

10.1 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.
- Ensure that the voltage and frequency rating of the power outlet you use matches the electrical rating label on the equipment and video monitor.
- Use properly grounded power outlets only.
- 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 10-1 Safety Precautions

Item	Problem	Precaution
Springfingers	Personal injury	The springfingers have sharp edges. Use care when handling springfinger-equipped cabinet screens and boards.
	RFI leakage	Keep springfinger-equipped screens and panels in place when the system is running. These assemblies suppress radio frequency interference (RFI) and are required by law in many localities.
	Damaged springfingers	Look for any broken or twisted springfingers and replace any damaged screen or board with a new assembly.

Table 10-1 Safety Precautions (Continued)

Item	Problem	Precaution
AC power cord	Electric shock	Unplug the AC cord from the AC wall socket before working inside the system chassis.
Wrist strap or Foot strap	ESD	Wear a conductive wrist strap or foot strap when handling printed circuit boards.
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	Attach all cabinet cover panels after performing any service work on the system.
Filler panels	System damage and overheating	Install card cage filler panels in all unused card cage slots. Open slots severely reduce the cooling capability of the system.
SBus slot covers	System damage and overheating	Install SBus slot covers in all unused system board SBus slots. Openings on the backs of system boards reduce the cooling capability of the system.

10.2 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 powered on. If system is rebooted, POST will display extended diagnostic messages.
	RUNNING	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.
	COMPONENT 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.

10.3 System Precautions

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

Wear antistatic wrist straps when handling any magnetic storage devices or system boards.

Only use properly grounded power outlets.



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



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



Warning – This equipment contains lethal voltages. Accidental contact can result in serious injury or death.



Caution – Improper handling by unqualified personnel can cause serious damage to this equipment. Unqualified personnel who tamper with this equipment may be held liable for any resulting damage to the equipment.

Persons who remove any of the outer panels to access this equipment must observe all safety precautions and ensure compliance with skill level requirements, certification, and all applicable local and national laws.

All procedures contained in this document must be performed by qualified service-trained maintenance providers.



Caution – Before you begin, carefully read each of the procedures in this manual. If you have not performed similar operations on comparable equipment, *do not attempt* to perform these procedures.

10.4 Tools Required

This list represents the minimum of tools and test equipment required to service the system cabinet:

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

