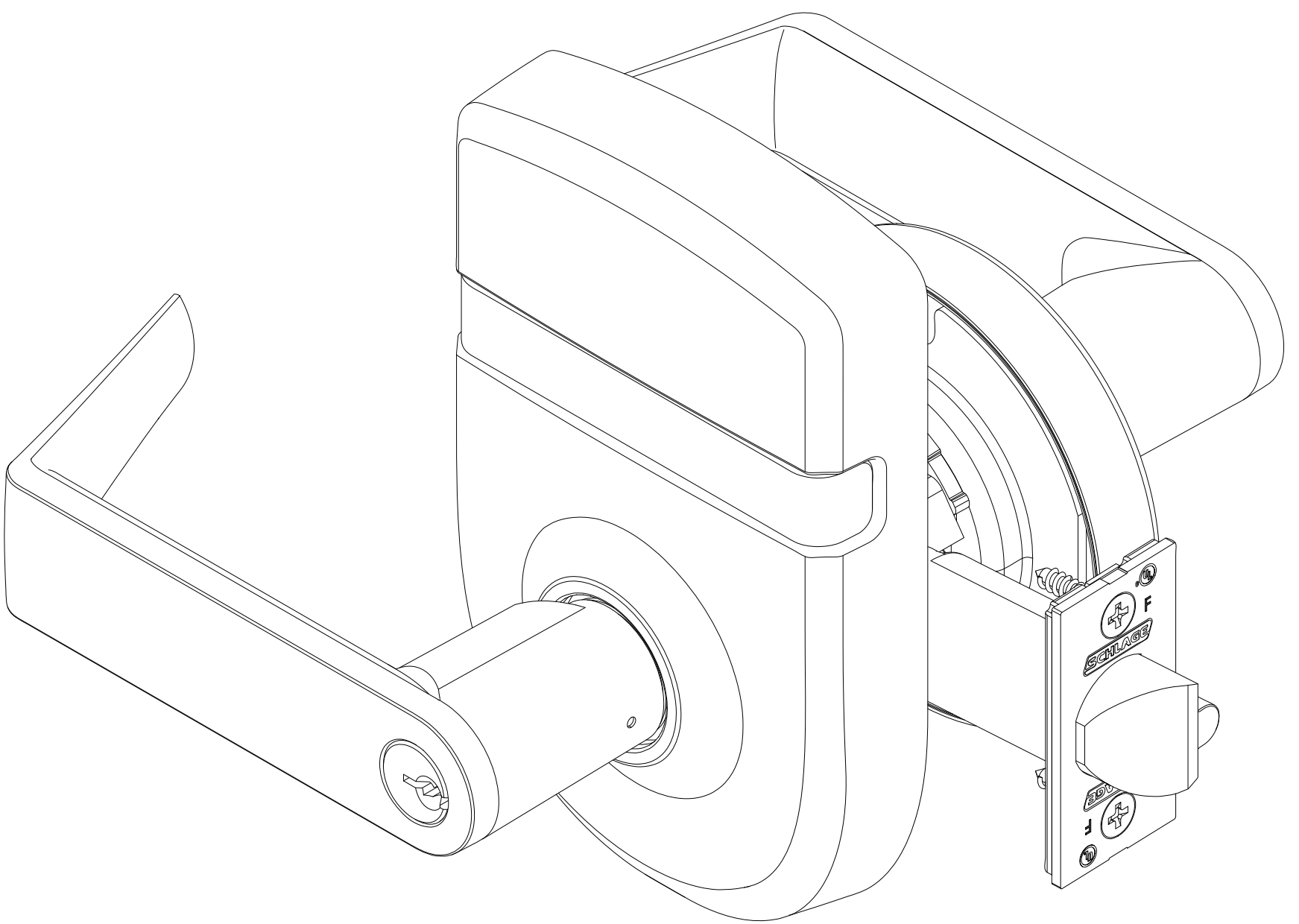




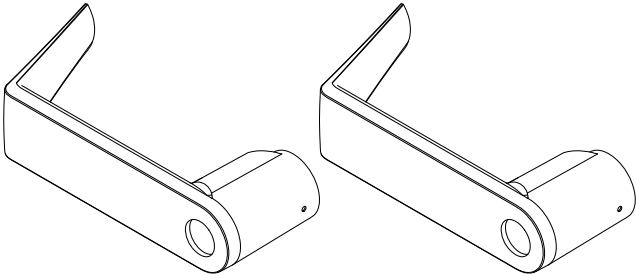
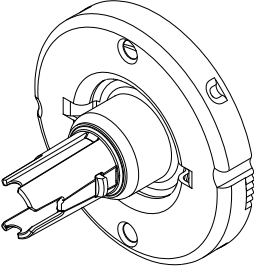
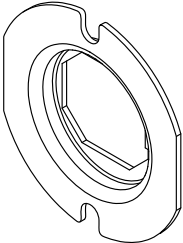
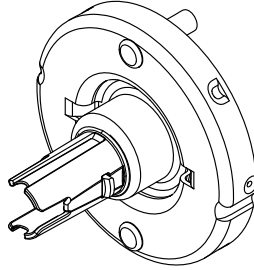
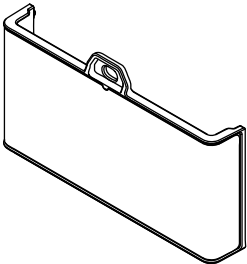
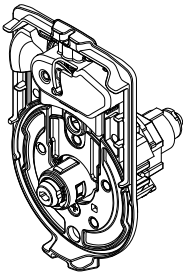
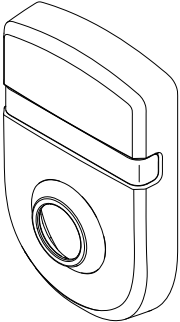
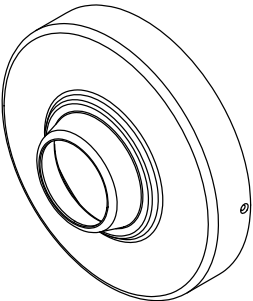
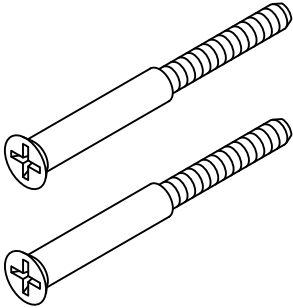
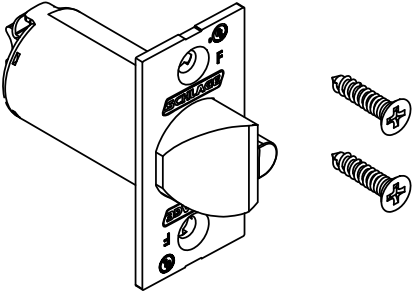
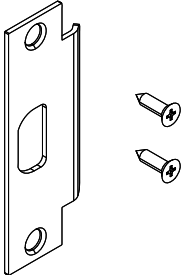
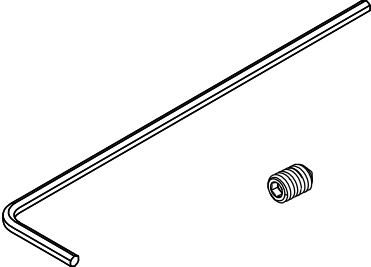
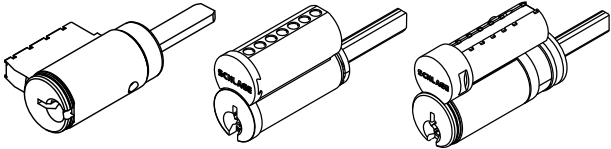
ND78/98-IS-IND

Lock and Indication Trim

Installation for 78/98 with Inside Indicator



Part Identification

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

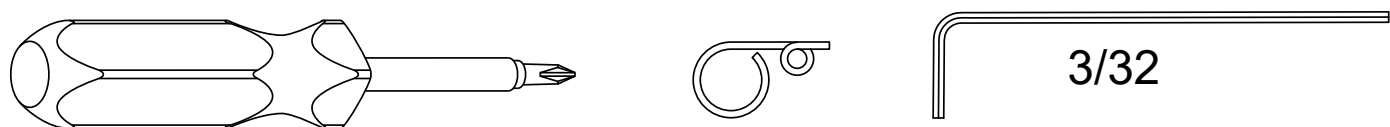
Installation Preparation

Door preparation:

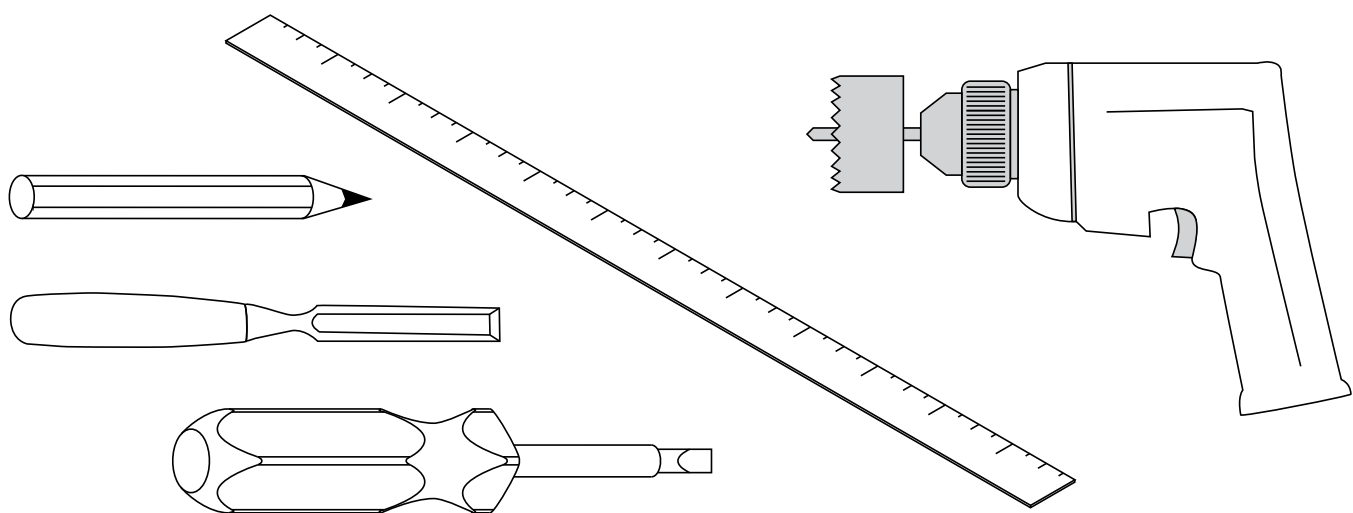
For door preparation use the template included in the package with the lock. For additional information, visit the website www.allegion.com/us.

Tools for Install

Required:



Optional:

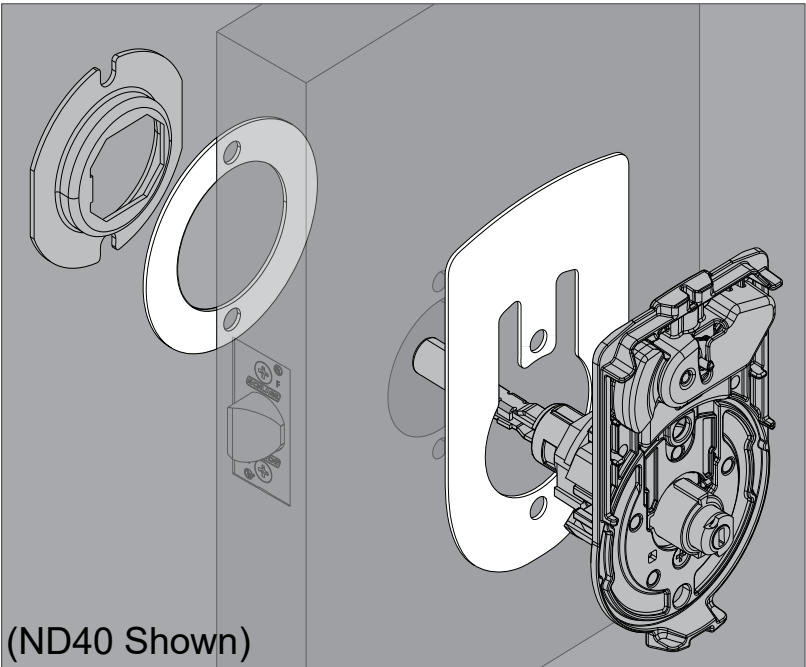


IMPORTANT – DOOR THICKNESS

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

For thinner door applications, refer to these spacer kits:

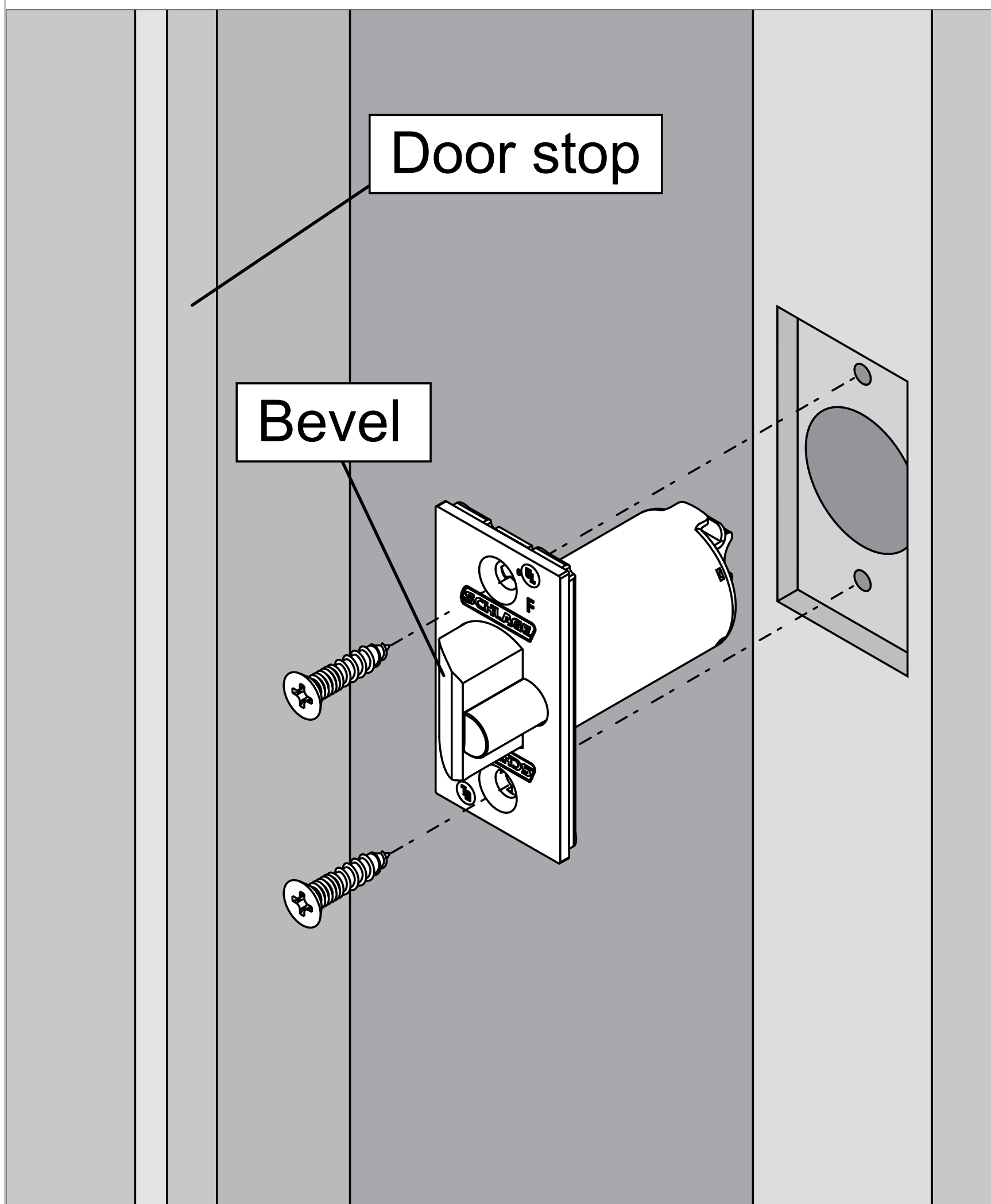
Door Thickness	PN
1 3/8” TO 1 1/2”	48029970
1 1/2” TO 1 5/8”	48029971
1 5/8” TO 1 11/16”	48029972



1 Install latch

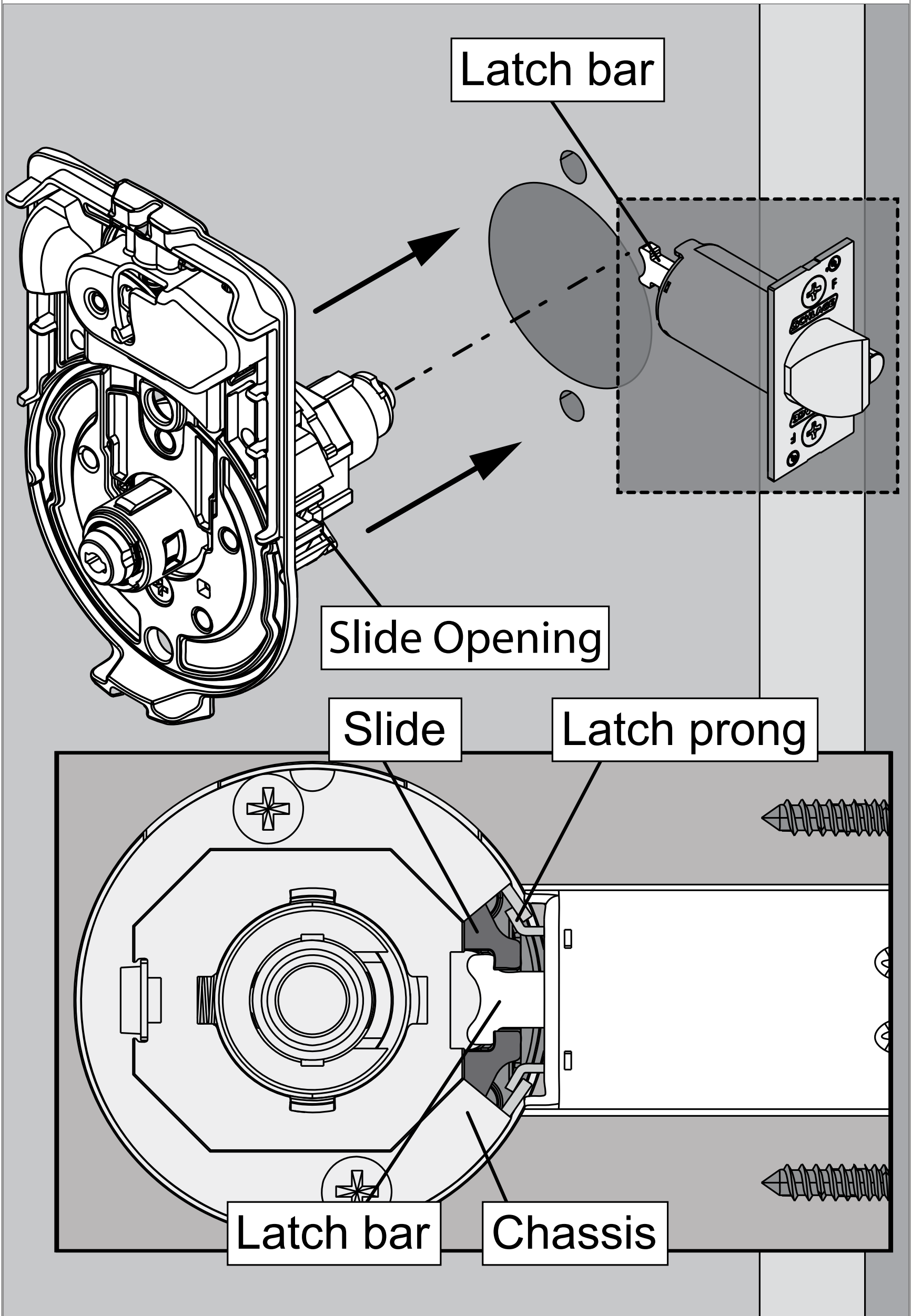
The bevel must face toward the door jamb.
Tighten the two (2) screws.

① **Note: For installation on unreinforced hollow metal doors, use of door spacer (part number 24483760) is recommended.**



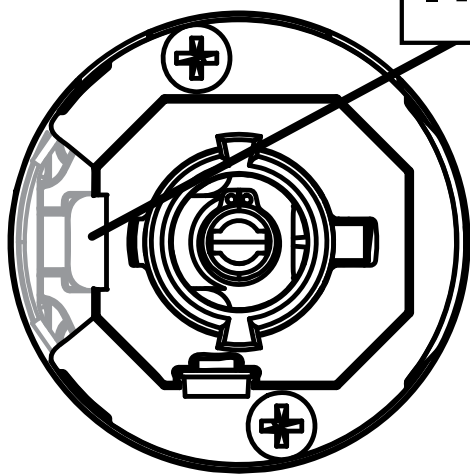
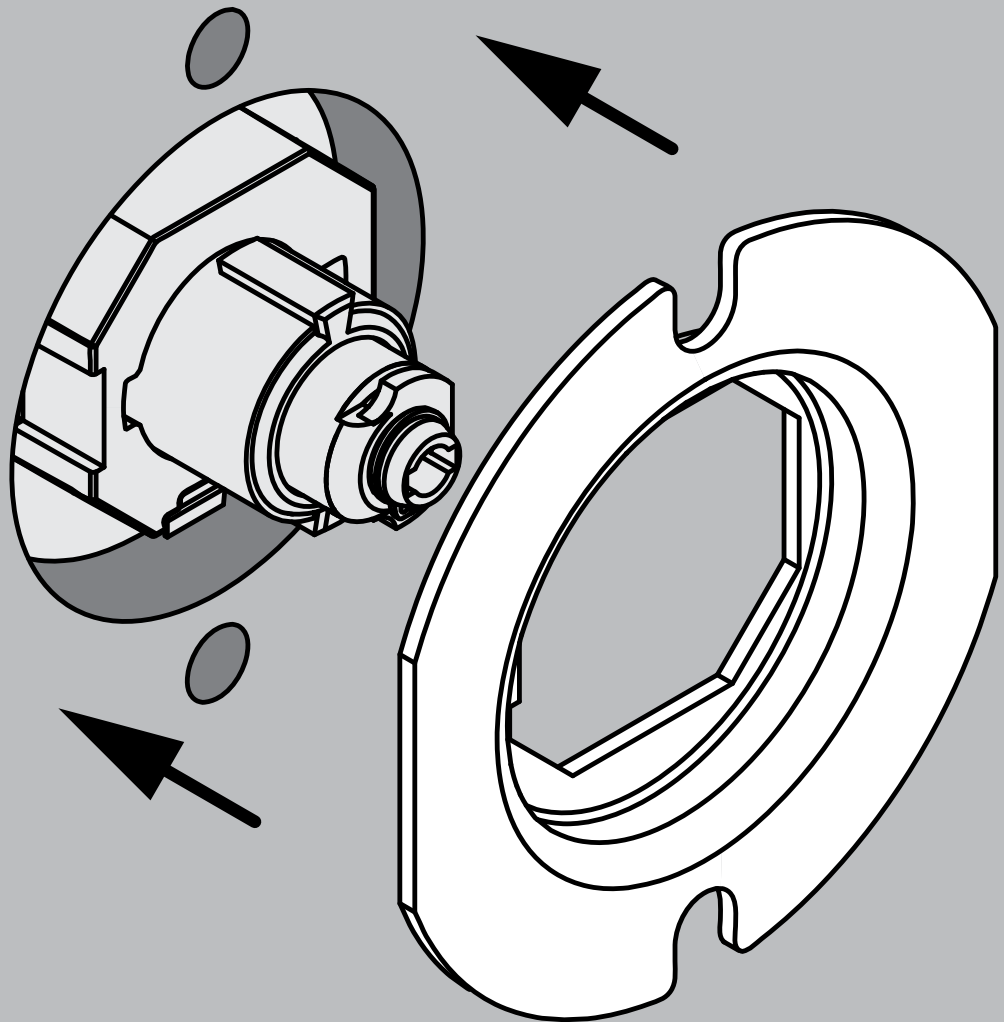
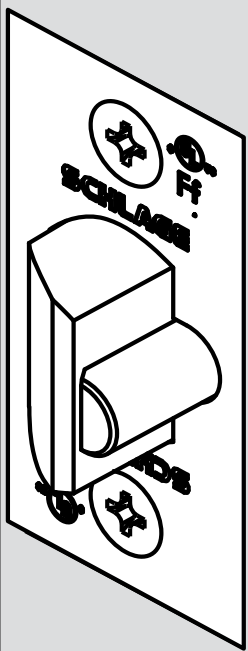
2 Install Indicator & Chassis

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

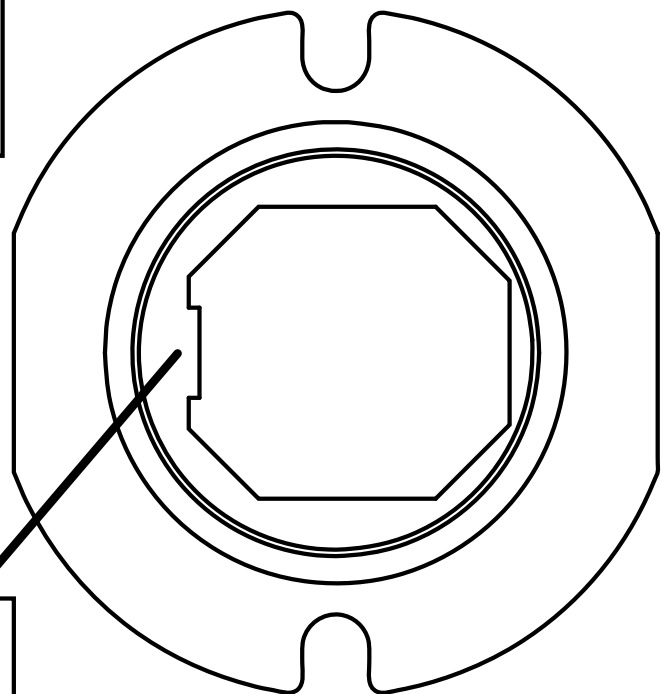


3 Install anti-rotation plate

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



Indent

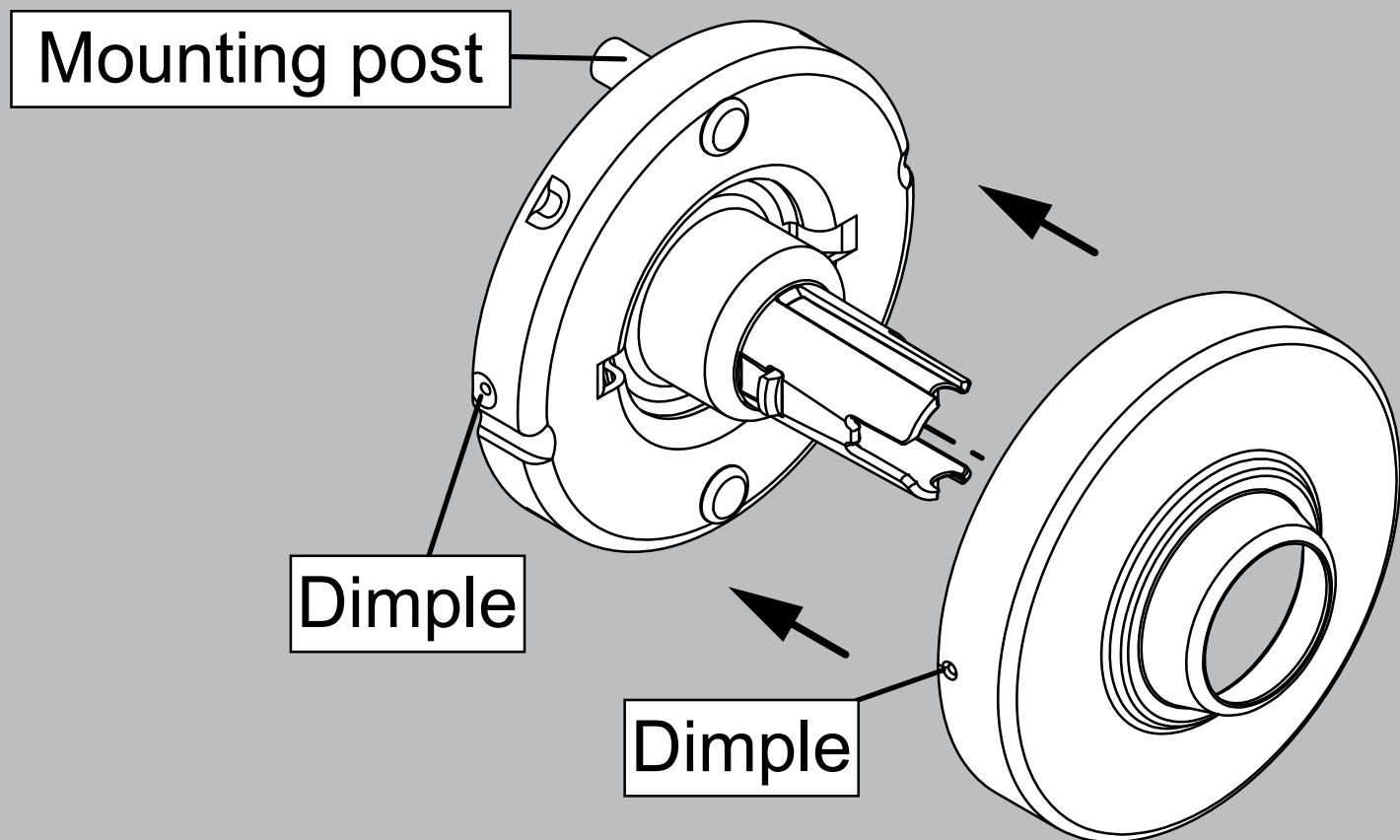


Tab

4 Assemble outside trim (1 of 2)

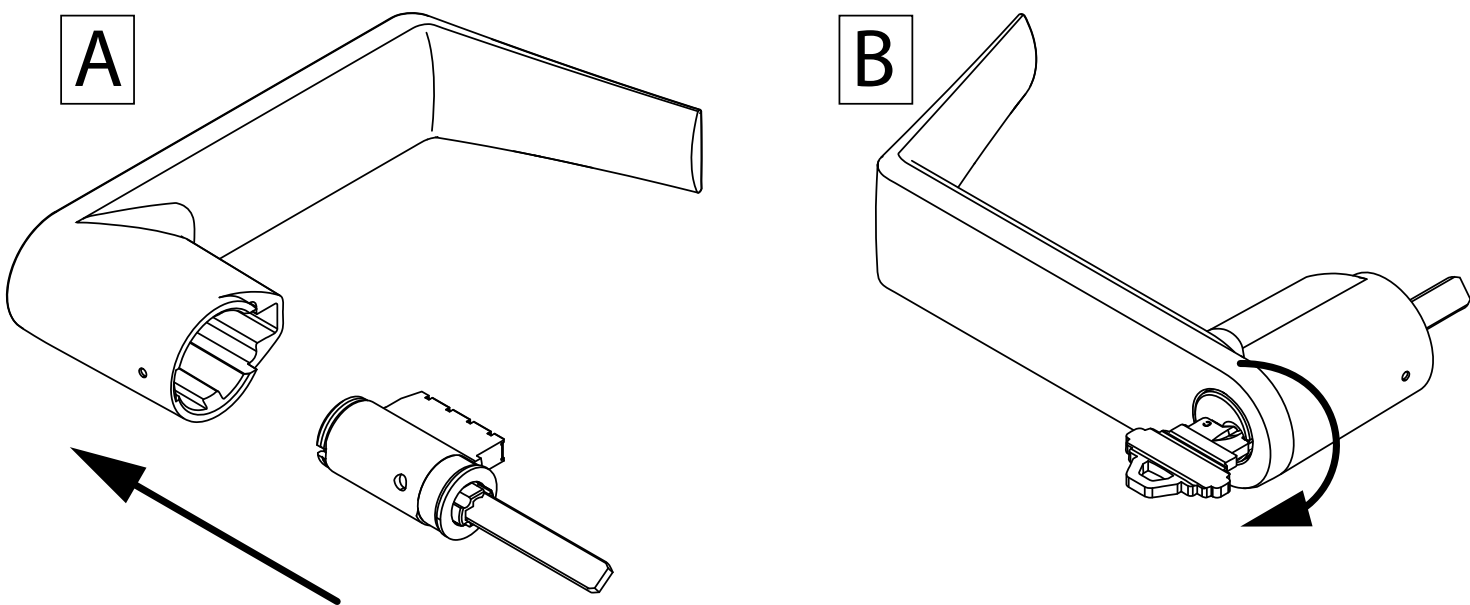
If not pre-assembled, snap the outside rose onto the outside spring cage and engage dimples.

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.

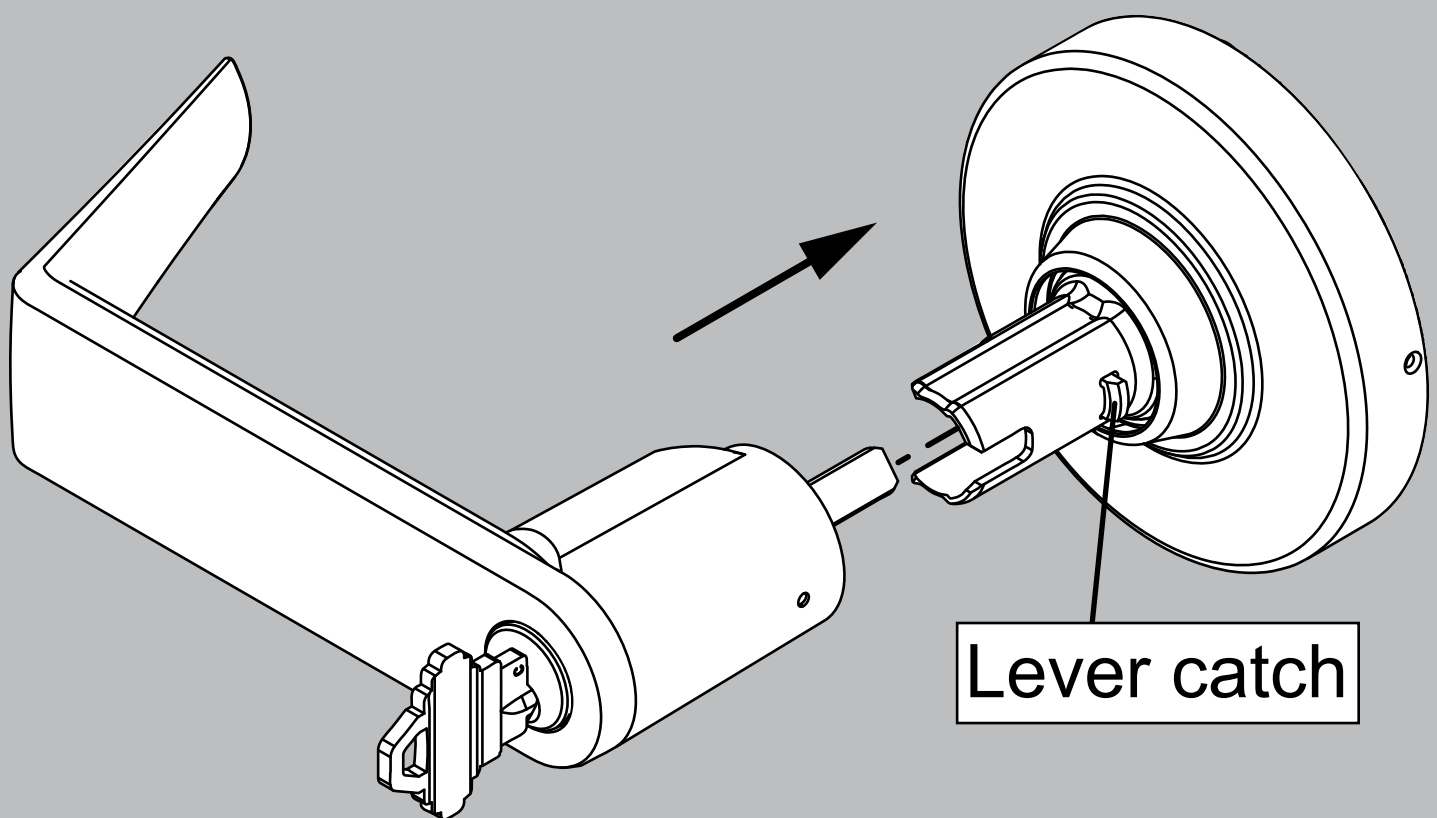
B. Rotate the key 90° clockwise.



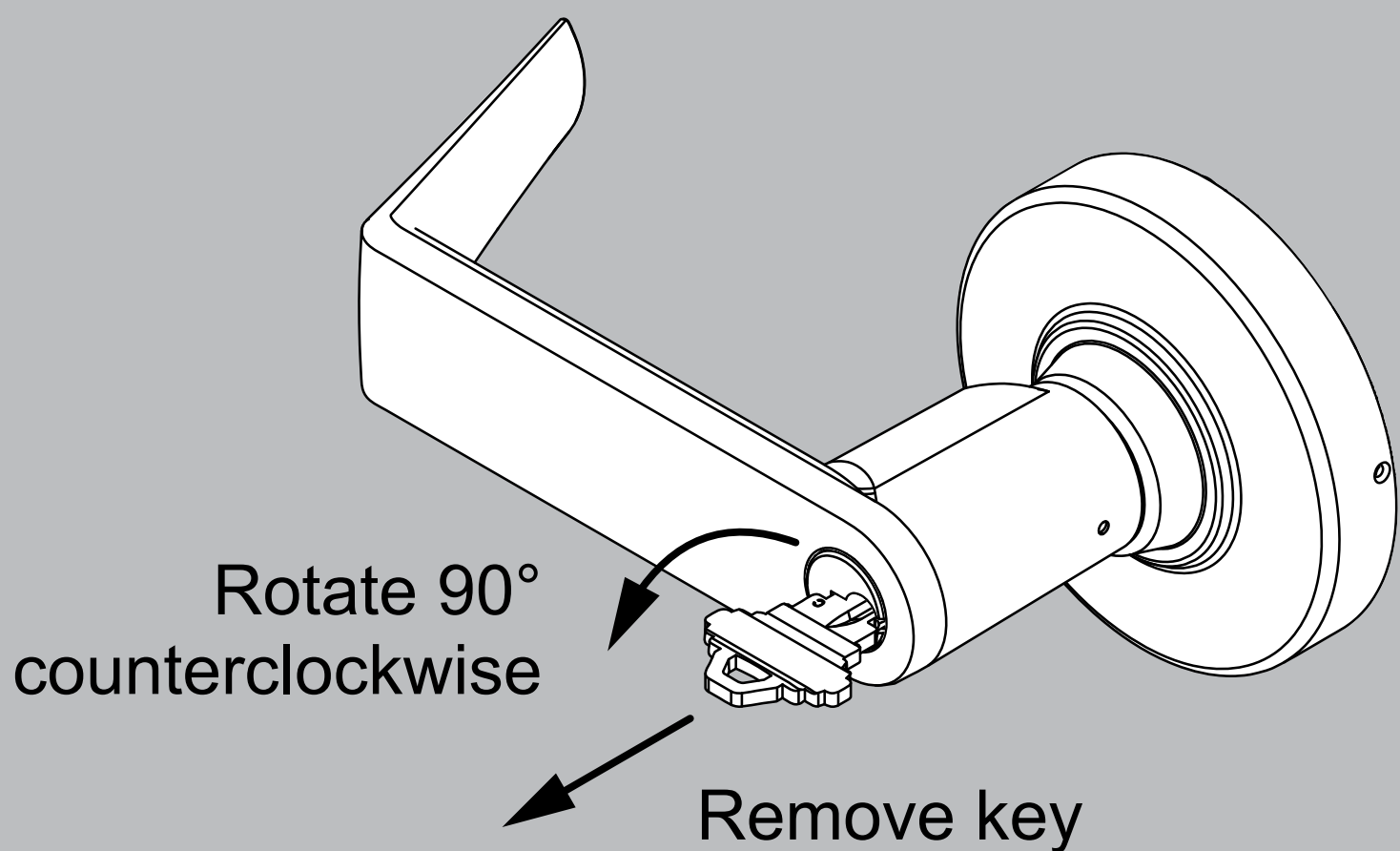
4 Assemble outside trim (2 of 2)

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

Be sure to engage the lever catch.



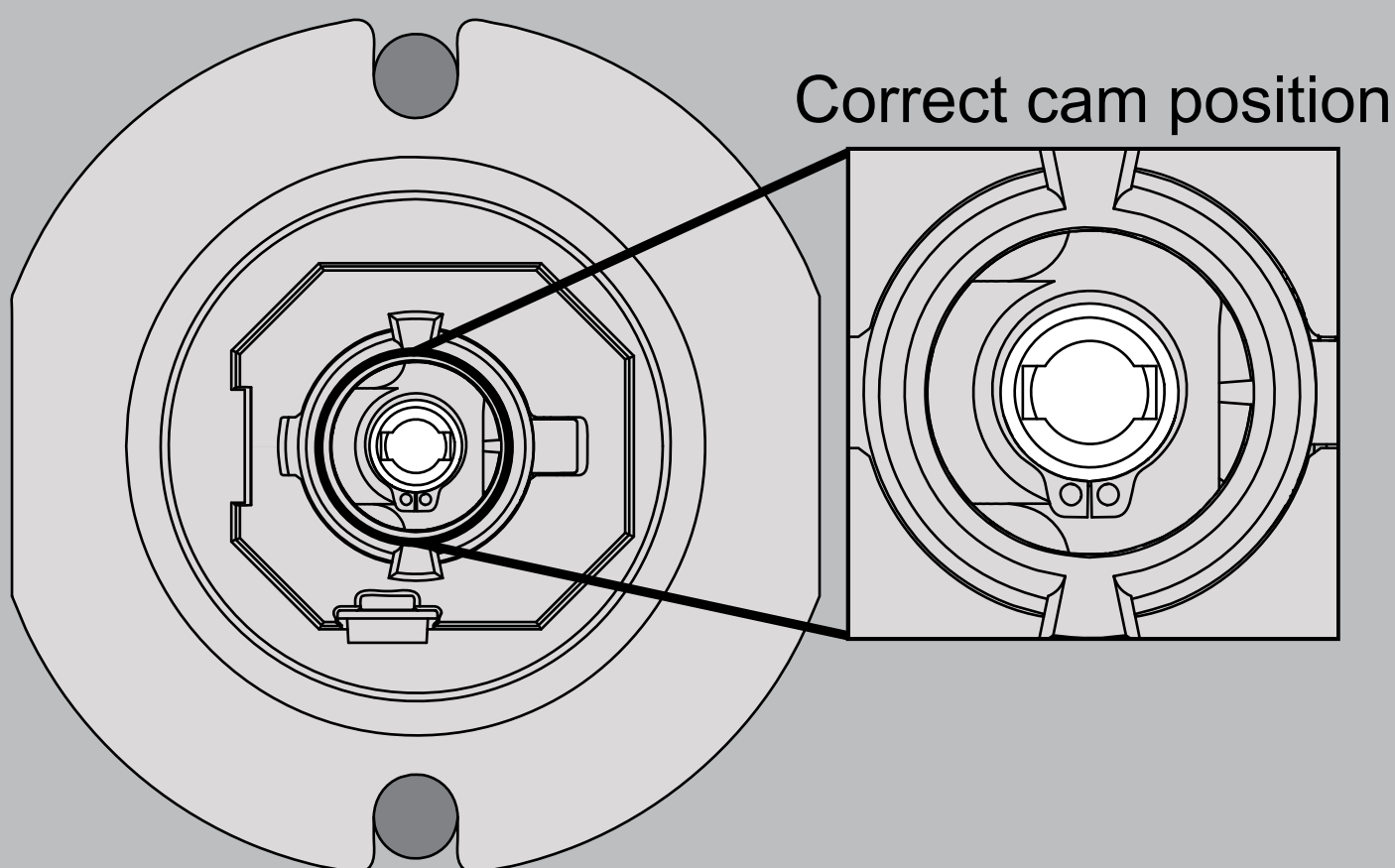
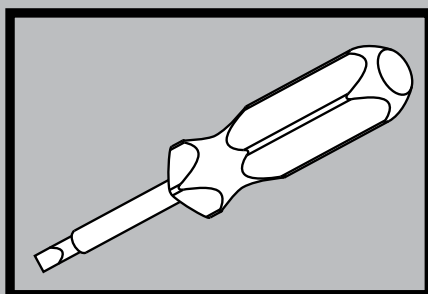
D. Rotate the key counterclockwise back to the starting position and remove the key.



5 Adjust the cam position

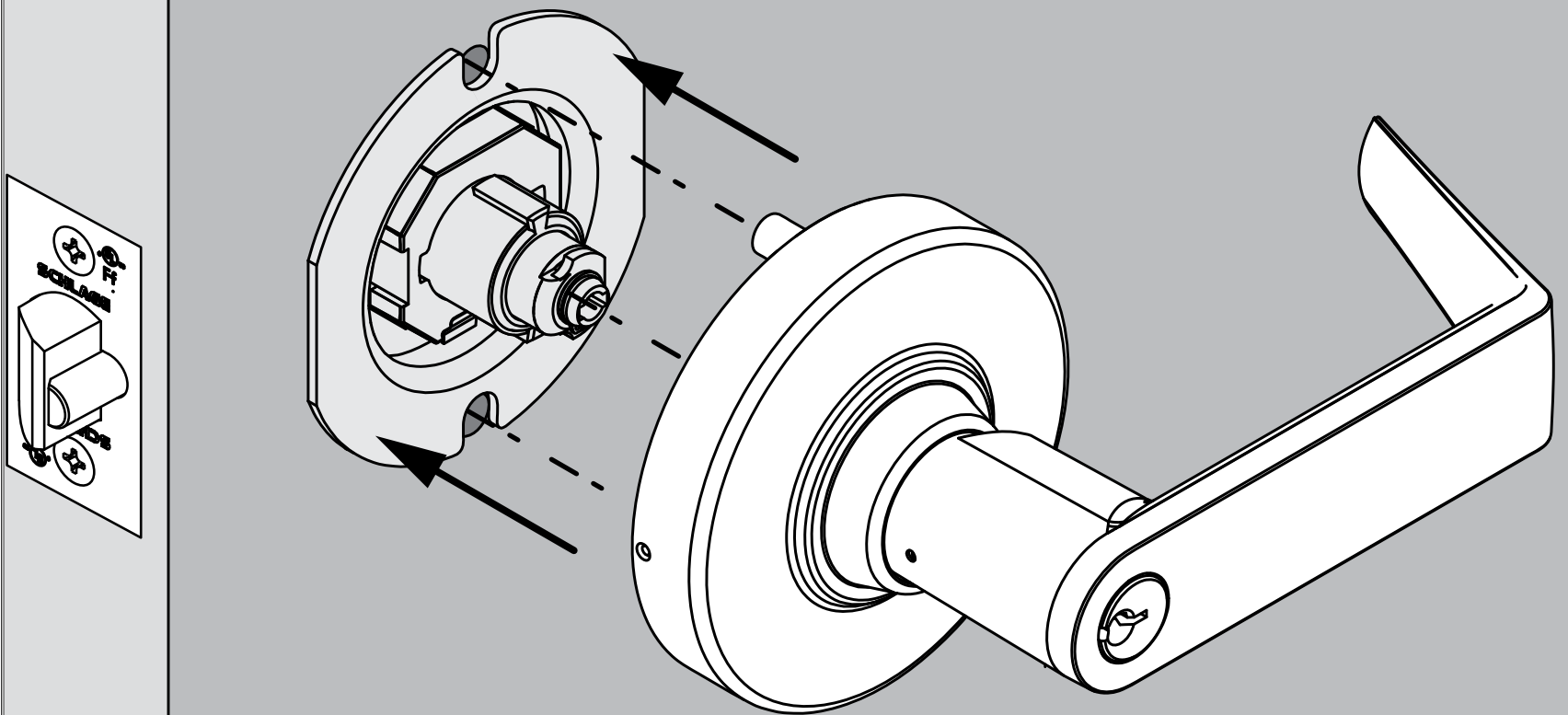
Insert screwdriver into outside keycam and rotate clockwise until cam slot is horizontal.

① Note that there is no stop when rotating the keycam.



6 Install outside trim

Install on **outside** of door.



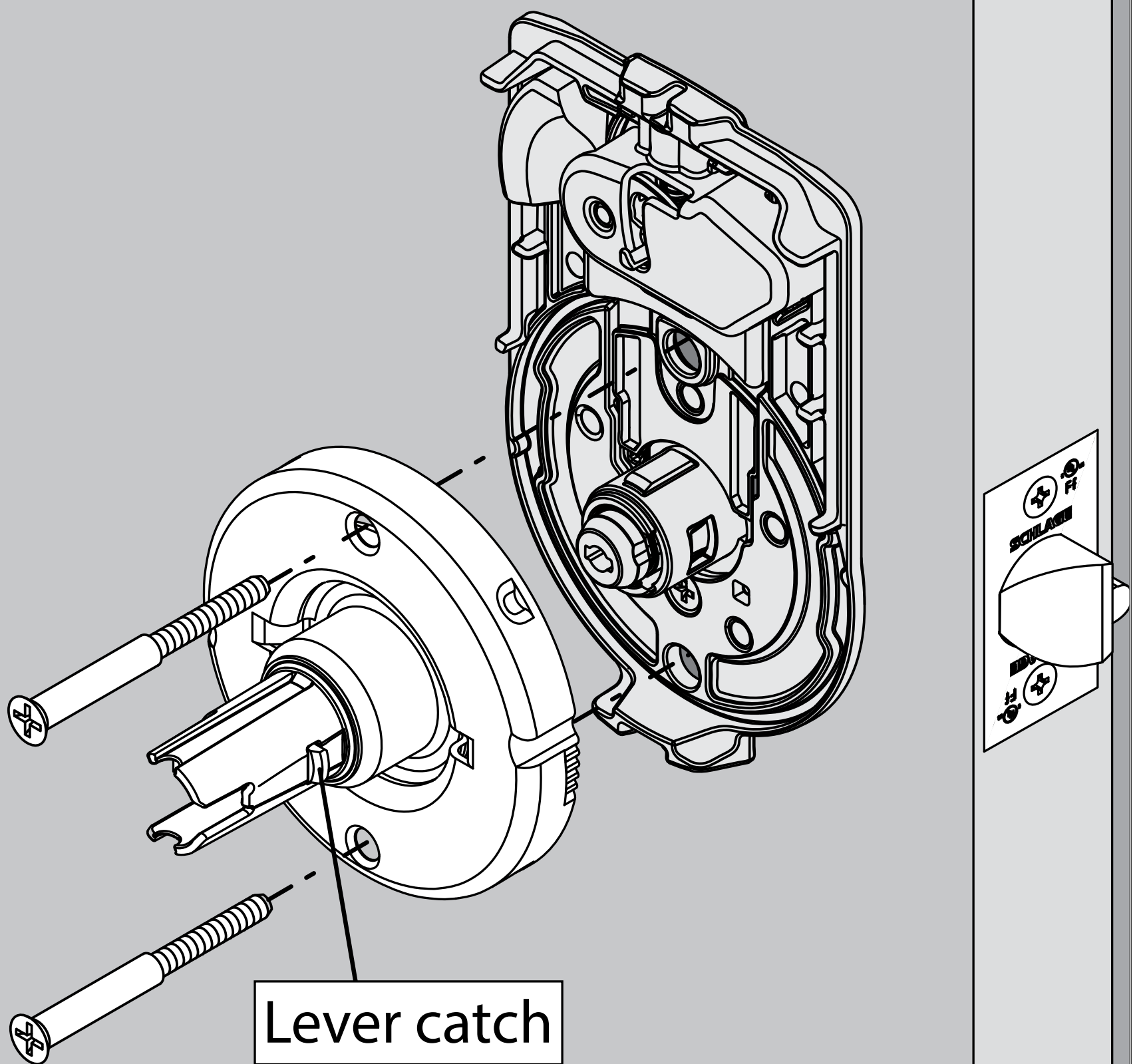
7 Install inside spring cage assembly

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

① Note: The inside spring cage has holes for screws.

WARNING

⚠ Do not overtighten the mounting screws.

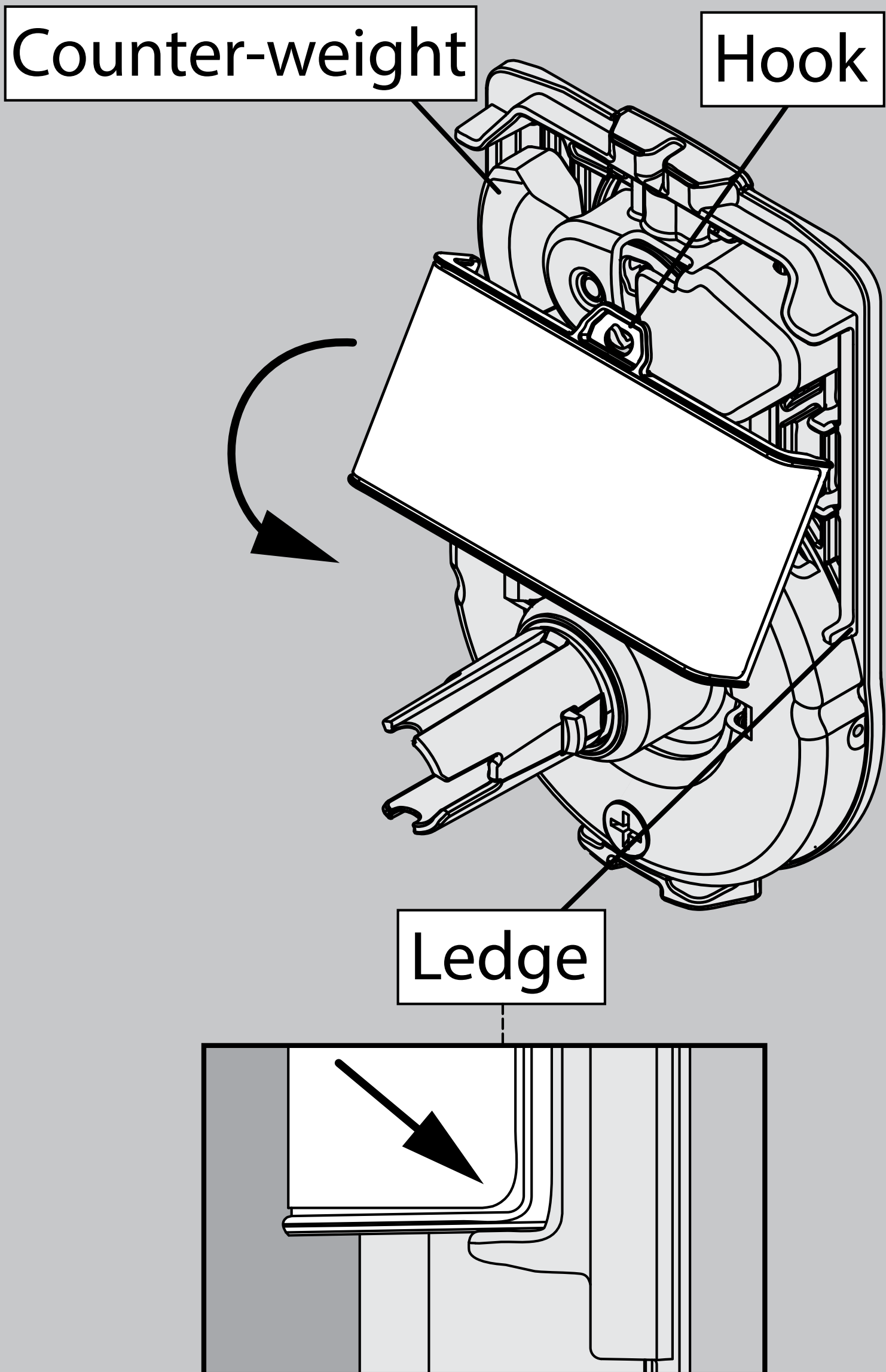


8 Install indicator sign

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.

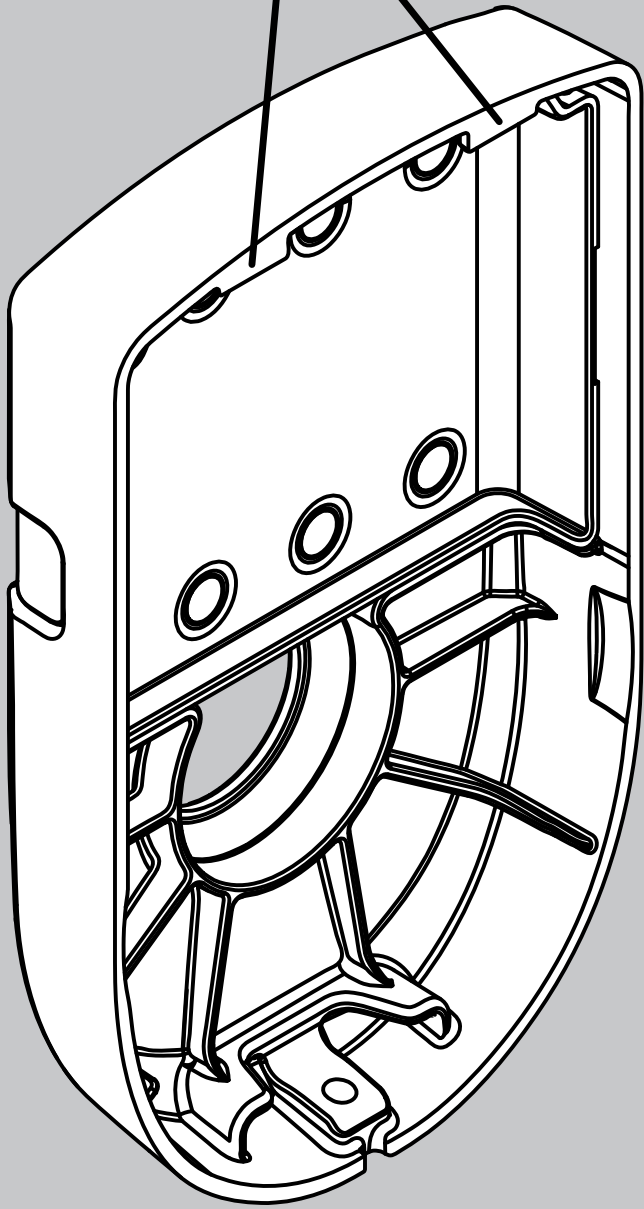
Note: If there is trouble with sign staying on hook, push down on counterweight and hook will move upwards to assist with installation.



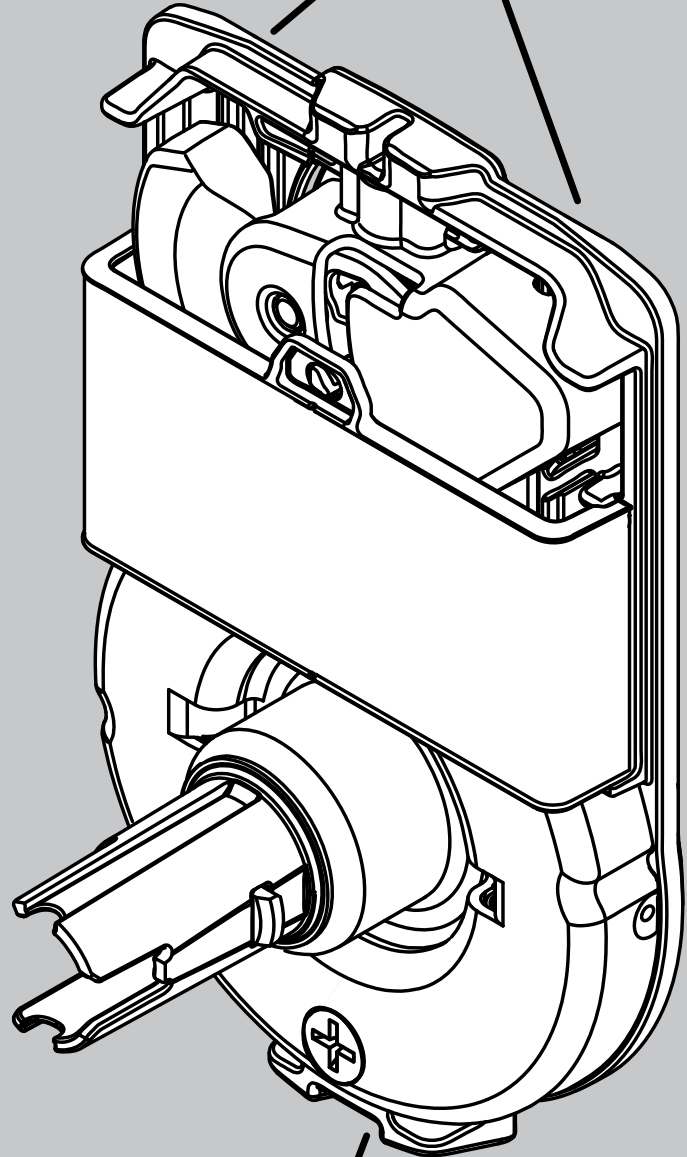
9 Install escutcheon (1 of 2)

Hook escutcheon tabs into baseplate notches.

Escutcheon tabs



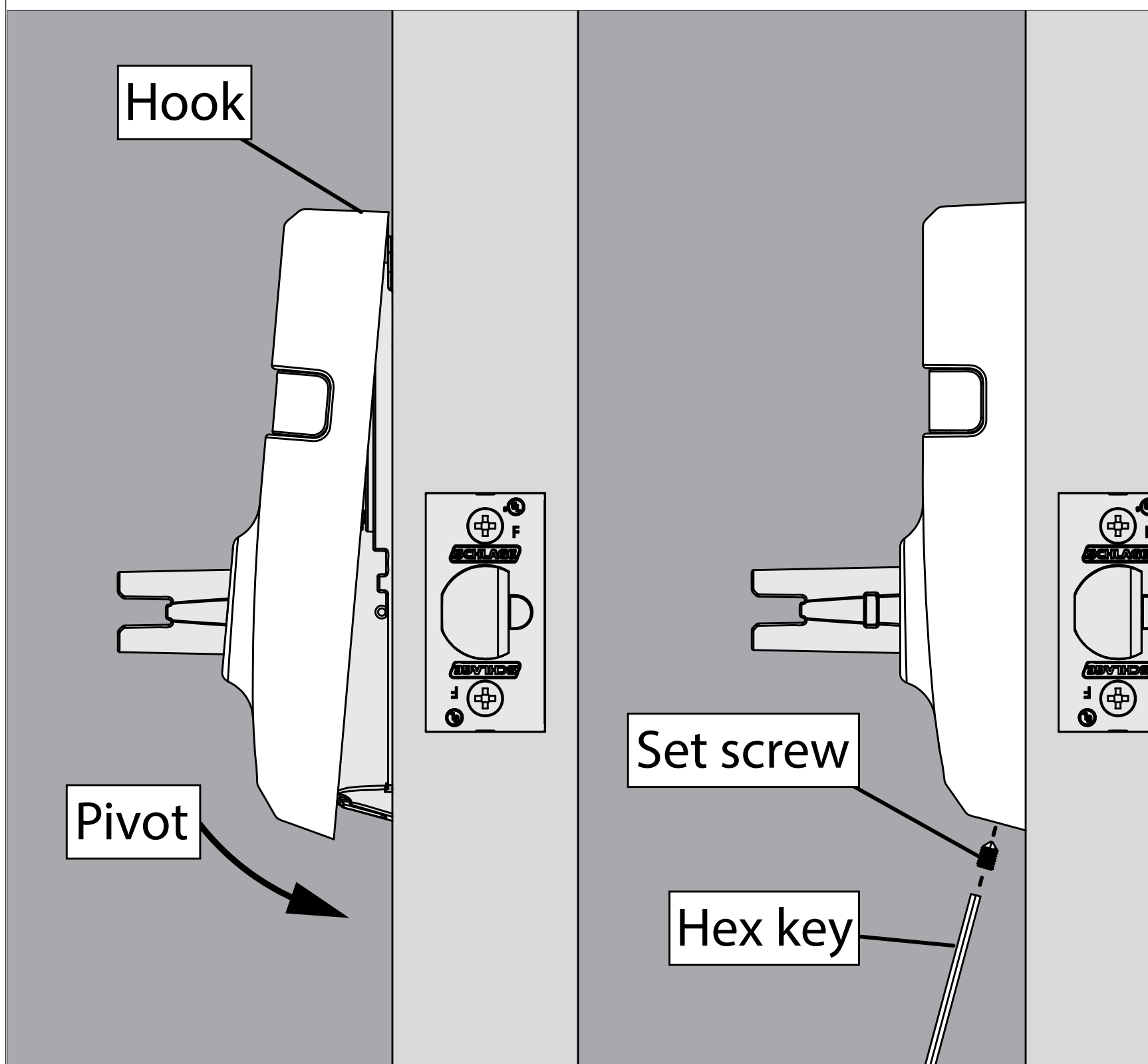
Baseplate notches



Baseplate slot

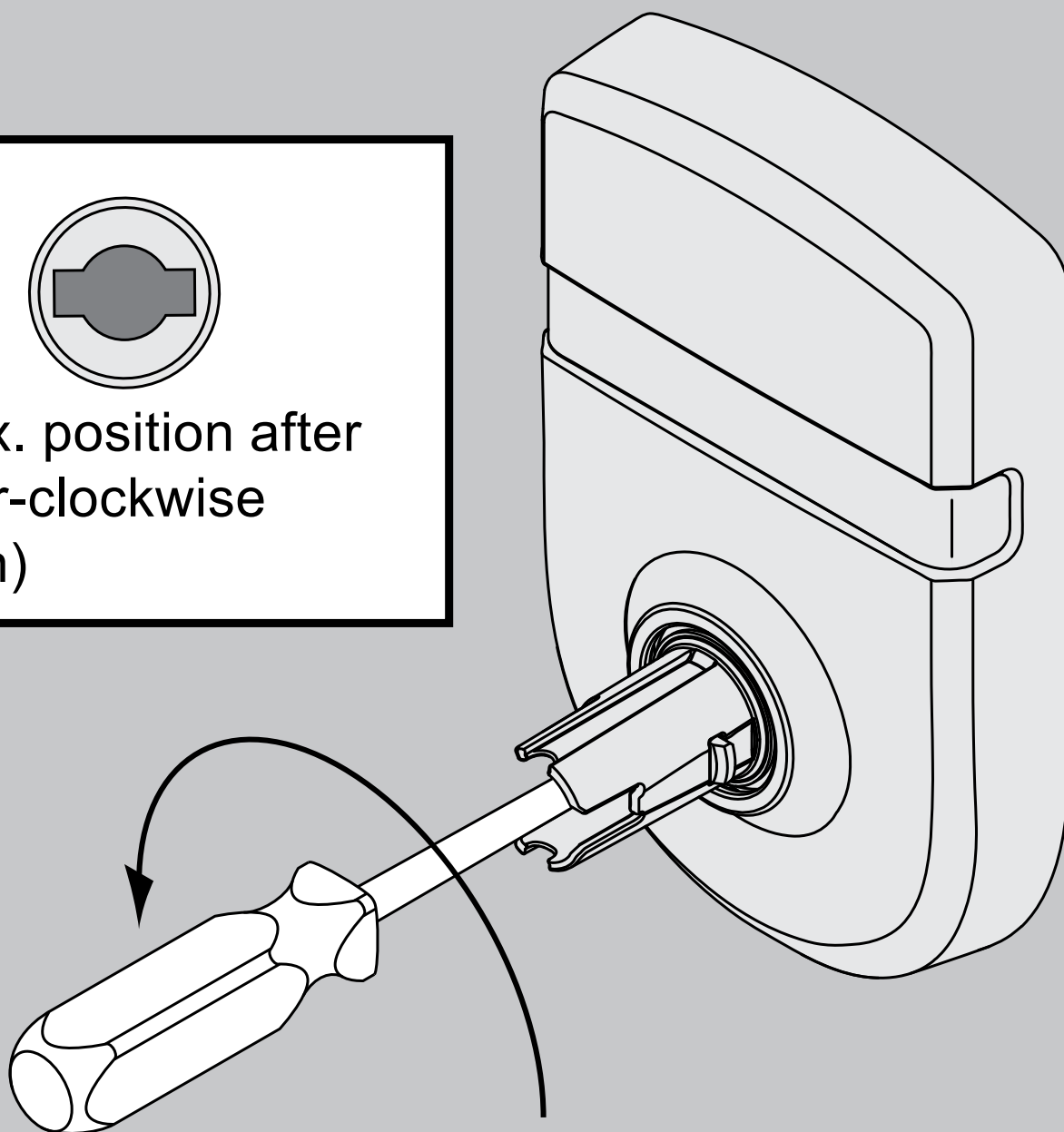
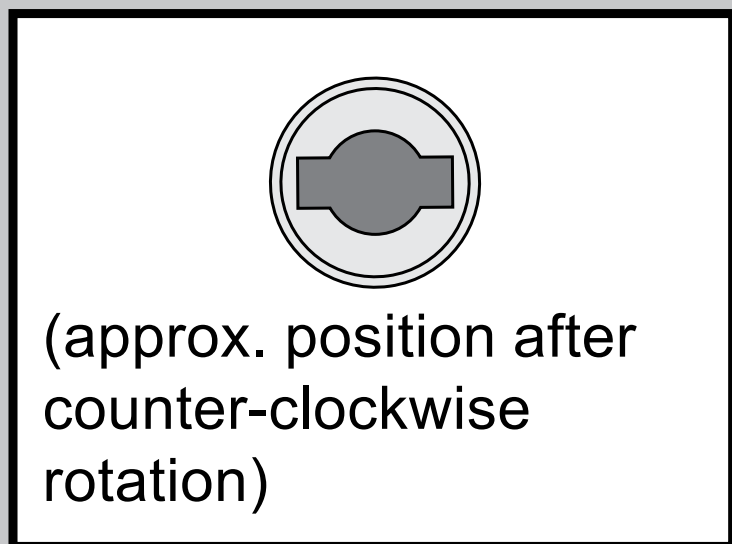
9 Install escutcheon (2 of 2)

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

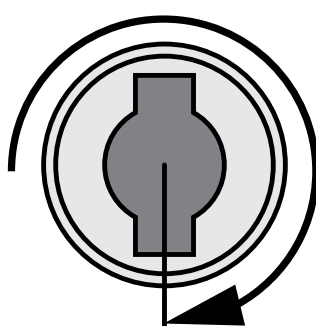


Lock Timing (1 of 2)

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



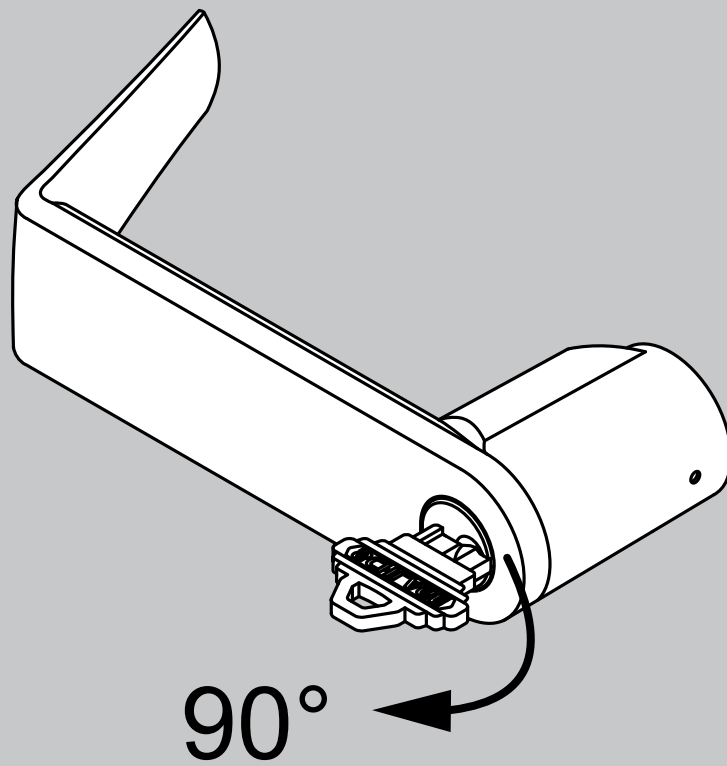
- B.** Now, from **INSIDE** rotate the key cam **CLOCKWISE** to:



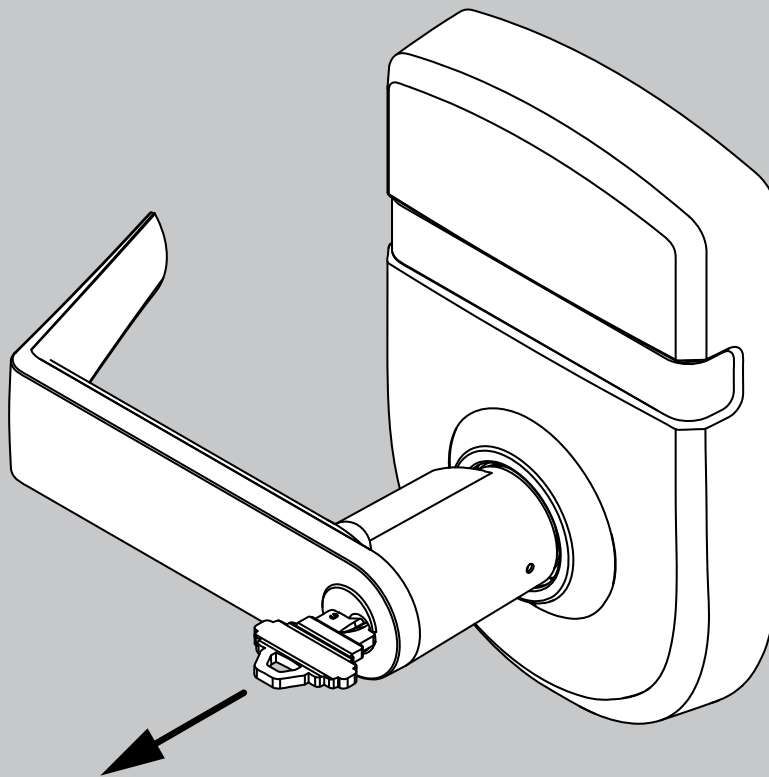
(approx. 270°)

Lock Timing (2 of 2)

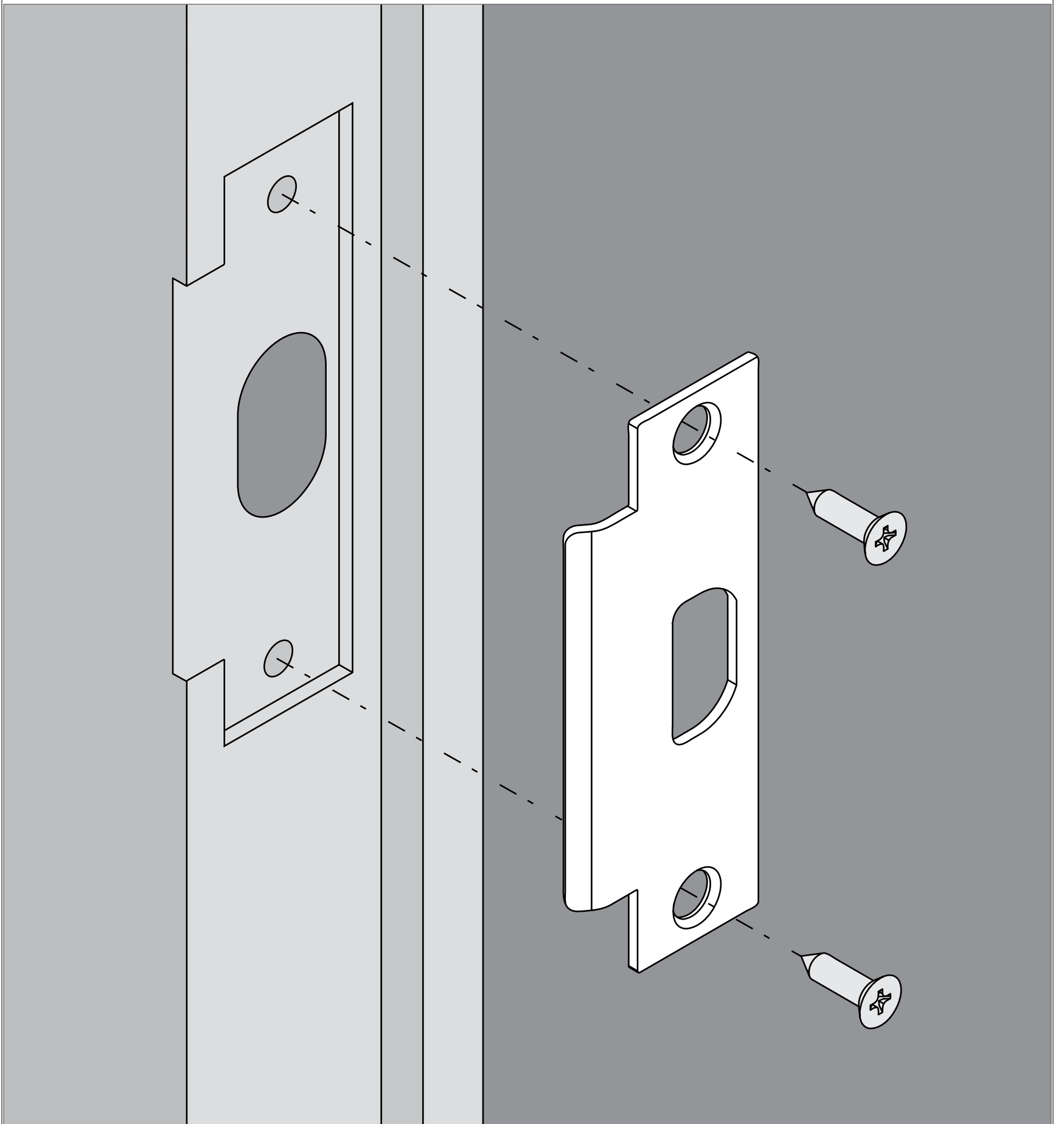
- C.** Install Cylinder and Lever. With key rotated 90° **CLOCKWISE**, press lever onto lever post.



- D.** 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.



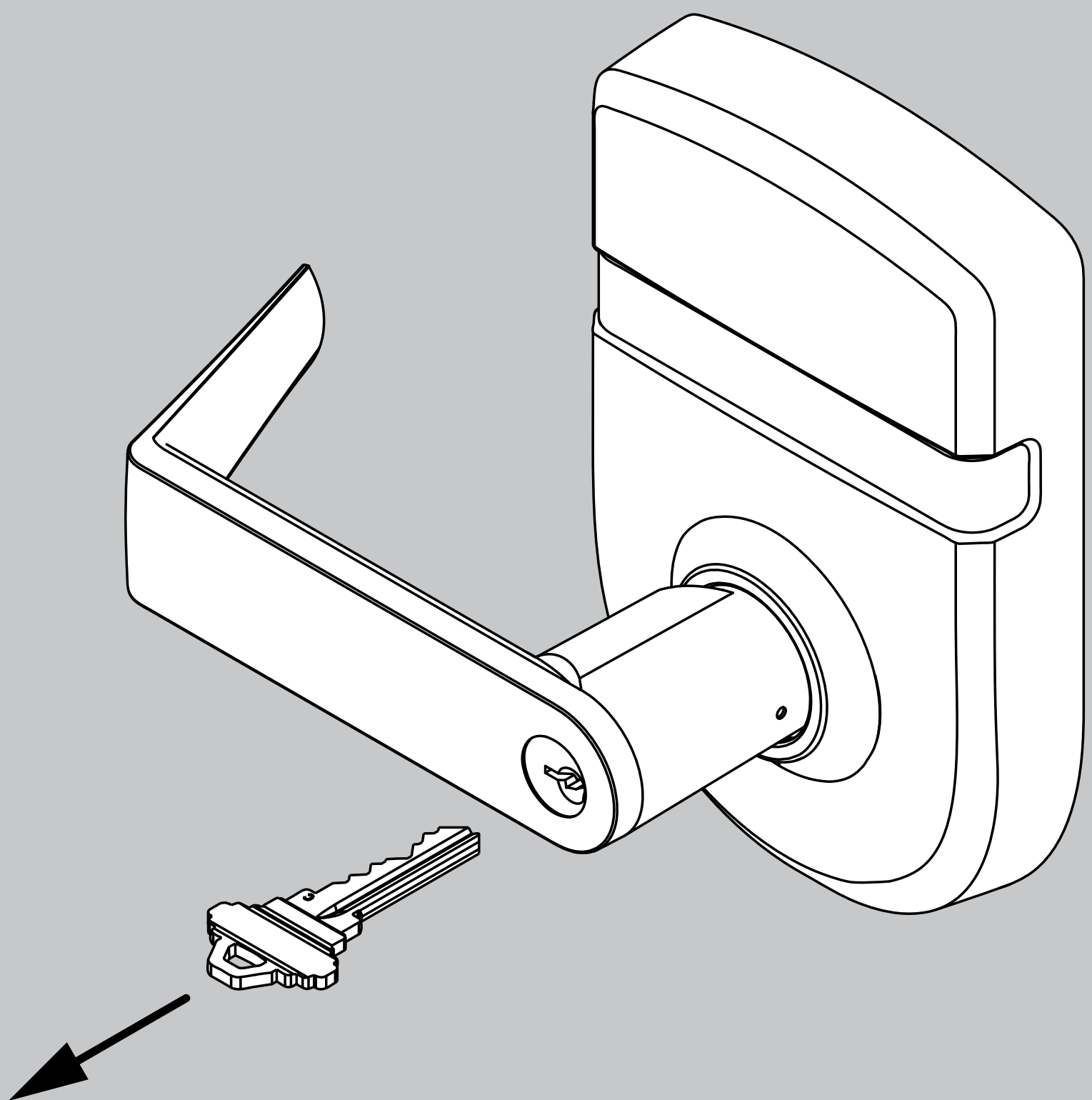
10 Install strike



11 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**”.

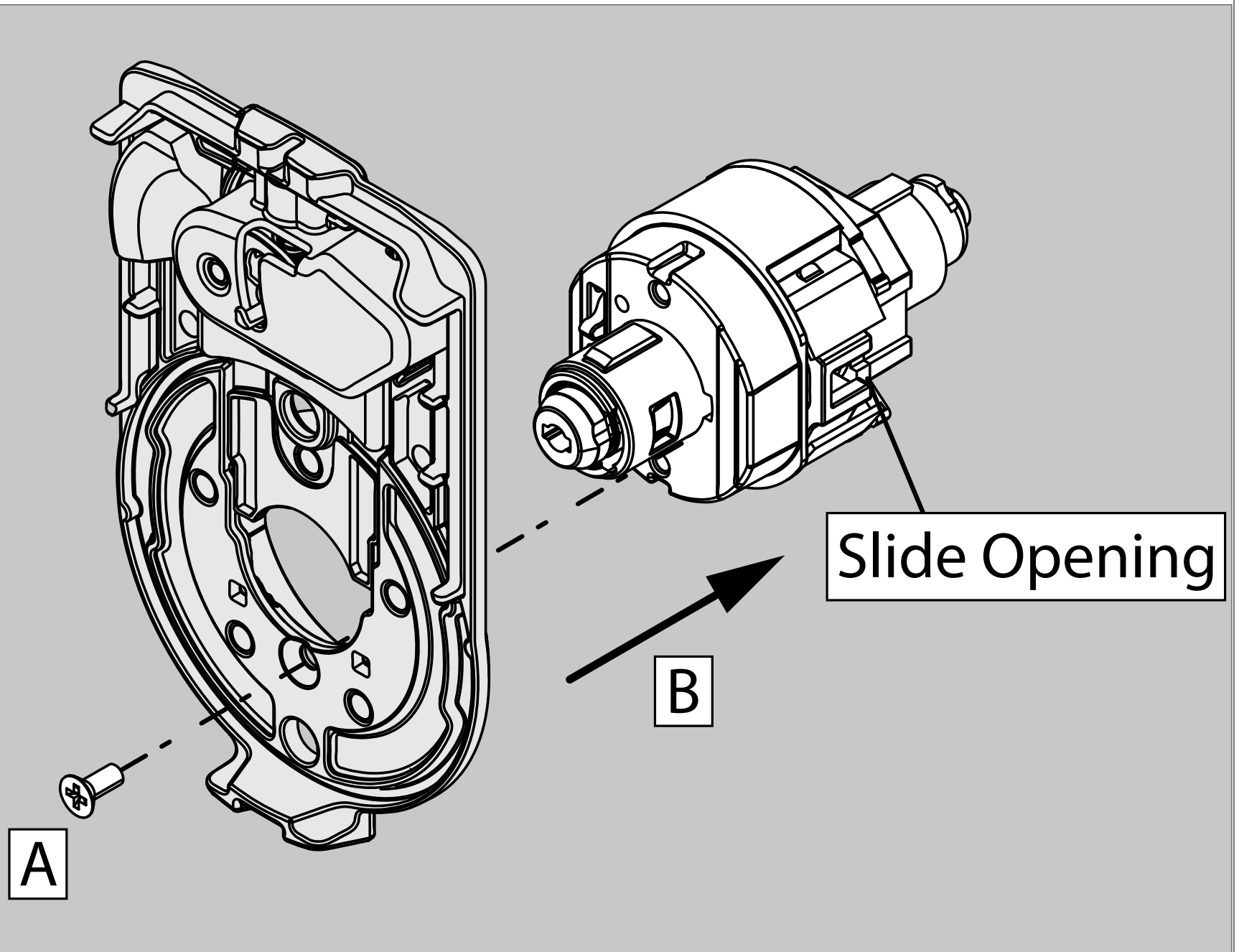
5. The inside lever should always be unlocked and rotate freely.

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.

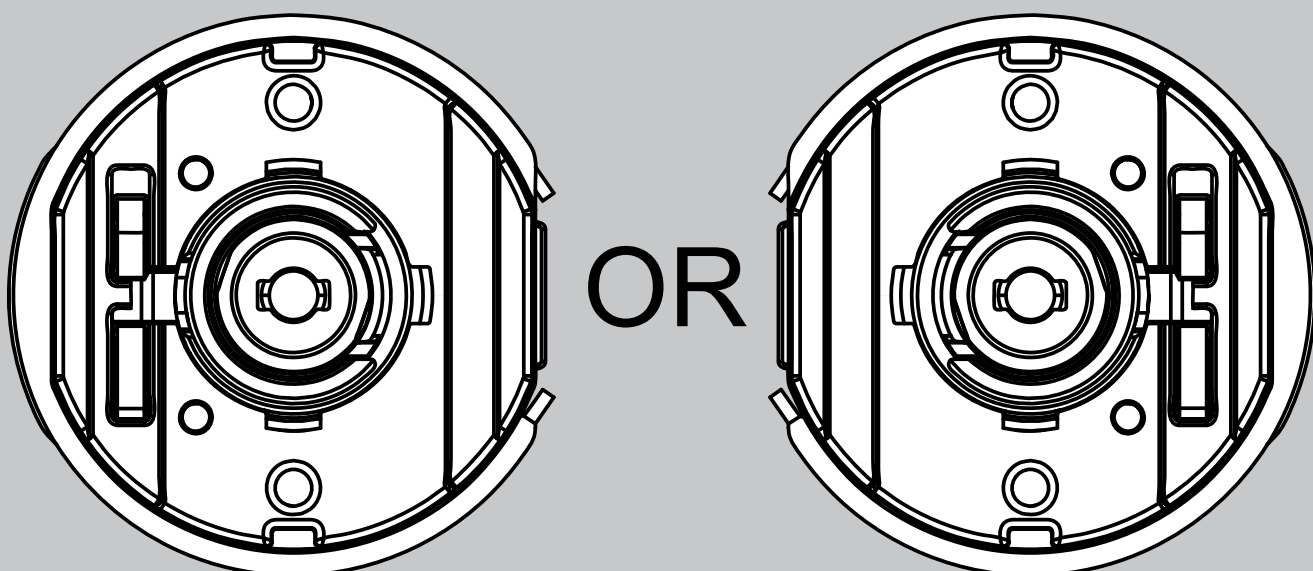
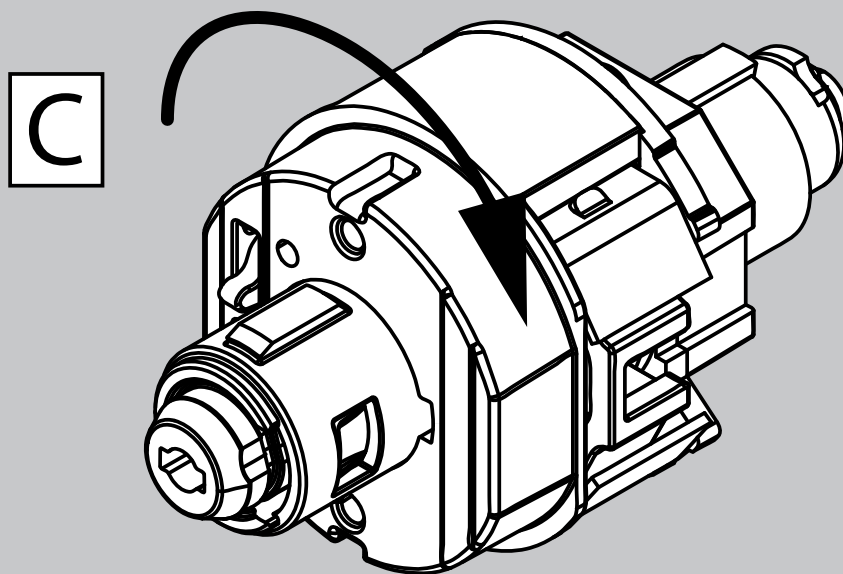
B Separate the indicator assembly from the lock chassis.



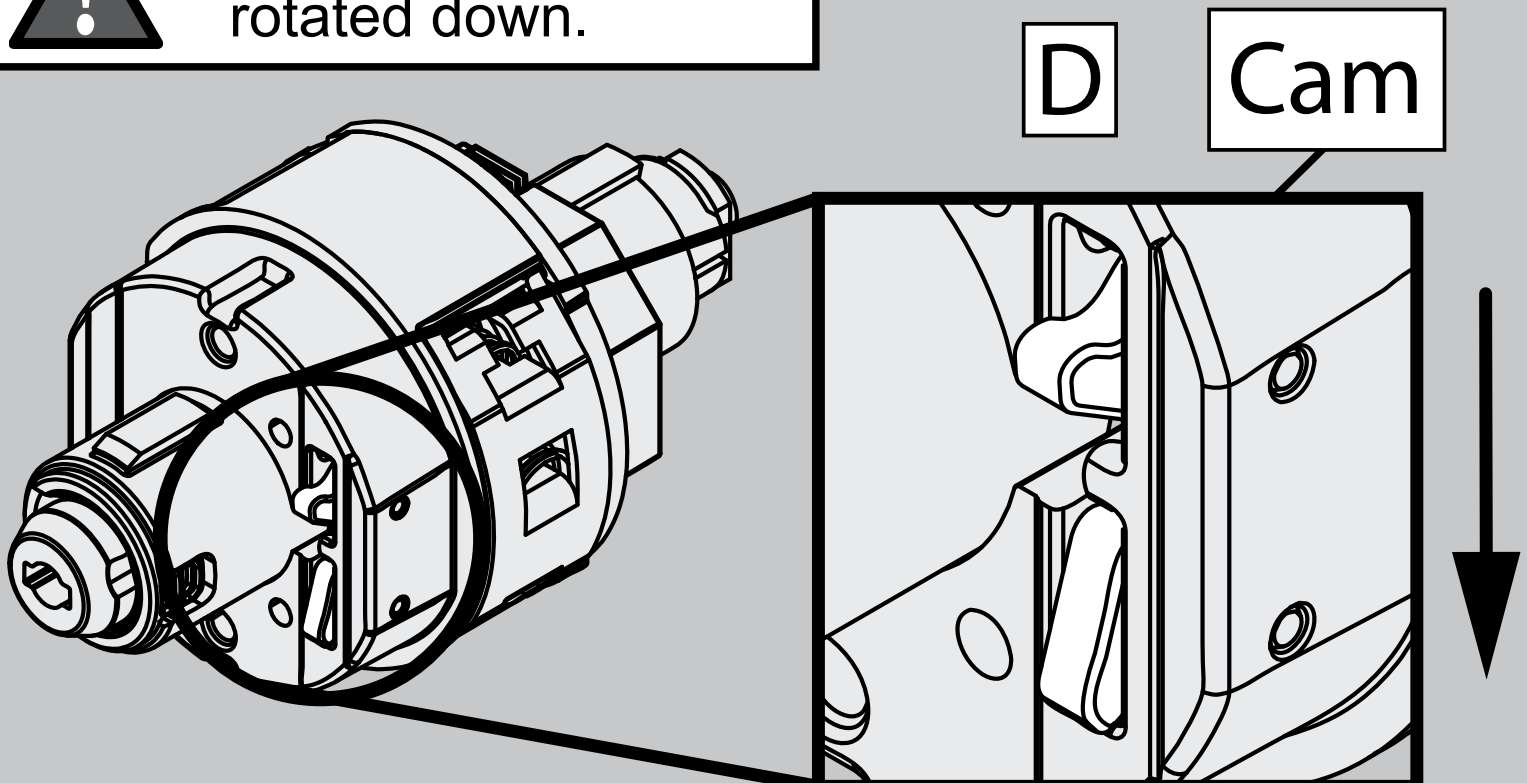
Chassis Handing (2 of 3)

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.



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.

