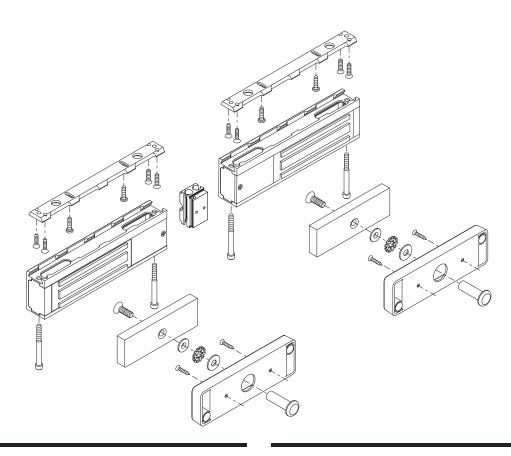
# M400 Series Electromagnetic Locks



Installation Instructions for Double Locks M422, M452, M492



## 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.

#### 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"

## MODELS

## M422 (Traffic Control)

UL1034 and 10C/500lb and 3hr rating

## M452 (High Security)

UL1034 and 10C/1000lb and 3hr rating

#### M492 (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)

#### 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**

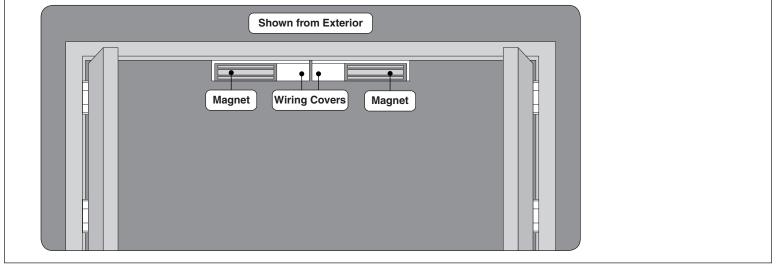
Model	Amps (12VDC) Per Lock	Amps (24VDC) Per Lock	Holding Force (Ibs) Per Coil
M422	1.500	0.760	500
M452	1.500	0.760	1000
M492	1.300	0.700	1500

## LOCK INSTALLATION

## **1** PREPARE FOR INSTALLATION

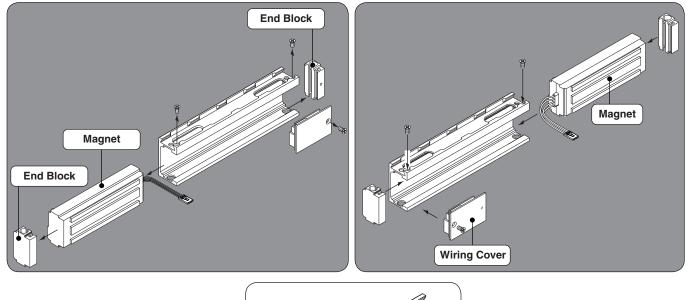
# 1a Lock Orientation

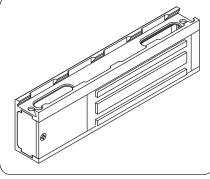
• Locks should be installed with wiring covers in the middle, so the magnet in one of the locks must be reoriented.



# 1b Reorient Magnet in One Lock

- Remove screws, wiring cover and end blocks.
- Rotate magnet, end blocks and wiring cover as shown, then reassemble.

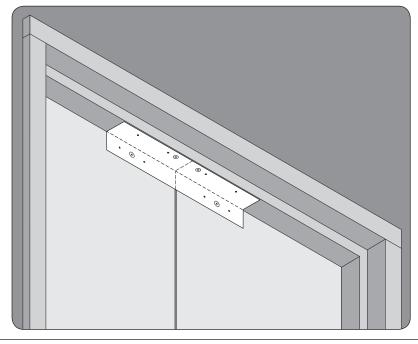




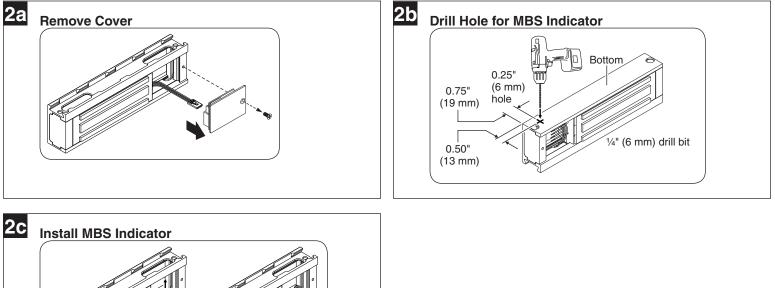


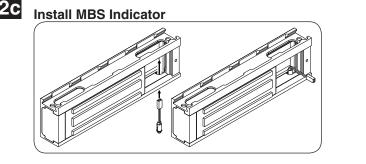
## Place Template and Mark Holes

- Place template on top centerline of doors.Mark holes and prepare them per template.

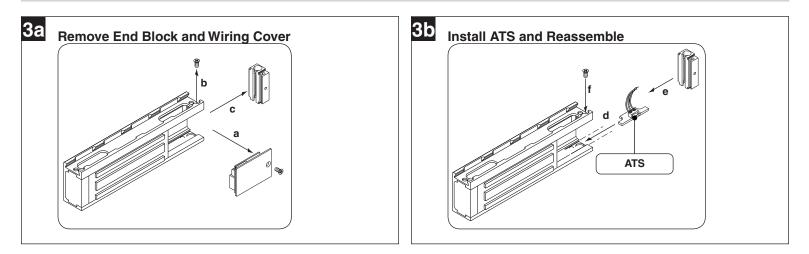


# **2** INSTALL MBS INDICATOR (OPTIONAL, PLUS MODELS ONLY)

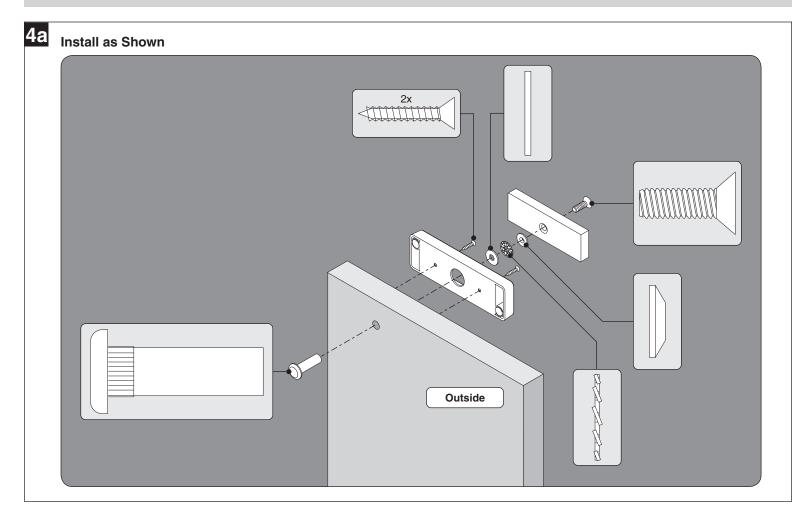




# **3** INSTALL ATS (PLUS MODELS ONLY)



## **4** ATTACH ARMATURES TO DOORS



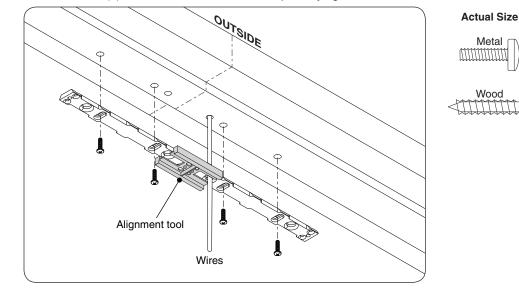
## **5** INSTALL MOUNTING BRACKETS INTO FRAME

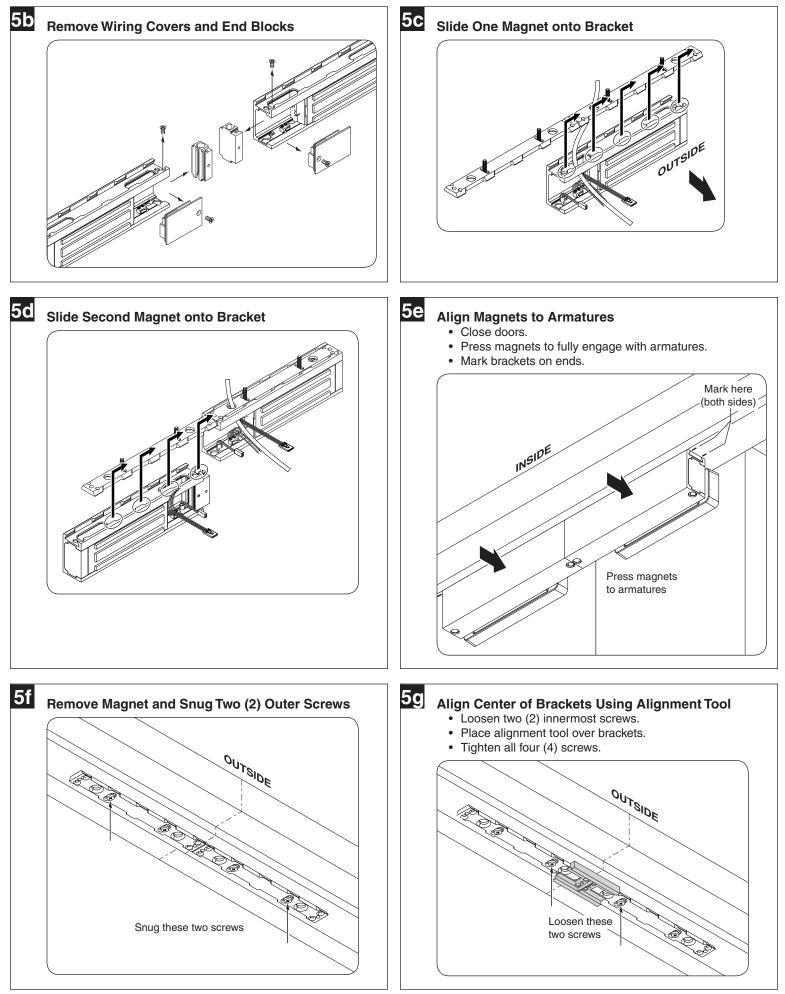
## Attach Mounting Brackets Temporarily

• Install alignment tool onto brackets.

5a

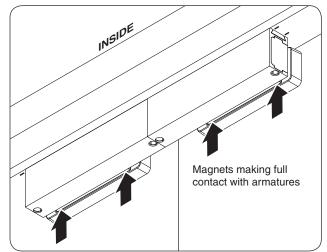
• Install four (4) screws into slotted holes and partially tighten.

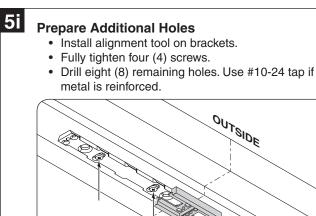




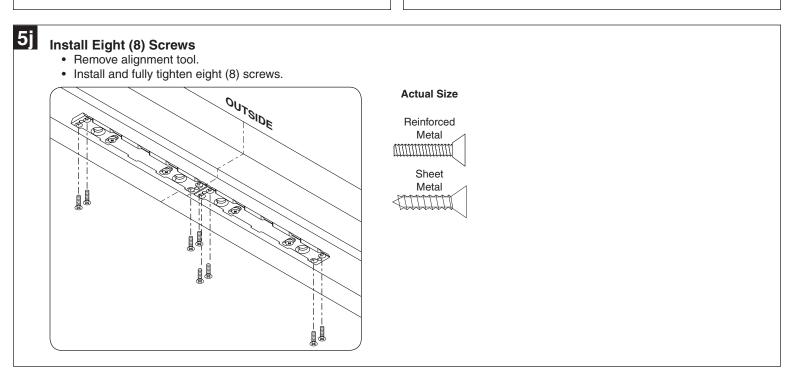
## 5h Verify magnet Adjustment

- Close door and verify magnets make full contact with armatures.
- If alignment is satisfactory, go to step 5i.
- If further adjustment is required, repeat steps 5e through 5h.

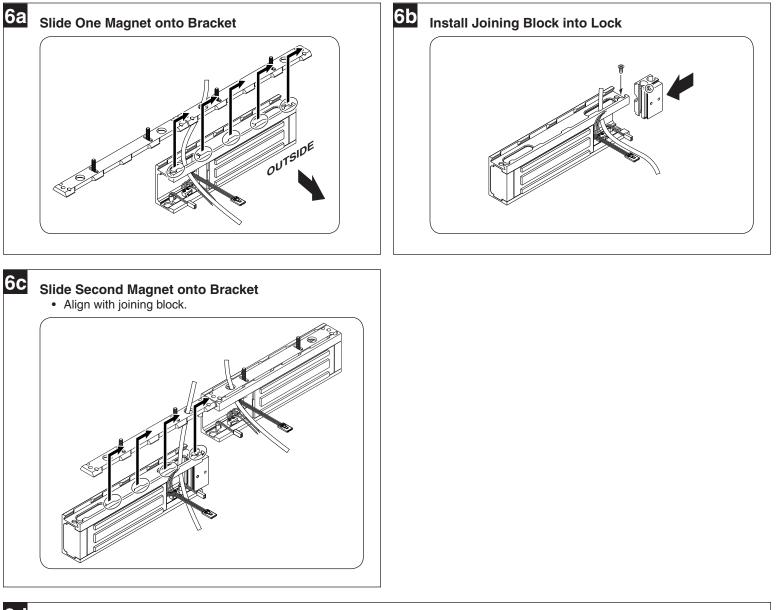




Fully tighten four screws

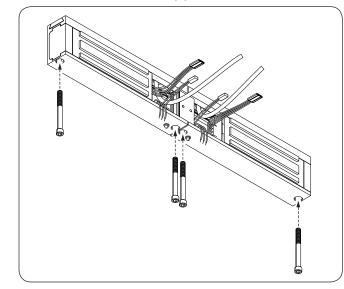


## **6** ATTACH MAGNETS TO MOUNTING BRACKETS



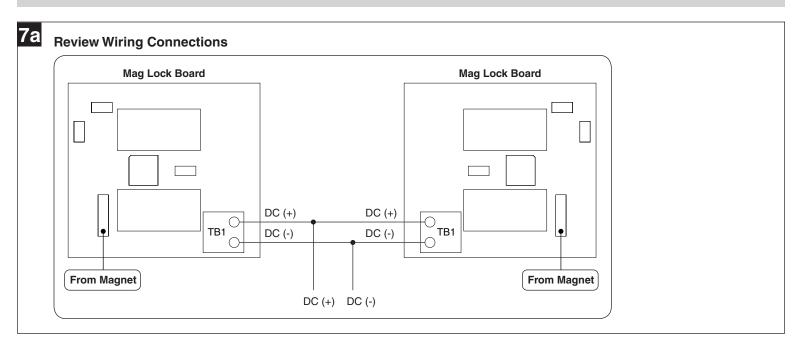
## 6d

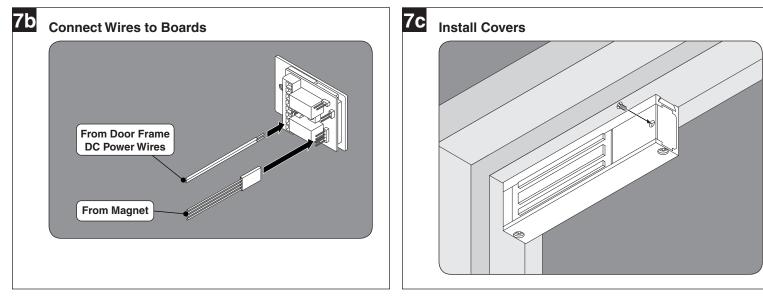
## Secure Locks with Four (4) Screws



Actual Size	

# 7 CONNECT WIRING TO BOARD (STANDARD MODEL)

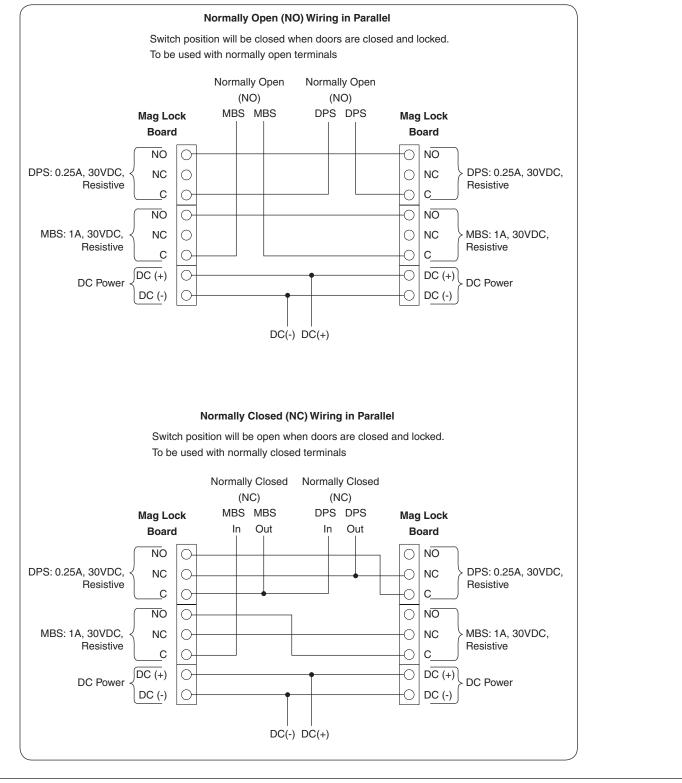


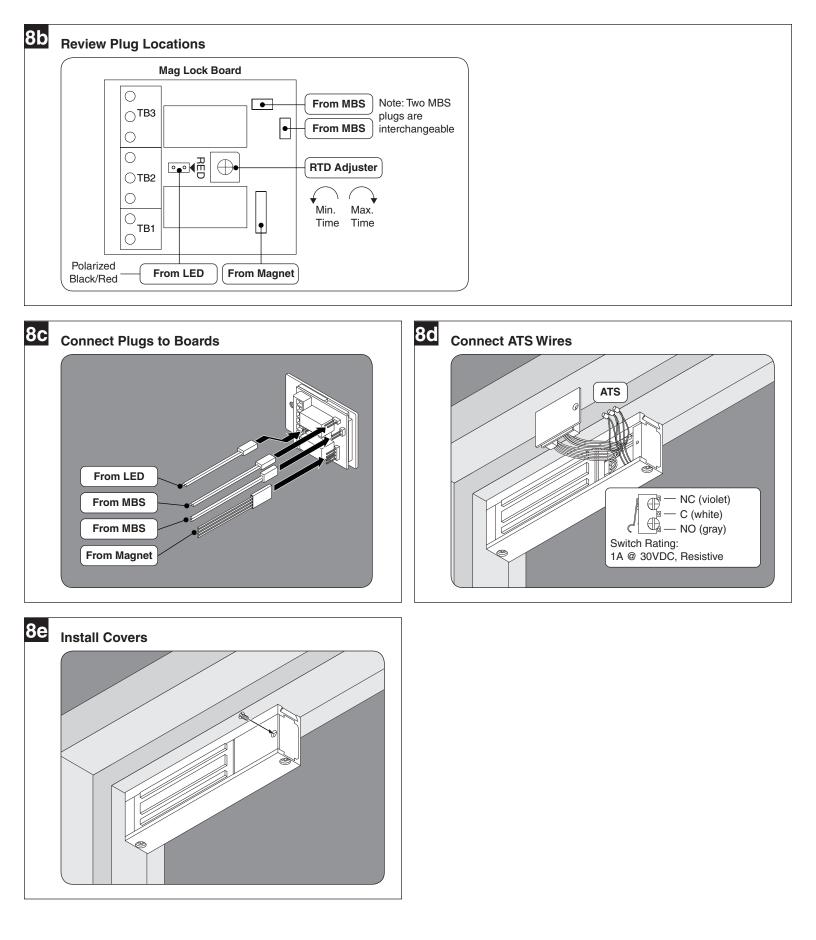


#### **Connect Outside Wires to Boards**

• Choose between NO or NC.

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