Installation Instructions for 83K–85K Cylindrical Locks

Preparing the door

For factory prepared doors only

1 Install the latch so that the bevel on the latchbolt faces the strike lip.

2 Adjust the outside rose so that the chassis is centered in the door. Install the chassis from the outside of the door.

3 Install the inside rose, rose ring, knob, and strike plate.

Caution: **If you use fabricated hollow metal doors, determine whether the doors are reinforced enough to support the lock. If the door reinforcement is not adequate, consult the door manufacturer for information on proper reinforcement.**

Note: *For detailed installation instructions, see the following steps.*

1 Position template

1 Fold the template and place it in position on the high edge of the door bevel. (See Figure 2.)

2 Mark the drill points.

Note: *Suggested height from floor to centerline of the lock is 40 5/16". If steel frames are used, the latch centerline must be in line with the center of the strike preparation.*

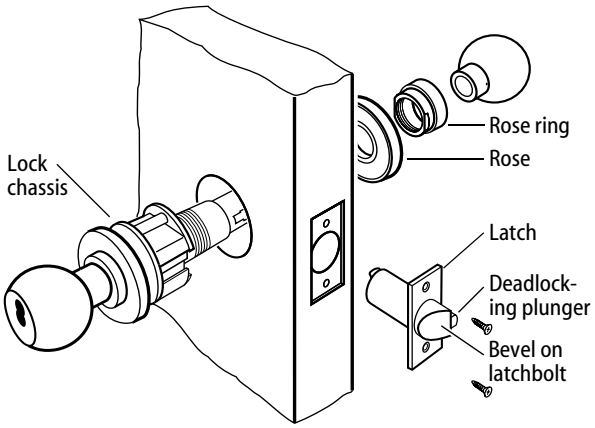


Figure 1 Overview diagram

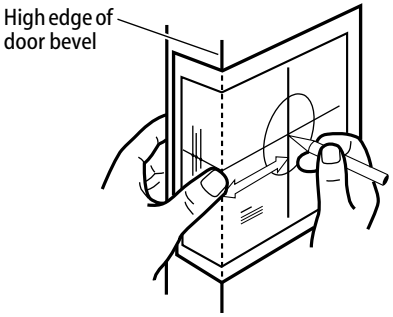


Figure 2 Marking the drill points

Preparing the lock

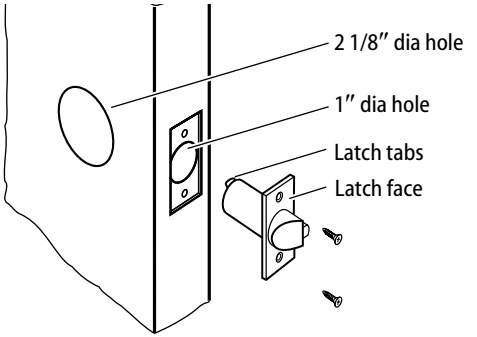


Figure 3 Boring holes and installing the latch

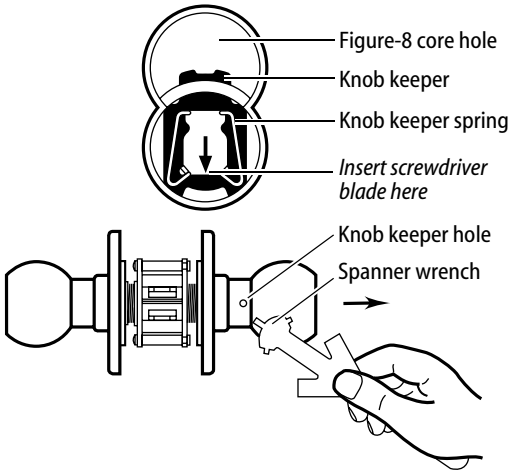


Figure 4 Removing inside knob and trim

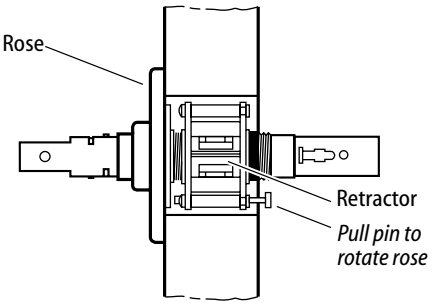


Figure 5 Marking the centerlines

2 Bore holes and install latch

1 Bore a 2 1/8″ diameter hole from both sides of the door to the center of the door. (See Figure 3.)
2 Drill a 1″ diameter hole from the edge of the door that intersects the 2 1/8″ hole.
3 Mortise the door edge for the latch face.
4 Install the latch and check the door swing. Latch tabs should project into the 2 1/8″ diameter hole. See Task 5, *Install chassis*.

3 Remove inside knob and trim

For inside knobs with button or blank face:

1 Insert the spanner wrench tip into the knob keeper hole and depress the keeper. (See Figure 4.)
2 Slide the knob off.
3 Unthread the rose ring and remove the rose.

For keyed inside knobs:

1 Remove the core and throw member (if not already removed). For instructions on removing the core, see Task 9, *Install core*.
2 Insert a screwdriver into the figure-8 core hole and into the keeper. (See Figure 4, top.)
3 Using the edge of the screwdriver, press down on the keeper and slide the keyed knob off of the sleeve.

Caution: **You will not be able to remove the knob if you put the screwdriver blade too far past the keeper.**

4 Center lock in door

Check to see if the lock retractor is centered in the door.

- If centered, proceed to Task 5, *Install core*.
- If not centered, use the door as a reference and center the retractor in the door. Do this by pulling the rose locking pin and rotating the outside rose in or out. (See Figure 5.)

Caution: **Center the retractor before proceeding to Step 5, *Install chassis*.**

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Installing the lock

Note 1: *Make sure the locking pin locks back into the rose liner.*

Note 2: *Locks with standard trim will fit doors 1 3/8″ to 2 1/8″ thick. Locks with 'E' trim will fit doors 2 1/4″ to 3″ thick.*

5 Install chassis

- After the retractor has been centered, and with the latch in place, install the chassis from the outside of the door. Make sure the latch tabs fit into the chassis frame and the latch tailpiece fits into the retractor. (See Figure 6.)

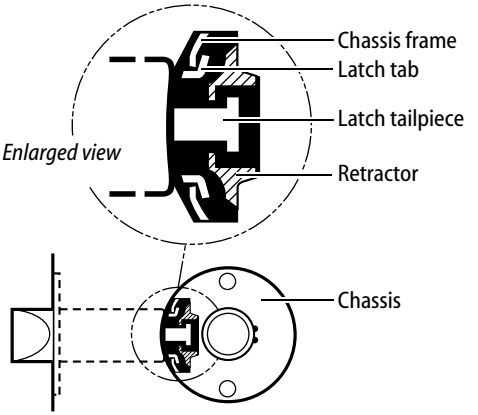


Figure 6 Installing the chassis

6 Install inside rose and knob

Note: *For lead lined locksets, slide the lead shield (not shown) over the sleeve and into the 2 1/8″ hole.*

1 Slide the rose over the sleeve, then thread the rose ring onto the threaded hub and tighten snugly with the spanner wrench.

For non-keyed inside knobs:

2 Align the knob keeper hole with the knob keeper in the sleeve as shown in Figure 7. Firmly push the knob on until seated.

For keyed inside knobs:

2 Align either of the knob driver slots with the knob driver in the sleeve as shown in Figure 8. Firmly push the knob on until seated.

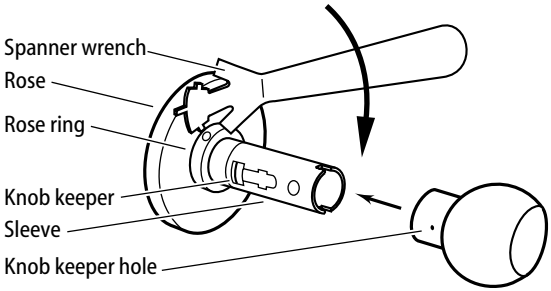


Figure 7 Installing the inside knob and rose

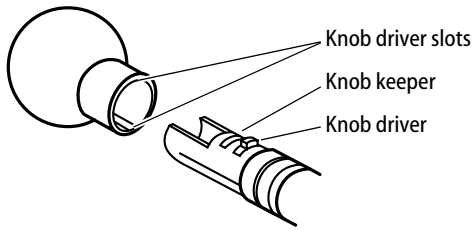


Figure 8 Installing the inside keyed knob

Completing the installation

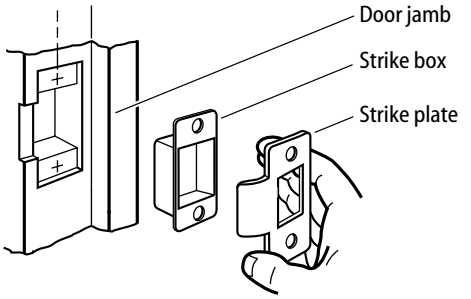


Figure 9 Installing the strike

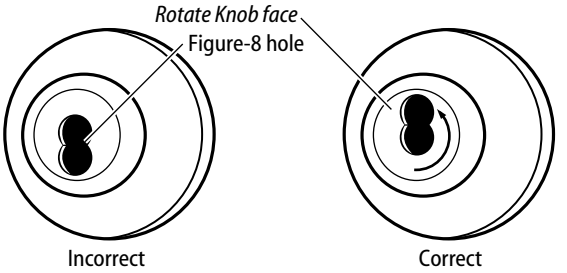


Figure 10 Turning the knob face to correct the handing of the lock

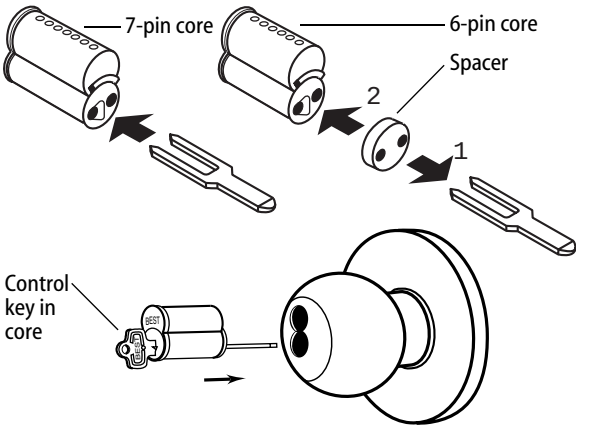


Figure 11 Installing the figure-8 core

7 Install strike plate

1 Mortise the door jamb to fit the strike box and strike plate. Make sure to align the strike plate and latchbolt centers.

Caution: **The deadlocking plunger of the latchbolt must not enter the strike plate. The plunger deadlocks the latchbolt and prevents forcing the latch when the door is closed. Excessive gap may reduce security and/or cause malfunction of the latchbolt assembly. A maximum door gap of 1/8″ is recommended.**

2 Insert the strike box and secure the strike plate with the screws provided.

8 Check handing

Note: *When Best 8K locksets are properly installed, the figure-8 hole must be in the upper half of the knob. If it is not, change the hand of the lock.*

To change the hand of the lock:

- Rotate the knob face 180 degrees so that the figure-8 is in the upper half of the knob.

9 Install core

For 6-pin core users only: Slide the spacer — supplied with your 6-pin cores — over the 7-pin throw member (see Figure 11, top right).

Note: *If you have ordered 6-pin cores, you will get one spacer per core with your order. Spacers are not supplied with locks.*

1 Insert the throw member (or throw member and spacer) into the back of the core (see Figure 11, top).

2 Put the control key into the core and turn the key 15 degrees clockwise.

3 Put the core and throw member into the knob with the control key (see Figure 11, bottom).

4 Turn the key 15 degrees counterclockwise and remove the key.

Caution: **Since the control key is a high-security key, make sure to keep it protected.**