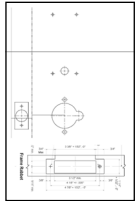
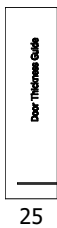


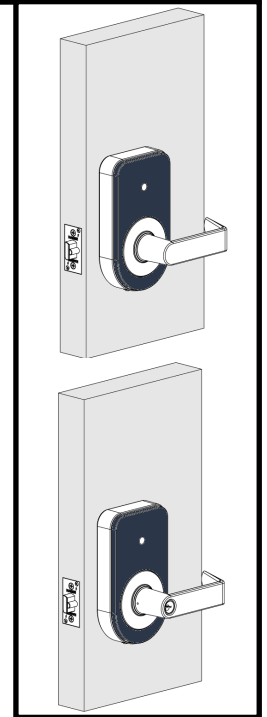
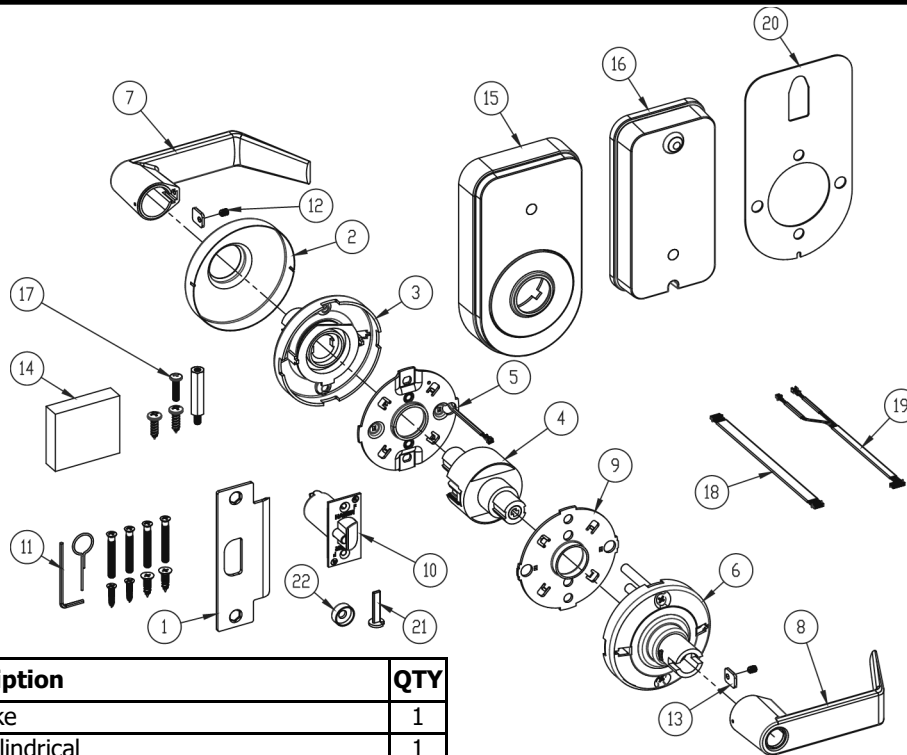
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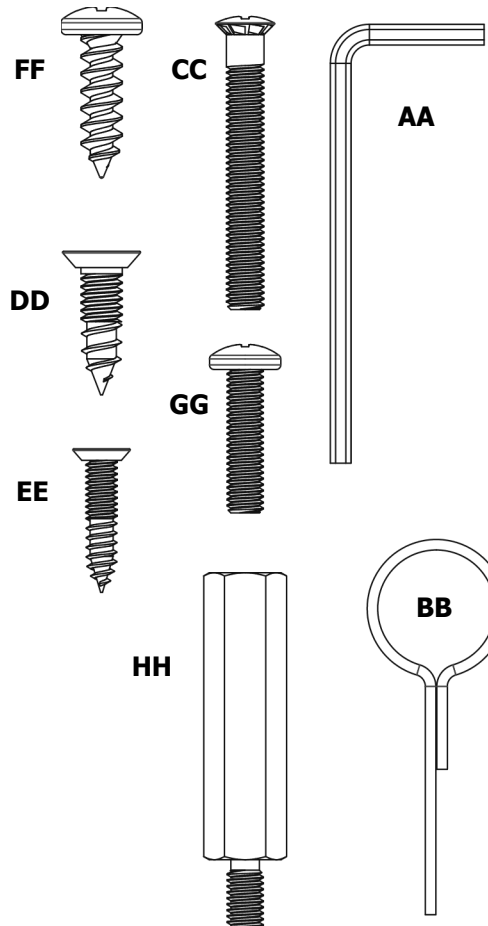
24



25



Part	Description	QTY
1	ASA Strike	1
2	Rose, Cylindrical	1
3	Spring Cage Assembly, Interior	1
4	Lock Chassis Assembly	1
5	Interior Mounting Plate with RX Switch	1
6	Spring Cage Assembly, Exterior	1
7	Withnell Lever, Interior	1
8	Withnell Lever, Exterior, NKO	1
9	Mounting Bracket, Exterior	1
10	Dead Latch	1
11	Screw Pack, EQ34	1
AA	Allen Wrench, 3/32"	1
BB	Lever Removal Tool	1
CC	Screw, #10-32 x 1.4" Oval Head Machine	4
DD	Screw, #12-24 X 3/4" Flat Head Combo	2
EE	Screw, #8-32 x 3/4" Flat Head Combo	2
12	Set Screw, #10-32 x 1/4", 3/32" Drive	2
13	Retaining Plate, Lever	2
14	AA Alkaline Batteries	4
15	Escutcheon Assembly, Cylindrical	1
16	Power Pack Assembly	1
17	Screw Pack, Power Pack	1
FF	Screw, #12 x 3/4" Pan Head	2
GG	Screw, #10-32 x 3/4" Pan Head Machine	1
HH	Hex Standoff, #10-32 x 1.5" Male-Female	1
18	Wiring Harness, Control Board to Reader	1
19	Wiring Harness, Control Board to Lock	1
20	Main Gasket, Cylindrical	1
21	Tailpiece (Key Override Only)	1
22	Cup (Key Override Only)	
23	Installation Instructions	
24	Template	1
25	Door Thickness Guide	1



## 1 Safety Information

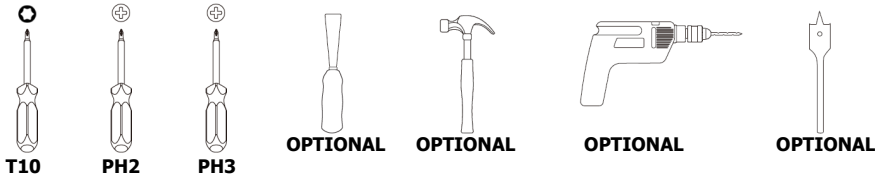
Carefully read the instructions before installing and using this lock.



**WARNING:** If the door needs to be drilled, be familiar with how to safely use your tools, and understand all the door preparation steps before proceeding.

**FINISH & CARE NOTES:** Either remove the locks or do not install them prior to painting your door to protect the finish. Periodically clean the locks with mild soap and a soft cloth. Do not use abrasives or harsh chemicals when cleaning or using the lock.

## 2 Required Tools

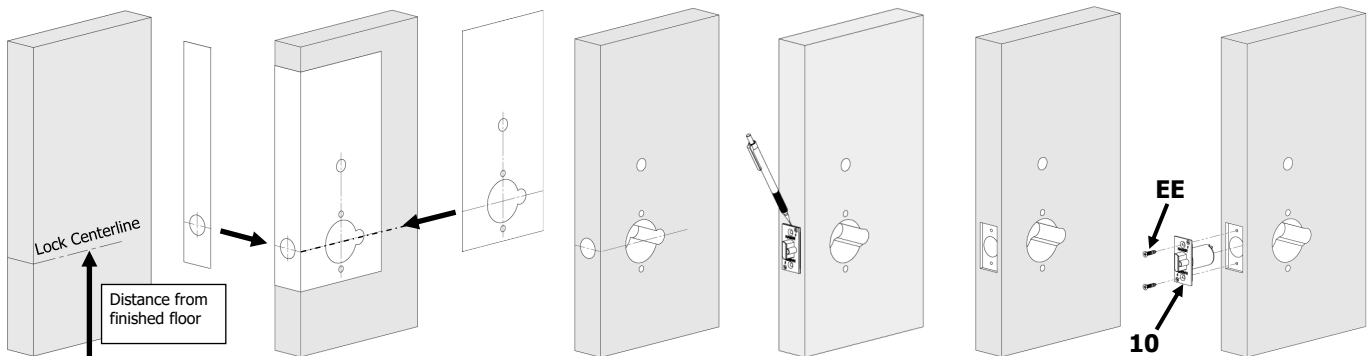


## 3 Prepare Door & Frame / Install Latch & Strike

Skip the prep steps if the door has already been prepared. Just install the latch and strike as shown below.

**1**

Mark the Lever Centerline on the door face and edge at desired distance from the finished floor. Align the template and mark the door, drill the holes. Insert latch, trace around face plate and chisel out a mortise pocket. Use a  $\varnothing 1/8"$  [3.2 mm] pilot holes for 2 EE screws. Install **#10** latch using two #8 screws, **EE**.



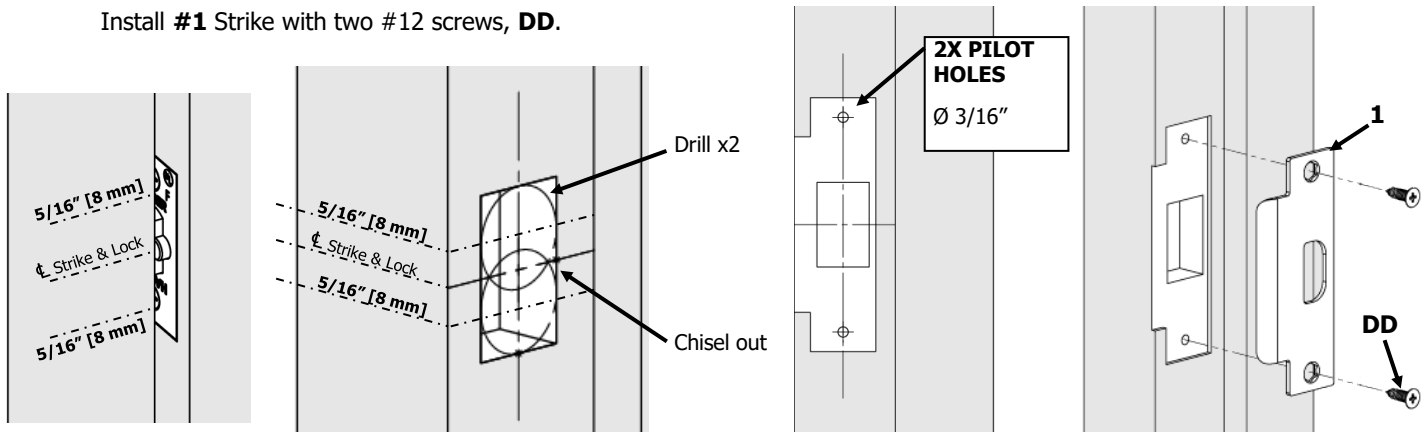
**NOTE:** Drill from both sides to avoid splintering the finished surface of wood doors

**2**

Mark Jamb for strike as shown below. Drill two  $\varnothing 1"$  [25.4 mm] holes  $3/4"$  [19 mm] deep in the jamb  $15/16"$  [8 mm] above and below the horizontal center line and then chisel out. NOTE: To ensure proper lockset function, the hole in the jamb must be drilled a full  $3/4"$  [19 mm] deep.

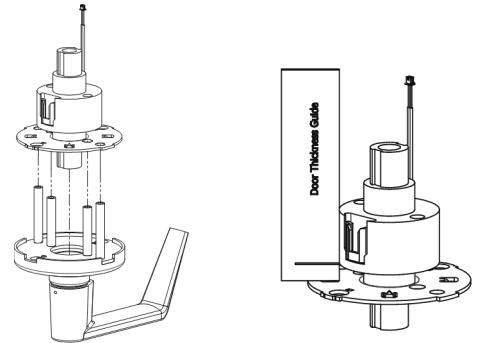
Mark jamb for strike and chisel out to a depth of  $3/32"$  [2.4 mm] or until flush. Drill 2 pilot holes for #12 strike screws.

Install **#1** Strike with two #12 screws, **DD**.

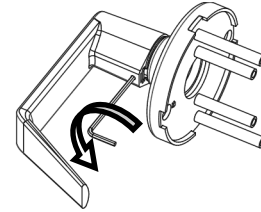


## 4 Prepare Lock Chassis

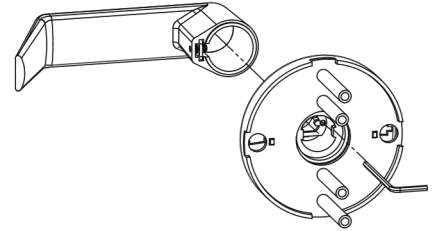
- 1** Remove the lock chassis from the lever assembly and adjust for door thickness if necessary.
  - Note the thickness of the door.
  - If it is thicker than 1.75" [44.5 mm], then adjust the chassis assembly to the proper door thickness using the Door Thickness Guide included with the product.



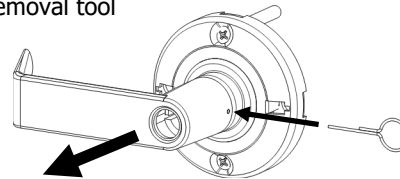
- 2** Remove the lever using the Allen wrench, **AA**.
  - Fully loosen set screw in the base of the lever shown below. Rotate CCW to loosen.



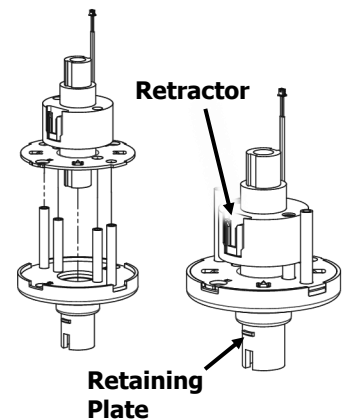
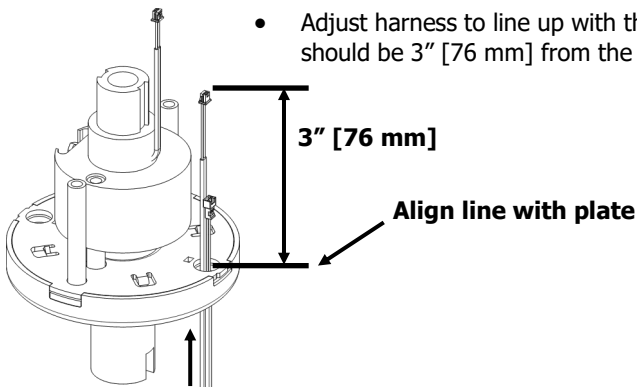
- Then insert the end of the Allen wrench into a hole in the retaining plate below and pull back the plate to release the lever. Remove the lever and set aside.



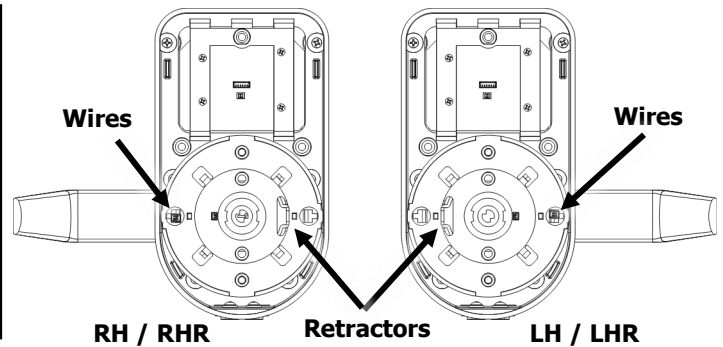
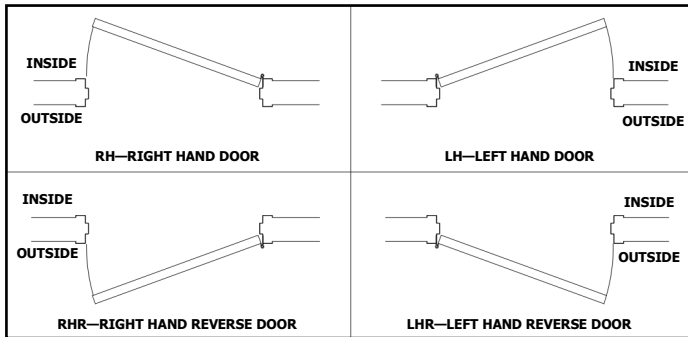
- KEY OVERRIDE ONLY!** To remove the lever, insert lever removal tool BB and pull the lever off. Set the lever aside for later.



- 3** Assemble chassis to spring cage assembly and route wire harness **#19**.
  - Verify the Retractor and Retaining Plate are facing the same direction.
  - Route Wire Harness **#19** (lock to control board) as shown
  - Feed the (2) 2-pin plugs through spring cage assembly. In the back of the spring cage, through the hole behind the retractor as shown below.
    - Adjust harness to line up with the silver line with the face shown. This should be 3" [76 mm] from the end of the longest 2 pin plug.

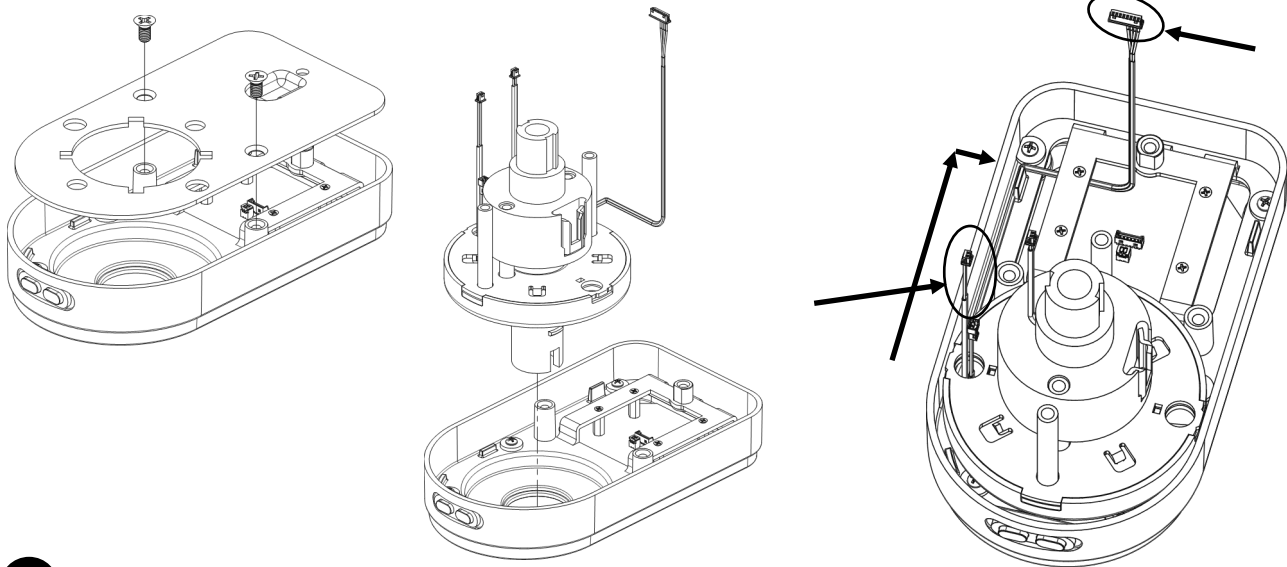


**DOOR HANDING** Determine the handing of your door opening before preparing the exterior escutcheon.

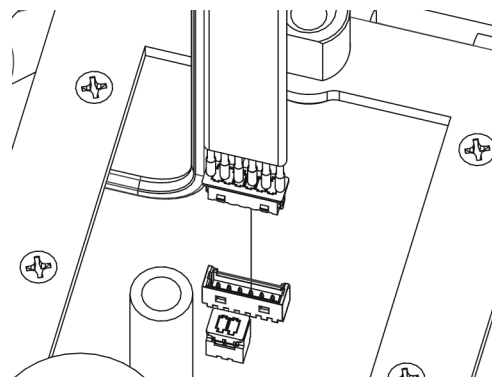
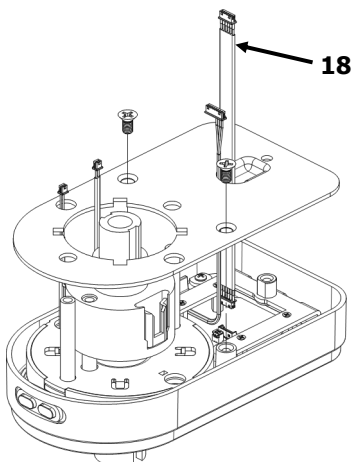


## 5 Prepare Exterior Escutcheon

- 1
  - Remove the back plate from the exterior escutcheon.
  - Note the handing of the door above and assemble the prepared Lock Chassis into the exterior escutcheon.
  - Route the wire harness along the side of the escutcheon and over to the center of the lock as shown.

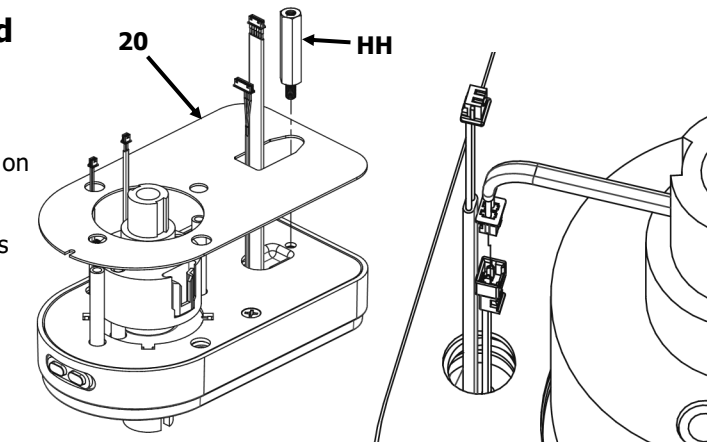


- 2
  - Plug the 6-pin wire harness #18 into the reader board and re-install the back plate.



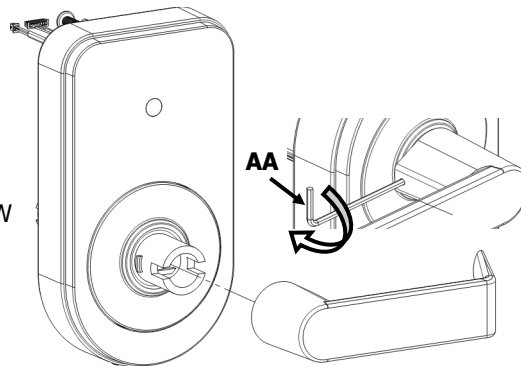
## 5 Prepare Exterior Escutcheon, Continued

- 3**
- Install Hex Standoff **HH**.
  - Install Main Gasket **#20** onto the backplate centered on the escutcheon.
  - Plug 2-pin male wire harness into 2-pin female chassis wire.



- 4**
- Install lever and tighten down the set screw.
  - Press lever onto spindle until it snaps into place.
  - Tighten set screw with allen wrench **AA** by turning CW until set screw bottoms out against the spindle.

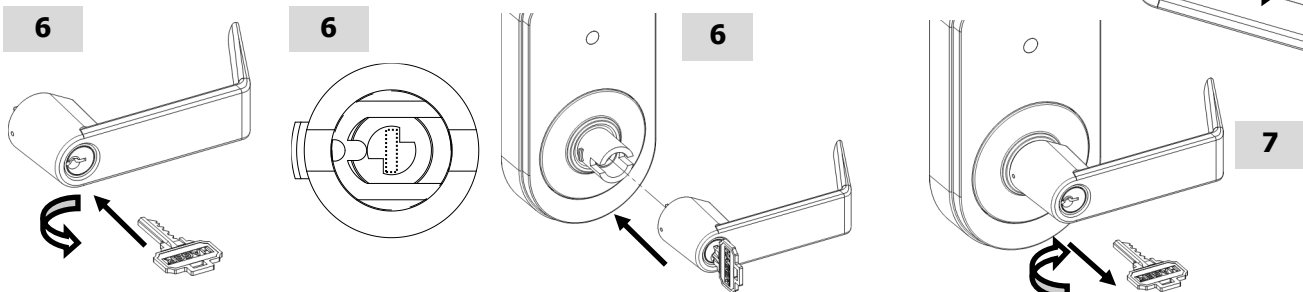
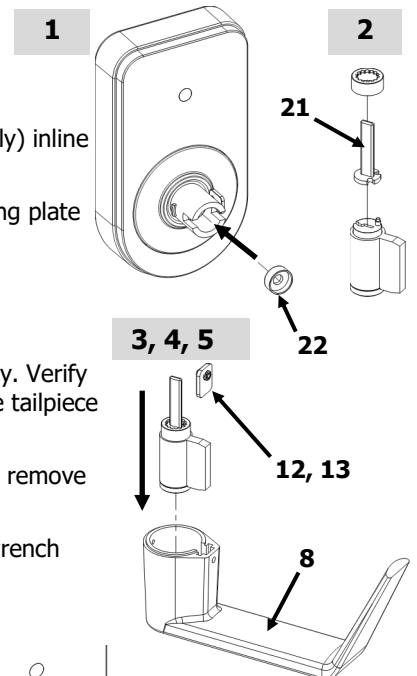
The escutcheon is now ready to install on the door.



### KEY OVERRIDE ONLY!

Install KIK cylinder in lever.

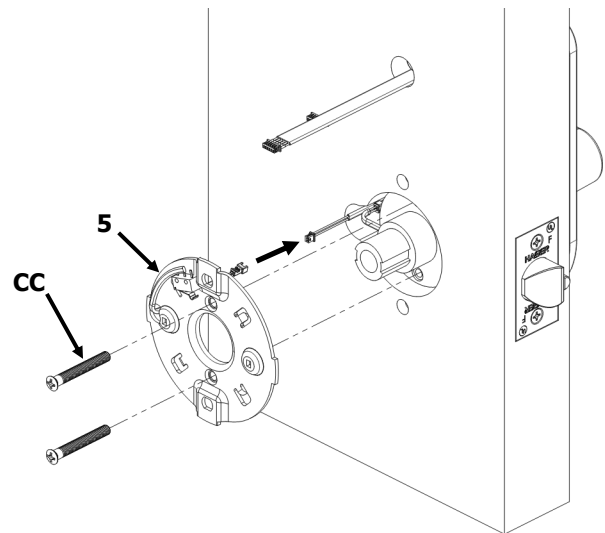
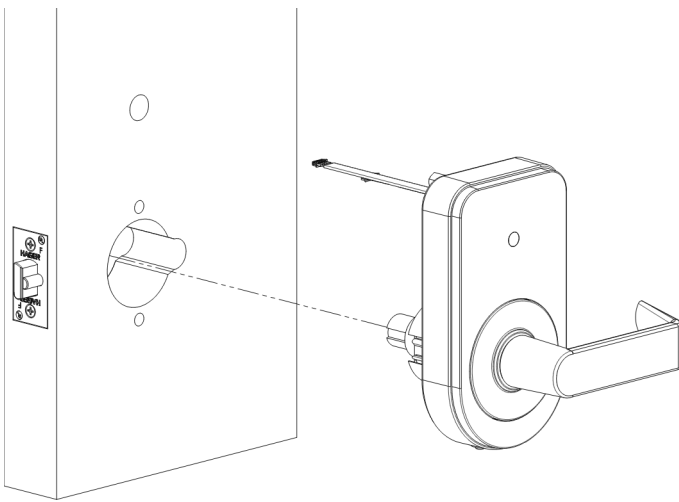
1. Insert the cup **#22** included in the unit box into the exterior spindle as shown.
2. Install tailpiece **#21** included in unit box on the KIK cylinder (purchased separately) inline with the pin bible as shown.
3. Loosen set screw **#12** in lever **#8** with Allen wrench **AA** then remove the retaining plate assembly **#12, 13**.
4. Insert the cylinder into the lever **#8** followed by the retainer assembly **#12, 13**.
5. Turn the set screw CCW until secure to keep the retaining plate in place.
6. Insert the key for the cylinder, turn it 90°, and insert the lever onto the lock gently. Verify the cam in the lock is clear for the now vertical tailpiece to engage. Make sure the tailpiece engages the cam properly and does not get stuck. **DO NOT FORCE THE LEVER.**
7. Once the lever locks onto the spindle, turn the key back to the home position and remove it from the cylinder.
8. Turn the set screw CW until it is tightened down against the spindle using Allen wrench **AA** provided.



## 6 Install Lock on Door

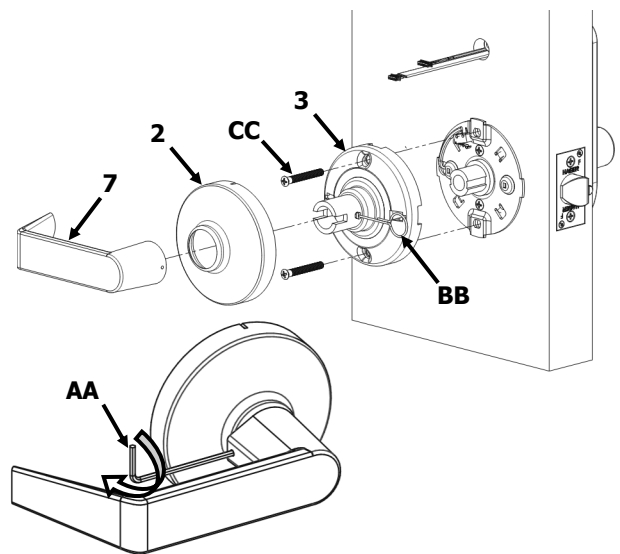
### 1 INSTALL EXTERIOR ESCUTCHEON

- Install escutcheon onto door by guiding wires into wiring hole and the chassis and wires into chassis hole.
- Make sure the retractor engages with the latch.
- Be sure the wires lay in the space provided by the backplate louver so they don't pinch against the door.
- While holding the escutcheon flat against the door, plug interior mounting plate **#5** into wiring harness and stow the wires in the area behind the chassis. Position the plate over the chassis and fasten down with (2) **CC** screws as shown below. Make sure the escutcheon is vertical and flat against the door before tightening down the screws.



### 2 INSTALL INTERIOR TRIM

- Install interior spring cage **#3** with (2) **CC** screws.
- Install interior rose **#2** by aligning grooves in rose and spring cage.
- Be sure lever retaining plate **#13** and set screw **#12** are installed in lever **#7**.
- Install lever **#7** using removal tool **BB** to start the lever. Snap into place and then tighten lever set screw with **AA** Allen wrench.





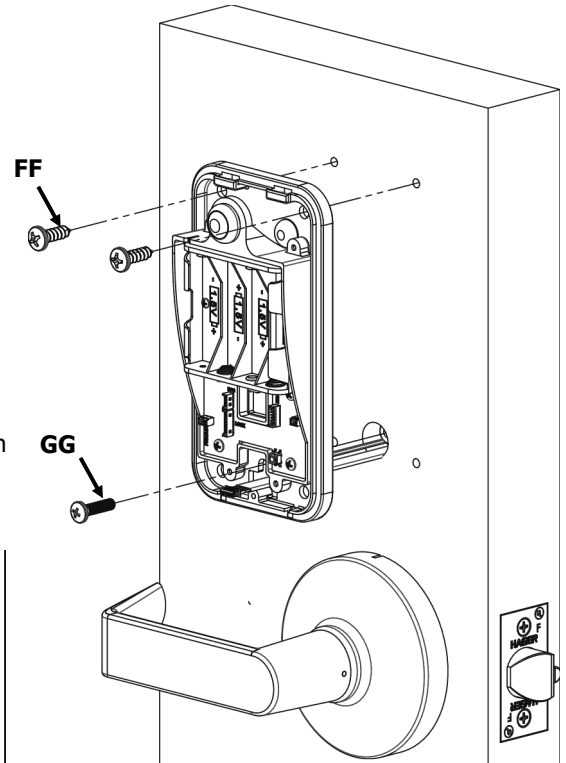
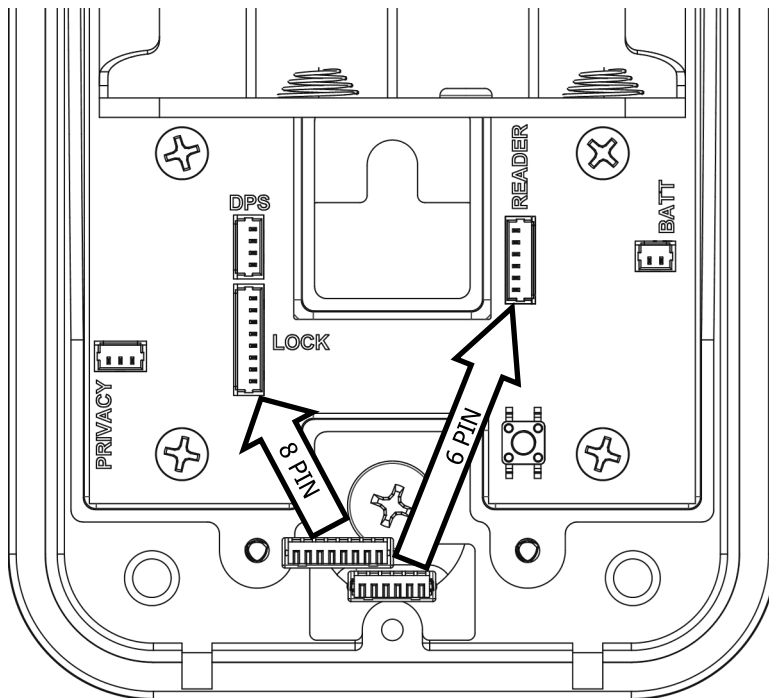
## 6 Install Lock on Door (continued)

### 3 INSTALL POWER PACK

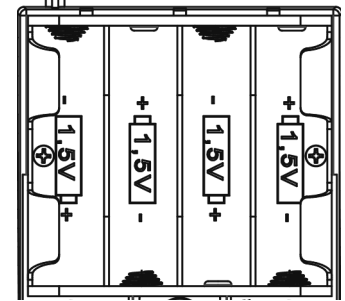
- Remove the cover on the battery pack with a T10 Torx drive screw driver.
- Position the power pack base onto the door aligning the upper mounting holes and routing the wires through the bottom wiring hole.
- While holding the pack, install (2) #12 screws **FF** into the prepared holes as shown below. Leave loose.
- Install #10-32 screw **GG** into hex standoff in the escutcheon as shown.
- Make sure the power pack is straight and vertical then tighten (2) #12 screws **FF** then the #10-32 screw **GG**.

### 4 CONNECT READER AND LOCK

- Plug in the Reader (6-pin) and Lock (8-pin) wire harnesses as shown below.



## 7 Setup Lock



### 1 INSTALL 4 AA BATTERIES

Install the 4 AA batteries in the battery holder. Follow batterie orientation notes in the holder.

- *The lights should blink between red and green*
- *It is now ready to be tested.*

### 2 TEST INSTALLED AND POWERED LOCK

While the lock is powered but before it is adopted into a network, test the lock for functionality.

- *Test procedure for cylindrical*

### 3 UNADOPTED LOCKS (ORPHAN)

While the lock is powered but before it is adopted into a network, the lock will behave as shown below.

- *Locked all the time? Unlocked all the time?*
- *Anyway to unlock? Provide a card for*

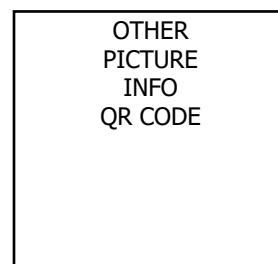
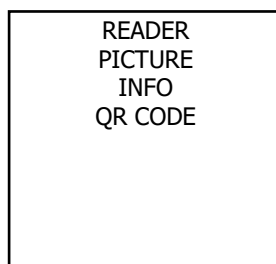
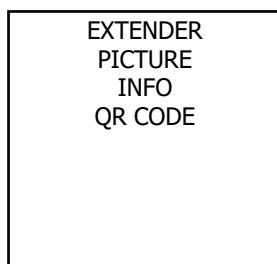
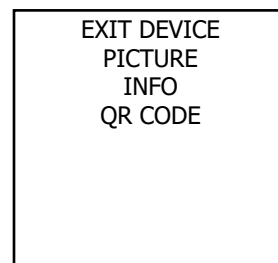
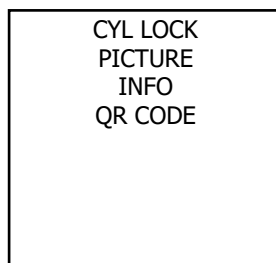
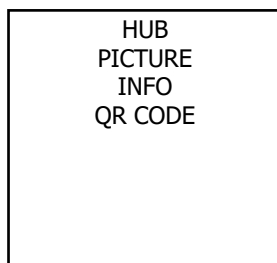
### 4 COMMISSION LOCK

- *GO TO COMMISSIONING PROCEDURE*

### 5 INSTALL COVER

- Install cover, using T10 screw driver

SHOW SELECTION OF OTHER PRODUCTS THAT CAN BE USED  
 WITH THIS LOCK





**FCC Statement:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: —Reorient or relocate the receiving antenna, Increase the separation between the equipment and receiver, Connect the equipment into an outlet on a circuit different from that to which the receiver is connected, Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to the device not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Canada**

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired

To comply with RF exposure requirements, a minimum separation distance of 20cm must be maintained between the user's body and the device.

Cet appareil contient un ou des émetteurs/récepteurs exempts de licence conformes aux normes Innovation, RSS sans licence de Sciences et Développement économique Canada. Le fonctionnement est soumis à la suivant deux conditions :

- (1) Cet appareil ne doit pas provoquer d'interférences.
- (2) Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer des

Pour se conformer aux exigences d'exposition RF, une distance de séparation minimale de 20 cm doit être maintenue entre le corps de l'utilisateur et l'appareil.