

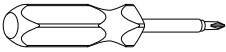
- A Chassis/Outside Spring Cage Assembly
- B Inside Spring Cage Assembly
- C Rose
- D Inside Lever
- E Outside Lever
- F Dead Latch Assembly (PC50, PC53, PC70, PC80)
- G Spring Latch Assembly (PC10, PC40)
- H Push Button Plunger Assembly (PC40, PC50)
- I Push-Turn Button Plunger Assembly (PC53)
- J Storeroom Function Plunger (PC80)
- L Outside Button Bedroom/Bathroom Function (PC40)
- M Strike Assembly
- N Pin Wrench, included
- P Timing Tool, included (PC70 only)
- R Cylinder (PC50, PC53, PC70, PC80)

## INDEX

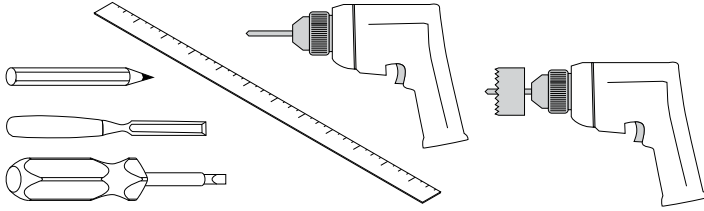
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## TOOLS

### Tools required:



### Optional tools:



Pin wrench (included)

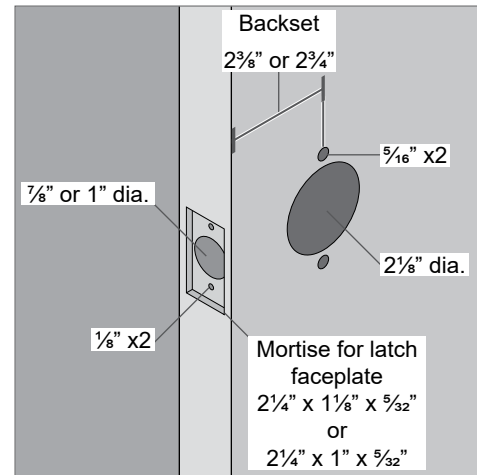


Timing tool (included)  
PC70 only

## INSTALLATION PREPARATION

### Door preparation:

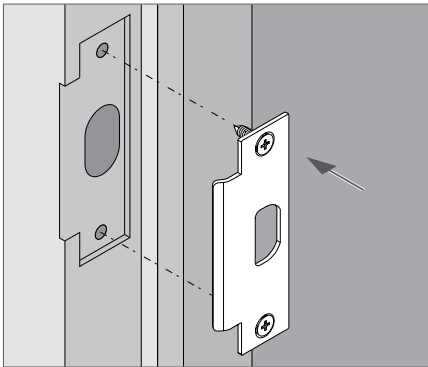
Before installation, check the door for proper preparation.



To prepare a door, use the template included in the package with the lock. For additional information, visit the website [www.allegion.com/us](http://www.allegion.com/us) or contact technical support at 877-671-7011 (U.S.) or 800-900-4734 (Canada).

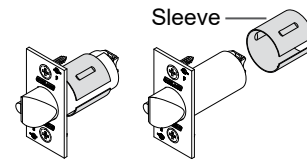
## BASIC LOCK INSTALLATION

### 1 Install strike



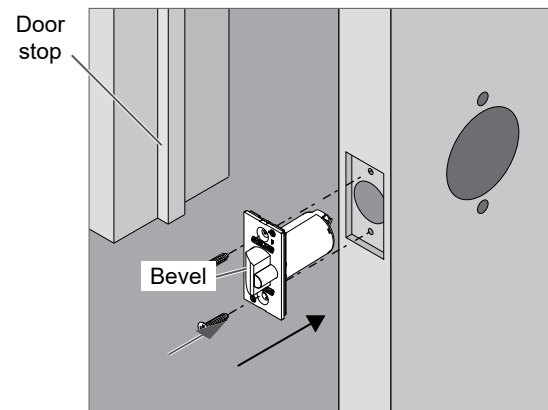
### 2 Install latch

2a **For 7/8" latch bore ONLY**, remove the latch sleeve.



① **Grade 1 latches only fit a 1" bore and do not have a latch sleeve.**

2b Install the latch with bevel facing toward the door stop.



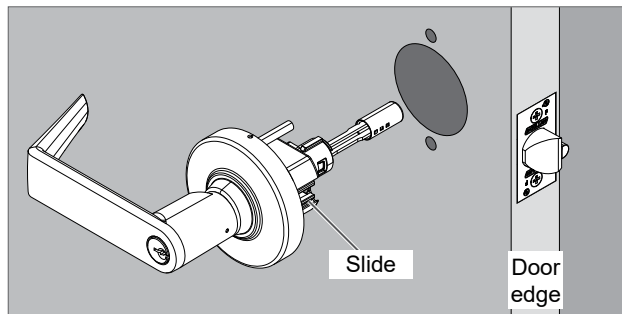
**Note:** For installation on unreinforced hollow metal doors, use of door spacer (part number 24483760) is recommended.

### 3 Install chassis/outside spring cage assembly

Slide faces toward door edge.

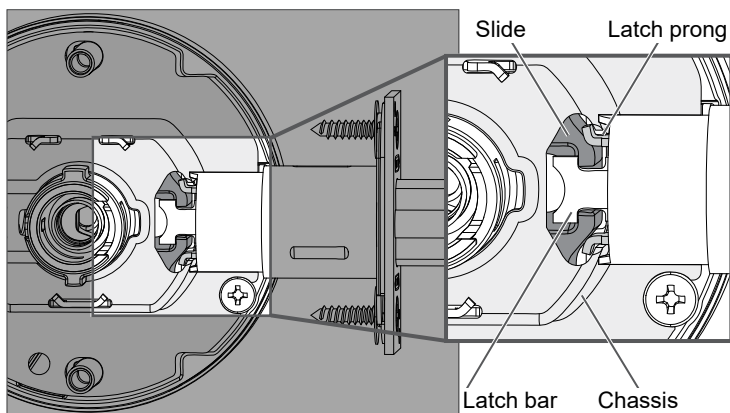
#### WARNING

- ① For mechanical function locks with an RX switch on doors less than 1½" thick, spacers are required for installation on both sides of the door. For spacer installation, go to page 11.



PC50 shown

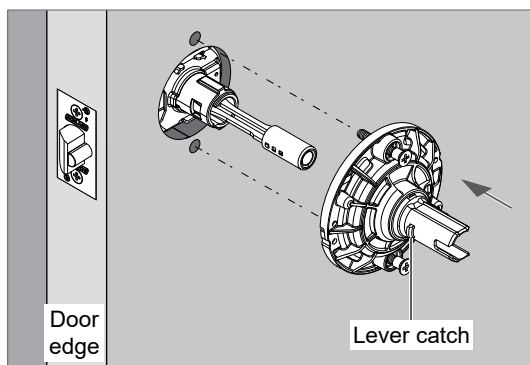
**IMPORTANT!** Latch prongs fit above and below the slide and inside the chassis housing.



### 4 Install inside spring cage assembly

Fully tighten mounting screws.

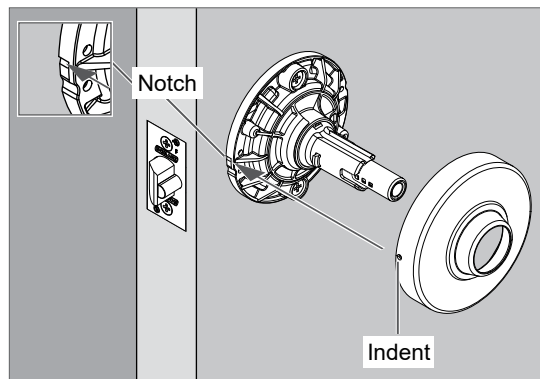
Lever catch faces door edge.



PC50 shown

### 5 Install inside rose

- 5a Align the indent on the rose with the upper notch on the spring cage.

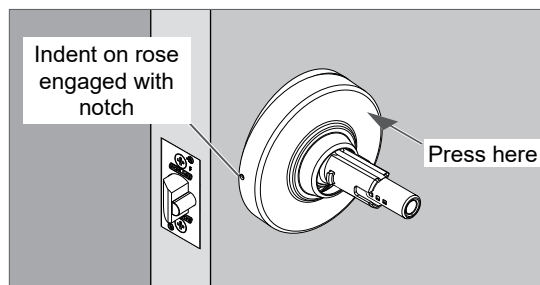


PC50 shown

- 5b Place the indent on the notch with the opposite side of the rose angled slightly away from the spring cage as shown.

Then, press the other side of the rose into place.

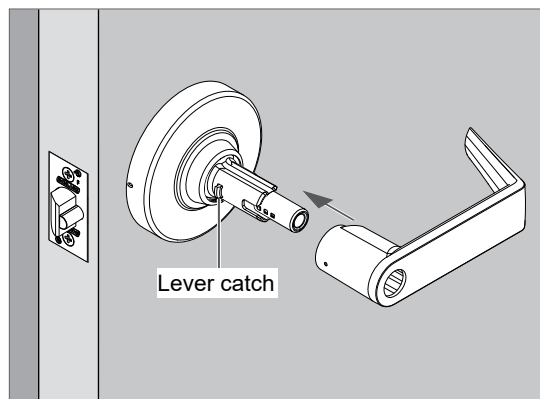
You should hear a click as the rose is pressed into place.



### 6 Install inside lever

Push the inside lever onto the spindle.

Be sure to engage the lever catch.



PC50 shown

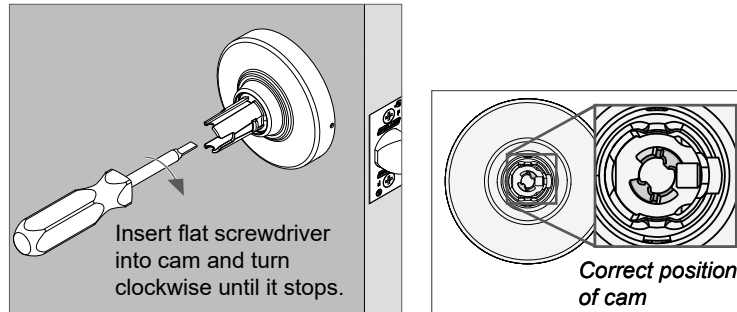
## CYLINDER INSTALLATION

- ① The following pages describe key cylinder installation. Cylinder installation for models PC50, PC53, PC70 and PC80 are shown. Once assembled, refer to “BASIC LOCK INSTALLATION” on page 2 for installation on the door.

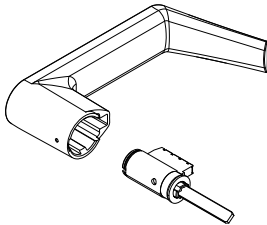
Install KIL (key-in-lever) cylinder with outside lever –  
PC50, PC53 & PC80 ONLY For PC70, see page 6.

See next page for IC (interchangeable core) cylinder installation.

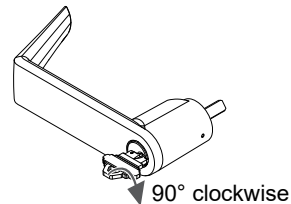
1. Adjust the cam position using a flat screwdriver.



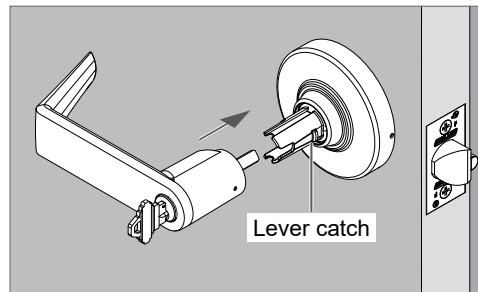
2. Place the cylinder assembly into the lever.



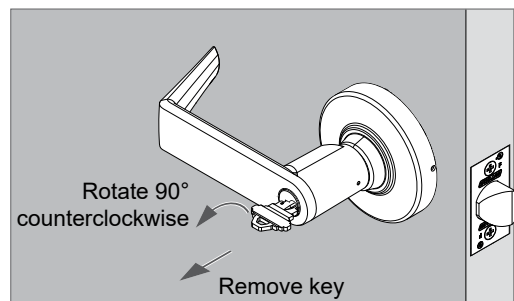
3. Insert the key and rotate 90 degrees clockwise.



4. With key still rotated 90 degrees clockwise, push outside lever onto the spindle.  
Be sure to engage the lever catch.



5. Rotate the key counterclockwise back to the starting position and remove the key.

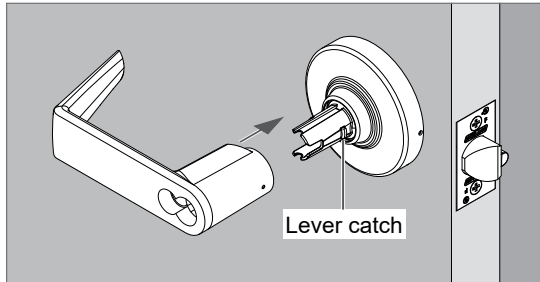


## Install IC cylinder with outside lever – PC50, PC53, & PC80 ONLY

For PC70 IC cylinder, see page 7

1. If the outside lever is not installed, push the lever onto the spindle.

Be sure to engage the lever catch.

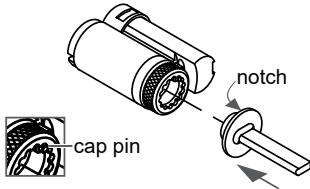


2. Install IC cylinder tailpiece.

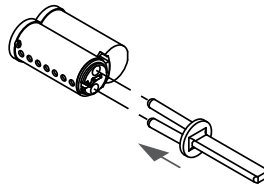
Push tailpiece until it snaps into place.

**FSIC cylinder:**

Align notch with cap pin.

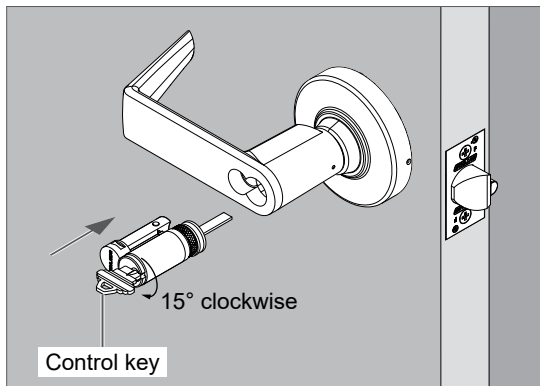


**SFIC cylinder:**

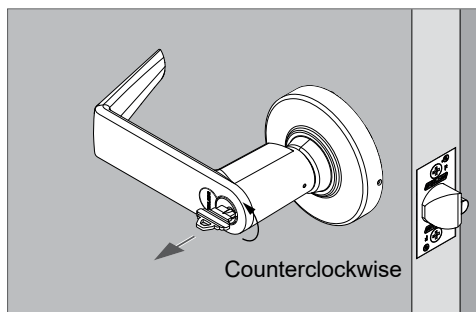


3. Insert the control key into the cylinder and rotate 15 degrees clockwise.

Then, insert the cylinder assembly into the lever.

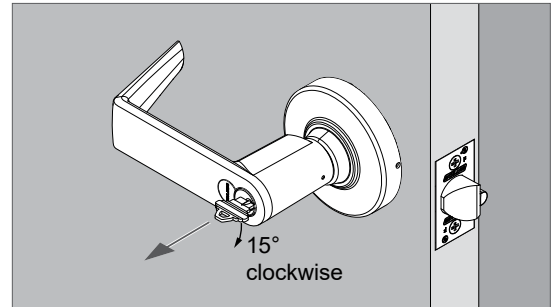


4. Rotate the key counterclockwise until it stops and remove the key from the cylinder.



### To remove IC cylinder:

Insert the control key and turn it 15 degrees clockwise, then remove cylinder.



## PC70 CYLINDER INSTALLATION

- ❶ **IMPORTANT! The following steps apply ONLY to PC70 locks.** PC70 locks include a unique cylinder tailpiece. The following steps must be used for correct cylinder installation and lock performance.
- ❶ **PC70 locks require timing before cylinder installation. The Timing Tool should be used to time the lock (included with PC70 configured locks and function kits). If the timing tool is not available, see page 8.**

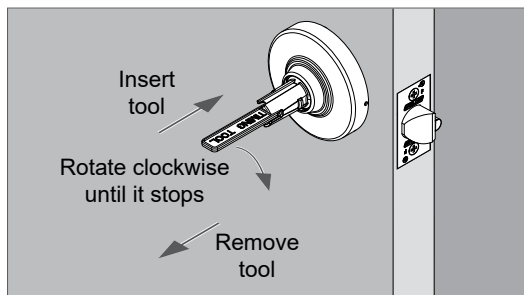
### Install outside lever with KIL (key-in-lever) cylinder, PC70 function ONLY

1. Insert the timing tool (horizontal position) into the lever spindle **until the tool bottoms out.**

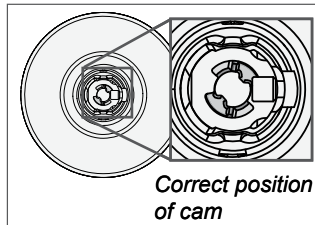
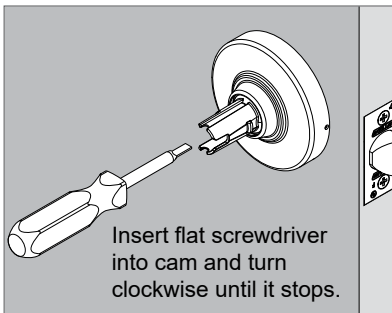
If the timing tool is not available, see page 8.

2. Rotate the timing tool **clockwise until it stops.** The tool handle **should be horizontal when it stops.**

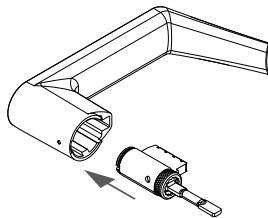
3. Remove the timing tool.



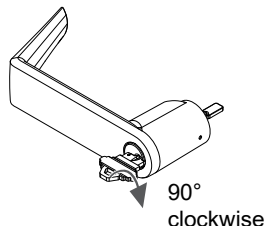
4. Adjust the keycam position using a flat screwdriver.



5. Place the cylinder assembly into the lever.

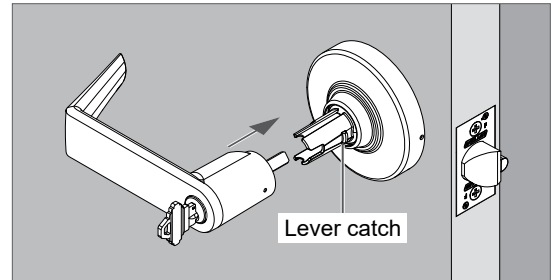


6. Insert the key and rotate 90 degrees **clockwise**.

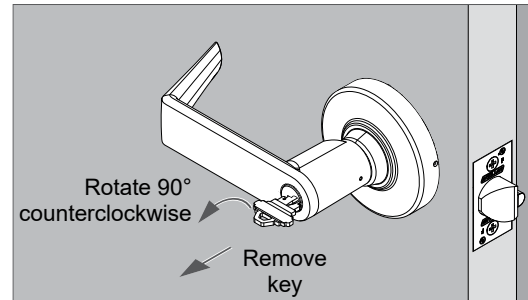


7. With key still rotated 90 degrees clockwise, push the outside lever onto the spindle.

Be sure to engage the lever catch.



8. Rotate the key counterclockwise back to the starting position and remove the key.



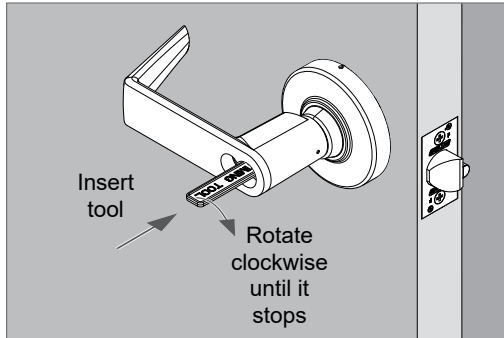
- ① **IMPORTANT! The following steps apply ONLY to PC70 locks.** PC70 locks include a unique cylinder tailpiece. The following steps must be used for correct cylinder installation and lock performance.
- ① **PC70 locks require timing before cylinder installation. The Timing Tool should be used to time the lock (included with PC70 configured locks and function kits). If the timing tool is not available, see page 9.**

#### Install IC cylinder into outside lever, PC70 function ONLY

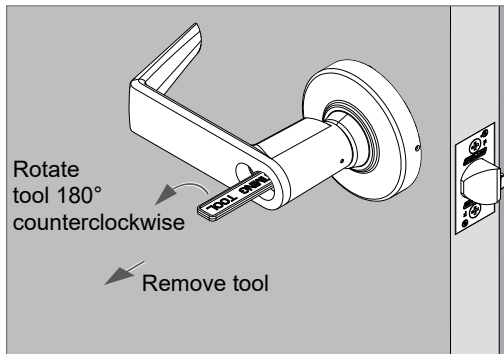
1. Insert the timing tool (horizontal position) into the lever **until the tool bottoms out.**

If the timing tool is not available, see page 9.

2. Rotate the timing tool **clockwise** until it stops. The tool handle should be horizontal when it stops.



3. Rotate the timing tool **180 degrees counterclockwise**. Then remove the timing tool.

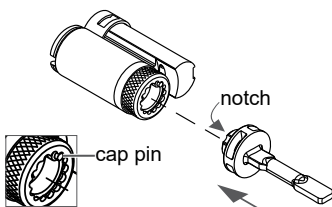


4. Install cylinder tailpiece.

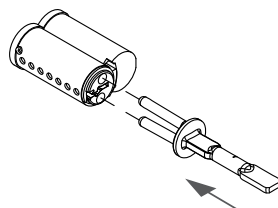
Push tailpiece until it snaps into place.

#### FSIC cylinder:

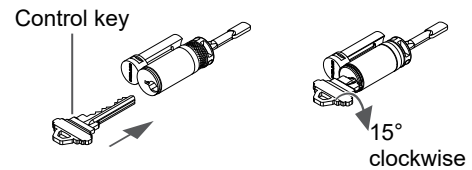
Align notch with cap pin.



#### SFIC cylinder:

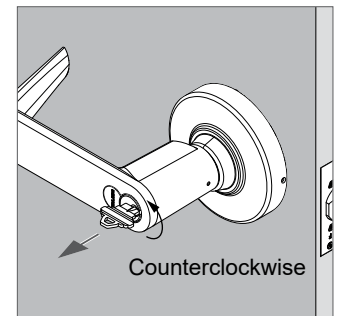
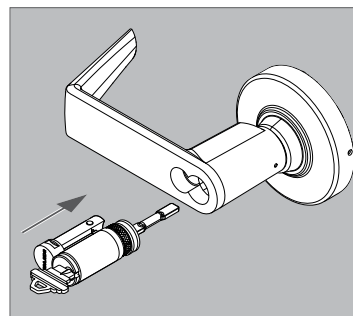


5. Insert the CONTROL KEY into the cylinder and turn 15 degrees clockwise.



6. Place the cylinder into the outside lever.

Then turn the key counterclockwise until it stops and remove the key.

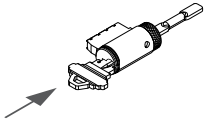


❶ **IMPORTANT! The following steps apply ONLY to PC70 locks.** PC70 locks include a unique cylinder tailpiece. The following steps must be used for correct cylinder installation and lock performance.

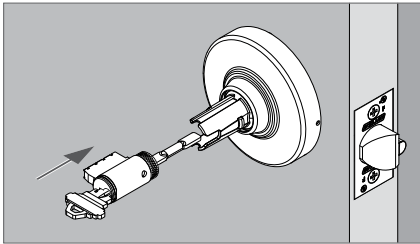
❶ **PC70 locks require timing before cylinder installation. Follow these steps ONLY IF THE TIMING TOOL IS NOT AVAILABLE.** If the timing tool is available, follow steps starting on page 6.

### Install outside lever with KIL (key-in-lever) cylinder, PC70 function

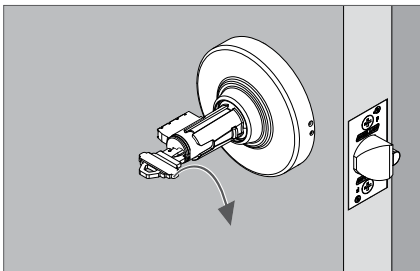
1. Insert key into cylinder.



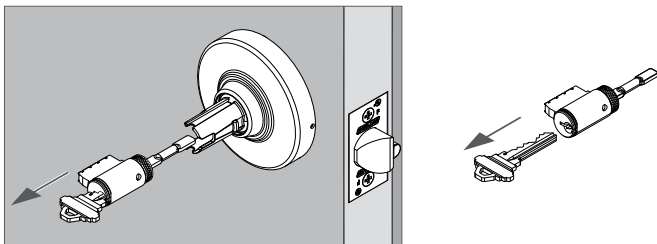
2. Place the cylinder with key into the outside lever spindle **until it bottoms out**.



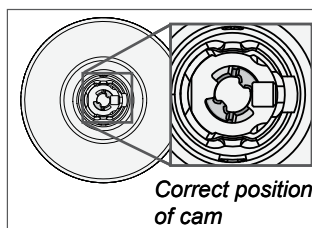
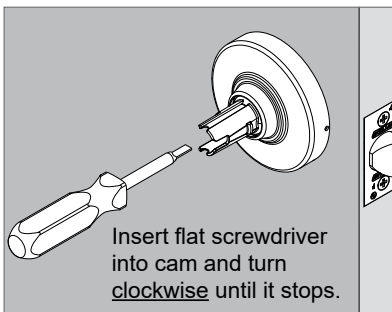
3. Turn the key clockwise until it stops. The **key should be horizontal when it stops**.



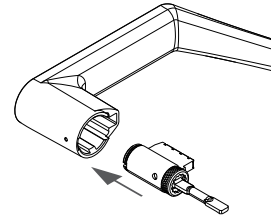
4. Remove cylinder and remove key from cylinder.



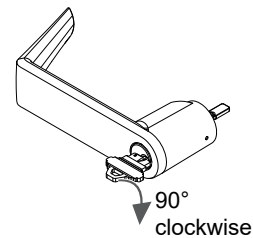
5. Adjust the keycam position using a flat screwdriver.



6. Place the cylinder assembly into the lever.

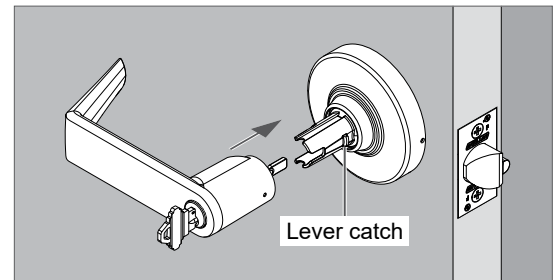


7. Insert the key and rotate 90 degrees clockwise.

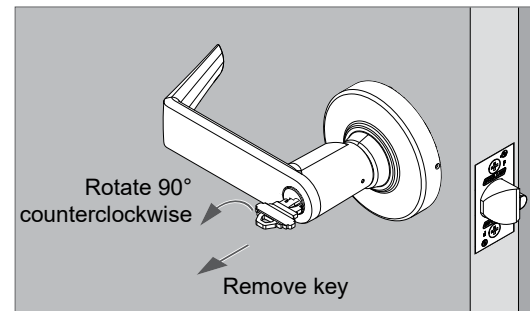


8. With key still rotated 90 degrees clockwise, install the outside lever onto the spindle.

Be sure to engage the lever catch.



9. Rotate the key counterclockwise back to the starting position and remove the key.

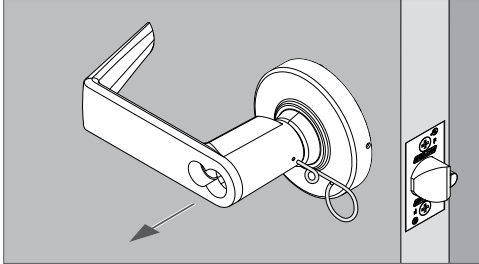




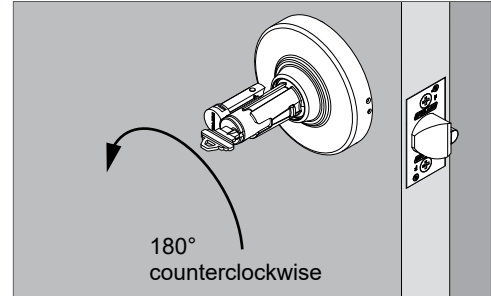
- ❶ **IMPORTANT! The following steps apply ONLY to PC70 locks.** PC70 locks include a unique cylinder tailpiece. The following steps must be used for correct cylinder installation and lock performance.
- ❶ **PC70 locks require timing before cylinder installation. Follow these steps ONLY IF THE TIMING TOOL IS NOT AVAILABLE.** If the timing tool is available, follow steps starting on page 7.

### Install IC cylinder with outside lever, PC70 function

1. Remove the outside lever if it was pre-installed.  
Pull off the lever while pushing on the pin wrench.



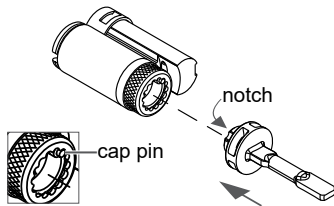
6. Rotate the key counterclockwise 180 degrees.



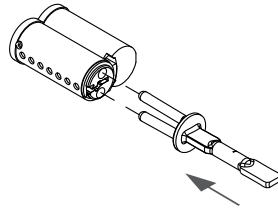
2. Install cylinder tailpiece.  
Push tailpiece until it snaps into place.

#### FSIC cylinder:

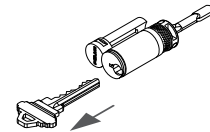
Align notch with cap pin.



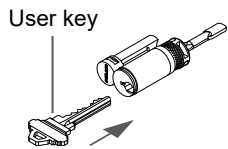
#### SFIC cylinder:



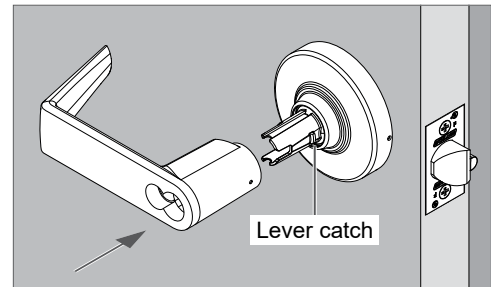
7. Remove cylinder and remove key from cylinder.



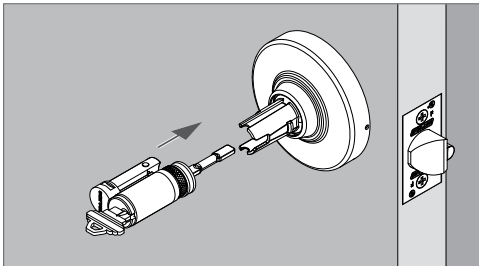
3. Insert the USER KEY into the cylinder.



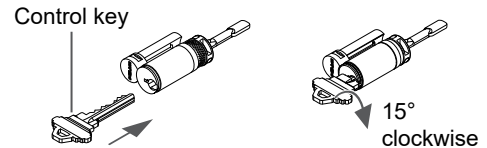
8. Install the lever onto the spindle.  
Be sure to engage the lever catch.



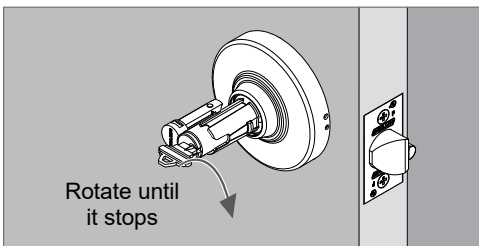
4. Place the cylinder with key into the outside lever spindle until it bottoms out.



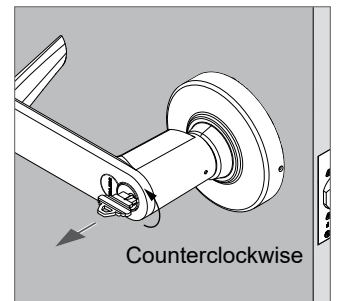
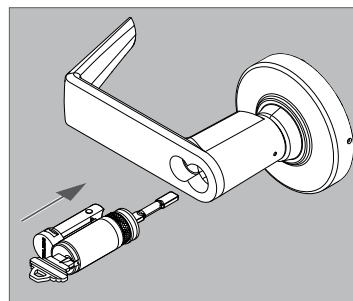
9. Insert the CONTROL KEY into the cylinder and turn 15 degrees clockwise.



5. Rotate the key clockwise until it stops. The key should be horizontal when it stops.



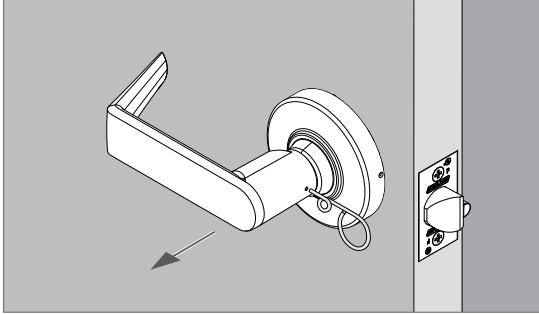
10. Place the cylinder into the outside lever. Then, turn the key counterclockwise until it stops and remove the key.



## LOCK DISASSEMBLY

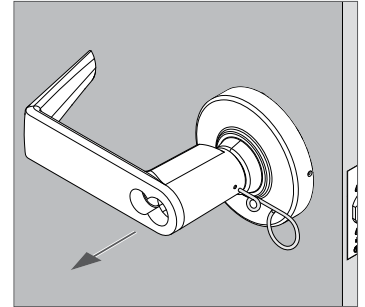
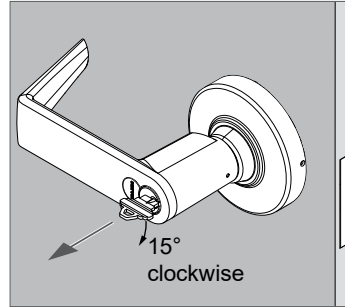
### Closed lever

1. Push the lever catch with the pin wrench.
2. Pull off the lever while pushing on the pin wrench.



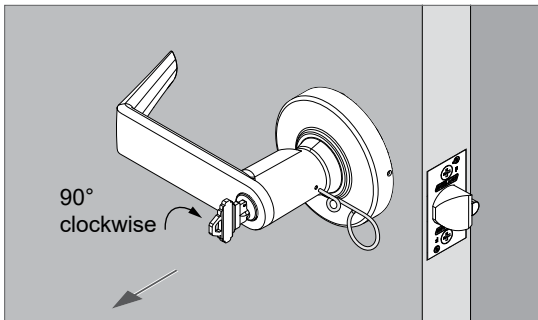
### Lever with IC cylinder

1. Insert control key and turn 15 degrees clockwise.
2. Pull out the cylinder.
3. Push the lever catch with the pin wrench.
4. Pull off the lever while pushing on the pin wrench.



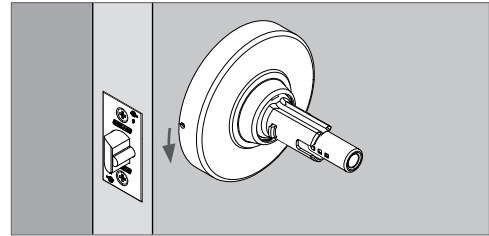
### Lever with KIL cylinder

1. Insert key and turn 90 degrees clockwise.
2. Push the lever catch with the pin wrench.
3. Pull off the lever while pushing on the pin wrench.



### Rose

1. Rotate the rose counterclockwise approximately 10°.
2. Then, remove the rose.



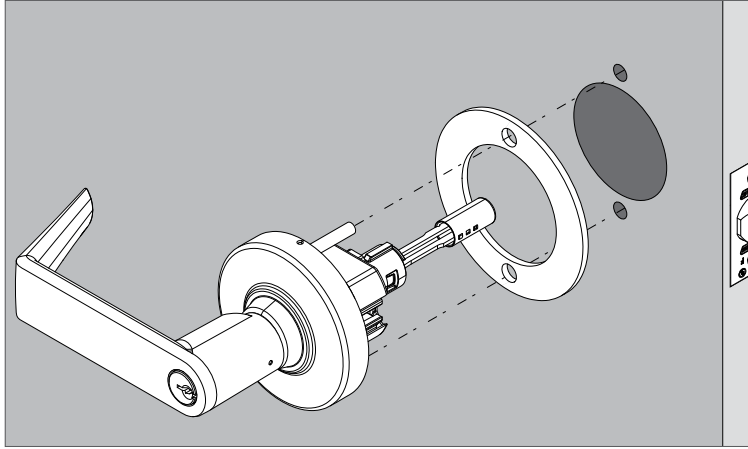
## SPACERS

① **Thin door spacers are required on PC mechanical function locks with RX switch on doors less than 1½" thick.**

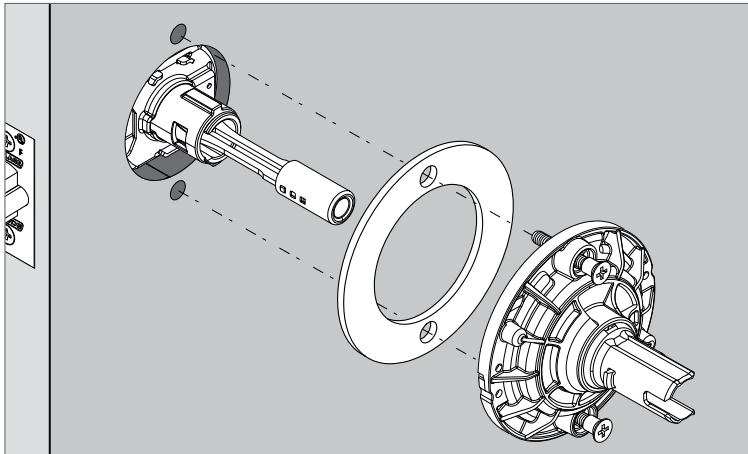
When using spacers, one for each side is needed.

Part Number	Description	Door Range
48241041	KIT, SPACER, ROUND ROSES, 1-3/8" to < 1-1/2"	1-3/8" to < 1-1/2"
48241042	KIT, SPACER, ROUND ROSES, 1-1/2" to < 1-5/8"	1-1/2" to < 1-5/8"

A



B



## LOCK FUNCTIONAL TESTING

### NOTICE

Test the lock with the door open to prevent being locked out.

### Customer Service (U.S.)

1-877-671-7011

[www.allegion.com/us](http://www.allegion.com/us)

### Customer Service (Canada)

1-800-900-4734

[www.allegion.ca](http://www.allegion.ca)

### Warranty

<https://alle.co/commwarranty>

#### PC10 Passage Function

1. Rotate inside lever. Rotation should be smooth and latch should retract.
2. Rotate outside lever. Rotation should be smooth and latch should retract.

#### PC40 Bathroom/Bedroom Function

1. Push the inside button to lock the outside lever. Check that the outside lever is locked.
2. Rotate the inside lever to release the button and unlock the outside lever. Check that the outside lever is unlocked.
3. Push the inside push button to relock the outside lever. Check that the outside lever is locked.
4. Using a flat screwdriver, rotate the outside emergency turn to release the inside button. Check that the outside lever is unlocked.
5. The inside lever should always be unlocked and rotate freely.

#### PC50 Entrance/Office Function

1. Push the inside push button to lock the outside lever. Check that the outside lever is locked.
2. Rotate the inside lever to release the button and unlock the outside lever. Check that the outside lever is unlocked.
3. Push the inside push button to relock the outside lever. Check that the outside lever is locked.
4. Use the outside key to retract the latch and release the push button. Check that the outside lever is unlocked.
5. The inside lever should always be unlocked and rotate freely.

#### PC53 Entrance Function

1. Push the inside push-turn button to lock the outside lever. Check that the outside lever is locked.
2. Rotate the inside lever to release the button and unlock the outside lever. Check that the outside lever is unlocked.
3. Push the inside push-turn button to relock the outside lever. Check that the outside lever is locked.
4. Use the outside key to retract the latch and release the push-turn button. Check that the outside lever is unlocked.
5. Push and turn the inside push-turn button 90 degrees clockwise to lock the outside lever. Check that the outside lever is locked.
6. Use the outside key to retract the latch. The push-turn button should stay in the locked (depressed and turned) position.
7. Rotate the inside push-turn button 90 degrees counterclockwise and then rotate the inside lever to release the inside push-turn button and unlock the outside lever. Check that the outside lever is unlocked.
8. The inside lever should always be unlocked and rotate freely.

#### PC70 Classroom Function

1. Turn the outside key 180 degrees counterclockwise, then turn key 180 degrees clockwise (back to start position) to lock the outside lever. Check that the outside lever is locked.
2. Turn the outside key 180 degrees clockwise, then turn key 180 degrees counterclockwise (back to start position) to unlock the outside lever. Check that the outside lever is unlocked.
3. The inside lever should always be unlocked and rotate freely.

**Note:** Key will not rotate 360 degrees.

#### PC80 Storeroom Function

1. Check that the outside lever is fixed/locked.
2. Use the outside key to retract the latch.
3. The inside lever should always be unlocked and rotate freely.