

Skill Level: INTERMEDIATE Give these projects a try if you're a confident DIYer with a good working knowledge of a variety of tools. They can take a day or more to complete. If you can build a birdhouse or install a ceiling fan, your skill level is probably appropriate.

✓ MATERIALS

- Lockset
- Screwdrivers (Slotted/Standard and Cross-head/Phillips)
- Hammer
- Small Piece of Wood
- Safety Glasses

If the door is not pre-bored for a deadbolt:

- Lockset Template
 - Paper Template—included with most deadbolts
 - Door Lock Installation Kit—optional
- Tape Measure
- Ruler or Square
- Pencil
- Drill and Drill Bits
- 2-1/8" and 1" Hole Saws
- Chisel
- Dust Mask
- Masking Tape

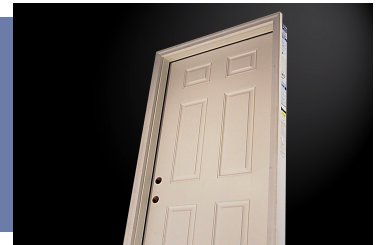
For household safety, make sure your home's locksets are efficient and secure. The lockset is the knob or lever on each door in your home. If your locksets are old, inefficient or broken, replace or update them. Replacing a keyed, keypad, or keyless lockset is a simple project. Also consider simultaneously installing a deadbolt following the appropriate video and instructions available at Lowe.com/Videos.

PREPARATION

01 Identify the type of door in which you will install the lockset: wood, fiberglass, or steel.

- Make sure you buy the correct tools for your type of door.
- **TIP:** Measure the door's thickness. It should be between 1-3/8" and 1-3/4". The new lockset must fit doors of this dimension.

02 Determine whether you will be replacing an existing lockset, installing a new unit in a pre-drilled door, or drilling the door for installation. The following instructions cover all of these situations.



03 Select a lockset and, if needed, an installation kit.

- Locksets are available with keyed entry or in combination with a doorknob or lever that uses the same key as the lockset. Some interior doors have keyless locksets with push-button locking devices or no locks. Newer designs include a keypad that allows you to program and use a personal entry code, popular for entry doors. Some locksets are sold as combination kits, which include the handle and deadbolt in one package. Doors without pre-bored holes for locksets require a drilling template, typically included with the unit or a separate installation kit with template.

04 Read the manufacturer's instructions.

- The manufacturer's instructions should include a diagram of the components of your lockset.

05 If you're installing in a door that does not have a hole bored for the lockset, skip the removal instructions and start with Boring the Door for a New Lockset.

IMPORTANT

Before you begin this project, read the lockset manufacturer's instructions and follow all local building codes. If you're not comfortable installing a lockset in a door, discuss the job with a Lowe's associate or call a professional for help.

REMOVING AN EXISTING LOCKSET

- 01 Remove all screws that attach the existing lockset to the door.
- 02 Remove the knob or lever assembly.
- 03 Remove the latch.
- 04 Inspect the holes in the door for debris and clean as needed. Be sure that the new lockset components will fit in the existing holes.



BORING THE DOOR FOR A NEW LOCKSET

- 01 Determine the exterior location of the new lockset assembly.
 - Typically, it is installed 38" above the finished floor, but choose a height that is comfortable for you.
- 02 Draw a horizontal line on the interior side of the door where the lockset will be positioned.
 - Mark the jamb, too. The doorjamb is the side piece of the doorframe.
- 03 The following steps might be easier if you remove the door from the hinges and work on sawhorses.
- 04 Select the appropriate backset, which is the distance from the edge of the door to the center of the hole you will be drilling.
 - Typically, it is either 2-3/8" or 2-3/4" as recommended by the lockset manufacturer.
 - Try to match the placement of your deadbolt.
- 05 Place the template at the horizontal line, following the template instructions.
- 06 Attach the template to the door.
 1. If you're using the door lock installation kit, drill two 1/8" pilot holes for the screws on the door edge.
 2. Secure the jig to the door edge with the faceplate screws.
 - If you're using a paper template, it may help to tape it in place, then mark the screw holes on the edge of the door.
 - **WARNING:** Wear safety glasses when using a drill with bits or a hole saw.



BORING THE DOOR FOR A NEW LOCKSET (cont.)

07 Use a 2-1/8" hole saw to drill the hole for the deadbolt lock assembly.

- **TIP:** To prevent the door from splintering, drill halfway through one side, then drill the other half from the other side of the door. It may help to drill a pilot hole if your template does not extend to both the interior and exterior sides of the door.

08 Use a 1" hole saw to drill the lockset shaft hole from the door edge to the center of the 2-1/8" hole.

09 Remove the template from the door.

10 Choose a faceplate.

- If you're simply replacing the lockset, you can save time by matching the old faceplate.
- Most locksets come with both rounded and square-corner faceplates. You should be able to pry off the one you don't want, then snap on the new one.
- If neither of the new faceplates match the old faceplate, you can sometimes save installation time by using the new lockset with the old faceplate.



11 You'll have to create a mortise, which is a slot in the edge of the door or jamb, for the faceplate. Slide the lockset shaft into the 1" drilled hole and trace around the edge of the faceplate.

12 Chisel the area to the proper depth so the lockset shaft and faceplate are flush with the door edge.

- Alternatively, your installation kit may have included a jig for marking the lockset faceplate and a router bit to cut into the door.
 1. Attach the jig to the door.
 2. Use the router bit with a drill to cut along the grooves of the jig.
 3. Any excess material in the center can be removed using a hammer and chisel. Try to stay at the depth set by the router bit.



13 Next, prepare the jamb. At the mark on the jamb, drill a 1" hole in the jamb, 5/8" deep.

- **TIP:** Mark the 5/8" hole depth on the drill bit with a masking tape.

14 Place the strike component against the hole, trace around it and mark the screw holes.

15 Drill 1/8" pilot holes for the strike screws.

16 Use a chisel to create a mortise (slot) for the strike.

INSTALLING A NEW LOCKSET

01 Making sure the beveled part of the latch is facing the jamb, slide the latch in the hole.

- You may have to tap the faceplate flush with a hammer and a small piece of wood.

02 Attach the faceplate with screws.

03 Install the outside knob or lever assembly, making sure that the top is pointed up.

- Just thread the spindle through the hole in the latch.
- For levers, check the manufacturer's instructions to ensure proper position.
- If you are installing a keypad assembly, install it now, following manufacturer's instructions.
 1. Make sure the top is pointing upward.
 2. Feed the cable through the latch. They also require a battery for operation.

04 If you have a mounting plate, install it on the inside of the door.

- Make sure the top is pointing upward.
- For keypads, connect the cable and battery. The cable must be tucked into the plate.

05 Install the inside knob or lever assembly by aligning it on the spindle and pressing into place.



06 Insert screws in the latch plate and the knob or lever assembly and tighten.

07 Position the strike on the doorjamb and attach it with screws.

- Some locksets include a strike reinforcer for added security.

08 Close the door from inside and use the knob or lever to verify that the latch fully extends.

- Make adjustments as needed for smooth operation.
- If you are installing a keypad assembly, follow additional manufacturer's instructions for programming the keyboard.

A lockset adds to your home's security, as well as a little personality to your door. Be sure to check out the other installation projects with instruction sheets at [Lowes.com/Videos](https://www.lowes.com/Videos).

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