

AlphaStation 600 333 MHz Upgrade Information Sheet

Introduction

Congratulation on your purchase of the AlphaStation 600-series CPU upgrade kit. The AlphaStation 600 CPU upgrade kit should be installed by a qualified Digital Service provider. Please contact your Digital Service representative to arrange installation of this upgrade.

The AlphaStation 600 333 MHz upgrade consists of the following:

- Removing the present system board and cache modules and replacing them with the 333 MHz system board and cache modules.
- Rerouting the two operator control panel (OCP) cables and repositioning the ferrite bead.
- Removing the power supply front cover and replacing it with a new power supply front cover.
- Installing four pieces (two long and two short) of electromagnetic interference (EMI) gasket material on the inside edges of the system board I/O opening.
- Installing a new FCC label.

Refer to the *AlphaStation 600 Series User Information* manual (EK-AS800-UI), the online *Digital AlphaStation 600 Series Service Information* file (EK-AS800-SV), and the following procedure to perform the upgrade.

Tools Required

The 333 MHz upgrade requires the use of a #1 Phillips screwdriver.

Upgrade Procedure

Use Figure 1, Figure 2, Figure 3, and the following procedure to perform the 333 MHz upgrade:

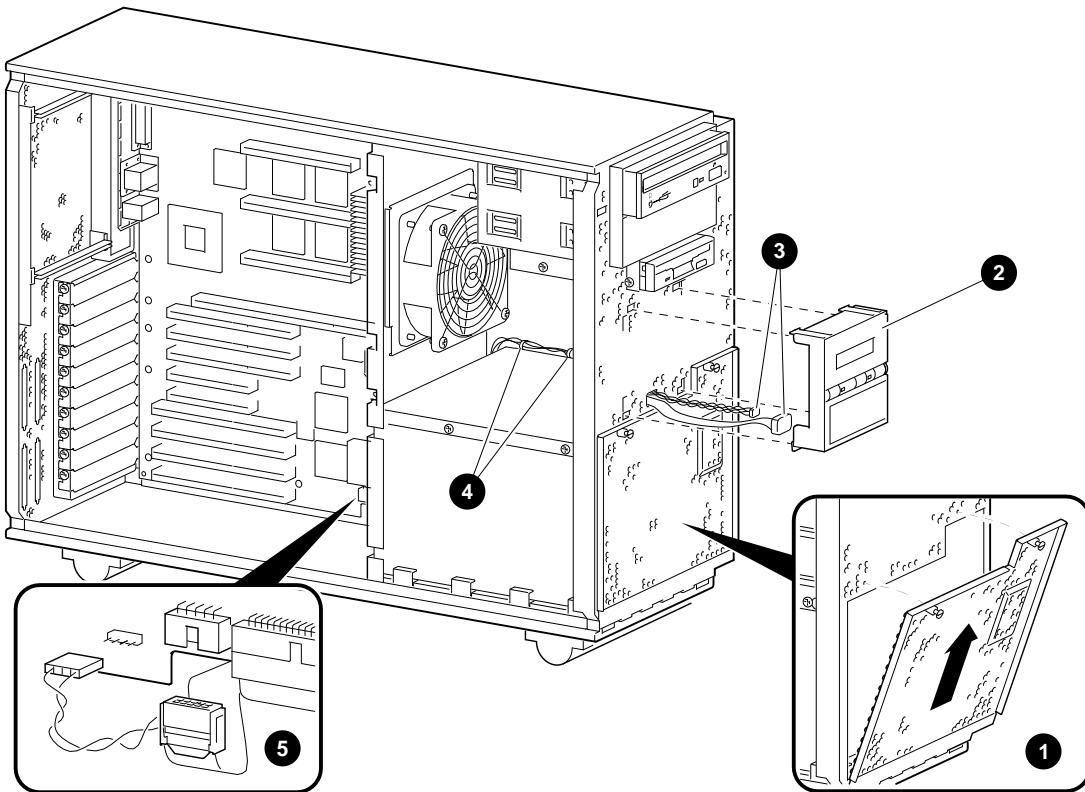
1. Perform an orderly shutdown of the system and peripheral devices, and unplug the power cord from the wall outlet.
2. Remove the front bezel by unsnapping it from the front of the system unit.
3. Remove the two screws that secure the power supply front cover to the system unit. Tilt the cover out, then lift up until the tabs along the bottom edge of the cover come out of the slots at the bottom of the system unit (see Figure 1 ❶).
4. Refer to the *AlphaStation 600 Series User Information* manual and remove the left side panel.

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5. Refer to the *AlphaStation 600 Series User Information* manual and remove the drive assembly.
6. Refer to the online *Digital AlphaStation 600 Series Service Information* file and remove the system board and cache modules.
7. Unsnap the OCP from the front of the system unit (see Figure 1 ❷).
8. Disconnect the ribbon cable connector and the 4-pin twisted-pair cable connector from the OCP (see Figure 1 ❸) and feed the cables and connectors through the opening in the front of the system unit into the drive assembly area.
9. In the drive assembly area, disconnect the 2-pin safety interlock cable connector.
10. In the drive assembly area, unsnap and open the ferrite bead and unwrap the ribbon and twisted-pair OCP cables from around it.
11. Reach through the drive assembly area to the right side of the system unit and remove the ribbon and twisted-pair OCP cables from the two cable clips (see Figure 1 ❹). One twisted-pair cable should remain in the cable clips.
12. While guiding the system board connector ends of the ribbon and twisted-pair OCP cables through the slot in the bottom right system board area (see Figure 1 ❺), pull the ribbon and twisted-pair OCP cables out through the drive assembly area.

Figure 1: Removing the OCP Cables

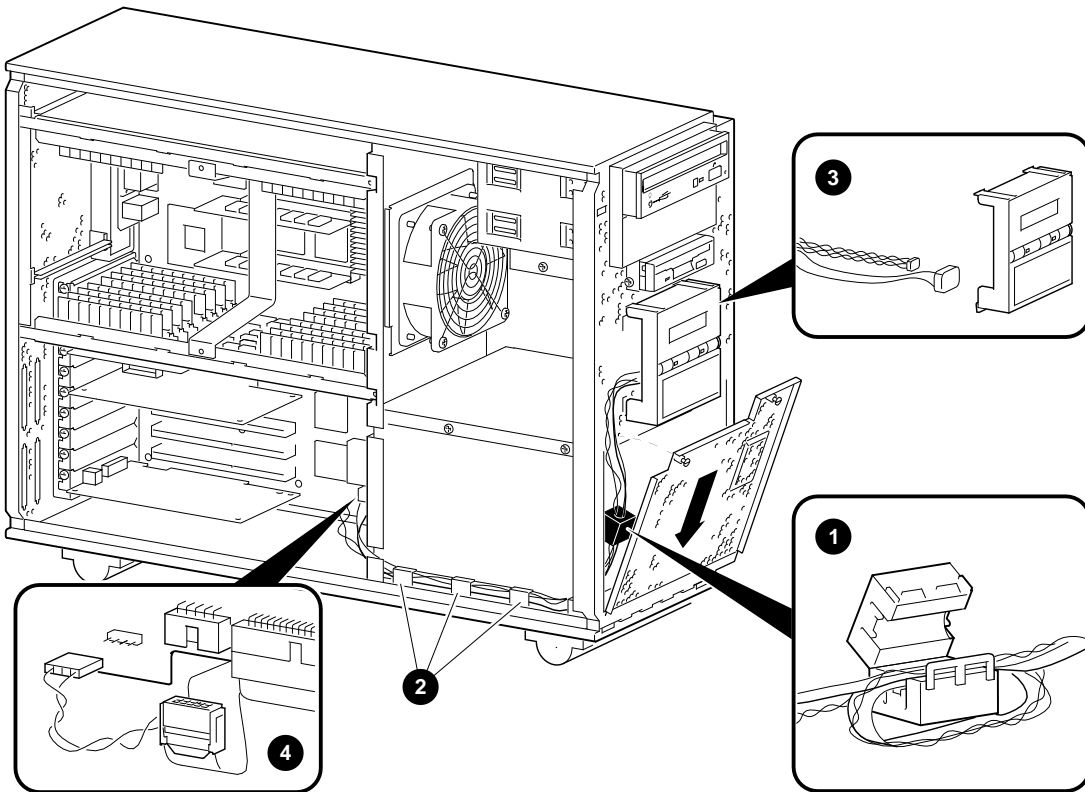


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13. Place the OCP end of the ribbon and twisted-pair OCP cables on the open ferrite bead so that the OCP ribbon cable connector and the 4-pin twisted-pair cable connector are 16.51 cm (6.5 in.) from the edge of the ferrite bead.

14. Wrap the other ends of the cables one complete turn around the ferrite bead and pull them snug (see Figure 2 ❶).
15. Snap the ferrite bead closed on the cables.
16. Route the system board connector ends of the ribbon and twisted-pair OCP cables along the bottom left of the power supply between the power supply and the left side panel (see Figure 2).
17. Install the new power supply front cover. Ensure that the ribbon and twisted-pair OCP cables fit through the notched cutout in the upper left part of the cover, and that the ferrite bead fits *behind* the protruding portion of the cover that is designed for it (see Figure 2).
18. Pull the excess ribbon and twisted-pair OCP cables into the system board area and dress the cables under the flat metal fingers along the bottom left of the power supply (see Figure 2 ❷).
19. Feed the 2-pin safety interlock cable connector through the opening in the front of the system unit into the drive assembly area and reconnect it.
20. Reconnect the ribbon cable connector and the 4-pin twisted-pair cable connector to the OCP (see Figure 2 ❸).
21. With the ribbon and twisted-pair OCP cables extending out the left side of the OCP, snap the OCP onto the front of the system unit (see Figure 2).

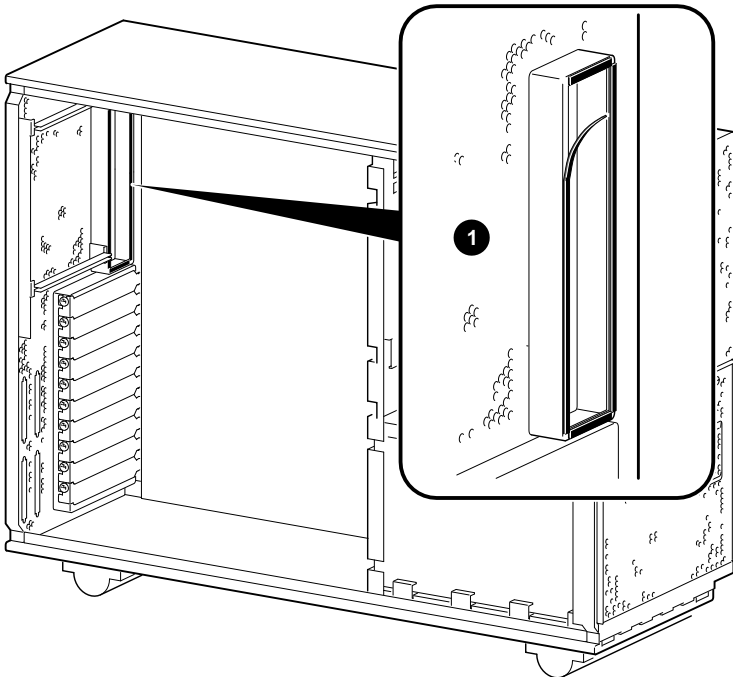
Figure 2: Rerouting the OCP Cables



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22. Reinstall the front bezel on the front of the system unit.
23. Install the four pieces (two long and two short) of EMI gasket material around the system board I/O opening at the rear of the system unit by removing the paper backing from each piece and sticking them on the inside edges of the opening (see Figure 3 ❶).

Figure 3: Installing the EMI Gaskets



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24. Refer to the *AlphaStation 600 Series User Information* manual and reinstall the drive assembly.
25. Refer to the online *Digital AlphaStation 600 Series Service Information* file and reinstall the new 333 MHz system board and cache modules. Ensure that the OCP ribbon and twisted-pair cables are properly reconnected to the new system board (see Figure 2 ❹).
26. Refer to the *AlphaStation 600 Series User Information* manual and reinstall the left side panel.
27. Install the new FCC label over the old FCC label on the rear of the system unit.