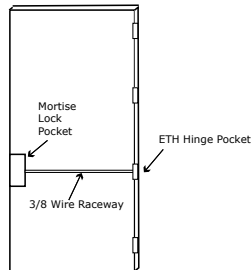
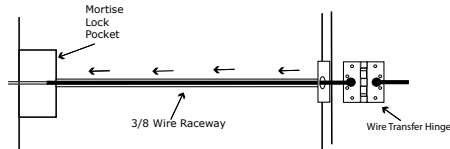


STEP 1: The door must be machined with a 3/8" wire raceway, mortise lock pocket & prepped for an energy transfer hinge. **Make sure the mortise pocket is free of debris.**

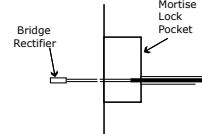


STEP 2: Run the wires from the ETH hinge through the 3/8" raceway starting at the ETH hinge & exiting into the mortise pocket.

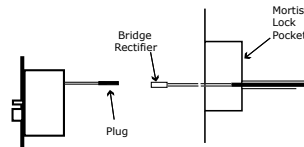


STEP 3: Screw the ETH hinge to the door. At this time **DO NOT** connect the hinge wires on the jamb side to the wires coming from the power supply.

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

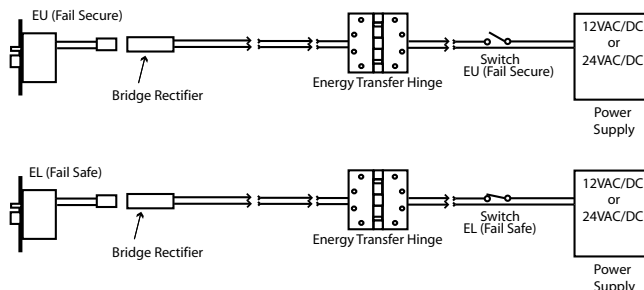
EU: (Fail Secure) When power is applied, the outside trim will unlock. When power is removed, the outside trim is locked.

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:

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

SWITCHES: 5A 124VAC/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)

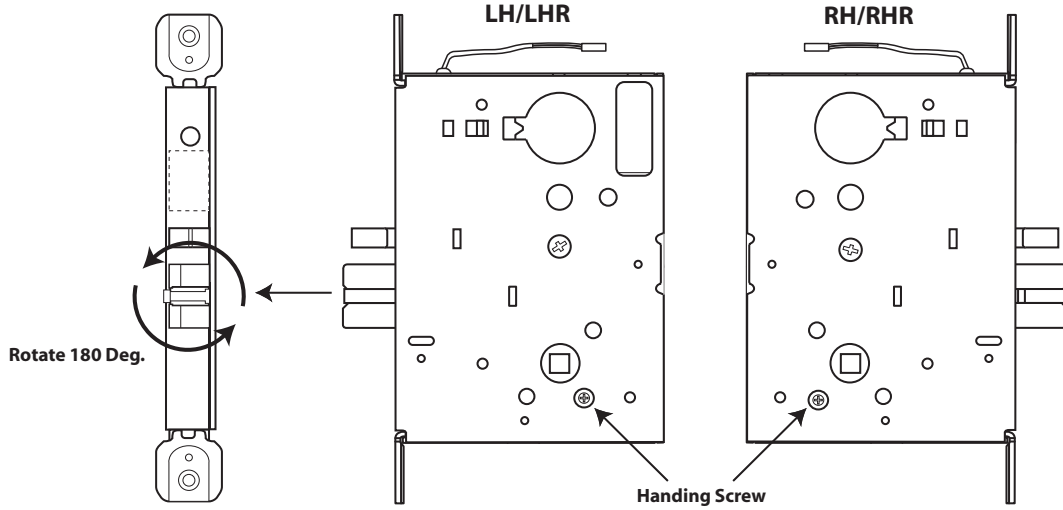
Not to Scale

The use of non-clutching impact drivers to install this hardware will automatically void the warranty.

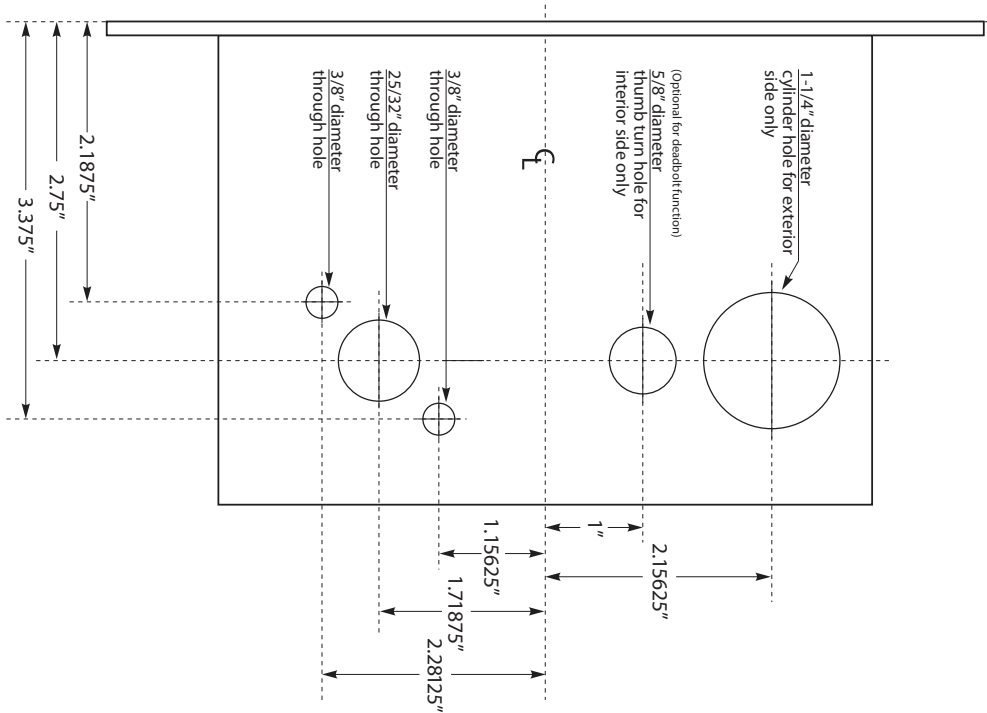
Handing Instructions for Mortise Locks

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

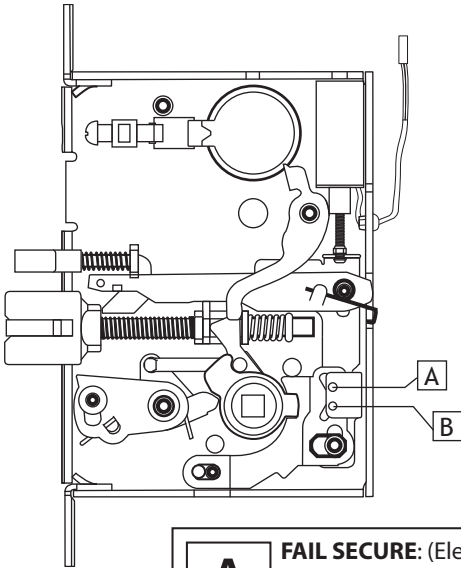
STEP 2: To hand the latchbolt, remove the faceplate. Pull the latchbolt out of the chassis and rotate, then release. The latchbolt is spring loaded and will return on it's own.



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



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



STEP 1: Remove the (4) philips head screws holding on the cover.

STEP 2: Locate the holes "A" & "B" in the illustration.

STEP 3: Remove the metal pin with a magnetized screw driver. Make sure the pin is completely seated when re-inserted in either hole "A" or "B".

STEP 4: Be careful to make sure the solenoid remains in the correct position in the machined cavity in the cover. Re-install the cover with the 4 screws previously removed. The cover should lay flat on the lock chassis. If not, check to see if the lock parts are seated correctly in the chassis.

A

FAIL SECURE: (Electrically Unlocked) - Make sure the pin is in hole "A"

B

FAIL SAFE: (Electrically locked) - Make sure the pin is in hole "B"

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