SunFire X4640 System Overview and Service Information

For more service information see inside Top Cover label or the service manual:
http://docs.sun.com/app/docs/doc/821-0243

此服务信息仅供维修人员参考

Tools Required

- Anti-static wrist strap
- #2 Phillips screwdriver
- Stylus (or Pencil)
- Anti-static mat

Procedure Color Coding

- Hot Service
- Cold Service

Must power down system

⚠ CAUTION
Rack may tip.
Always deploy anti-tilt legs.
Only extend 1 system at a time.

⚠ 小心
机柜可能会倾斜
请展开机柜的防倾斜支架。
每次只能抽出一台系统。

⚠ CAUTION
System is heavy.
(88lb/40 kg)
Use 2 persons to lift or transport.

⚠ 小心
系统较重
(40 kg)
需 2人抬起或搬运

FT Status Indicator

⚠ Fault (Service action required)

Enclosure Status Indicators

Locate LED/Button | Fault (Service action required) | OK (Steady on) Standby (Blink) Transition (Blink) | ON/Standby Button (Front only)

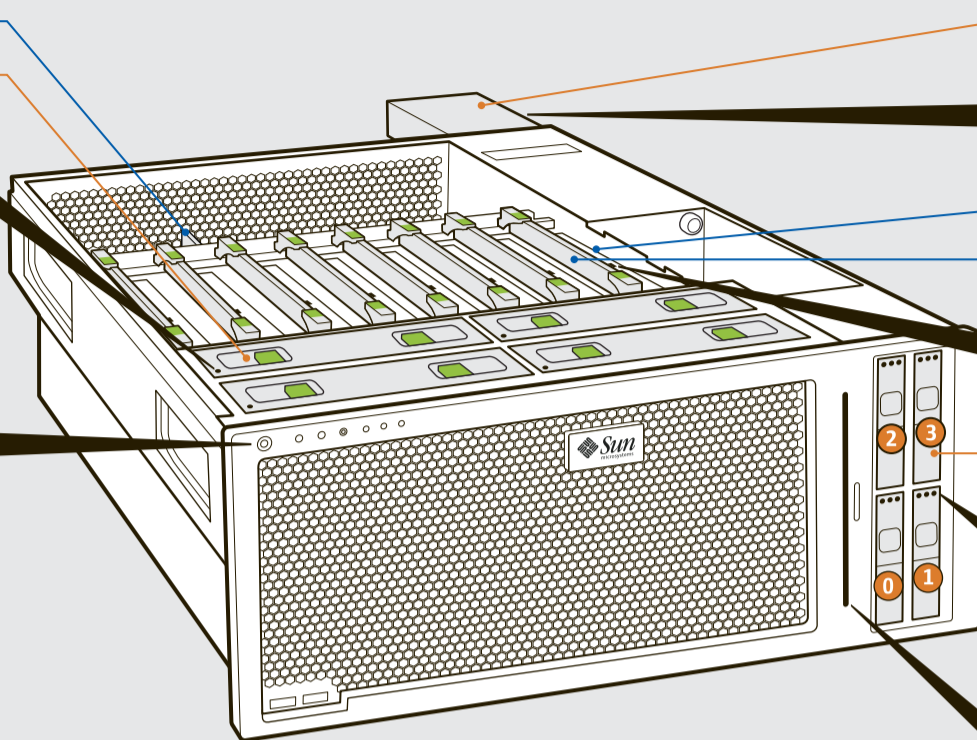### Supplemental Enclosure Status Indicators

TOP FAN Fault (Service action required) | **REAR PS** Fault (Service action required) | Fault (System Over Temperature)

On/Standby Button Use

POWER ON SYSTEM:
Press

SET SYSTEM TO STANDBY:
Graceful shut down: **Press and release.**
Emergency shut down: **Press and hold for >4 seconds.**

③ PCI Cards
④ Fan Trays (FT)

② Power Supplies (PS)

Bi-color PS Status Indicator

⚠ Fault (Service action required)
OK OK

⑥ DDR-2 DIMMs (on CPU Modules)
⑤ SunFire X4640 CPU Modules

CPU Module Status Indicator

⚠ Fault (Service action required)

① Hard Drives (HDD)

HDD Status Indicators

LED NOT Functional
⚠ Fault (Service action required)
OK OK

DVD Media Orientation

Insert DVD with graphics facing left.

---

① HDD Removal

❶ Identify desired HDD.
Press button

❷ Remove HDD.

❸ Use correct drive.

② Power Supply (PS) Removal

❶ Rotate out Cable Management Arm (CMA).

❷ 1. Identify Faulted PS.
2. Disconnect power cable.

❸ 1. Unlatch PS. 2. Remove PS.

③ PCI Card Insertion

❶ NOTE:
Only Low Profile PCI cards can be installed in this system.
1. Set system to standby.
2. Remove Top Cover.

❷ Identify slot.
7 6 5 — Slot — 4 3 2 1 0
7 PCIe x8 (4,1)
6 PCIe x8
5 PCIe x8
4 PCIe x8 (4,1)
3 PCIe x8
2 PCIe x8
1 PCIX (100MHz)
0 PCIX (100MHz)

❸ 1. Open locking lever.
2. Lift out filler.

❹ Insert PCI card.
Note tab

❺ Swing rear locking lever down to lock PCI card.

④ Fan Tray (FT) Removal

❶ Identify faulted Fan Tray.
FT2 FT0 FT3 FT1

❷ Lift Fan Tray.

INFORMATION
System will overheat without Fan Trays installed.
Replace Fan Tray within 60 seconds of removal.

⑤ SunFire X4640 CPU Module and CPU Filler Removal

NOTE:
Configuration information is found on chart inside system.
1. Set system to standby.
2. Remove Top Cover.
3. Identify slot.

❶ Identify Module.
Slots
H G F E D C B A
See chart

❷ Open eject levers.

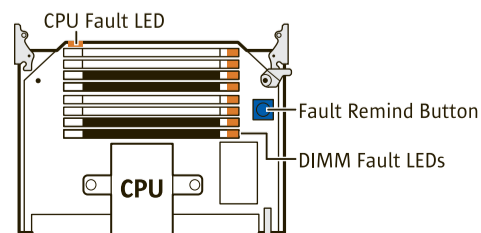❸ Carefully lift module/filler and place on anti-static mat.

⑥ DDR-2 DIMM Configuration, Population, and Replacement

IMPORTANT:
Memory resides on the CPU Modules.
Only use SunFire X4640 CPU Modules.
Use only DDR-2 DIMMs.
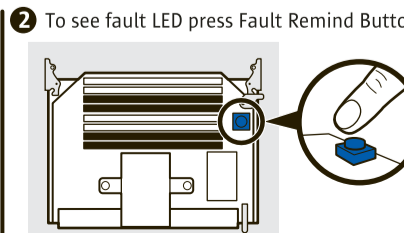Ensure DIMMs are installed in matched pairs with the same Sun PN.

CPU Fault LED
Fault Remind Button
DIMM Fault LEDs
CPU

Paired DIMMs only

1	DIMM 7 / DIMM 6
2	DIMM 5 / DIMM 4
3	DIMM 3 / DIMM 2
4	DIMM 1 / DIMM 0

Installation order

❶ 1. Set system to standby.
2. Remove Top Cover.
3. Remove desired CPU Module and place on anti-static mat.

❷ To see fault LED press Fault Remind Button.

❸ DIMMs must be installed in matched pairs.
Note keying

❹ Press DIMM fully into socket. Be sure lock tabs are engaged.
(Click!)