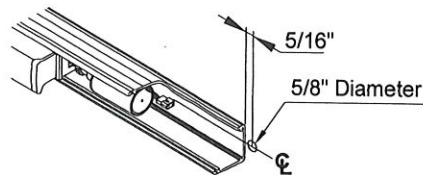


# ELECTRIC LATCH RETRACTION EXIT DEVICE

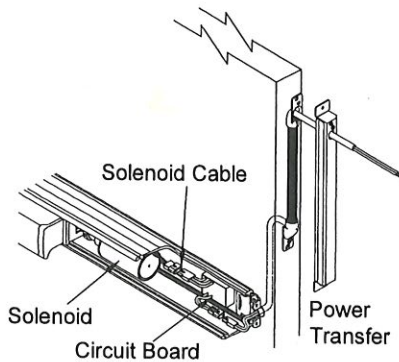
## INSTALLATION INSTRUCTIONS

### 1 WIRING SETUP.

1. Drill 5/8" dia. wire access hole thru device side of door.



2. Route cable through hole and connect wires to power transfer (see "POWER TRANSFER" instructions as needed).



**NOTE:** Do not cut device with circuit board installed.

### 2 FUNCTION CHECK.

1. Make sure device is not dogged.
2. Push/release push bar to see whether latch bolt retracts and extends completely.
3. Electrically energize solenoid and hold.
4. Check latch bolt for full retraction.
5. Release solenoid and check latch bolt extension.

### 3 TROUBLE SHOOTING.

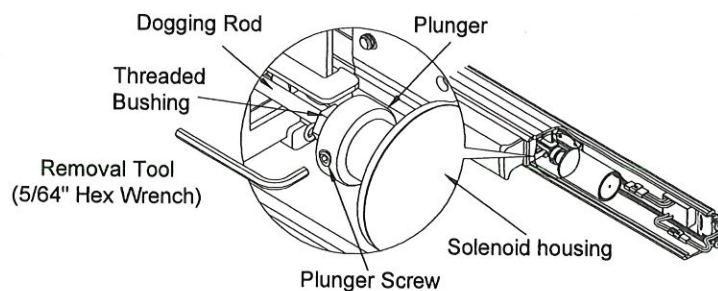
Solenoid must be wired to a PS 100 Series 100-2 logic board. Refer to installation instructions for the PS101 / PS102 Class 2 power supply.

**WARNING:** It is not suggested to use boards other than the ones provided along with product. We do not hold responsible for damage caused by misuse of components.

Problem	Solution
Solenoid fails to hold.	1. Check device vertical rod adjustment (if vertical rod device, see exit device installation instructions). 2. Make sure dogging does not interfere with plunger (ELR-ED only).
Solenoid pulls but no complete retraction of latch.	3. Check dogging rod adjustment (see below for details).
Device works intermittently.	1. Check power supply. It must be PS100 with 100-2 option board. 2. Check for correct AWG of field wiring.

**NOTE:** When power is applied to the circuit board, the solenoid receives a momentary signal to retract and a separate signal to hold as long as power is applied. When attempting to retract solenoid again, power must be removed from the circuit and reapplied.

### 4 HOW TO ADJUST DOGGING ROD.



Maximum Wire Run From Power Supply to Device and Back		
Wire	12 AWG	14 AWG
Feet	200	100

Solenoid Specifications:  
Current Pulse (0.3 seconds) : 24VDC, 16Amp  
Continuous : 24VDC, 0.25Amp

1. Check length of dogging rod:  
Too long if latch bolt does not retract.  
Too short if:  
A. Latch bolt extends partially.  
B. Solenoid cannot hold.
2. Adjust dogging rod.  
A. Loosen plunger screw.  
B. Hold plunger depressed in solenoid housing.
- C. If latch bolt is not retracted, hold plunger fully retracted with thumb and adjust threaded bushing until latch bolt position is correct.
- D. Tighten plunger screw.  
**NOTE:** Plunger screw must be tightened flat against threaded bushing.
- E. Replace cover plate and end cap.
- F. Return to check for proper function.