DEM680E Series Delayed Egress Magnalock® with EcoMag™ Technology

SECURITRON
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Installation & Operating Instructions

Product Components

A Magnalock & Mounting Bracket
B Strike Housing
C Strike Plate Assembly
D Wall Mounted Key Switch
E Settings Labels
F Sex Bolt & Tapered Washer
G Template Pins
H NFPA Door Label

Installation Hardware Pack Contents

I #14 X 3" Type A Phillips Pan Head Screw (4)
J Threadlocker Packet
K WOOD DOORS: #6 X 1/2" Phillips Flat Head Type A Steel Screw (6)
L METAL DOORS: 6-32 X 3/8" Phillips Flat Head Type F Steel Screw (6)
M #12 X 1-1/2" Type A Phillips Pan Head Screw (4)
N Rivet Nut Install Tool
O 1/4-20 X 1" Phillips Pan Head Screw (2)
P 1/4-20 Rivet Nut (2)
Q 3/16" Hex Key

NOTE: Hardware is provided for various installations.
There will be leftover parts depending on the type of installation.

Specifications

Dimensions

- Height: 2.50" [64 mm]
- Depth: 2.56" [65 mm]
- Length: 11.50" [292 mm]

Certifications

- UL 10C Fire Rated, 1 Hour
- CAN/ULC-S104 Fire Door Conformant
- UL 294
- UL Tested Ratings: Endurance: 100,000 cycles
- ANSI/BHMA A156.23, Grade 2; E18501 Compliant
- California State Fire Marshal Listed
- NFPA 101

Electrical

- **Magnalock Minimum Current Draw (±10%)**
  95 mA at 12 VDC
  65 mA at 24 VDC
- **Magnalock Maximum Current Draw (±10%)**
  575 mA at 12 VDC
  315 mA at 24 VDC

Static Holding Force

- 1,200 lbs [544kg]

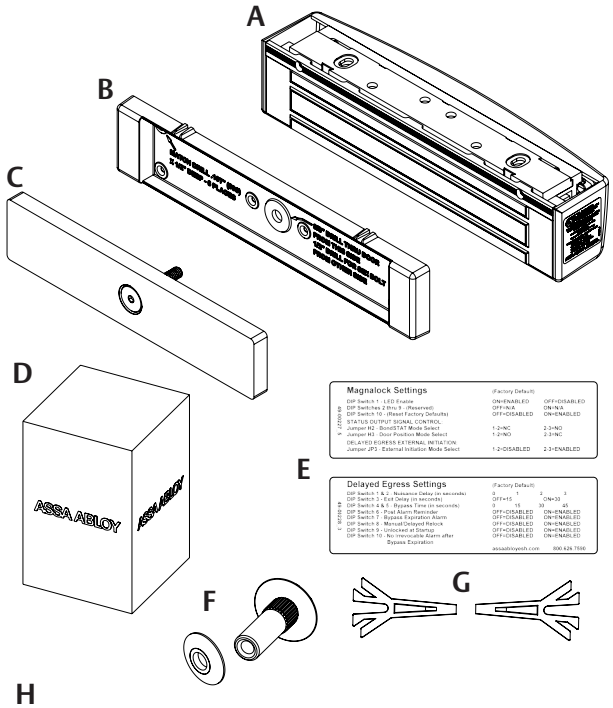
Operating Temperature

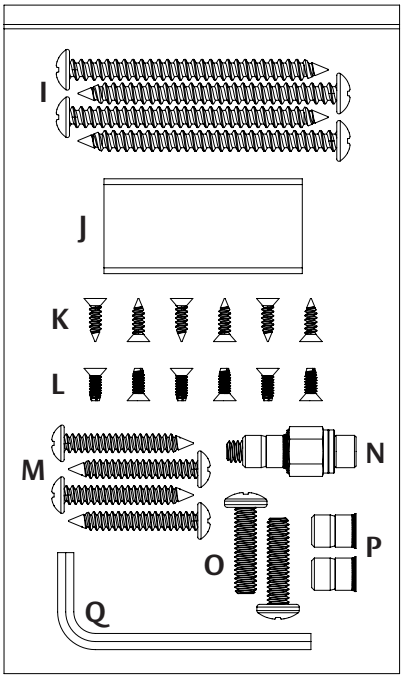
- 32˚ to 120˚F [0˚ to 49˚C]
- Indoor use only

IMPORTANT: UL 294 compliance requires that the locking device be powered by a UL 294 (ALVY) or UL 603 (APHV) listed power supply and shall be installed in accordance with the following UL and National Standards: NFPA 70 – National Electrical Code.

IMPORTANT This Magnalock requires calibration upon installation.

Diagram 1 Product Components



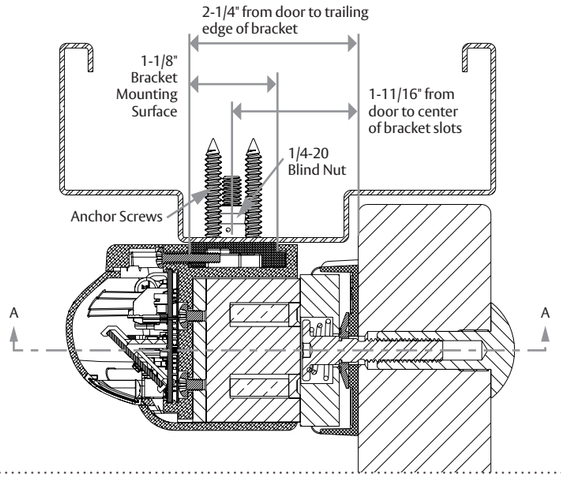


Performing a pre-installation survey

1 Before installing the Magnalock, determine and assess the mounting location for the following:

- **Physical strength of the frame** — should be strong enough to meet or exceed the holding force of the Magnalock.
- **Frame and vicinity** — should offer protection for the wiring to prevent vandalism, and provide adequate protection from rain exposure.
- **Door inspection** — inspect for any obstacles that may interfere when mounting the strike plate and ensure that there is minimum door movement when the door is latched.
- **Proper mounting** —The Magnalock comes with factory default mounting hardware for use with an out-swing door.

Diagram 2 Assessing the installation site



Preparing the Magnalock

1 Ensure that there is at least 2-1/4" between the closed door and the edge of the header. If not, a header bracket (sold separately) may be required (see **Diagram 2**).

Removing the cover and mounting bracket

1 Using a Phillips screwdriver, REMOVE the two (2) screws that secure the cover, as shown in **Diagram 3a**, and the (3) screws that secure the mounting bracket to the top of the lock chassis as shown in **Diagram 3b**.

2 SET the cover and screws aside to re-attach later.

3 SLIDE the bracket to disengage from the top of the lock chassis.

Diagram 3a Removing the cover

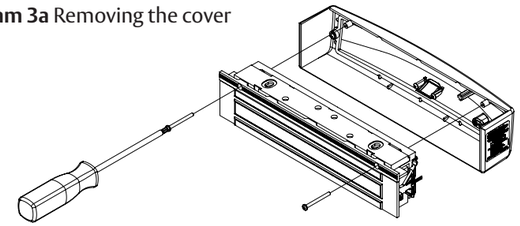
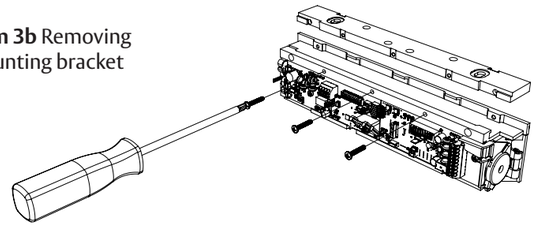


Diagram 3b Removing the mounting bracket



Marking the frame

1 PINCH and insert the template pins flush into the dovetail slots of the mounting bracket (see **Diagram 4**).

2 APPLY MASKING TAPE to the door and frame surfaces to protect from any possible damage during marking and drilling.

3 PLACE the mounting bracket against the frame stop on the secure side of the door and on the side of the door that does not have hinges. Ensure that there is a minimum a clearance of 1" from the frame.

4 CLOSE the door and adjust the bracket so that the template pins rest against the door.

Diagram 4 Inserting the template pins

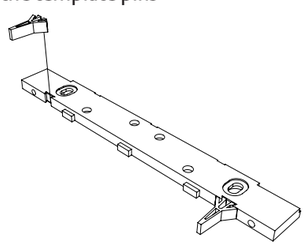
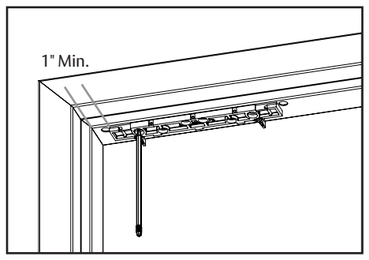


Diagram 5 Marking the frame



5 MARK the frame through the two (2) oblong (slotted) bracket mounting holes (see **Diagram 5**).

6 MARK the frame for a wire feed-through hole at the end closest to where the wire run will be accessed and ensure the hole marking is centered at least 5/16" from the end and aligned with the rear edge of the bracket (see **Diagram 6**).

7 REMOVE the mounting bracket from the frame.

Installing the Magnalock on a METAL DOOR frame

NOTE: Drilling a pilot hole first or using a step bit will ensure a snug fit for the blind nuts.

1 DRILL two (2) 3/8" diameter holes in the frame at the bracket mounting hole marks (see **Diagram 7**). DO NOT oversize.

NOTE 1: Blind nuts provide a highly secure and tamper-resistant system for mounting and are provided for this unit.

NOTE 2: A blind nut installation tool (Securitron BPT-2, Blind Nut Placement Tool, or similar) can be used instead of using a box end wrench and hex wrench.

2 INSTALL a blind nut into each 3/8" diameter hole using the provided tool (see **Diagram 8**).

- Hold the collapsing nut with a 1/2" open or box end wrench.
- Maintain pressure against the mounting surface while tightening the cap screw using a 3/16" hex wrench to collapse the blind nut.

3 DRILL 1/2" diameter wire access holes as needed, on one or both sides of the bracket (see **Diagram 9**).

4 REMOVE the protective tape from the frame.

5 Temporarily INSTALL the mounting bracket with template pins against the closed door using a Phillips screwdriver and two (2) 1/4-20 x 1" Phillips pan-head screws (see **Diagram 10**).

Installing the Magnalock on a WOOD DOOR frame

1 DRILL two (2) 3/16" diameter mounting holes by 1-1/4" deep at the bracket-mounting hole marks (see **Diagram 7**).

2 DRILL 1/2" diameter wire access holes as needed, on one or both sides of the bracket (see **Diagram 9**).

3 REMOVE the protective tape from the frame.

4 Temporarily INSTALL the mounting bracket with the template pins against the closed door using a Phillips screwdriver and two (2) #12 x 1-1/2" Type A, Phillips pan-head screws (see **Diagram 10**).

Diagram 6 Marking the wire feed-through hole

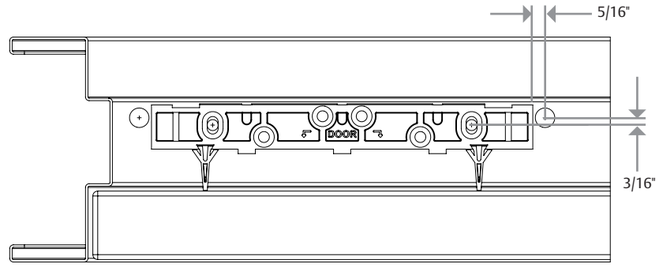


Diagram 7 Drilling the bracket mounting holes

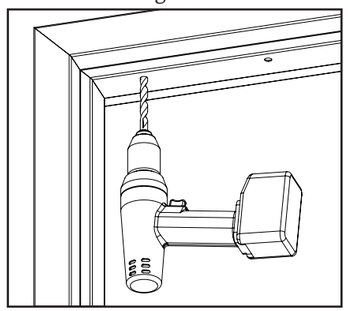


Diagram 8 Installing the blind nuts

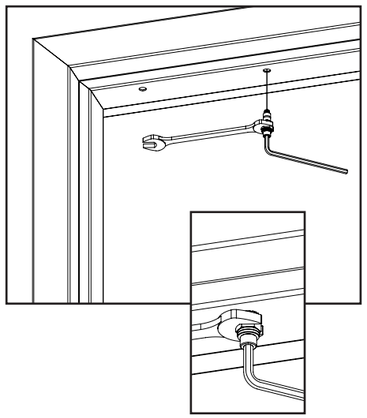


Diagram 9 Drilling the wire access holes

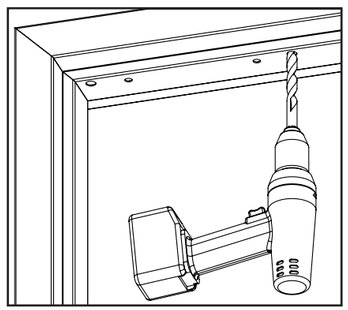
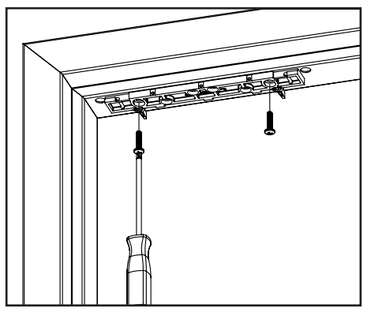


Diagram 10 Installing the bracket



Installing the strike on the door

1 With the door closed, ALIGN the strike housing with the template pins as indicated on the strike housing. Ensure the strike housing is pushed up snug against the template pins.

2 MARK seven strike housing mounting hole locations (see **Diagram 11**).

3 REMOVE the strike housing from the door and the template pins from the lock mounting bracket.

From the INSIDE

4 DRILL a level 3/8" diameter hole for the sex bolt all the way through the door at the strike mounting center mark.

5 **FOR A HOLLOW METAL DOOR:** DRILL six (6) #36 (0.107") holes through the inside skin of the door for the strike housing mounting screws.
FOR A WOOD DOOR: DRILL six (6) #36 (0.107)" x 1/2" deep holes for the strike housing mounting screws.

From the OUTSIDE

6 **FOR A HOLLOW METAL DOOR:** DRILL out the 3/8" diameter sex bolt hole to 1/2" diameter in the outside skin of the door (see **Diagram 12**).
FOR A WOOD DOOR: DRILL out the 3/8" diameter sex bolt hole to 1/2" diameter completely through door.

Secure the strike plate assembly to the door

7 INSERT the sex bolt into the hole from the outside of the door (see **Diagram 13**).

8 ATTACH the strike plate housing using six (6) 6-32 x 3/8" Phillips flat-head screws for METAL **–OR–** six (6) #6 x 1/2" Phillips flat-head screws for WOOD door.

9 **CRITICAL STEP:** PLACE the tapered washer on the strike assembly screw with the smaller diameter surface of the washer facing against the back of the strike plate, as shown in **Diagram 14**.

10 APPLY thread-lock compound (included) to the strike assembly screw.

11 INSERT the strike assembly screw through the strike housing and door and into the sex bolt.

12 **CRITICAL STEP:** TIGHTEN the screw into the sex bolt using the 3/16" hex wrench. While tightening, gently tap the head of the sex bolt using a rubber mallet until the head sits flush with the door.

NOTE: To provide maximum door movement after installation, the head of the strike assembly screw should be approximately 0.025" (about the thickness of a paperclip) below the surface of the strike as shown in **Diagram 15**.

NOTE: DEM680E detects door movement through a concealed 'patent pending' strike assembly. OVERTIGHTENING the strike assembly screw will reduce door movement range and may cause false alarms. DO NOT OVERTIGHTEN the strike assembly screw.

Diagram 11 Marking the strike housing mounting hole locations from the inside

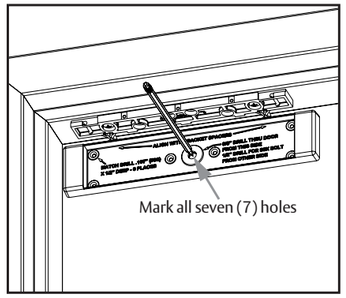


Diagram 12 Drilling the sex bolt hole from the outside

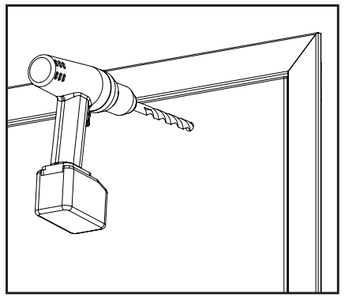


Diagram 13 Securing the plate assembly to the door

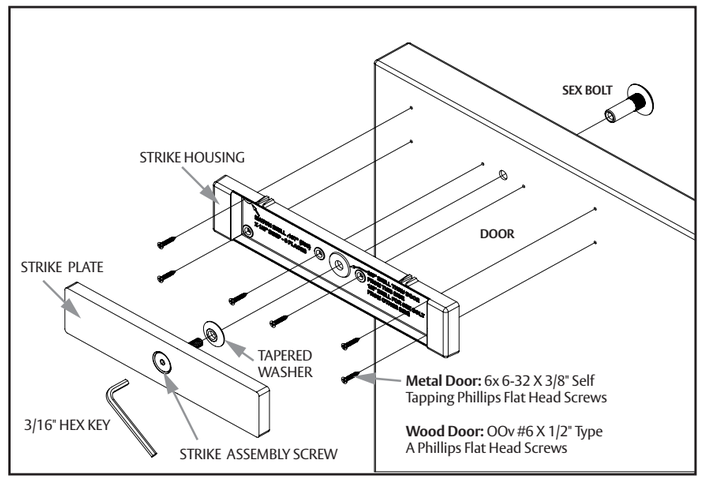


Diagram 14 Strike assembly installed – *section view*

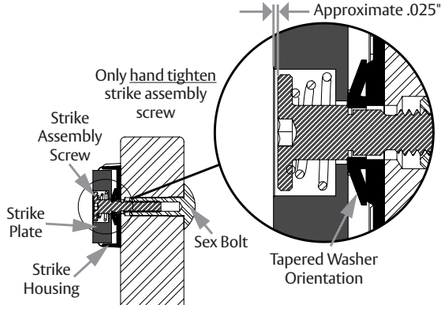
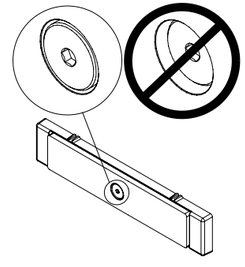


Diagram 15 Strike assembly installed – *inside door*



Mounting the Magnalock and aligning to the strike plate

1 SLIDE the Magnalock assembly to fully engage the lock chassis to the mounting bracket. Install one of the three screws through one of the top chassis holes and into the mounting bracket to temporarily secure the Magnalock (see **Diagram 16**).

2 SLIDE the lock forward or backward so that the entire face makes contact with the strike plate on the closed door.

3 MARK the back edge of the mounting bracket at each end and remove the Magnalock from the bracket (see **Diagram 17**).

4 ENSURE that the mounting bracket aligns with the marks and TIGHTEN the mounting screws (see **Diagram 18**).

5 USING THE BRACKET AS A TEMPLATE, DRILL pilot holes as necessary, then install and tighten the four (4) final mounting screws (see **Diagram 19**).
FOR HOLLOW METAL DOORS: DRILL 3/16" holes and use #12 x 1-1/2" screws.
FOR WOOD DOORS: DRILL 7/32" holes and use #14 x 3" screws.

6 RETURN the Magnalock to the bracket and secure the chassis to the bracket with three (3) screws.

Diagram 16 Mounting the Magnalock to the bracket

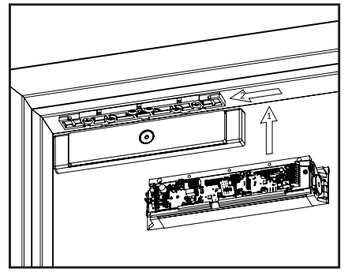


Diagram 17 Marking the back edge of the mounting bracket

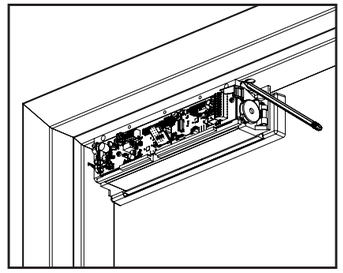


Diagram 18 Tightening the mounting screws

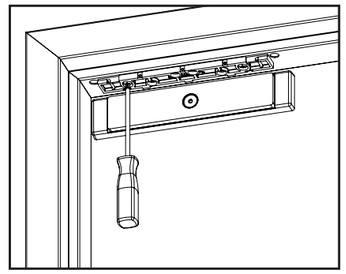
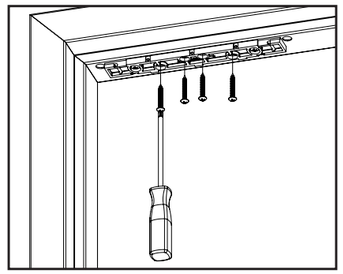


Diagram 19 Installing the final mounting screws



Installing the wall-mounted switch

1 ASSEMBLE the cylinder and switch to the wall-mounted key switch plate (see **Diagram 20**).

2 MARK the corners for the mounting device at the desired locations on the wall and create a cut-out (see **Diagram 21**).

3 INSERT the mounting device into the cut-out and fasten it in place with a Phillips screwdriver (see **Diagram 22**).

4 MAKE the wire connections and install the key switch plate using a flat-tip screwdriver and two 6-32 screws (see **Diagram 23**).

Diagram 20 Assembling the key switch plate

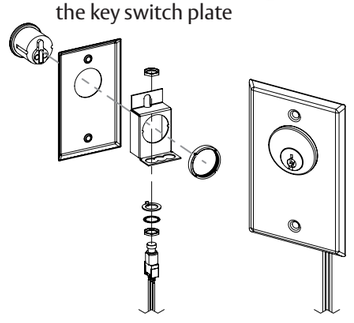


Diagram 21 Marking the wall cut-out

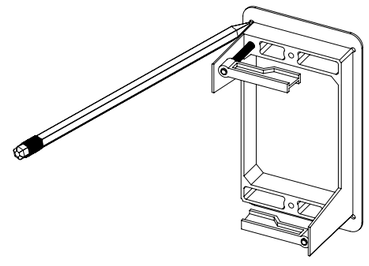


Diagram 22 Installing the mounting device

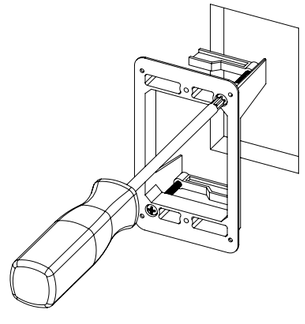
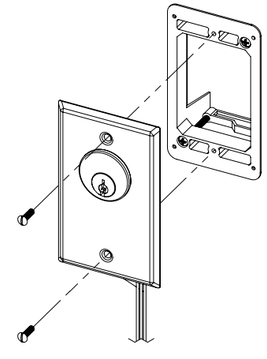


Diagram 23 Installing the key switch



MAGNALOCK ELECTRICAL INSTALLATION

Pulling the wiring

NOTE: End-user and installer must comply with fire and building codes.

1 PULL wires/cables through the wire feed-through hole(s) drilled in the frame.

2 INSTALL the provided wall-mounted switch if necessary.

Connecting the final wiring

1 CONNECT the wires using **Diagrams 24 through 28** as guides and as applicable.

NOTE: The positive terminal (+) and reference voltage (VREF) are internally bussed to provide a reference voltage for external control.

2 LOCATE the jumpers as shown in **Diagram 29**.

3 SET the jumpers for the desired function using **Table 1**.

4 LOCATE the DIP-switches as indicated in **Diagram 30**.

5 Select the desired Magnalock functions using **Table 2** and the desired delay-egress functions using **Table 3**.

Diagram 24 Location of J1 and J4 terminals

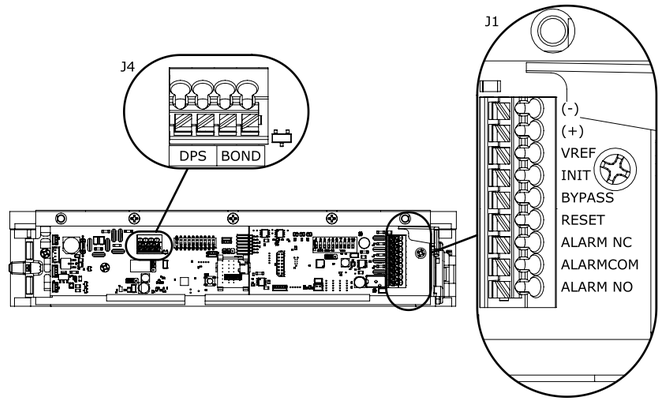


Diagram 25 Terminal pin-out diagram

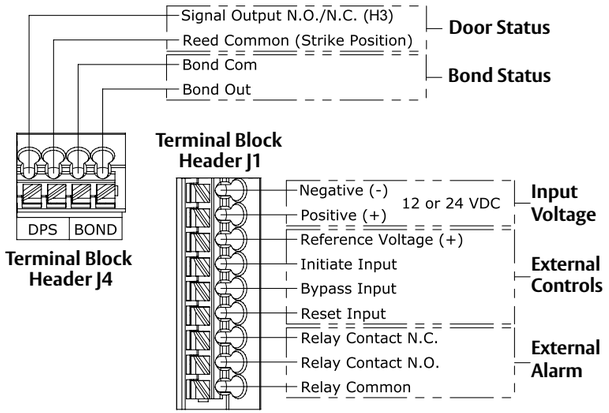


Diagram 26 Typical system wiring

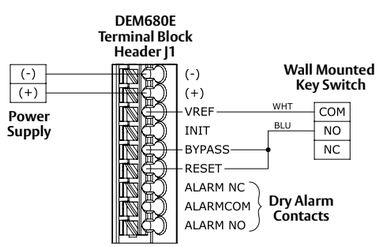


Diagram 27 Typical system wiring with external initiate device

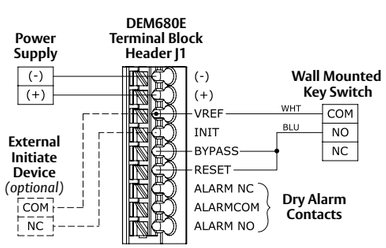
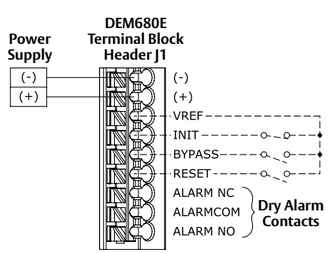


Diagram 28 Typical system wiring with external controls



"(+) and "VREF" Terminals are internally bussed to provide reference (+) voltage external control use.

Diagram 29 Jumper Locations

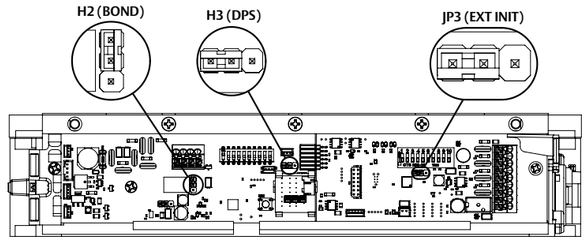


Table 1 Jumper Settings

Jumpers	Position		Selection	Function/Description	Factory Default
H2 (BOND)	1 2 3	1-2	**Normally closed (NC)**	Normally closed circuit – opens when BOND registers secure.	Normally closed
	1 2 3	2-3	Normally open (NO)	Normally open circuit – closes when BOND registers secure.	
H3 (DPS)	1 2 3	1-2	**Normally open (NO)**	Normally open circuit – closes when door opens.	Normally open
	1 2 3	2-3	Normally closed (NC)	Normally closed circuit – opens when door opens.	
JP3 (EXT INIT)	1 2 3	1-2	**Disabled**	When enabled, allows unit to be initiated from an external source. (J1, Terminal 4)	Disabled
	1 2 3	2-3	Enabled		

Diagram 30 DIP-switch Locations

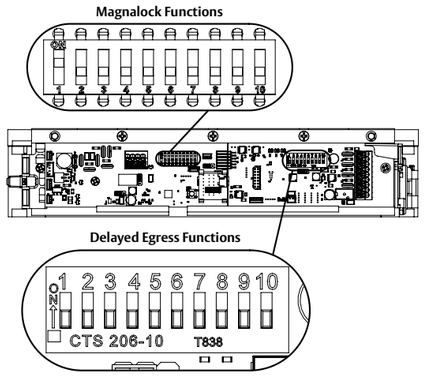


Table 2 Magnalock DIP-switch selection and function

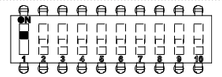
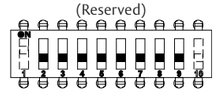
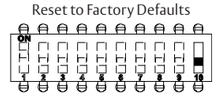
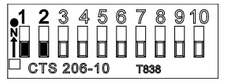
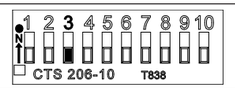
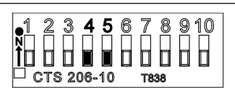
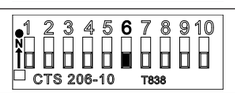
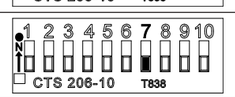
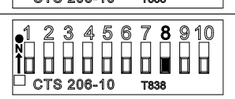
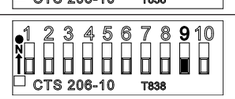
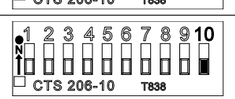
Magnalock function DIP-switches	Position	Selection	Function/Description	Factory Default
LED enable	SW 1 ON	LED enabled	When enabled, LEDs display lock status.	**ON**
	SW 1 OFF	LED disabled		
(Reserved) 	SW 2 – SW 9	N/A	Not used.	**OFF**
Reset to Factory Defaults 	**SW 10 OFF**	**Reset disabled**	When enabled, restores Magnalock firmware to factory settings.	**OFF**
	SW 10 ON	Reset enabled		

Table 3 Delayed Egress DIP-switch selection and function

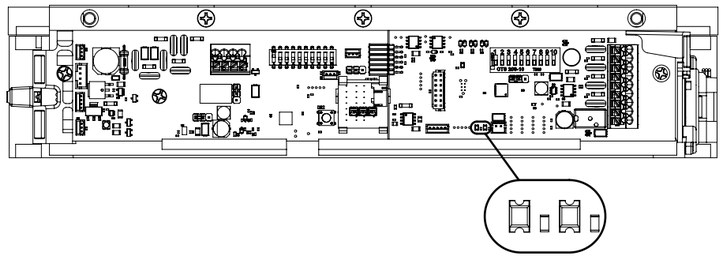
	Delayed Egress Function Dip-Switches	Position	Selection	Function/Description	Factory Default
Nuisance Delay		**SW 1 OFF / SW 2 OFF**	**0 seconds**	Time that the door must be pushed before triggering the irrevocable alarm cycle. Set the desired nuisance delay in seconds.	0 seconds
		SW 1 ON / SW 2 OFF	1 seconds		
		SW 1 OFF / SW 2 ON	2 seconds		
		SW 1 ON / SW 2 ON	3 seconds		
Exit Delay		**SW 3 OFF**	**15 seconds**	Set the desired irrevocable alarm interval in seconds. WARNING: a 30 second delay must be approved by local code enforcement.	15 seconds
		SW 3 ON	30 seconds		
Bypass Time		**SW 4 OFF / SW 5 OFF**	**0 seconds**	The expected time for a door closure after manually bypassing (unlocking) the system to exit or enter. Set the desired bypass time in seconds.	0 seconds
		SW 4 ON / SW 5 OFF	15 seconds		
		SW 4 OFF / SW 5 ON	30 seconds		
		SW 4 ON / SW 5 ON	45 seconds		
Post Alarm Reminder		**SW 6 OFF**	**Disabled**	When enabled, provides audible indication after an alarm event.	Disabled
		SW 6 ON	Enabled		
Bypass Expiration Alarm		**SW 7 OFF**	**Disabled**	When enabled, provides audible indication when the bypass time has been exceeded.	Disabled
		SW 7 ON	Enabled		
Manual/Delayed Relock		**SW 8 OFF**	**Disabled**	When enabled, the system automatically relocks 30 seconds after an irrevocable alarm cycle.	Disabled
		SW 8 ON	Enabled		
Unlocked at Startup		**SW 9 OFF**	**Disabled**	When enabled, system starts in the unlocked state.	Disabled
		SW 9 ON	Enabled		
No Irrevocable Alarm After Bypass Expiration		**SW 10 OFF**	**Disabled**	When enabled, prevents irrevocable alarm after bypass expiration. If SW7 is on, bypass expiration alarm repeats. If SW7 is off, LED strobe flashes.	Disabled
		SW 10 ON	Enabled		

Delayed Egress status LEDs

The two LEDs shown display the following Delayed Egress states.

RED	GREEN	STATE
OFF	OFF	Unlocked
OFF	ON	Bypass
ON	OFF	Egress Alarm
ON	ON	Locked

Diagram 31 LED location



Documenting the configuration settings

1 Indicate the settings on the adhesive-backed labels included with the Magnalock (see **Diagram 32**).

2 Complete the labels and affix them to the inside of the Magnalock cover (see **Diagram 33**).

Diagram 32 System settings

49-00227_5

Magnalock Settings (Factory Default)

DIP Switch 1 - LED Enable	ON=ENABLED	OFF=DISABLED
DIP Switches 2 thru 9 - (Reserved)	OFF=N/A	ON=N/A
DIP Switch 10 - (Reset Factory Defaults)	OFF=DISABLED	ON=ENABLED
STATUS OUTPUT SIGNAL CONTROL:		
Jumper H2 - BondSTAT Mode Select	1-2=NC	2-3=NO
Jumper H3 - Door Position Mode Select	1-2=NO	2-3=NC
DELAYED EGRESS EXTERNAL INITIATION:		
Jumper JP3 - External Initiation Mode Select	1-2=DISABLED	2-3=ENABLED

49-00228_3

Delayed Egress Settings (Factory Default)

DIP Switch 1 & 2 - Nuisance Delay (in seconds)	0 1	2 3
DIP Switch 3 - Exit Delay (in seconds)	OFF=15	ON=30
DIP Switch 4 & 5 - Bypass Time (in seconds)	0 15	30 45
DIP Switch 6 - Post Alarm Reminder	OFF=DISABLED	ON=ENABLED
DIP Switch 7 - Bypass Expiration Alarm	OFF=DISABLED	ON=ENABLED
DIP Switch 8 - Manual/Delayed Relock	OFF=DISABLED	ON=ENABLED
DIP Switch 9 - Unlocked at Startup	OFF=DISABLED	ON=ENABLED
DIP Switch 10 - No Irrevocable Alarm after Bypass Expiration	OFF=DISABLED	ON=ENABLED

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Behavior of Delayed Egress Magnalocks with regional settings

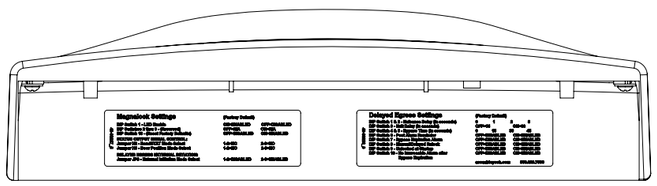
California

Upon power up, lock goes into an alarm state and requires a manual reset. Nuisance delay is settable to 0, 1, 2 or 3 seconds and the exit delay is fixed at 15 or 30 seconds. Bypass delay is settable to 0, 15, 30 or 45 seconds. A manual reset is required after a delayed egress event.

Chicago

Upon power up, lock goes into an alarm state and requires a manual reset. Nuisance delay is fixed at 1 second, the exit delay is fixed at 15 seconds, and the bypass delay is fixed at 0 seconds. A manual reset is required after a delayed egress event.

Diagram 33 Settings labels



Initial calibration

NOTE 1: If calibration does not proceed according to the instructions below, please see the troubleshooting section at the end of the manual.

NOTE 2: Initial calibration can be performed with a 12-V battery for installations in facilities that do not yet have commercially-available power.

NOTE 3: Access control systems may register DPS and/or BOND error conditions during the calibration sequence.

TECH TIP: For installation on a door without a door handle, a pull handle can be made from masking or other tape to pull the door closed for calibration.

The DEM680E performs an automatic calibration when the unit is initially powered up. This process only proceeds if the door is closed and the unit has received acceptable signals from the DPS and bond sensors.

PERFORM a manual calibration immediately following installation, if necessary.

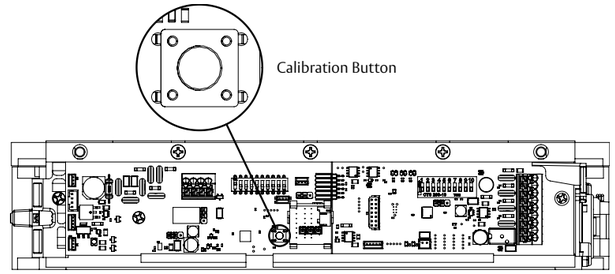
1 ENSURE that the door is closed.

2 APPLY power to the Magnalock.

3 PRESS AND RELEASE the calibration button (see **Diagram 34**).

4 VERIFY that the LED changes from red to amber to green. The unit is now calibrated.

Diagram 34 Calibration button



Reinstalling the cover

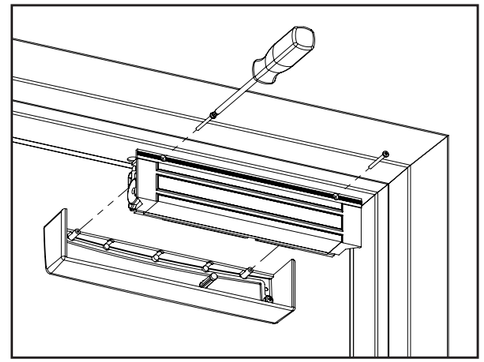
NOTE: After wiring, settings, and calibration have been performed, and the system is functioning properly, the cover may be reinstalled on the Magnalock.

1 PLACE the cover over the rear of the Magnalock

2 INSTALL the two (2) Phillips screws to secure the cover (see **Diagram 35**).

3 APPLY the provided NFPA label with the appropriate (15 or 30 second) delay designation to the door.

Diagram 35 Reinstalling the cover



MAGNALOCK OPERATIONAL TESTS

Test 1 – Verifying correct startup

The DEM680E should be calibrated with a non-zero nuisance delay setting.

1 **With the door closed**, the LED should be GREEN, indicating that it is active (see **Diagram 36**).

- If the LED is RED or AMBER, stop and consult the **Troubleshooting Guide** to correct.

Test 2 – Verifying door security

2 **With the door closed**, PUSH against the face of the door WITHOUT releasing the primary locking mechanism (e.g., an exit device or cylindrical/mortise door lock). The nuisance alarm should not sound if the door is adjusted properly (see **Diagram 37**).

- **If the nuisance alarm sounds**, there is too much door movement. The primary locking mechanism must be adjusted to reduce excessive door travel. Excessive movement will cause the DEM680E to go into alarm and unlock when the door is pulled from the unsecure side. Make necessary corrections and repeat Test 2.

Test 3 – Verify nuisance alarm function

3 UNLOCK the primary locking mechanism (push bar or turn handle) and attempt to push the door open. The nuisance alarm should sound (see **Diagram 38**). Close the door before the nuisance interval expires to prevent the alarm state.

- **If the nuisance alarm <u>does not</u> sound**, the strike assembly screw may have been overtightened. Overtightening prevents the door from traveling past the nuisance threshold. Refer to "No Alarm" in the **Troubleshooting Guide** and **Diagram 14** which shows proper adjustment of the strike assembly screw.

Test 4 – Verify countdown alarm & free egress

4 UNLOCK the primary locking mechanism and attempt to open the door. The nuisance alarm should sound along with a flashing strobe. Maintain pressure on the door until the alarm becomes steady; the DEM680E is now in alarm state. The door should open in 15 or 30 seconds, depending on the exit and nuisance delay settings. At the end of the alarm interval, the LED should turn red, and the door should freely open. (see **Diagram 39**).

*After testing, close the door and perform a reset. After reset, the strobe should turn off and the LED should change from red to green. VERIFICATION IS COMPLETE.

Diagram 36 Indicator light displays

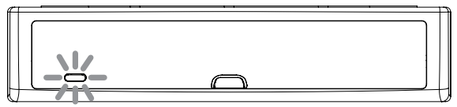


Diagram 37

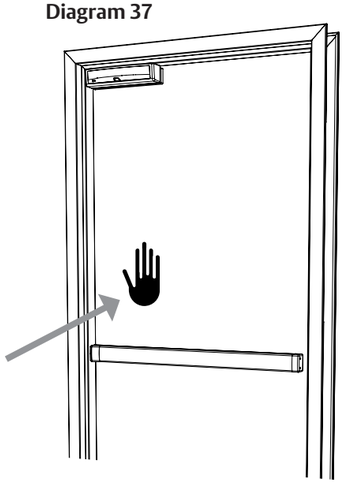


Diagram 38

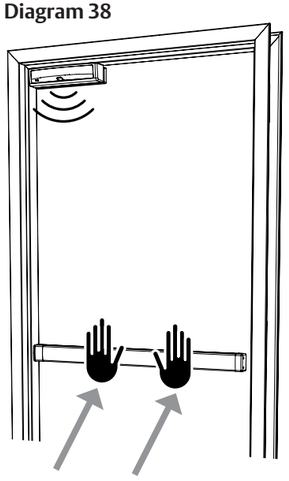
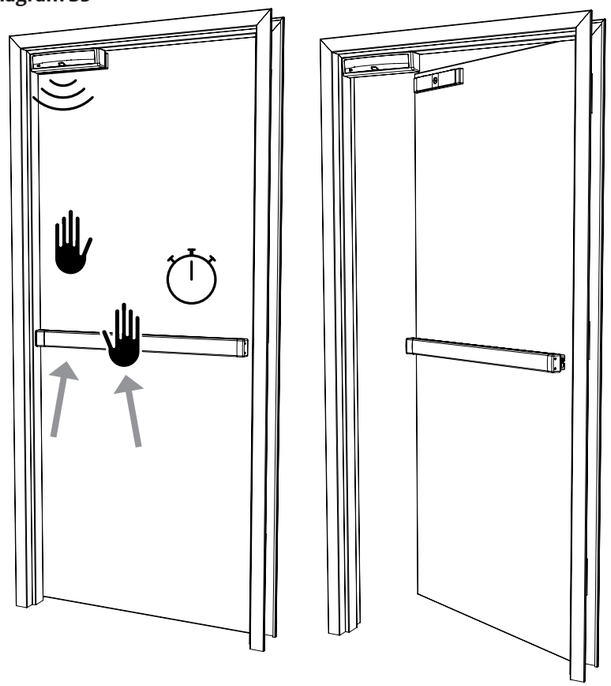


Diagram 39



Troubleshooting Guide

TROUBLE INDICATOR	POSSIBLE CAUSES	POSSIBLE SOLUTIONS
Solid RED	• Two bond sensor failures* • Supply voltage < 8.5 VDC • Two bond sensor failures*	• Ensure bond sensor connectors are properly seated • Check power supply voltage • Ensure bond connectors are properly seated
Solid RED with Audible Alarm	• Open door • DPS failure* • Attempting to calibrate with two bond sensor failures* • Strike tray installed upside down • DPS magnet missing from strike tray	• Close door • Ensure DPS connector is properly seated • Ensure bond connectors are properly seated • Ensure that the strike tray is mounted with alignment tabs facing up • Check strike tray for damage, replace if needed
Solid AMBER	• Door sag • Obstructed strike/magnet face • Supply voltage < 10.8 VDC • Single bond sensor failure* • Magnet disconnected or magnet cable wire broken • Verify that the strike label has been removed	• Recalibrate • Check for obstructions between strike and magnet • Clean face of strike and magnet. Recalibrate • Check power supply voltage • Ensure bond connectors are properly seated • Make sure magnet connector is properly seated or repair magnet cable wire
Flashing RED	• Factory reset	• Ensure SW10 is in the OFF position
LED off	• LED disabled by SW1 • Supply voltage < 5 VDC	• Turn SW1 to the ON position • Check power supply
Intermittent alarm No alarm	• Over-tightened strike screw	• Unscrew strike screw 1/2 turn at a time until alarm sound is constant when door is pushed (Recalibrate lock after each adjustment and repeat *Install Verification*)

* Failure means that the circut cannot detect a signal from the sensor. Check that the sensor connectors are properly seated and inspect sensor wires for damage. Call Technical Support if replacement is needed.

Installing the NFPA label

NOTE: Each DEM680E comes with an NFPA exit delay door label as required by fire code.

1 FOLLOW the included application instructions to apply the lettering to a door.

Restoring factory default settings

1 DISCONNECT power from the Magnalock.

2 REMOVE the cover using a Phillips screwdriver.

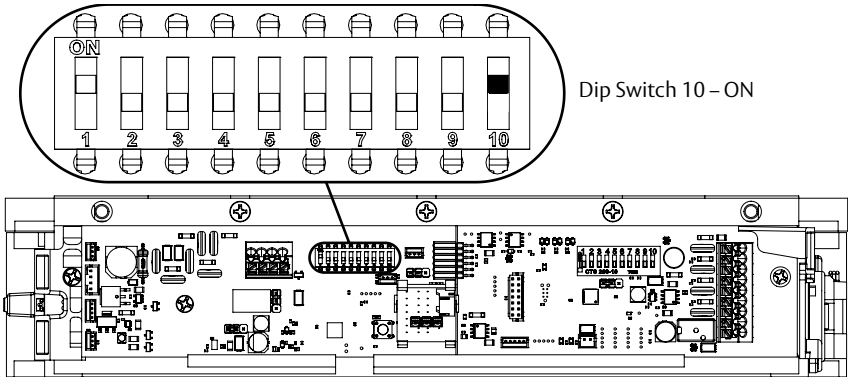
3 SET DIP-switch 10 (SW 10) to "ON" (see **Diagram 40**).

NOTE: When power is applied with SW 10 in the ON position, previous calibration settings are erased. The LED will continue to flash red until SW 10 is switched OFF.

4 APPLY power to the Magnalock and verify that the LED flashes red.

5 SET SW 10 to OFF. The unit should auto-calibrate. If the unit fails to calibrate see **Troubleshooting Guide**, or contact technical support.

Diagram 40 Setting DIP-switch 10 to ON



Warranty

For information on warranty coverage and replacement options, please visit **securitron.com/warranty**

For easy 3D instructions, download the BILT mobile app

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