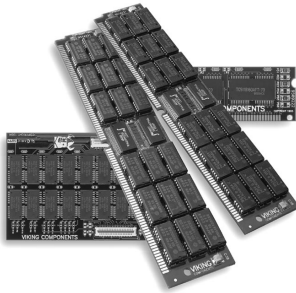


Viking Memory

INSTALLATION GUIDE

COMPAQ®

ProLiant 5000 6/166 Model 2, 6/200 Model 1



Manual No. 1005141 • Release 03/98, Rev. D

SPEED POWER PERFORMANCE

The Compaq ProLiant 5000 6/166 Model 2 comes standard with 128MB of removable memory. It can be expanded to a maximum of 4GB* by installing the following Viking Components memory options into its sixteen available expansion slots.

The Compaq ProLiant 5000 6/200 Model 1 comes standard with 64MB of removable memory. It can be expanded to a maximum of 4GB* by installing the following Viking Components memory options into its sixteen available expansion slots.

Description

Viking P/N

64MB DIMM Upgrade Kit**	C9282, RC9282
128MB DIMM Upgrade Kit**	C9283, RC9283
256MB DIMM Upgrade Kit**	C9284, RC9284
512MB DIMM Upgrade Kit**	C9285, RC9285
1GB DIMM Upgrade Kit**†	C5000/1G, RC5000/1G

*Requires removal of all of the standard memory.

**Each kit contains four memory modules.

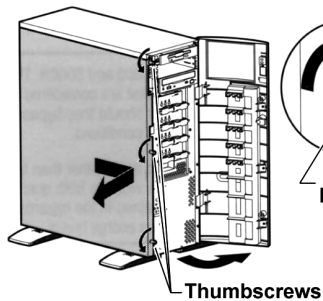
†This kit requires a Compaq memory board conversion kit (P/N 219487-001) to be installed and configured before the Viking DIMM Upgrade Kit can be install in all servers with the serial date code below X706 XXXX XXXX. Also the system's BIOS must be 1/26/98 or later.



Caution: Electro Static Discharge (ESD) can damage electronic components. Before touching the memory module, ensure that you are discharged of static electricity by touching a grounded metal object.

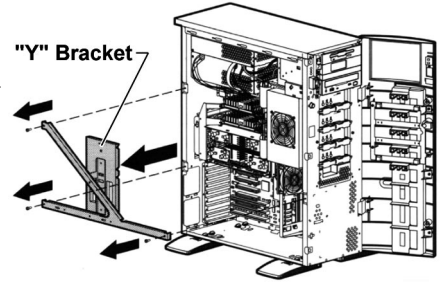
INSTALLATION INSTRUCTIONS:

1. Perform a system shutdown according to your operating system and network procedures. Turn the server off.
2. Turn off any peripheral devices connected to the server. Unplug the AC main power cord from the outlet and then from the back of the server.

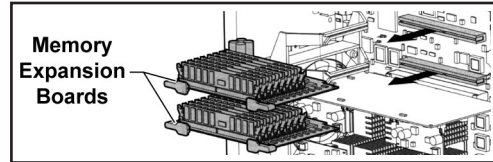


3. Facing the front of the system, locate and unlock the security key lock. Open the front panel by pulling the left side towards you. Locate the three thumbscrews on the left-side of the front panel. To remove the side access panel loosen the thumbscrews and slide the panel towards you, then to the left.

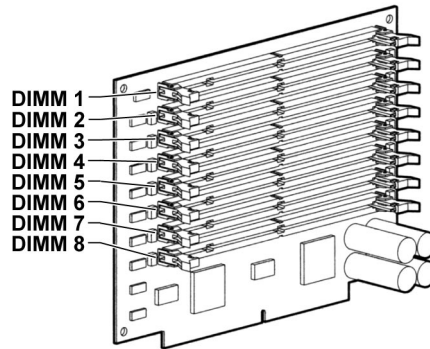
4. Locate the "Y" bracket towards the center of the open side panel. Also locate the three holding screws, one at each end of the "Y" bracket. Use a Torx T-15 screwdriver to remove the three holding screws. Then remove the "Y" bracket from the system by pulling it straight out.



5. Locate the two memory expansion boards towards the center of the open side panel. Gently remove the expansion boards, one at a time from the System I/O board, by pulling them straight out and placing them on a flat surface.



6. On each expansion board there are eight memory expansion slots. The DIMM 1 slot is located at the side opposite to the board connector. The DIMM 8 slot is the one closest to the board connector. This system requires interleaving when installing memory. For proper interleaving, use the following example. Since an upgrade kit consists of four identical memory modules, install the first module into slot DIMM 1 on one expansion board and the second module into slot DIMM 1 on the second expansion board. The remaining modules in the kit need to be installed into the slots DIMM 2 on both expansion boards. If these slots are already occupied with Viking memory, use the next available slots.



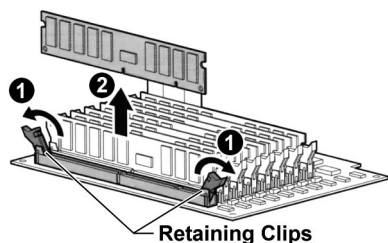
7. Due to the difference in DIMM designs and limitations built into the ROM of the Compaq ProLiant 5000, the following chart must be used when upgrading your system. This chart is for single DIMMs only.

(Individual Modules in Kits)							
Total Memory	8MS	16MS ⁽¹⁾	32MS ⁽²⁾	32MD	64MS	64MD	128MS
8MS	YES	NO	NO	NO	NO	NO	NO
8MD	NO	YES	NO	YES	YES	NO	YES
16MS	NO	YES	NO	YES	YES	NO	YES
16MD	YES	NO	NO	NO	NO	NO	NO
32MS	NO	NO	YES	NO	NO	YES	NO
32MD	NO	YES	NO	YES	YES	NO	YES
64MS	NO	YES	NO	YES	YES	NO	YES
64MD	NO	NO	YES	NO	NO	YES	NO
128MS	NO	YES	NO	YES	YES	NO	YES
128MD	NO	YES	NO	YES	YES	NO	YES
256MS	NO	YES	NO	YES	YES	NO	YES
256MD	NO	YES	NO	YES	YES	NO	YES

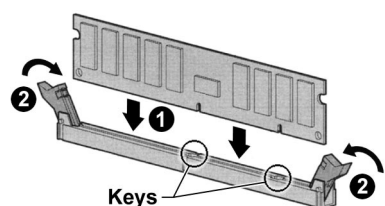
Legend: MS=MB, Single Bank
MD=MB, Double Bank
(1)=Model 1
(2)=Model 2

Note: Due to the incompatibility of chip technologies, all Compaq standard memory must be removed prior to installing these memory kit.

8. Since these systems use removable memory, some memory may need to be removed before installing additional memory. If you do not need to remove any memory modules, please proceed to step 9. To remove a memory module, pull the retaining clips on both sides of the module down. Then lift the module straight up from its slot.



9. To install a memory module, open the locking tabs on the expansion slot. Then align the notches on the module with the keys in the slot. Insert the module straight down into the expansion slot and then push the retaining clips towards the module until they click into place.



10. Replace the two memory expansion boards, one at a time, into their original positions by gently sliding them into their slots using the card guides. Make sure that the contacts on each board edge are fully seated in their connectors.

Note: When using double banked memory modules, the lower of the two memory expansion boards needs to be replaced first. This is due to the memory modules taller profile.

11. Replace the “Y” bracket to its original position and be sure to secure its three holding screws.

12. Replace the side access panel and be sure to secure its three thumbscrews. Close the front panel and return the security key to the locked position.

13. Reconnect any peripheral devices that you may have disconnected. Plug the AC main power cord into the system, then into a grounded AC outlet. Turn on any peripheral devices supported by the server.

14. Turn the server on. The system will automatically reconfigure itself to recognize the newly added memory. The new memory can be verified during the POST routine at start-up.

The installation is now complete.

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