

HP ProLiant ML150 G2 Server Installation Sheet



*Read instructions completely before
beginning installation procedure.*

Configuring the Server

1. Connect all peripherals:

- Keyboard
- Mouse
- Monitor
- UPS

NOTE: Refer to the HP ProLiant ML150 G2 Server Support CD. Use the CD for updated information about the server and as a reference for any additional information not provided in this installation sheet.

2. Determine the server BIOS version:

- a. Power up the server.
- b. Press the **Esc** key at the HP logo screen.
- c. Note the server BIOS version during the POST boot-up.
- d. Verify the server BIOS version against the latest BIOS version listed for this server on the HP website:

<http://www.hp.com>

- e. If you do not have the latest BIOS, update the BIOS now. Refer to the *HP ProLiant ML150 G2 Server Maintenance and Service Guide* available on the HP website:

<http://www.hp.com>

3. Install the desired operating system (OS). HP drivers and utilities can be found on the support CD. For the latest drivers and information on supported operating systems, refer to the HP website:

<ftp://ftp.compaq.com/pub/products/servers/os-support-matrix-310.pdf>

Default Boot Priority

By default, the server searches for boot devices in the following order:

1. Legacy Floppy Drives (flexible diskette drive)
2. USB FDC (external USB floppy diskette drive)
3. IDE 0 (IDE CD-ROM drive or hard disk drive)
4. PCI SCSI (SCSI or SATA hard disk drive)
5. PCILAN (embedded LAN)

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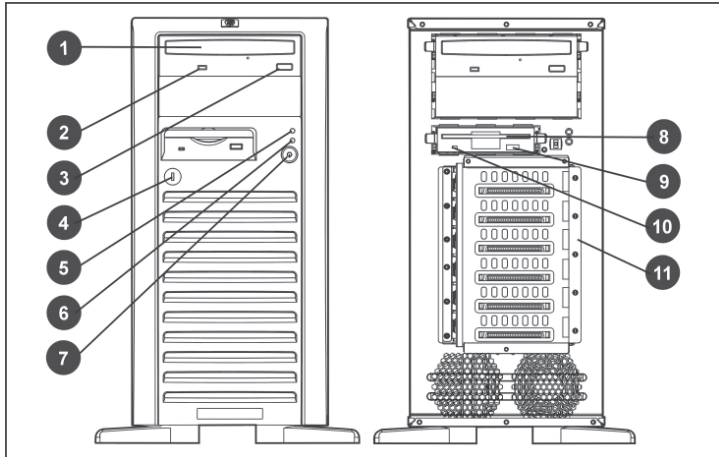
HP ProLiant ML150 G2 Server Installation Sheet

First Edition (June 2004)
Part Number 368149-001

Component Identification

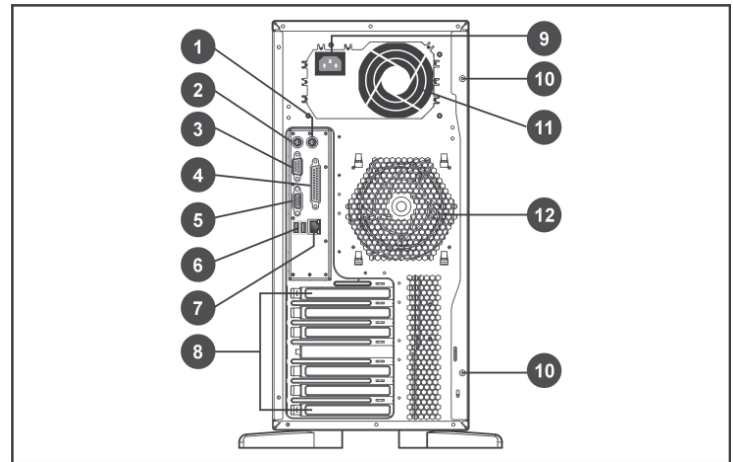
Front Panel Components

Hot-Plug Model



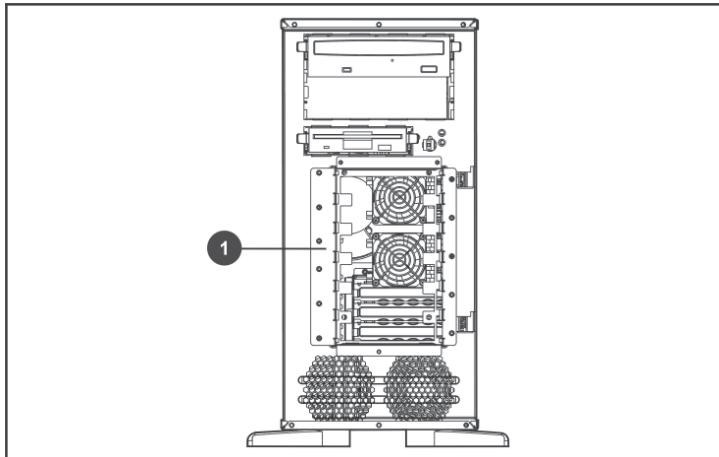
Item	Description
1	CD-ROM drive
2	CD-ROM drive activity indicator
3	CD-ROM drive eject button
4	Bezel lock
5	Drive activity indicator
6	Power indicator
7	Power button
8	Flexible diskette drive (FDD)
9	FDD eject button
10	FDD activity indicator
11	Hot-plug hard disk drive (HDD) cage

Rear Panel Components



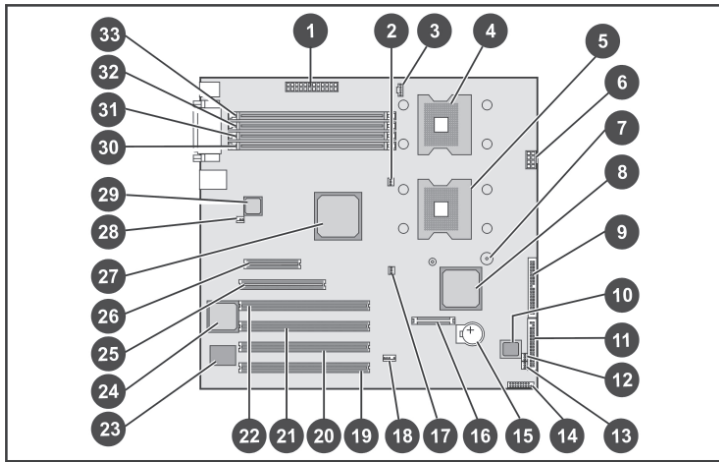
Item	Description
1	PS/2 mouse port (green)
2	PS/2 keyboard port (purple)
3	Serial port (teal)
4	Parallel port (burgundy)
5	Monitor port (blue)
6	USB 2.0 ports (black)
7	10/100/1000 LAN port (RJ-45)
8	I/O slot covers
9	Power connector
10	Thumbscrews for detachable access panel
11	Power supply unit fan
12	System fan

Non-Hot-Plug Model



Item	Description
1	Non-hot-plug hard disk drive (HDD) cage

System Board Components

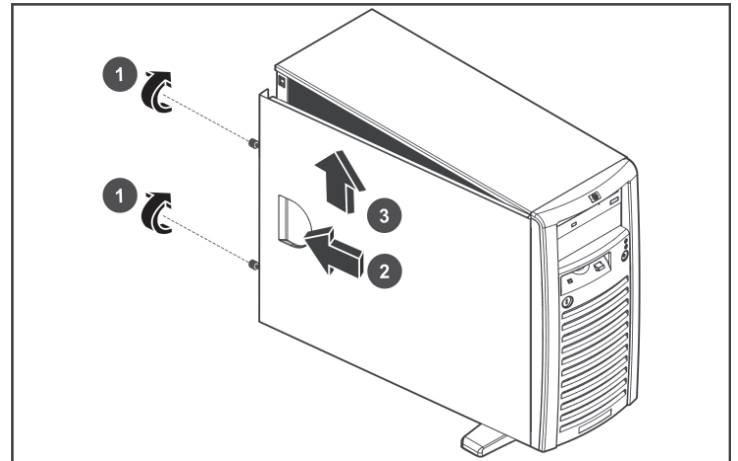


Item	Description	Code
1	24-pin power connector	J20
2	3-pin CPU fan connector	J26
3	5-pin power connector	J19
4	Processor 1 socket	U33
5	Processor 2 socket	U32
6	8-pin power connector	J40
7	Internal buzzer	BZ1
8	Intel south bridge chipset	U34
9	Primary IDE channel UDMA-33	J42
10	BIOS flash ROM	U44
11	34-pin FDD connector	J41
12	3-pin front system fan connector	J37
13	3-pin front system fan connector	J36
14	20-pin front panel I/O connector	J34
15	Battery	BT1
16	Remote management card connector	J27
17	3-pin CPU fan connector	J43
18	5-pin internal USB 2.0 connector	J25
19	PCI slot 1 (64-bit PCI-X)	PCIX1
20	PCI slot 2 (64-bit PCI-X)	PCIX2
21	PCI slot 3 (64-bit PCI-X)	PCIX3
22	PCI slot 4 (64-bit PCI-X)*	PCIX4
23	Winbond Super I/O chipset	U3
24	ATI Rage XL graphic chipset	U4
25	PCI slot 5 (32-bit)	PCI1
26	PCI slot 6 (PCI-E x4)	J17
27	Intel north bridge chipset	U18
28	3-pin system fan connector	J11
29	Broadcom GbE LAN chipset	U11
30	DIMM slot 4	DDR3
31	DIMM slot 3	DDR4
32	DIMM slot 2	DDR5
33	DIMM slot 1	DDR6

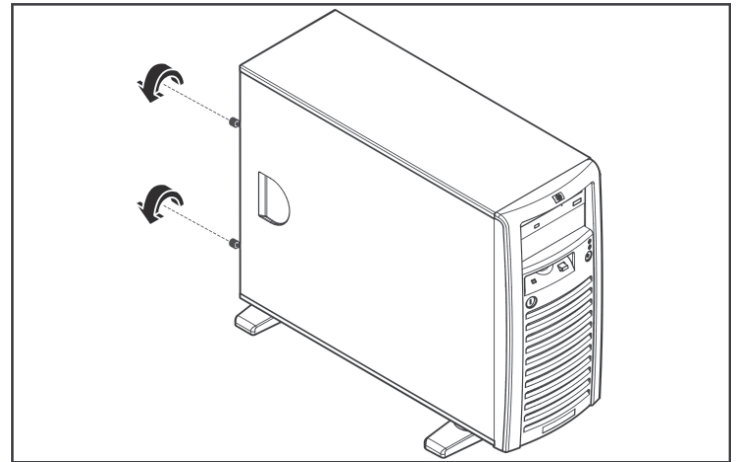
*Pre-installed with a SCSI or SATA card

Accessing Internal Components

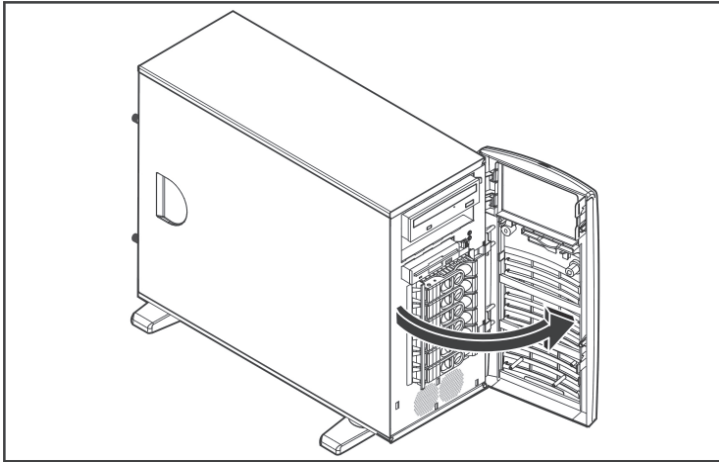
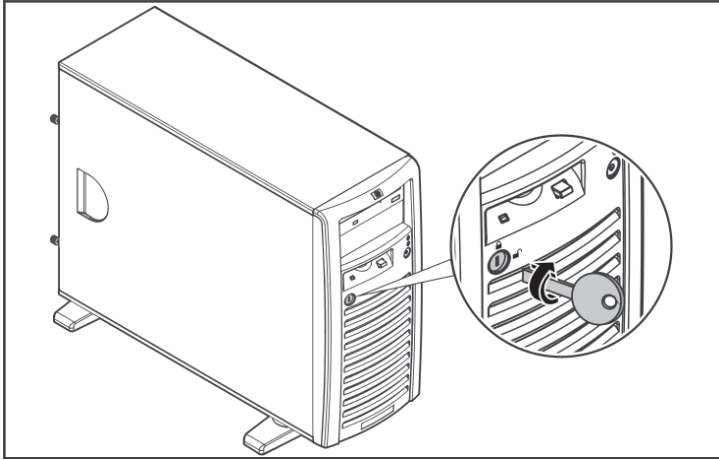
Opening the Access Panel



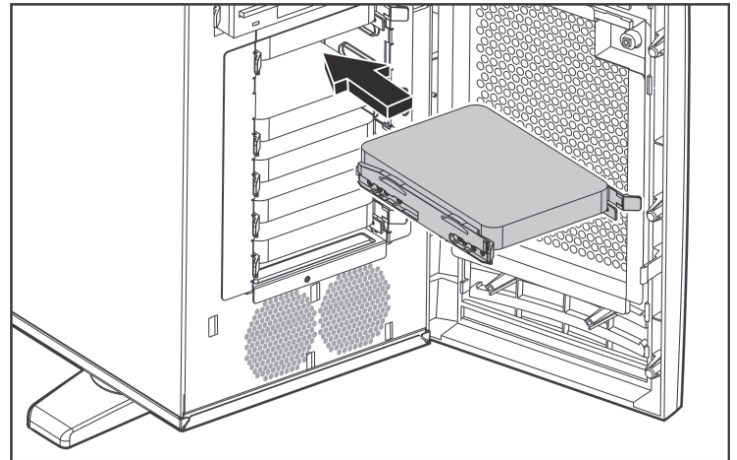
Closing the Access Panel



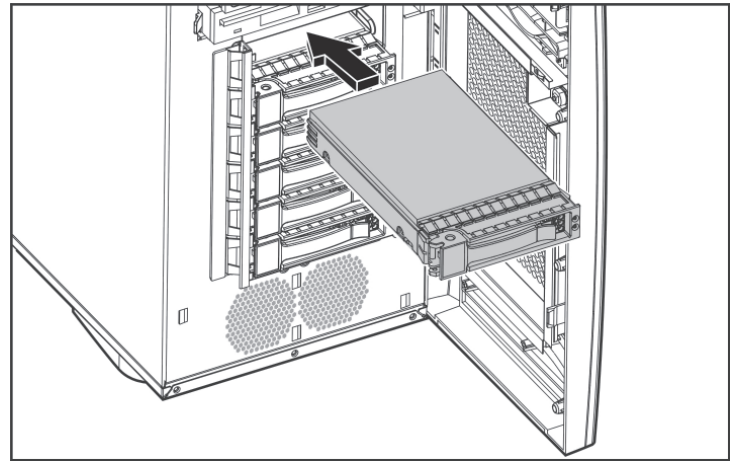
Opening the Front Bezel



SCSI Non-Hot-Plug Model



SATA Hot-Plug Model

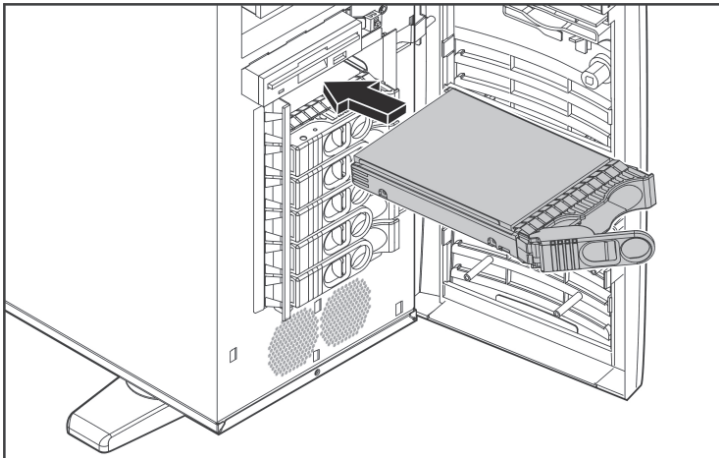


Installing Mass Storage Devices



CAUTION: Drives can be damaged by static electricity. Before handling drives, touch an unpainted metal surface to discharge static electricity.

SCSI Hot-Plug Model

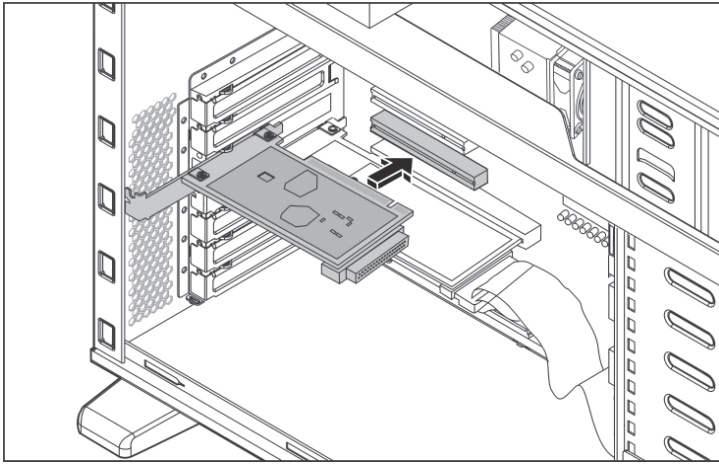
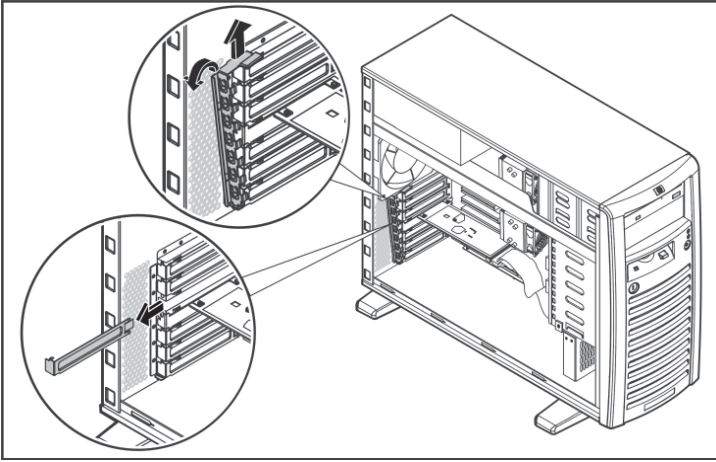


NOTE: Additional drives pre-assembled in the proper carriers can be purchased from HP. Please visit the HP website for additional information.

Installing the PCI Expansion Board

NOTE: Refer to “System Board Components” in this document for the expansion slot locations.

NOTE: The installation procedure described below applies to all SCSI hot-plug, SCSI non-hot-plug and SATA hot-plug models.



Installing Memory

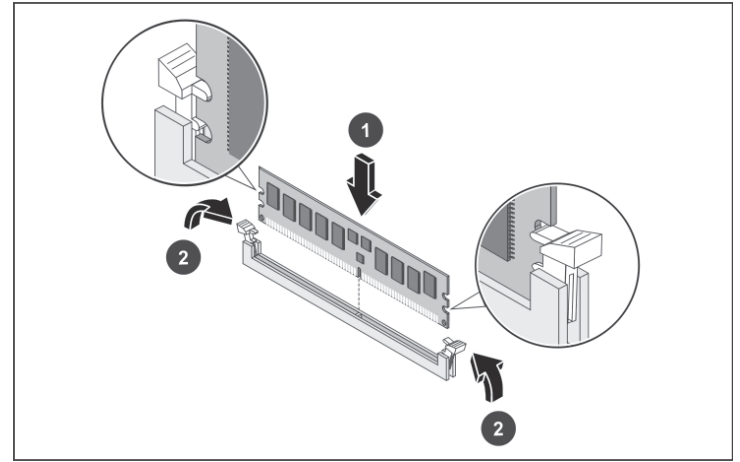
The following guidelines must be followed when memory modules are being added or replaced:

- Use only PC2700 333-MHz registered, ECC, DDR DIMMs.
- DIMM sizes supported are 256 MB, 512 MB, 1 GB, and 2 GB, allowing a total of 8 GB maximum system memory (2 GB in each of the 4 DIMM slots).
- Supported DIMM configurations are one single DIMM, two DIMMs (one pair, or sockets 1 and 3), or two pairs (4 DIMMs). The configuration of 3 DIMMs are not supported in this server.
- If two-way memory interleaving is desired, identical DIMMs must be installed in socket pairs. DIMMs installed in Pair A (sockets 1 and 2), however, do not need to be identical to the DIMMs in pair B (sockets 3 and 4).
- DIMM sizes may be mixed on the system board. HP recommends starting at slot 1 and filling the slots in order with the largest size first.



CAUTION: DIMMs can be damaged by improper handling. Always use an anti-static wrist strap and grounding mat, and discharge static electricity before touching DIMMs.

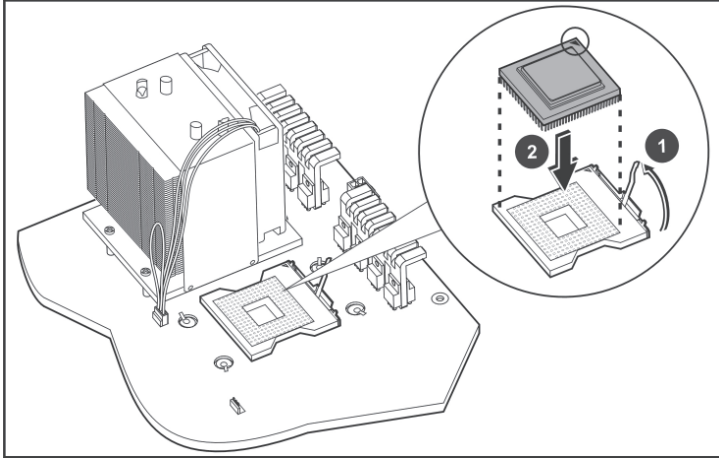
NOTE: Refer to “System Board Components” in this document for the DIMM locations.



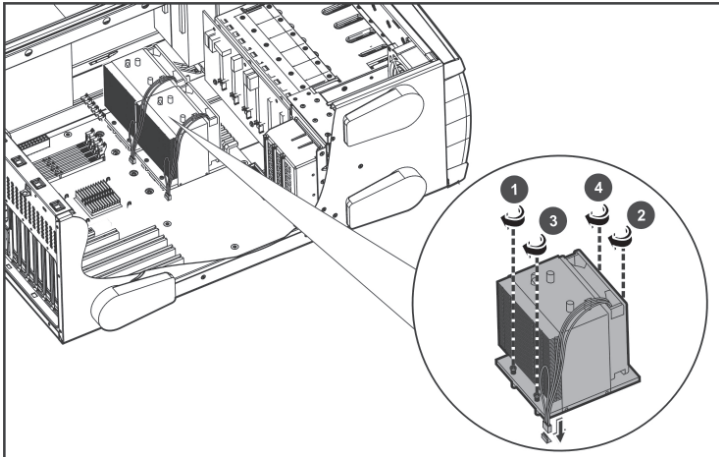
Installing a Second Processor



WARNING: Align pin 1 on the processor with pin 1 on the processor socket, or pin damage will occur.



WARNING: Be sure that the heatsink sits squarely on the processor, or overheating and damage to the processor may occur.



Obtaining Additional Documentation

For additional documentation, refer to the HP ProLiant ML150 G2 Server Support CD. You can also access additional information and documentation from the HP external website, either by connecting directly or through the Support CD.