

Compaq Deskpro EN Small Form Factor

Illustrated Parts Map



COMPAQ

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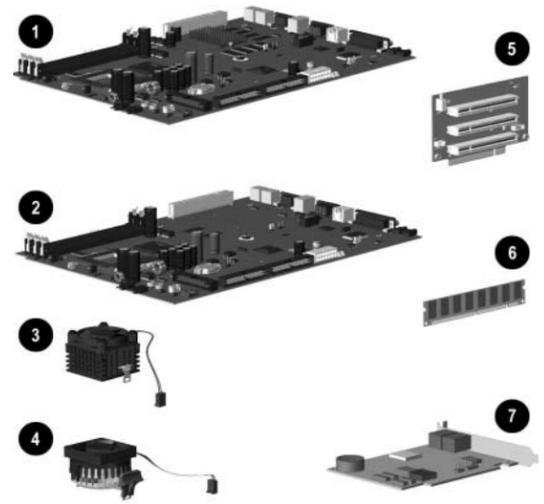
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August 2001

Part Number 203254-002



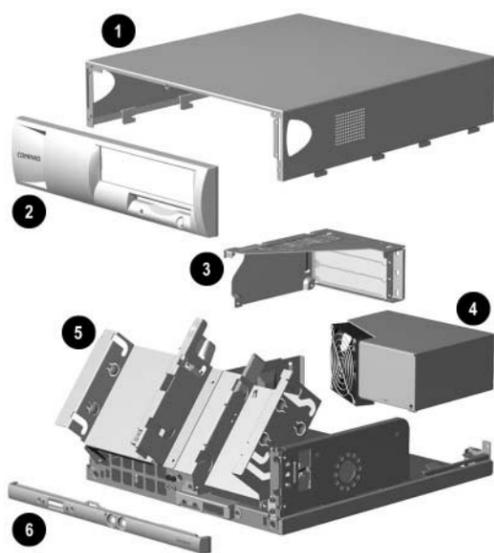
Spare Part Number 203723-001



Standard and Optional Boards

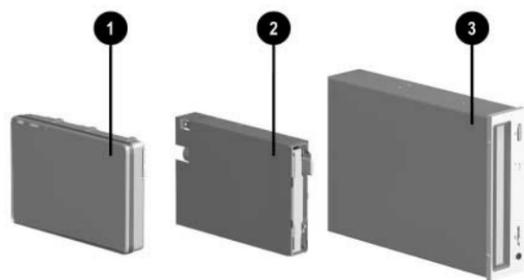
1	System board including 16 MB integrated AGP graphics	187499-001
2	System board including 4 MB integrated graphics	187500-001
*	System board, Tualatin ready (replaces 187499-001)	239118-001
*	System board, Tualatin ready (replaces 187500-001)	239117-001
Intel Celeron Microprocessor with fansink		
*	733/66 MHz	231588-001
*	850/100 MHz	239115-001
Intel Pentium III Microprocessor with fansink		
3	600/66 MHz (use with 187500-001 & 239117-001)	194972-001
*	667/133 MHz (use with 187500-001 & 239117-001)	194973-001
*	733/133 MHz	194974-001
*	800/133 MHz	194975-001
4	866/133 MHz	194976-001
*	933/133 MHz (use with 187499-001 & 269118-001)	201490-001
*	1 GHz (use with 187499-001 & 269118-001)	218317-001
*	1.13 GHz Tualatin (use with 239117-001 and 239118-001)	239112-001
*	1.20 GHz Tualatin (use with 239117-001 and 239118-001)	239113-001
Heatsinks		
*	600 thru 933 MHz	228026-001
*	1.0 GHz	245262-001
*	1.13 GHz and greater	240763-001
5	Riser board	171489-001
6	Memory Module, 64 MB, 133 MHz	170080-001
*	Memory Module, 128 MB, 133 MHz	170081-001
*	Memory Module, 256 MB, 133 MHz	192014-001
7	Modem, 56K, PCI	157071-B21
*	nVIDIA PCI Graphics controller, 32 MB	232245-001
*	TNT2 Graphics, 16 MB SDRAM	179997-001
*	NIC, 10/100 PCI	118042-001

*Not shown



System Unit

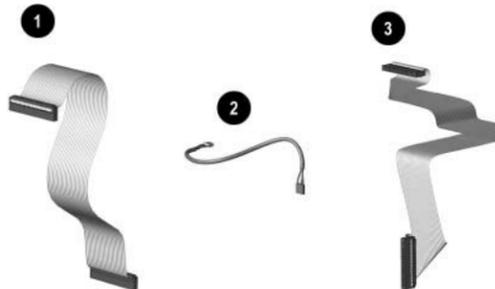
1	Computer cover	226774-001
2	Front bezel	201488-001
3	Expansion card cage	not spared
4	Power supply	176763-001
5	Chassis assembly with drive cage	not spared
6	Front trim (below front bezel)	201487-001



Mass Storage Devices

1	10-GB UATA (66/7200) hard drive	135364-001
*	10-GB, 5400 RPM Quiet hard drive	203139-001
*	10-GB UATA (100/7200) hard drive	180471-001
*	10-GB UATA (100/7200) Quiet hard drive	180472-001
*	10-GB UATA (66/7200) Quiet hard drive	192058-001
*	15-GB 7200 Quiet hard drive	180473-001
*	15-GB 7200 hard drive	180474-001
*	15-GB UATA (66/7200) hard drive	192060-001
*	15-GB UATA (66/7200) Quiet hard drive	192059-001
*	20-GB UATA, 7200 hard drive	157403-001
*	20-GB UATA (100/7200) hard drive	180475-001
*	20-GB UATA (100/7200) Quiet hard drive	180476-001
*	30-GB UATA, 7200 hard drive	180477-001
2	Diskette drive, buttonless, opal	191714-001
3	40X CD-ROM drive	400807-001
*	48X CD-ROM drive	187263-001

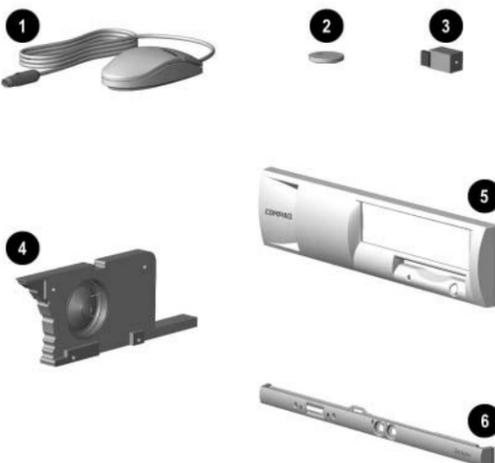
*Not shown



Cables

Cable kit, includes:		201486-001
1	Diskette drive data cable, 8.5" (168999-001)	
2	CD-ROM audio cable, 12" (387527-001)	
3	Hard drive data cable, 18" (180950-016)	
*	Solenoid cable (174311-001)	
*	CD-ROM data cable, 18" (108950-017)	
Cable kit, includes:		192264-001
*	Hard drive/CD-ROM data cable, 18" (108950-019)	
*	40-Pin IDE data cable, 12.5" (105876-001)	
*	Audio cable, 21" (288489-002)	
*	Audio cable, 21" (387527-001)	
*	Hard drive/CD-ROM data cable, 9.75" (108950-021)	
Cable kit, includes:		192263-001
*	CD-ROM data cable, 18", (108950-017)	
*	Audio cable, 21", (387527-002)	

*Not shown



Miscellaneous Parts

1	Mouse, scroll, opal	334689-002
2	Battery	153099-001
3	Solenoid, 2-coil	201485-001
4	Speaker	201273-001
*	External speaker	294408-001
5	Front bezel	201488-001
6	Front trim (below front bezel)	201487-001
*	Lever, tilt/stop	222052-001
*	Security reader	294427-001
*	Tamper resistant T-15 wrench	166527-001
*	Tamper resistant T-15 bit (5 ea)	166527-002

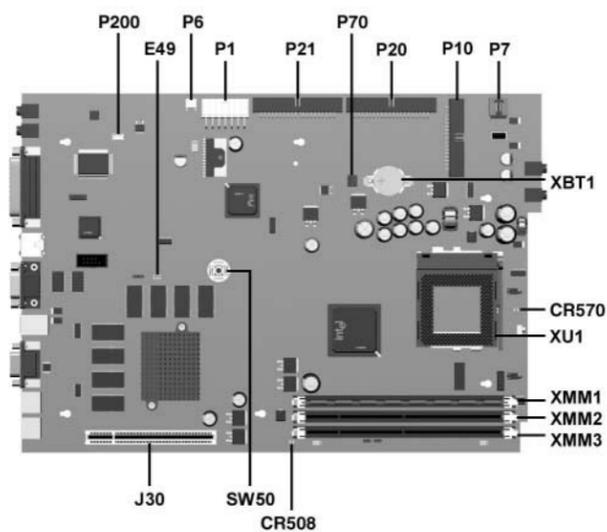
*Not shown

Miscellaneous Plastics (not illustrated)

Miscellaneous plastic kit, includes:		201489-001
	Bezel blank (171991-001)	
	Foot, rubber (4 ea) (166932-001)	

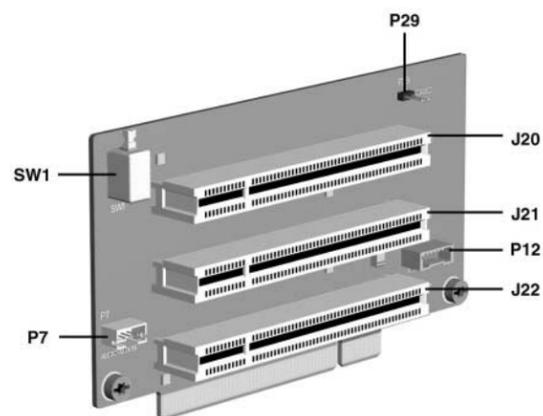
Documentation and Packaging (not illustrated)

<i>Maintenance & Service Guide</i>	201844-001
<i>Service Reference Guide</i>	225698-001
<i>Quick Troubleshooting Guide</i>	153837-001
<i>Illustrated Parts Map</i>	203723-001
Return kit	212545-001



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

CR508	3.3V Aux LED	P20	Primary IDE connector
CR570	5V Aux (ON)/PS_ON_(OFF) LED	P21	Secondary IDE connector
E49	Password jumper (Installed = Enabled, Removed = Cleared)	P70	CPU fan connector
J30	Riser board	P200	Hood lock solenoid connector
P1	Power supply connector	SW50	Clear CMOS button
P6	Speaker connector	XBT1	Battery
P7	CD-ROM audio	XMM1-3	Memory sockets
P10	Diskette drive connector	XU1	Processor socket



Riser Board Connectors and Jumpers

J20	PCI slot	P12	NIC SOS connector
J21	PCI slot	P29	SCSI LED connector
J22	PCI slot	SW1	Security hood switch
P7	CD audio connector		

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	IDE interface hard drive
7	Parallel Port (LPT 1)	15	CD-ROM

System Hardware DMA

DMA	System Function	DMA	System Function
0	Unused	4	DMA Controller Cascading
1	Unused	5	Unused
2	Diskette Drive	6	Unused
3	ECP Parallel Port LPT1 (Default; Alternate = DMA 0)	7	Unused

ICH Fixed I/O Registers

Port	Register Name
00h, 02h, 04h, 06h	Channel 0, 1, 2, 3 DMA base and current address register
C0h, C4h, C8h, CCh	Channel 4, 5, 6, 7 DMA base and current address register
01h, 03h, 05h, 07h	Channel 0, 1, 2, 3 DMA base and current count register
C2h, C6h, CAh, CEh	Channel 4, 5, 6, 7 DMA base and current count register
10h-1Fh	Aliased at 00h-0Fh
20h	Master PIC ICW1 Init. Cmd Word 1 register, Master PIC OCW2 Init. Cmd Word 2 register, and Master PIC OCW3 Init. Cmd Word 3 register
21h	Master PIC OCW1 Init. Cmd Word 1 register, Master PIC ICW2 Init. Cmd Word 2 register, and Master PIC ICW3 Init. Cmd Word 3 register
24h, 25h, 28-29h, 2Ch-2Dh, 30h-31h, 34h-35h, 38h-39h, 3Ch-3Dh	Aliased at 20h-21h
40h	Counter 0 interval time status byte format and Counter 0 counter access port register
41h	Counter 1 interval time status byte format and Counter 1 counter access port register
42h	Counter 2 interval time status byte format and Counter 2 counter access port register
43h	Timer control word register, Timer control word register read back, and Counter latch command
50h-53h	Aliased at 40h-43h
61h	NMI status and control register
70h	NMI enable register and Real-time clock (Standard RAM) index register

ICH Fixed I/O Registers (Continued)

I/O Address (Hex)	Register Name
71h	Real-time clock (Standard RAM) target register
72h	Extended RAM index register
73h	Extended RAM target register
74h-75h	Aliased at 70h-71h
76h-77h	Aliased at 72h-73h or 70h-71h
81h, 82h, 83h	Channel 2, 3, 1 DMA memory low page register
84h-86h, 88h	Reserved page registers
89h, 8Ah, 8Bh	Channel 6, 7, 5 DMA memory low page register
8Ch-8Eh	Reserved page registers
8Fh	Refresh low page register
91h-9Fh (except 92h)	Aliased at 81h-8Fh
92h	Fast A20 and INIT register
CF9h	Reset control register
A0h	Slave PIC ICW1 Init. cmd word 1 register, Slave PIC OCW2 Init. cmd word 2 register, and Slave PIC OCW3 Init. cmd word 3 register
A1	Slave PIC ICW2 Init. cmd word 2 register, Slave PIC ICW3 Init. cmd word 3 register, Slave PIC ICW4 Init. cmd word 4 register, and Slave PIC OCW1 Init. cmd word 1 register
A4h-A5h, A8h-A8h, ACh-ADh, B0h-B1h, B4h-B5h, B8h-B9h, BCh-Bdh	Aliased at A0h-A1h
B2h	Advanced power management control port register
B3h	Advanced power management status port register
C0h, C4h, C8h, CCh	Channel 4, 5, 6, 7 DMA base and current address register
C1h	Aliased at C0h
C5h	Aliased at C4h
C9h	Aliased at C8h
CDh	Aliased at CCh
C2h, C6h, CAh, CEh	Channel 4, 5, 6, 7 DMA base and current count register
C3h	Aliased at C2h
C7h	Aliased at C6h
CBh	Aliased at CAh
CFh	Aliased at Ceh
D0h	Channel 4-7 DMA command register and status register
D1h	Aliased at D0h
D4h	Channel 4-7 DMA write single mask register
D5h	Aliased at D4h
D6h	Channel 4-7 DMA channel mode register
D7h	Aliased at D6h
D8h	Channel 4-7 DMA clear byte pointer register
D9h	Aliased at D8h
DAh	Channel 4-7 DMA master clear register
DBh	Aliased at DAh
DCh	Channel 4-7 DMA clear mask register
DEh	Aliased at DCh
DEh	Channel 4-7 DMA write all mask register
DFh	Aliased at DEh
F0h	Coprocessor error register
170h-177h	PIO mode command block offset for secondary drive
1F0h-1F7h	PIO mode command block offset for primary drive
376h	PIO mode control block offset for secondary drive
3F6h	PIO mode control block offset for primary drive
4D0h	Master PIC edge/level triggered register
3F6h	PIO mode control block offset for primary drive
4D1h	Slave PIC edge/level triggered register
400-47F	Super I/O
F800-F87F	Reserved (power management)
FA00-FA3F	Reserved (GPIO management)
FC00-FC0F	Reserved (SMBUS controller)

NOTE: When the POS_DEC_EN bit is set, additional I/O ports get positively decoded by the ICH.

System Memory Map

Size	Memory Address	System Function
512 KB	FFFFFFFFh to FFF80000h	System ROM
3839 MB	FFFBFFFFh to 10000000h	PCI memory expansion
511 MB	0FFFFFFFh to 00100000h	Host or PCI memory expansion
128 KB	000FFFFFFh to 000E0000h	System ROM
96 KB	000DFFFFFFh to 000C8000h	PCI option ROMs
32 KB	000C7FFFh to 000C0000h	Video ROM
128 KB	000BFFFFFFh to 000A0000h	Video RAM
640 KB	0009FFFFFFh to 00000000h	Base memory

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.

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 (delete-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.