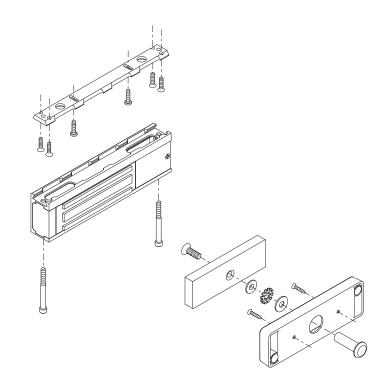
M400 Series Electromagnetic Locks



Installation Instructions for Single Locks M420, M450, M490



FEATURES

Automatic Voltage Selection (AVS)

Magnet immediately detects 12VDC or 24VDC when power is connected.

Anti-Tamper Switch (ATS)

An indication is provided should the magnet cover become unsecured from lock.

Magnetic Bond Sensor (MBS)

Detects proper bond between magnet and armature. It can be monitored remotely and locally with an LED.

LED

Provides local indication of MBS status.

Door Position Switch (DPS)

Indicates whether door is open or closed. this feature is used in conjunction with the MBS.

Relock Time Delay (RTD)

Relock time can be changed. Range is 1 - 30 seconds.

MODELS

M420 (Traffic Control)

UL1034 and 10C/500lb and 3hr rating

M450 (High Security) UL1034 and 10C/1000lb and 3hr rating

M490 (Max Security) UL1034 and 10C/1500lb and 3hr rating

TRIMS

Basic

Auto Voltage Selection (AVS) for 12 or 24VDC

Plus

Basic features + Door Position Switch (DPS), Magnetic Bond Sensor (MBS), Relocking Time Delay (RTD), LED Status Indicator (LED) and Anti-Tamper Switch (ATS)

UL Requirements:

- Units shall not impair operation of panic hardware mounted on door.
- Units shall not impair intended operation of an emergency exit.
 Units/Models are intended to be connected to UL Listed Equipment, not
- intended for Burglar or Fire Alarm Initiating or Indicating Devices.
- Ambient Conditions "For Indoor Use Only"

This device complies with part 15 of FCC rules.

- Operation is subject to following two conditions:
- 1. This device may not cause harmful interference.
- This device must accept any interference received, including any interference that may cause undesired operation. Changes or modifications not expressly approved by party responsible for compliance could void user's authority to operate equipment.

ELECTRICAL SPECIFICATIONS

Model	Amps (12VDC) Per Lock	Amps (24VDC) Per Lock	Holding Force (Ibs) Per Coil
M420	0.750	0.380	500
M450	0.750	0.380	1000
M490	0.650	0.350	1500

LOCK INSTALLATION

1 PREPARE FOR INSTALLATION

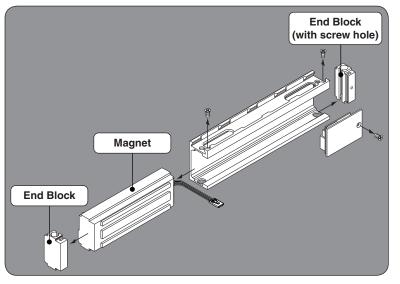
1a Determine Proper Magnet Orientation Magnet should be placed opposite of door hinges.

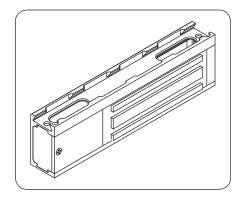
LHR Door	Shown from Exterior	RHR Door - Shown from Exterior	
Wiring Cov	/er Magnet	Magnet Wiring Cover	

1b

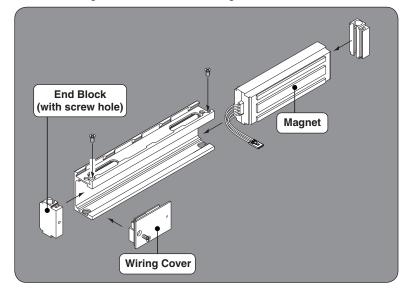
Reorient Magnet (if necessary)

• Remove screws, wiring cover and end blocks.





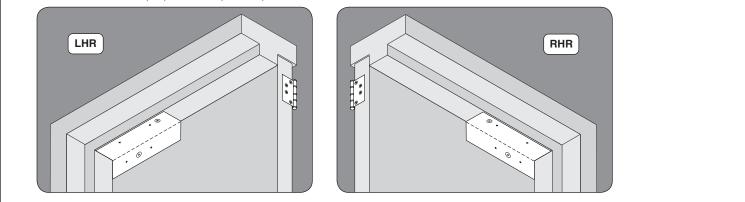
• Rotate magnet, end blocks and wiring cover as shown, then reassemble.



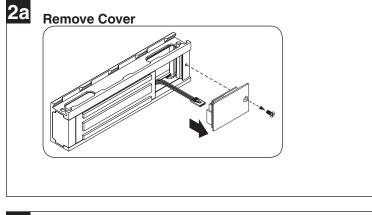
Place Template and Mark Holes

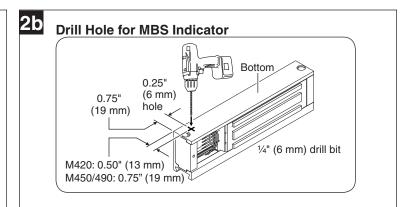
1c

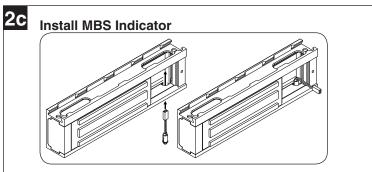
- Place template on top corner, opposite of hinges.
- Mark holes and prepare them per template.



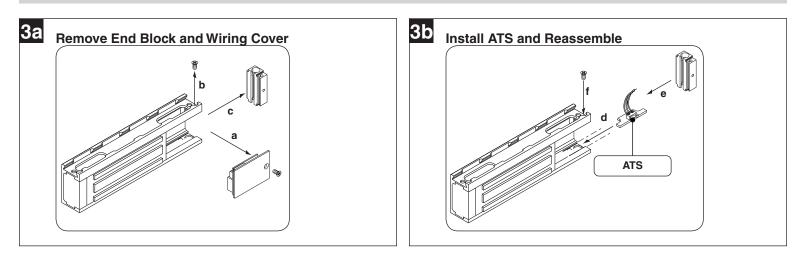
2 INSTALL MBS INDICATOR (OPTIONAL, PLUS MODELS ONLY)



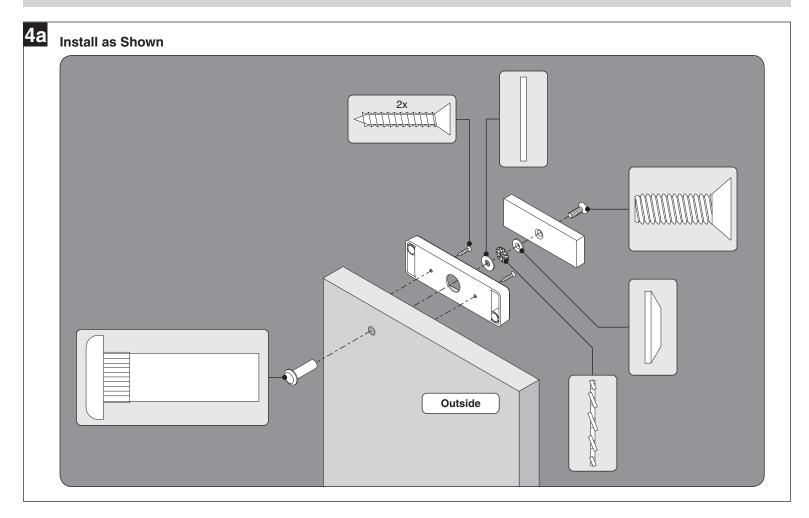




3 INSTALL ATS (OPTIONAL, PLUS MODELS ONLY)



4 ATTACH ARMATURE TO DOOR

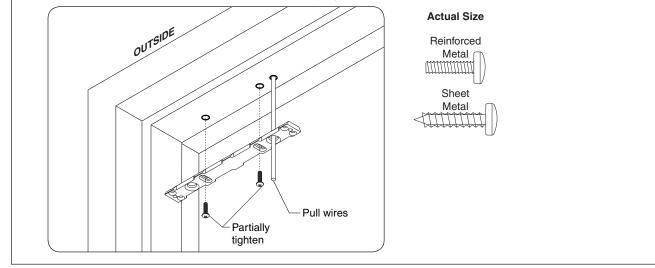


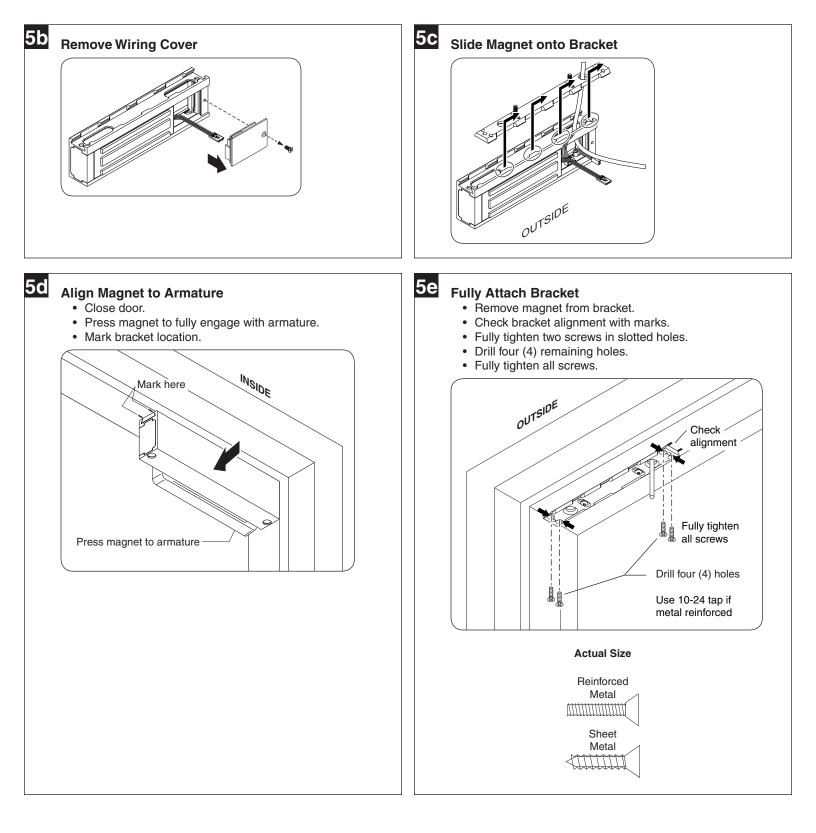
5 INSTALL MOUNTING BRACKET INTO FRAME



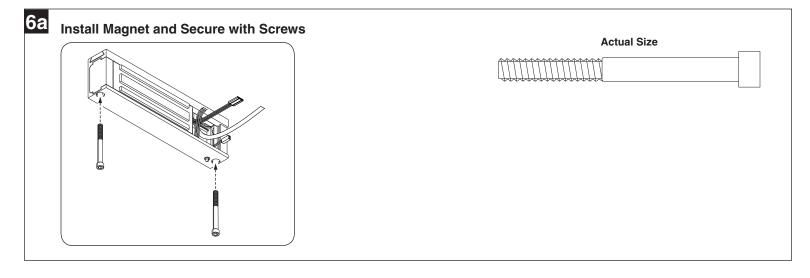
Attach Mounting Bracket Temporarily

Install two middle screws into slots and partially tighten.

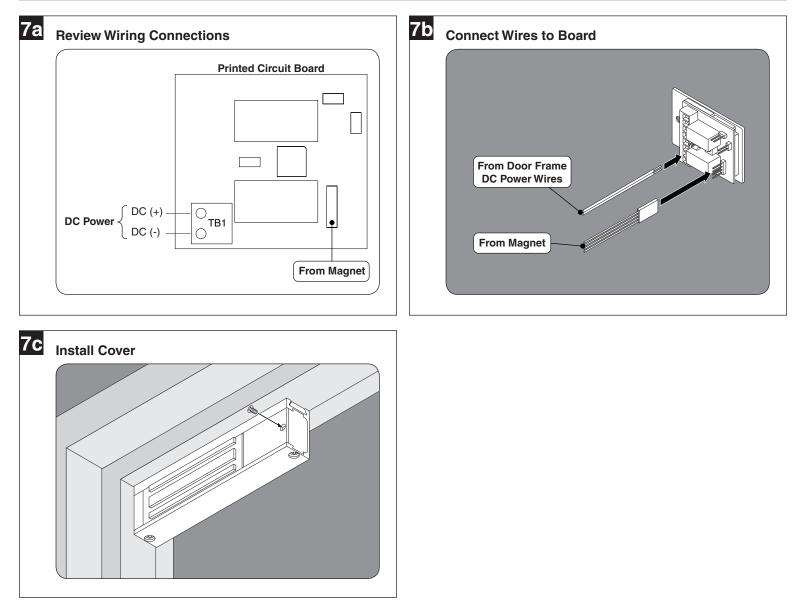


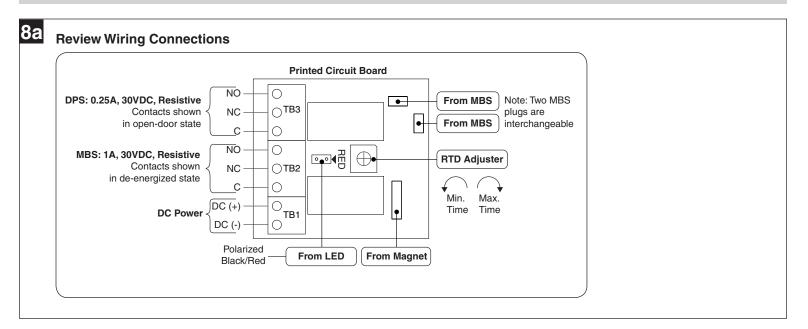


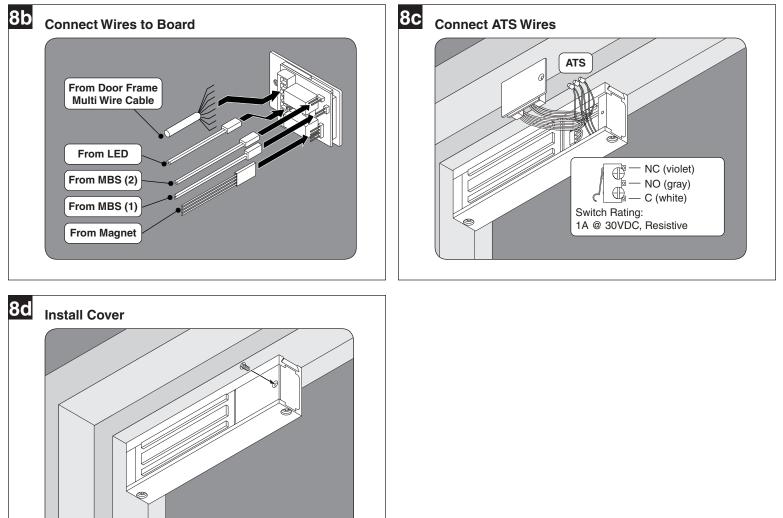
6 INSTALL LOCK



7 CONNECT WIRING TO BOARD (STANDARD MODEL)









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