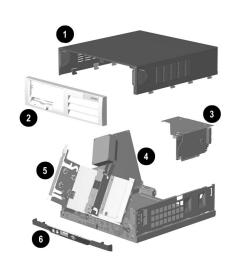
Compaq Evo Deskpro D510 Small Form Factor Pentium Models

Illustrated Parts Map

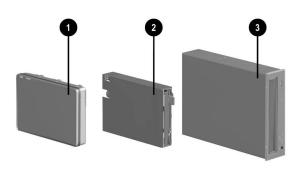


COMPAQ



System Unit

1	Computer cover	Not spared 262011-001	
2	Front bezel assembly, complete		
*	Front bezel assembly, complete, EMEA only (Blue Angel)	288694-001	
3	Expansion card cage	Not spared	
4	Power supply, PFC, dual voltage	274427-001	
5	Chassis assembly with drive cage (reference only)	Not spared	
6	Front trim (below front bezel)	273034-001	
*	Front trim (below front bezel), CKK only	302605-001	



Mass Storage Devices

	maco otorago borroco		
1	20-GB, UATA, 100/7200 Quiet hard drive	180476-001	
*	20-GB, UATA, 100/5400 Quiet hard drive	254451-001	
*	20-GB, UATA, 100/4200, MultiBay	273407-001	
*	40-GB UATA 100/7200 Quiet hard drive	202904-001	
*	40-GB UATA 100/5400 Quiet hard drive	236921-001	
*	80-GB, UATA 100/7200 hard drive	250185-001	
2	Diskette drive, 3.5-inch, buttonless	278644-001	
3	16/10/40X CD-RW/DVD-ROM drive, carbon	281749-001	
*	40/10/40X CD-RW drive, carbon	286711-001	
*	16/10/24X CD-RW drive, carbon	286691-001	
*	48X CD-ROM drive, carbon	232320-001	
*	24X CD-ROM drive	228746-001	
*	16X DVD-ROM drive, carbon	278647-001	
*	8X DVD-RW MultiBay drive	251292-001	
*	DiskOnKey, 8-MB	249911-001	

*Not shown

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June 2002

Document Part Number 292401-001



Spare Part Number 302343-001





Cables

-	745100			
Ca	ble kit, includes:	192263-001		
2	CD-ROM audio cable, 12 in. (387527-002)	1		
*	CD data cable (108950-017) (not this product)			
Other Cables				
1 Diskette drive cable (168999-004) 289048		289048-001		
3 Hard drive data cable (108950-035) 258209		258209-001		
4	MultiBay drive data cable (277521-001)	302604-001		
*	CD-ROM drive data cable (108950-039)	289049-001		
*	Solenoid cable	265954-001		

^{*}Not shown

Documentation and Packaging (not illustrated)

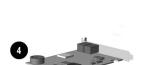
Service Reference Guide	259968-001
Quick Troubleshooting Guide	153837-001
Illustrated Parts Map	302343-001
Return kit	266280-001

Keyboards (not illustrated)

PS2, Easy Access		271122-001 271124-001	
USB, Smart Card, Eas	y Access		
Arabic	-171	Korean	-KD8
Belgian	-181	International	-B31
Brazilian Portuguese	-201	Latin American Spanish	-161
BHCSY*	-B41	Norwegian	-091
Chinese	-AA1	Polish	-241
Czech	-221	Portuguese	-131
Danish	-081	Russian	-251
Dutch/Netherlands	-331	Slovakian	-231
Finnish	-351	Spanish	-071
French	-051	Swedish	-101
French Canadian	-121	Swiss	-111
German	-041	Taiwanese	-AB1
Greek	-151	Thai	-281
Hebrew	-BB1	Turkish	-141
Hungarian	-211	United Kingdom	-031
Italian	-061	U.S.	-001
Japanese	-191		

^{*} Bosnia-Herzegovina, Croatia, Slovenia, and Yugoslavia

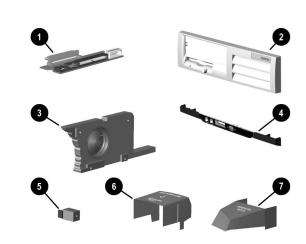




Standard and Optional Boards

1	System board	277977-001		
2	Memory module, 128 MB, DDR	285648-001		
*	Memory module, 256 MB, DDR	285649-001		
*	Memory module, 512 MB, DDR	285650-001		
3	Riser board	252298-001		
4	PCA, 10/100, IPSEC, NIC, Intel	215774-001		
*	NIC, 3COM	253951-001		
*	Modem, PCI v92	239411-001		
Pen	tium Celeron Processor with alcohol pad and thermal	grease		
*	1.7 GHz / 128K cache, 400 FSB	288691-001		
*	1.8 GHz / 128K cache, 400 FSB	288692-001		
Pen	Pentium P4 Processor with alcohol pad and thermal grease			
*	1.7 GHz / 256K cache, 400 FSB	252919-001		
*	1.8 GHz / 256K cache, 400 FSB	255435-001		
*	1.9 GHz / 256K cache, 400 FSB	255436-001		
*	2.0 GHz / 512K cache, 400 FSB	273051-001		
*	2.2 GHz / 512K cache, 400 FSB	273052-001		
*	2.4 GHz / 512K cache, 400 FSB	283925-001		
*	2.26 GHz / 512K cache, 533 FSB	288688-001		
*	2.4 GHz / 512K cache, 533 FSB	288689-001		
*	2.53 GHz / 512K cache, 533 FSB	288690-001		
Gra	Graphics Solutions			
*	nVIDIA P60-C04 graphics card, NV 11, 64 MB memory, with LPX bracket	289593-001		
*	nVIDIA P60-C04 graphics card, NV 11, 64 MB	279777-001		

^{*} Not shown

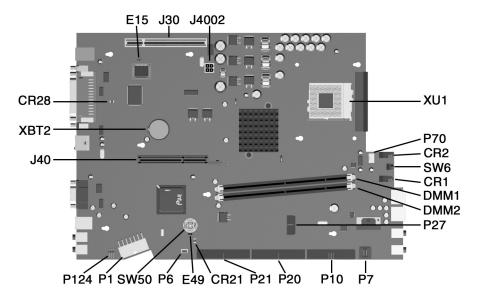


283985-001

Miscellaneous Parts 1 PCA, MultiBay

	1			
2	Front bezel assembly, complete	262011-001		
*	Front bezel assembly, complete, EMEA only (Blue Angel)	288694-001		
3	Speaker	249968-001		
4	Front trim (below front bezel)	273034-001		
*	Front trim (below front bezel), CKK only	302605-001		
5	Solenoid, 2-coil	201485-001		
Air	baffles, include:	293324-001		
6	Air baffle, D-HS (250805-002)	•		
7	Air baffle, D-HS-2 (250805-004)			
Pla	stics kit, includes:	257051-001		
*	* Bezel blank (166775-002)			
*	Cable clip (172948-001) (not this product)			
*	Power switch spring (166837-002) (not this product)			
*	LED holder (112589-001) (not this product)			
*	Power switch holder (245154-001) (not this product)			
Oth	ther Parts			
*	Heatsink with alcohol pad 254286-0			
*	Chassis fan assembly	289051-001		
*	Rubber foot (4 ea)	266051-001		
*	Labtec Spin-22 speakers, Japan	223492-291		
*	Mouse, carbon, 2-button with ratchet wheel	237241-001		
	1			

^{*}Not shown

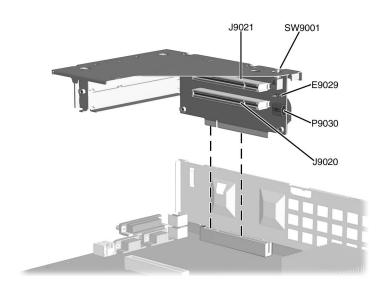


System Board Connectors and Jumpers

CR1	Power LED (front of computer)
CR2	HD LED (front of computer)
CR21	3.3V AUX LED (see sticker for location)
CR28	+5V AUX (ON) / PSON LED (OFF) (see sticker for location)
DMM1	DIMM 1
DMM2	DIMM 2
E15	Boot block
E49	Password jumper
J30	Riser board connector
J40	AGP socket*
J4002	CPU power
P1	Power supply
* Note: AC	P socket has a different front retainer latch the

P6	Speaker
P7	CD ROM audio
P10	Diskette
P20	Primary ATA
P21	Secondary ATA
P27	MultiBay header
P70	Chassis fan
P124	Hood lock
SW6	Power button (front of computer)
SW50	CMOS reset
XBT2	Battery
XU1	Processor socket

 $^{{\}it *Note: AGP\ socket\ has\ a\ different\ front\ retainer\ latch\ that\ requires\ rotation\ before\ the\ card\ can\ be\ removed.}$



Riser Board Connectors and Jumpers

E9029	SCSI LED	
J9020	PCI Slot	
J9021	PCI Slot	

P9030	Aux CD audio
SW9001	Security hood switch

System Hardware Interrupts

System Function
Timer Interrupt
Keyboard
Interrupt Controller Cascade
Serial Port (COM B)
Serial Port (COM A)
Audio
Diskette Drive
Parallel Port (LPT 1)

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

System Board Diagnostic Lights¹

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

- 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.
- ${\it 3. Power LED on front of computer is ON (Green)}.$
- 4. 5V Aux is ON.
- 5. PSON is active = power supply is turned ON.

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) 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	2 blinks 1 second apart, fol- lowed 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

Keyboard Diagnostic LEDs

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	Boot block recovery failed - 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

- Remove the access panel.
- Press the SW50 button located on the system board and keep it depressed for 5 seconds.
- Replace the access panel.
- Turn the computer on and run F10 Computer Setup (setup utility) to reconfigure the system.

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

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

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

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	
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	
Power Energy Saver Timeouts Energy Saver Options	
Advanced Power-On Options Onboard devices PCI Devices Bus Options Devise Options PCI VGA Configuration	

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