

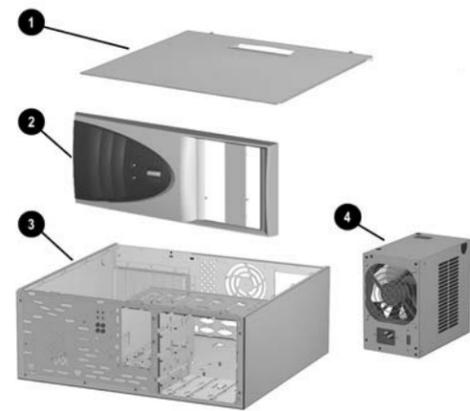
Compaq Evo Workstation

W6000

Illustrated Parts Map



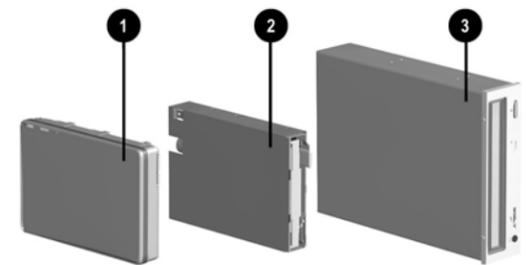
COMPAQ



System Unit

1	Access panel	Not spared
2	Front bezel assembly	239066-001
3	Chassis/basepan	Not spared
4	Power supply, PFC, dual voltage	202348-001

*Not shown



Mass Storage Devices

1	18.2-GB U3 SCSI hard drive (10000 rpm)	229737-001
*	18.2-GB U3 SCSI hard drive (15000 rpm)	194585-001
*	18.4-GB U3 SCSI hard drive (15000 rpm)	293127-001
*	36.2-GB U3 SCSI hard drive (10000 rpm)	192197-001
*	20-GB UATA hard drive (7200 rpm)	180475-001
*	40-GB QUIET hard drive (10000 rpm)	202904-001
*	80-GB UATA hard drive (7500 rpm)	250185-001
*	32X Max CD-RW drive, carbon	232315-001
*	CD-RW drive, 32X/10X/40X, S2, carbon	283919-001
*	DVD-RAM, drive, 4.7-GB, carbon	232318-001
*	Zip drive, 250-MB, carbon	232317-001
2	Diskette drive, 3.5-inch, buttonless, carbon	237180-001
3	48X CD-ROM drive, carbon	232320-001

*Not shown

Documentation and Packaging (not illustrated)

Illustrated Parts Map	235551-001
Service Reference Guide	259968-001
Quick Troubleshooting Guide	153837-001
Shipping box with buns	244890-001

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Document Number
235178-005



Spare Part Number
235551-001



Cables

1	CD-ROM audio cable, 21"	149806-001
2	Diskette drive cable, 18"	221186-001
*#	IDE dual connection, 18", 13.75" between system board and connector 1	225881-001
*#	IDE dual connection, 18", 13.75" between system board and connector 1	239064-001
*	IDE dual connection, 18", 12" between system board and connector 1	224484-001
*	SCSI cable w/twist, three-device	158277-001
*	G200 Quad, analog cable 12" lg, 2 ea. 168754-001 with retaining washer (for use with Matrox G200 MMS graphics board #171975-001)	171976-001
*	Power switch assembly, includes power switch and cable, and switch mounting bracket	166925-001
*	Cable kit, contains:	254551-001
*	G200 quad, analog cable 12" lg (168754-001)	
*	G200 quad, digital cable 72" lg (168754-002)	

Cable kit includes 166879-002

*	Diskette drive cable with twist, 11" (143218-001)	
*	40-position IDE data cable, 12.5" (105876-001)	
*	IDE Ultra ATA dual device, hard drive/CD-ROM cable, 18", with pull tab, center polarization (108950-007)	
*	Dual-LED power cable (1 ea.) (387727-001)	
*	Switch mounting bracket (3 ea.) (1666777-001)	
*	Diskette drive/tape cable, with twist, 34" (356107-001)	
*	Diskette drive cable with twist, 11" (387795-001)	

* Not shown

Cables are interchangeable

Miscellaneous Screw Kit (not illustrated)

Miscellaneous Screw Kit, includes:	179180-001
6-32 x 1/4 hi-top, thread-forming screw with serrations (4 ea.) (192308-001)	
6-32 x 3/16 hi-top, thread-forming screw with serrations (5 ea.) (192308-003)	
6-32 x 3/16 buttonhead tamper-resistant, taptite screw with serrations (4 ea.) (296769-002)	
6-32 x 5/16 hi-top, taptite screw (5 ea.) (109834-568)	
6-19 x 5/16 panhead, plastite screw (5 ea.) (101346-068)	
6-19 x 5/16 hi-top, taptite screw with captive washer (4 ea.) (114399-069)	
6-19 x 1/2 Panhead, plastite screw (4 ea.) (101346-071)	
M3 x 5mm, hi-top, taptite screw with serrations (3 ea.) (247348-001)	
Thumbscrew, molded cap (179333-002)	

Standard and Optional Boards (not illustrated)

System Board, 2P (also replaces 239059-001)	254545-001
Intel Xeon Processor	
1.4-GHz with 256 KB cache	239060-001
1.5-GHz with 256 KB cache	239061-001
1.7-GHz with 256 KB cache	239062-001
2.0 GHz with 256 KB cache	253072-001
1.8 GHz with 512 KB cache #	278543-001
2.0 GHz with 512 KB cache #	278544-001
2.2 GHz with 512 KB cache #	278545-001
2.4 GHz with 512 KB cache #	284645-001
2.6 GHz with 512 KB cache #	303015-001
2.8 GHz with 512 KB cache#	307548-001
Heatsink with alcohol pad and thermal grease	
to 1.8 GHz (replaces 239111-001)	255354-001
2.0 GHz and above	284440-001
Memory Module, 800MHz	
RDRAM, 128-MB	157112-001
RDRAM, 256-MB	161454-001
RDRAM, 512-MB	239067-001
CRIMM (2 ea.)	158265-001
Graphics Controllers	
nVidia Quadro2 Pro, 64-MB, AGP/AT	225829-001
nVidia Quadro2 MXR Graphics Board	221492-001
Matrox G200 MMS Graphics Board	171975-001
Matrox 450 32MB AGP Graphics Board	203626-001
Matrox G550 AGP Graphics Board	253275-001
Network Interface Controller (NIC) 10/100	118042-001
PCI USB Controller (NA only)	291001-001
PCI USB Controller (Rest of World)	300866-001

Requires 1.15 or later system BIOS to recognize the cache.

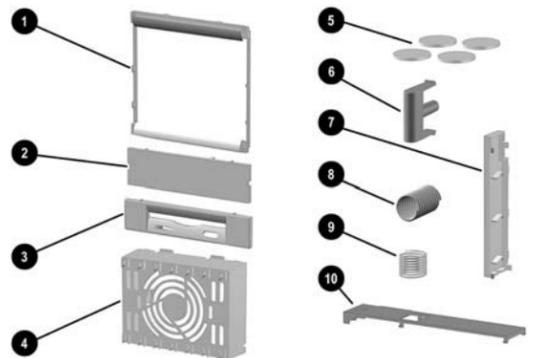
Miscellaneous Parts (not illustrated)

Diskette drive adapter (for bay 3 use only)	239063-001
Fan, 92-mm	239065-001
Baffle and baffle insert	260613-001
Battery	153099-001
Mouse, 3-button, carbon	232616-001
Mouse, carbon	165000-001

Keyboards (not illustrated)

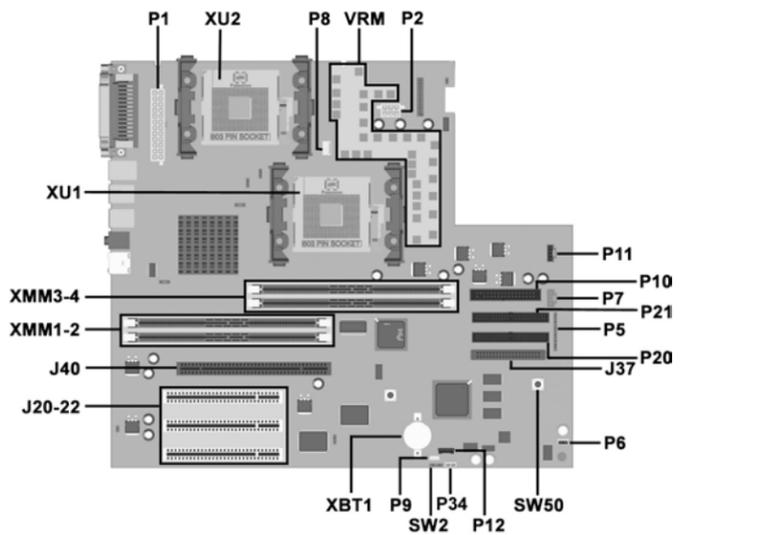
Easy Access Keyboard		164996-xxx	
Arabic	-171	International	-B31
Belgian	-181	Latin American Spanish	-161
Brazilian	-201	Norwegian	-091
*BHCSY	-B41	Polish	-B31
Czech	-221	Portuguese	-131
Danish	-081	Russian	-251
Dutch/Netherlands	-B31	Slovakian	-231
Finnish	-351	Spanish	-071
French	-051	Swedish	-101
French Canadian	-121	Swiss	-111
German	-041	Taiwanese	-AB1
Greek	-151	Thai	-281
Hungarian	-211	Turkish	-141
Italian	-061	UK	-031
Japanese	-191	US	-001
Korean (Hanguel)	-AD1		

* Bosnia-Herzegovina, Croatia, Slovenia, and Yugoslavia



Miscellaneous Plastics Kit (* not illustrated)

Miscellaneous Plastics Kit, includes:	166878-001
1	Panel, sub (166835-001) (not this product)
2	Bezel, blank (166775-001) (not this product)
3	Diskette drive bezel (166776-001)
4	Card guide (166778-001)
5	Foot, rubber (4 ea.) (166939-002) (not this product)
6	Button, power (166774-001) (not this product)
7	Drivelock, DT (166779-001)
8	Spring, power button (166837-001) (not this product)
9	Springs, drivelock (2 ea.) (166837-002)
10	Drivelock, MT (166780-001)
*	Retention mechanism (2 ea.) (350767-001)
Miscellaneous Plastics Kit, includes:	238687-001
1	Panel, sub (166835-012)
2	Bezel, blank (166775-002)
5	Foot, rubber, (8 ea) (166939-004)



Connectors and Jumpers

J20-22	Three 32-bit, 33-MHz PCI Sockets	P12	Alert-On-LAN (AOL) Connector
J37	Ultra 160 SCSI Connector	P20	Primary Ultra ATA Connector
J40	AGP Pro Socket	P21	Secondary Ultra ATA Connector
P1	24-Pin Power Supply Connector	P34	Power-On Password Enable Jumper
P2	6-Pin Power Supply Connector	SW2	Smart Cover Sensor
P5	Power Switch Connector	SW50	CMOS Reset Switch
P6	Internal Speaker Connector	VRM	Embedded Voltage Regulator Module
P7	Audio Connector	XBT1	Battery
P8	Rear Fan Connector	XMM1-2	Channel A RIMM Socket
P9	Wake-On-LAN Connector (WOL)	XMM3-4	Channel B RIMM Socket
P10	Diskette Drive Connector	XU1	Primary Processor Socket
P11	CD-ROM Audio Connector	XU2	Secondary Processor Socket

System Hardware Interrupts (PIC Mode)

IRQ	System Function	IRQ	System Function
0	Timer Interrupt	8	System CMOS/Real-Time Clock
1	Keyboard	9	Unused
2	Unused	10	Standard USB controller 2 Intel PRO/100 VM embedded NIC
3	Serial Port (COM 2)	11	Adaptec AIC-7892 embedded SCSI controller Standard USB controller 1
4	Serial Port (COM 1)	12	Mouse
5	Video Controller Creative ES1371/1373 embedded audio	13	Numeric Data Processor
6	Diskette Drive	14	Primary ATA (IDE) Controller
7	Parallel Port (LPT 1)	15	Secondary ATA (IDE) Controller

System Hardware Interrupts (IO APIC Mode)

IRQ	System Function	IRQ	System Function
0	System Timer	12	Mouse
1	Keyboard	13	Numeric Data Processor
2	Unused	14	Primary IDE Controller
3	Serial Port (COM 2)	15	Secondary IDE Controller
4	Serial Port (COM 1)	16	Unused
5	Unused	17	Creative ES1371/1373 embedded audio
6	Diskette Drive	18	Video controller
7	Parallel Port (LPT 1)	19	Standard USB controller 2
8	System CMOS/Real-Time Clock	20	Intel PRO/100 VM embedded NIC
9	ACPI-compliant system	21	Unused
10	Unused	22	Adaptec AIC-7892 embedded SCSI controller
11	Unused	23	Standard USB controller 1

Computer LEDs (On front of computer)

LED	Color	LED Activity	State/Message
Power	Green	On	(S0) Computer on
Power	Green	1 blink every 1 second	(S1) Normal Suspend Mode
Power	Green	1 blink every 2 seconds	(S3) Suspend to RAM
Power	Green	1 blink every 4 seconds	(S4) Suspend to Disk (if applicable)
Power	Clear	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

ROM BIOS

Use ROM BIOS 686P8, ver 01.22, dated 6-26-02 or later.

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	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.

System Board Diagnostic Lights¹

Main Power Switch Status	3.3 V_Aux LED	5 V_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 ON.

5. PSON is active = power supply is turned ON.

Integrated Network Interface (NIC) Diagnostic Lights (on back of computer)*

LED Color on RJ-45 Connector	LED Activity	State/Message
Green	ON	Network link
Green	Flashing	Network activity
Amber	ON	100 Mb Connection
Amber	OFF	10 Mb Connection

*Applies only to NICs that are an integral part of the system board.

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
Power	Energy Saver Timeouts Energy Saver Options
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.

Clearing CMOS

The computer's configuration (CMOS) may occasionally be corrupted. If it does, 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.
6. Run F10 Computer Setup (delete-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.
2. Remove the access panel.
3. Locate the header and jumper labeled P34.
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. Reconnect the external equipment.
7. Plug in the computer and turn on power. Allow the operating system to start. This clears the current passwords and disables the password features.
8. To re-enable the password features, repeat steps 1-4, then replace the jumper on pins 1 and 2.
9. Repeat steps 6-8, then establish new passwords.

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