hp compaq d330 Series Personal Computer

illustrated parts map
microtower

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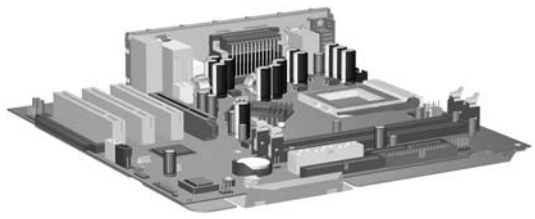
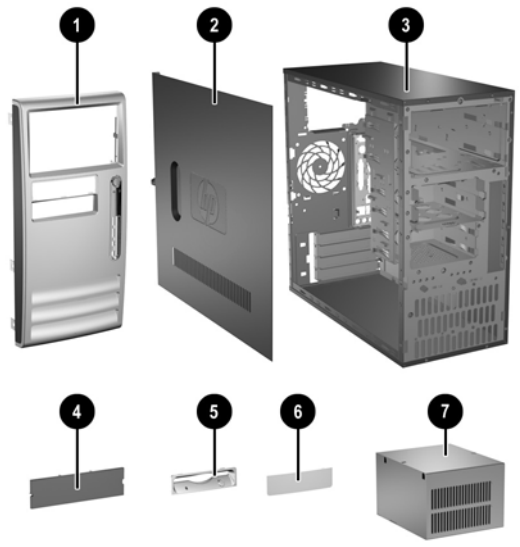
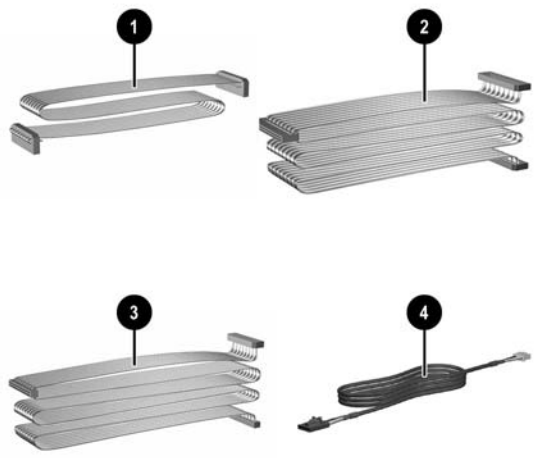






System Unit

2	Access panel	326777-001
3	Chassis	not spared
Front bezel assy includes:		326778-001
1	Front bezel frame	
4	5.25” Bezel blank	
5	Diskette drive bezel	
6	3.5” Bezel blank	
7	Power supply, PFC	308615-001

 # See Miscellaneous Parts for detailed illustrations

Mass Storage Devices (not illustrated)

1	40 GB\5400 RPM Hard drive	236921-001
*	80 GB\5400 RPM Hard drive	292208-001
*	40 GB\7200 RPM Hard drive	286692-001
*	80 GB\7200 RPM Hard drive	250185-001
*	160 GB/7200 RPM Hard drive	325306-001
2	Diskette drive with mounting screws	333505-001
3	48X CD-ROM drive with mounting screws	326773-001
*	52X CD-ROM drive with mounting screws	333969-001
*	48X/24X/48X CDRW	325308-001
*	48X/24X/48X +16X DVD/CD-RW	325309-001
*	4X DVD+R/RW	325317-001
*	16/40X DVD ROM	325313-001
*	Zip 250 Drive with mounting bracket	333504-001
*	Zip 250 drive without mounting bracket	326772-001

** Not shown*

Keyboards (not illustrated)

Smartcard, Easy Access Keyboard, USB		**323746-xxx**	
French Canadian	-121	People’s Republic of China	-AA1
Japanese	-291	Taiwanese	-AB1
Korean (Hanguel)	-AD1	Thai	-281
International	-B31	U.S.	-001
Easy Access Keyboard		**325445-xxx**	
Danish	-081	Italian	-061
German	-041	Swedish	-101
International	-B31	Swiss	-111

Cables

1	Diskette drive cable (143218-005)	257309-001
2	IDE UATA dual device, hard drive/CD-ROM data cable, 10” with pull tab (108950-037)	257047-001
3	IDE UATA dual device, hard drive/CD-ROM data cable, 14” (108950-038)	257048-001
4	CD-ROM audio cable (387527-001)	149806-001

Keyboards (not illustrated)

Easy Access Keyboard, PS/2	**323686-xxx**		
Easy Access Keyboard, USB	**324634-xxx**		
Easy Access Keyboard, wireless	**323745-xxx**		
Arabic	-171	Korean (Hanguel)	-AD1
BHCSY	-B41	Norwegian	-091
Czech	-221	People’s Republic of China	-AA1
Danish	-081	Polish**	-241
Finnish	-351	Portuguese	-131
French	-051	Russian	-251
French Canadian	-121	Slovakian	-231
French Arabic$	-DE1	Spanish	-071
German	-041	Swedish	-101
Greek	-151	Swiss**	-111
Hebrew	-BB1	Taiwanese	-AB1
Hungarian##	-211	Thai	-281
International#	-B31	Turkish	-141
International*	-021	U.K.	-031
Italian	-061	U.S.	-001
Japanese	-291		

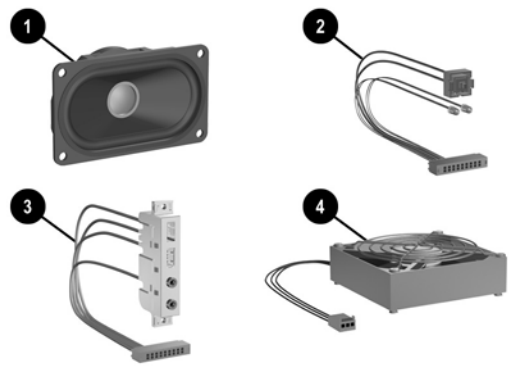
*For 324634-xxx keyboard only
**For 323686-xxx keyboard only

#not for 324634
not for 323745
$not for 323686

Standard and Optional Boards

Memory Modules		
*	128 MB/266 MHz FSB SDRAM	285648-001
*	256 MB/266 MHz FSB SDRAM	285649-001
*	512 MB/266 MHz FSB SDRAM	285650-001
*	1 GB/266 MHz FSB SDRAM	286403-001
*	128 MB/333 MHz FSB SDRAM	314795-001
*	256 MB/333 MHz FSB SDRAM	314793-001
*	512 MB/333 MHz FSB SDRAM	314796-001
*	1 GB/333 MHz FSB SDRAM	314794-001
	128 MB/400 MHz FSB SDRAM	335697-001
	256 MB/400 MHz FSB SDRAM	335698-001
	512 MB/400 MHz FSB SDRAM	335699-001
Intel Processors with thermal grease and alcohol pad		
*	Celeron 2.0 GHz processor	309578-001
*	Celeron 2.2 GHz processor	321723-001
*	Celeron 2.3 GHz processor	335136-001
*	Pentium 2.4 GHz processor	288689-001
*	Pentium 2.53 GHz processor	333485-001
*	Pentium 2.66 GHz processor	305579-001
*	Pentium 2.8 GHz processor	305051-001
*	Pentium 3.0 GHz processor	315637-001
*	Pentium 2.4 GHz processor with Hyperthreading	335812-001
*	Pentium 2.6 GHz processor with Hyperthreading	333863-001
*	Pentium 2.8 GHz processor with Hyperthreading	333864-001
*	Pentium 3.0 GHz processor with Hyperthreading	333865-001
*	Pentium 3.2 GHz processor with Hyperthreading	335813-001
1	System board with thermal grease and alcohol pad	323091-001
Graphics Controllers		
*	nVIDIA MX400, 32 M, ATX bkt	309492-001
*	nVIDIA MX440 AGP	322891-001
*	nVIDIA Quadro4 100 NVS, 32 MB	322893-001
*	DVI ADD 4-layer card, ATX & low profile bkts	325833-001
Other cards		
*	Lucent V92 Modem	239411-001
*	NIC, Intel Pro/1000 MT adapter	314901-001
*	Wireless LAN PCI Adapter (802.11)	332963-001

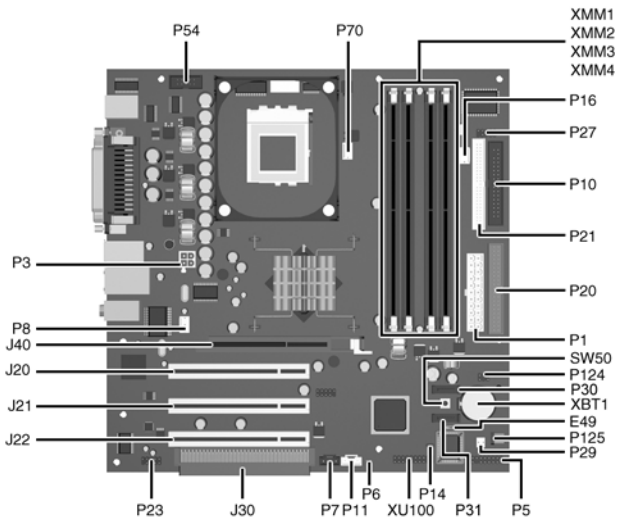
** Not shown*



Miscellaneous Parts

1	Speaker	326776-001
2	Power/LED cable with switch, LED holders and switch holder	330456-001
3	Front I/O device with cable	326775-001
4	Chassis fan	330457-001
*	Real-time clock battery	153099-001
#	Heatsink with fan, alcohol pad, and thermal grease	333866-001
*	Drive Key, 16 MB	324780-001
*	Drive Key, 64 MB	331465-001
*	Drive Key, 128 MB	331466-001
*	Return kit with buns	331249-001
*	Rubber foot (4 ea)	336445-001
*	PC-MCIA Reader	331589-001
*	Port control	335936-001
*	Hood lock solenoid with cable	336442-001
Mouse		
*	2-Button, PS/2 with scroll wheel	323614-001
*	2-Button, USB, optical with scroll wheel	323617-001
*	2-Button, wireless with scroll wheel	323616-001
*	2-Button, USB, with scroll wheel	323615-001
Miscellaneous screw kit, includes:		330458-001
*	M3 x 5mm Full slot hi top, taptite (4 ea) (263585-001)	
*	#6-32 x 1/4Hi top, taptite (4 ea) (262508-001)	
*	#6-32 x 5/16 Hi top, taptite (2 ea) (262508-002)	
*	#6-32 x 3/32 Hi top, taptite (4 ea) (262508-003)	
*	#6-32 x 3/8 Tap tite with washer (1 ea) (114399-069)	
*	#6-32 x 1/4 Thumbscrew (1 ea) (124702-004)	
*	Countersunk, flat head plastite (1 ea) (247481-001)	

**Not shown*
#See next page



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

E49	Password jumper	P21	Secondary IDE
J20	PCI slot 1	P23	Front audio/USB
J21	PCI slot 2	P27	Miulti Bay
J22	PCI slot 3	P29	SCSI LED
J30	PCI slot extender	P30	Primary Serial ATA (SATA) Port
J40	AGP slot	P31	Secondary Serial ATA (SATA) Port
P1	Main power (20 pin)	P54	Serial Port “B”
P3	CPU regulator power (4 pin)	P70	CPU fan
P5	Front panel	P124	Hood lock
P6	Internal chassis speaker	P125	Hood sensor
P7	CD audio in	SW50	CMOS button
P8	Chassis fan	XBT1	Battery
P10	Diskette drive	XMM1	Memory socket
P11	Aux audio in	XMM2	Memory socket
P14	Boot block	XMM3	Memory socket
P16	Power supply fan control	XMM4	Memory socket
P20	Primary IDE	XU100	Security

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

Computer Diagnostic LEDs (on front of computer)

LED	Color	LED Activity	State/Message
Power	Green	On	(S0) Computer on
Power	Green	1 blink every 2 seconds	(S1) Suspend Mode
Power	Green	1 blink every 2 seconds	(S3) Suspend to RAM
Power	Green	Off	(S4) Suspend to Disk (if applicable)
Power	Clear	Off	(S5) Computer off
Power	Red	1 blink followed by 2-second pause - Repeat	Power Supply failure
Power	Red*	2 blinks 1 second apart	CPU thermal shutdown
Power	Red*	3 blinks 1 second apart	CPU not installed
Power	Red*	4 blinks 1 second apart	Power supply overload (crow bar)
Power	Red*	5 blinks 1 second apart	No memory
Power	Red*	6 blinks 1 second apart	No graphics
Power	Red*	7 blinks 1 second apart	System board failure (detected prior to video)
Power	Red*	8 blinks 1 second apart	Invalid ROM
Hard Drive	Green	Blinking	Hard drive activity

*Blinking codes are repeated after a 2 second pause.

Keyboard Diagnostic LEDs, PS/2 Keyboards Only

LED	Color	LED Activity	State/Message
Num, Caps, Scroll Lock	Green	On (Rising Tone)	ROM reflashed successfully
Num Lock	Green	On	ROMPaq diskette not present, is bad, or drive not ready.*
Caps Lock	Green	On	Enter password.
Num, Caps, Scroll Lock	Green	Blink On in sequence, one at a time - N, C, SL	Keyboard locked in network mode

** Insert valid ROMPaq diskette in drive A. Turn power switch off, then on to reflash ROM. If ROM flash is successful, all three keyboard LEDs will light up, and you will hear a rising tone series of beeps. Remove diskette and turn power off, then on to restart the computer. For more information about flashing the ROM, refer to the Troubleshooting guide.*

Clearing CMOS*

The computer's configuration (CMOS) may occasionally be corrupted. If it is, it is necessary to clear the CMOS memory using switch SW50.
To clear and reset the configuration, perform the following procedure:

1. Prepare the computer for disassembly.

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

2. Remove the access panel.
3. Press the CMOS button located on the system board and keep it depressed for 5 seconds.
4. Replace the access panel.
5. Turn the computer on and run F10 Computer Setup (Setup-utility) to reconfigure the system.

*When the CMOS button is pushed or the jumper is removed, both the power-on password and the setup password become invalid because both are stored in the configuration memory. You will need to reset the passwords.

Disabling or Clearing the Power-On and Setup Passwords*

1. Turn off the computer and any external devices, and disconnect the power cord from the power outlet.
2. Remove the access panel.
3. Locate the header and jumper labeled E49.
4. Remove the jumper from pins 1 and 2. Place the jumper over pin 2 only, in order to avoid losing it.
5. Replace the access panel.
6. Plug in the computer and turn on power. Allow the operating system to start.
   NOTE: Placing the jumper on pin 2 clears the current passwords and disables the password features.
7. To re-enable the password features, repeat steps 1-3, then replace the jumper on pins 1 and 2.
8. Repeat steps 5-6, then establish new passwords.

   Refer to the Computer Setup (F10 Setup) instructions to establish new passwords.

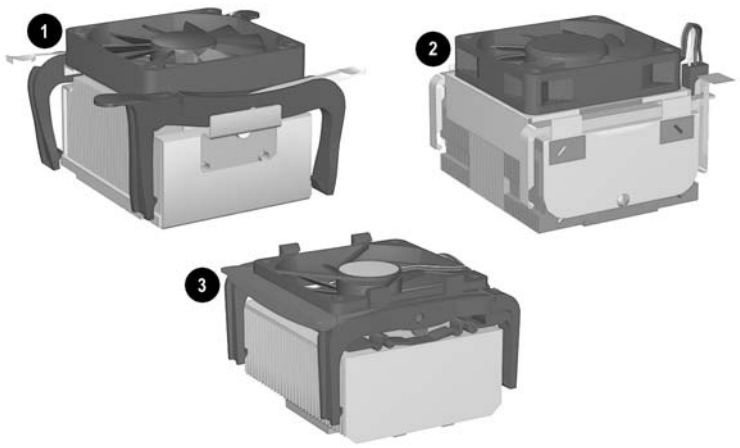
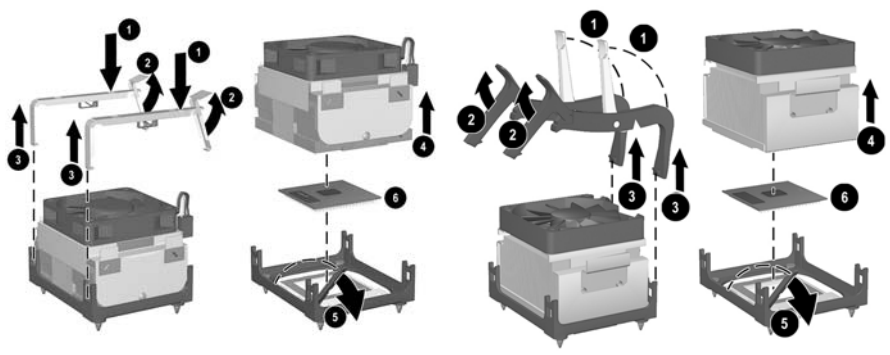
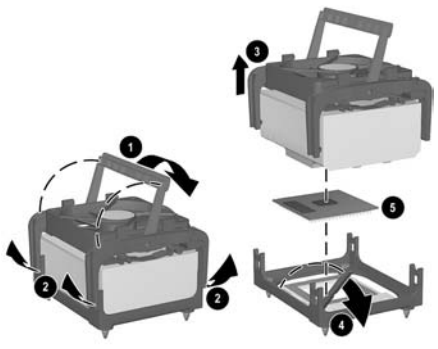
*When the CMOS button is pushed or the jumper is removed, both the power-on password and the setup password become invalid because both are stored in the configuration memory. You will need to reset the passwords.

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

File	System Information About Set Time and date	Save to Diskette Restore From Diskette Set defaults and Exit	Ignore Changes and Exit Save Changes and Exit
Storage	Device Configuration Options	IDE DPS Self-Test Controller Order	SCSI Narrow Termination Boot Order
Security	Setup Password Power-On Password Password Options Smart Cover	Smart Sensor DriveLock Master Boot Record Security Save Master Boot Record	Restore Master Boot Record Device Security Network Service Boot System IDs
Advanced	Power-On Options Onboard devices	PCI Devices Bus Options	Device Options PCI VGA Configuration

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

Interchangeable Heatsinks



Heat Sink Removal