

These instructions are to be used when you need to provide electrical power to a lockset on a door. Since the lockset to be powered may require different levels of electrical power, refer to the specifications for that particular lockset. These instructions may be used for the following types of Best locksets:

- V Series 8KV, 9KV, and 30HV locksets with external power option
- 8K and 9K DEU and DEL functions
- 30H EWEU, EWEL, WWEU, WWEL, YEU, and YEL functions
- 8K, 9K, and 34H–35H functions with IDH (Integrated Door Hardware) or RQE option (Request-to-Exit).

Note: These instructions only show how to transfer electrical power from frame to door. The instructions do not provide any detail on making electrical connections to the power supply or lockset.

1 Extend latch bore and mortise cavity

For cylindrical locks:

- With a 1" diameter drill bit extending through the latch hole, drill on the opposite side of the 2 1/8" bored hole to a minimum depth of 1" as shown in Figure 1.

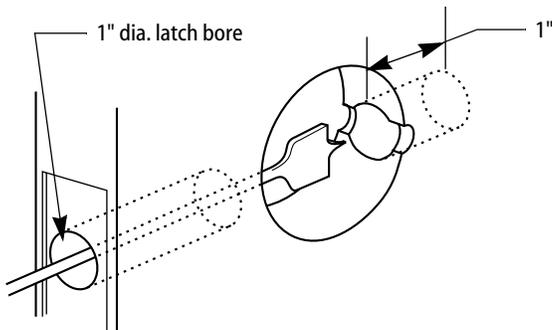


Figure 1—Extending the latch bore to provide for wire connections

For mortise locks:

- With a 1" dia. drill bit extending into the mortise cavity, drill out an additional 1" as shown in Figure 2.

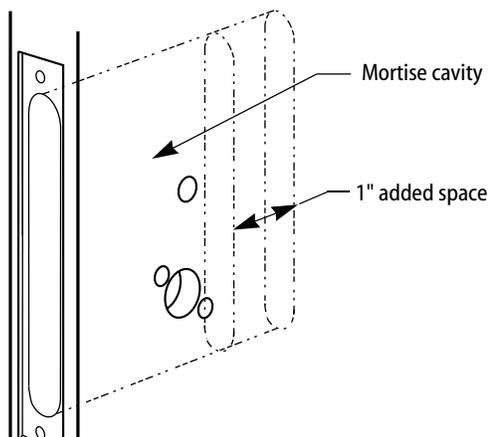


Figure 2—Extending the mortise cavity for wire connections

2 Drill channel through door

Caution: Check with your local fire marshal before drilling a fire-rated door. Drilling through a fire-rated door may void the fire label.

Caution: Be careful to drill straight through the door, making sure the drill does not break through the face of the door.

- Using a three to four foot drill bit, drill a 3/8" diameter channel, through the edge of the door, to the center of the nearest hinge preparation. Drill from the cylindrical latch or the top of the mortise cavity as shown in Figure 3 and Figure 4.

Note: See door templates H03, H04, H09, and H14 for proper door preparation.

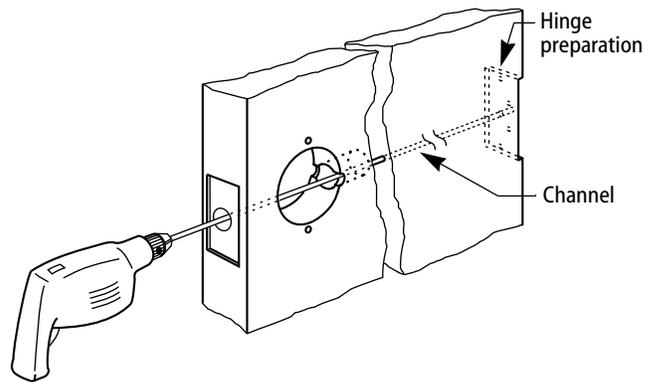


Figure 3—Drilling the channel into a 8K/9K door prep.

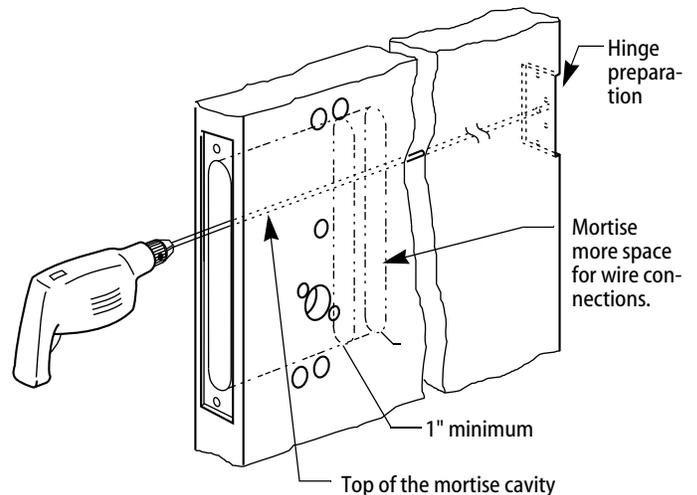


Figure 4—Drilling the channel into a 30H door prep.

3 Install wire transfer hinge or door transfer loop

There are two standard ways to extend power supply wires from the frame to the door:

- Using a **wire transfer hinge**
- Using a **door transfer loop**

Use one of the following methods to transfer the wires from frame to door.

To install a wire transfer hinge (not supplied):

Note: Since the wire transfer hinge wires are normally very small, it may be necessary—if extra wires are available—to bundle two or three wires together to make a larger conductor. Make sure to bundle and splice the same color wires together on each side of the hinge. Check the wire transfer hinge schematic and use through-wires only.

- 1 Remove the hinge nearest to the lock.
- 2 Drill a wire access hole through the frame side of the hinge preparation. Drill holes (or pockets) for splice connectors in the frame and door. Refer to the hinge manufacturer's specifications for hole location. De-burr the holes to prevent damage to the hinge wire leads.

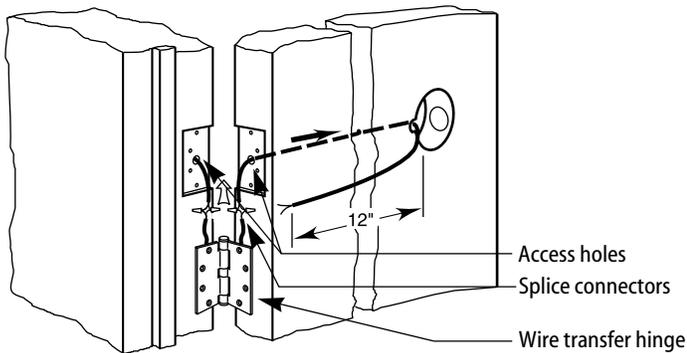


Figure 5—Wiring a wire transfer hinge in a 8K/9K door prep.

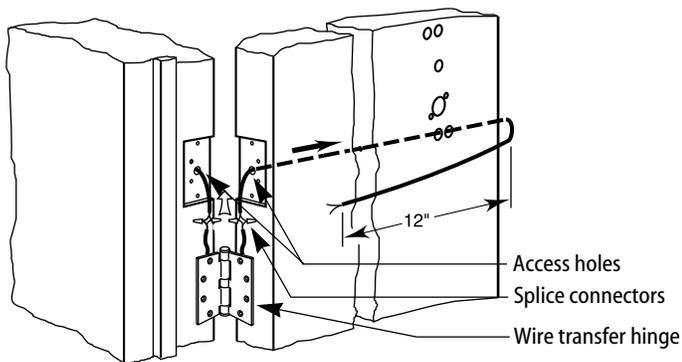


Figure 6—Wiring a wired hinge in a 30H door prep.

- 3 Pull the wire down the wall and through the access hole in the frame.
- 4 Splice the power supply wires to the wires on the frame side of the hinge. Splice wires to the door side of the hinge.
- 5 Continue the wire run from the door side of the hinge through the door to the mortise cavity. Leave 12" of excess wire for proper lock connections.

- 6 Insert the wires and splice connectors into the door and frame access holes, being careful not to cut or pinch the wires. Secure the wire transfer hinge.

To install a Best 8WDTL door transfer loop:

- 1 Drill a 3/8" diameter hole from the inside face of the door to intersect the 3/8" diameter channel running through the door as shown in Figure 7.

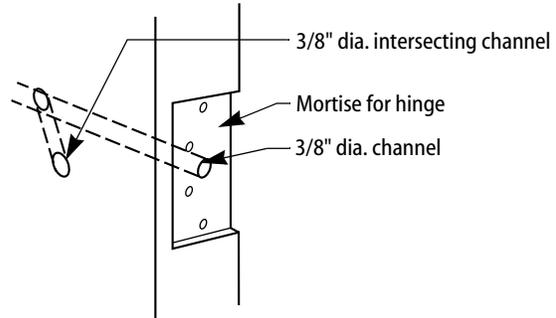


Figure 7—Intersecting channel for door transfer loop

- 2 Pull power supply wires down the wall and through the door transfer loop as shown in Figure 8.

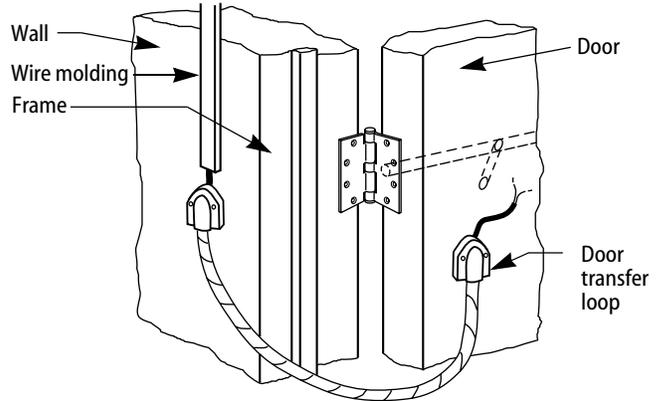


Figure 8—Pulling wire through the door transfer loop

- 3 Pull wires from the door side of the door transfer loop through the door and out through the chassis hole. Leave 12" of excess wire for proper lock connections.
- 4 Mount the door transfer loop to the door and frame as shown in Figure 9.

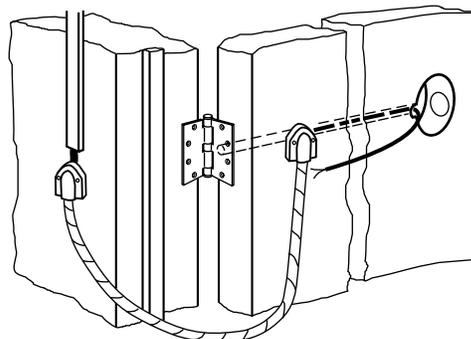


Figure 9—Mounting the door transfer loop to the door and frame