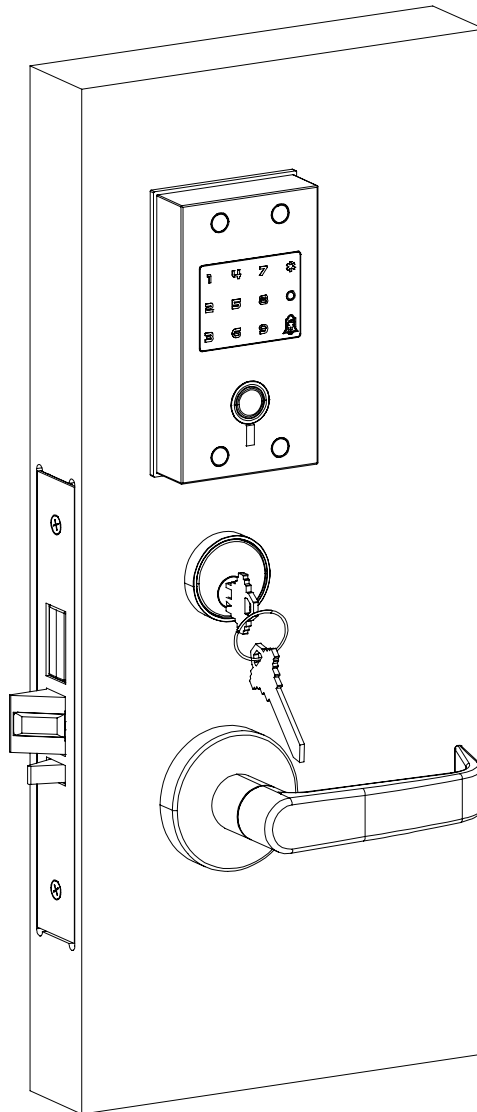


M60 Series

Sectional Electronic Mortise Lock

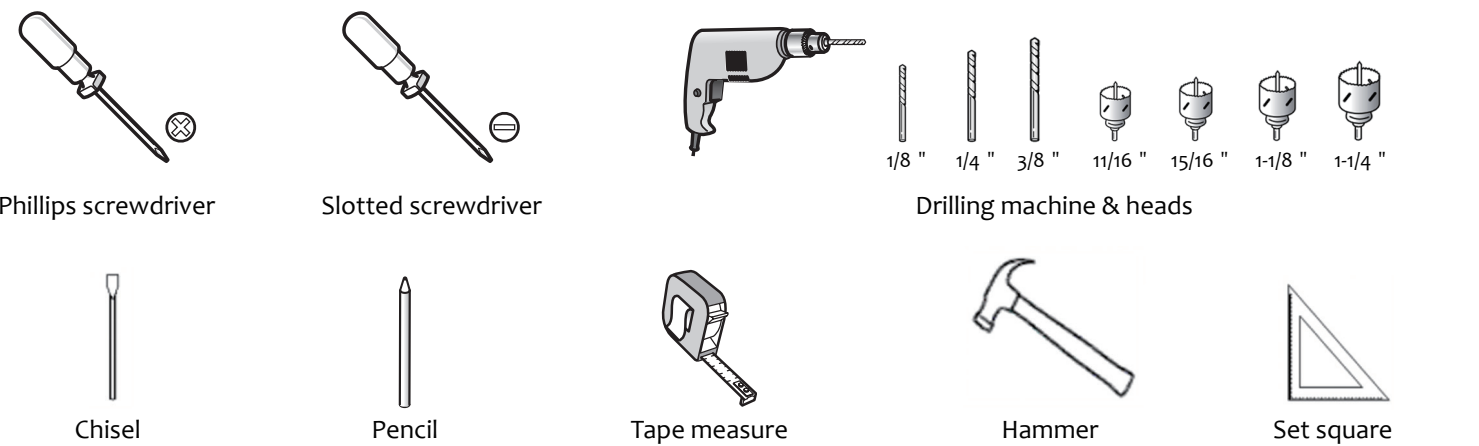


WARNING

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

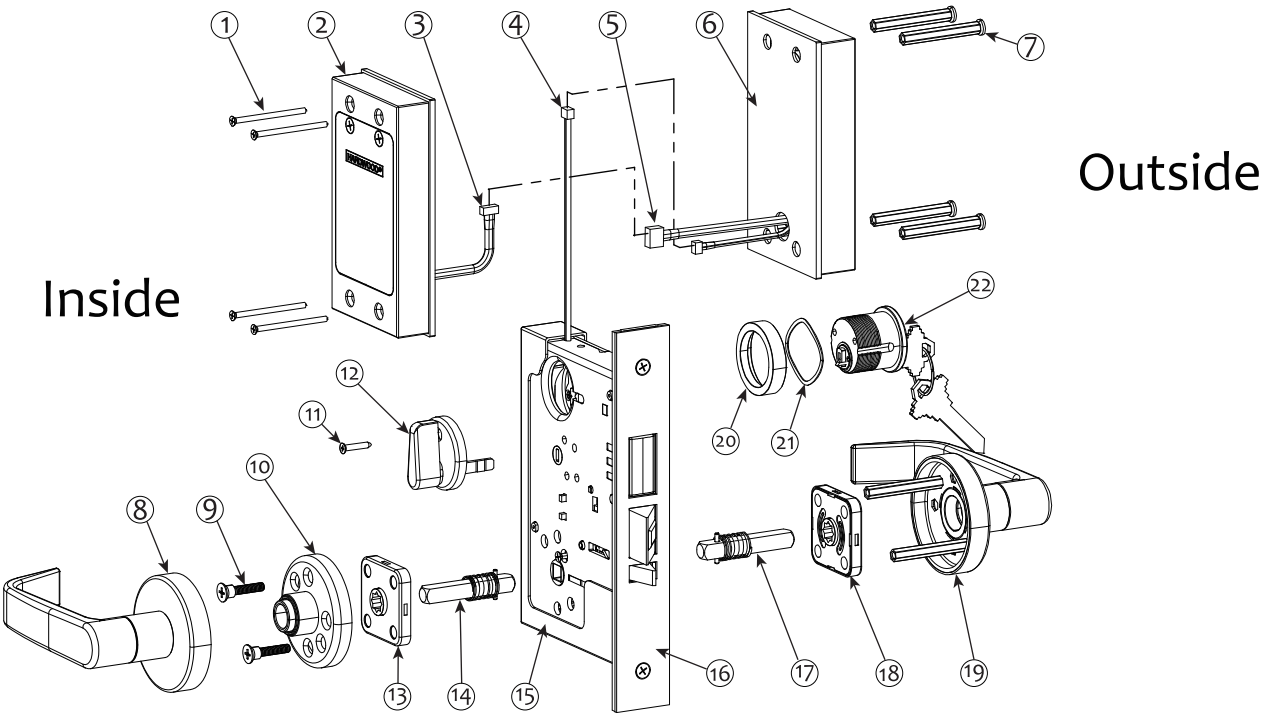
1

Tools Required



2

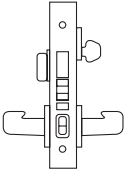
Product Components



No.	Description	No.	Description
1	Panel screw	12	Thumb turn
2	Inside electronic panel	13	Rotation stop-Inside lever
3	Power cable	14	Spindle-Inside lever
4	Lock body cable	15	Wire guard
5	Keypad cable	16	Lock body
6	Outside keypad	17	Spindle-Outside lever
7	Guide pin	18	Rotation stop-outside lever
8	Inside lever assembly	19	Outside lever assembly
9	Lever screw	20	Spacer ring
10	Mounting plate-Inside lever	21	Wave spring
11	Thumb turn screw	22	Cylinder

3

Function & Configuration

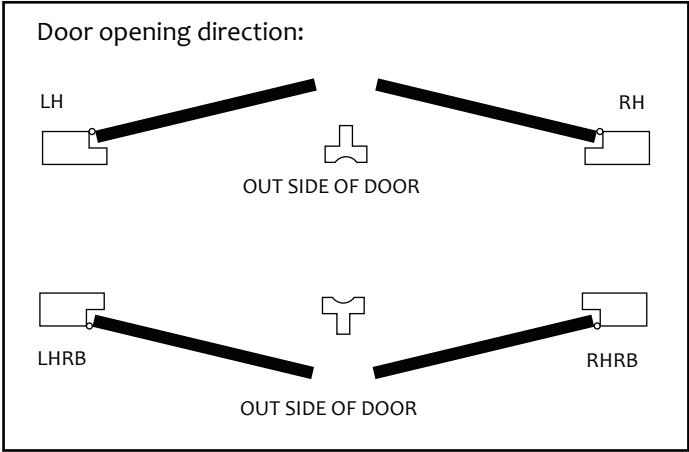
PICTURE	ANSI NO.	FUNCTION	DESCRIPTION	Operating trim
	F20	Apartment Corridor Door Lock	Lever latch both sides; outside lever disable by non-key means. Deadbolt by key outside or turn inside; key operates both bolts. Inside lever retracts both bolts; outside stays locked. Latch deadlocks when disabled or deadbolt thrown; re-enabled when deadbolt is retracted.	• Lever-Both sides • Cylinder-Outside • Thumb turn-Inside

4

Handing

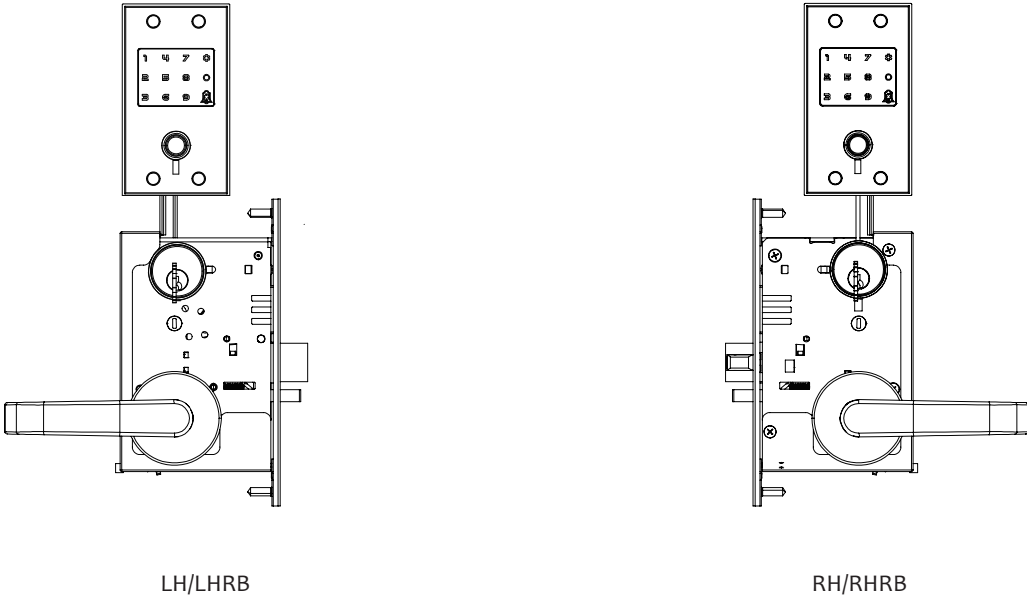
a

 Verify hand and bevel of door. Illustrations shown are as viewed from the outside or secure side of opening.(Figure 1)



b

Inside/outside keypad change. (if needed)



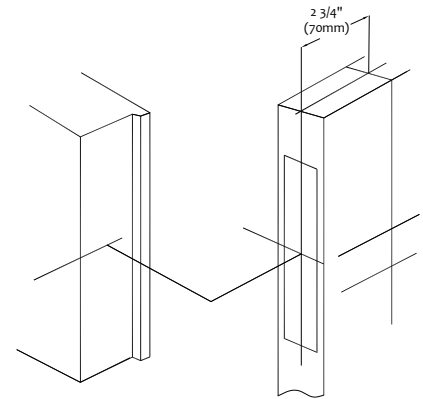
Electronic Mortise Lock

5

Door Preparation

a Mark centerlines (Figure 2)

- 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, thumb turn, keypad



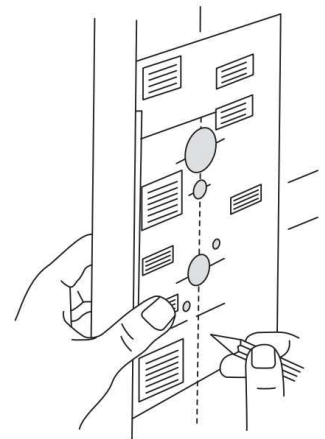
(Figure 2)

b Mark the drill holes with template (Figure 3)

- Fold and apply template to the door, ensure the vertical baseline parallel to the door edge and 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 height.
- Mark all required hole positions for the lock body, cylinder, lever, and thumb turn, etc.

***Note:**

- Ensure clear identification of through holes and blind holes to prevent irreversible damages.



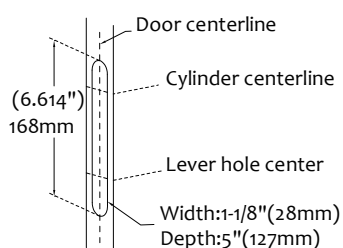
(Figure 3)

c Mortising and drilling holes

- Important: Before drilling, refer to (4. Drill Hole Options) based on the lock model to determine the required holes, and distinguish between blind holes and through holes.

1. Clean door pocket

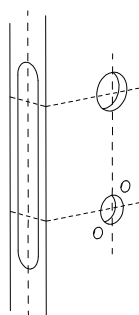
Check template to clean door pocket:
168×28×127mm
(6-5/8×1-1/8×5")



(Figure 4)

2. Drill outside holes

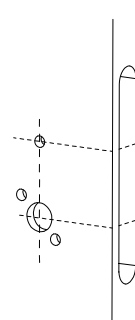
Drill outside holes
Note: Check Thru hole or blind hole before drilling



(Figure 5)

3. Drill inside holes

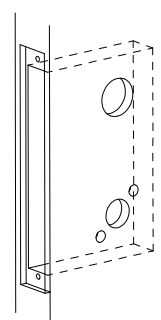
Drill inside holes
Note: Check Thru hole or blind hole before drilling.



(Figure 6)

4. Chisel front plate square groove

Chisel square groove:
32.8×204.9×5.5mm
(1-5/16×8-1/16×3/16")



(Figure 7)

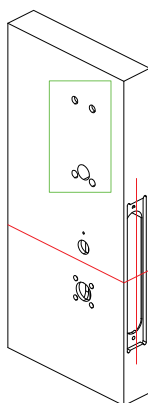
Electronic Mortise Lock

5

Door Preparation(cont.)

5. Drill holes for keypad

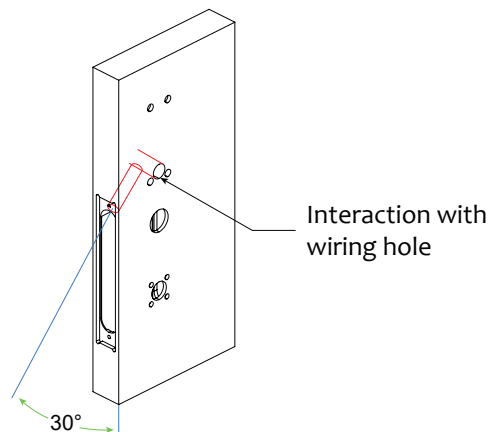
Drill 4 of 3/8 " through holes for guide pin. Drill 1 " through hole for wiring



(Figure 8)

6. Drill holes for wiring

Drill 1/2" hole at a 30° angle, intersecting with the 1" wiring hole.



(Figure 9)

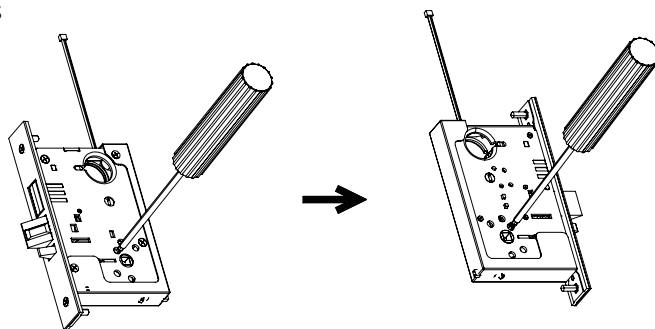
6

Installation

a

Inside/Outside Lever Change (If needed) (Figure 10)

- Screw off the limit screw by philips screwdriver.
- Screw the limit screw into the opposite hole as shown below.
- Tighten the screw enough to make sure the direction has been changed.

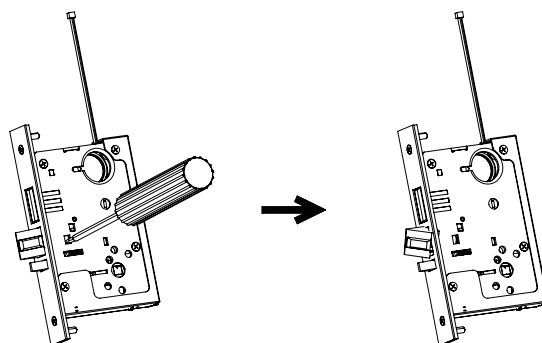


(Figure 10)

b

Inside/Outside Latch Bolt Change (If needed) (Figure 11)

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



(Figure 11)

Electronic Mortise Lock

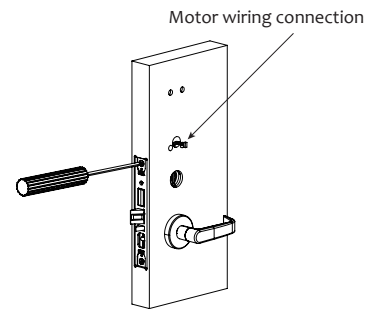
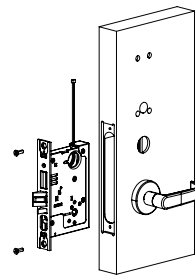
6

Illustration(cont.)

c

Install Lockbody (Figure 12)

- Remove the face plate.
- Put the lockbody into door pocket.
- Thread the lock body wire through the wiring hole
- Make sure it is plumb between lockbody and door opening. Then tighten the screws

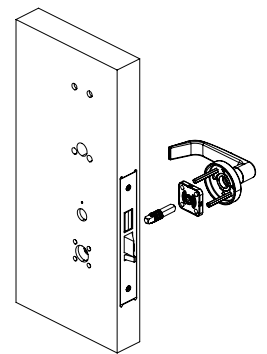


(Figure 12)

d

Install outside lever set (Figure 13)

- Slide outside spindle into lock hub, mount the outside rotation stop on the spindle.
- Mount the outside lever set by insert the guide pins into to the through holes.

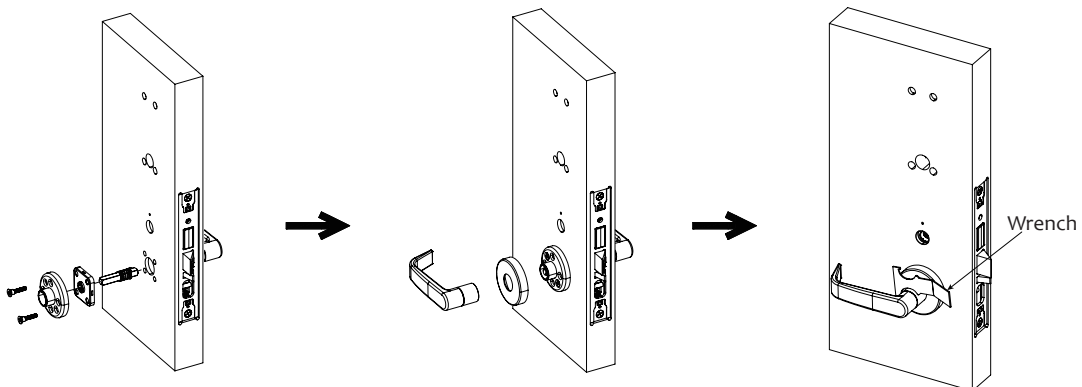


(Figure 13)

e

Install inside lever set (Figure 14)

- Slide inside spindle into lock hub, mount the inside rotation stop and mounting plate on the spindle, secure with two screws.
- Screw rose firmly onto the mounting plate.
- Attach inside lever to the spindle, tight the sleeve with the wrench supplied.



(Figure 14)

Note: Rotation stop of both sides must face correct direction, otherwise the lever can not be operated.

Electronic Mortise Lock

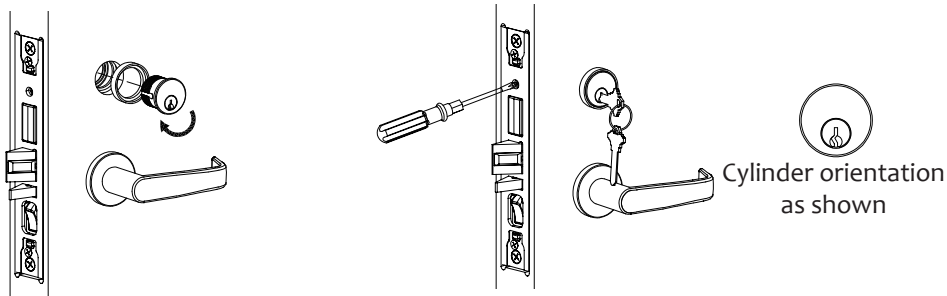
6

Illustration(cont.)

f

Install cylinder (Figure 15)

- Select the proper cylinder spacer according to the door thickness:
8mm (5/16") spacer for 44~50 mm (1-3/4"~1-31/32") door
5mm (3/16") spacer for 50~57 mm (1-31/32"~2-1/4") door
- Install the cylinder spacer and spring washer onto the cylinder, then insert and rotate the cylinder clockwise into the cylinder hole, ensuring the spacer is flush with the cylinder face.
- Tighten the cylinder retaining screw.
- Verify the keyway orientation is correct, and use the key to check that the cylinder operates smoothly and that both the latch bolt and deadbolt function properly.

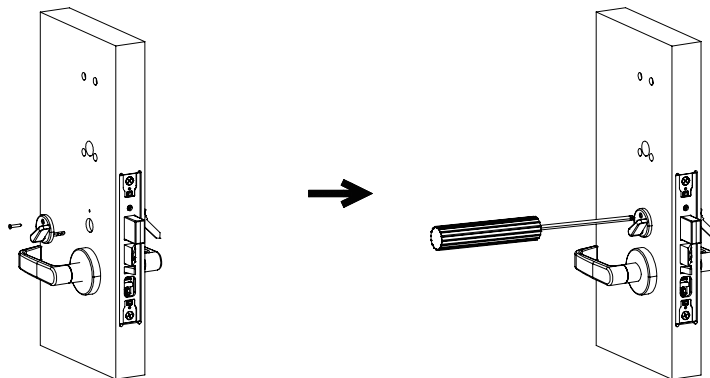


(Figure 15)

g

Install thumbturn (Figure 16)

- Mount the thumb turn onto the door by inserting the tailpiece into the thumb turn hole
- The orientation of the thumb turn should correspond to the projected/retracted status of the dead bolt.
- Secure the thumb turn assembly with two screws.



(Figure 16)

Electronic Mortise Lock

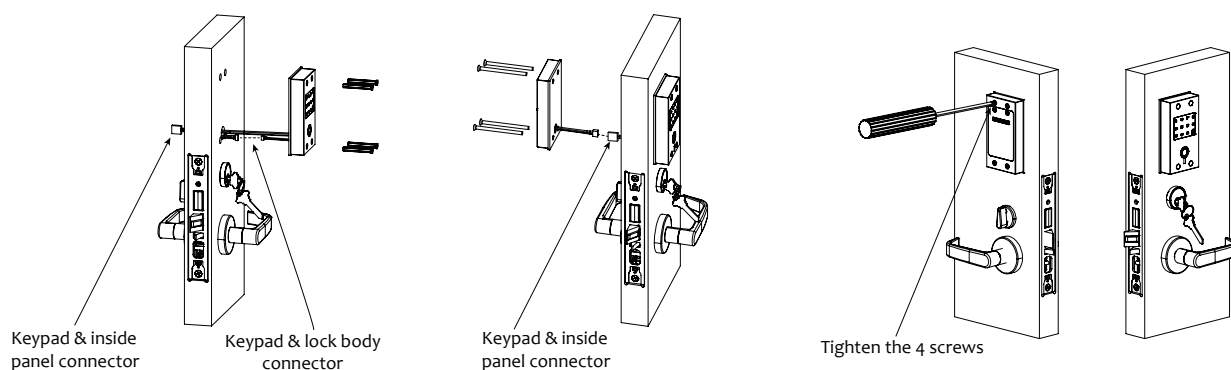
6

Illustration(cont.)

h

Install keypad & inside panel (Figure 17)

- Connect the lock body wire to the keypad wire. Thread the keypad and back panel connectors to the inside of door. Attach the keypad to the door surface and insert the four guide pins.
- Connect the back panel connector to the keypad connector. Tuck the wires inside the door opening (ensuring no wire overlap). Secure the panels both sides with four screws.

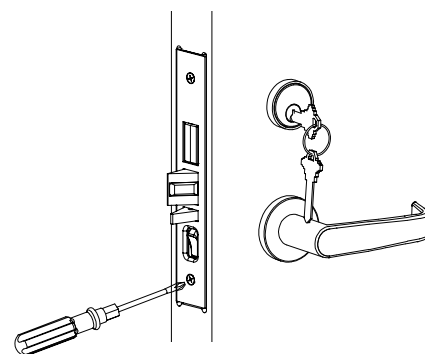


(Figure 17)

i

Install face plate (Figure 18)

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

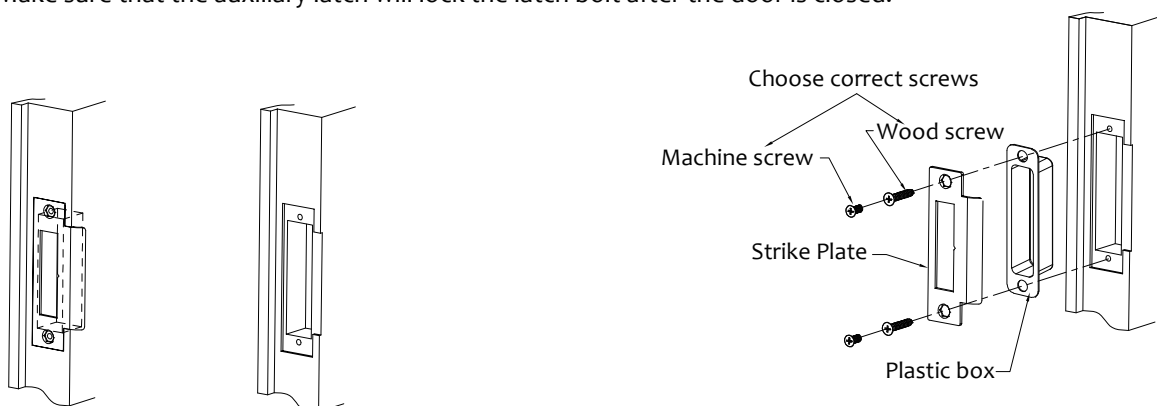


(Figure 18)

j

Mortise and install strike (Figure 19)

- Mortise the pocket $3\frac{3}{4}'' \times 15\frac{1}{16}'' \times 1\frac{1}{8}''$ (95×24×28.5mm).
- Make cutout $4\frac{7}{8}'' \times 1\frac{1}{4}'' \times 1\frac{1}{8}''$ (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 19)

Electronic Mortise Lock

7

Trial Operation

a

Insert the key into the cylinder and rotate to ensure smooth operation without friction, and properly locks and unlocks the latches .

b

Operate the thumb turn and rotate to ensure smooth operation without friction, and properly locks and unlocks the dead bolt.

c

Test levers. Inside lever must able to retract latch bolt. If with easy unlock function, inside lever can also retract deadbolt. Outside lever can/can't retract latch bolt depending on different functions, but must not retract deadbolt.

d

Refer to the electronic lock manual, set the master code and test the pin code, fingerprint, and RFID card unlocking functions.

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.