INSTALLATION INSTRUCTIONS
ML90/ML91/ML94/ML95
*Yale Lock modified by Command Access Technologies*

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

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.**
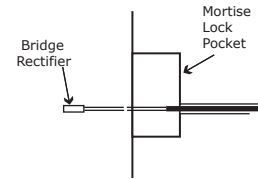

Mortise Lock Pocket
ETH Hinge Pocket
3/8 Wire Raceway
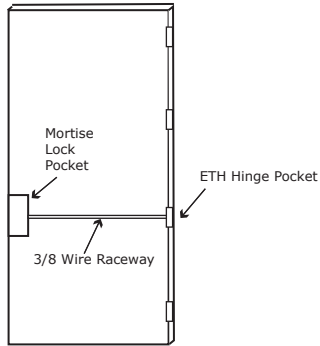
STEP 2: Run the wires from the ETH hinge through the 3/8" raceway starting at the ETH hinge & exiting into the mortise pocket.

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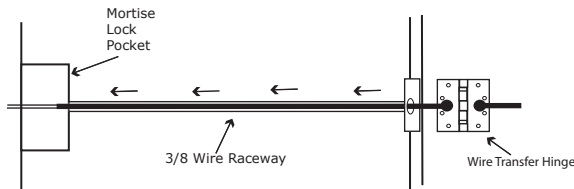
STEP 3: Screw the ETH hinge to the door. At this time **DO NOT** connect the hinge wires on the jamb side to the wires coming from the power supply.

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

Bridge Rectifier
Mortise Lock Pocket

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

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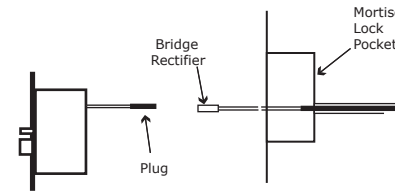
STEP 6: Carefully slip the connected mortise lock chassis into the mortise pocket paying close attention not to pinch any wires.

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.

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 24VAC/DC

REX: (RH/RHR)
Green -Common (C)
Blue -Normally Open (NO)
Gray -Normally Closed (NC)

REX: (LH/LHR)
Green/White -Common (C)
Blue/White -Normally Open (NO)
Gray/White -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)

20332_A
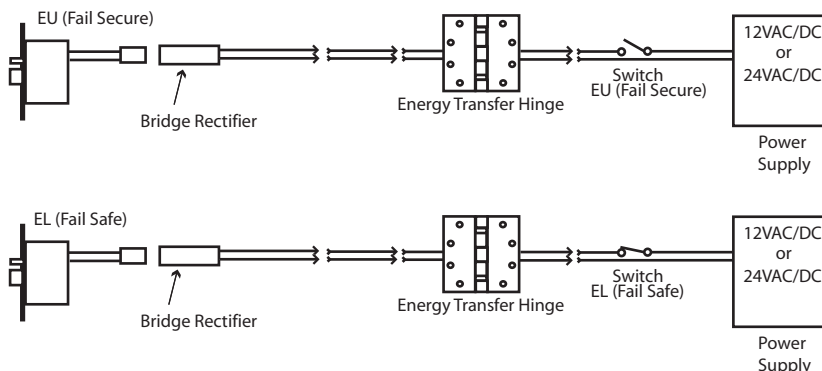
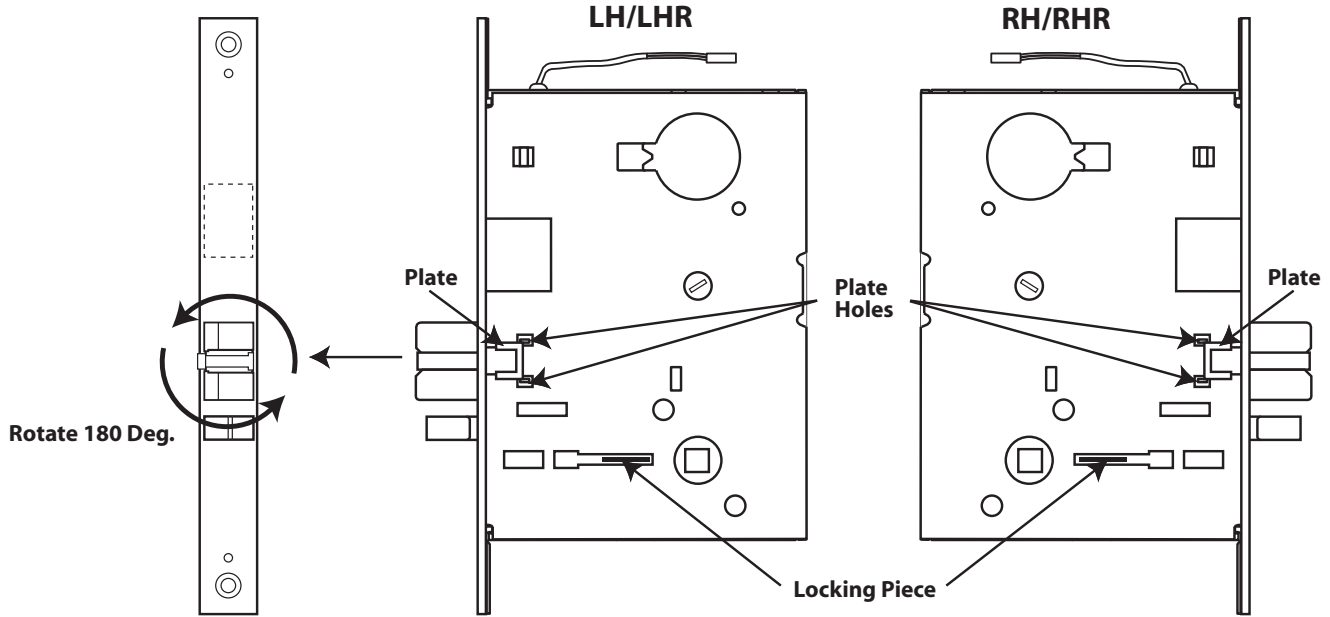# Handing Instructions for ML90/ML91/ML94/ML95 Mortise Locks

STEP 1: To rotate latchbolt, locate plate in one of the plate holes. Insert blade screwdriver in plate hole and press on plate while pulling latchbolt out of case.

STEP 2: Rotate 180° to desired latchbolt position. Firmly press latchbolt into case until it stops moving. Check if latchbolt operates properly.

STEP 3: To rotate locking piece, position the lock body with the RED surface of the locking piece visible.

STEP 4: Move locking piece away from square spindle hole.

STEP 5: Push on edge of locking piece between locking piece and square spindle hole. Rotate 180°. RED mark indicates locked side of door and must be seen on either side of the lock.

LH/LHR

RH/RHR

Plate

Plate Holes

Plate

Rotate 180 Deg.

Locking Piece

Template for ML90/ML91/ML94/ML95 Mortise Locks

2"

2.75"

3.5"

5/16" diameter through hole

1-1/8" diameter through hole

5/16" diameter through hole

℄

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

1.4375"

1.8125"

2.1875"

2.09375"