Installation Instructions
ML70/80/82/480/485

COMMAND ACCESS
T E C H N O L O G I E S

Schlage Lock modified by Command Access Technologies

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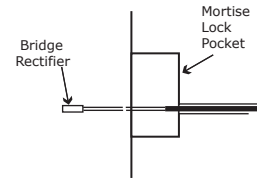
Mortise Lock Pocket
ETH Hinge Pocket
3/8 Wire Raceway
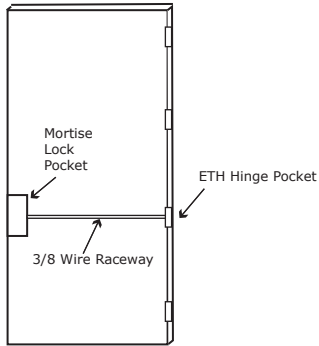
STEP 2: Run the wires from the ETH hinge through the 3/8" raceway starting at the ETH hinge & exiting into the mortise pocket.

Mortise Lock Pocket
3/8 Wire Raceway
Wire Transfer Hinge
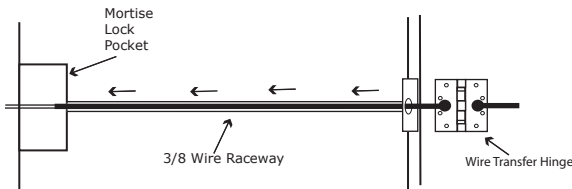
STEP 3: Screw the ETH hinge to the door. At this time **DO NOT** connect the hinge wires on the jamb side to the wires coming from the power supply.

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

Mortise Lock Pocket
Bridge Rectifier

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

Mortise Lock Pocket
Bridge Rectifier
Plug
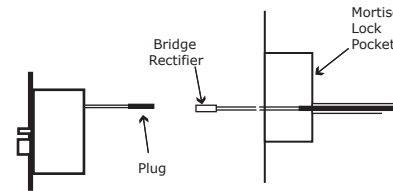
STEP 6: Carefully slip the connected mortise lock chassis into the mortise pocket paying close attention not to pinch any wires.

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.

* Not Available in all locks

EU (Fail Secure)
Bridge Rectifier
Energy Transfer Hinge
Switch EU (Fail Secure)
12VAC/DC or 24VAC/DC Power Supply

EL (Fail Safe)
Bridge Rectifier
Energy Transfer Hinge
Switch EL (Fail Safe)
12VAC/DC or 24VAC/DC Power Supply

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)

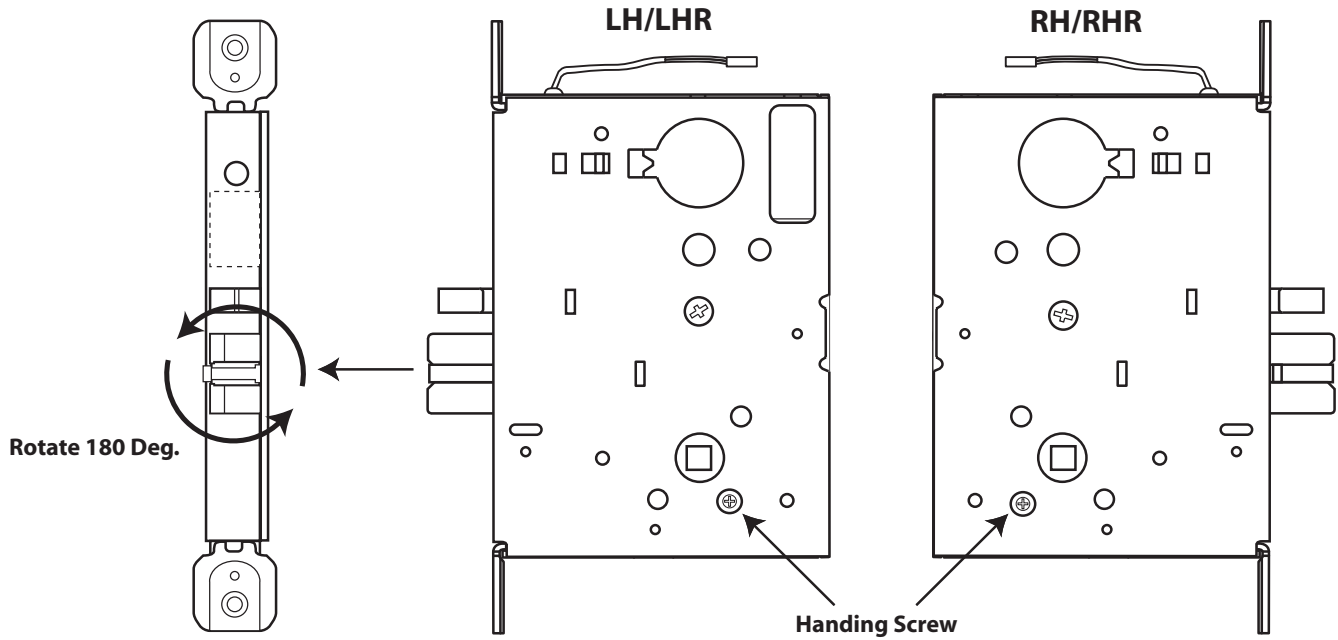**DPS**: Green/Red - Common (C)
Blue/Red - Normally Open (NO)
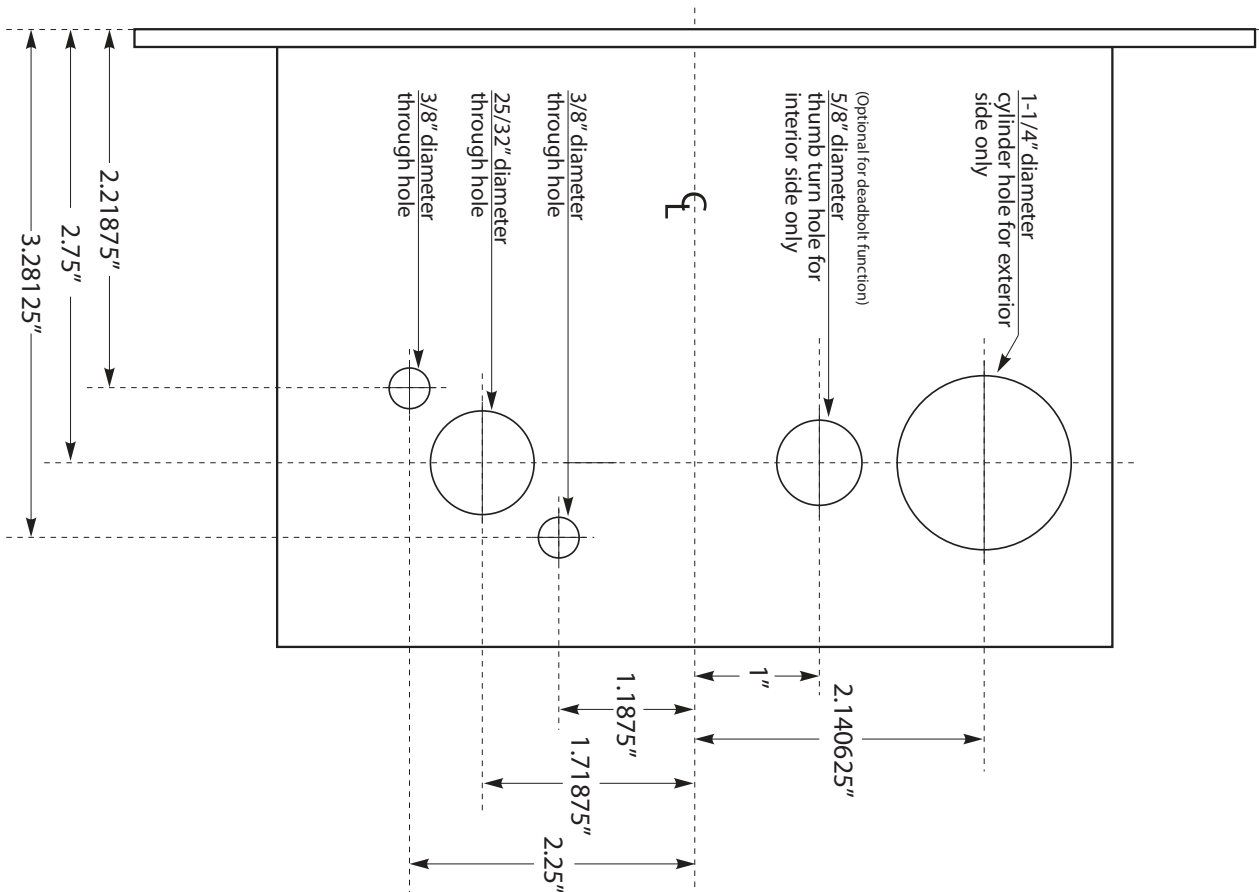Gray/Red - Normally Closed (NC)
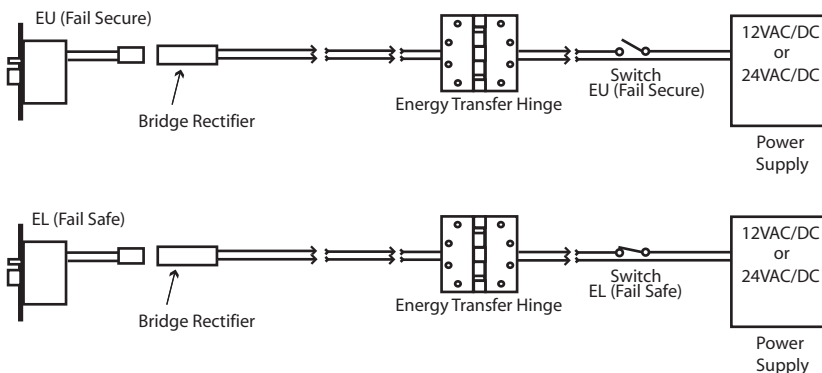
Handing Instructions for ML70/80/82/480/485 Mortise Locks

STEP 1: Locate the handing screw. This screw is used to hand the handles. The Locking side is opposite the screw.
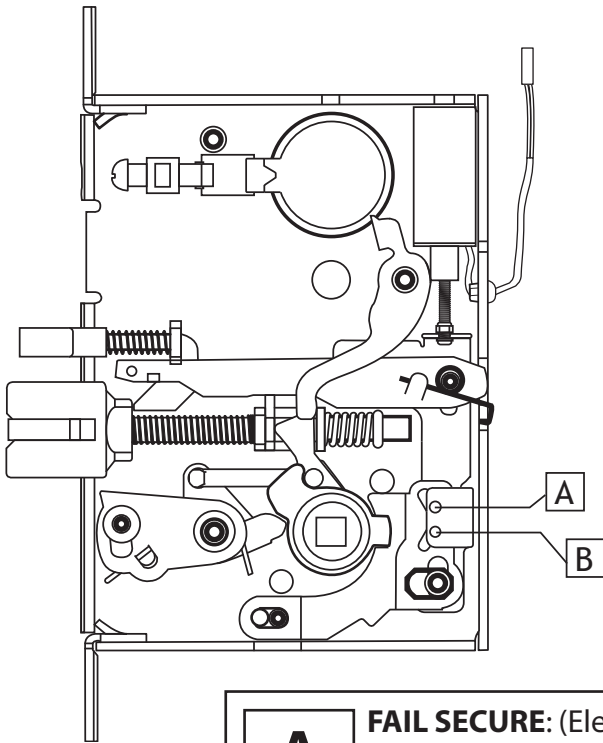
STEP 2: To hand the latchbolt, remove the faceplate. Pull the latchbolt out of the chassis and rotate, then release. The latchbolt is spring loaded and will return on it's own.

LH/LHR

RH/RHR

Rotate 180 Deg.

Handing Screw

Template for ML70/80/82/480/485 Mortise Locks

3/8" diameter through hole

25/32" diameter through hole

3/8" diameter through hole

(Optional for deadbolt function)
5/8" diameter thumb turn hole for interior side only

1-1/4" diameter cylinder hole for exterior side only

2.21875"

2.75"

3.28125"

1.1875"

1.71875"

2.25"

1"

2.140625"

Instructions To Set Function Fail Safe or Fail Secure for ALL ML70/80/82/480/485 Locks

STEP 1: Remove teh (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

B

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 ***