

# 1 Center punch the drill points

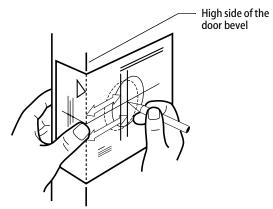


Figure 1 Positioning and marking with the template

- 1 Place the template at the desired height, on the high side of the door bevel.
- 2 Tape the template to the door.
- 3 Center punch the drill points.

# 2 Bore two holes

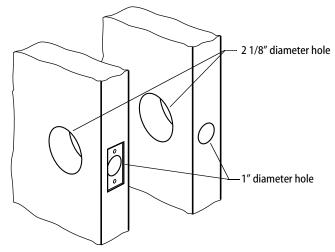


Figure 2 Holes for standard and drive-in deadbolts

- 1 Bore a 2 1/8" diameter hole. To avoid splintering a wood door, bore the hole from both sides of the door.
- 2 Drill a 1" diameter hole from the edge of the door that intersects the 2 1/8" hole.

#### For deadbolts with faceplates

■ Using the deadbolt faceplate as a guide, mortise the edge of the door to recess the faceplate.

## 3 Install strike plate

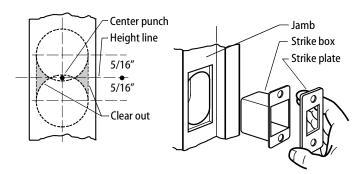


Figure 3 Installing the strike

- 1 Center punch the jamb directly opposite the bolt hole in the door. See Figure 3.
- 2 Drill two 1" diameter holes, located 5/16" above and below the center punch to a depth of 1 1/8".

**Note:** For S1 strike plates only, drill two additional 1" diameter holes located 15/16" above and below the center punch. Clear out the material between the holes.

3 Using the strike as a guide, mortise the jamb and install the strike box and strike plate as shown in Figure 3.

## 4 Install deadbolt assembly

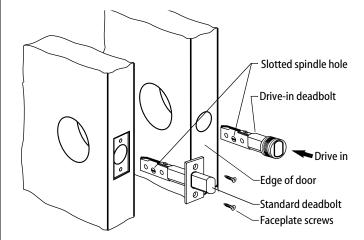


Figure 4 Installing the standard and drive-in deadbolts

#### For standard deadbolts

- 1 Insert the standard deadbolt with the slotted spindle hole at the bottom of the assembly as shown in Figure 4.
- 2 Secure the standard deadbolt to the door with the faceplate screws.

#### For drive-in deadbolts

- 1 Make sure the drive-in deadbolt is in the retracted position.
- 2 Insert the deadbolt into the door with the slotted hole at the bottom of the assembly. See Figure 4.

3 Using a hammer and wooden block, lightly drive the deadbolt into the hole until the face of the deadbolt is flush with the edge of the door.



# Install cylinder or cylin-

#### For 1 3/8" thick doors only

■ Slip the spacer ring behind the outside cylinder and trim assembly as shown in Figure 5.

**Note:** *Use two spacer rings for M function* deadbolts, one behind the outside cylinder and the other behind the inside cylinder.

#### For single-keyed cylinder deadbolts except 'S' (classroom) functions

- 1 Extend the bolt with a screwdriver.
- 2 Install the cylinder and trim assembly with the spindle in the **vertical** position as shown in Figure 5.

#### For non-keyed KL functions

- 1 Extend the bolt with a screwdriver.
- 2 Slip the spacer ring behind the outside rose.

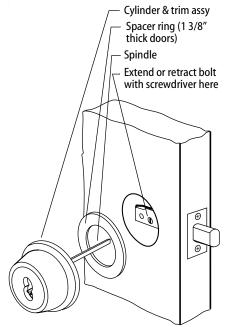


Figure 5 Installing the cylinder and trim assembly

#### For 'S' (classroom) function deadbolts

- Retract the deadbolt with a screwdriver.
- 2 Install the cylinder and trim assembly with the spindle in the **horizontal** position.

#### For double-keyed cylinder deadbolts ('M' function)

1 Extend the bolt with a screwdriver.

2 Install each cylinder with its ring and rose as shown in Figure 6.

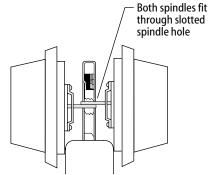


Figure 6 Side view of a double-keyed deadbolt

### Attach inside trim

#### For standard mounting screws

Secure the cylinder to the door with the clamp plate and mounting screws as shown in Figure 7.

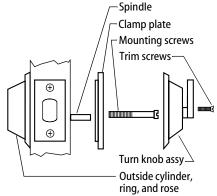


Figure 7 Standard trim mounting

- 2 Break the spindle at the appropriate notch to suit the installation.
- 3 Slide the turn knob assembly over the spindle and secure it with the trim screws supplied.

#### For concealed mounting screws

1 With the inside rose and turn knob unit in place, put the two mounting screws through the outside cylinder as shown in Figure 8.

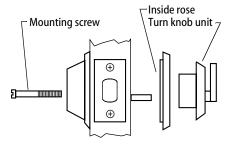


Figure 8 Concealed trim mounting

- 2 Break the spindle at the appropriate notch to suit the installation.
- Screw the mounting screws into the back of the turn knob unit.

### Install core or cores

#### For double-keyed deadbolts or deadbolts with concealed screws

■ To cover the mounting screw holes, put the cylinder face into the ring. See Figure 9.

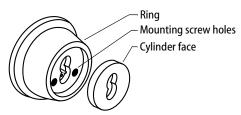


Figure 9 Installing the cylinder face for doublekeyed deadbolts and deadbolts with concealed screws

#### For all deadbolt locks

1 Put the control key into the core and turn the key 15 degrees clockwise as shown in Figure 10.

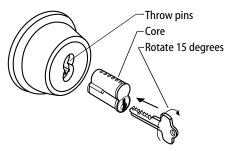


Figure 10 Installing the core on standard deadbolts

- 2 Adjust the throw pins if needed, then put the core into the cylinder with the control
- 3 Turn the key 15 degrees counterclockwise and remove the key.

**Caution:** Locks that secure both sides of the door are controlled by building codes and the Life Safety Code®. In an emergency exit situation, failure to quickly unlock the door from the inside could be hazardous or even fatal.

#### **Patents**

Products are covered by one or more of the following patents:

#### **U.S. Patents**

D290085, 4444034, 4424693, 4386510, 4294093, 4301667, 4655063, 4843852

Other patents pending.