HP Compaq Business Desktop d240/d248 Microtower Models

Illustrated Parts Map

Celeron and Pentium Processors

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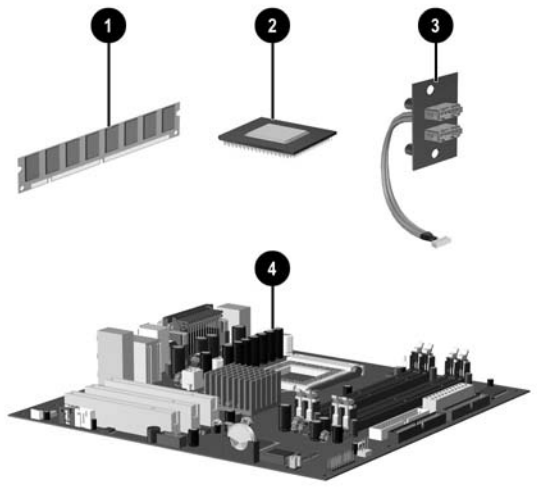
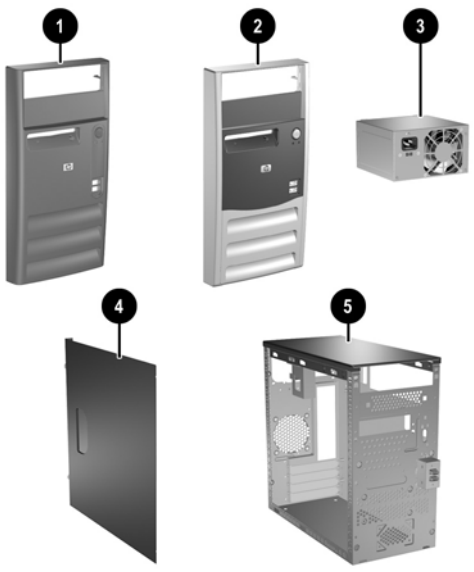


Standard and Optional Boards

Memory modules		
1	128 MB PC3200	335697-001
*	256 MB PC3200	335698-001
*	512 MB PC3200	335699-001
*	1 GB PC3200	335700-001
Intel Processors with alcohol pad and thermal grease		
2	Celeron 2.5 GHz processor	344056-001
*	Celeron 2.6 GHz processor	344057-001
*	Pentium 2.6 GHz processor	333863-001
*	Pentium 2.8 GHz processor	333864-001
*	Pentium 3.0 GHz processor	333865-001
*	Pentium 3.2 GHz processor	335813-001
3	Front I/O PCA with cable	342725-001
System board with alcohol pad and thermal grease		
4	System board without AGP socket	351067-001
Other boards		
*	Lucent 56K PCI Win modem	239411-001

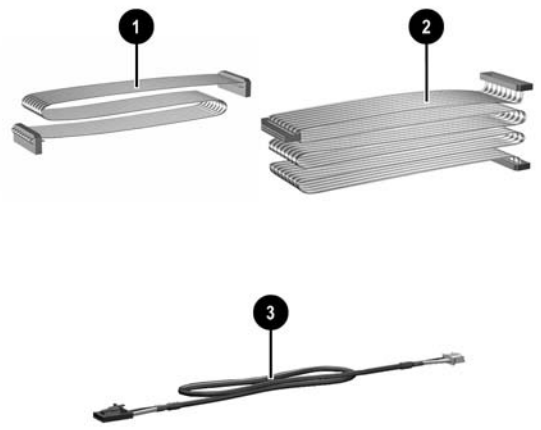
** Not shown*



System Unit

1	Front bezel (1 carbonite and 1 silver) with diskette drive bezel. (See Miscellaneous plastics kit for contents) for d240 model	337555-001
2	Front bezel (cmbined carbonite and silver) with diskette drive bezel. (See Miscellaneous plastics kit for contents) for d248 model	354696-001
4	Access panel (left or right side) (See Miscellaneous plastics kit for contents)	could be 1 of 2 kits
5	Chassis	not spared
3	Power supply, PFC	351071-001
*	Power supply, non-PFC	351070-001

** Not shown*



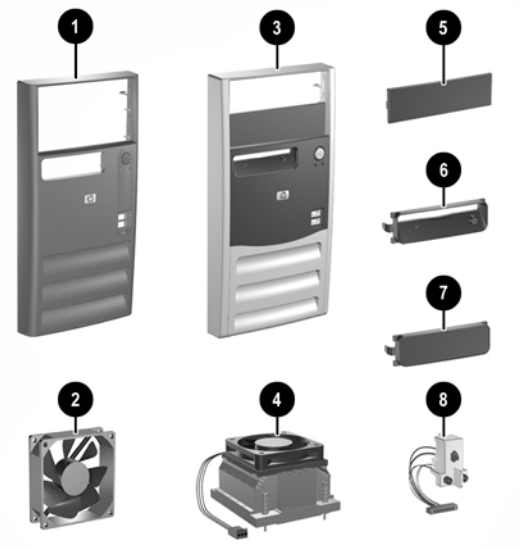
Cables

1	Diskette drive cable	335190-001
2	Hard drive cable, primary ATA (2 devices)	335188-001
*	Optical drive cable, secondary ATA (2 devices)	335189-001
3	Audio cable	335191-001
*	Front USB cable	351073-001

**Not shown*

Keyboards (not illustrated)

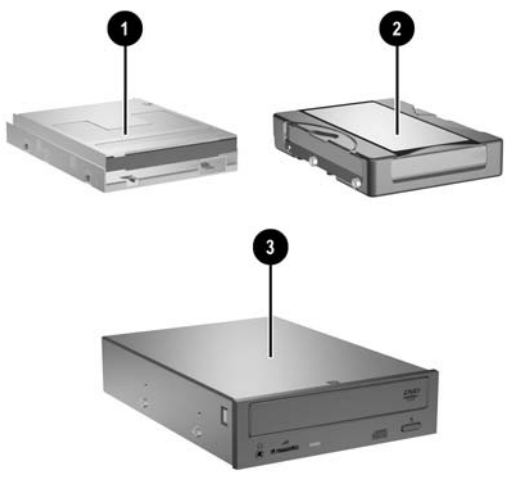
Keyboard, PS2		**335192-xxx**	
Brazil	-201	Latin American Spanish	-161
French Canadian	-121	Peoples Republic of China	-AA1
International	-B31	Taiwanese	-AB1
Japanese	-291	Thai	-281
Korean	-AD1	U.S.	-001



Miscellaneous Parts

Front bezel kit, (1 carbonite and 1 silver) for d240 model, includes:		337555-001
1	Front bezel (also ships in solid silver	
5	5.25” drive bezel with metal shield	
6	Diskette drive bezel	
7	3.5” drive bezel blank with metal shield	
*	Side access panel	
*	Thumb screw for side access panel	
Front bezel kit as described above except only front bezel #3 (carbonite and silver) for d248 model		354696-001
2	Chassis fan	351068-001
4	Heatsink with alcohol pad and thermal grease	351072-001
8	Power switch/LED with switch mounting bracket	342724-001
*	Mouse, PS2, scroll type	335181-001
*	Battery, real-time clock	153099-001
*	Internal speaker with mounting pins	345979-001
Miscellaneous screw kit, includes:		337552-001
*	#6-32 x .025 lg pan head (262508-001) (6 ea)	
*	#6-32 x .187 lg hi top (262508-003) (6 ea)	
*	M3 x 5mm lg pan head (263585-001) (8 ea)	
*	M3 x 6.5mm lg pan head (263585-002) (8 ea)	
*	Drive Key, 128 MB	349988-001
*	Drive Key, 256 MB	344249-001

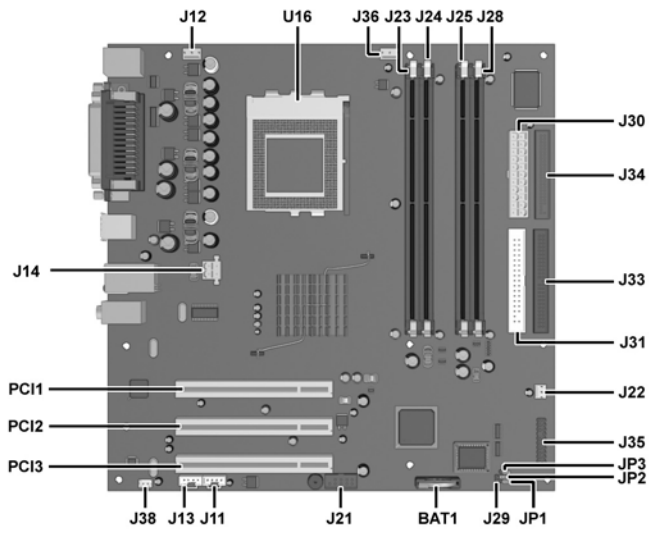
**Not shown*



Mass Storage Devices

1	Diskette drive, 3.5-inch with mounting screws	347233-001
2	40-GB\5400 RPM hard drive	335176-001
*	40-GB\7200 RPM hard drive	335392-001
*	80-GB\5400 RPM hard drive	335177-001
*	80-GB\7200 RPM hard drive	337027-001
3	48X CD-ROM drive	335389-001
*	CD RW drive, 48X/24X	335391-001
*	16X DVD drive	335390-001
*	48X/24X/48X+16X CD-RW/DVD-ROM drive	336783-001

**Not shown*



System Board Connectors and Jumpers (position of some untitled components may vary in location)

BAT1	RTC Battery	J28	DIMM Socket 4
J11	CD IN header	J29	Chassis intrusion header
J12	System fan header	J30	ATX Power connector
J13	AUX line in header	J31	Secondray IDE connector
J14	+ 12 V Connector	J33	Primary IDE connector
J15	PCI connector 3	J34	Diskette drive connector
J16	PCI connector 2	J35	Front panel header
J17	PCI connector 1	J36	CPU fan
J21	Front USB header	J38	Mono out connector
J22	Chassis fan header	JP1*	BIOS configuration
J23	DIMM Socket 1	JP2*	FWH lock
J24	DIMM Socket 2	JP3*	CMOS clear
J25	DIMM Socket 3	U16	CPU socket

*See table below

JP1 BIOS Configuration

Status	Jumper Setting	Notes
Normal	1-2	Default
Safe	2-3	Configure
Fan Sensor	3	

JP2 FWH Lock

Status	Jumper Setting	Notes
Lock	1-2	
Unlock	2-3	Default

JP3 CMOS Clear

Status	Jumper Setting	Notes
Normal	1-2	Default
Clear	2-3	

System Hardware Interrupts

IRQ	System Function	IRQ	System Function
0	Timer Interrupt	8	Real-Time Clock
1	Keyboard	9	Unused
2	Interrupt Controller Cascade	10	Unused, available for PCI
3	Serial Port (COM B)	11	Unused, available for PCI
4	Serial Port (COM A)	12	Mouse
5	Unused, available for PCI	13	Coprocessor
6	Diskette Drive	14	Primary ATA (IDE) Controller
7	Parallel Port (LPT 1)	15	Secondary ATA (IDE) Controller

Establishing a Password

1. Turn on or restart the computer. If you are in Windows, click Start > Shut Down > Restart the computer.
2. When the F10 Setup message appears in the lower-right corner of the screen, press the F10 key. Press Enter to bypass the title screen, if necessary. If you do not press F10 when prompted, a restart will be necessary.
3. Select Password Option, then select Change Supervisor Password and follow the instructions on the screen. You may also want to establish the Password check at this time. This will allow you to specify when the password will be required.
4. Before exiting, click Save Settings and Exit.

Changing a Password

1. Turn on or restart the computer. If you are in Windows, click Start > Shut Down > Restart the Computer. To change the setup password, run Computer Setup.
2. When the key icon appears, type your current password, a slash (/) or alternate de-limiter character, your new password, another slash (/) or alternate delimiter character, and your new password again as shown:

   current password/new password/new password.

   NOTE: Type the new password carefully since the actual characters do not appear on the screen.
3. Press the enter key.
4. The new password will take effect the next time the computer is restarted.

Deleting a Password

1. Turn on or restart the computer. If you are in Windows, click Start > Shut Down > Restart the Computer. To delete the setup password, run Computer Setup (F10).
2. When the key icon appears, type your current password followed by a slash (/) or alternate delimiter character as shown. Example: currentpassword/
3. Press the Enter key.

Clearing CMOS

The computer's configuration (CMOS) may occasionally be corrupted. If it is, it is necessary to clear the CMOS memory using by performing the following procedure:

CAUTION: The power cord must be disconnected from the power source before changing the jumper setting. (NOTE: All LEDs on the board should be OFF). Failure to do so may damage the system board

1. Turn off the computer and any external devices, then disconnect the power cord from the power outlet.
2. Remove the access panel.
3. Locate the JP3 CMOS jumper and move the jumper from pins 1-2 to pins 2-3. Keep the jumper there for 5 seconds.
4. Replace the jumper on pins 1-2.
5. Replace the access panel.
6. Connect the power cord to the power outlet.
7. Turn on the computer, allow it to start. Run the Computer Setup Utility to reconfigure the system.

   NOTE: Clearing CMOS clears all passwords.

Diagnostic LEDs

LED	Color	LED Activity	State/Message
Power	Green	On	(S0) Computer on
Power	Green	1 blink every 2 seconds	(S1) Normal Suspend Mode
Power	Green	1 blink every 2 seconds	(S3) Suspend to RAM
Power	Clear	Off	(S4) Suspend to Disk (if applicable)
Power	Clear	Off	(S5) Computer off
Power	Red/Green	Red when flashing ROM; Green 1 blink every second when user can restart	Boot block recovery w/Embedded Video
Power	Red	1 blink every second for 2 seconds	CPU thermal shutdown
Power	Red	1 blink every second for 5 seconds, then 2 second pause. 5 beeps.	No memory installed
Power	Red	1 blink every second for 6 seconds, then 2 second pause. 6 beeps.	Graphics card error
Power	Red	1 blink every second for 7 seconds, then 2 second pause. 7 beeps.	System board failure
Hard Drive	Green	Blinking	Hard drive activity

Computer Setup (F10) Utility Features (not all features may be available)

System Information	Product Name System Chipset Type BIOS Version BIOS Release Date Processor Type Processor Speed CPU ID L1 Cache Size L2 Cache Size	Memory Bank 0 Memory Bank 1 Total Memory FSB Speed Ratio Status Rastio CMOS Setting DDR Frequency MAC Address
Standard CMOS Setup	Set Time System Date Set Floppy Auto Detect Primary IDE Master drive	Auto Detect Primary IDE Slave drive Auto Detect Secondary IDE Master drive Auto Detect Secondary IDE Slave drive
Advanced CMOS Setup	Boot Device Priority POST Delay Time (in seconds) System Keyboard	APIC ACPI SCI IRQ Hyper-Threading Technology Internal Graphics Mode Select
Power Management Setup	ACPI Standby State Restore on AC/Power Loss Resume on Ring Resume on PME	
Peripheral Setup	OnBoard LAN OnBoard LAN Chip Boot ROM Init. Graphics Adapter Priority USB Controller	USB 1.1 Device Legacy Support OnBoard Serial Port OnBoard Parallel Port
Hardware Monitor	CPU Warning Temperature CPU Shutdown Temperature System Warning Temperature System Shutdown Temperature CPU Temperature System Temperature CPU FAN Speed Chassis FAN Speed	CPU VID Vccp +1.5V +2.5V +3.3V +5.0V +12.0V HVcc (+3.3VSB)
Password Option	Change Supervisor Password Password Status	Password Check
Load Default Settings		
Save Settings and Exit		
Exit Without Saving		

Note: See Computer Setup (F10) Utility Guide on the Documentation Library CD.