

# PC9/P9 Floppy Drive Replacement

## Introduction

These instructions explain how to replace the floppy disk drive in the PC9 Industrial PC or the P9 PowerStation. They include steps for disassembling the unit, removing the previously installed floppy drive, installing a new floppy 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:**

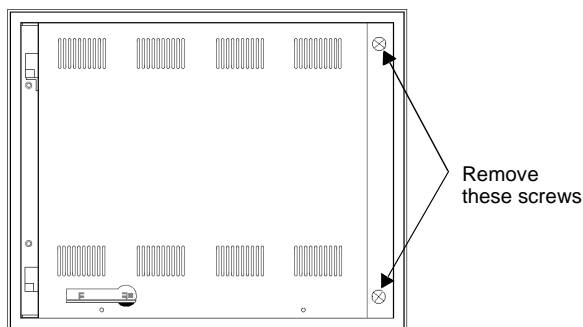
- Floppy Drive Replacement Kit for PC9/P9 (FLP-9000)
- Phillips-head screwdriver

## Disassembling the Unit

**To disassemble the unit, follow these steps:**

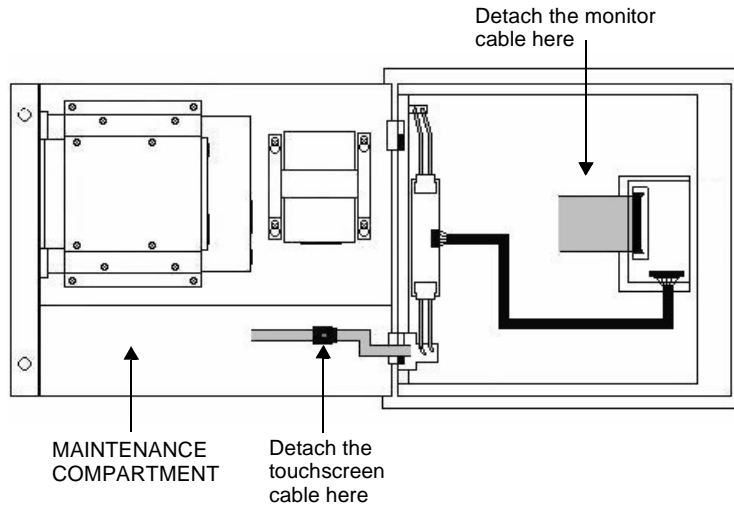
1. Turn off the unit.
2. Disconnect the unit from the power source.
3. Disconnect all cables attached to the unit.
4. Remove the two screws securing the backshell to the faceplate assembly, as shown in Figure 1.

**Figure 1: Opening the Backshell**



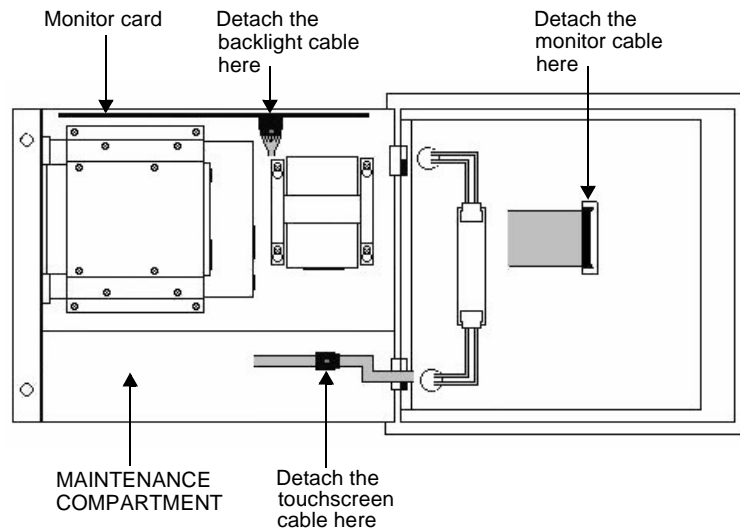
5. Swing the backshell away from the faceplate.
6. If you have a PC9, detach the two cables connecting the faceplate assembly and backshell, as shown in Figure 2. Then go to step 8.

**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 monitor).
  - 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 on page 3.

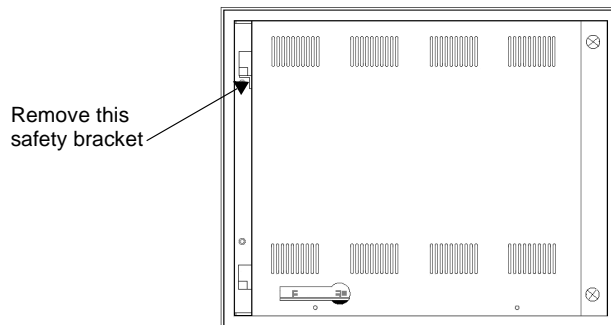
**Figure 3: Disconnecting P9 Cables**



- 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.

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

**Figure 4: Removing the Safety Bracket**



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.

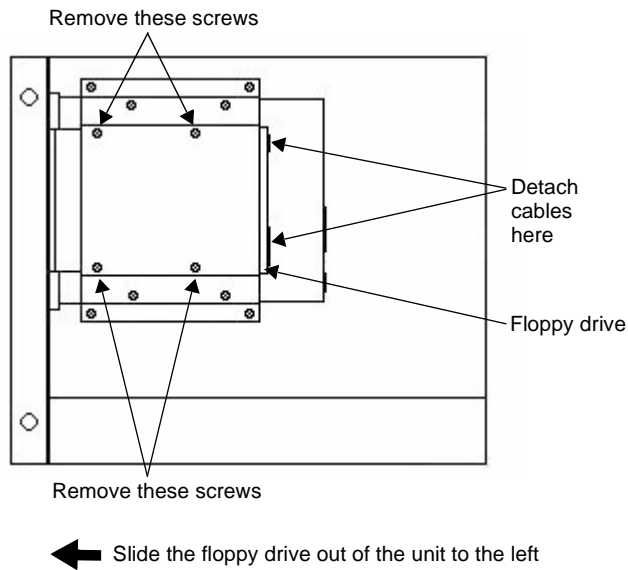
**Warning** When lifting the backshell, grasp it from the outside. If you have a P9, be careful **not** to touch the monitor card, located inside the top of the maintenance compartment. The monitor card is shown in Figure 3 on page 3.

## Removing a Floppy Drive

**To remove a previously installed floppy drive, follow these steps:**

1. Locate the floppy drive in the upper left side of the maintenance compartment, as shown in Figure 5 on page 5.
2. Disconnect the communication (ribbon) cable and the power cable from the back of the floppy drive.
3. Remove the four retaining screws holding the floppy drive in place.
4. Slide the floppy drive out of the unit to the left.

**Figure 5: Removing a Floppy Drive**



## Installing a New Floppy Drive

**To install a new floppy drive, follow these steps:**

1. Slide the new floppy drive into the unit from the outside (left to right).
2. Fasten the floppy drive in place by replacing the four retaining screws that you removed in step 3 on page 4.
3. Re-attach the two cables to the back of the floppy drive.

## 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.

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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. Reinstall the unit in its enclosure if necessary.
7. Reconnect power and other cables to the unit.
8. Reconnect the unit to the power source.

Your floppy drive replacement is complete. You may now restart the unit.