HP Compaq Business PC
dc7600 Series Personal Computer

Illustrated Parts Map
Small Form Factor

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390740-001

System Unit

1	Computer cover assy with front bezel and no inserts	393599-001
1	Computer cover assembly with front bezel and no inserts (not painted, for Blue Angel use only)	393600-001
2	Power supply, (5 output, 240W)	381024-001
3	Chassis assembly	not spared

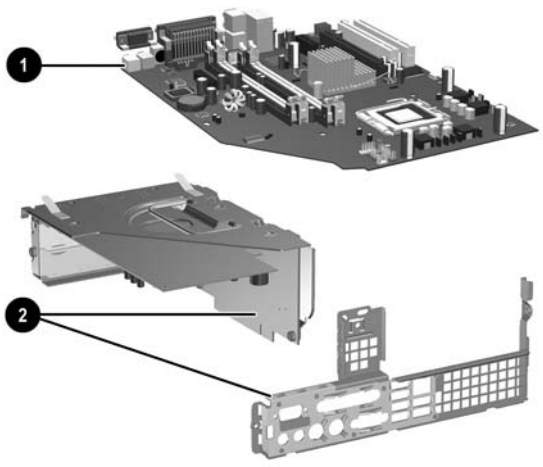
Cables

1	SATA hard drive cable, 19.5”	391739-001
2	Power switch/LED cable (use switch holder 370857-001)	392410-001
*	Serial port cable assembly, 2.65”	393605-001
3	Front I/O device with cable (USB + audio)	393606-001
*	Diskette drive cable	393608-001
*	IDE optical drive cable	393607-001
*	DMS-59 to dual dongle cable	339257-005
*	RJ-11 telephone cable	198220-005

**Not shown*

Mass Storage Devices (not illustrated)

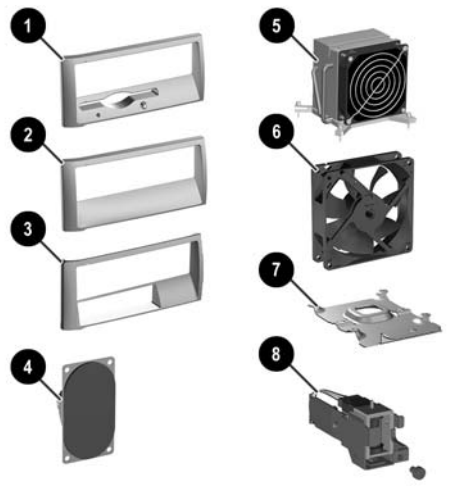
	40 GB\7200 RPM SATA hard drive	365555-001
	80 GB\7200 RPM SATA hard drive	391945-001
	160 GB\7200 RPM SATA hard drive	391741-001
	Diskette drive with mounting screws	392415-001
	48X CD-ROM drive with mounting screws	326773-005
	52X CD-ROM drive	333969-005
	48X/32X/48X CD-RW drive	395272-001
	48X/32X/48X +16X DVD/CD-RW drive	359493-005
	16X DVD+/-RW with LightScribe (DL/DF) drive	390882-001
	16/48X DVD-ROM drive	391946-001



Standard and Optional Boards

1	System board with alcohol pad and thermal grease	381028-001
2	Riser board (riser board is spared complete with expansion/riser card holder and computer backwall)	394213-001
Memory Modules		
*	256 MB/533 MHz FSB	393392-001
*	512 MB/533 MHz FSB	393393-001
*	1.0 GB/533 MHZ FSB	393394-001
*	256 MB/667 MHz FSB	396519-001
*	512 MB/667 MHz FSB	396520-001
*	1.0 GB/667 MHZ FSB	398038-001
Intel Pentium 4 Processors with alcohol pad and thermal grease		
*	2.8 GHz\800 MHz FSB, 1MB cache, 521	394643-001
*	3.0 GHz\800 MHz FSB, 1MB cache, 531	394642-001
*	3.2 GHz\800 MHz FSB, 1MB cache, 541	394812-001
*	3.0 GHz\800 MHz FSB, 2MB cache, 630	392273-001
*	3.2 GHz\800 MHz FSB, 2MB cache, 640	384786-001
*	3.4 GHz\800 MHz FSB, 2MB cache, 650	384787-001
Intel Pentium D Processors with alcohol pad and thermal grease		
*	2.8 GHz\800 MHz FSB, 2x1MB cache, 820	392419-001
Intel Pentium D Processors with alcohol pad and thermal grease		
*	2.8 GHz\800 MHz FSB, 2x1MB cache, 820	392419-001
Intel Celeron D Processors with alcohol pad and thermal grease		
*	2.66 GHz/533 MHz FSB, 256 KB cache, 331	391940-001
*	2.8 GHz/533 MHz FSB, 256 KB cache, 336	391941-001
Other Cards		
*	PCI Modem, International, FH bracket	361286-021
*	PCI Modem, International, LP bracket	361287-021
*	Intel Gigabit NIC	314901-005
*	Intel Pro 10/100/1000 MT NIC, LP bracket	338154-005
*	1394, LP bracket	361551-001
*	1394, FH bracket	361552-001
Graphics Solutions		
*	DVI ADD 2 graphics card	361265-001
*	PCI DVI/S-Video graphics, 64 MB	382667-001
*	ATI PCI-E DVI/S-Video graphics, 128 MB	361266-001
*	Quadro NVS 280 PCI-E graphics, 64 MB	365934-001
*	Quadro NVS 280 PCI graphics, 64 MB	351384-005

**Not shown*
LP= Low profile mounting bracket
FH = Full height mounting bracket - for use with riser board only



Miscellaneous Parts

*	5.25” Bay bezel blank (carbonite)	335937-005
1	CD drive bezel with diskette drive slot	370501-001
1	CD drive bezel with diskette drive slot (Blue Angel)	374792-001
2	CD drive bezel without diskette drive	367852-001
3	CD drive bezel with Zip drive slot	370504-001
3	CD drive bezel with Zip drive slot (Blue Angel)	374793-001
4	Speaker	394778-001
5	Heatsink with thermal grease and alcohol pad	382024-001
6	Chassis fan	392412-001
*	Heatsink duct baffle	375514-001
7	Heatsink retention plate	393609-001
*	Backing plate thumbscrew	393610-001
8	Solenoid lock with cable	393602-001
*	Tower stand	393604-001
*	Hood sensor	393603-001
*	Mouse, 2-Button, PS/2 with scroll wheel	390937-001
*	Mouse, 2-Button, USB, with scroll wheel	323615-005
*	Mouse, 2-Button, USB, optical with scroll wheel	390938-001
*	Power switch holder with LED holders (use with 392410-001 switch)	370857-001
*	Foot kit, oval and round (4 ea)	370708-001
*	Drive Key II, USB flash drive, 256 MB	372889-001
*	Real-time-clock battery	153099-001
*	Port control cover	367856-001
*	HP Business PC Security Lock (without cable)	335808-005
*	HP Business PC Security Lock (with cable)	335809-005
*	Second serial port (low profile)	393601-001
*	Second serial port (full height)	392414-001
*	DVI to VGA adapter	202997-005

Modem Cable Adapters (not illustrated) (use with 198220-005)

Australia	304398-015		Italy	316904-065
Belgium	316904-181		Netherlands	316920-335
Czech	234963-225		Poland/Russia	316904-241
France	316904-051		Scandinavia	382848-DH1
Germany	316904-045		Switzerland	304398-115
Greece	316904-151		Turkey	316904-141
Hungary	234963-215		U.K.	158593-035
Israel	316904-BB1			

**Not shown*

Keyboards (not illustrated)

PS/2, Basic	**382925-xxx**
USB, Basic	**382926-xxx**
USB, Basic, BG1650	**382927-xxx**

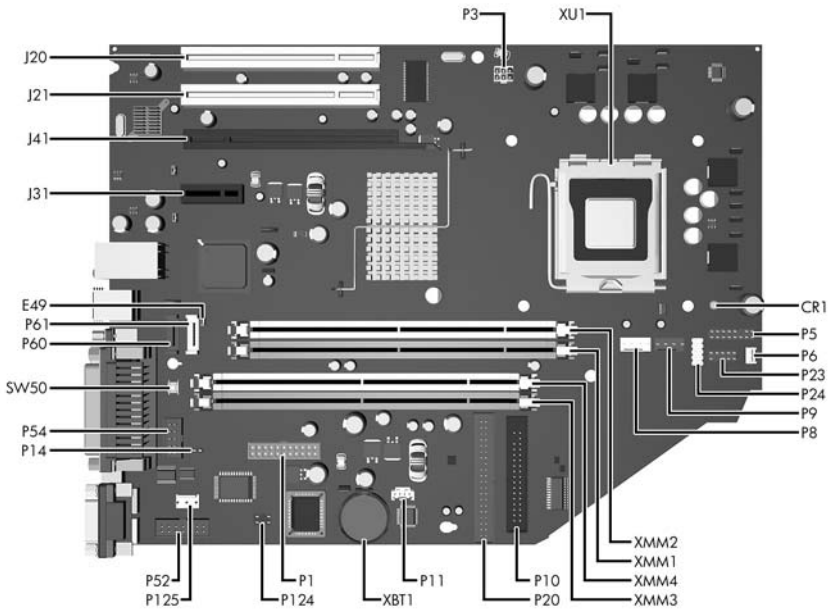
Belgian*	-181	Korean (Hanguel)	-AD1
BHCSY	-B41	LA Spanish	-161
Brazilian Portuguese	-201	Norwegian	-091
Czech	-221	PRC	-AA1
Danish*	-081	Portuguese	-131
Finnish	-351	Slovakian	-231
French*	-051	Spanish	-071
French Arabic	-DE1	Swedish*	-101
French Canadian	-121	Swiss*	-111
German*	-041	Taiwanese	-AB1
Hebrew	-BB1	Thai	-281
Hungarian	-211	Turkish	-141
International*	-B31	U.S.	-001
Italian*	-061	U.K.	-031
Japanese	-291		

*Only these countries include the 382927 keyboard

PS/2, Basic, 105 key	**396215-xxx**		
USB, Basic, 105 key	**396217-xxx**		
Arabic	-171	Russian	-251
Greek	-151		

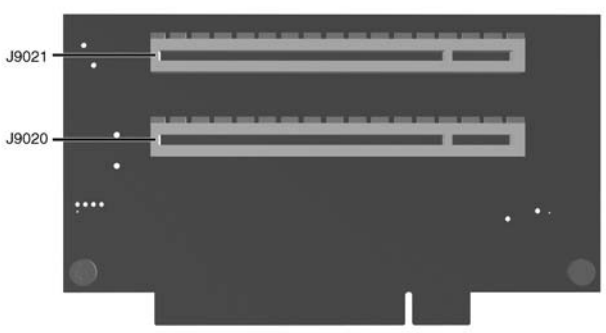
Miscellaneous Screw Kit (not illustrated)

Miscellaneous screw kit	397755-001
6-32x.250 TF, HI/TP W/SERR, 2 ea	
6-32x.187 TF, HI/TP W/SERR, 2 ea	
Plastite, Flathead, Phillips, 4 ea	
Plastite 8X5/16L, .185DX.03 SHLDR, 2 ea	



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

CR1	5V Aux power LED	P23	Front audio
E49	Password jumper	P24	USB connector, front panel
J20	PCI slot 1	P52	Second Serial port
J21	PCI slot 2	P54	Primary Serial Port
J31	PCI Express x1	P60	Primary Serial ATA (SATA) connector
J41	PCI Express x16	P61	Secondary Serial ATA (SATA) connector
P1	Main power (24 pin)	P124	Hood lock
P3	Processor 12V header	P125	Hood sensor
P5	Main power switch/LED	SW50	CMOS button
P6	Internal chassis speaker	XBT1	Battery
P8	Primary chassis fan	XMM1	Memory socket
P9	Secondary chassis fan	XMM2	Memory socket
P10	Diskette drive	XMM3	Memory socket
P11	Aux audio in	XMM4	Memory socket
P14	Boot block	XU1	Microprocessor socket
P20	IDE		



Riser Board Connectors

J9020	PCI connector	J9021	PCI 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	Primary ATA (IDE) Controller
7	Parallel Port (LPT 1)		

Computer Diagnostic LEDs (on front of computer)

LED	Color	LED/Beep Activity	State/Message
Power	Green	On	(S0) Computer on
Power	Green	1 blink every 2 seconds	(S1) Suspend Mode
Power	Green	1 blink every 2 seconds	(S3) Suspend to RAM
Power	Clear	Off	(S4) Hibernation
Power	Clear	Off	(S5) Computer off
Power	Red*	2 blinks 1 second apart	CPU thermal shutdown
Power	Red*	3 blinks 1 second apart	CPU not installed
Power	Red*	4 blinks 1 second apart	Power supply overload (crow bar)
Power	Red*	5 blinks 1 second apart	Defective or missing memory
Power	Red*	6 blinks 1 second apart	Defective or missing graphics
Power	Red*	7 blinks 1 second apart	System board failure (detected prior to video)
Power	Red*	8 blinks 1 second apart	Invalid ROM based on checksum
Power	Red*	9 blinks 1 second apart	System not fetching code
Power	Red*	10 blinks 1 second apart	System hang while loading an option ROM
Hard Drive	Green	Blinking	Hard drive activity

**Blinking codes are repeated after a 2 second pause. Beeps stop after fifth iteration but LEDs continue until problem is resolved.*

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. Turn off the computer and any external devices, and disconnect the power cord from the power outlet.

CAUTION: You must disconnect the power cord 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.
4. Replace the access panel.
5. 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.
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 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 *Desktop Management Guide* and the *Computer Setup (F10) Utility Guide* for instructions on establishing new passwords

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

File	System Information About Set Time and date	Flash system ROM Replicated Setup Default Setup	Apply Defaults and Exit Ignore Changes and Exit Save Changes and Exit
Storage	Device Configuration Storage Options	DPS Self-Test Boot Order	
Security	Smart Card Options Setup Password Power-On Password Password Options	Smart Cover Embedded Security Device Security Network Service Boot	System IDs Drivelock Security OS Security Data Execution Prevention
Power	OS Power Management	Hardware Power Management	Thermal
Advanced	Power-On Options Execute Memory Test BIOS Power On	Onboard Devices PCI Devices PCI VGA Configuration	Bus Options Device Options

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