

Safety Precautions and Tools Requirements



2.1 Safety Precautions

For your protection, observe the following safety precautions when setting up your equipment:

- Follow all cautions, warnings, and instructions marked on the equipment.
- Never push objects of any kind through openings in the equipment as they may touch dangerous voltage points or short out components that could result in fire or electric shock.
- Refer servicing of equipment to qualified personnel.

To protect both yourself and the equipment, observe the following precautions:

Table 2-1 Safety Precautions

Item	Problem	Precaution
Wrist or foot strap	ESD	Wear a conductive wrist strap or foot strap when handling printed circuit boards.

Table 2-1 Safety Precautions (Continued)

Item	Problem	Precaution
ESD mat	ESD	An approved ESD mat provides protection from static damage when used with a wrist strap or foot strap. The mat also cushions and protects small parts that are attached to printed circuit boards.
Cover panels	System damage and overheating	Re-install all cabinet cover panels after performing any service work on the system.
Card cage slot filler panels	System damage and overheating	Make sure all empty board slots have a filler panel installed.

2.2 Symbols

The following symbols mean:



WARNING

Hazardous voltages are present. To reduce the risk of electrical shock and danger to personal health, follow the instructions.



WARNING

Risk of personal injury. To reduce the risk, follow the instructions.



CAUTION

Risk of equipment damage. To reduce the risk, follow the instructions.



SURFACE

CAUTION: Hot surfaces. Avoid contact. Surfaces are hot and may cause personal injury if touched.













AC

A terminal to which alternating current or voltage may be applied.



ON

The principal and stand-by switches are in the ON position; the system is powered on.

	OFF	The principal switch is in the OFF position.
	STAND-BY	The system is in standby mode and the operating system is halted. The circuit breaker can be turned off.
	DIAGNOSTICS	System is running. If system is rebooted, POST will display extended diagnostic messages.
	CYCLING	System or board is operating normally.
	LOCKED	Board: 1/4-turn access slot is locked. System: running in secure mode and will not respond to commands from the console. The key can be removed.
	UNLOCKED	Board 1/4-turn access slot is unlocked.
	POWER	Board is receiving DC power.
	SERVICE	System has detected a hardware failure.
	PROTECTIVE EARTH	Earth ground.
	CHASSIS	Frame or chassis ground.



FUSE REPLACEMENT MARKING

For continued protection against risk of fire and electric shock, replace **ONLY** with fuse of the same type and rating.

Ensure that the voltage and frequency of the power outlet to be used matches the electrical rating labels on the equipment.

Wear antistatic wrist straps when handling any magnetic storage devices, CPU/Memory boards, or other printed circuit boards.

Use only properly grounded power outlets as described in Section 1.3, "Preparing the Electrical Circuits," in the *Ultra Enterprise 3000 System Installation Guide*, part number 802-6050.



Caution – DO NOT make mechanical or electrical modifications to the cabinet. Sun Microsystems™ is not responsible for regulatory compliance of modified cabinets.



Caution – The chassis AC power cord must remain plugged in to ensure a proper ground.

2.3 Tools Required

This list represents the minimum of tools and test equipment you will need:

- Screwdriver, Phillips #2
- Screwdriver, Phillips #1
- DIP/IC extraction tool
- ESD mat
- Grounding wrist strap
- Needlenose pliers
- Hex driver, 3/32