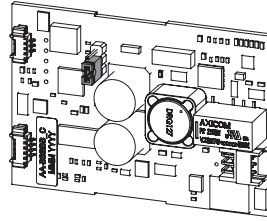


## Calibration Procedure *cont.*

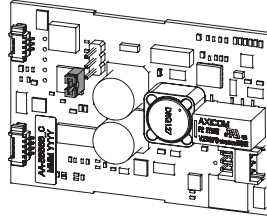
### To **DISABLE** manual calibration process for the installed exit device:

1. ENSURE power is disconnected /OFF.
2. Remove the end-caps from the DOOR mounted EXIT Device. **NOTE: INTEGRATED RITE DOOR ONLY:** Need to remove the mounting screws on the motor side, keep the mounting screws on the latch side secured in place.
3. Remove the PUSH BAR from the mounted EXIT Device by sliding it out.
4. On the exit device PCBA, move red calibration jumper from pins 2,3 (Manual Calibration Enabled) to pins 1, 2 (NO Calibration Enabled) (Refer to Diagrams 5, 6, and 7).
5. Reinstall the PUSH BAR & mounting screws to the EXIT Device.

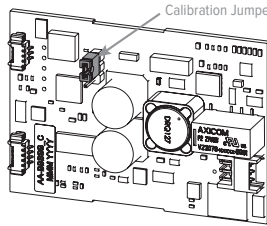
**DIAGRAM 5:**  
Device Factory Setting – Factory Calibration/Manual Calibration Position



**DIAGRAM 6:**  
Remove Red Jumper from Manual Calibration Position



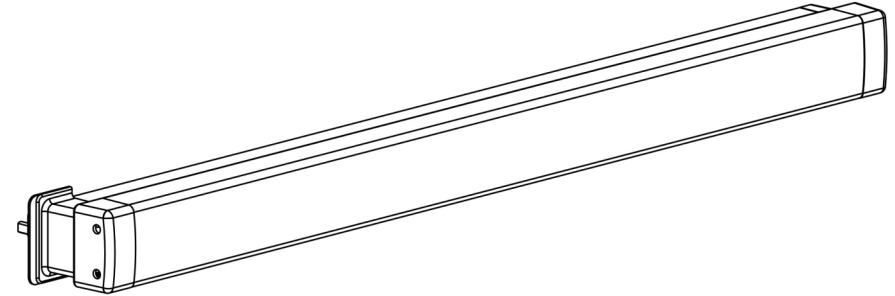
**DIAGRAM 7:**  
Replace Red Jumper in No Calibration Position



# 3000MLR/8000MLR Exit Devices Motorized Latch Retraction Installation Instructions



Experience a safer  
and more open world



## Trouble Shooting **Motorized Latch Retraction**

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
Device is inoperative	Incorrect voltage or no voltage present at the exit device	With a multimeter measure the voltage at the device, with the device energized. Verify that the voltage matches the device requirements, both voltage level and type (DC) is correct.
	Faulty Switch	Verify operation of control switch, perform a continuity check to ensure proper operation
	Failed Motor	Measure the resistance across the motor wires and ensure that it is 8.7 ohms +/- 10%.
Sluggish operation	Incorrect voltage or no voltage present at the exit device	Verify voltage being supplied to the device, both voltage level and type (DC)
Device buzzes when energized	Using AC to power the device	Voltage must be DC, use a rectifier to convert AC to DC
Device tries to retract but fails	Binding between latch and strike	Try to electrically operate the device with the door in the open position. If the device operates, make the necessary strike adjustment to relieve the back pressure on the bolts. If the problem persists, recalibrate the device.
	Maintained switch is being used and is in the closed position	Open switch to release the exit device
	Defective control switch	Replace if necessary

## Preparing for Installation

### Function

All 3000/8000 Series Exit Devices provide a motorized latch retraction from a remote location. The exit device is fail secure—in the event of a power failure, the exit device defaults to a latched condition.

### Specifications

- Rated Voltage: 24 VDC
- Rated Current: 850mA to retract (< 1 sec); 370mA to hold
- Rated for continuous duty

### Mounting Information

The exit device is mounted in the standard manner per the specific exit device installation instructions. The exit device must function mechanically prior to operating electrically.

### Safety Instructions

This device is limited in its applications and should only interface with components that are equally rated. Any failure to observe and adhere to the operating limits may cause permanent damage.

#### CAUTION

This product must be installed in accordance with all applicable building and life safety codes.

#### CAUTION

Failure to ensure that there are no shorts across power feed lines may result in damage to power sources and will prevent electric retraction of the exit device.



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Patent pending and/or patent  
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# Installing Power Supply

## The following are the installation requirements/comments for the MLR feature exit device:

**NOTE 1:** Recommended circuit hookup for the Adams Rite power supply is provided in Diagram 1: Adams Rite Model PS-SE Power Supply, and the owner's manual supplied with the power supply.

**NOTE 2:** Wire size recommendations are provided in Diagram 2: Wire Sizing.

- 24 VDC device power is supplied by an Adams Rite power supply or equivalent (Part Number: PS-SE).
- A remote switch or normally open dry contacts within the access control system is required to control the electrical operation.
- Switch contacts are rated for the power requirements shown in Diagram 1.

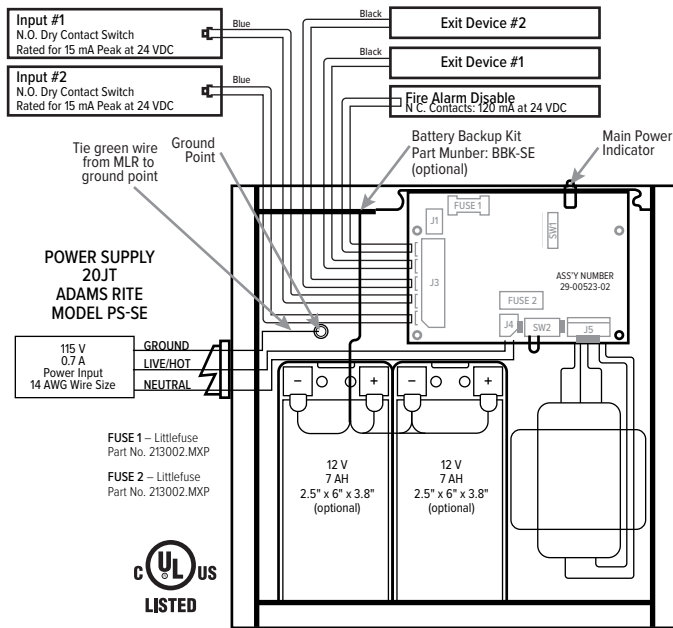
**NOTE 3:** The power supply owner's manual provides instructions on how to set the BAR retraction hold time.

- Operation of the switch will retract the latching mechanism for as long as the switch closure is maintained, or until the adjustable delay times out.
- A maximum of two electrified devices, activated either sequentially or independently, can be operated with one PS-SE power supply.
- There is an option to install a battery backup in the PS-SE power supply by ordering the BBK-SE battery backup system kit and two 12-volt, 7-ampere-hour batteries. Installation is per the PS-SE owner's manual.

**CAUTION**  
This product must be installed in accordance with all applicable building and life safety codes.

**DIAGRAM 1: ADAMS RITE MODEL PS-SE POWER SUPPLY**

**NOTE:** The owner's manual must be used to wire an Electric Latch Controller.



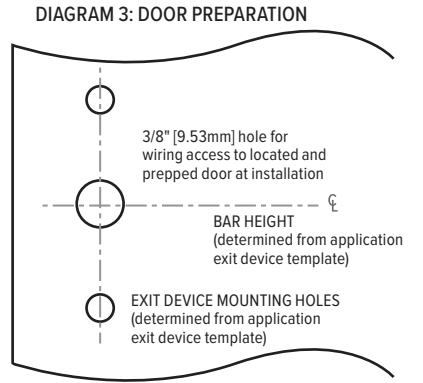
**DIAGRAM 2: WIRE SIZING**

AWG Chart-Run Length for 24 VDC at .5 A	
RUN LENGTH	WIRE GAUGE
0-300	18
300-600	16
600-900	14

# Installing Exit Device

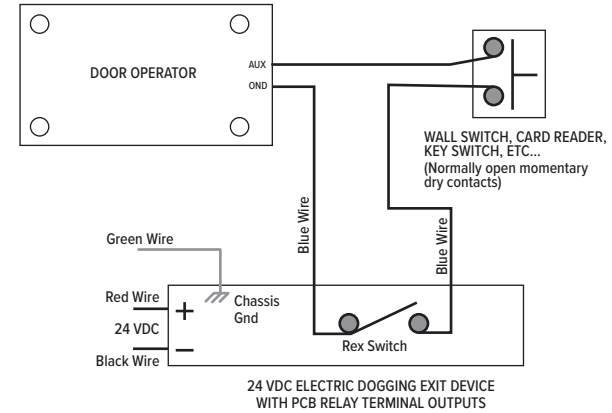
**NOTE:** The exit device template should be reviewed to determine applicable bar height for installation.

1. INSTALL the exit device with MLR feature in accordance with the specific exit device installation instruction.
2. DRILL a 3/8" [9.53mm] hole on the door for wiring access at the time of installation (see Diagram 3: Door Preparation).
3. PASS the wiring, using an Adams Rite 4612 wire transfer or equivalent to properly transfer the wires from the frame to the door.
4. ENSURE wires are protected from abrasion where they pass through the hole in the door by using a sufficient protection device [i.e., rubber grommet (not supplied)].



# If Hooked Up to Door Operator (Optional)

**DIAGRAM 4: MOTORIZED LATCH RETRACTION — EXIT DEVICE WIRING**



**WARNINGS**  
The power must be shut off before servicing fuses or personal injury could occur.  
The factory power setting for SW2 is 115 V. Care must be exercised around high voltage.

**CAUTION**  
The controller is intended for indoor use only. Using it outdoors could cause damage.

**SW1, CH1, or CH@**  
Actuator Hold Time  
1 = ON 0 = OFF

POSITION			TIME/SEC
A	B	C	
0	0	0	2.0*
1	0	0	5.0
0	1	0	10
1	1	0	15
0	0	1	20
1	0	1	30
0	1	1	45
1	1	1	60

\* Factory Setting

# Calibration Procedure

**NOTE:** This product has been calibrated at the factory to provide full bar travel however, calibration can also be performed after install. Before considering recalibration, ensure the maximum force required to manually unlatch the door is compliant to all applicable building and life safety codes. Incorrect mechanical adjustment of the opening may prevent the MLR from unlatching the door. See section on troubleshooting for possible resolution to the BAR retraction failure. If deemed necessary to recalibrate the product, see below for further details in calibrating the device or disabling this feature.

## To PERFORM manual calibration process for the installed exit device:

1. Manually DEPRESS the push bar fully.
2. APPLY 24 VDC power to the exit device.
3. The motor will emit two chirps confirming calibration is complete, RELEASE the push bar to its normal protracted position. If power is still applied, the bar will full retract and remain retracted until power is removed.
4. IF the calibration process does not complete successfully, then REPEAT steps 1 – 3.