

SPARCstation 5 Upgrade Guide



Sun Microsystems Computer Corporation
2550 Garcia Avenue
Mountain View, CA 94043
U.S.A.

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2550 Garcia Avenue, Mountain View, California 94043-1100 U.S.A.

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SPARCstation 5 Upgrade Guide

This document contains procedures for upgrading a SPARCclassic™ or SPARCstation™ SLC, ELC, IPC, IPX, 1, 1+, 2, or LX workstation to a SPARCstation 5 workstation. For important safety and electromagnetic compatibility information, read the *SPARCstation 5 Installation Guide* that comes with this kit.

When you upgrade to a SPARCstation 5 system, you must return your old system unit and keyboard to Sun Microsystems. For SPARCstation SLC and ELC systems, “system unit” refers to the entire monitor/CPU assembly. See “Return Material Procedure” on page 7 for additional details.

Note - Since you are upgrading to a new CPU architecture, your system’s Ethernet address and host identification (hostid) will change, and applications that are licensed to your system may change as well. Be sure to inform your system administrator of this fact before you begin the upgrade. He or she will need to update certain network configuration files before your system can rejoin the network.

The six sections of this document cover the main steps involved in the upgrade procedure:

- Unpacking the shipping cartons
- Halting your system
- Removing SBus cards and extra memory
- Installing your upgraded system
- Return material procedure

Be sure to read each procedure in its entirety before attempting to perform the upgrade. You should also have on hand the SPARCstation installation guide that came with your original system. You will need to refer to it to perform some of the procedures.

Unpacking the Shipping Cartons

Illustrations depicting how to unpack your new SPARCstation 5 system are printed on the inside flaps of the shipping cartons—these pictures are self-explanatory. However, there are a few additional steps you should take:

1. Inspect the shipping cartons before opening them.

If there is evidence of damage to a carton, contact your sales representative and arrange for an agent of the carrier to be present when you remove the equipment.

2. Remove and save the *Customer Information Sheet*.

This sheet is in the plastic envelope on the side of the system unit carton. Retain this sheet for your records. If you are connecting your system to a network, your system administrator will need this sheet during the installation procedure.

3. Save the cartons and the packing material.

You will need them if you ever want to ship your system anywhere. In addition, you may need them to return your old system unit if its original shipping materials are missing.

Halting Your System



Caution – You must halt the system in an orderly manner. When the operating system or any other standalone program is up and running, do not press Stop(L1)-a to halt the system. Abruptly aborting program execution may cause damage to data files.

Halt your system using the following procedure:

1. Save all your work.

Consult your software documentation for instructions on ending a work session and saving your files. If you do not save your work, you could lose it when you switch off the power.

2. Perform a complete system dump before starting the upgrade process.

See your operating system documentation if you need instructions on how to do this.

3. Return to the operating system environment.

If you are in a windowing environment, exit from it and wait for the system prompt to appear. See the documentation supplied with your windowing system.

4. Halt the operating system.

See the documentation supplied with your operating system for instructions on how to halt it.

◆ For Solaris[®] 2.x (SunOS[™] 5.x) systems, type:

```
% su
Password: superuser password
# /usr/sbin/shutdown -y -g60 -i0
```

◆ For Solaris 1.x (SunOS 4.x) systems, type:

```
% su
Password: superuser password
# /usr/etc/shutdown -h +1
```

The operating system warns other users of your system of the impending shutdown, and then halts itself after a one-minute delay. If you wish to provide a longer delay, see the man page for `shutdown(1)`.

The system responds with system halt messages, followed by either the `>` prompt or the `ok` prompt. When either prompt appears, you can safely turn off the power in the proper sequence.

5. Turn off the power in sequence to:

- a. External drive units (if any)
- b. SPARCstation system unit
- c. Monitor

Removing SBus Cards and Extra Memory

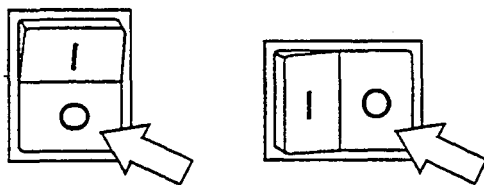
If your system unit contains SBus cards or extra memory modules, you should remove them before returning the system unit to Sun Microsystems. You need only return the original memory modules that were factory-installed inside your system unit; do not return any memory module that you purchased as a separate option.

Note - If you are upgrading a SPARCstation IPC system that contains an SBus frame buffer card, or a SPARCstation 1 or 1+ system that contains a color frame buffer card, do not remove the card from your system. You must return both the system unit and frame buffer card to Sun. For dual-headed systems, return only the primary frame buffer card to Sun.

Consult the SPARCstation installation guide that came with your system for detailed instructions on the following procedures.

To remove SBus cards and extra memory from your system unit:

1. **Halt the operating system and turn off power to your system in an orderly manner.**
See "Halting Your System," beginning on page 2.
2. **Detach all cords and cables connected to the system unit.**
3. **Locate an appropriate work area.**
You should find a well-lit area with a secure, uncluttered, flat surface on which to work. It should be near an electrical outlet.
4. **Set the workstation down on the work surface.**
Position the machine so that the *back* of the unit is facing you.
5. **Make sure the power switch is in the *Off* position.**
You may have inadvertently turned on the power switch while transporting the workstation. Make sure that it is still turned off.





Warning - To avoid electric shock, be sure the power is shut off before you plug in the AC cord.

6. Plug in the AC power cord.

Reconnect the AC power cord at both the wall and system ends. This provides an electrical path for safely discharging static electricity.

7. Open the system unit.

See the SPARCstation installation guide that came with your system.



Caution - Your SPARCstation computer system uses delicate electronic components that are extremely sensitive to static electricity. Ordinary amounts of static from your clothes or work environment can damage these components. Be sure to observe the antistatic precautions below when opening the machine or handling parts.

8. Use an antistatic surface.

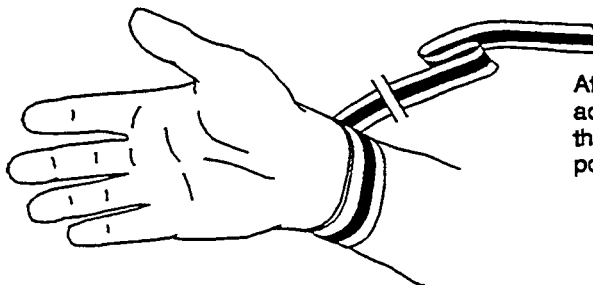
Place an antistatic surface beside the workstation. This will help protect the parts you remove from any static electricity that might build up on the work surface.

9. Find the antistatic wrist strap that is packaged with the upgrade kit.

Attach the copper end to the system's power supply and the other end to your wrist.

A wrist strap, when used properly, keeps static electricity from building up on your hands.

Wrap the wrist strap twice around your wrist (adhesive against your skin).



Attach the end with the adhesive copper strip to the metal casing of the power supply.

10. **Remove any SBus cards and extra memory modules.**

For removal instructions, see the SPARCstation installation guide that came with your system. Do not remove the system's original memory; remove only those memory modules that you purchased separately.

Place any components you remove on the antistatic surface.

11. **Detach the antistatic wrist strap.**

12. **Close the system unit.**

See the SPARCstation installation guide that came with your system.

Installing Your Upgraded System

To install your upgraded SPARCstation 5 system, see the installation instructions in the *SPARCstation 5 Installation Guide*.

If you are upgrading from a SPARCstation SLC or ELC system, your upgrade kit includes a new monitor. Otherwise, connect the monitor from your old system to the new SPARCstation 5 system unit.

Note - If you plan to transfer any SBus cards to the new system, consult the *SPARCstation 5 Product Notes* for a list of SBus cards that are incompatible with the SPARCstation 5 system.

Note - For thick Ethernet installations, you must order the following Attachment Unit Interface (AUI) adapter cable as an option:

- AUI Adapter Cable (X981A)

For additional details, see the *SPARCstation 5 Installation Guide*.



Caution - DSIMMs installed in your new SPARCstation 5 system must have been designed specifically to operate in it. *Do not* transfer DSIMMs from your old system to your new SPARCstation 5 system.

The procedure for powering up your system for the first time depends on the operating system you are using. If your system is connected to a network, the network will require some advance preparation *before* you turn on your system.

Do not power up your system until you have notified your system administrator and have received permission to proceed. If you must act as your own system administrator, see the documentation that accompanies your operating system software.

Return Material Procedure

Once you have completed the upgrade procedure, you must return your old system unit to Sun Microsystems. For SPARCstation SLC and ELC systems, "system unit" refers to the entire monitor/CPU assembly.

Be sure to remove and keep any SBus cards or extra memory modules before returning the system. You need only return the original memory modules that were factory-installed inside your system unit; do not return any memory module that you purchased as a separate option.

Note - If you are upgrading a SPARCstation IPC system that contains an SBus frame buffer card, or a SPARCstation 1 or 1+ system that contains a color frame buffer card, do not remove the card from your system. You must return both the system unit and frame buffer card to Sun Microsystems. For dual-headed systems, return only the primary frame buffer card to Sun Microsystems.

If your old system included a Sun Type-4 keyboard, you must return the keyboard with the system unit.

To return your old equipment to Sun Microsystems:

1. **Disconnect any cables that may still be attached to the system unit.**
2. **Pack the system unit (and keyboard, if necessary) in appropriate packing materials.**
Use the system's original packing materials or the SPARCstation 5 materials, if possible. Be sure the unit is secure and well padded inside its shipping carton.
3. **Follow the instructions in the *Sun Upgrades RMA Letter (P/N 800-5527)* to return the equipment to Sun Microsystems.**

Congratulations—You have completed the upgrade procedure! If you encounter any difficulties with your new workstation, call the Sun Response Center or your authorized service provider.

