Compaq Evo D510 Ultra-Slim Desktop Personal Computer

Illustrated Parts Map

Compaq Evo Desktop D510
Series of Personal Computers

COMPAQ

June 2002

Part Number 300805-001

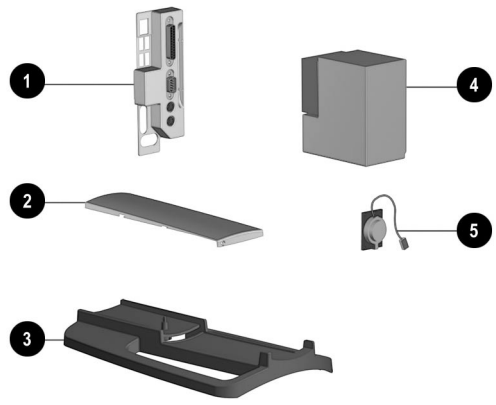
Spare Part Number 300870-001

Documentation and Packaging (not illustrated)

Illustrated Parts Map (300805-001)	300870-001
Service Reference Guide	259968-001
Quick Troubleshooting Guide	153837-001
Return kit with buns	277460-001

Keyboards (not illustrated)

Keyboard, Easy Access, PS2	**271122-xxx**
United States	-001
French Canadian	-121
Japanese (Kanji)	-191
Latin American Spanish	-161
PRC Chinese	-AA1
Taiwanese	-AB1
Keyboard, Easy Access, USB	**271123-xxx**
United States	-001
French Canadian	-121
Japanese (Kanji)	-191
Latin American Spanish	-161
PRC Chinese	-AA1
Taiwanese	-AB1



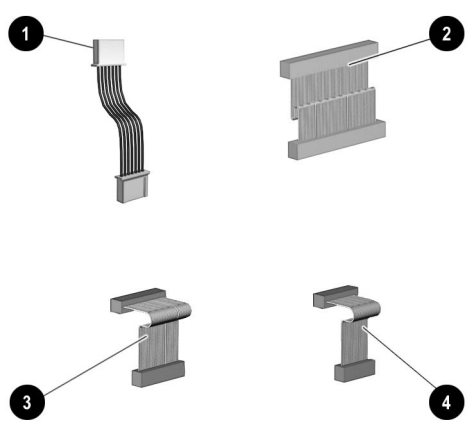
Mass Storage Devices (not illustrated)

80-GB Hard drive, 5400 RPM	292208-001
20-GB Hard drive, 5400 RPM	254451-001
20-GB Hard drive, 7200 RPM	180476-001
40-GB Hard drive, 5400 RPM	236921-001
40-GB Hard drive, 7200 RPM	202904-001
24X CD-ROM drive, MultiBay	228746-001
Diskette drive, MultiBay	241995-001
8/8/24X CD-RW drive, MultiBay	250105-001
16/10/24X CD ROM, MultiBay	286691-001
8X DVD drive, MultiBay	251292-001

System Unit

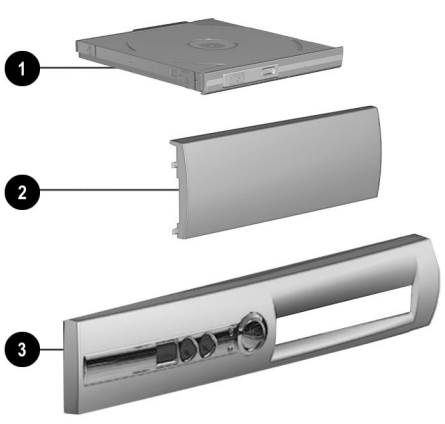
1	Access panel (238756-001) with thumbscrews	280164-001
2	Power supply	244163-001
3	Chassis	not spared
4	MultiPort blank cover (244902-001)	279937-001
5	Front bezel assembly	274663-001

**Not shown*



Cables

1	MultiPort cable (238744-001)	279936-001
2	Hard drive cable	274665-001
3	I/O panel cable for Power, LED, and Audio	274664-001
4	I/O Panel cable for USB	274662-001



Miscellaneous Parts

1	Legacy module	269175-001
2	MultiPort 802.11b Wireless LAN	230340-001
2	MultiPort Bluetooth Wireless LAN	230336-001
3	Mounting stand	not spared
4	Power supply	244163-001
*	Heatsink	not spared
5	Speaker	274307-001
*	2-Button mouse, scroll type, PS2	237241-001
*	2-Button mouse, scroll type, USB	164999-001

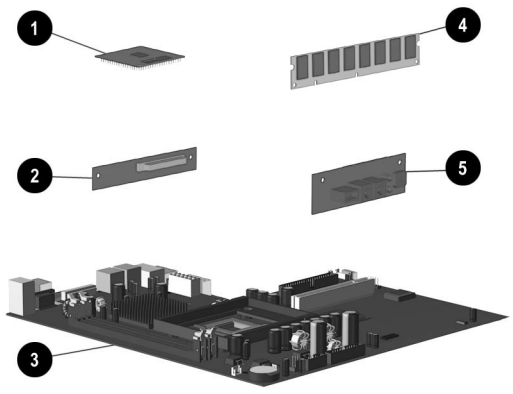
**Not shown*

Miscellaneous Screw Kit (not illustrated)

Miscellaneous Screw Kit includes:		279935-001
	#6-19 x 0.5 Platsite, button head, 4 ea. (249935-001)	
	M2 x 0.4p x 3 mm Phillips head, 4 ea. (249686-001	
	#6-32 x 0.5 TT, FSLT, Hi Top, 4 ea. (262508-005)	
	#6-32 x.188 Taptite shoulder screw, 4 ea. (242966-001)	
	Tamper resistant wrench (296770-002)	

Plastics

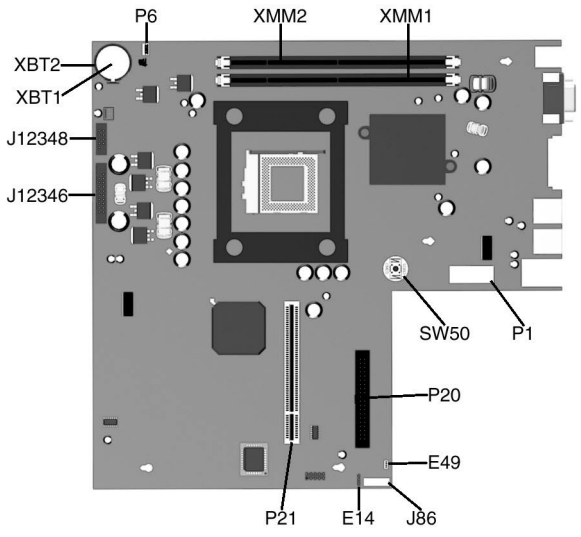
1	MultiBay blank	231612-001
2	MultiPort blank cover	279937-001
3	Front bezel assembly	274663-001



Standard and Optional Boards

1	1.7 GHz Processor with alcohol cleaning pad and thermal interface	288240-001
2	MultiBay backplane board	269171-001
3	System Board	283974-001
4	128 MB DDR Memory module	285648-001
*	256 MB DDR Memory module	285649-001
	512 MB DDR Memory module	285650-001
5	USB/Audio board	269174-001

**Not shown*



Connectors and Jumpers

E14	Boot block flash	P20	Primary IDE
E49	Password Jumper	P21	MultiBay riser
J12346	Front I/O - Power button, LED, audio	SW50	Clear CMOS switch
J12348	Front USB	XBT1	Battery
J86	Multiport	XBT2	Battery socket
P1	Power supply connector	XMM1	DIMM 1
P6	Internal speaker	XMM2	DIMM 2
*Factory default = Jumpers 1 & 2			

System Hardware Interrupts

IRQ	System Function	IRQ	System Function
0	Interval Timer	8	Real-time clock
1	Keyboard	9	User available
2	Interrupt Controller Cascade	10	Not used
3	Not used	11	USB/Audio
4	COM A (Serial Port)	12	Mouse
5	Network Interface Controller (NIC)	13	Coprocessor
6	Diskette Drive	14	Primary ATA (IDE) Controller
7	Not used	15	Secondary ATA (IDE) Controller (MultiBay)

Keyboard LEDs (Not applicable for USB keyboards)

LED	Color	LED Activity	State/Message
Num Lock	Green	Flashing (Beeps - 1S, 2L)	Memory error
Caps Lock	Green	Flashing (Beeps - 1L, 2S)	No video
Scroll Lock	Green	Flashing (Beeps - 2L, 1S)	System board failure, prior to video
Num, Caps, Scroll Lock	Green	Flash On-Off 2 times (Beeps - 1L, 3S)	Invalid system ROM detected. ROM forces reflash.
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.*

Computer LEDs

LED	Color	LED Activity	State/Message
Power	Green	On	(S0) Computer on
Power	Green	1 blink every 2 second	(S1) Normal Suspend Mode
Power	Green	1 blink every 2 seconds	(S3) Suspend to RAM
Power	None	Off	(S4) Suspend to Disk (if applicable)
Power	None	Off	(S5) Computer off
Power	Red	2 blinks 1 second apart, followed by 2-second pause - Repeat	CPU thermal shutdown
Power	Red	On	CPU not installed
Power	Red	1 blink every 1 second	ROM error
Power	Red	1 blink every 2 seconds	Power supply crow bar
Hard Drive	Green	Blinking	Hard drive activity

System Board Diagnostic Lights[1]

Main Power Switch Status	3.3V_Aux LED	5V_Aux/PSON LED	Power Button LED
OFF[2]	ON	ON[4]	OFF
ON[3]	ON	OFF[5]	ON

1. ON and OFF state of LEDs apply only to a good, working system board with AC power applied to the power supply.
2. Power LED on front of computer is OFF.
3. Power LED on front of computer is ON (Green).
4. 5V_Aux is ONN.
5. PSON is active = power supply turned ON.

Clearing CMOS

The computer's configuration (CMOS) may occasionally be corrupted. If it does, it is necessary to clear the CMOS memory using push button 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. Failure to do so may damage the system board

2. Remove the access panel.
3. Press the CMOS button. Keep the button depressed for 5 seconds.
4. Replace the right access panel, then reconnect the power cable.
5. Turn the computer on.
6. Run F10 Computer Setup to reconfigure the system.

Pushing the CMOS button will reset CMOS values to factory defaults and will erase any customized information including asset numbers and special settings.

Disabling or Clearing the Power-On 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 two access panels.
6. Plug in the computer and turn on power to all equipment. Allow the operating system to start. This 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.

Setting the Setup and Power-On Passwords

A. Setting the Setup Password provides access protection for the Computer Setup utility.

1. Turn on the computer. When the F10=Setup prompt appears in the right corner of the screen, press F10.
2. Select “Setup Password.
3. Under the Security column, select Setup Password.
4. Follow the online instructions and save the settings before exiting.
5. The password will be enabled after exiting the utility and rebooting the computer.

B. Setting a Power-On Password

1. Turn on the computer. When the F10=Setup prompt appears in the right corner of the screen, press F10.
2. Select “Power-On Password,” follow the online instructions and save the settings before exiting.
3. The password will be enabled after exiting the utility and rebooting the computer.