

PC9/P9 CD-ROM Replacement

Introduction

These instructions explain how to replace a CD-ROM drive in the PC9 Industrial PC or the P9 PowerStation. They include steps for disassembling the unit, removing a previously installed drive, installing a new drive, and reassembling the unit.



Warning For safety reasons, the unit should be opened only by qualified service personnel.

Warning Be sure to observe electrostatic discharge (ESD) precautions while working inside the unit.

To complete this procedure, you will need the following items:

- CD-ROM Replacement Kit for PC9/P9 (CDR-9000)
- Phillips-head screwdriver

Disassembling the Unit

To disassemble the unit, follow these steps:

1. Turn off the unit.
2. Disconnect the unit from the power source.
3. Disconnect all cables attached to the unit.
4. Remove the two screws securing the backshell to the faceplate assembly, as shown in Figure 1 on page 2.

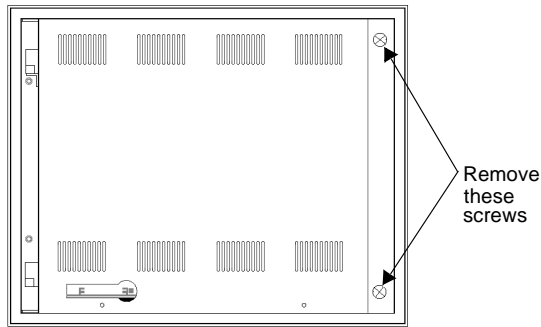


Figure 1: Opening the Backshell

5. Swing the backshell away from the faceplate.
6. If you have a PC9, disconnect the two cables connecting the faceplate assembly and backshell, as shown in Figure 2. Then go to step 8.

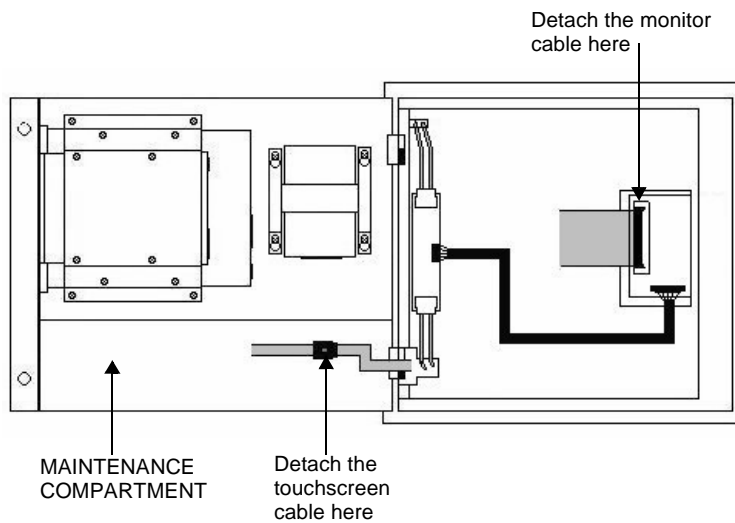


Figure 2: Disconnecting PC9 Cables

- a. Detach the monitor (ribbon) cable from its connection at the center of the monitor frame (push back the locking clamps from either side of the connector).
- b. If your system has a touchscreen, detach the touchscreen cable from its extender in the maintenance compartment.

7. If you have a P9, detach the three cables connecting the faceplate assembly and backshell, as shown in Figure 3.

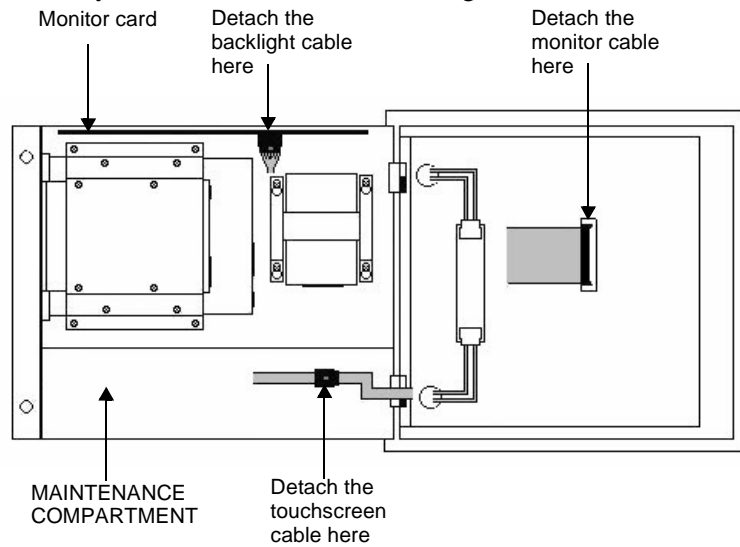


Figure 3: Disconnecting P9 Cables

- a. Detach the monitor (ribbon) cable from its connection at the center of the monitor frame (push back the locking clamps from either side of the connector).
 - b. If your system has a touchscreen, detach the touchscreen cable from its extender in the maintenance compartment.
 - c. Detach the backlight cable from its connection on the monitor card (press down on the small tab on the lower half of the connector, and pull the cable out).
8. Remove the safety bracket below the upper hinge of the backshell by removing the screw that holds the bracket in place. This bracket is shown in Figure 4 on page 4.

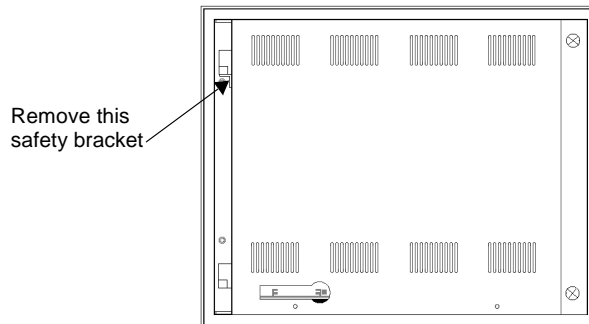


Figure 4: Removing the Safety Bracket

Warning Make sure that both the faceplate assembly and backshell are supported when you remove the safety bracket and when you open the backshell.

9. Lift the backshell off its hinges, and place it on a static dissipative mat, in a location free from dirt and moisture and protected against static discharge. You may leave the faceplate mounted in the enclosure.

Warning When lifting the backshell, grasp it from the outside. Be careful **not** to touch the monitor card, located inside the top of the maintenance compartment. The monitor card is shown in Figure 3 on page 3.

Removing a CD-ROM Drive

To remove a previously installed CD-ROM drive, follow these steps:

1. Locate the CD-ROM drive in the upper left side of the maintenance compartment, behind the floppy drive, as shown in Figure 5 on page 5.
2. Disconnect the power and data (ribbon) cables attached to the CD-ROM drive.

Note Note where these cables are attached to the CD-ROM drive so that you can re-attach them to the new drive later.

3. Remove the four retaining screws holding the CD-ROM drive in place.
4. Slide the CD-ROM drive out of the unit to the left.

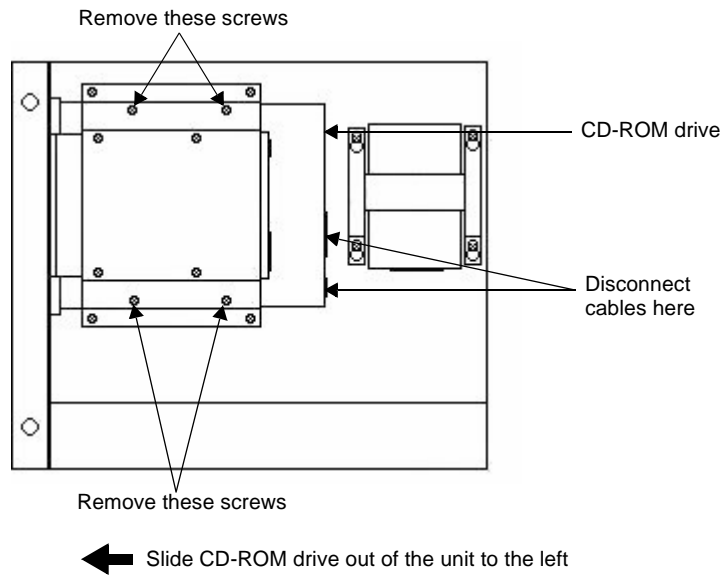


Figure 5: Removing a CD-ROM Drive

Installing a CD-ROM Drive

To install a new CD-ROM drive, follow these steps:

1. Slide the new CD-ROM drive into the unit from the outside (left to right).
2. Fasten the drive in place by replacing the four retaining screws that you removed in step 3 on page 4.
3. Re-attach to the CD-ROM drive the power and data cables that you disconnected in step 2 of *Removing a CD-ROM Drive* on page 4.

Reassembling the Unit

To reassemble the unit, follow these steps:

1. Replace the backshell on its hinges.

Warning When lifting the backshell, grasp it from the outside. If you have a P9, be careful **not** to touch the monitor card, located inside the top of the maintenance compartment. The monitor card is shown in Figure 3 on page 3.

2. Re-attach the backlight cable, touchscreen cable (if necessary), and monitor cable (if you have a P9) to their connections. (Press the monitor cable connector into its socket until the locking clamps on either side of the socket snap into place).
3. Close the backshell against the faceplate assembly.
4. Replace the safety bracket that you removed in step 8 on page 3, and fasten it in place with its retaining screw.
5. Fasten the backshell to the unit by replacing the two screws that you removed in step 4 on page 1.
6. Reconnect power and other cables to the unit.
7. Reconnect the unit to the power source.

Your CD-ROM drive replacement is complete. You may now restart the unit.