

Compaq Evo D300v

Illustrated Parts Map

Compaq Evo Desktop Family of Personal Computers
Microtower Models, Pentium 4 Processor



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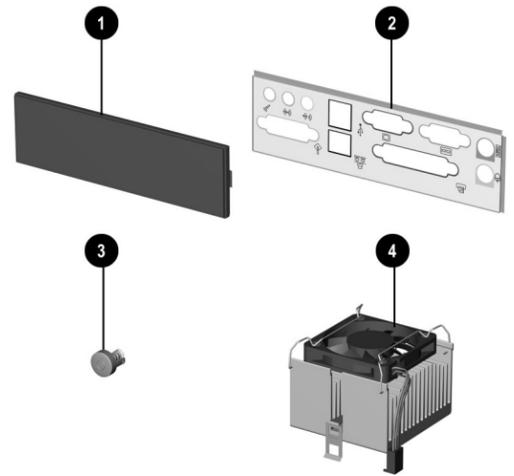
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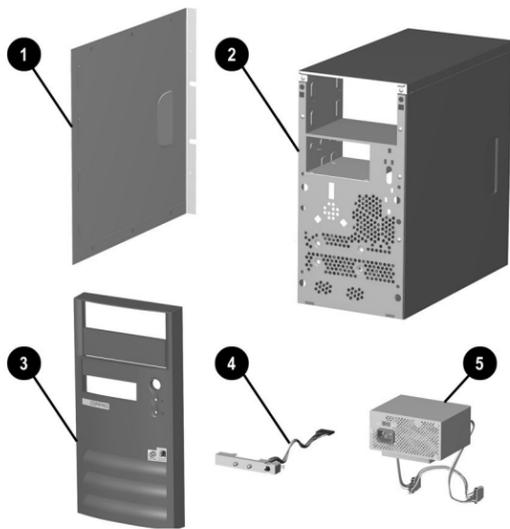
Miscellaneous Parts

1	Bezel blank	251618-001
2	I/O panel	273442-001
3	Power button with spring	251619-001
4	Heatsink, up to 2.4 GHz	268155-001
*	Heatsink thermal pad	251616-001
*	Battery, real-time-clock	153099-001
*	Mouse, 2-button	237241-001

*Not shown

Keyboards (not illustrated)

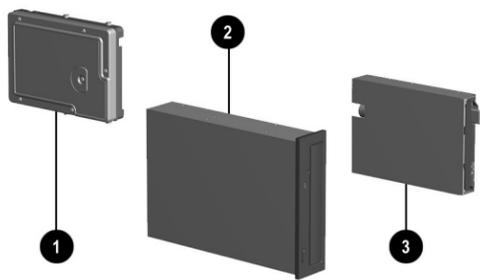
United States	251623-001
Canadian French	251623-121
Japanese (Kanji)	251623-291
Latin American Spanish	251623-161
Taiwan	251623-AB1
PRC	251623-AA1



System Unit

1	Access Panel	Not spared
2	Chassis assembly	Not spared
3	Front bezel with bezel blank	251617-001
4	LED power switch assembly	251620-001
5	Power supply, PFC, 250W	263999-001
*	Power supply, 250W	263998-001

* Not shown

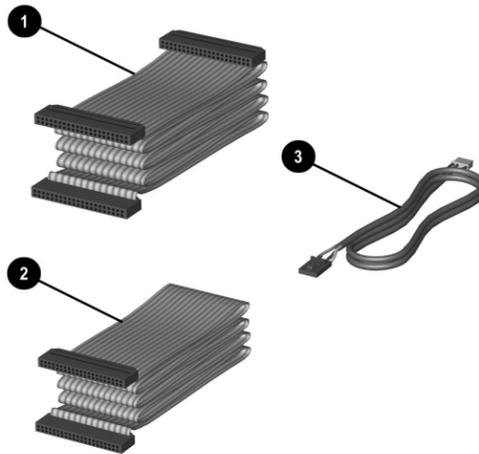


Mass Storage Devices

1	20-GB Hard drive	197799-001
2	48X CD-ROM drive	253105-001
3	Diskette drive, 3.5-inch	251629-001

Documentation and Packaging (not illustrated)

Service Reference Guide	259968-001
Quick Troubleshooting Guide	153837-001
Illustrated Parts Map	268318-001
Return kit	207742-001



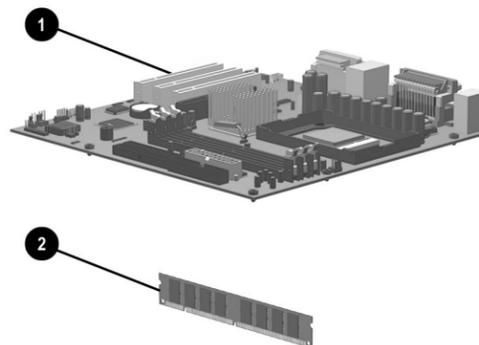
Cables

1	Diskette drive cable	271723-001
2	Hard drive data cable	271721-001
*	CD-ROM cable	271722-001
3	Audio cable	271720-001
*	AC Power cord - U.S.	142766-001
*	AC Power cord - PRC	292657-AA1
*	AC Power cord - U.K.	121259-001
*	AC Power cord - Brazil/Argentina	158878-201

*Not shown

Miscellaneous Screws (not illustrated)

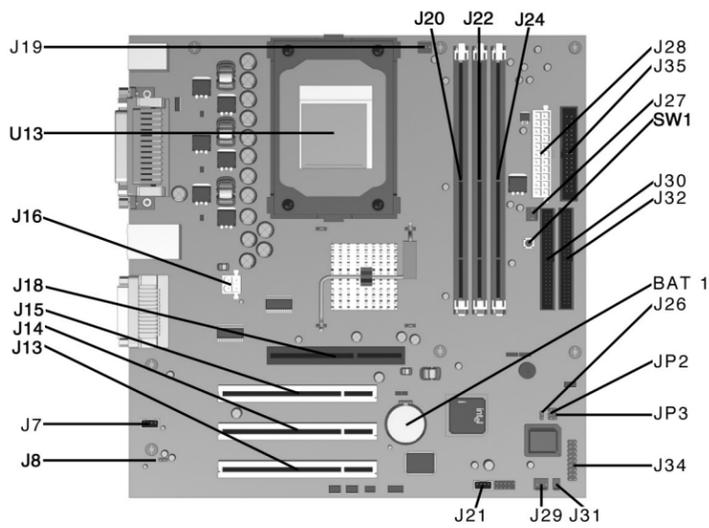
Miscellaneous screw kit, includes:	253112-001
#6-32 x 1/4" long, hex head (4 ea)	
#6-32 x 3/16" long, round head (3 ea)	
M3 x 6 mm long, hex head (14 ea)	



Standard and Optional Boards

1	System board	263997-001
2	Memory module, 128 MB	170081-001
Intel Pentium 4 Processor with alcohol pad		
*	1.6 GHz	255434-001
*	1.7 GHz	252919-001
*	1.8 GHz	255435-001
*	Modem, V.90	166358-002

* Not shown



System Board Connectors and Jumpers

BAT1	External battery	J28	Main power connector
J7	Aux audio in connector	J29	Chassis fan
J8	Mono audio out	J30	Secondary IDE connector
J12	CD audio in connector	J31	SCSI LED connector
J13, 14, 15	PCI card sockets	J32	Primary IDE connector
J16	ATX 12V	J34	Power-On switch and LED connector
J18	AGP card socket	J35	Diskette drive connector
J19	Processor (CPU) fan	JP2*	ROM BIOS lock
J20, 22, 24	Memory slots	JP3**	Safe mode
J21	Wake on LAN connector	SW1	CMOS button
J26	Chassis intrusion connector (not used)	U13	Processor
J27	System fan (power supply)		

*Default shipping configuration is with Pins 2 & 3 jumpered.

**Default shipping configuration is with Pins 1 & 2 jumpered.

Interrupts

IRQ	System Resource	IRQ	System Resource
NMI	I/O channel check	8	Real-time Clock
0	Reserved, interval timer	9	Reserved for ICH2 system management bus
1	Reserved, keyboard buffer full	10	User available
2	Reserved, cascade interrupt from slave PIC	11	User available
3	Serial Port* (COM 2)(user available if COM2 is not present)	12	Onboard mouse port (user available if not present)
4	Serial Port* (COM 1)	13	Reserved, math coprocessor
5	LPT2 (Plug and Play option)/audio /user available	14	Primary IDE controller (user available if not present)
6	Diskette drive controller	15	Secondary IDE controller (user available if not present)
7	Parallel Port* (LPT 1)		

*Default, but can be changed to another IRQ.

DMA Channel

Channel Number	Data Width	System Resource
0	8- or 16-bits	Audio
1	8- or 16-bits	Audio/parallel port
2	8- or 16-bits	Diskette drive
3	8- or 16-bits	Parallel port (for ECP or EPP)/audio
4	8- or 16-bits	DMA controller
5	16-bits	Open
6	16-bits	Open
7	16-bits	Open

System Memory Map

Decimal Address Range	Hex Address Range	Size	Description
1024K-524288K	100000-1FFFFFFF	511 MB	Extended memory
960K-1024K	F0000-FFFFF	64KB	Runtime BIOS
896K-960K	E0000-EFFFF	64KB	Reserved
800K-896K	C8000-DFFFF	96KB	Available high DOS memory (open to PCI bus)
640K-800K	A0000-C7FFF	160KB	Video memory and BIOS
639K-640K	9FC00-9FBFF	1KB	Extended BIOS data (moveable by memory manager software)
512K-639K	80000-9FBFF	127KB	Extended conventional memory
0K-512K	0000-7FFFF	512KB	Conventional memory

I/O Map

Address (hex)	Size	Description
0000-000F	16 bytes	DMA controller
0020-0021	2 bytes	Programmable Interrupt Control (PIC)
0040-0043	4 bytes	System timer
0060	1 byte	Keyboard controller byte-reset IRQ
0061	1 byte	System speaker
0064	1 byte	Keyboard controller, CMD/STAT byte
0070-0071	2 bytes	System CMOS/real-time clock
0072-0073	2 bytes	System CMOS
0080-008F	16 bytes	DMA controller
0092	1 byte	Fast A20 and PIC
00A0-00A1	2 bytes	PIC
00B2-00B3	2 bytes	APM control
00C0-00D0	32 bytes	DMA

I/O Map (continued)

Address (hex)	Size	Description
00F0	1 byte	Numeric data processor
0170-0177	8 bytes	Secondary IDE channel
01F0-01F7	8 bytes	Primary IDE channel
One of these ranges: 0200-0207 0208-020F 0210-0217 0218-021F	Can vary from 1 byte to 8 bytes	Audio
One of these ranges: 0220-022F 0240-024F	16 bytes 16 bytes	Audio (SoundBlaster Pro+ compatible)
0228-022F*	8 bytes	LPT3
0278-027F*	8 bytes	LPT2
02E8-02EF*	8 bytes	COM4/video (8514A)
02F8-02FF*	8 bytes	COM2
0376	1 byte	Secondary IDE channel command port
0377, bit 6:0	7 bits	Secondary IDE channel status port
0378-037F	8 bytes	LPT1
0388-038B	6 bytes	AdLib+ (FM synthesizer)
03B0-03BB	12 bytes	Intel 82815 Graphics/Memory Controller Hub (GMCH)
03C0-03DF	32 bytes	Intel 82815 Graphics/Memory Controller Hub (GMCH)
03E8-03EF	8 bytes	COM3
03F0-03F5	6 bytes	Diskette channel 1
03F6	1 byte	Primary IDE channel command port
03F8-03FF	8 bytes	COM1
04D0-04D1	2 bytes	Edge/level triggered PIC
LPTn+400h	8 bytes	ECP port, LPTn base address+400h
0CF8-0CFB**	4 bytes	PCI configuration address register
0CF9***	1 byte	Turbo and reset control register
0CFC-0CFF	4 bytes	PCI configuration data register
FFA0-FFA7	8 bytes	Primary bus master IDE registers
FFA8-FFAF	8 bytes	Secondary bus master IDE registers

*Default, but can be changed to another address range.

**Dword access only

***Byte access only

NOTE: Some additional I/O addresses are not available due to ICH addresses aliasing.

I/O Map Size and Address

I/O Map Size and Address	Description
96 contiguous bytes starting on a 128-byte divisible boundary	ICH2 (ACPI+TCO)
64 contiguous bytes starting on a 64-byte divisible boundary	Motherboard resource
64 contiguous bytes starting on a 64-byte divisible boundary	ICH2 LAN controller
64 contiguous bytes starting on a 64-byte divisible boundary	ICH2 AC '97 audio master
256 contiguous bytes starting on a 256-byte divisible boundary	ICH2 AC '97 audio mixer
256 contiguous bytes starting on a 256-byte divisible boundary	ICH2 AC '97 modem mixer
32 contiguous bytes starting on a 32-byte divisible boundary	ICH2 USB controller #1
32 contiguous bytes starting on a 32-byte divisible boundary	ICH2 USB controller #2
16 contiguous bytes starting on a 16-byte divisible boundary	ICH2 (SMBus)
4096 contiguous bytes starting on a 4096-byte divisible boundary	Intel 82801BA PCI bridge

Clearing CMOS and Passwords

The computer's configuration (CMOS) may occasionally be corrupted. If it is, it is necessary to clear the CMOS memory using switch SW1.

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 Computer Setup (delete-utility) to reconfigure the system.

*When the CMOS button is pushed 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.

Setting the Supervisor and Power-On Passwords

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

1. Turn off the computer, restart, then hold down the DEL key until the Computer Setup utility begins.
2. Select "Set Supervisor Password," press enter, and follow the screen instructions.
3. The password will be enabled after saving settings and exiting the utility

B. Setting a Power-On Password.

NOTE: A Supervisor Password must have been previously set. That same password will be used for the Power-On Password.

1. Turn on the computer, then hold down the DEL key until the Computer Setup utility begins.
2. Select Advanced CMOS Setup--> Password Check.
3. Select "Always" from the Available Options list.
4. The password will be enabled after saving settings and exiting the utility.

NOTE: Clearing passwords clears both the Supervisor and Power-On Passwords, but does not clear the "Always" option. To reset only the Supervisor Password, change "Always" to "Setup" on the available Options list.

NOTE: Clearing CMOS clears the Power-On Password. It does NOT clear the Supervisor Password.