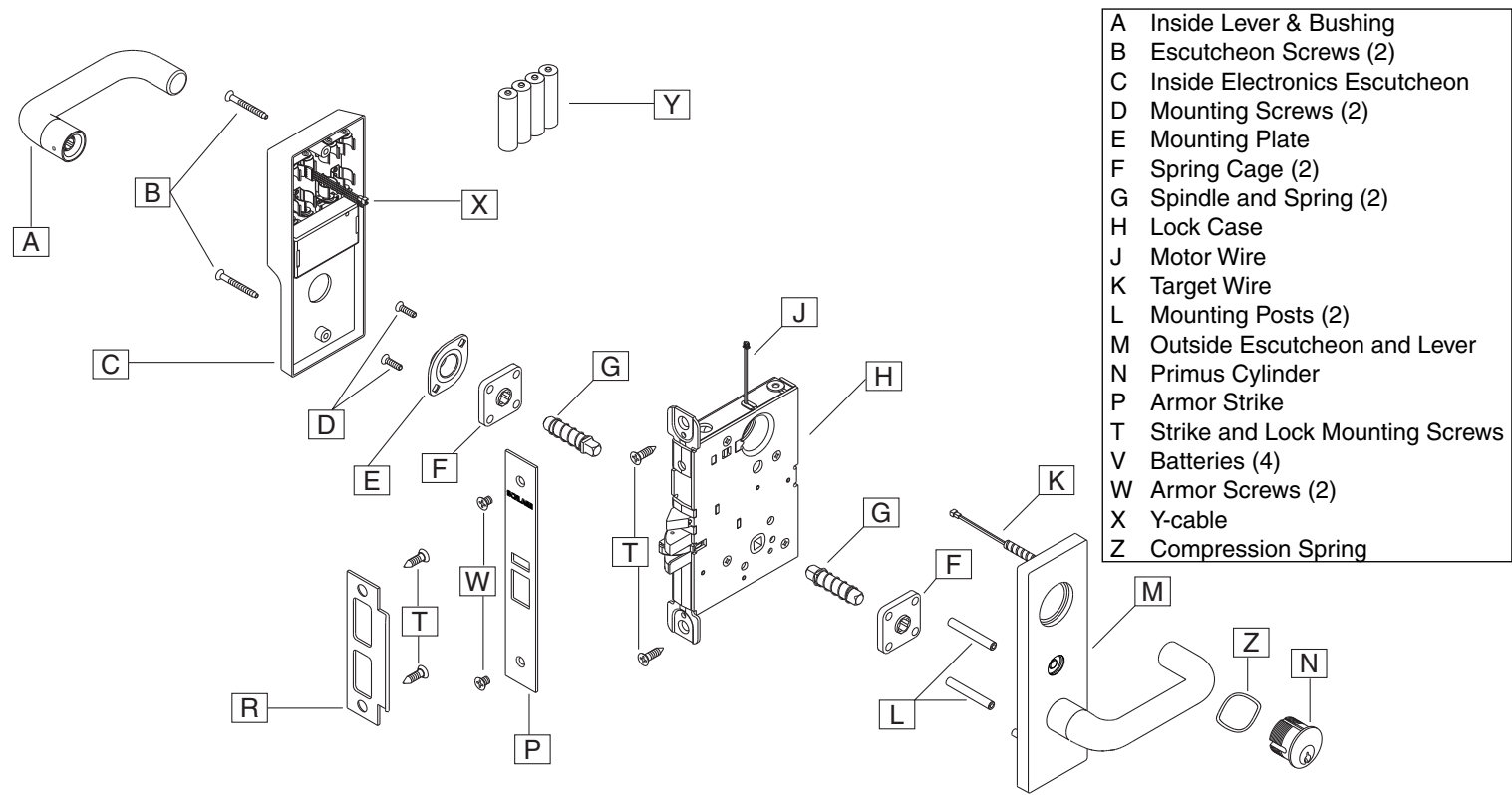# SCHLAGE®
Installation Instructions

e.PRIMUS® – LE-Series
Heavy Duty Mortise Lock

A	Inside Lever & Bushing
B	Escutcheon Screws (2)
C	Inside Electronics Escutcheon
D	Mounting Screws (2)
E	Mounting Plate
F	Spring Cage (2)
G	Spindle and Spring (2)
H	Lock Case
J	Motor Wire
K	Target Wire
L	Mounting Posts (2)
M	Outside Escutcheon and Lever
N	Primus Cylinder
P	Armor Strike
T	Strike and Lock Mounting Screws
V	Batteries (4)
W	Armor Screws (2)
X	Y-cable
Z	Compression Spring

IMPORTANT: All locks are shipped as ordered. Accurate door preparation is essential for proper alignment and function of this lock. Follow template and instructions carefully to avoid installation problems

Tools Required

For Door Preparation
- Wood chisel
- Drill and drill bits
- Pencil
- Ruler
- Mortising jig
- Router (optional)

For Lock Installation
- Phillips screwdriver
- Spanner wrench
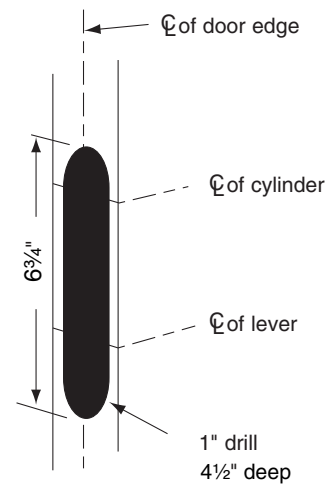- Small jewelers screwdriver (optional)

Door and Jamb Preparation
1

CAUTION: The outside and inside of the door may require different preparation. READ INSTRUCTIONS THOROUGHLY. Use proper template for Outside (exterior or corridor) and inside of door.
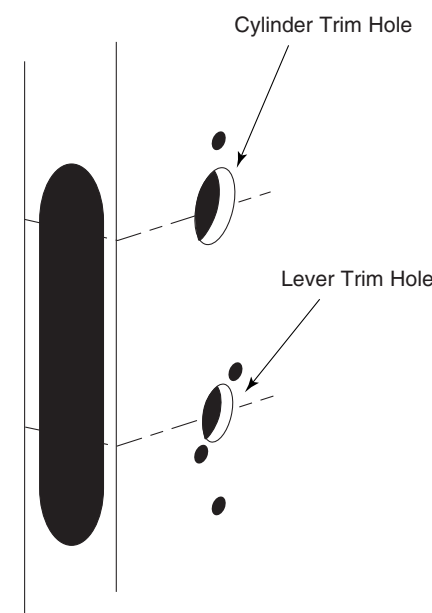
4. Mortise DOOR EDGE—for wood or composite doors.
   a. Align centerline of mortise template with centerline of door edge.
   b. Mark drill points for two (2) 1" diameter holes.
   c. Bore two (2) 1" diameter holes, 4½" deep.
   d. Remove remaining wood until the mortise is 1" wide, by 6¾" high, by 4½" deep
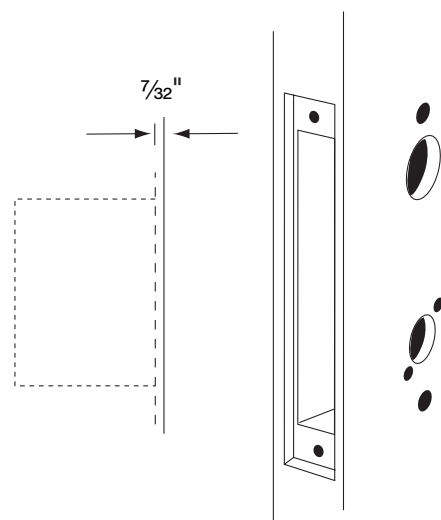

IMPORTANT: To change door handing, see Section 4 (Change Lock Hand) BEFORE installing the lock on the door.

1. Determine LEFT or RIGHT-HANDED Door Installation.

2. Mark lockset CENTERLINE.
   a. Measure desired height from finished floor.
   b. Mark centerline on doorjamb, both door faces, and door edge.

   NOTE: If mortise for strike has already been made, measure 2 3⁄32" down from center of strike to locate centerline of lever.

3. Mark DRILL POINTS for trim holes.
   a. Align centerline of door template with centerline marked on door edge.
   b. Mark trim drill points on both faces and edge of door.

5. Drill TRIM HOLES.

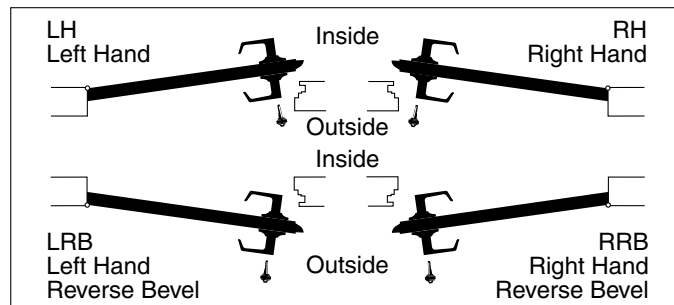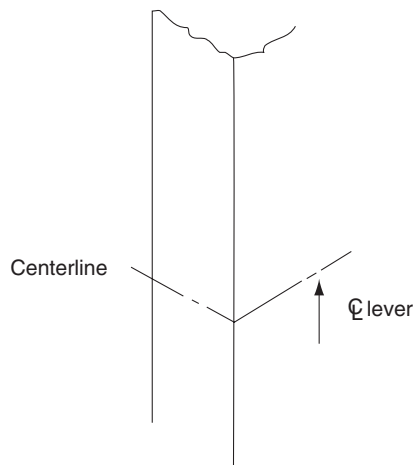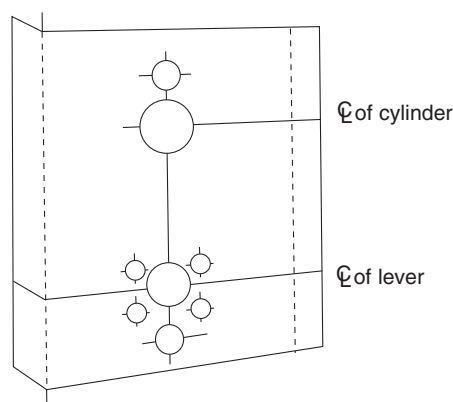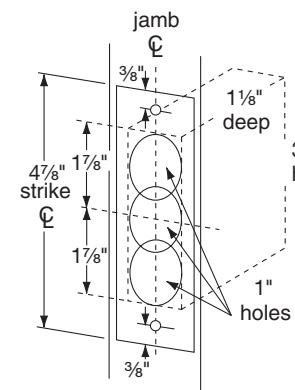   **NOTE:** To prevent splintering or damaging doors, drill trim thru-holes halfway from each side of door.

6. Create a recess for the LOCK FACE.
   The standard recess is 1¼" x 8" x 7⁄32".
   Optional 1 1⁄16" x 8" x 7⁄32".

CAUTION: DO NOT allow the auxiliary latch to enter strike opening.

7. Install STRIKE.
   a. Align centerline of strike template with the centerline marked on doorjamb. (Be sure to match centerline on both strike and lock trim templates.)
   b. Mark drill points for two (2) 1" diameter holes.
   c. Bore two (2) 1" diameter holes into doorjamb, 1⅛" deep.
   d. Recess 5⁄32" for flush fit of strike box.

   NOTE: Additional recess is required when using strike reinforcement.

   e. Using a Philips screwdriver and two (2) strike mounting screws, install strike into doorjamb.
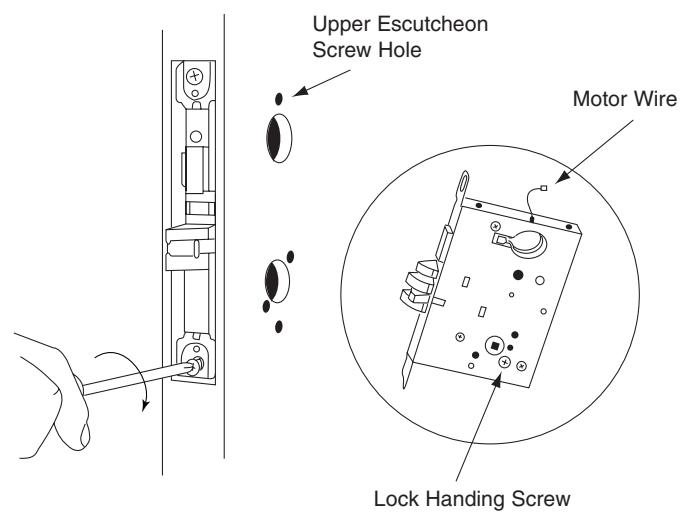

Install Outside Trim
2

IMPORTANT: The lock handing screw must always be on the inside of the door.

1. Install LOCK CASE into door edge.
   a. With armor front removed and motor wire at the top of the lock case, insert lock case into mortise cutout.
   b. Install two (2) lock case mounting screws.

   NOTE: Leave the lock case mounting screws loose to allow for adjustment.
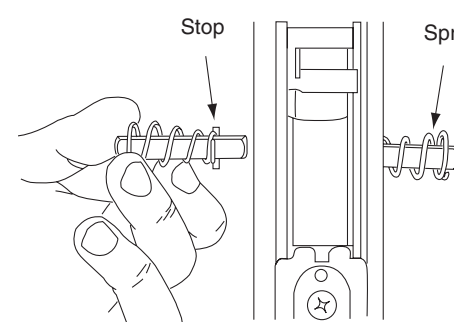

2. Route MOTOR WIRE.
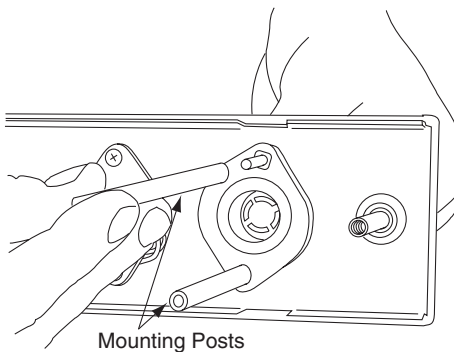   Route motor wire through the upper escutcheon hole to the inside of the door.

   NOTE: The connector should be extending (visible) on the inside of the door.

3. Install OUTSIDE SPINDLE and SPRING.
   a. Slide spring over spindle.
   b. Insert spindle and spring into lock case. Make sure the spindle stop is in contact with the lock case (see below).
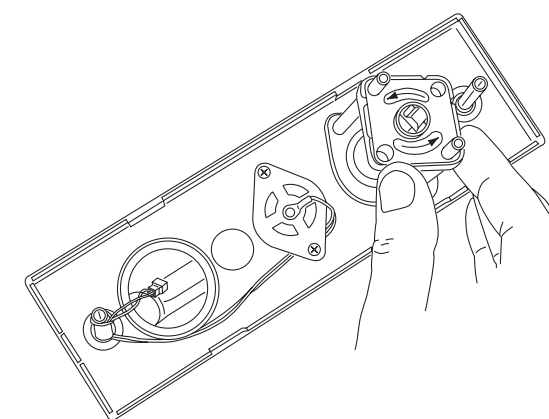

4. Thread MOUNTING POSTS onto outside escutcheon.

5. Install OUTSIDE SPRING CAGE.
   With the spring cage arrows pointing in the direction of lever rotation, place spring cage onto mounting posts.
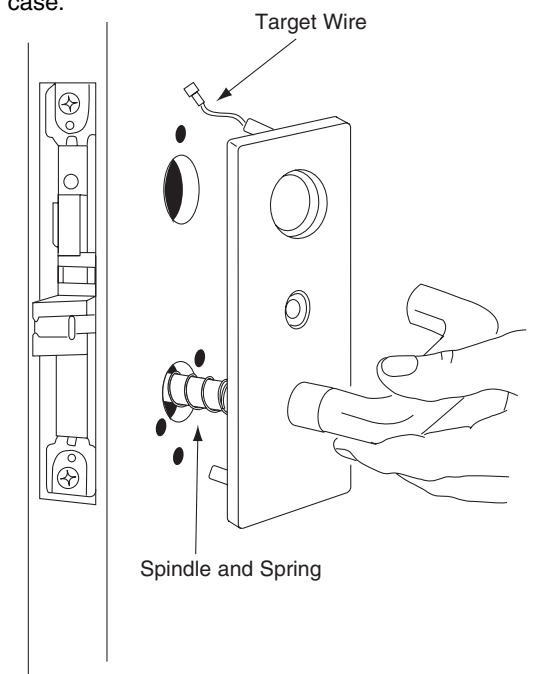
   NOTE: Lever will sag if spring cage is installed with arrows pointing in the wrong direction.

IMPORTANT: While installing outside escutcheon into the door, make sure the lever is in the proper working position.
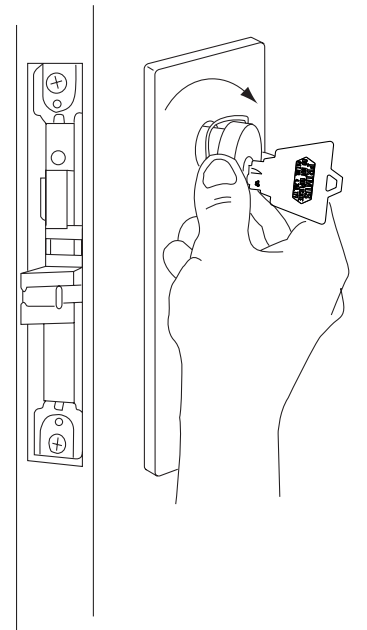
6. Install OUTSIDE ESCUTCHEON into door.
   a. Make sure that the target wire is routed through the top escutcheon screw hole to the inside of the door.
   b. Place the outside escutcheon onto the spindle and insert the mounting posts through the holes in the lock case.

CAUTION: The cylinder should easily screw into the lock case. DO NOT force or cross thread the cylinder.

7. Install outside CYLINDER.
   a. Slide compression spring over cylinder.
   b. Partially insert the mechanical key into the cylinder (this is to aid in tightening the cylinder).
   c. Gently thread cylinder into outside escutcheon and lock case.
   d. Use the mechanical key to turn the cylinder until cylinder is flush with the outside escutcheon trim.
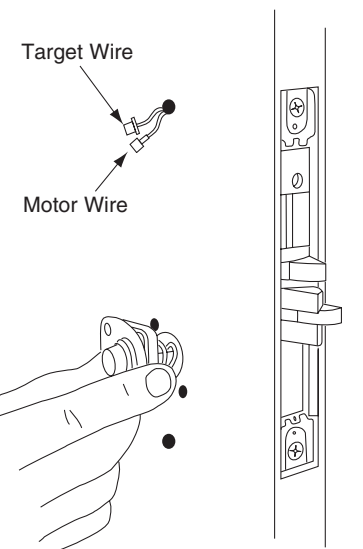

Install Inside Trim
3

1. Install INSIDE SPINDLE and SPRING.
   a. Slide spring over spindle.
   b. Insert spindle and spring into lock case. Make sure the spindle stop is in contact with the lock case. (See Section 2 (Install Oustide Trim), step 3 for graphic.)
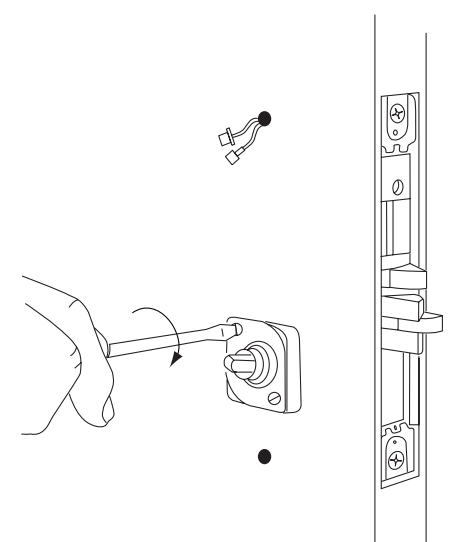
2. Install INSIDE SPRING CAGE and MOUNTING PLATE.
   Slide the spring cage and mounting plate over the inside spindle and spring.

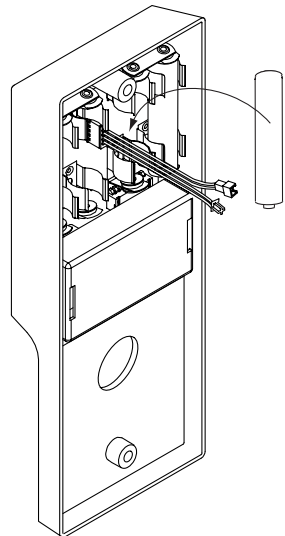   **NOTE:** Make sure the arrows on the spring cage point in the direction of lever rotation.

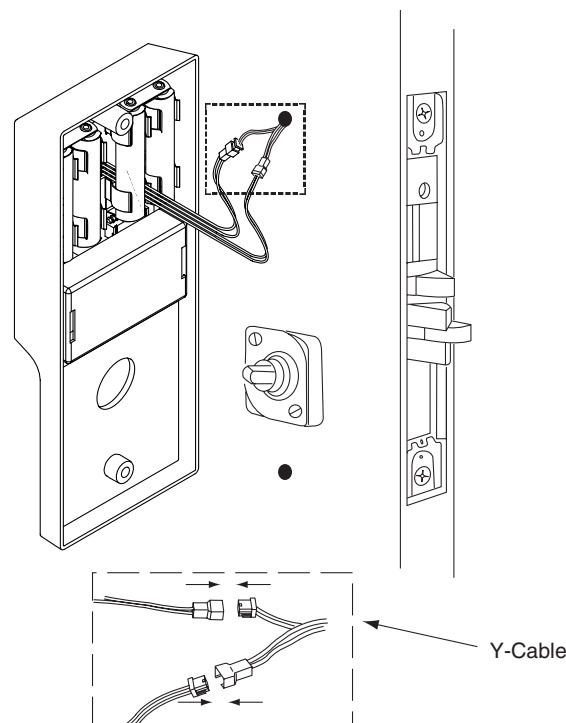**3. Install two (2) MOUNTING SCREWS.**

4. Install FOUR (4) AA BATTERIES.

NOTE: Ensure proper polarity when installing batteries. Check the battery contacts and make sure they are touching both ends of the battery.
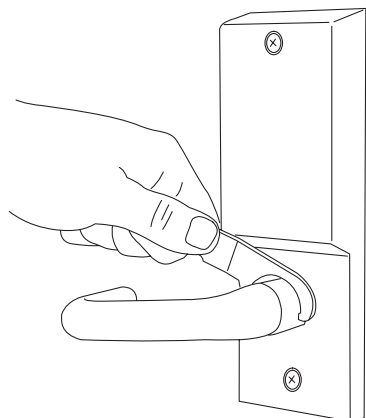
5. Connect TARGET and MOTOR wires to the Y-cable.
   a. Connect the target wire (violet wire) to the violet side of the Y-cable.
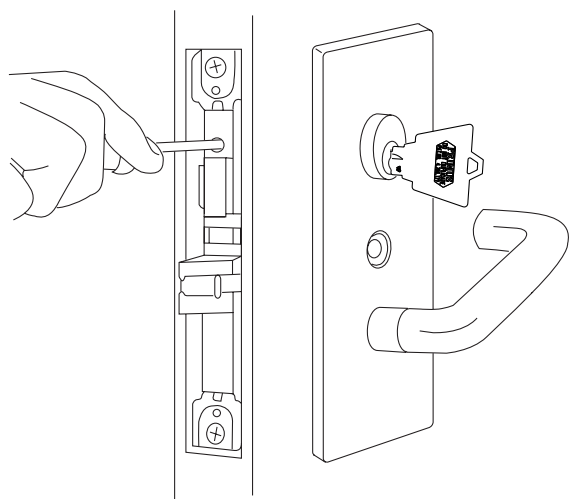   b. Connect the motor wire (red wire) to the red side of the Y-cable.

Y-Cable

6. Insert and tighten the two (2) ESCUTCHEON SCREWS.

7. Test LOCK for proper function.
   a. While the door is open, touch the BLUE test key to the touch receptor. (You should hear a single "beep" and NOT a four (4) tone warble.) If all connections are correct, then the lock motor should operate and the lock will lock.
   b. Touch the BLUE test key to the touch receptor again. The motor should move the lock back into the unlocked position.

NOTE: If the motor does not activate, check the wire connections and then retest the lock. If the wire connections are correct and the motor does not function, then consult the service manual. If the problem persists, contact your service center.

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8. Install INSIDE LEVER.
   a. Insert lever onto spindle.
   b. Using a spanner wrench, tighten bushing.

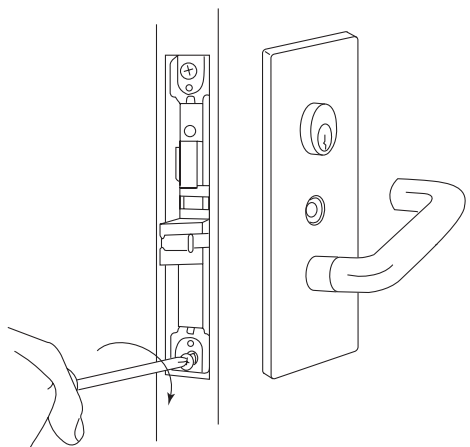**9. Tighten CYLINDER ANCHOR SCREW.**
Using a Phillips screwdriver, tighten the cylinder anchor screw until hand tight.

10. Test MECHANICAL KEY.
   a. Fully insert the key into the cylinder and turn the key clockwise.
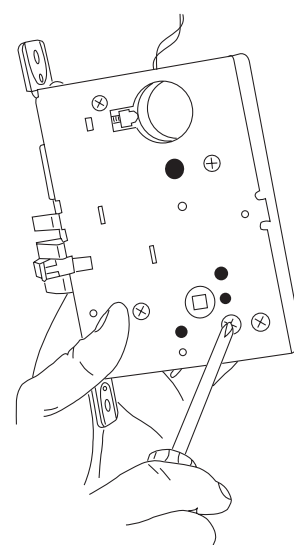   b. Check to make sure the mechanical key retracts the latch.

11. Tighten two (2) LOCK CASE SCREWS.

12. Install ARMOR FRONT.
   a. Place armor front in position on door edge.
   b. Install and tighten two (2) armor front screws.

13. Test LOCK for proper function.
   a. Touch the BLUE test key to the touch receptor.
   b. Check lever for correct lock function.

Change Lock Hand
4

1. Change LATCH HANDING.
   a. With armor front removed, pull anti-friction tongue and latchbolt away from lock case.
   b. Rotate latchbolt 180°.

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2. Change LOCK HANDING SCREW.
   a. Remove lock handing screw from side of lock case.
   b. Install lock handing screw on other side of lock case.

NOTE: The lock handing screw must always be on the inside of the door for proper operation of the lock.
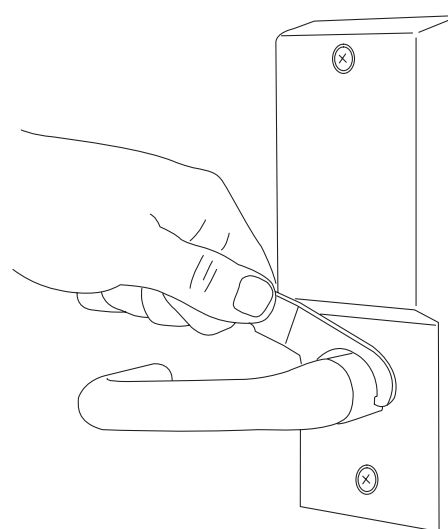

3. Install LOCK.
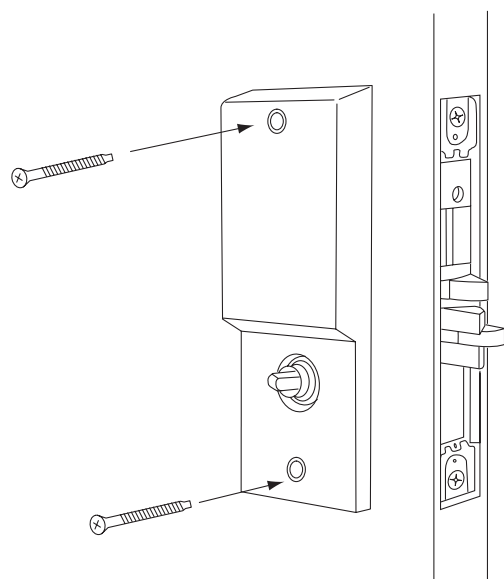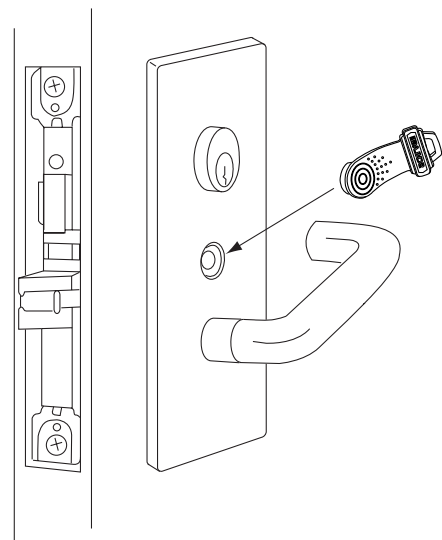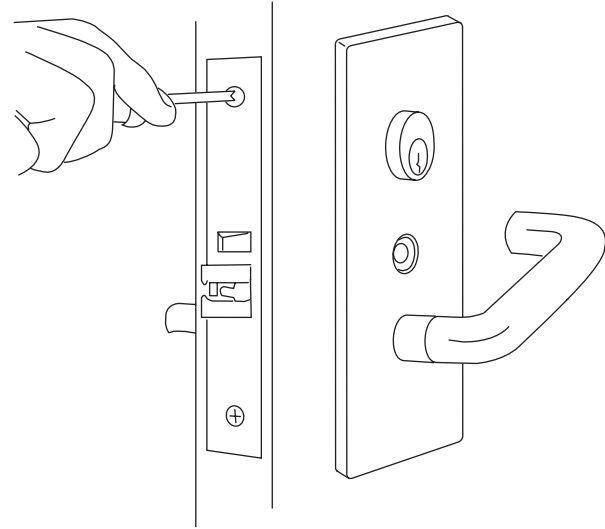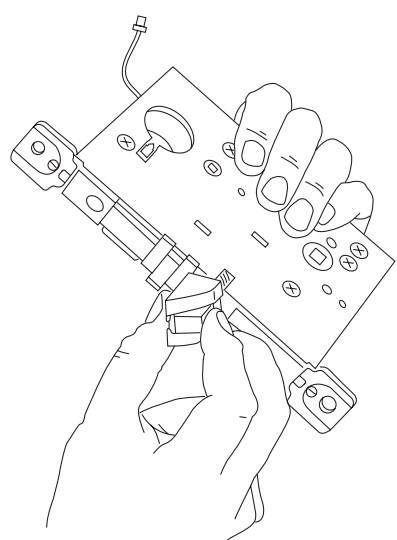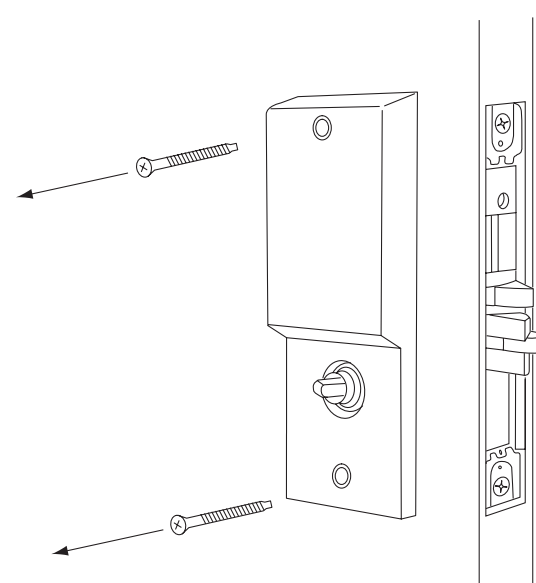See Section 2 (Install Outside Trim) and Section 3 (Install Inside Trim).

Replace Batteries
5

1. Remove INSIDE LEVER.
Using a spanner wrench, loosen the lever bushing and remove the lever from the inside escutcheon.
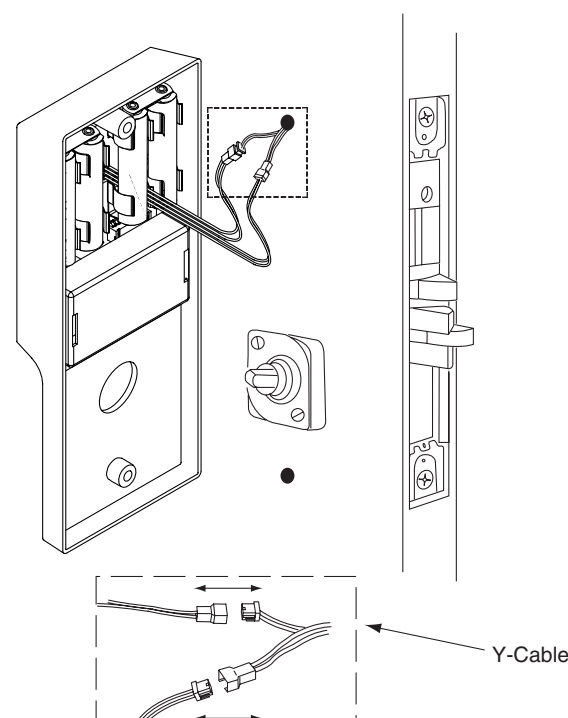
2. Remove INSIDE ESCUTCHEON.
   a. Using a Phillips screwdriver, remove the two (2) escutcheon screws.
   b. While holding onto the inside escutcheon, slowly remove the inside escutcheon from the door until you can see the Y-cable.
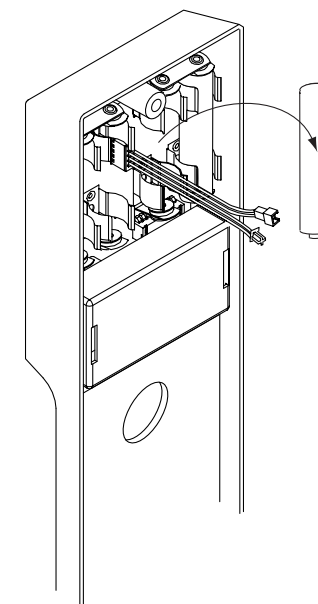

3. Disconnect the Y-CABLE.
Disconnect the motor and target wires from the Y-cable by grasping the wire connectors and NOT the actual wires. If the wires are not easily separated, use the tip of a small, flat-head screwdriver to release the connector snaps.

Y-Cable

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4. Remove the four (4) AA BATTERIES.

5. Install four (4) NEW AA BATTERIES.
See Section 3 (Install Inside Trim), steps 4–13.

General Information

Nonstandard Door Thickness
The e.Primus LE lock door thickness range is 1¾" to 2¼". However, new spindles, springs, and mounting posts must be ordered to change the current lock's door thickness setting. See the Price Book for exact part numbers and prices.

Classroom Function Lock
Once an authorized user key has unlocked a classroom function lock, the lock will remain in the unlocked position. The lock will remain in the unlocked position until an authorized user key relocks the lock.

Model 1 classroom function locks CANNOT be programmed with time features. Model 2 and Model 3 classroom function locks can be programmed with weekly time shifts, activation groups, and holidays.

Storeroom Function Lock
Once an authorized user key has unlocked a storeroom function lock, the lock will remain in the unlocked position for approximately five (5) seconds. After approximately five (5) seconds, a storeroom function lock will return to the locked position.

Model 1 storeroom function locks CANNOT be programmed with time features. Model 2 and Model 3 storeroom function locks can be programmed with weekly time shifts, activation groups, holidays, and timed door sets.

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