

This chapter explains steps to perform before removing a customer replaceable unit (CRU).

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6.1 Powering Off the System

Before you begin any removal or replacement procedure, you must halt the system in an orderly manner. The procedure to use depends on whether your system is working normally or not, as described in the next sections.



Caution – When the operating system or any other standalone program has already booted, do not use the Stop-a keys to halt the system. Using the Stop-a keys to abort program execution can damage data files.

6.1.1 When the System Is Working Normally

To halt your system when it is working normally:

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. 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.

3. 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 an `ok` prompt. When the `ok` prompt appears, you can safely turn off the power in the proper sequence.

4. When the `ok` prompt appears, turn off the power to the system components in this order:

- a. External drive units (if you have any)
- b. System unit
- c. Monitor

6.1.2 When the System Does Not Respond Normally

To halt a system that is hung, or frozen, and unresponsive to commands:

- 1. If your system is on a network, wait a few minutes before proceeding.**
Your system's slow response may be due to network problems or delays. Check with the person in charge of your network. If the response is not due to the network, go to the next step.
- 2. Press Stop-a (or Break).**
If you use a Wyse[®] WY-50[™], VT-100[™], or compatible terminal as the console with your SPARCstation 5 system unit, press Break instead of Stop-a.

Note – If the system does not respond to the mouse and keyboard, pressing Stop-a will not be effective. You may have to turn the power off, wait at least 10 seconds, and turn the power on again. Then try pressing Stop-a once more.

- 3. When the `ok` prompt appears, boot the operating system.**
Enter `boot` at the `ok` prompt.
- 4. When you see the `login` prompt, log in to the system with your user name and password.**
- 5. 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 an `ok` prompt. When the `ok` prompt appears, you can safely turn off the power in the proper sequence.

6. When the `ok` prompt appears, turn off the power to the system components in this order:

- a. External drive units (if you have any)
- b. System unit
- c. Monitor

6.2 Powering On the System



Warning – Before turning on power to your system, be sure to close the system unit. It is not safe to operate your SPARCstation while the system unit is open.



Warning – These devices are equipped with a three-wire grounded power cord. To reduce the risk of electrical shock, always plug the power cord into a properly grounded power outlet.



Caution – Always allow 10 seconds between turning off the power and turning it back on again. This pause prevents possible damage to power supply components in your system unit.

To turn on power to the SPARCstation 5 system:

- 1. If your system uses external drive units, turn on the power to these units first, starting with the unit that is furthest electrically from the system unit.**
- 2. Turn on the power to the monitor.**
- 3. Turn on the power to the system unit.**