

Installation Instructions:

C100 door wiring instructions for electrically-operated locksets

1 Technical specifications

1.1 Caution

- 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.

1.2 Tools recommended

Table 1

#2 and #3 Phillips screwdriver	1" (25 mm) hole saw or drill bit
Tape measure	Drill
Hammer	Drill bit: 5/16" (8 mm) drill bit
1" (25 mm) wood chisel	3-4' long 3/8" (9 mm) drill bit
2-1/8" (54 mm) hole saw	

1.3 Overview

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 locksets:

- C100 DEU and DEL functions with or without RQE option (Request-to-exit)

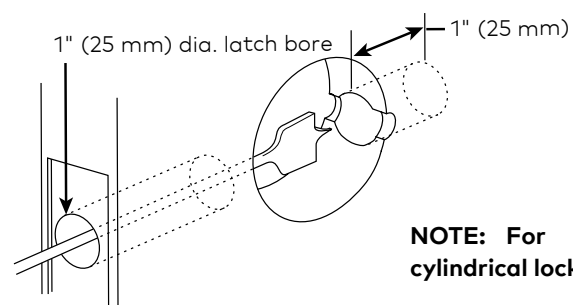
NOTE: These instructions only show how to transfer electrical power from the frame to the door. The instructions do not provide any details on making electrical connections to the power supply or lockset. Please reference document T92541 for further instructions.

<https://dhwsupport.dormakaba.com>

2 Installation instructions

2.1 Extend latch bore.

Fig.1



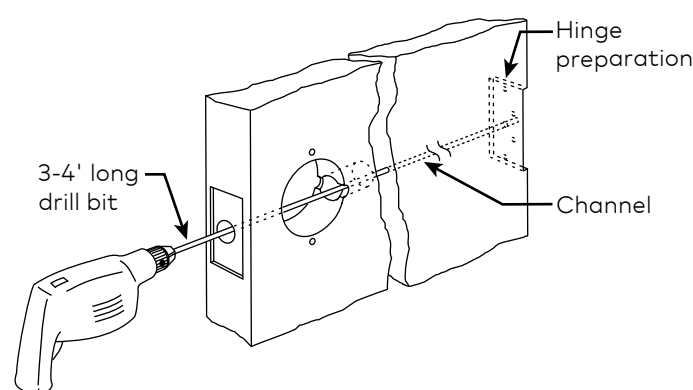
2.1.1 With a 1" (25 mm) diameter drill bit extending through the latch hole, drill on the opposite side of the 2-1/8" (54 mm) bored hole to a minimum depth of 1" (25 mm).

2.2 Drill channel through door.

Fig.2

- 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.

2.2.1 Using a 3-4' long drill bit, drill a 3/8" (9 mm) diameter channel, through the edge of the door, to the center of the nearest hinge preparation. Drill from the cylindrical latch cavity.



3 Instructions

3.1 Install wire transfer hinge or door transfer loop.

Fig.3a–Fig.3d

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

- **Method 1: Using a wire transfer hinge**
- **Method 2: Using a door transfer loop**

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

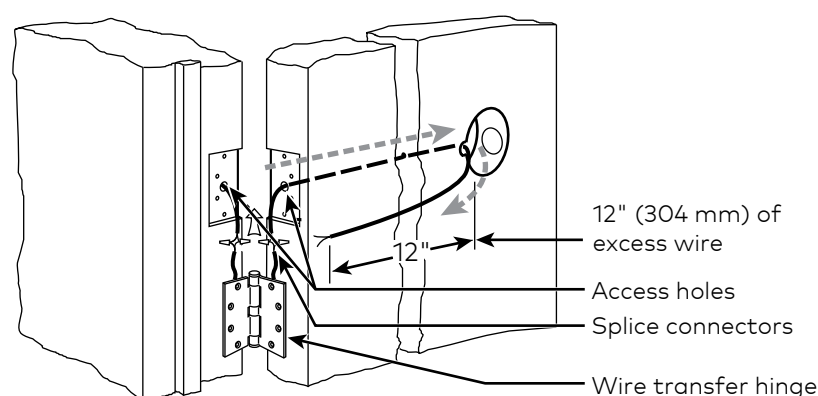
Method 1: To install a wire transfer hinge (not supplied)

- 3.1.1 Remove the hinge nearest to the lock.
- 3.1.2 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 the hole location. De-burr the holes to prevent damage to the hinge wire leads.
- 3.1.3 Pull the wire down the wall and through the access hole in the frame.
- 3.1.4 Splice the power supply wires to the wires on the frame side of the hinge. Splice wires to the door side of the hinge.
- 3.1.5 Continue the wire run from the door side of the hinge through the door to the cavity. Leave 12" (304 mm) of excess wire for proper lock connections.
- 3.1.6 Insert the wires and the splice connectors into the door and the frame access holes, being careful not to cut or pinch the wires. Secure the wire transfer hinge.

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.

Fig.3a

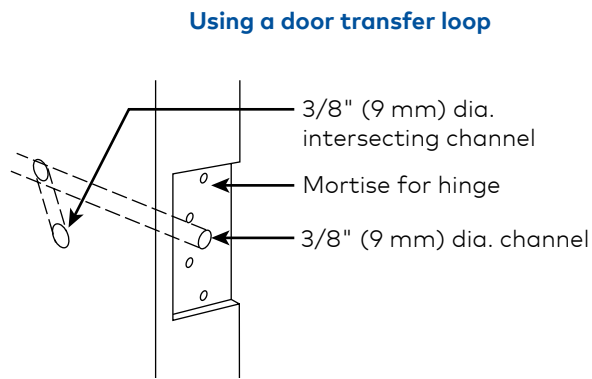
Using a wire transfer hinge



3.1 Install wire transfer hinge or door transfer loop.

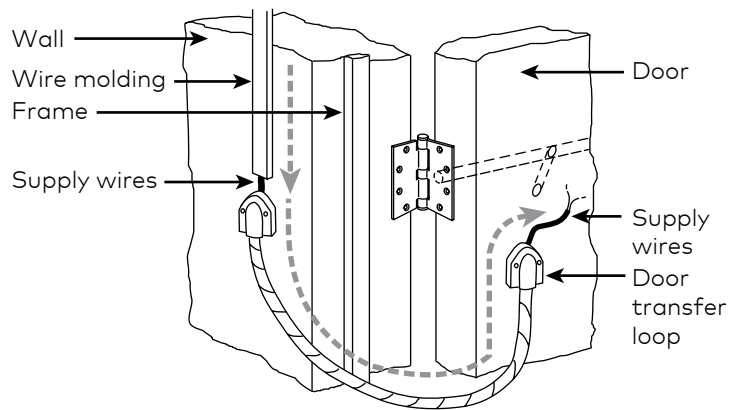
Method 2: To install a 8WDTL door transfer loop

Fig.3b



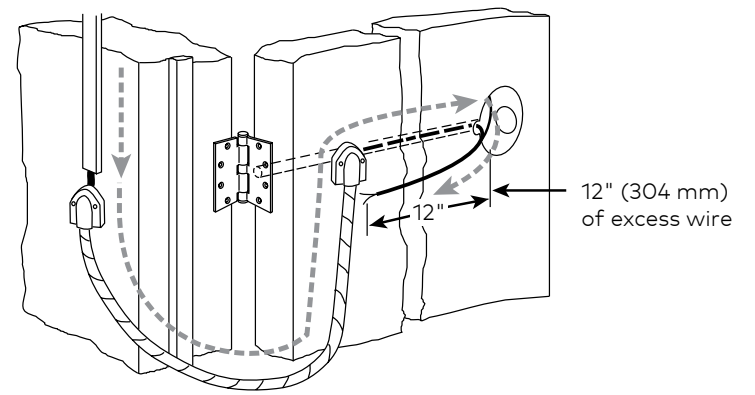
3.1.1 Drill a 3/8" (9 mm) diameter hole from the inside face of the door to intersect the 3/8" (9 mm) diameter channel running through the door.

Fig.3c



3.1.2 Pull power supply wires down the wall and through the door transfer loop.

Fig.3d



3.1.3 Pull wires from the door side of the door transfer loop through the door and out through the chassis hole. Leave 12" (304 mm) of excess wire for proper lock connections.

3.1.4 Mount the door transfer loop to the door and frame.



For online instructions visit:
<https://dhwsupport.dormakaba.com/hc/en-us>
 For assistance or warranty information:
 Call 1-800-392-5209 or visit
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