# HP Compaq Business Desktop d220/d230 Microtower Models

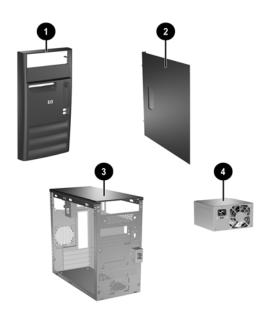
Illustrated Parts Map

Celeron and Pentium Processors









# System Unit

-,		
1	Front bezel with diskette drive bezel, Carbonite/Silver (See Miscellaneous parts for kit contents	337555-001
2	Access panel (left or right side) (See Miscellaneous parts for kit contents	337555-001
3	Chassis	not spared
4	Power supply, PFC	335183-001
*	Power supply, non-PFC	335182-001

<sup>\*</sup> Not shown



## Mass Storage Devices

1	Diskette drive, 3.5-inch	336218-001
2	40-GB\5400 RPM hard drive	335176-001
*	40-GB\7200 RPM hard drive	335392-001
*	80-GB\5400 RPM hard drive	334177-001
*	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	335390-000
*	48X/24X/48X+16X CD-RW/DVD-ROM drive	336783-001

<sup>\*</sup>Not shown

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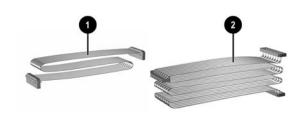
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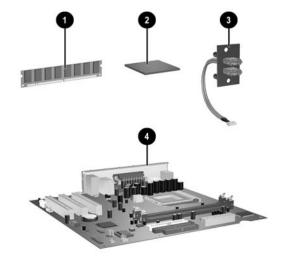
# Cables

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

<sup>\*</sup>Not shown

# Keyboards (not illustrated)

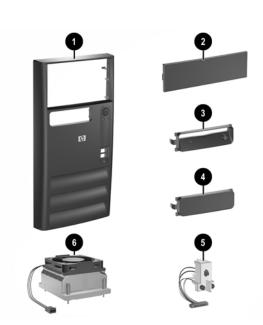
Keyboard, PS2		335192-xxx		
Brazil	-201	Latin American Spanish	-161	
French Canadian	-121	Peoples Republic of China	-AA1	
International	-B31	Taiwanese	-AB1	
Japanese	-291	Thai	-281	
Korean	-AD1	U.S.	-001	



#### **Standard and Optional Boards**

Μe	emory modules	
1	128 MB/266 MHz FSB	285648-001
*	256 MB/266 MHz FSB	285649-001
*	512 MB/266 MHz FSB	285650-001
*	128 MB/333 MHz FSB	314795-001
*	256 MB/333 MHz FSB	314793-001
*	512 MB/2333 MHz FSB	314796-001
Int	el Processors with alcohol pad and thermal grease	
2	Celeron 1.8 GHz processor	288692-001
*	Celeron 2.0 GHz processor	309578-001
*	Pentium 1.8 GHz processor	306779-001
*	Pentium 2.4 GHz processor	288689-001
*	Pentium 2.66 GHz processor	305579-001
*	Pentium 2.8 GHz processor	333487-001
*	Pentium 2.66 GHz processor, C1 (VID)	333486-001
*	Pentium 2.8 GHz processor, C1 stepping	305051-001
3	Front I/O PCA with cable	342725-001
Sy	stem board with alcohol pad and thermal grease	•
*	System board with AGP socket	335187-001
4	System board without AGP socket	355186-001
Ot	her boards	·
*	Lucent 56K PCI Win modem	239411-001

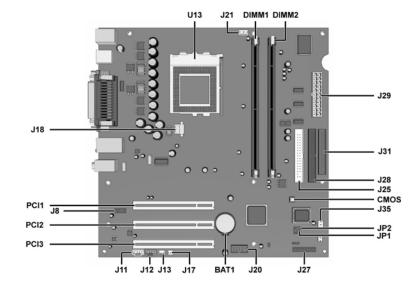
<sup>\*</sup> Not shown #Spared with alcohol wipe and thermal grease



## Miscellaneous Parts

IVIIS	cellaneous Parts	
Fro	nt bezel kit, carbonite and silver, includes:	337555-001
1	Front bezel	•
2	5.25" drive bezel blank with metail shield	
3	Diskette drive bezel	
4	3.55" drive bezel blank with metail shield	
*	Side access panel (see item 2 in System unit)	
5	Power switch/LED with switch mounting bracket	342724-001
6	Heatsink with alcohol pad and thermal grease	335184-001
*	Air baffle (2 piece) with mounting screws	337553-001
*	Rear I/O shield	337554-001
*	Mouse, PS2, scroll type	335181-001
*	Mouse, PS2, scroll type	323614-001
*	Mouse, optical	323617-001
*	Battery, real-time clock	153099-001
Mis	cellaneous screw kit, includes:	337552-001
*	#6-32 x .025 lg an 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)	

<sup>\*</sup>Not shown



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

BAT1	Real-time-clock battery
CMOS	CMOS Reset button
DIMM1	Memory socket 1
DIMM2	Memory socket 2
J11	Aux in audio
J12	CD in audio
J13	Wake on LAN
J17	System fan
J20	Front side USB
J21	CPU fan
#C +-1-1 - 1-	alow.

J25	Secondary IDE connector
J27	Power/LED switch
J28	Primary IDE connector
J29	ATX Main power
J31	Diskette drive connector
J35	Chassis fan
JP1#	Processor safe mode
JP2#	Boot Block
U13	Processor socket

#See table below AGP socket not shown in this drawing

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Status	Jumper Setting	Notes
Normal	1-2	Default
Safe	2-3	
Recovery	Open	

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

## **System Hardware Interrupts**

IRQ	System Function
0	Timer Interrupt
1	Keyboard
2	Interrupt Controller Cascade
3	Serial Port (COM B)
4	Serial Port (COM A)
5	Unused, available for PCI
6	Diskette Drive
7	Parallel Port (LPT 1)

IRQ	System Function
8	Real-Time Clock
9	Unused
10	Unused, available for PCI
11	Unused, available for PCI
12	Mouse
13	Coprocessor
14	Primary ATA (IDE) Controller
15	Secondary ATA (IDE) Controller

#### 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.
- Remove the access panel.
- Locate the switch CMOS and press the button, holding it down for 5 seconds. 3.
- 4. Replace the access panel.
- Connect the power cord to the power outlet.
- 6. Turn on the computer, allow it to start.

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	System S/N 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		
Standard CMOS Setup	Set Time and Date Set Floppy IDE Devices Auto Detect		
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 LAN 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 Support		
Hardware Monitor	CPU & System Temperature CPU & Chassis FAN Speed CPU & System Power Voltage		
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.