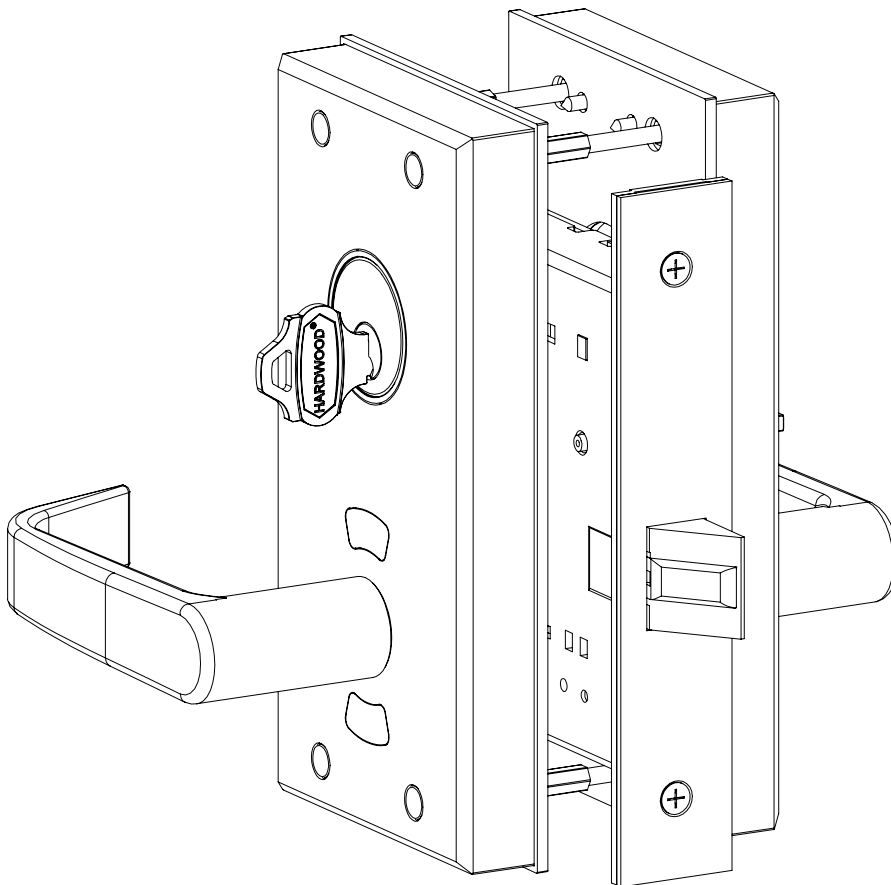


M54 Series

Led Indicator Lock

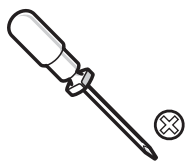


WARNING

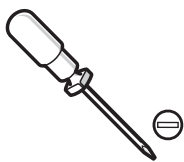
Installers should be aware that improper installation may cause product damage and void the factory warranty.

M54 Series

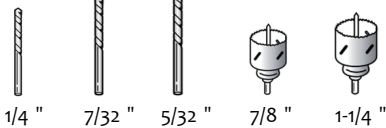
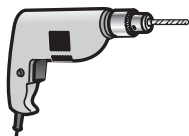
1 Tools Required



Phillips screwdriver



Slotted screwdriver



Drilling machine & heads



Chisel



Pencil



Tape measure



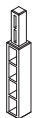
Hammer



Set square

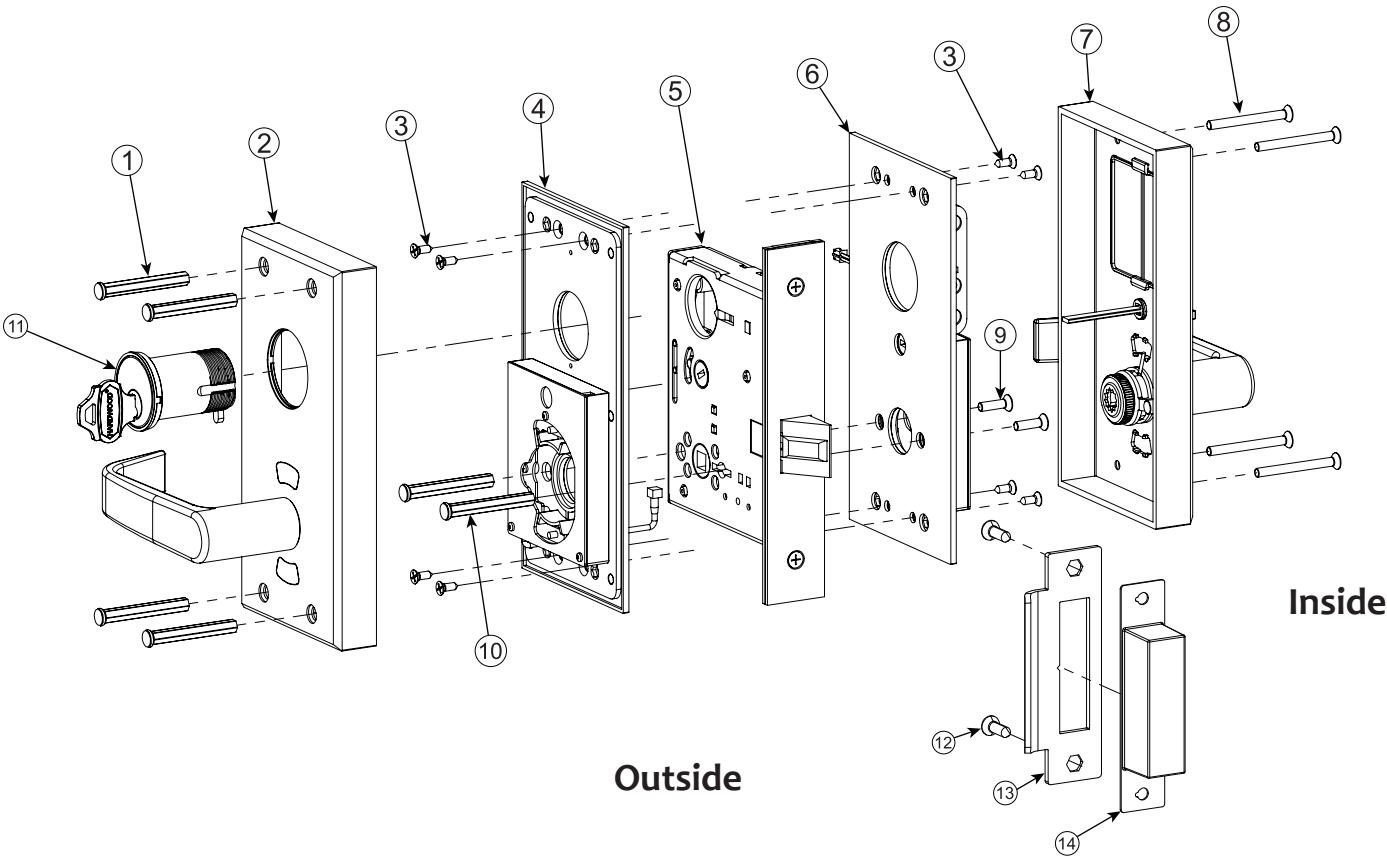


locating plate



locating pin

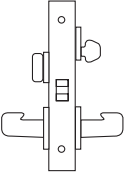
2 Product components



NO.	Description	NO.	Description
1.	Guide pin-trim	8.	PH #8-32+2-1/2" screw
2.	Outside trim	9.	Screw-Guide pin for base plate
3.	Screw-base plate	10.	Guide pin -base plate
4.	Outside base plate	11.	cylinder
5.	Lock body	12.	PH#12-24x3/4" + #12 wood screw
6.	Inside base plate	13.	Strike
7.	Inside trim	14.	Strike box

3

Function & Configuration

PICTURE	ANSI NO.	FUNCTION	DESCRIPTION	LEVER	CYLINDER	THUMB TURN	EMERG TURN
	F04 Variant	Intruder Security Latch	Latch bolt operated by lever from either side, except outside lever is mechanically disabled. Key retracts latch from outside. Inside turn disabling both inside lever and outside key.	✓	✓	✓	

4

Handing

a

 Verify hand and bevel of door. Illustrations shown are as viewed from the outside or secure side of opening.

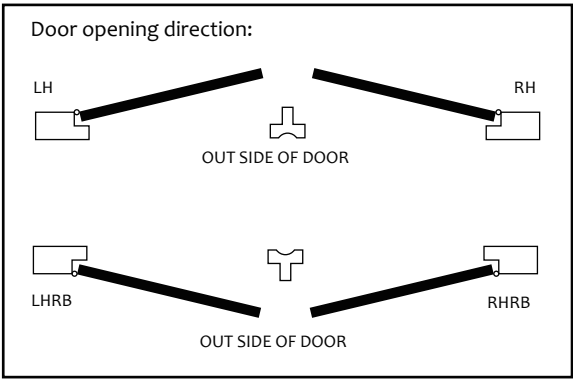
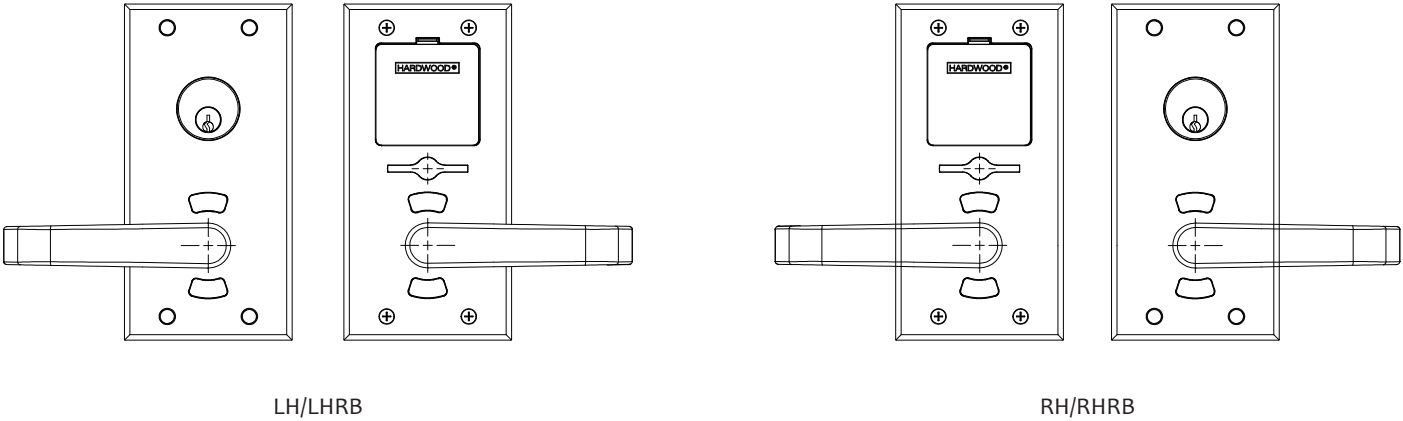


Figure 1

b

Inside/outside electronic trim change. (if needed)



Installation Instructions

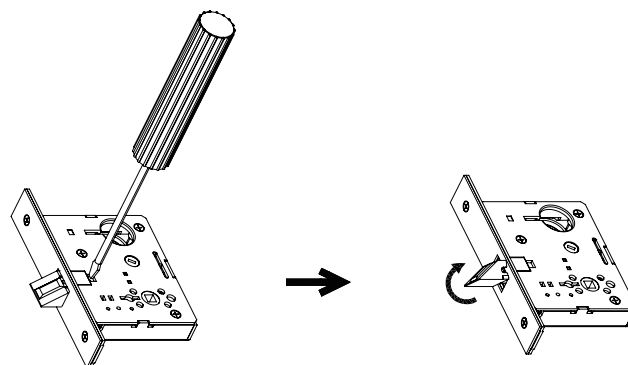
4

Handing (cont.)

c

Change latch bolt handing (Figure 2)

- Remove the face plate with a Phillips screwdriver.
- Pull out the latch bolt with a flathead screwdriver, then rotate it 180°.



(Figure 2)

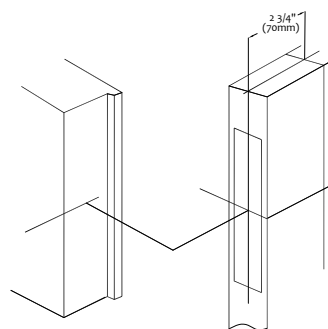
5

Door Preparation

a

Mark centerlines (Figure 3)

- Door thickness shall not be less than 1-3/4" (44 mm) and shall not exceed 2-1/4" (57 mm).
- Mark door thickness center line.
- Mark the lock body centerline at the required height.
- Mark center line and confirm the position for cylinder, lever and turn.



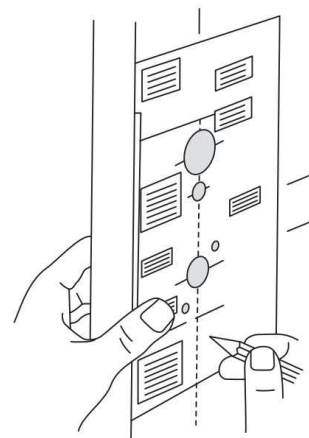
(Figure 3)

b

Mark the drill holes with template (Figure 4)

***Important:** Before drilling, mark the through holes and blind holes according to the template.

- Fold and apply template to the door, ensure the vertical baseline is aligned with the center of the door thickness; refer to the upper and lower scale markings as needed.
- Verify that the horizontal baseline aligns with the marked lock center line.
- Mark all required hole positions for the lock body, cylinder, lever, and thumb turn, etc.



(Figure 4)

Installation Instructions

5

Door Preparation (cont.)

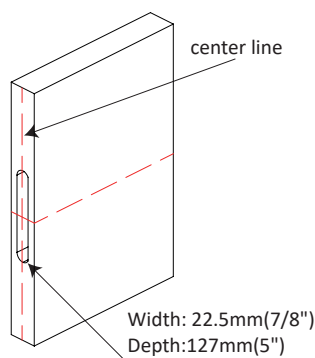
c

Mortising and drilling holes (Figure 5~8)

- Mortise and drill holes according to the marked options and listed sizes

Mortise door pocket

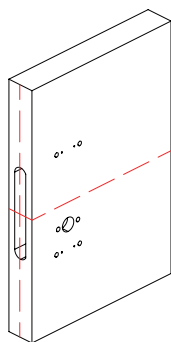
145×22.5×127mm
(5-11/16"×7/8"×5")



(Figure 5)

Drill outside holes

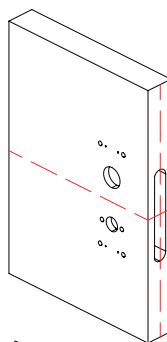
Check thru hole or blind hole before drilling.



(Figure 6)

Drill inside holes

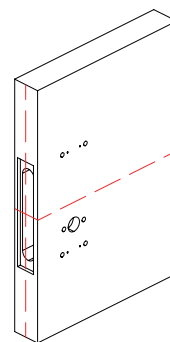
Check thru hole or blind hole before drilling.



(Figure 7)

Chisel cutout for face plate

31×172.5×5.5mm
(1-3/16"×6-13/16"×3/16")



(Figure 8)

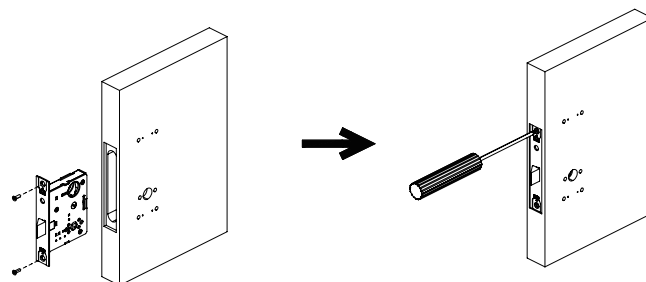
6

Installation

a

Install Lockbody (Figure 9)

- Remove the face plate.
- Put the lockbody into door pocket.
- Make sure it is plumb between lockbody and dooropening. Then tighten the screws.

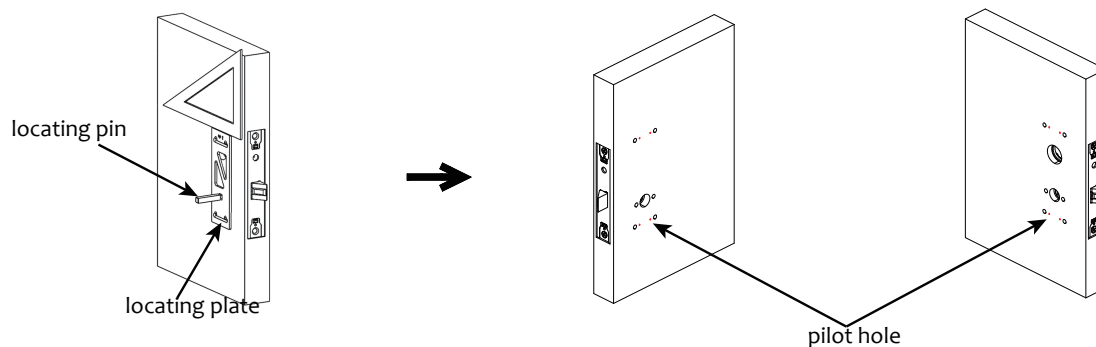


(Figure 9)

b

Mark holes for base plate (Figure 10)

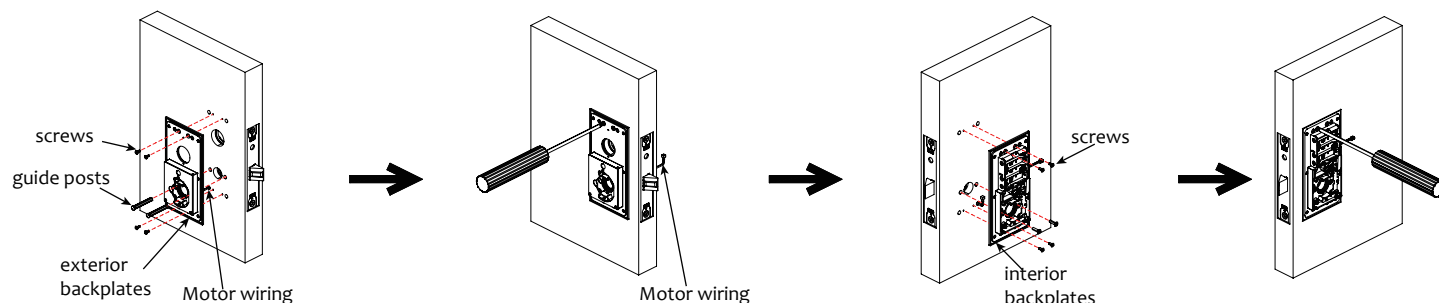
- Insert the locating pin into the lever hole, then pass the square hole of the locating template over the pin and mount it on the door.
- Use a try square to level the locating template.
- Mark and drill the pilot holes on the door, metal door requires tapping #6-32UNC-2B.



(Figure 10)

c Install exterior backplates (Figure 11)

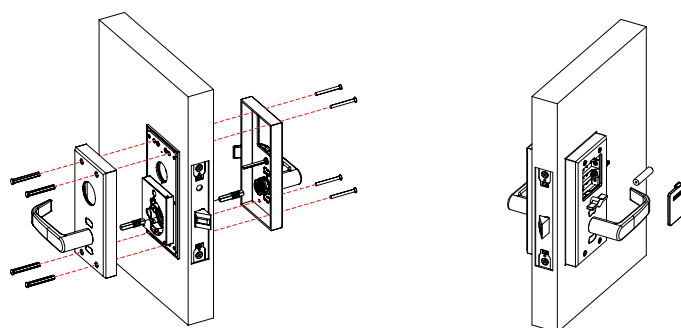
- Pay attention to the inside/outside base plate, and top/bottom orientation
- Position the outside base plate against flush to door, insert the guide pin through the outside base plate and the lock body. Fasten the exterior backplates with 4 screws. The power cable needs to pass through the door.
- Position the inside base plate flush to door, and secure the base plate both sides with 2 screws.
- Fasten the interior backplates with 4 screws.



(Figure 11)

d Install outside/inside trim (Figure 12)

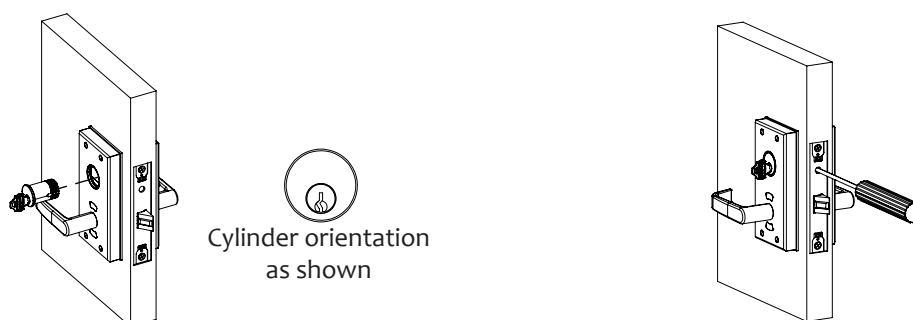
- Install the spindle, outside and inside trim, guide pins, in sequence.
- Lock the four screws (When tightening the screws, be sure to ensure that the pins can rotate freely)
- Install four batteries. Make sure the positive and negative terminals of the batteries are oriented correctly. Then cover the battery cover. Rotate the thumb turn once. Check if the red LED is light up.



(Figure 12)

e Install cylinder (Figure 13)

- Rotate the cylinder into the lock body until it is flush with the trim surface, ensuring the cylinder plug is facing downward.
- Slightly withdraw the key from the cylinder to assist installation.
- Keep the key vertical, tighten the cylinder retaining screw using a Phillips screwdriver.
- Ensure correct keyway orientation and smooth cylinder operation; verify latch bolt function with the key.



(Figure 13)

Installation Instructions

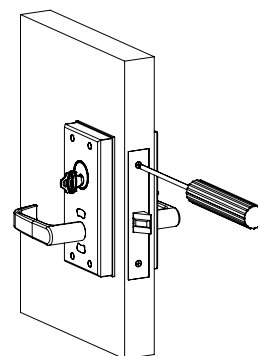
6

Installation(cont.)

f

Install face plate (Figure 14)

- Install the face plate back to the lock front, and tight with two screws.

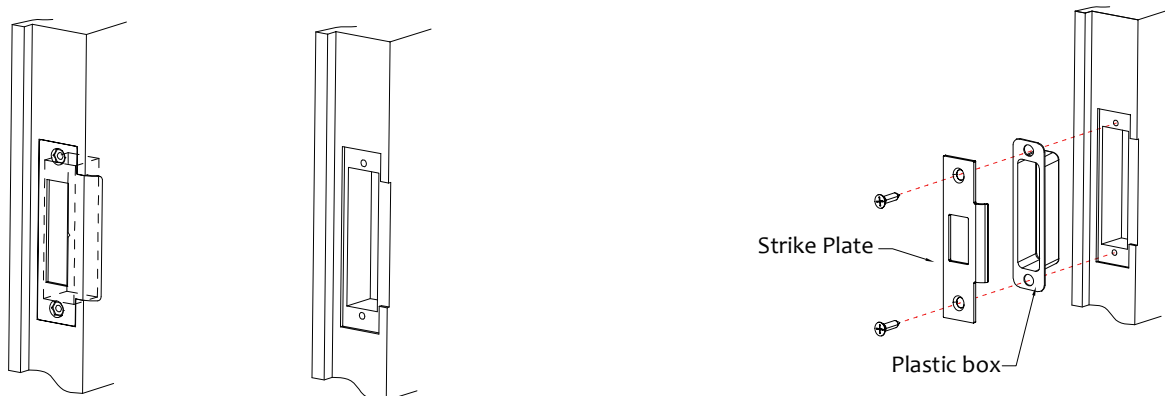


(Figure 14)

g

Mortise and install strike (Figure 15)

- Mortise the pocket $3\text{-}3/4\text{'}\times15/16\text{'}\times1\text{-}1/8\text{'}$ (95×24×28.5mm).
- Make cutout $4\text{-}7/8\text{'}\times1\text{-}1/4\text{'}\times1/8\text{'}$ (124×32×3.4mm) for strike plate.
- Fix the strike and strike box with 2 screws, make sure that the dead bolt can be completely projected after the door is closed.
- Make sure that the auxiliary latch will lock the latch bolt after the door is closed.



(Figure 15)

7

Trial Operation

a

Operate the levers: Both interior and exterior handles retract the latch bolt; when locked by thumbturn or key, levers are inoperative

b

Test the key and thumbturn to ensure smooth locking and unlocking without resistance.

c

Check the LED indicator: LED turns on when locked by thumbturn and off when unlocked.

Note: Perform all functional tests with the door in the open position. Do not close the door until all functions operate correctly. If resistance is encountered, do not force operation. Verify correct orientation and adjust if necessary.