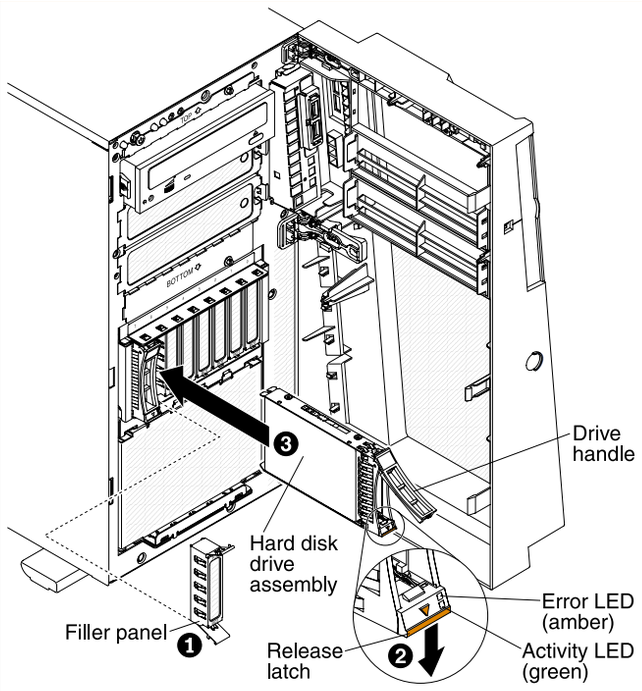
System Service Information

P59Y3446

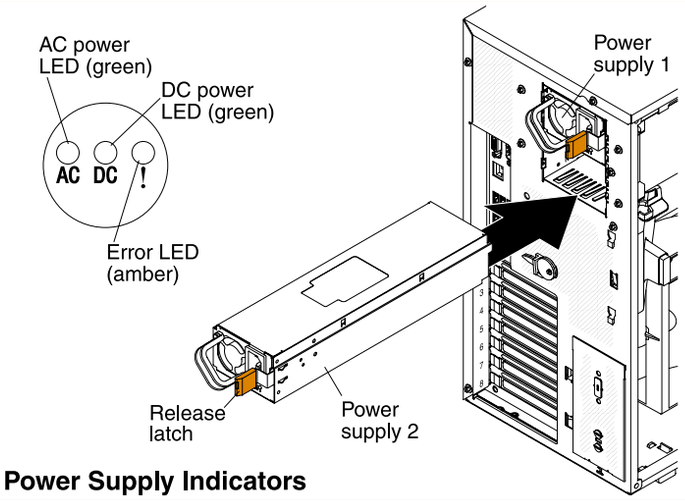
Hot-Swap Hard Disk Drives



Orange/terracotta on a component indicates that the component can be hot-swapped. Hot-swap means that if the system, operating system, and configuration all support hot-swap capability, you can remove or install the component while the system is running.

Blue on a component indicates touch points. Touch points are where you can grip the component to remove or install it from the system, open or close a latch, and so on.

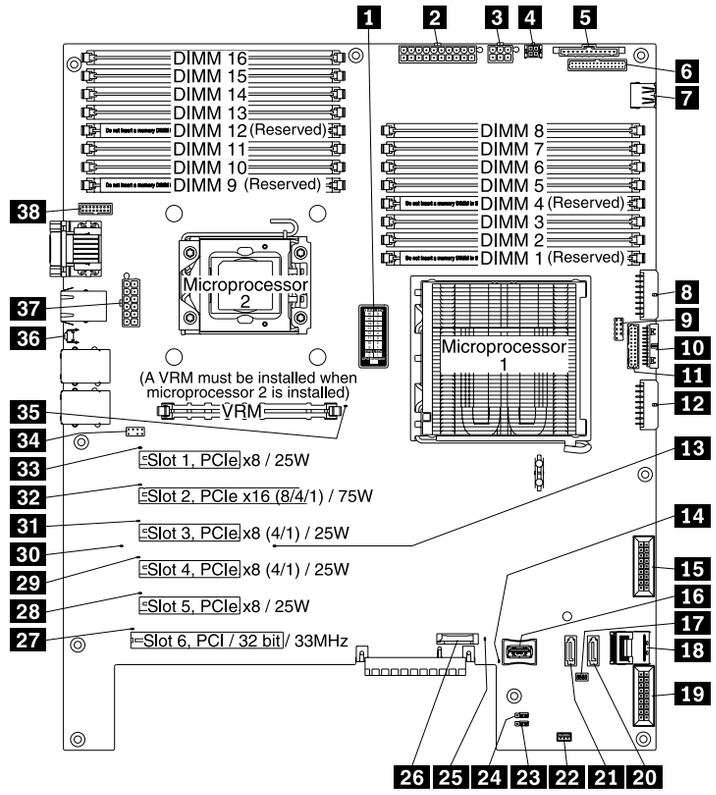
Hot-Swap Power Supplies



Power Supply Indicators

AC	DC	! Error	Description and Action
On	On	Off	The power supply is on and operating correctly.
On	Off	Off	*Action:* 1) Reseat the power supply. 2) If system board error LED is on, replace system board. 3) If system board error LED is not on, replace power supply.
Off	On	Off	The power supply has failed. *Action:* Replace the power supply.
Off/ On	Off/ On	On	The power supply has failed. *Action:* Replace the power supply.
Off	Off	Off	There is an AC power problem. Possible causes: 1) There is no AC power to the power supply. *Actions:* Verify that: • The power cord is properly connected to the server. • The power outlet functions correctly. 2) The power supply has failed. *Action:* Replace the power supply.

System Board



1	DIMM/Microprocessor Error LEDs	20	SATA 0
2	Power 1	21	SATA 1
3	Reserved	22	Wake on LAN
4	Optical Power	23	Clear CMOS Jumper
5	Front Operator Panel	24	UEFI Boot Recovery Jumper
6	Reserved	25	Battery Error LED
7	USB Tape	26	3V Lithium Battery
8	Reserved	27	Slot 6 Error LED, PCI
9	Front USB	28	Slot 5 Error LED, PCIe
10	SAS/SATA Backplane Config	29	Slot 4 Error LED, PCIe
11	Reserved	30	H8 Heartbeat LED
12	SAS/SATA Backplane Power	31	Slot 3 Error LED, PCIe
13	IMM Heartbeat LED	32	Slot 2 Error LED, PCIe
14	System Board Error LED	33	Slot 1 Error LED, PCIe
15	Reserved	34	Virtual Media Key Connector
16	USB Hypervisor Key	35	VRM Error LED
17	Switch Block 6	36	NMI Button
18	SATA Backplane Signal	37	Power 3
19	Fans 1, 2, and 3	38	Power 2

NOTE:
When installing a second microprocessor, be sure to install a VRM.

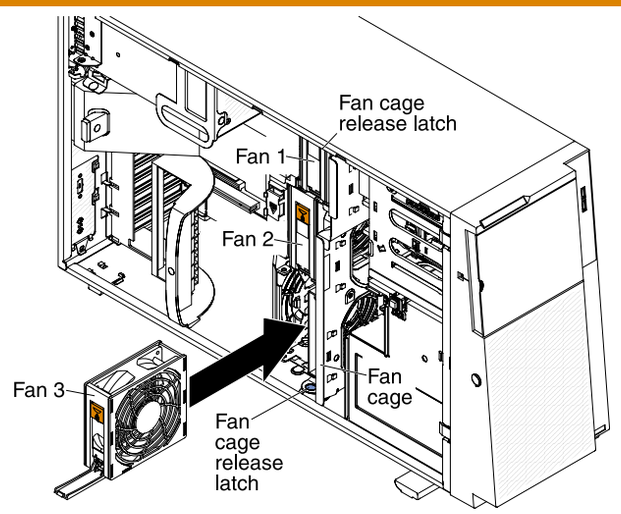
Memory (Non-Mirrored)

Microprocessor #	DIMM Install Order
1	3, 6, 8, 2, 5, 7
2	11, 14, 16, 10, 13, 15

Memory (Mirrored)

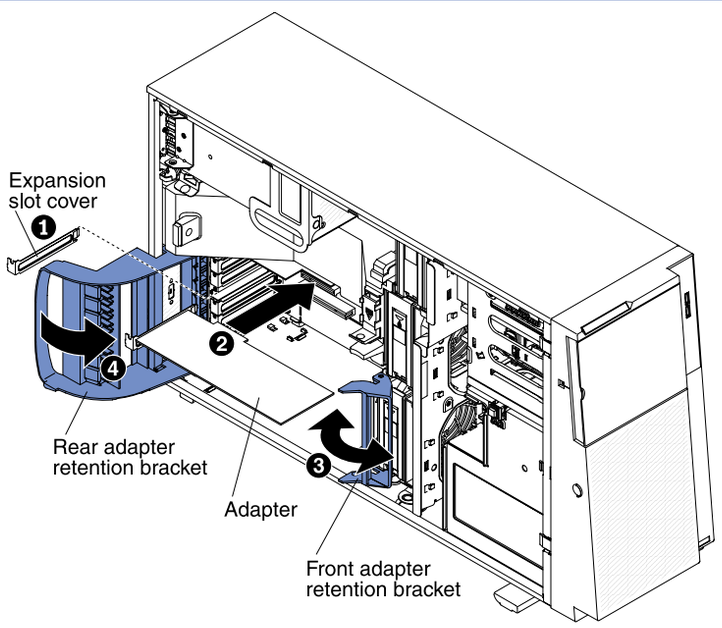
Microprocessor #	DIMM Install Order
1	3&6, 2&5
2	11&14, 10&13

Hot-Swap Fans



NOTE: The fan cage does not have to be removed to install hot-swap fans.

PCI Express/PCI-X Adapters



ATTENTION: **For proper cooling, do not leave cover off for more than 2 minutes at a time while system is running.**

260 mm

Red Outline is for Die Cut ONLY! 336 mm Red Outline is for Die Cut ONLY!

MANUFACTURING NOTES:

1. Graphics shall conform to the Artwork above.
2. Ink colors to match PMS BlackC, PMS 1525C, and PMS 2718C.
3. Refer to label print part number 59Y3446 for manufacturing and material notes.

Must conform to Eng. Spec:	80X2324
Tolerances unless noted: Linear ±	0.3

SI metric

0 mm 25

IBM®

Art Part number: 59Y3449

EC number	Date	ID approval	Eng approval
L79970F	8/18/09	RA	ET

Title: Label, System Service

This document is the property of IBM. Its use is authorized only for responding to a request for quotation or for the performance of work for IBM. All questions must be referred to the IBM purchasing department.