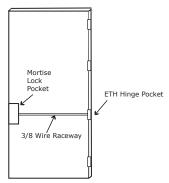
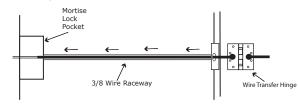
# Installation Instructions *ML170/180/182/1480/1485*



**STEP 1**: The door must be machined with a 3/8" wire raceway, mortise lock pocket & prepped for a energy transfer hinge. **Make sure the mortise pocket is free of debris.** 

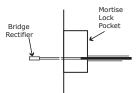


**STEP 2**: Run the wires from the ETH hinge through the 3/8" raceway starting at the ETH hinge & exiting into the mortise pocket.

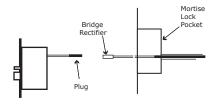


**STEP 3**: Screw the ETH hinge to the door. At this time **DO NOT** connect the hinge wires on the jamb side to the wires coming from the power supply.

**STEP 4**: Connect the wires exiting the mortise pocket to the Bridge Rectifier (included).



**STEP 5**: Connect the Bridge Rectifier to the plug exiting the mortise chassis.



**STEP 6**: Carefully slip the connected mortise lock chassis into the mortise pocket paying close attention not to pinch any wires

**STEP 7**: Mount the chassis per manufacturer's instructions.

**STEP 8**: Connect the wires from the power supply at the ETH hinge on the jamb side. Connect the hinge to the jamb.

## **LEGEND OF TERMS**

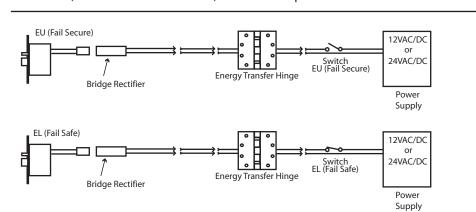
**EU**: (Fail Secure) When power is applied, the outside trim will unlock. When power is removed, the outside trim is locked.

**EL**: (Fail Safe) When power is applied, the outside trim will lock. When power is removed, the outside trim is unlocked.

**REX**: (Request to Exit Switch) Monitors the inside handle.

**DPS**: (Door Position Switch) Monitors the door position via the anti pick (Deadlatch).

**LBM**: (Latchbolt Monitor Switch) Monitors the position of latchbolt.



## **ELECTRICAL SPECIFICATIONS**

#### **SOLENOIDS:**

<b>VOLTS</b>	<b>CURRENT</b>	<b>COIL RESISTANCE</b>
24VAC/DC	350mA	69 Ohms +/- 10%
12VAC/DC	700mA	18 Ohms +/- 10%

**SWITCHES: .**5A 24VAC/DC

**REX**: Green - Common (C)

Blue - Normally Open (NO) Gray - Normally Closed (NC)

LBM: Green/Black - Common (C)

Blue/Black - Normally Open (NO) Gray/Black - Normally Closed (NC)

**DPS**: Green/Red - Common (C)

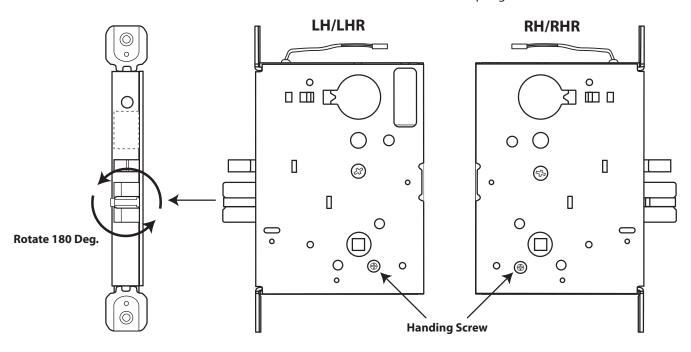
Blue/Red - Normally Open (NO) Gray/Red - Normally Closed (NC)

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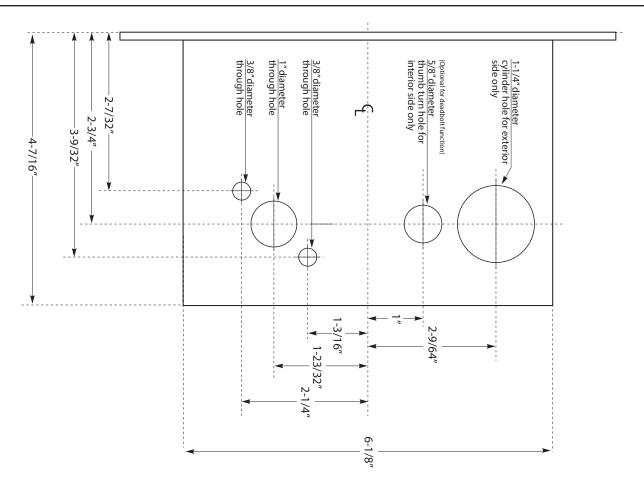
# **Handing Instructions for Mortise Locks**

**STEP 1**: Locate the handing screw. This screw is used to hand the handles. The Locking side is opposite the screw.

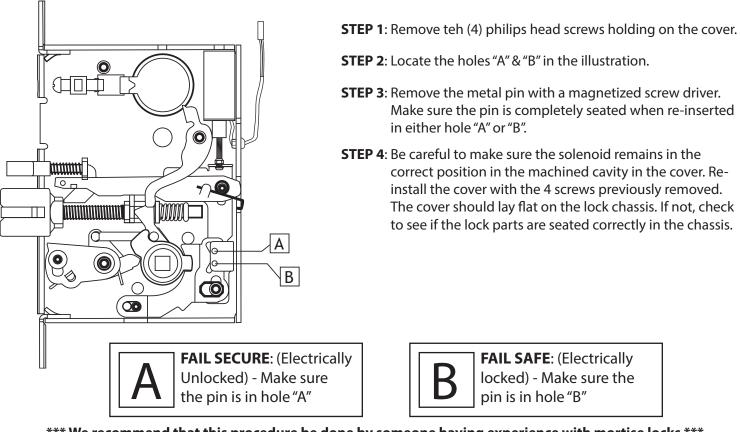
**STEP 2**: To hand the latchbolt, remove the faceplate. Pull the latchbolt out of the chassis and rotate, then release. The latchbolt is spring loaded and will return on it's own.



# **Template for ML170/180/182/1480/1485 Mortise Locks**



## Instructions To Set Function Fail Safe or Fail Secure for ALL ML1 Locks



\*\*\* We recommend that this procedure be done by someone having experience with mortise locks \*\*\*