and retract.
4. Verify that latch in CENTERCASE is fully retracted.

Latch should not stick out past deadlatch bolt more than 1/16". (See Fig. A)

5. If latch protrudes more than 1/16", remove pin & re-adjust the eyebolt by turning only 1/2 turn at a time (Fig B). Repeat test until 1/16" is achieved.
6. Turn power supply OFF. This should release the pushpad and latch. TEST IS COMPLETED.

red (+) black (-)

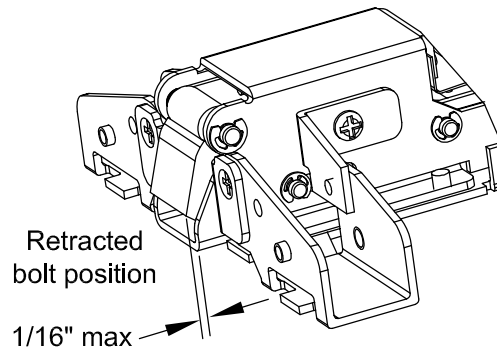
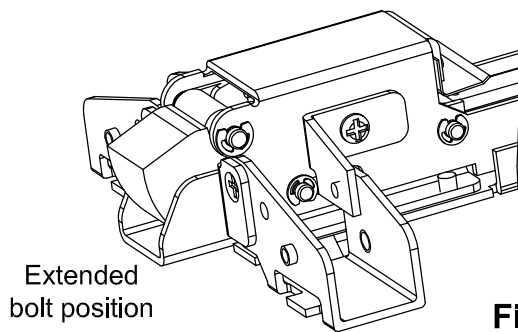
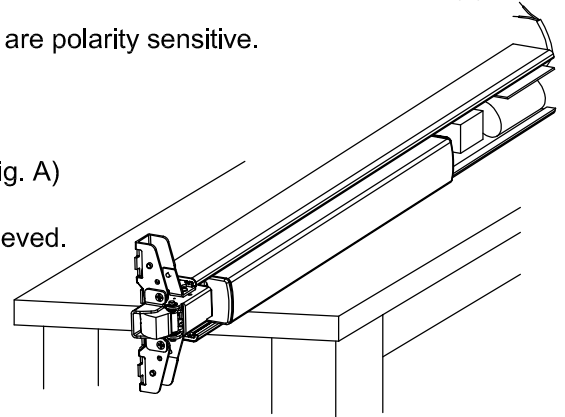


Fig. A
Bolt Position
(Rim only)

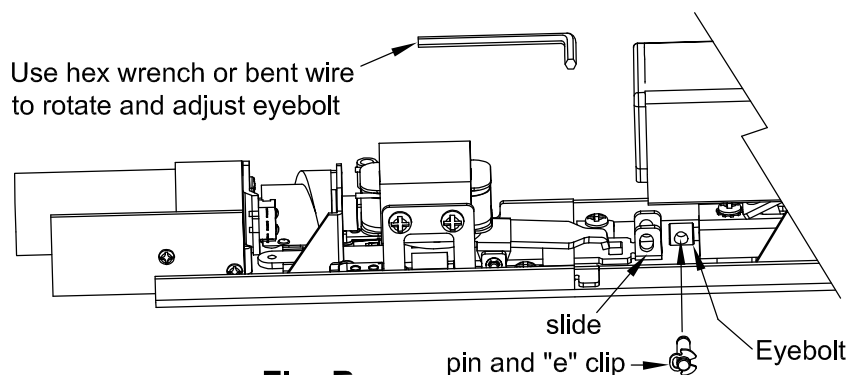
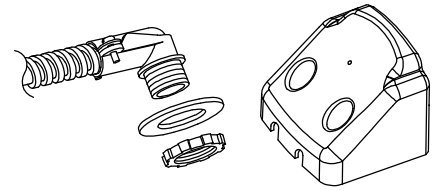
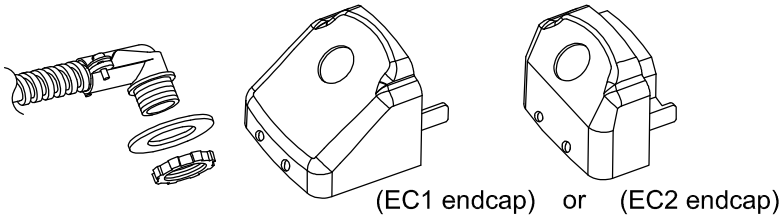


Fig. B
Adjusting eyebolt

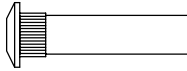
Optional Accessories

Adavantex Flex Conduit Kit
 Catalog No: FCA-[Specify Finish]
 Electrical Wires Not Supplied

Value Series Flex Conduit Kit
 Catalog No: FCV
 (electrical wires not supplied)



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

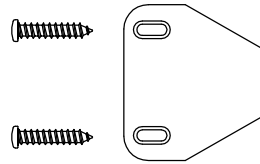


Security Screws



Security Pin TORX® Bits provided

Double Door Strike Kit
 Catalog No: 94
 p/n: 102212-1



The following Models in the series were evaluated by UL: Controlled Exit Panic Devices; Model 10, 40 & V40. These devices may be suffixed with 01, 02, 03, 08, 09, or 14 followed by A, AN, BN, C, CN, D, DN, DT, DNT, DNU, MN, P, PN, W or WS followed by BP1, BP2, BP3, BP4, BP5, BP6 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 ED or ER, 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.