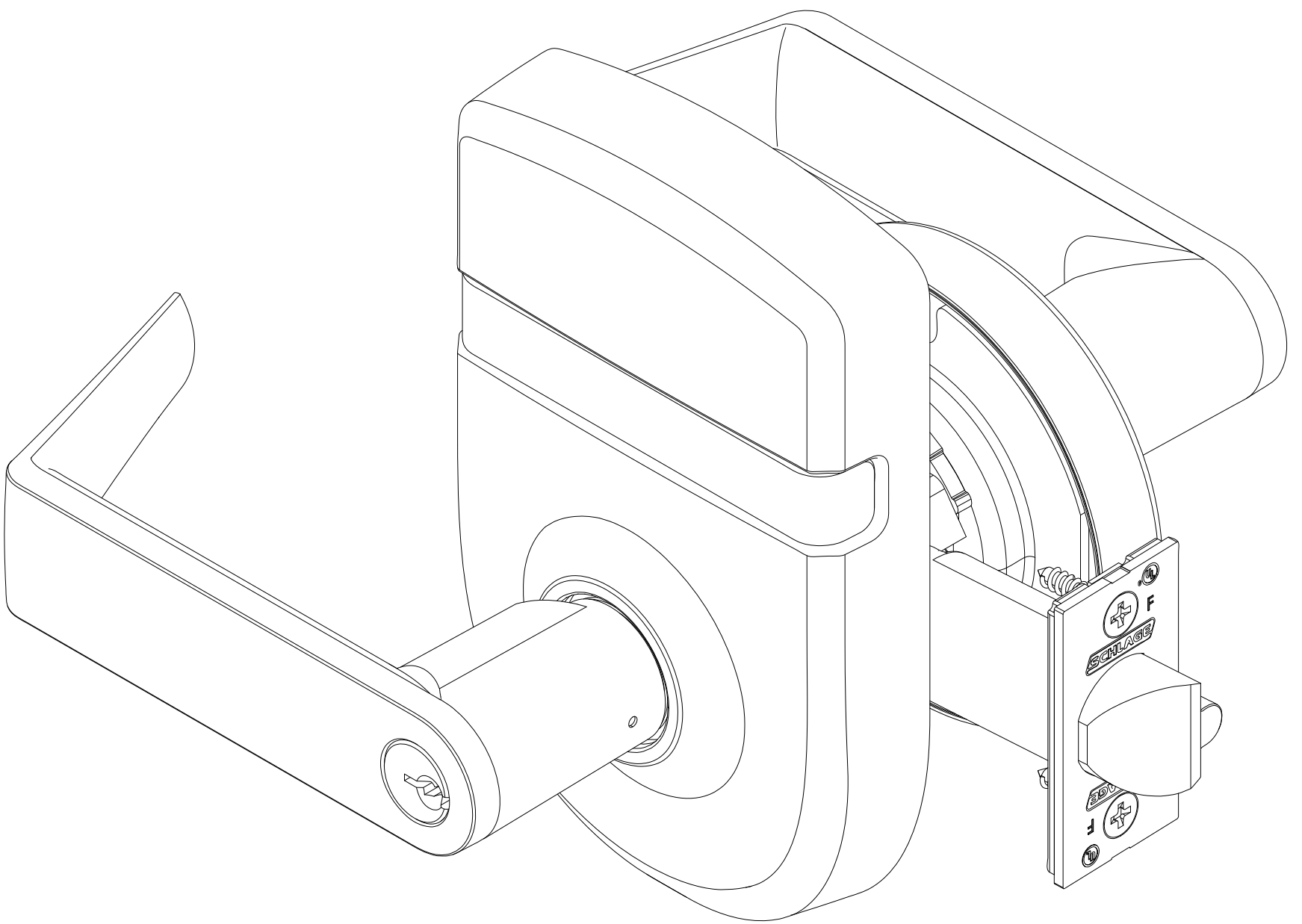


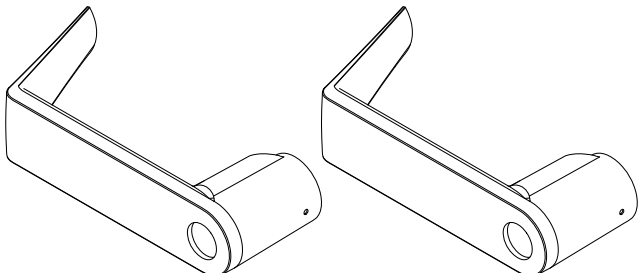
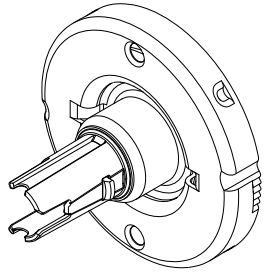
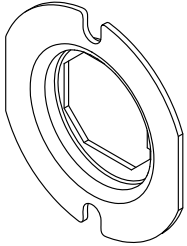
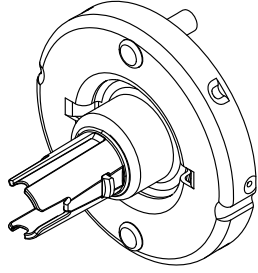
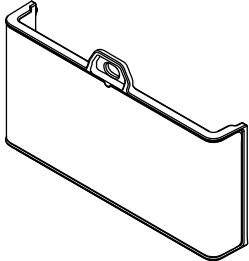
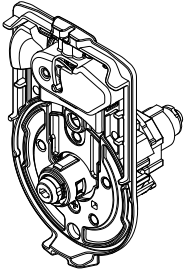
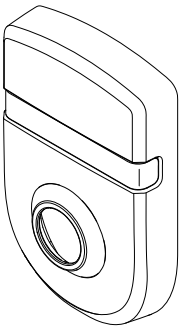
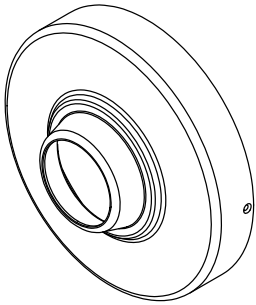
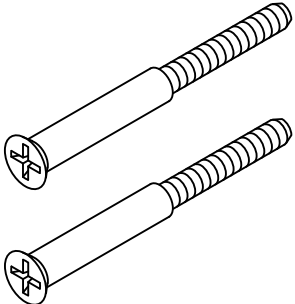
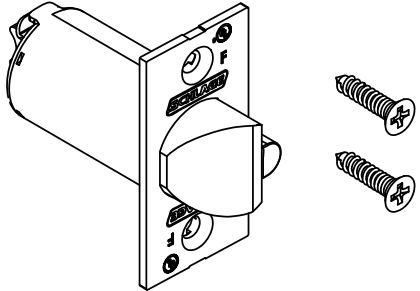
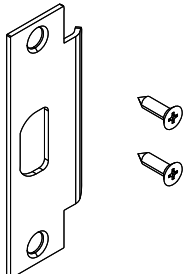
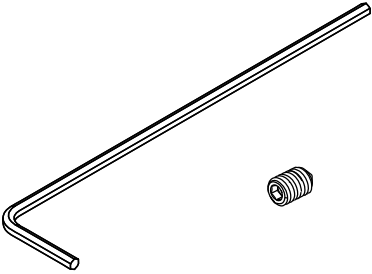
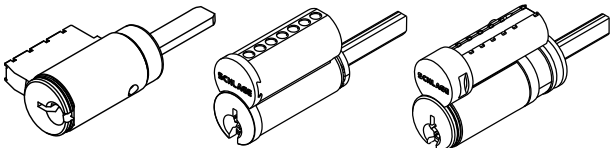


ND78-Series

Installation Instructions



Part Identification

<p>Inside & Outside Handle</p>	<p>Inside Spring Cage</p>
	
<p>Anti-Rotation Plate</p>	<p>Outside Spring Cage</p>
	
<p>Indicator Sign</p>	<p>Chassis</p>
	
<p>Escutcheon</p>	<p>Rose</p>
	
<p>Mounting Screws</p>	<p>Latch</p>
	
<p>Strike Plate</p>	<p>Hex Wrench & Escutcheon Set Screw</p>
	
<p>Key Cylinders</p>	
	

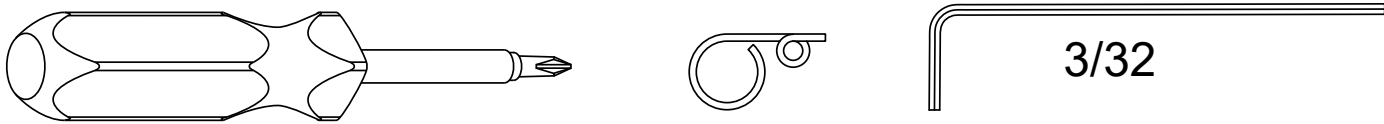
Installation Preparation

Door preparation:

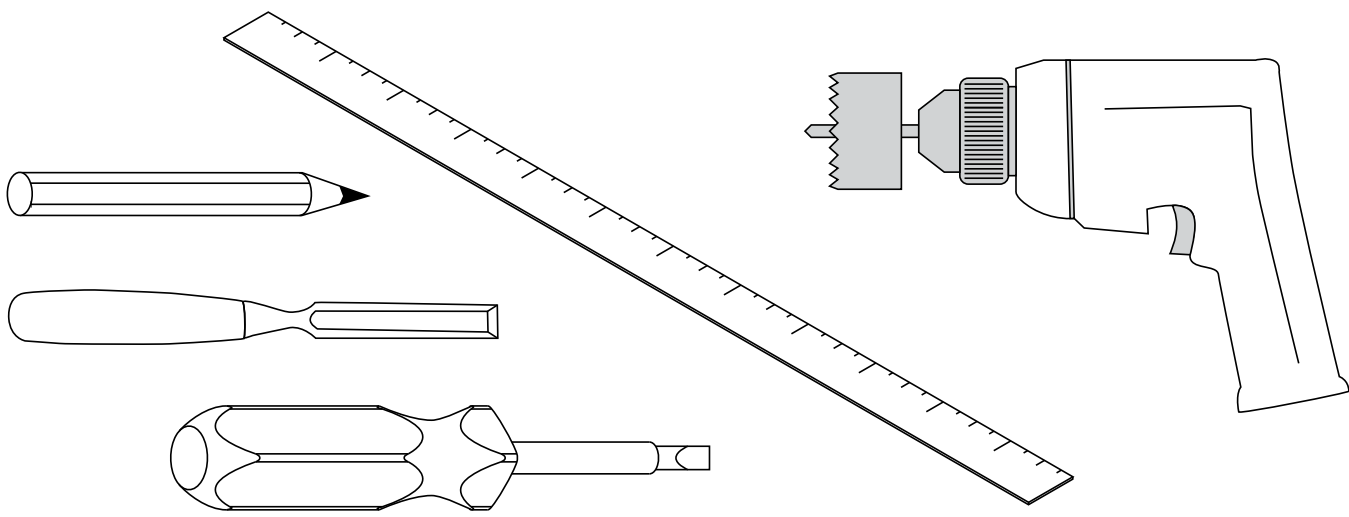
For door preparation use the template included in the package with the lock. For additional information, visit the website www.allegion.com/us.

Tools for Install

Required:



Optional:

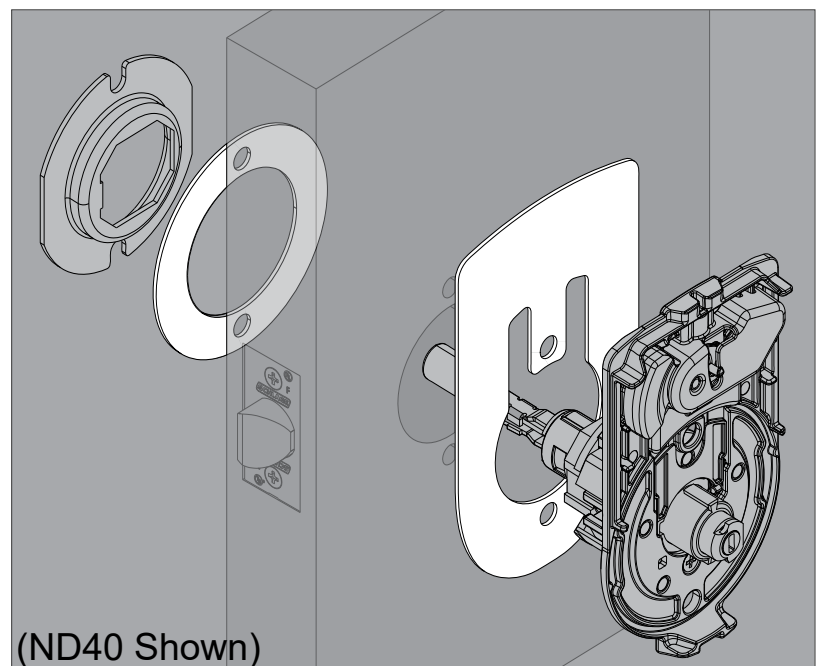


IMPORTANT – DOOR THICKNESS

This lock function is only compatible with 1-3/4" door thickness.

For thinner door applications, refer to these spacer kits:

Door Thickness	PN
1 ³ / ₈ " TO 1 ¹ / ₂ "	48029970
1 ¹ / ₂ " TO 1 ⁵ / ₈ "	48029971
1 ⁵ / ₈ " TO 1 ¹¹ / ₁₆ "	48029972

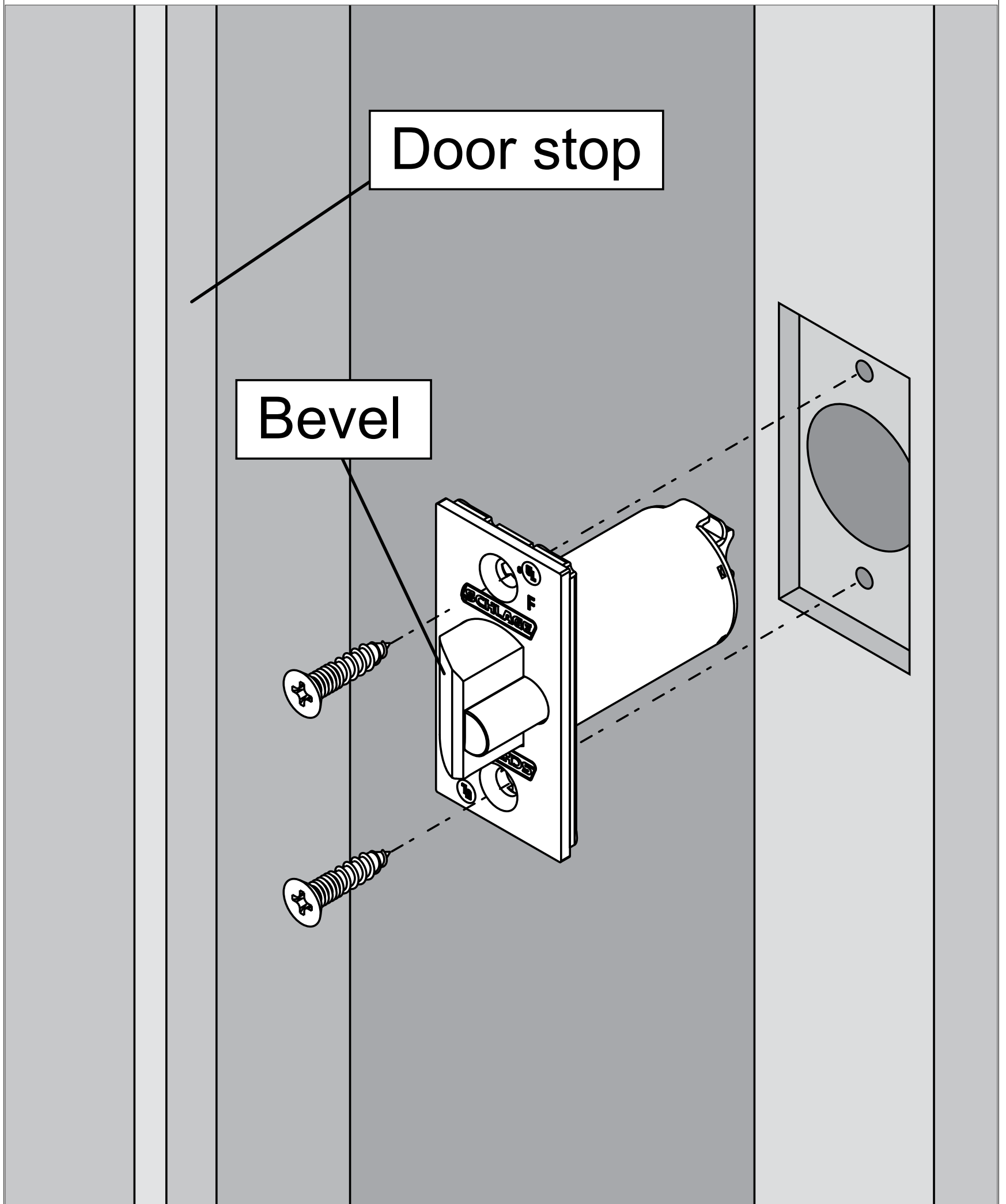


(ND40 Shown)

1 Install latch

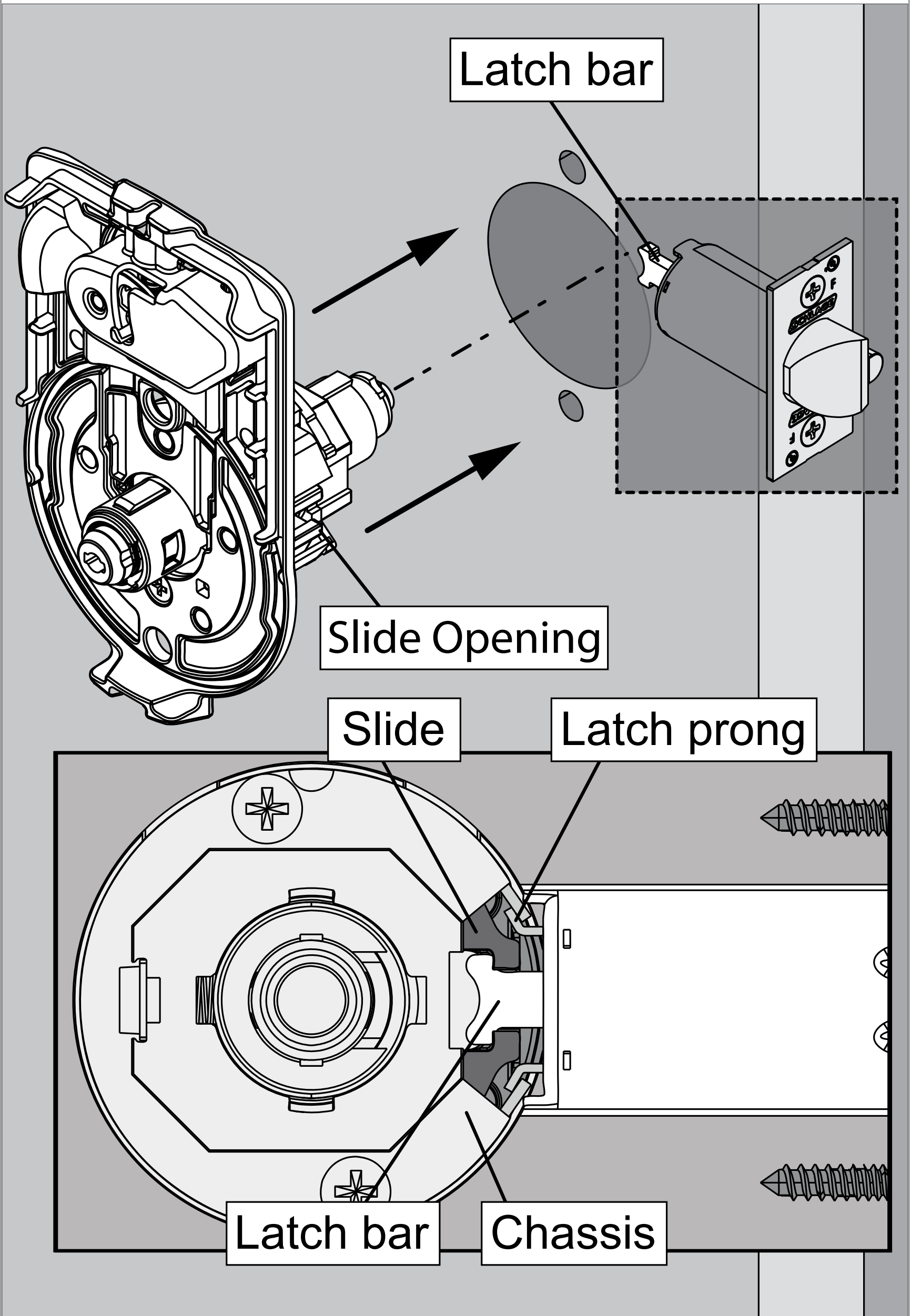
The bevel must face toward the door jamb.
Tighten the two (2) screws.

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



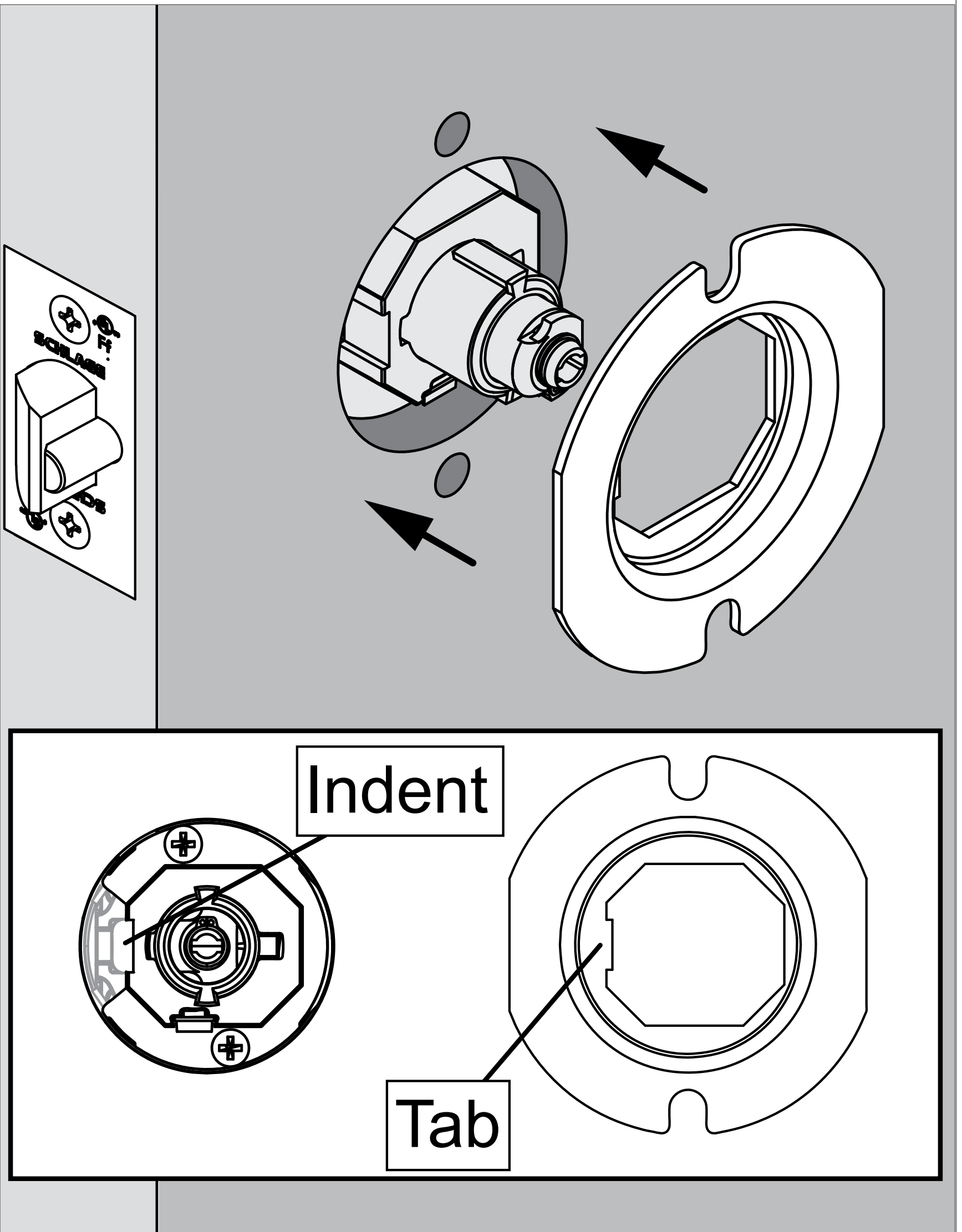
2 Install Indicator & Chassis

Install on **inside** of door with slide opening aligned towards latch. If slide opening does not align with latch, refer to **Chassis Handing**.



3 Install anti-rotation plate

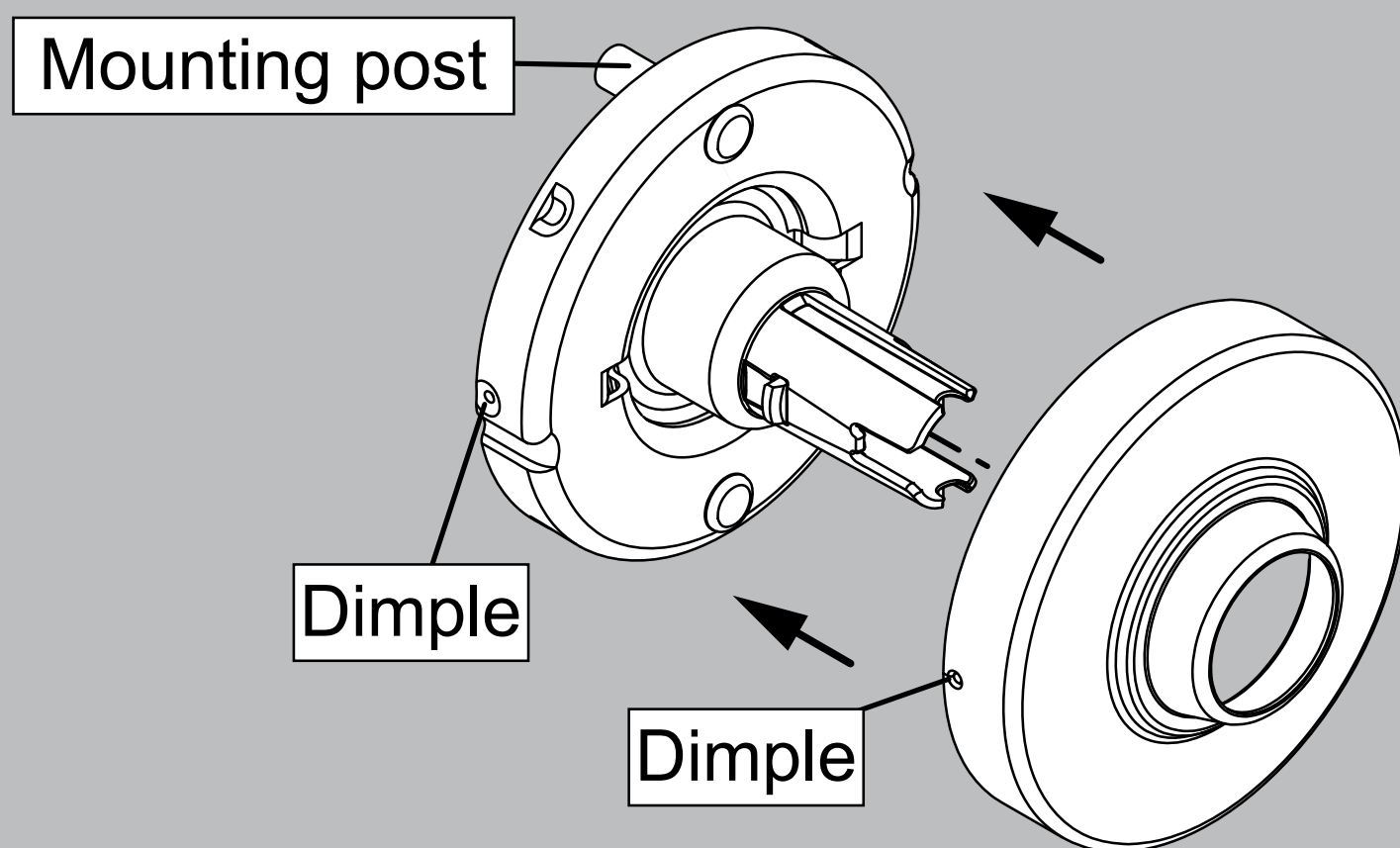
Install on **outside** of door. Align the tab with the indent on the hub.



4 Assemble outside trim (1 of 2)

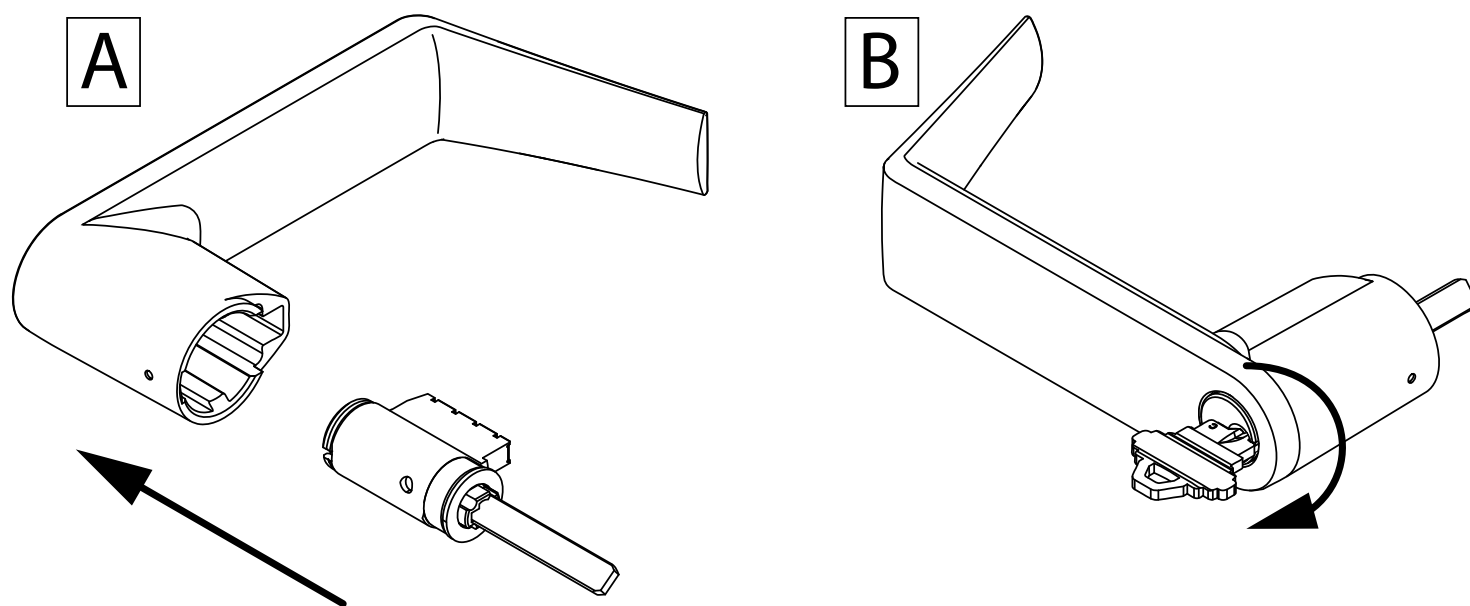
If not pre-assembled, snap the outside rose onto the outside spring cage and engage dimples. **Do NOT** install IC Cylinders in this step. Continue install without 4A, 4B, & 4D. Then continue to step 5.

① **Note that the outside spring cage is the one with the mounting posts.**



A. **(KIL Cylinder Only)** Place the cylinder assembly into the lever.

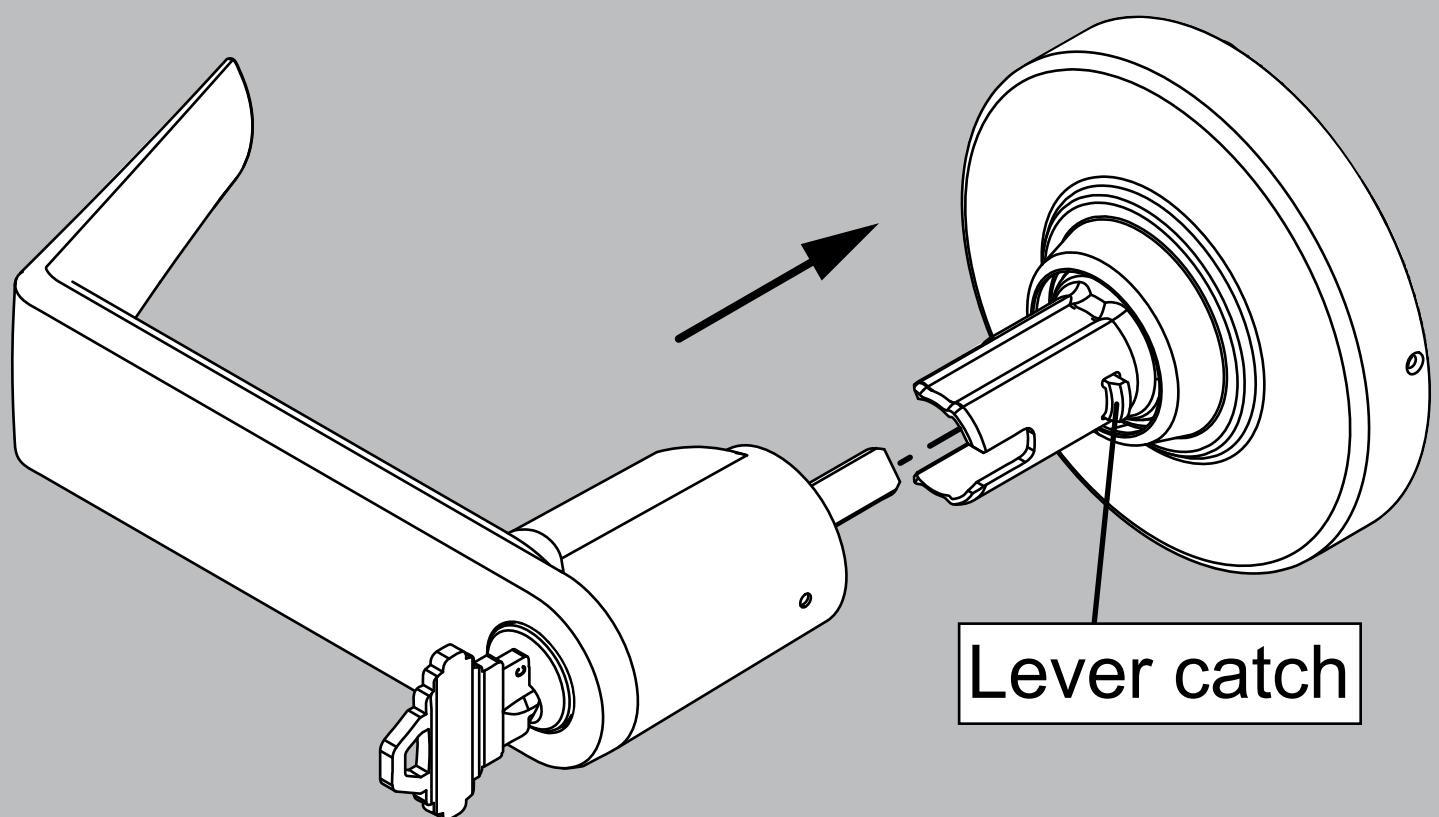
B. **(KIL Cylinder Only)** Rotate the key 90° clockwise.



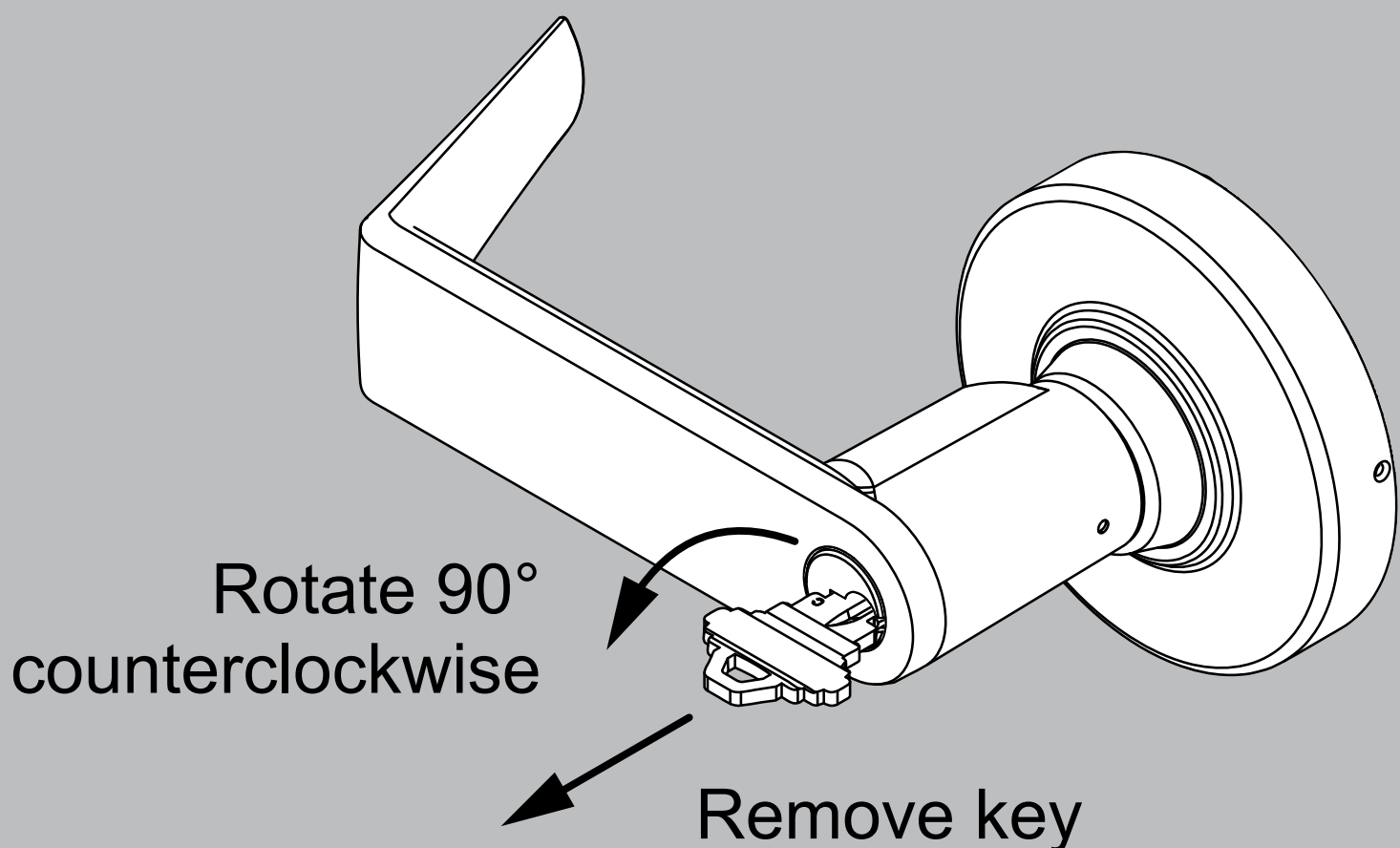
4 Assemble outside trim (2 of 2)

- C. With key still rotated 90° clockwise, push outside lever onto the spindle.

Be sure to engage the lever catch. **For IC cylinders, install lever with lever catch.**



- D. **(KIL Cylinder Only)** Rotate the key counterclockwise back to the starting position and remove the key.

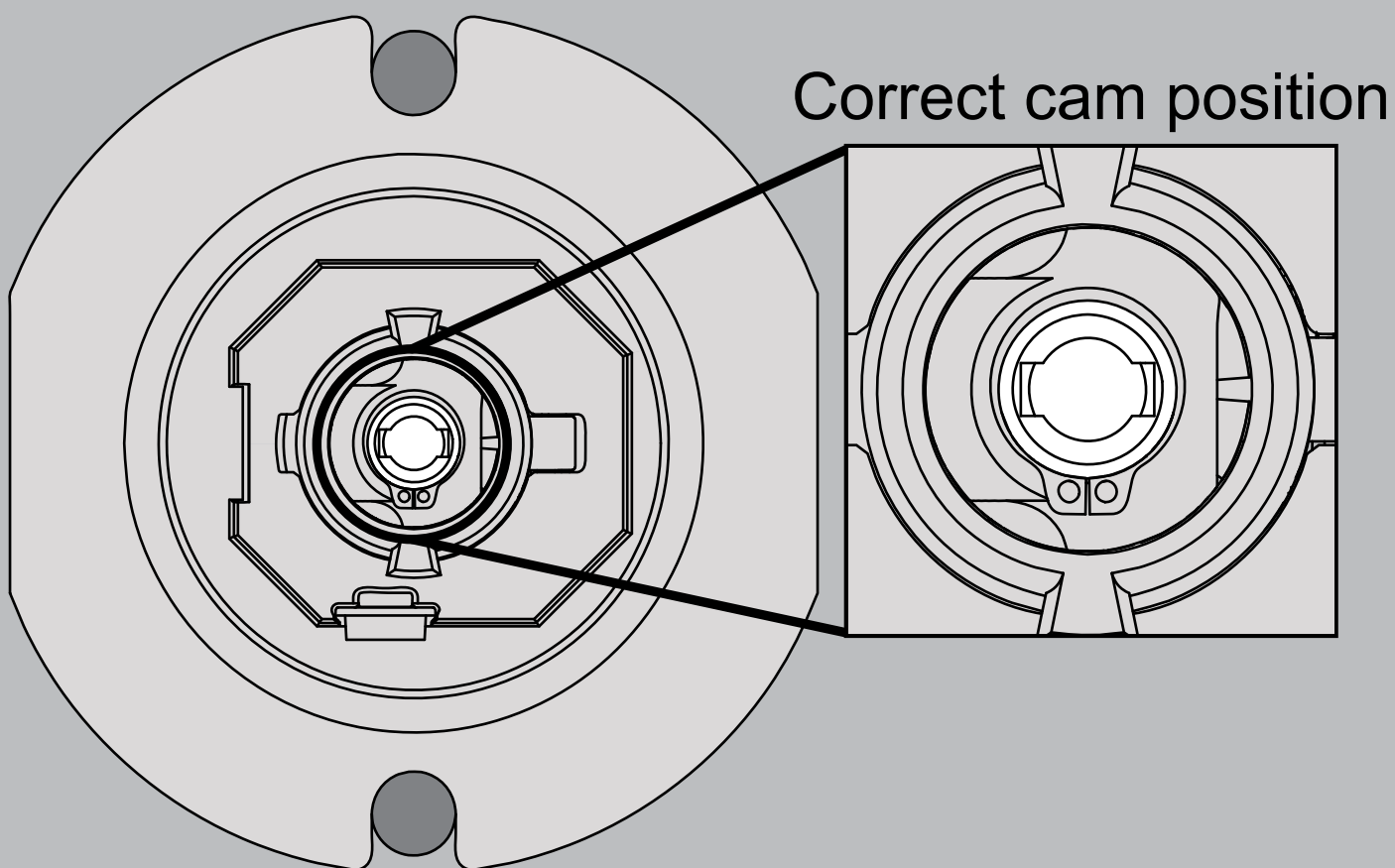
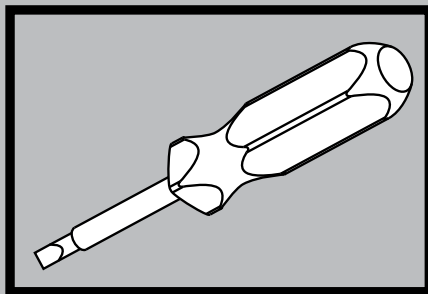


5 Adjust the cam position

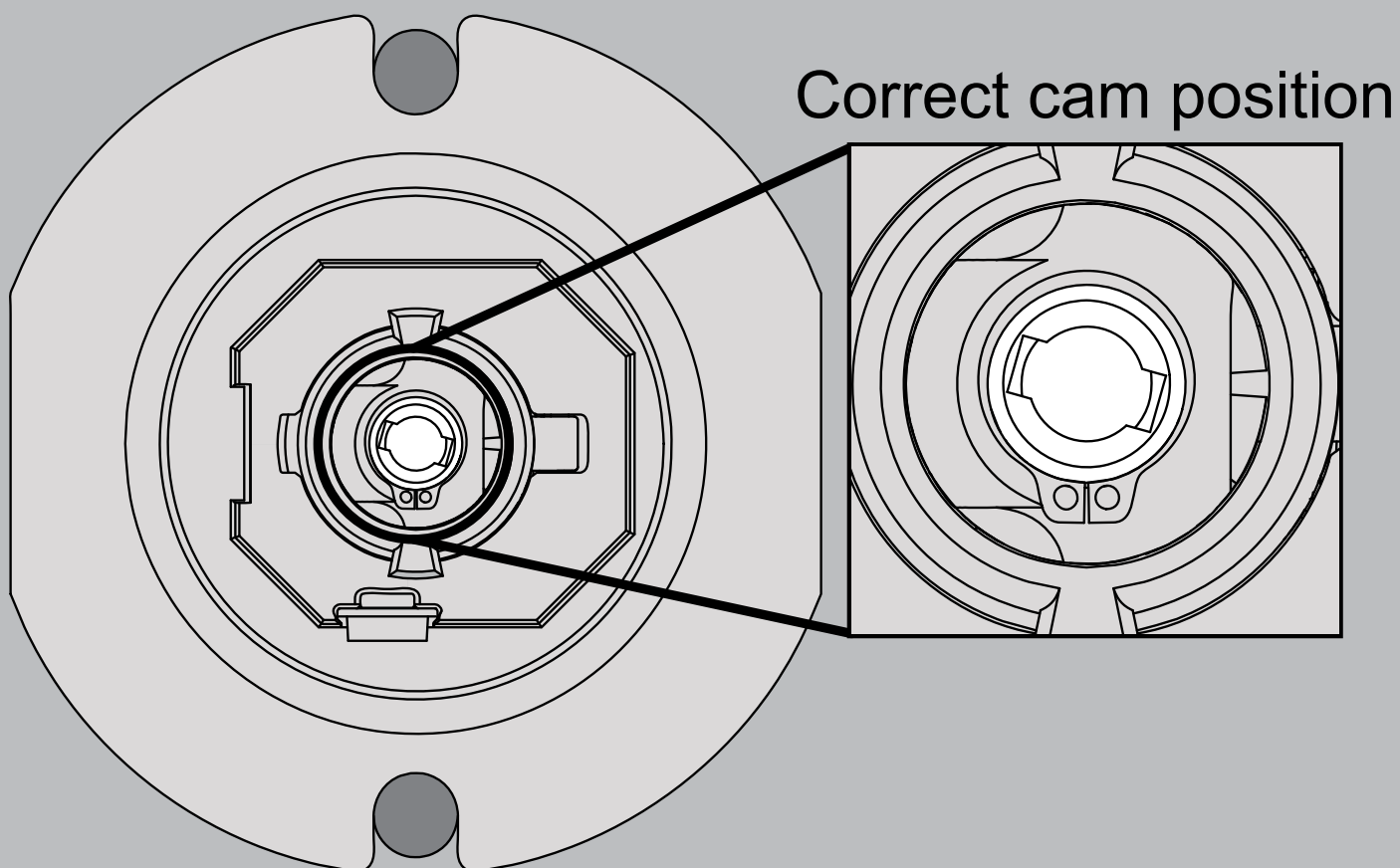
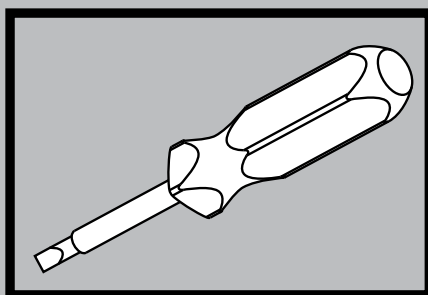
Insert screwdriver into outside keycam and rotate clockwise until cam slot is horizontal.

ⓘ Note that there is no stop when rotating the keycam.

KIL Cylinder Only

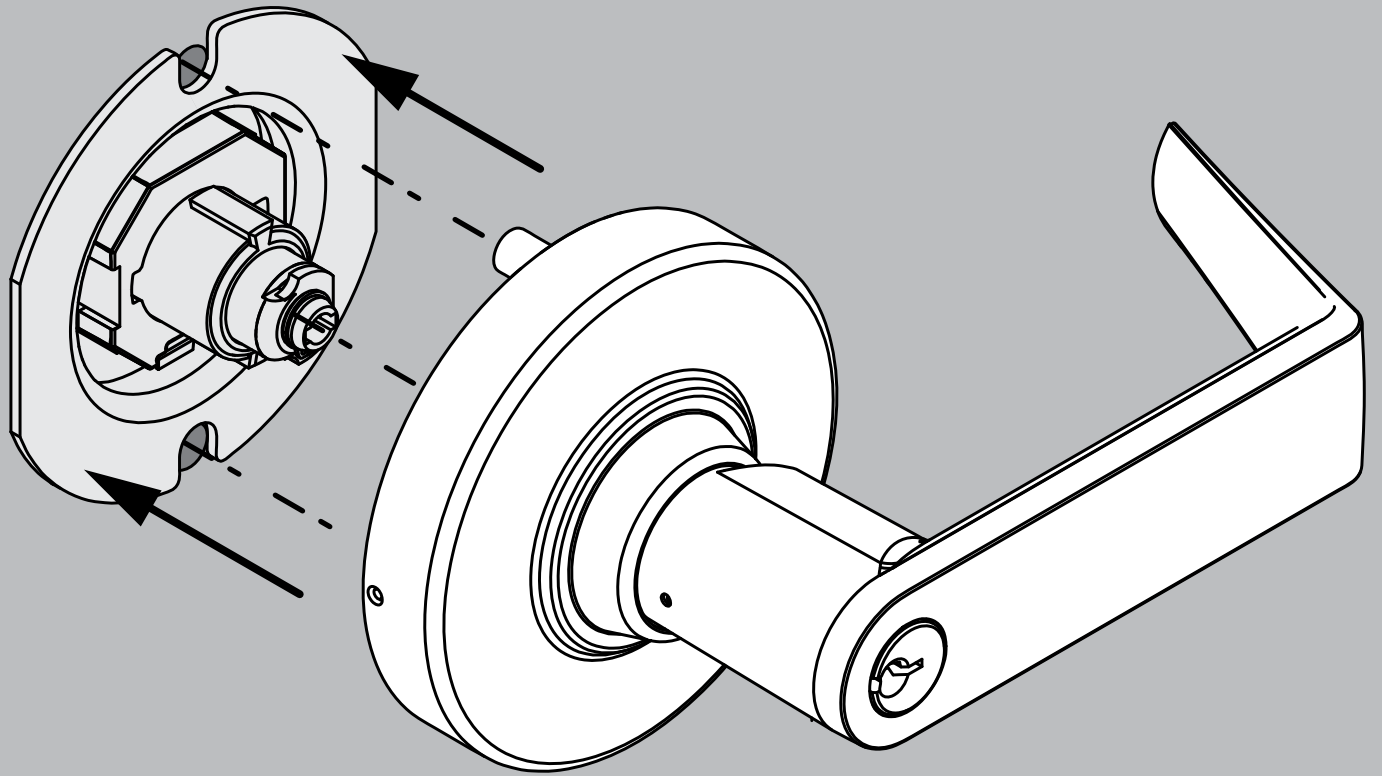
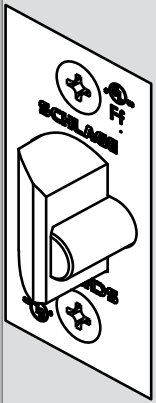


IC Cylinder Only



6 Install outside trim

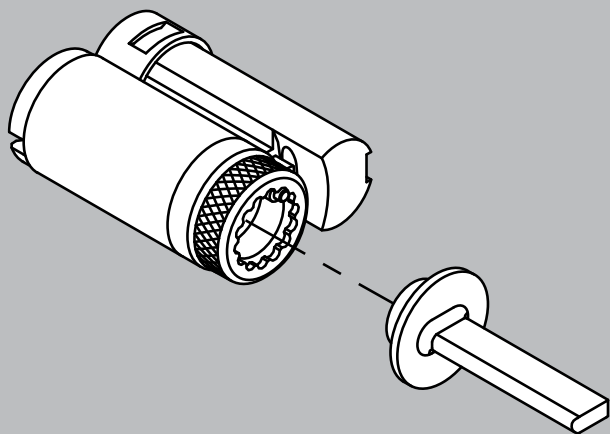
Install on **outside** of door.



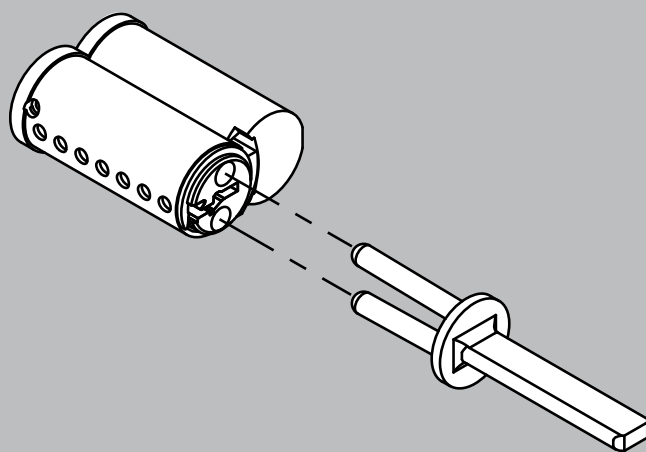
7 Install outside trim (IC Cylinder 1 of 2)

Insert IC cylinder tailpieces. Push in FSIC tailpiece until it snaps. (SFIC tailpiece does not snap)

FSIC cylinder:

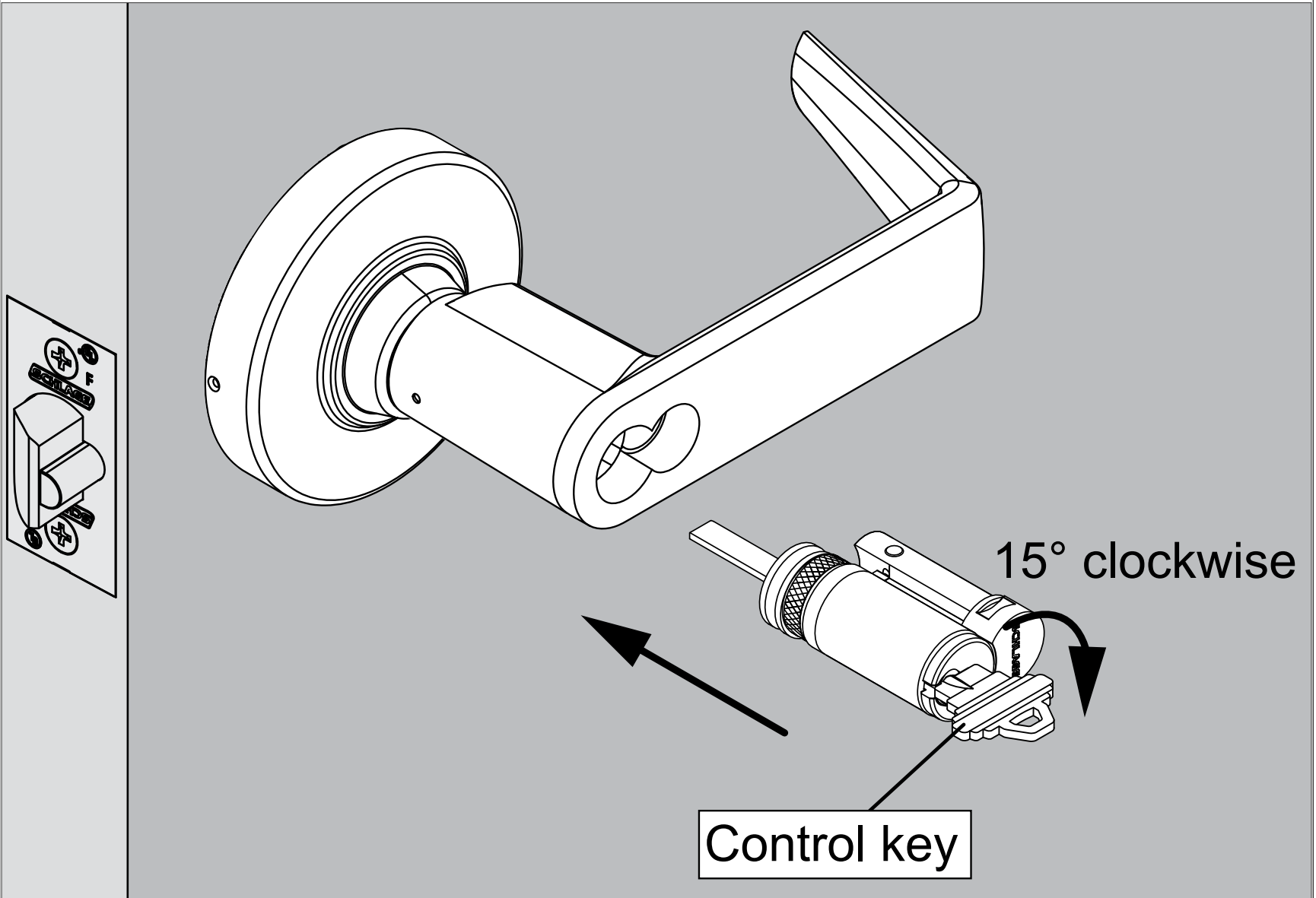


SFIC cylinder:

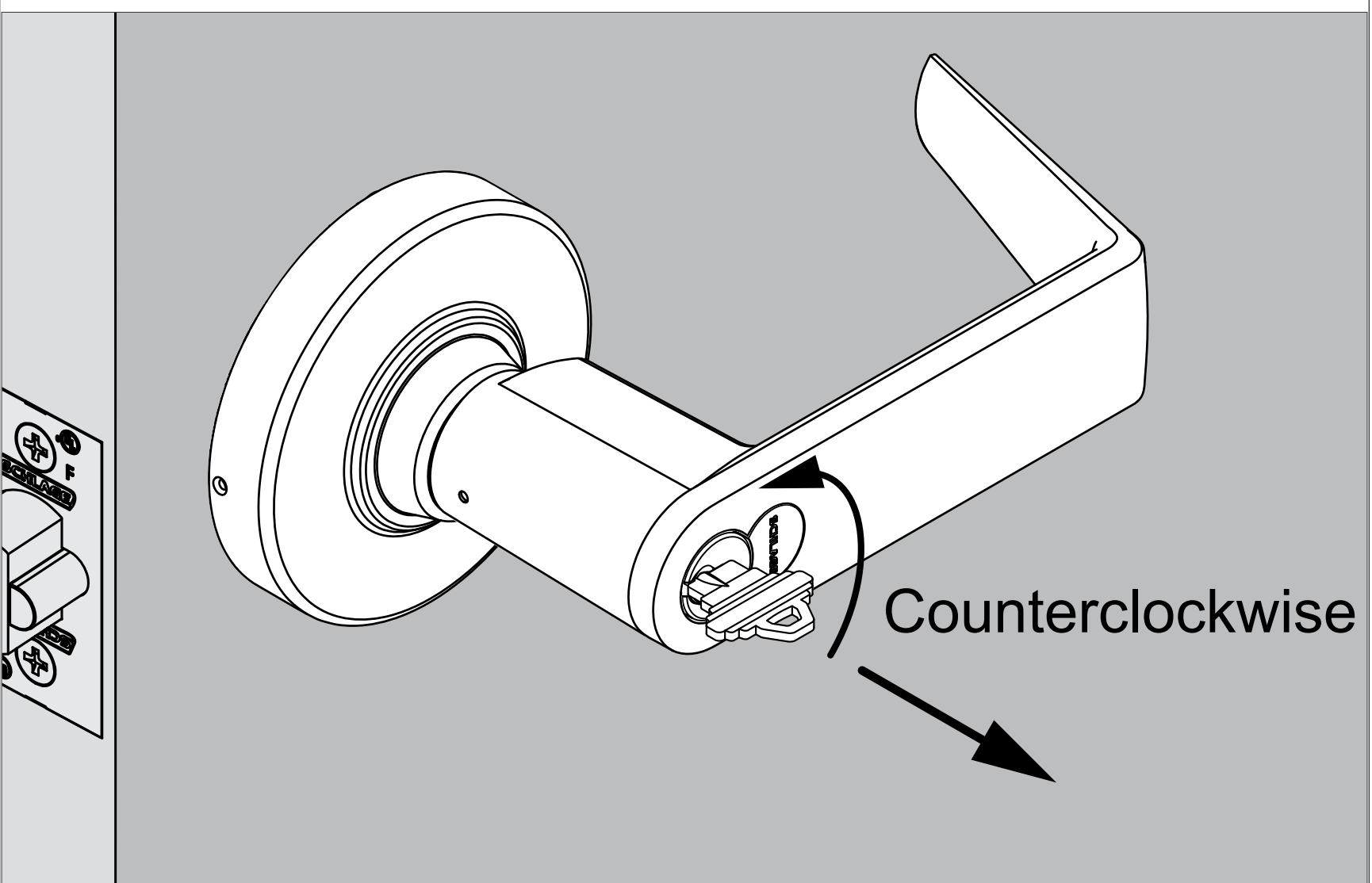


7 Install outside trim (IC Cylinder 2 of 2)

Insert the control key into the cylinder and rotate 15 degrees clockwise. Then insert the cylinder assembly into the lever.



Rotate the key counterclockwise to starting position and remove it from the cylinder.



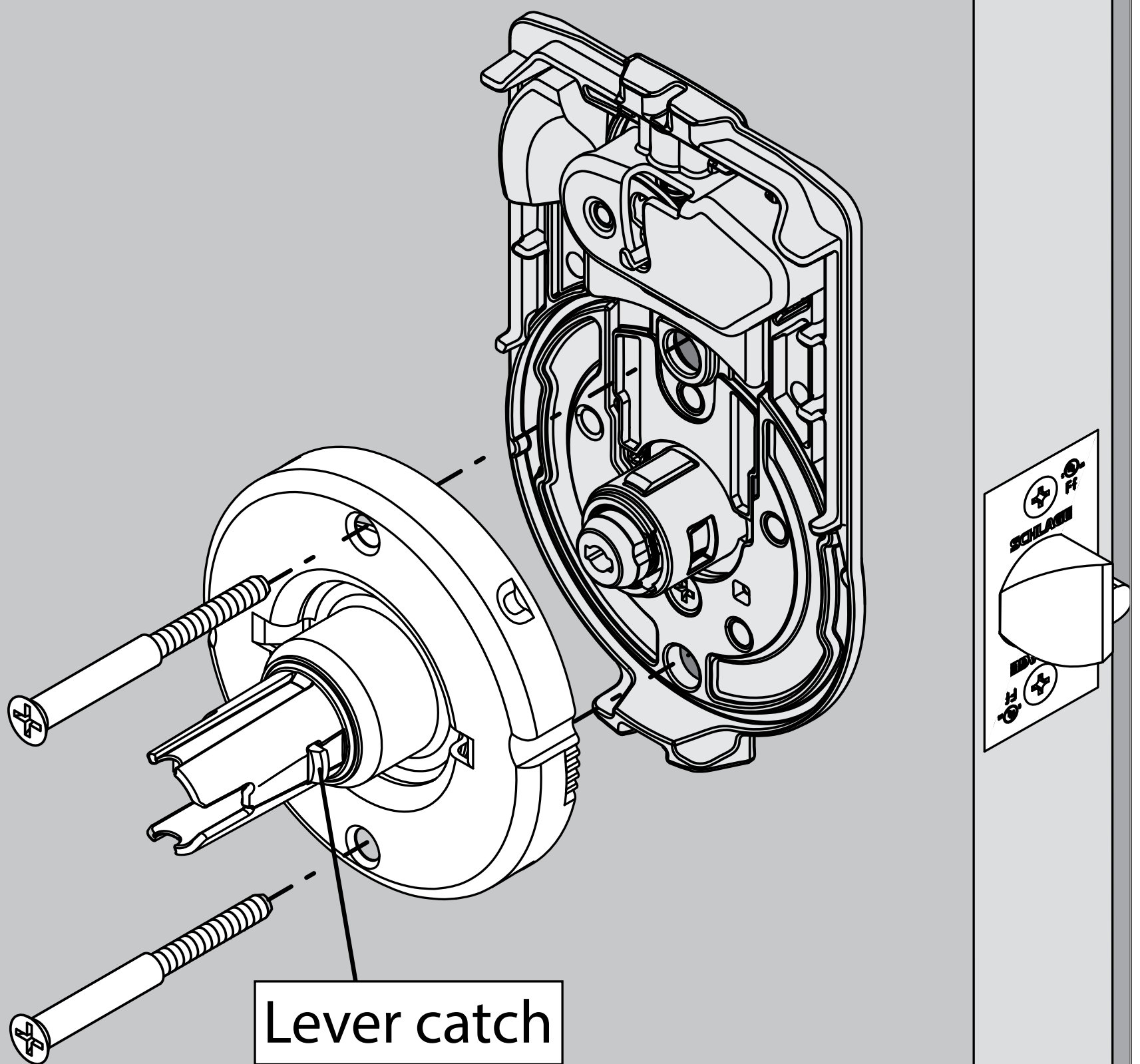
8 Install inside spring cage assembly

Lever catch faces door edge. Install and tighten mounting screws.

ⓘ Note: The inside spring cage has holes for screws.

WARNING

⚠ Do not overtighten the mounting screws.



9 Install indicator sign

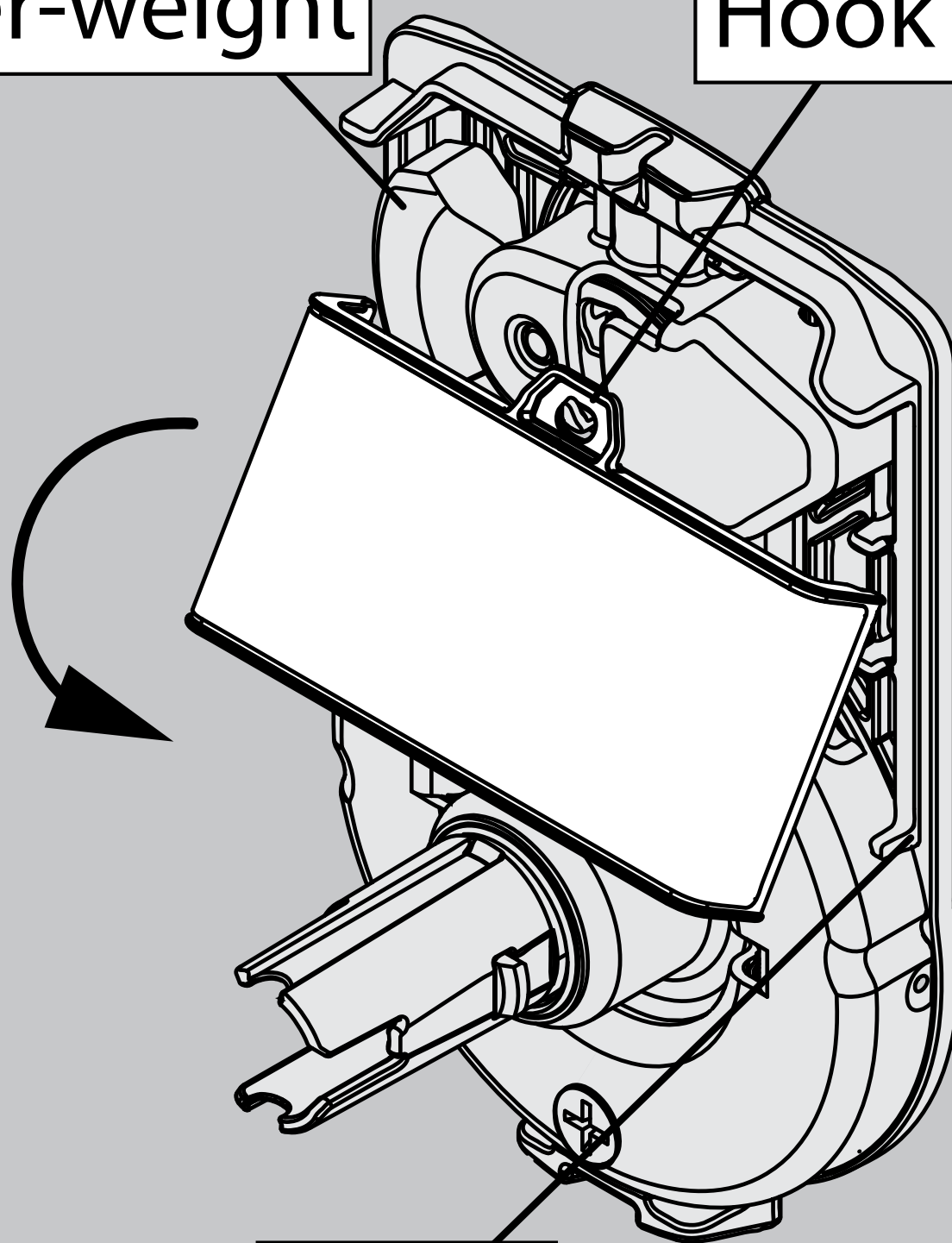
Place hole in indicator sign over hook on lever and confirm the sign is on housing ledges.

Indicator sign will sit on top of the ledges.

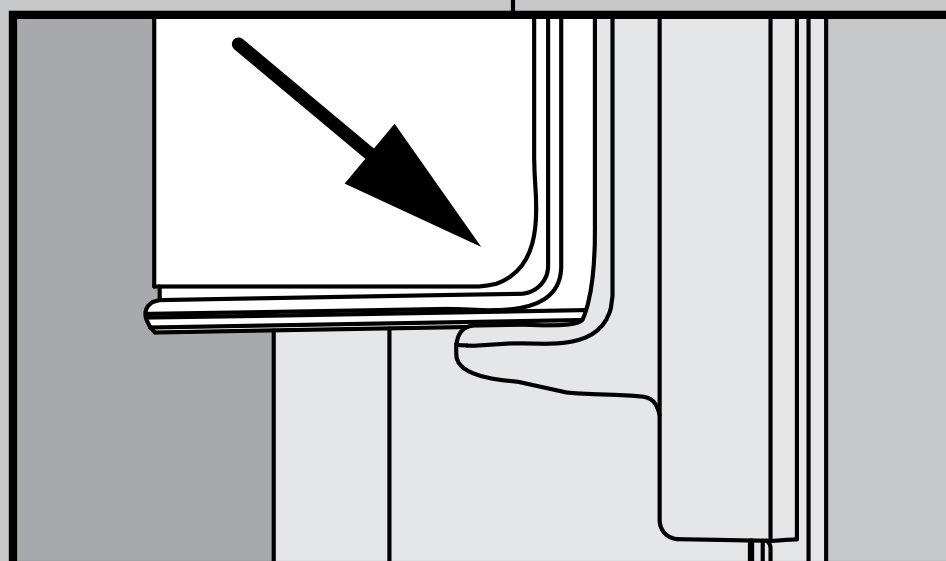
Note: If there is trouble with sign staying on hook, push down on counterweight and hook will move upwards to assist with installation.

Counter-weight

Hook



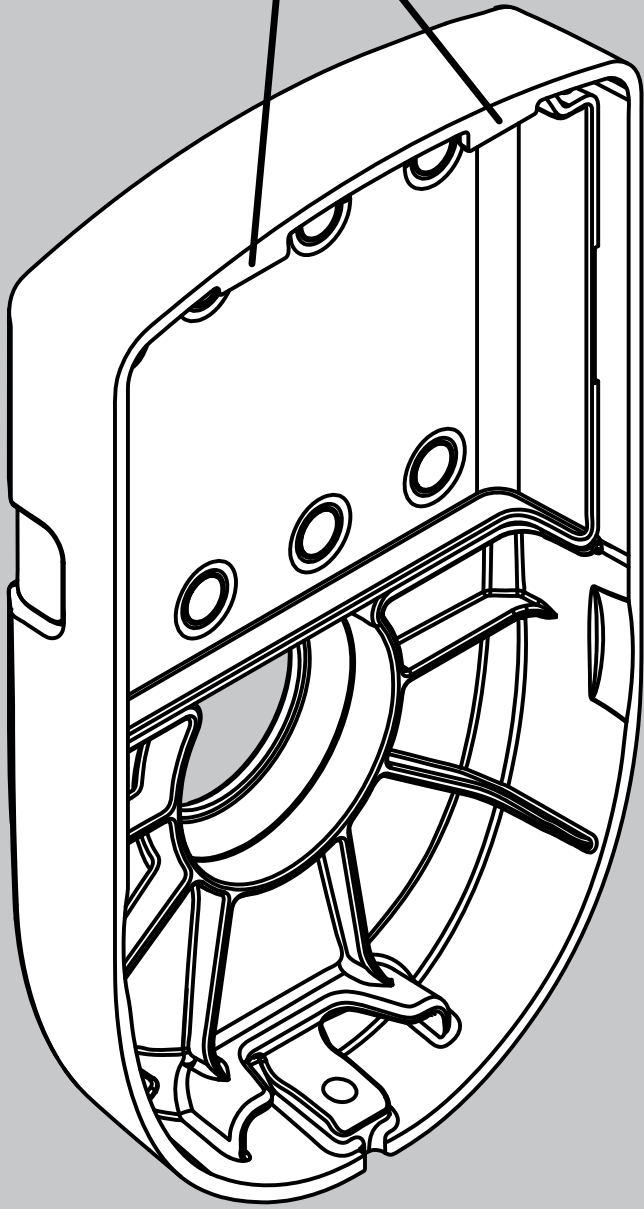
Ledge



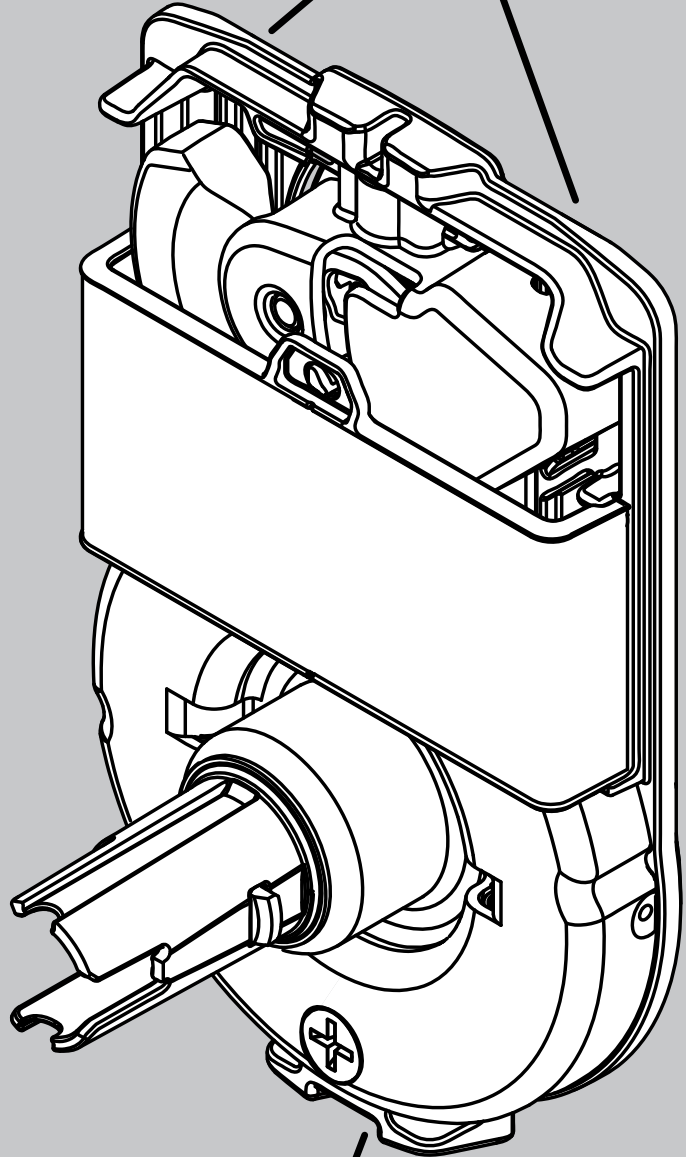
10 Install escutcheon (1 of 2)

Hook escutcheon tabs into baseplate notches.

Escutcheon tabs



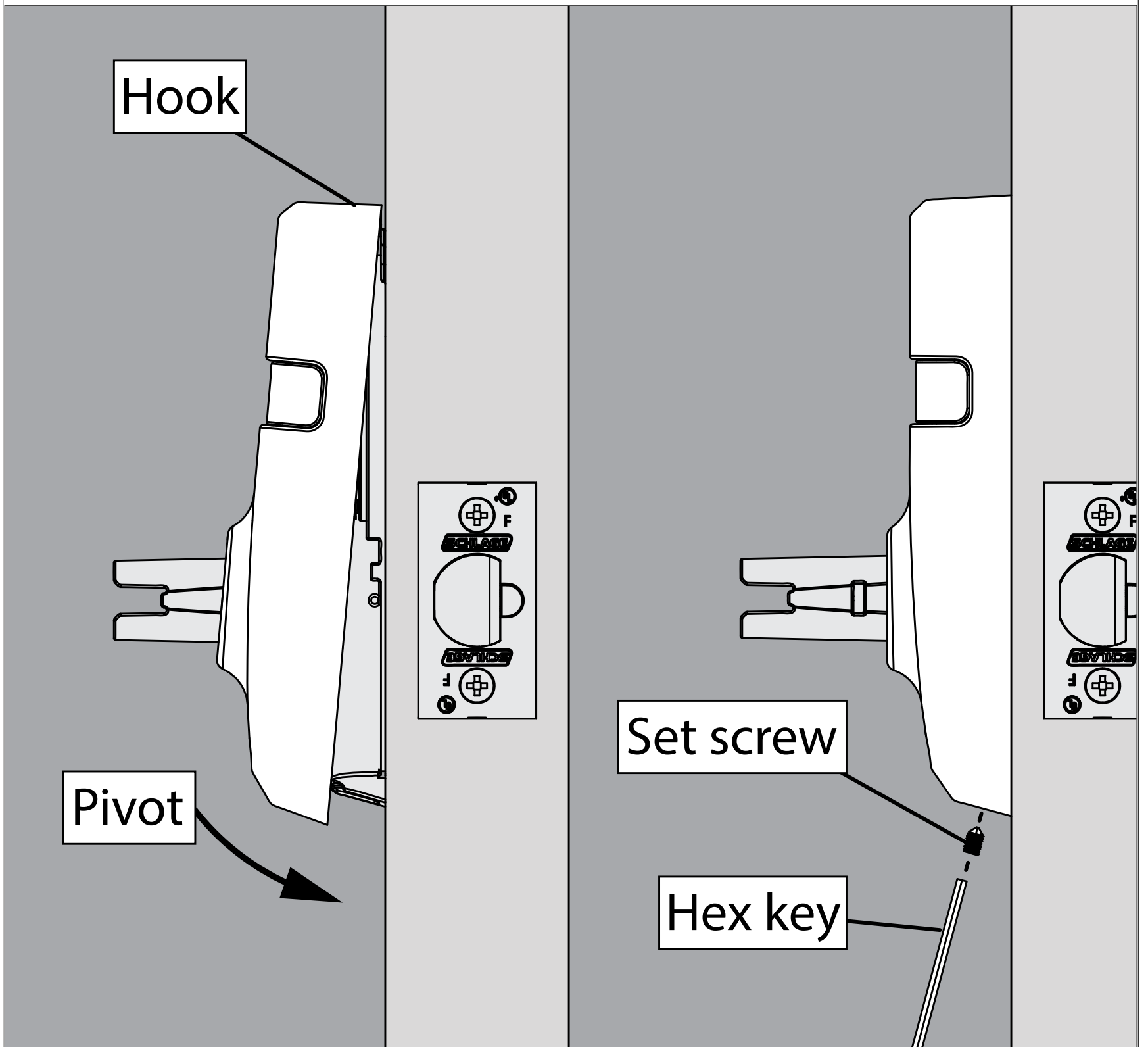
Baseplate notches



Baseplate slot

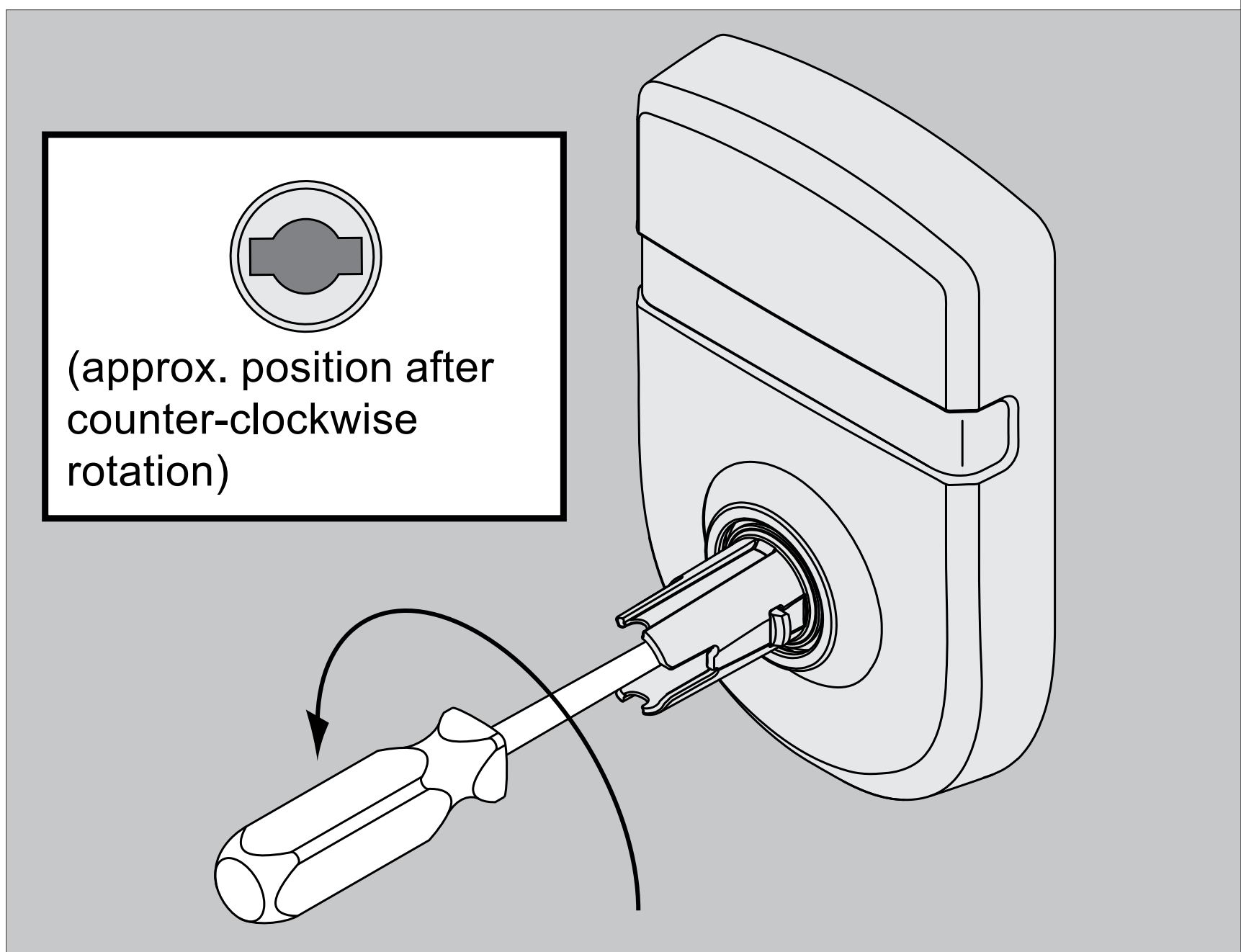
10 Install escutcheon (2 of 2)

Pivot escutcheon against door. Tighten one (1) set screw into baseplate slot with hex key.

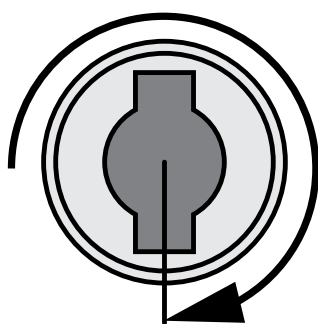


Lock Timing (1 of 4)

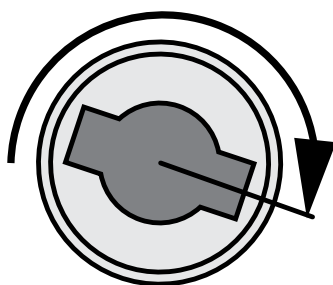
- A.** From **INSIDE**, rotate key cam **COUNTER-CLOCKWISE** until it stops.



- B.** Now, from **INSIDE** rotate the key cam **CLOCKWISE** to:



(approx. 270° for KIL
Conventional Cylinder)

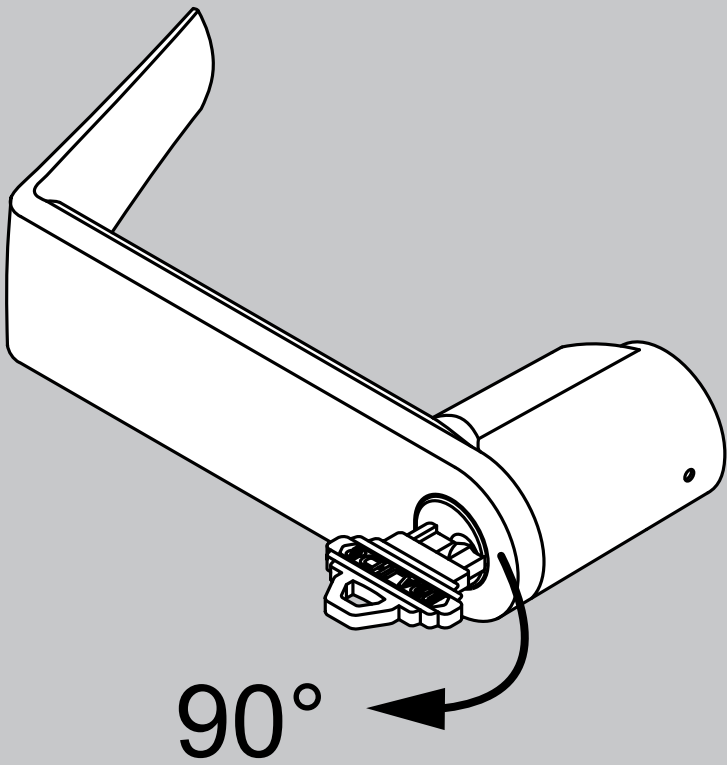


(approx. 195° for IC
Interchangeable Core
Cylinder)

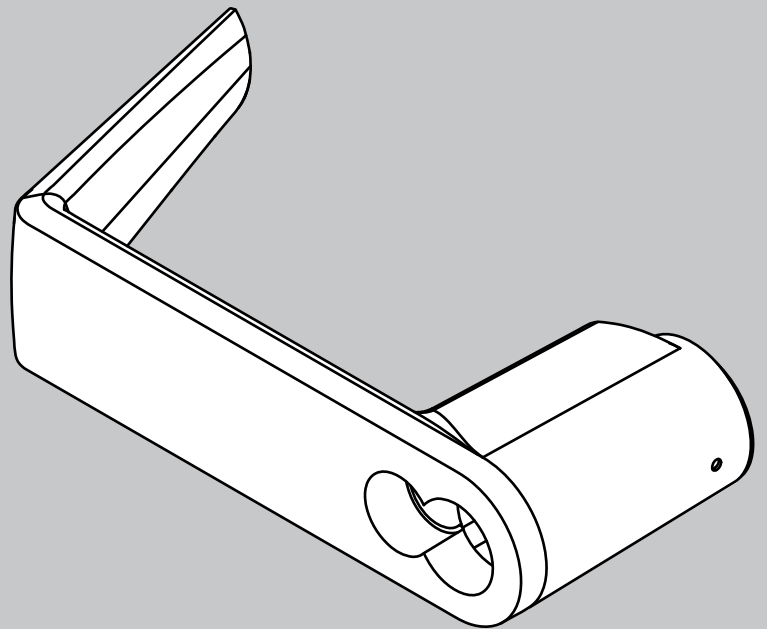
Lock Timing (2 of 4)

- C.** Install Cylinder and Lever. With key rotated 90° **CLOCKWISE**, press lever onto lever post.
Note: DO NOT install IC Cylinder .

KIL

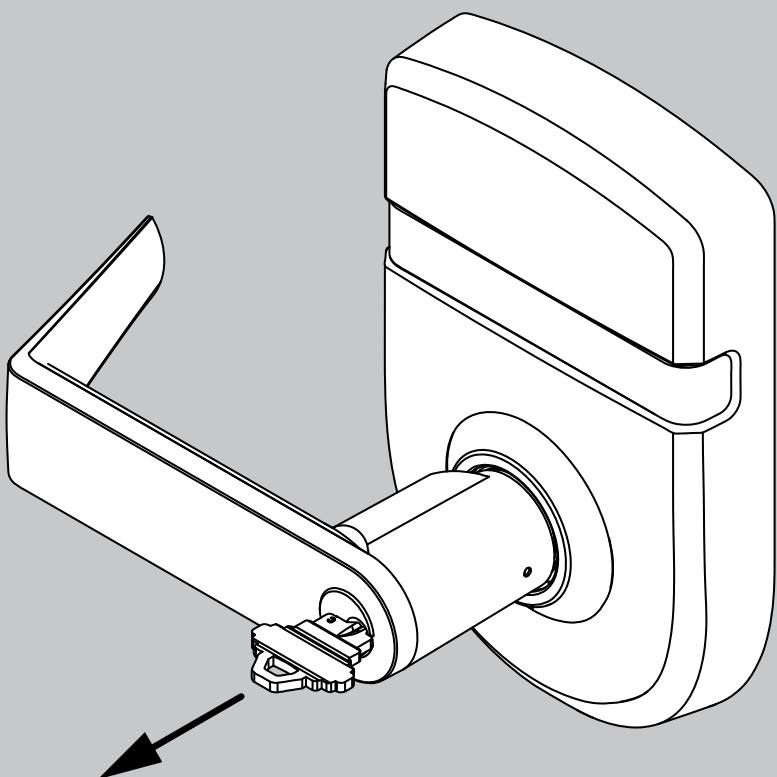


IC

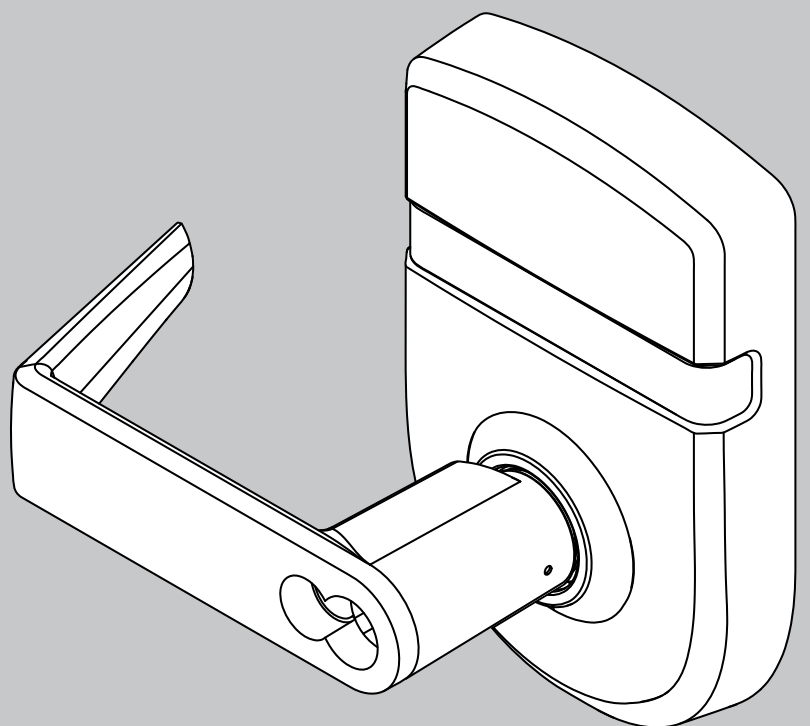


- D. KIL Cylinder Only:** With key still at 90° clockwise, rotate key further **CLOCKWISE** until it stops and then 180° **COUNTERCLOCKWISE** back to the home position. Remove key from inside the cylinder.

KIL



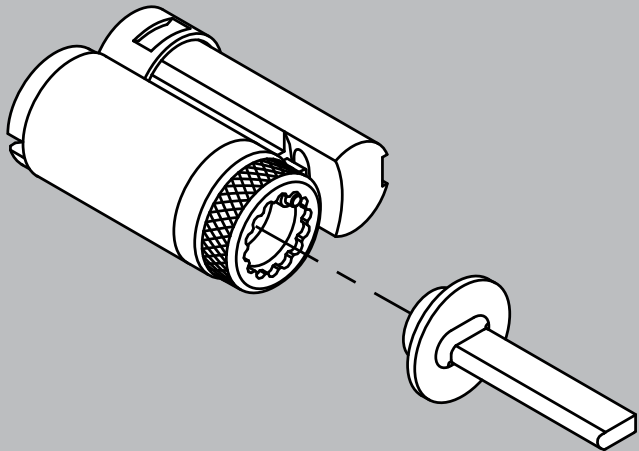
IC



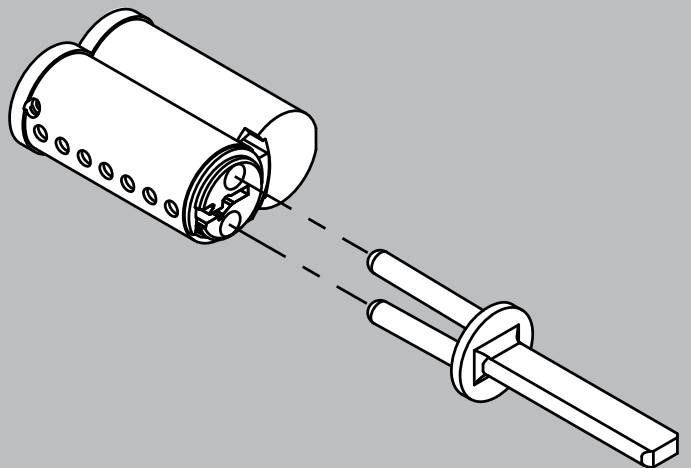
Lock Timing (3 of 4)

- E. IC Cylinder Only:** Install IC cylinder tailpiece. Push tailpiece until it snaps into place.

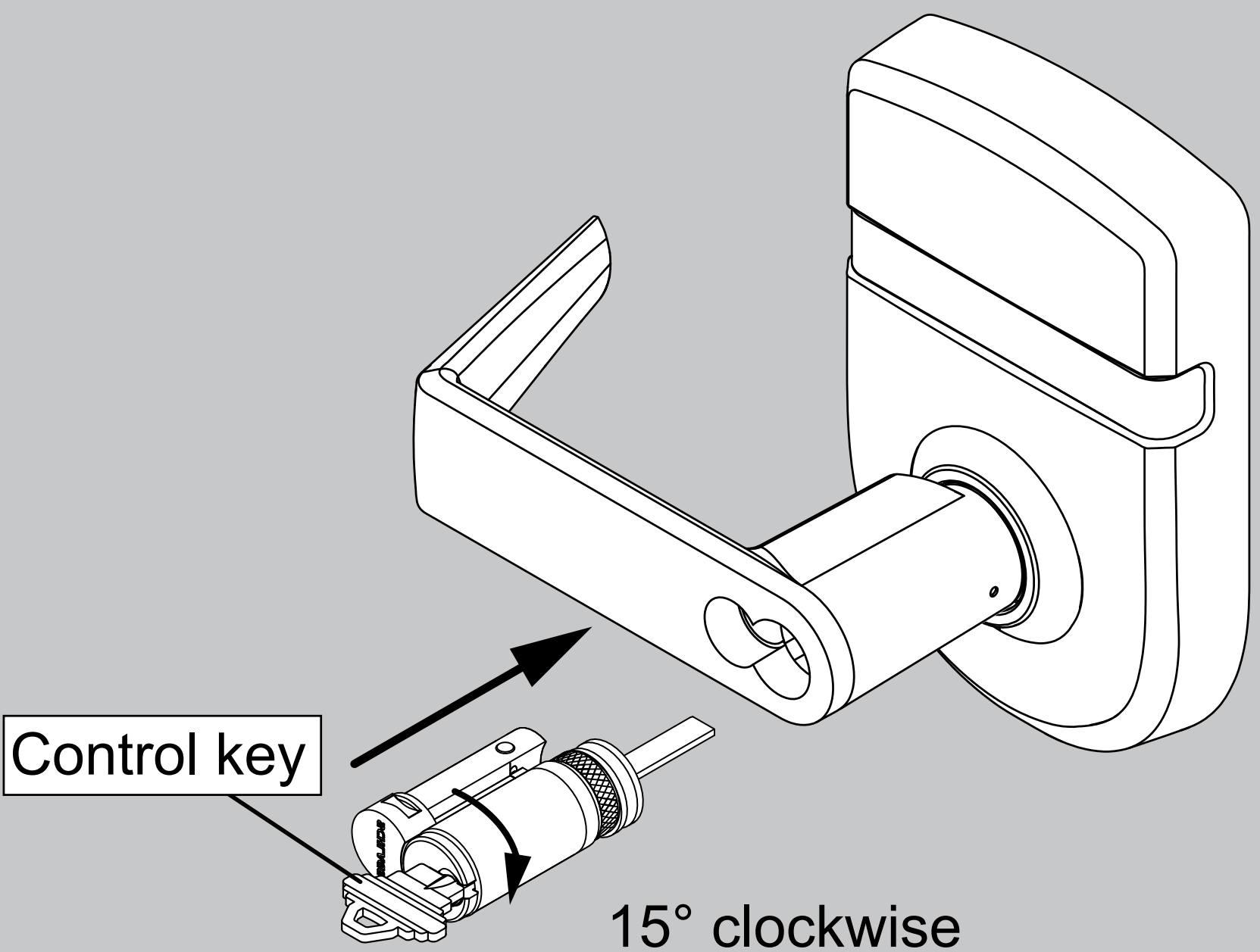
FSIC cylinder:



SFIC cylinder:

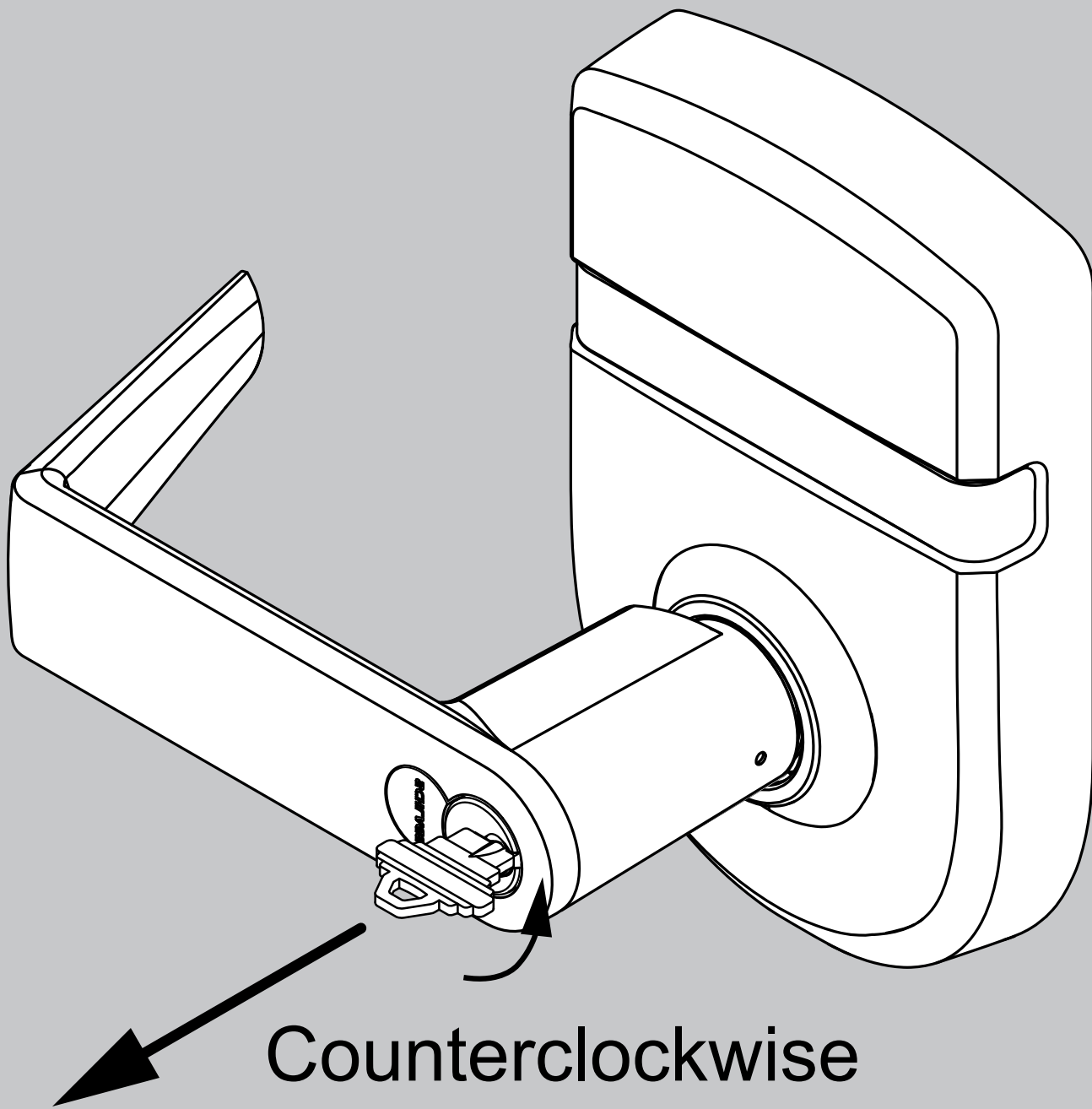


- F. IC Cylinder Only:** Insert the control key into the cylinder and rotate 15 degrees clockwise. Then, insert the cylinder assembly into the lever.

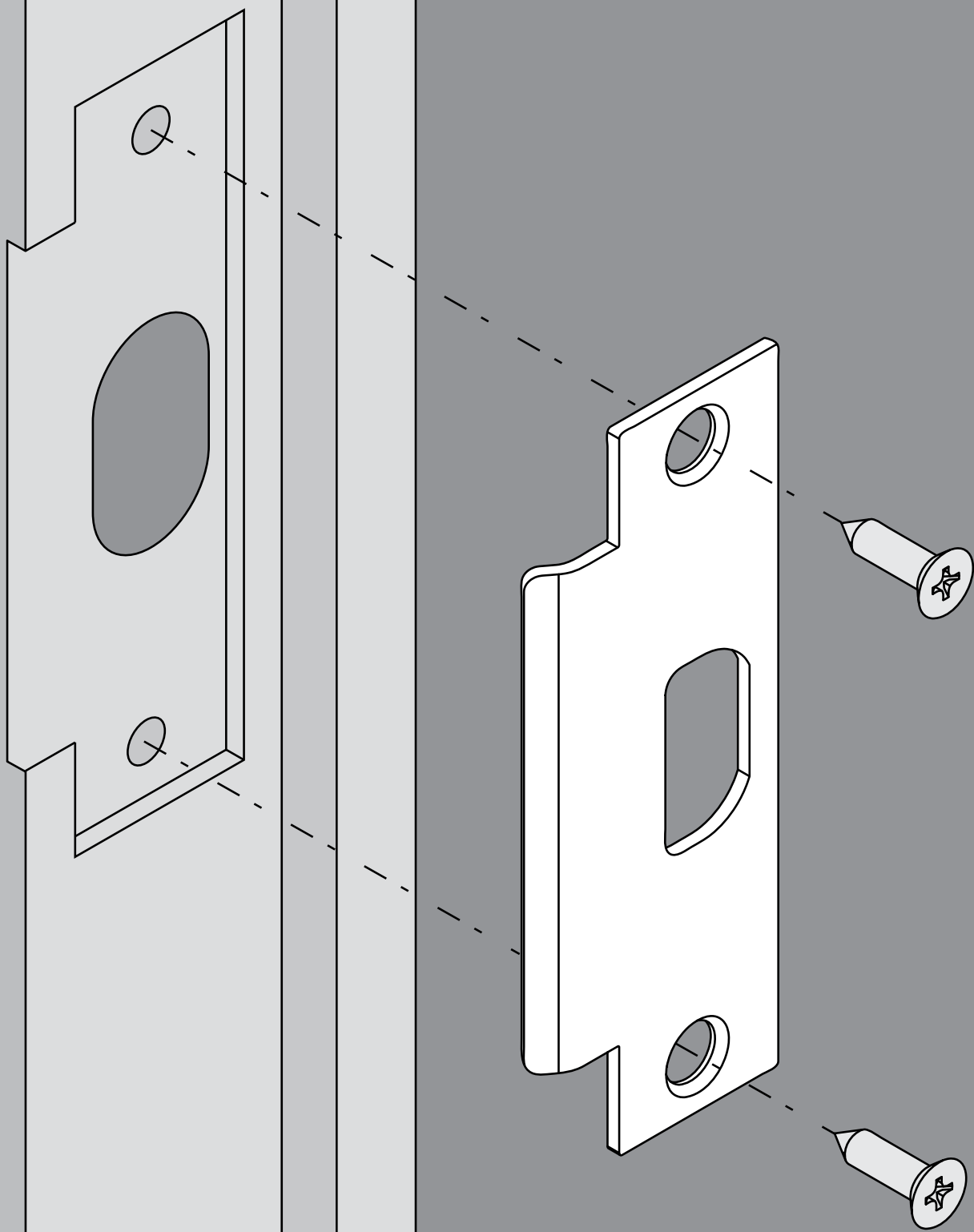


Lock Timing (4 of 4)

- G. IC Cylinder Only:** Rotate the control key counterclockwise until it stops and remove the key from the cylinder.



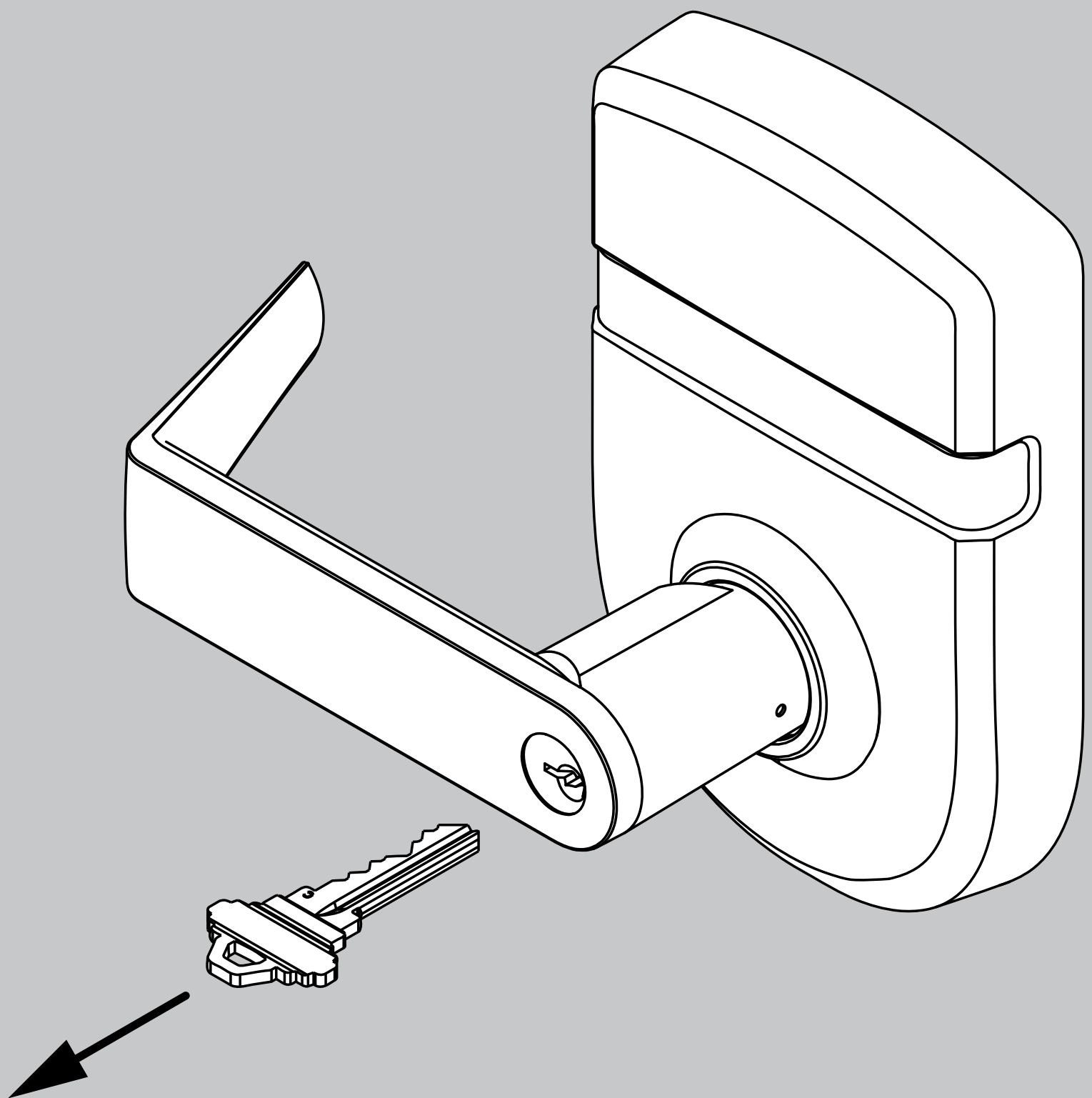
11 Install strike



12 Complete

WARNING

⚠ After locking the door by returning the key to the home position it is recommended that you remove the key from the lock. Failure to remove the key in any situation will disable the opposite cylinder from being able to lock or unlock the door.



Continue to next page to check lock function.

Checking lock function

1. Insert the key in the outside key cylinder and rotate the key 180 degrees **counterclockwise** and then 180 degrees **clockwise** back to the home position to lock the outside lever.

Check that the outside lever is locked and the indicator sign raises to read "**Locked**".

2. Rotate the key 180 degrees **clockwise** and then 180 degrees **counterclockwise** back to the home position to unlock the outside lever. Remove the key.

Check that the outside lever is unlocked and the indicator sign lowers to read "**Unlocked**".

3. Insert the key in the inside key cylinder and rotate the key 180 degrees **counterclockwise** and then 180 degrees **clockwise** back to the home position to lock the outside lever.

Check that the outside lever is locked and the indicator sign raises to read "**Locked**".

4. Rotate the key 180 degrees **clockwise** and then 180 degrees **counterclockwise** back to the home position to unlock the outside lever. Remove the key.

Check that the outside lever is unlocked and the indicator sign lowers to read "**Unlocked**".

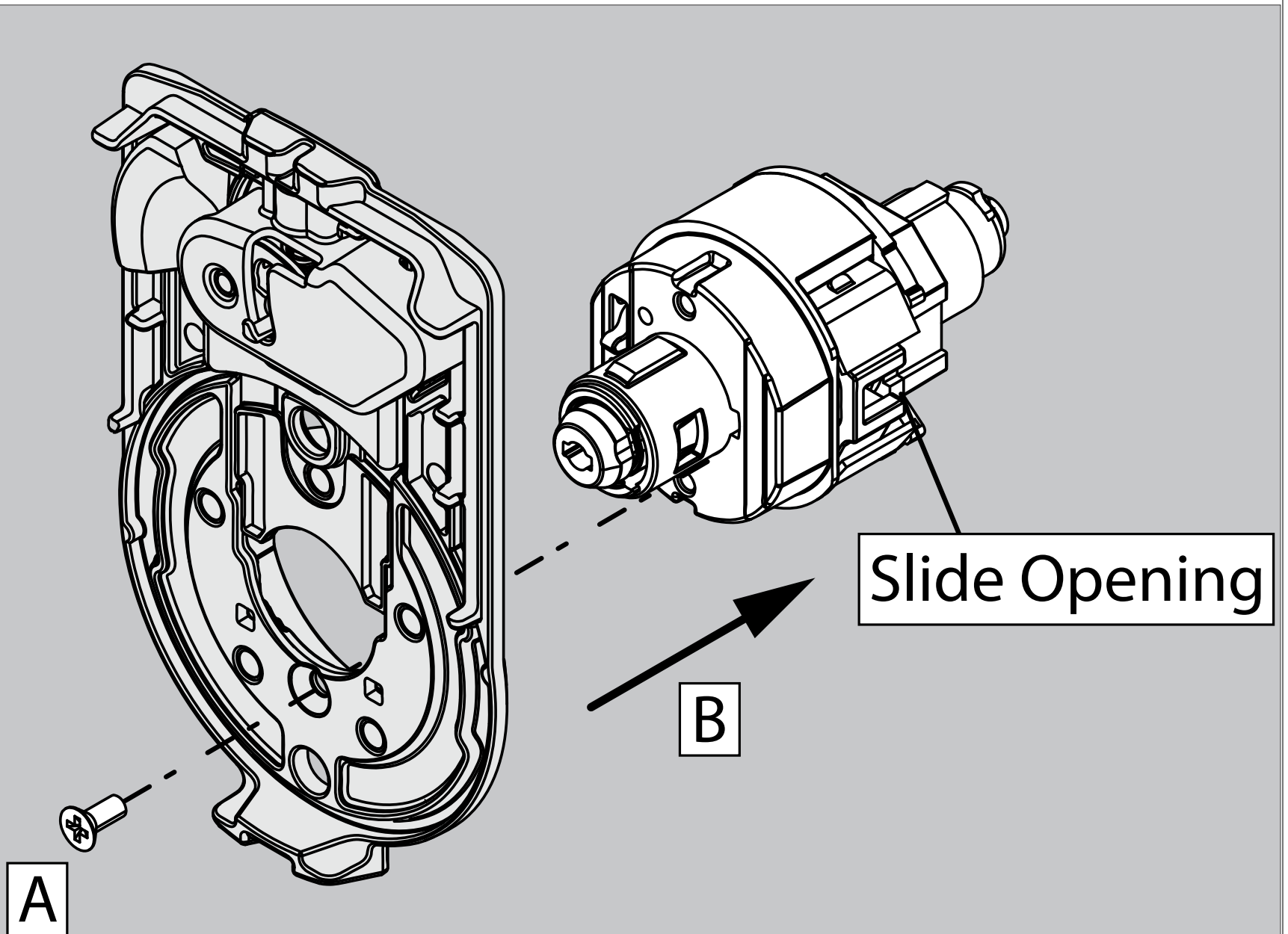
5. The inside lever should always be unlocked and rotate freely.

Chassis Handing (1 of 3)

① **Complete this step only if the slide opening does not align with the latch.**

A Use Phillips screwdriver to loosen and remove screw.

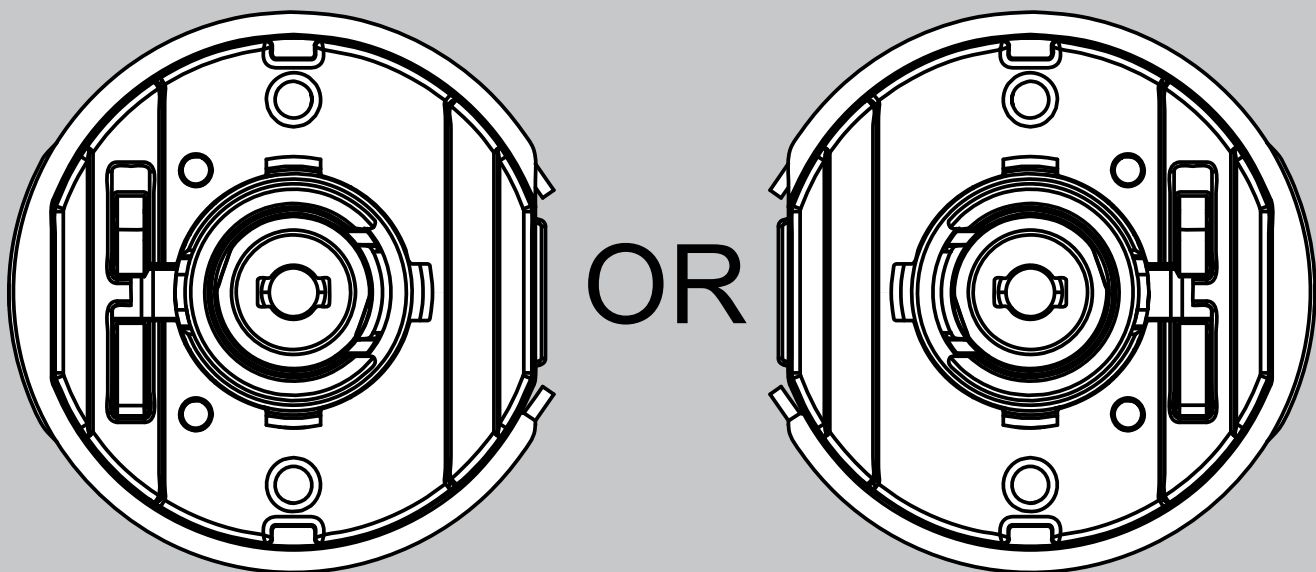
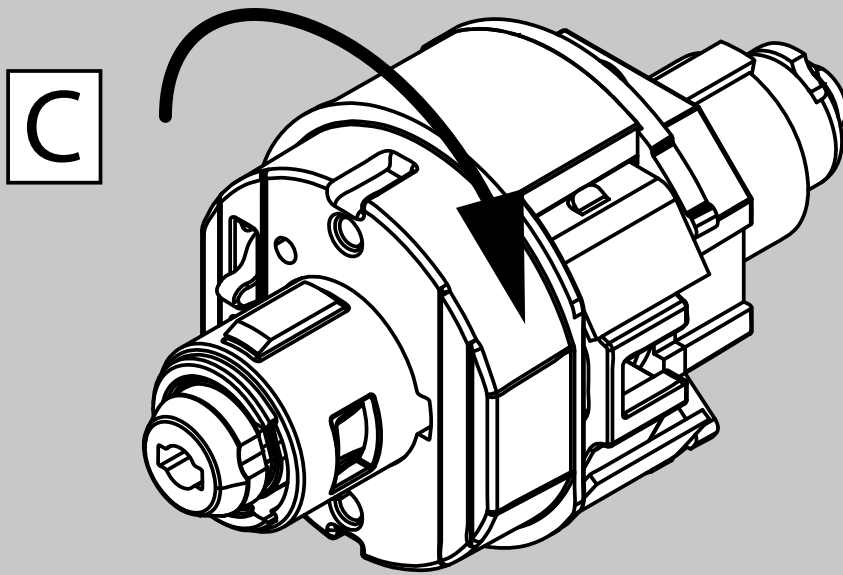
B Separate the indicator assembly from the lock chassis.



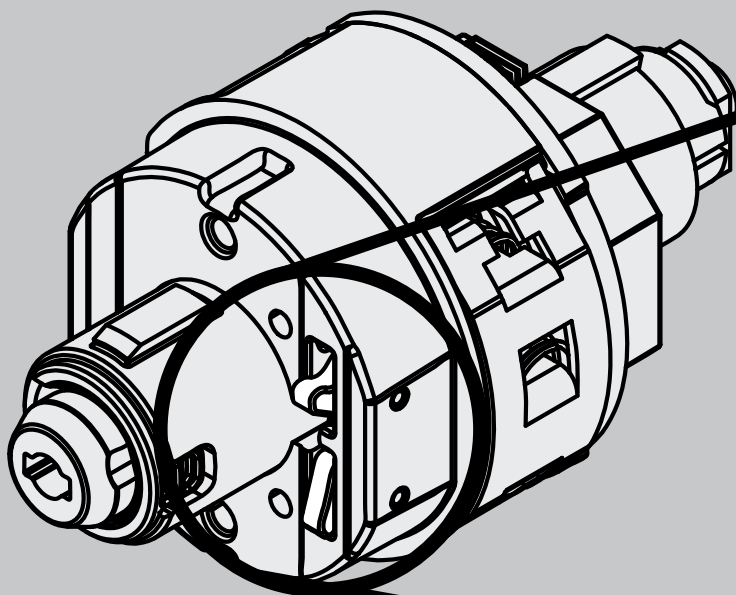
Chassis Handing (2 of 3)

C Rotate Chassis 180°

D Rotate both cams downwards. Chassis must be unlocked in order to rotate upper cam.



The cams **MUST** be rotated down.



D

Cam

Chassis Handing (3 of 3)

E Reassemble chassis and indicator assembly. Tighten 1 screw.

F Confirm that the upper cam is engaged with the slider and lower cam is engaged in rectangular hole.

