

HP Vectra VL 5/xxx Series 4 PC

Models and Accessories

Product Number	Flexible Drive A:	Hard Drive C:	Disk Controller	Video Controller	Std. RAM	Integ. LAN	Multi-media
Vectra VL 5/xxx series 4 PC							
HP Vectra VL 5/75 series 4 PC (CPL: 09/96 ▶)							
D3651A	1.44 MB (D2035B)	540 MB (D2918A)	Integrated IDE Controller	Integrated ¹ S3 Trio 765 64 V+, (1 MB, upgradeable to 2 MB)	16 MB	None	None
D3651B²		1.2 GB (D2930A)			8 MB		
D3652B²		640 MB (D2929A)			8 MB		
HP Vectra VL 5/90 series 4 PC (CPL: 01/96 ▶)							
D3660A	1.44 MB (D2035B)	None	Integrated IDE Controller	Integrated ¹ S3 Trio 765 64 V+, (1 MB, upgradeable to 2 MB)	8 MB	None	None
D3661A		540 MB (D2918A)					
D3662A		1 GB (D2919A)			16 MB		
D3663A					Yes ³		
D3664A					8 MB		

1. Integrated video controller means that it is mounted on the system board.
2. These models have no level-two cache memory.
3. Includes Creative Labs Vibra16 SoundBlaster (non-PnP) audio board, 4× CD-ROM drive, headphones, audio software and audio documentation.



HP Vectra VL 5/xxx Series 4 PC

Product Number	Flexible Drive A:	Hard Drive C:	Disk Controller	Video Controller	Std. RAM	Integ. LAN	Multi-media
HP Vectra VL 5/100 series 4 PC (CPL: 01/96 ▶)							
D3670A	1.44 MB (D2035B)	None	Integrated IDE Controller	Integrated ¹ S3 Trio 765 64 V+, (1 MB, upgradeable to 2 MB)	8 MB	None	None
D3670B							
D3671A		540 MB (D2918A)		Integrated ¹ S3 Trio 765 64 V+, (1 MB, upgradeable to 2 MB)			
D3671B		640 MB (D2929A)		Integrated ¹ S3 Trio 64 PnP, (1 MB, upgradeable to 2 MB)			
D3672A		1 GB (D2919A)		Integrated ¹ S3 Trio 765 64 V+, (1 MB, upgradeable to 2 MB)	16 MB		
D3672B		1.2 GB (D2930A)		Integrated ¹ S3 Trio 64 PnP, (1 MB, upgradeable to 2 MB)	16 MB		
D3672S²							
D3673B							Yes ³
D3675B⁴		User defined			8 MB or more		None

1. Integrated video controller means that it is mounted on the system board.
2. 'S' models are OS/2 bundles.
3. Includes Creative Labs Vibra16 SoundBlaster (non-PnP) audio board, 4× CD-ROM drive, headphones, audio software and audio documentation.
4. ECTO program



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HP Vectra VL 5/xxx Series 4 PC

Product Number	Flexible Drive A:	Hard Drive C:	Disk Controller	Video Controller	Std. RAM	Integ. LAN	Multi-media	
HP Vectra VL 5/120 series 4 PC (CPL: 01/96 ▶)								
D3680A	1.44 MB (D2035B)	None	Integrated IDE Controller	Integrated ¹ S3 Trio 765 64 V+, (1 MB, upgradeable to 2 MB)	8 MB	None	None	
D3680B								Integrated ¹ S3 Trio 64 PnP, (1 MB, upgradeable to 2 MB)
D3681A								Integrated ¹ S3 Trio 765 64 V+, (1 MB, upgradeable to 2 MB)
D3682A					540 MB (D2918A)			16 MB
D3682B					1 GB (D2919A)			
D3684B²					1.2 GB (D2930A)			16 MB or more
D4659B					User defined			
	1.2 GB (D2930A)	8 MB						

1. Integrated video controller means that it is mounted on the system board.
2. ECTO program.

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HP Vectra VL 5/xxx Series 4 PC

Product Number	Flexible Drive A:	Hard Drive C:	Disk Controller	Video Controller	Std. RAM	Integ. LAN	Multi-media	
HP Vectra VL 5/133 series 4 PC (CPL: 12/95 ▶)								
D3685B¹	1.44 MB (D2035B)	User defined	Integrated IDE Controller	Integrated ² S3 Trio 64 PnP, (1 MB, upgradeable to 2 MB)	16 MB or more	None	None	
D3686B¹				Matrox MGA Millennium board (2 MB, upgradeable to 4 MB or 8 MB)				Yes ³
D3690A		None		Integrated ² S3 Trio 765 64 V+, (1 MB, upgradeable to 2 MB)	8 MB		None	
D3690B				Integrated ² S3 Trio 64 PnP, (1 MB, upgradeable to 2 MB)				
D3692A				1 GB (D2919A)	Integrated ² S3 Trio 765 64 V+, (1 MB, upgradeable to 2 MB)			16 MB
D3692B D3692S⁴				1.2 GB (D2930A)	Integrated ² S3 Trio 64 PnP, (1 MB, upgradeable to 2 MB)			
D3693A		1 GB (D2919A)		Matrox MGA Millennium board (2 MB, upgradeable to 4 MB or 8 MB)			Yes ³	

1. ECTO program.
2. Integrated video controller means that it is mounted on the system board.
3. Includes Creative Labs Vibra16 SoundBlaster (non-PnP) audio board, 4× CD-ROM drive, headphones, audio software and audio documentation.
4. 'S' models are OS/2 bundles.



HP Vectra VL 5/xxx Series 4 PC

Product Number	Flexible Drive A:	Hard Drive C:	Disk Controller	Video Controller	Std. RAM	Integ. LAN	Multi-media
HP Vectra VL 5/133 series 4 PC (continued)							
D3693B	1.44 MB (D2035B)	1.2 GB (D2930A)	Integrated IDE Controller	Matrox MGA Millennium board (2 MB, upgradeable to 4 MB or 8 MB)	16 MB	None	Yes ¹
D4644B		2.5 GB (D2784-69001)		Integrated ² S3 Trio 64 PnP, (1 MB, upgradeable to 2 MB)			None
D4650B				Matrox MGA Millennium board (2 MB, upgradeable to 4 MB or 8 MB)			Yes ³
D4654B		1.6 GB (D2927-69001)		Integrated ² S3 Trio 64 PnP, (1 MB, upgradeable to 2 MB)			None
D4657B⁴		User defined		Matrox MGA Millennium board (2 MB, upgradeable to 4 MB or 8 MB)			Yes ³
D4688B		1.2 GB (D2930A)		Integrated ² S3 Trio 64 PnP, (1 MB, upgradeable to 2 MB)			8 MB

1. Includes Creative Labs Vibra16 SoundBlaster (non-PnP) audio board, 4× CD-ROM drive, headphones, audio software and audio documentation.
2. Integrated video controller means that it is mounted on the system board.
3. Includes a PnP audio board, 8× CD-ROM drive, headphones, audio software and audio documentation.
4. ECTO program.



HP Vectra VL 5/xxx Series 4 PC

Product Number	Flexible Drive A:	Hard Drive C:	Disk Controller	Video Controller	Std. RAM	Integ. LAN	Multi-media			
HP Vectra VL 5/150 series 4 PC (CPL: 03/96 ▶)										
D3687B¹	1.44 MB (D2035B)	User defined	Integrated IDE Controller	Integrated ² S3 Trio 64 PnP, (1 MB, upgradeable to 2 MB)	16 MB or more	None	None			
D3694B		None								
D3695B		1.2 GB (D2930A)								
D4645B		2.5 GB (D2784-69001)								
HP Vectra VL 5/166 series 4 PC (CPL: 03/96 ▶)										
D3688B¹	1.44 MB (D2035B)	User defined	Integrated IDE Controller	Integrated ² S3 Trio 64 PnP, (1 MB, upgradeable to 2 MB)	16 MB or more	None	None			
D3689B¹		User defined						Matrox MGA Millennium board (2MB, upgradeable to 4 MB or 8 MB)	Yes ³	
D3696B		None								Integrated ² S3 Trio 64 PnP, (1 MB, upgradeable to 2 MB)
D3697B		1.2 GB (D2930A)						Matrox MGA Millennium board (2 MB, upgradeable to 4 MB or 8 MB)	16 MB	
D3698B		1.6 GB (D2927-69001)								Yes ⁴
D4646B		2.5 GB (D2784-69001)								

1. ECTO program.
2. Integrated video controller means that it is mounted on the system board.
3. Includes Creative Labs Vibra16 SoundBlaster (non-PnP) audio board, 4× CD-ROM drive, headphones, audio software and audio documentation.
4. Includes a PnP audio board, 8× CD-ROM drive, headphones, audio software and audio documentation.



HP Vectra VL 5/xxx Series 4 PC

Product Number	Flexible Drive A:	Hard Drive C:	Disk Controller	Video Controller	Std. RAM	Integ. LAN	Multi-media
HP Vectra VL 5/166 series 4 PC (continued)							
D4655B	1.44 MB (D2035B)	2.5 GB (D2784-69001)	Integrated IDE Controller	Integrated ¹ S3 Trio 64 PnP, (1 MB, upgradeable to 2 MB)	16 MB	None	None
D4658B²		User defined		Matrox MGA Millennium board (2 MB, upgradeable to 4 MB or 8 MB)			Yes ³
HP Vectra VL 5/200 series 4 PC (CPL: 09/96 ▶)							
D4647B	1.44 MB (D2035B)	None	Integrated IDE Controller	Integrated ¹ S3 Trio 64 PnP, (1 MB, upgradeable to 2 MB)	8 MB	None	None
D4648B		1.6 GB (D2927-69001)			16 MB		None
D4649B		2.5 GB (D2784-69001)		Matrox MGA Millennium board (2 MB, upgradeable to 4 MB or 8 MB)	16 MB		
D4652B²		User defined		Integrated ¹ S3 Trio 64 PnP, (1 MB, upgradeable to 2 MB)	16 MB or more		None
D4653B²				Matrox MGA Millennium board (2 MB, upgradeable to 4 MB or 8 MB)			Yes ³

1. Integrated video controller means that it is mounted on the system board.
2. ECTO program.
3. Includes a PnP audio board, 8× CD-ROM drive, headphones, audio software and audio documentation.



HP Vectra VL 5/xxx Series 4 PC

Product Number	Flexible Drive A:	Hard Drive C:	Disk Controller	Video Controller	Std. RAM	Integ. LAN	Multi-media
HP Vectra VL 5/200 series 4 PC (continued)							
D4687B	1.44 MB (D2035B)	2.5 GB (D2784-69001)	Integrated IDE Controller	Integrated ¹ S3 Trio 64 PnP, (1 MB, upgradeable to 2 MB)	16 MB	None	None

1. Integrated video controller means that it is mounted on the system board.

Note

All models have 256 KB of level-two synchronous cache memory, except where otherwise stated.

Integrated Ultra VGA Video Controllers

All **D3xxxA** models with integrated video controller have the **S3 Trio 765 64 V+** video controller chip.

All **D3xxxB** models with integrated video controller have the **S3 Trio 64 PnP** video controller chip.

The latest video drivers for S3 Trio 765 64 V+ and S3 Trio 64 PnP *are now compatible*.

Supported Accessories

1 MB Video Memory Upgrade Kit for S3 Trio 64 integrated video controller	D3500A
2 MB Video Memory Upgrade Kit for Matrox MGA Millennium	D3557B
8 MB (pair of 4 MB) EDO 60ns Main Memory Upgrade Kit (32-bit)	D3646B
16 MB (pair of 8 MB) EDO 60ns Main Memory Upgrade Kit (32-bit)	D3647B
32 MB (pair of 16 MB) EDO 60ns Main Memory Upgrade Kit (32-bit)	D3648B
64 MB (pair of 32 MB) EDO 60ns Main Memory Upgrade Kit (32-bit)	D4543A
10 Pairs of 4 MB EDO 60ns Main Memory Upgrade Bundle (32-bit)	D2878A
10 Pairs of 8 MB EDO 60ns Main Memory Upgrade Bundle (32-bit)	D2879A
10 Pairs of 16 MB EDO 60ns Main Memory Upgrade Bundle (32-bit)	D3649A
256 KB synchronous cache memory module	D3659B
512 KB synchronous cache memory module	D4599A
<i>User's Guide</i> Manual Kit	D3645B

Multimedia Products

Audio/CD MM Upgrade	D2941B
HP Integrated Office	D2887A
HP Multimedia Sound 16 (non-PnP audio board, 4× CD-ROM)	D3567A
HP Multimedia Sound (PnP audio board, 8× CD-ROM)	D4179A



Input Devices

HP Mouse	C3751B
HP Keyboard	C3756A
HP Keyboard for Windows® 95	C4725A
HP Keyboard for OS/2	C3757B

Video Displays

All current HP Displays (see the *HP Vectra Accessory Service Handbook*)

Mass Storage

Flexible Disk 3.5-inch 1.44 MB (1-inch High)	D2035B
Flexible Disk 5.25-inch 1.2 MB (1.5-inch High)	D2881B
540 MB IDE Hard Disk	D2918A
640 MB IDE Hard Disk	D2929A
850 MB IDE Hard Disk	D2925A
1 GB IDE Hard Disk	D2919A
1.2 GB IDE Hard Disk	D2930A
1.2 GB IDE Hard Disk	D2785A
2.5 GB IDE Hard Disk	D2786A
1 GB SCSI-2 Hard Disk	D2076B
IDE 4× CD-ROM Drive (new color)	D2896B
IDE 8× CD-ROM Drive	D4381A
100 MB Zip IDE Disk Drive	D4390A

LAN Boards

ISA LAN Adapter NC/16TP (Single)	J2405A
Selectable ISA Adapter 10/100 VG	J2573A
PCI Ethernet adapter 10/100 VG	J2585B
Ethertwist Adapter/16 TP Plus	27247B

Rails and trays

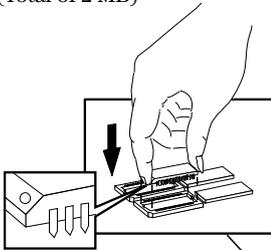
3.5-inch 1/3 height mounting rails (5 pack)	D3566A
5.25-inch 1/2 height mounting rails (5 pack)	D2880A
3.5-inch 1/3 height mounting rails	5063-0309
Mounting rails kit for non-HP drives: 1×3.5-inch rail, 1×5.25-inch rail	5063-7922



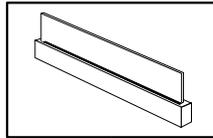
System Board, Memory, and Switches

Video Memory:¹

2 sockets for 1 MB upgrade.
(Total of 2 MB)

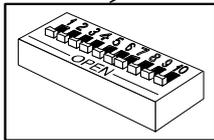
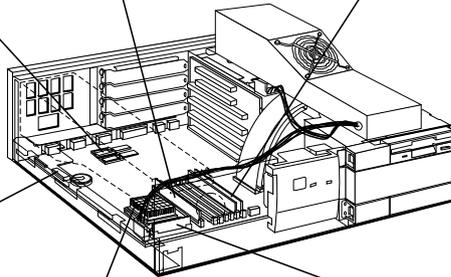
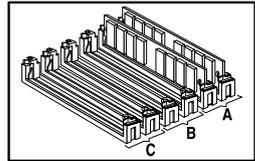


256 KB Cache Memory



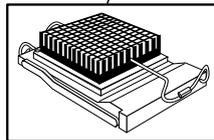
Main Memory:

Install pairs of identical modules in each bank.
Use only 4 MB or 16 MB modules in bank C.
(Maximum of 128 MB)



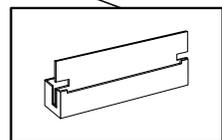
System Board Switches:

Set switches 1,2,3,4 & 7 to correspond to processor frequency.
(Refer to next page)



Processor:

Zero Insertion Force (ZIF) socket allows Pentium processor upgrades.



Voltage Regulator Module (VRM):

Install with Pentium processor upgrade.

¹ Applies only to models with integrated video controller.



System Board Switches

Switch		Function	Default
1-4	-	Processor speed, see following table	-
5	OPEN	Enables User and Administrator passwords	OPEN
	CLOSED	Clears User and Administrator passwords	
6	OPEN	Normal operation	OPEN
	CLOSED	Clears CMOS	
7	-	Processor speed, see following table	-
8	OPEN	Disables secure mode	OPEN
	CLOSED	Enables secure mode - prevents modification of SETUP values and flashing of BIOS	
9	OPEN	Disables keyboard power-on	CLOSED
	CLOSED	Enables keyboard power-on	
10	OPEN	Not used	OPEN

Pentium Processor Frequency	Switch				
	1	2	3	4	7
75 MHz	Closed	Closed	Open	Open	Open
90 MHz	Closed	Open	Open	Open	Closed
100 MHz	Open	Closed	Open	Open	Closed
120 MHz	Closed	Open	Closed	Open	Closed
133 MHz	Open	Closed	Closed	Open	Closed
150 MHz	Closed	Open	Closed	Closed	Closed
166 MHz	Open	Closed	Closed	Closed	Closed
200 MHz	Open	Closed	Open	Closed	Closed



HP Vectra VL 5/xxx Series 4 PC

IRQs and I/O Addresses

IRQ	Function	I/O Port Hex
IRQ 3	Free if not used for serial port	2E8h - 2EFh
IRQ 4	Free if not used for serial port	2F8h - 2FFh
IRQ 5	Free if not used for parallel port	278h - 27Fh, 678h - 67Bh ECP mode
IRQ 6	Integrated flexible disk drive controller	3F0h - 3F5h, 3F7h
IRQ 7	Free if not used for parallel port	378h - 37Fh, 778h - 77Bh ECP mode
IRQ 9	Available for PCI devices, if not used by ISA board	—
IRQ 10	Available for PCI devices, if not used by ISA board	—
IRQ 11	Available for PCI devices, if not used by ISA board	—
IRQ 14	Integrated IDE controller primary channel	1F0h - 1F7h, 3F6h
IRQ 15	Free if not used by secondary IDE channel	170h - 177h, 376h
—	Integrated I/O controller	370h - 371h
—	Integrated video controller	3B0h - 3DFh
—	HP Reserved	496h - 497h

Setup and BIOS History

The latest BIOS, the flasher utility program, and the BIOS history can each be obtained from the HP Electronic Services. BIOS revisions are of the form GT.07.xx.



POST Error Messages

The following error messages apply to the Vectra VL 5/xxx series 4 desktop and Vectra VL 5/xxx MT series 4 mini-tower only.

Message	Corrective Action and/or Explanation
Operating system not found	Check whether the disk, HDD, FDD or CD-ROM disk drive is connected. If it is connected, check that it is detected by <i>Setup</i> . Check that your boot device is enabled on the <i>Setup</i> Security menu. If the problem persists, check that the boot device contains the operating system.
Missing operating system	If you have configured HDD user parameters, check that they are correct. Otherwise, use HDD type "Auto" parameters.
Failure fixed disk (preceded by a 30" time-out)	Check that HDD is connected. Check that HDD is detected in <i>Setup</i> . Check that boot on hard disk drive is enabled in <i>Setup</i> .
Diskette Drive A (or B) error	Check whether the diskette drive is connected. Check <i>Setup</i> for the configuration.
System battery is dead	You may get this message if the PC is disconnected for a few days. When you Power-on the PC, run <i>Setup</i> to update the configuration information. The message should no longer be displayed. Should the problem persist, replace the battery.
Keyboard error	Check that the keyboard is connected.
Resource Allocation Conflict -PCI device 0079 on motherboard	Clear CMOS.
Video Plug and Play interrupted or failed Re-enable in Setup and try again	You may have powered your PC Off/On too quickly and the PC turned off Video plug and play as a protection.
System CMOS checksum bad - run Setup	CMOS contents have changed between 2 power-on sessions. Run <i>Setup</i> for configuration.
I/O device IRQ conflict	Serial ports A and B may have been assigned the same IRQ. Assign a different IRQ to each serial port and save the configuration.



HP Vectra VL 5/xxx Series 4 PC

Message	Corrective Action and/or Explanation
No message, system “hangs” after POST	Check that cache memory and main memory are correctly set in their sockets.
Other	An error message may be displayed and the PC may “hang” for 20 seconds and then beep. The POST is probably checking for a mass storage device which it cannot find and the PC is in Timeout Mode. After Timeout, run <i>Setup</i> to check the configuration.

Cache Memory

PCs with 256 KB of level-two cache memory use synchronous pipeline burst cache, which is faster than traditional asynchronous cache.

Video Memory

The models with integrated video controller are supplied with 1 MB of video memory for 1024 × 768 in 256 colors. An additional 1 MB of video memory can be installed by adding a pair of 512 KB modules in surface mount technology sockets. This will make a total of 2 MB for 1024 × 768 in 64 K colors. You will need the PLLC Extraction Tool (part number 5041-2553) to remove the video upgrade chips from their sockets.

The models with Matrox MGA Millennium video card have 2 MB of video memory for 1600 × 1200 in 256 colors. Additional memory can be installed on this card for a total of 4 MB or 8 MB of video memory. (The 6 MB upgrade is available from Matrox.)

Main Memory

The PC uses 32-bit 60ns EDO main memory modules. Memory modules must be *installed in pairs of identical modules*. Use only 4 MB and 16 MB modules in bank C.

The PC is supplied with 8 MB or 16 MB of main memory (2 × 4 MB or 2 × 8 MB memory modules installed in bank A). The maximum memory supported is 128 MB.

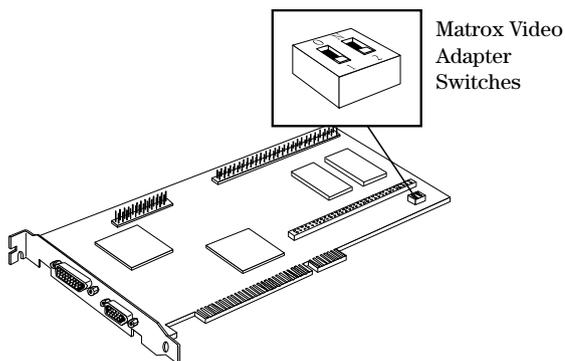
Installing an IDE CD-ROM

It is recommended that the IDE CD-ROM drive be connected to the CD-ROM data cable rather than to the HDD data cable. Connecting the CD-ROM drive to the HDD data cable can reduce the performance of the hard disk drive connected to it. The CD-ROM data cable has a red connector and is marked “CD-ROM” next to the system board connector.



Matrox Video Adapter Flash BIOS and Switches

The Matrox MGA Millennium video adapter card has a Flash BIOS. The video BIOS can therefore be upgraded when updates are made available by Matrox.

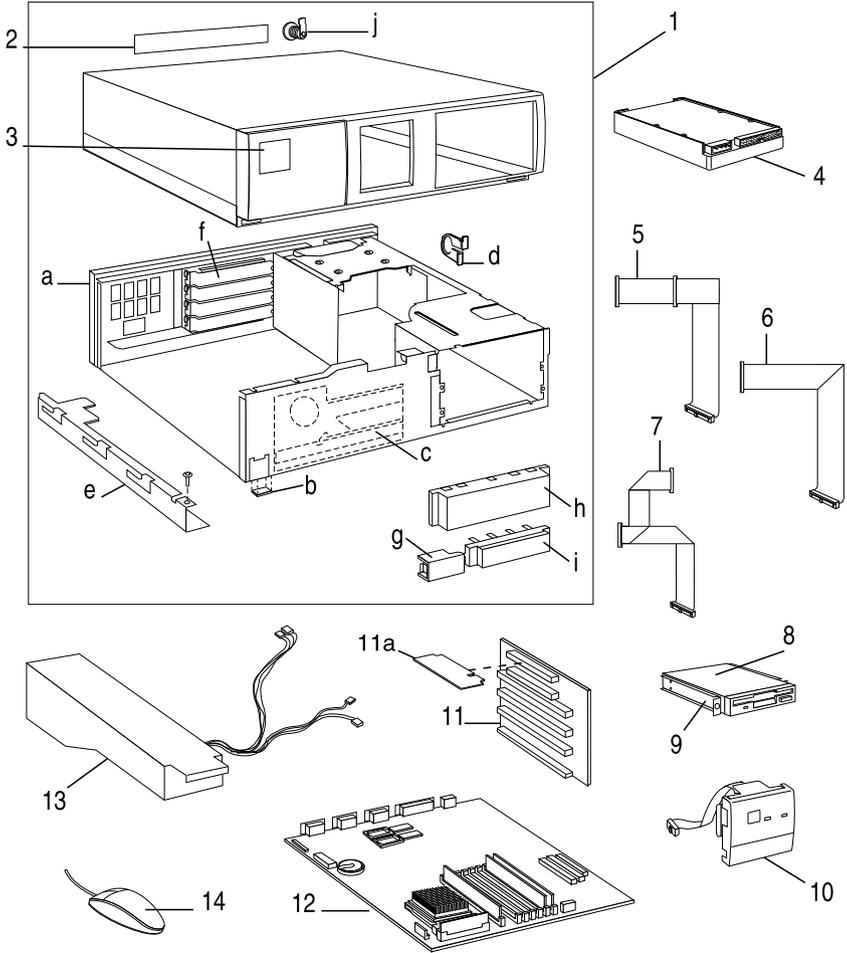


Switch	Function
1	<ul style="list-style-type: none"> • OFF to prevent Video BIOS upgrades - DEFAULT • ON to allow Video BIOS upgrades
2	<ul style="list-style-type: none"> • OFF for single-screen operation - DEFAULT • ON for dual-screen operation (with second VGA controller)



HP Vectra VL 5/xxx Series 4 PC

Part Numbers



* The system board is shown with the integrated video controller, supplied on all models not having the Matrox MGA Millennium video card.



HP Vectra VL 5/xxx Series 4 PC

Parts List for HP Vectra VL 5/xxx series 4 PC

Item	Description	Repl. Part Number	Exchange Part Number
1	Box Assembly: a Rear Bezel b Bumper Foot c System Board Side Guide d Security Bracket e Side Panel f I/O Panel Blank g Filler panel 1.75 inch h Filler Panel 5.25 inch i Filler panel 3.5 inch j Cover Lock Assembly	5064-0215 - 02225-00010 5042-0507 - - 45935-00004 5042-1155 5063-7066 5063-7067 5062-5590	—
2	Rear Bezel Label	5042-1177	—
3	Nameplate: HP Vectra VL Series 4 HP Vectra VL 5/90 series 4 HP Vectra VL 5/100 series 4 HP Vectra VL 5/120 series 4 HP Vectra VL 5/133 series 4 HP Vectra VL 5/150 series 4 HP Vectra VL 5/166 series 4 HP Vectra VL 5/200 series 4	5042-1829 5042-1410 5042-1411 5042-1412 5042-1428 5042-1429 5042-1811 5042-1488	— — — — — — — —
4	Hard Disk Drive (standard) ¹ 540 MB IDE 640 MB IDE 840 MB IDE 1 GB IDE 1.2 GB IDE 1.6 GB IDE 2.5 GB IDE	D2918-63001 D2929-63001 D2749-63001 D2919-63001 D2930-63001 D2927-63001 D2784-63001	D2918-69001 D2929-69001 D2749-69001 D2919-69001 D2930-69001 D2927-69001 D2784-69001
5	Hard Disk Cable (IDE drive)	5182-1862	—
6	CD-ROM Cable (IDE drive)	5182-1856	—
7	Flexible Disk Drive Cable	5182-1037	—
8	Flexible Disk Drive	D2035-63152	—
9	Rail kit (1 × 3.5 inch, 1 × 5.25 inch)	5063-7922	—
10	Status (Control) Panel Standard Models Multimedia Models	5063-7956 5064-0294	— —
11	Backplane Assembly	5063-8733	—

1. For optional disk drive information, see the *Accessory Service Handbook*.



HP Vectra VL 5/xxx Series 4 PC

Parts List for HP Vectra VL 5/xxx series 4 PC (Continued)

Item	Description	Repl. Part Number	Exchange Part Number
11a	PCI terminator module ¹	5064-0289	
12	System Board	See PC's system board parts list	
13	Power Supply Assembly	5063-7943	—
14	Mouse	C3751-60201	—

- To be used only when no PCI boards are installed (e.g. Matrox video board or PCI network boards).

System Board Parts List for HP Vectra VL 5/xxx series 4 PC

Description	Repl. Part Number	Exchange Part Number
System Board (includes integrated IDE disk controller) ¹		
Vectra VL 5/xxx series 4 System Board <i>with Trio 765 64 V+</i> integrated video controller (<i>DxxxxA</i> models) ²	D3652-63001	D3652-69001
Vectra VL 5/xxx series 4 System Board <i>with Trio 64 PnP</i> integrated video controller (<i>DxxxxB</i> models) ²	D3655-63001	D3655-69001
Vectra VL 5/xxx series 4 System Board <i>without</i> integrated video controller (Matrox models)	D3651-63001	D3651-69001
Processors:		
Pentium P54C 75 MHz (VCC standard)	5063-8586	
Pentium P54C 90 MHz (VCC standard)	5063-8787	—
Pentium P54C 100 MHz (VCC standard)	5063-7059	—
Pentium P54C 120 MHz (VCC standard)	5063-8765	—
Pentium P54CS 133 MHz (VCC standard)	5063-7974	—
Pentium P54CS 150 MHz (VCC standard)	5063-9019	—
Pentium P54CS 166 MHz (VRE)	5063-9049	—
Pentium P54CS 200 MHz (VRE)	5064-0246	
Heatsink	1205-0832	—
Voltage Regulator Module 75/90/100/133/150 MHz (VCC standard)	5063-7939	—
Voltage Regulator Module 120/166/200 MHz (VRE)	5063-7940	—
Main Memory Modules:		
8 MB kit (2 × 4 MB) Main Memory 60ns EDO DRAM (32-bit)	D3646-63001	—
16 MB kit (2 × 8MB) Main Memory 60ns EDO DRAM (32-bit)	D3647-63001	—

- These assemblies are supplied without main memory modules, cache memory, processor and Voltage Regulator Module.
- Make sure to replace the system board with the appropriate integrated video controller.



HP Vectra VL 5/xxx Series 4 PC

System Board Parts List for HP Vectra VL 5/xxx series 4 PC (Continued)

Description	Repl. Part Number	Exchange Part Number
Cache Memory Module:		
256 KB Synchronous Cache Memory Module	D3659-63002	—
256 KB Asynchronous Cache Memory Module	5063-7947	—
Video Adapter Board:		
Matrox MGA Millennium Video Adapter	D3568-69005	—
Video Memory Upgrades:		
1 MB Video Memory Upgrade kit for integrated video controller	D3500-63001	—
2 MB Video Memory Upgrade Kit for Matrox MGA Millennium video adapter board	D3557-63002	—
Batteries:		
3V System Board Battery ¹	1420-0314	—
4.5V Battery	1420-0513	—

- You can replace this battery with a Panasonic/Rayovac BR2325 battery, or with the equivalent HP battery (1420-0314).

Software for HP Vectra VL 5/xxx series 4 PC

Drivers and Utilities Disk kit (Windows/DOS drivers for models without a hard disk drive)	5063-7921
Multimedia S/W, utilities and drivers CD-ROM (non-PnP audio board D3567A)	5963-8032
Multimedia S/W (PnP audio board D4179A)	5964-8365

HP Vectra VL 5/xxx series 4 Multimedia PC Parts List

IDE 4× CD-ROM Drive	D2896-63401
IDE 8× CD-ROM Drive	D4381-63001
CD-ROM to Sound Card Audio Cable	5182-1857
Speaker	5063-4559
Audio Board	5063-9057
Headphones	5182-3552

Support Manuals for HP Vectra VL 5/xxx series 4 PC

Familiarization Guide	D3645-90901
Technical Reference Manual: Hardware and BIOS	N/A ¹

- Printable electronic file only.



