

# HP Compaq dc5100 Business PC Series

Illustrated Parts Map  
Small Form Factor

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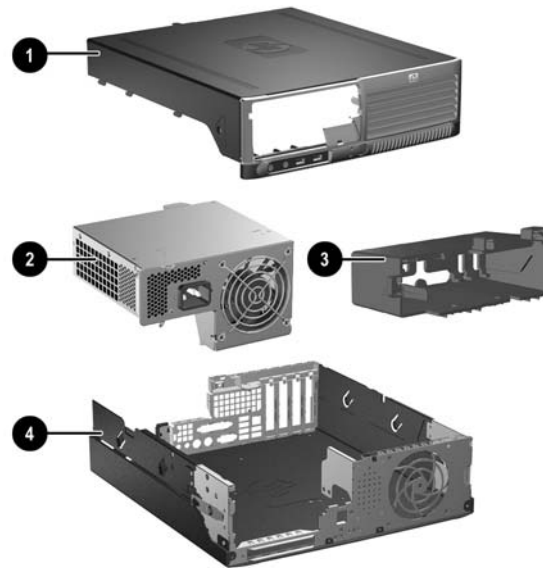
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Third Edition, June 2006

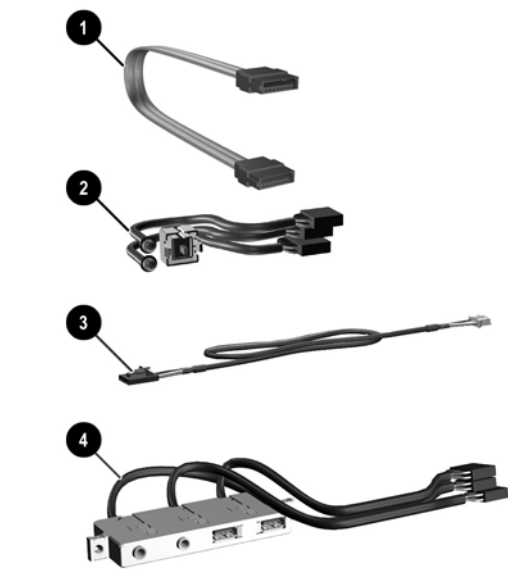
First Edition, January 2005

Document Number  
376224-003



## System Unit

1	Computer cover assy with front bezel and no inserts	378007-001* 393599-001 ◆
2	Power supply, PFC	381024-001 ◆
3	Rear security cover	367856-001 ◆
4	Chassis assembly	not spared



## Cables

1	SATA hard drive cable, 19"	391739-001 ◆
+	SATA hard drive cable, 13	346141-005* 391738-001 ◆
2	Power switch/LED cable - use switch holder 370857-001	368387-001* 392410-001 ◆
3	Audio cable (CD to system board) (387527-001)	149806-001* ◆
4	Front I/O device with cable	368386-001* 393606-001 ◆
+	UATA data cable, 14.25" lg	368389-001* 393607-001 ◆
+	DMS59 to dual VGA graphics cable (use with 398686-001/351384-005)	383283-001* 339257-005 ◆
+	RJ-11 telephone cable (use with 398661-001)	198220-005 ◆
+	UATA data cable, dual connector, 19"	346142-005* 391739-001 ◆
+	Serial port cable, 2.65"	382511-001* 393605-001 ◆

+Not shown

## Mass Storage Devices (not illustrated)

40 GB/7200 RPM SATA hard drive	365555-001* 409232-001 ◆
80 GB/7200 RPM SATA hard drive	345713-005* 413319-001 ◆
250 GB/7200 RPM SATA hard drive	393303001* 391937-001 ◆
160 GB/7200 RPM SATA hard drive	345712-005* 391741-001 ◆
Diskette drive with mounting screws	333505-005* 392415-001 ◆
48X CD-ROM drive with mounting screws	326773-005* 397130-001 ◆
52X CD-ROM drive	333969-005* 413522-001 ◆
48X/32X/48X CD-RW drive	346788-005* 395272-001 ◆
48X/32X/48X+16X DVD/CD-RW drive	359493-005* 405425-001 ◆
16X DVD+R/RW drive	390882-001* 405760-001 ◆
16/40X DVD ROM drive	325313-005* 405761-001 ◆

## Miscellaneous Screw Kit (not illustrated)

Miscellaneous screw kit, including:	397755-001 ◆
#6-32 x .250, hitop (192308-001) 2 ea	
#6-32 x .187, hitop (192308-003) 2 ea	
#8 x .5 Plastite FH (247481-001) 4 ea	
#8 x .312 Plastite (334248-001) 2 ea	

Notes:  
☒ Original Spare  
◆ Modified Spare

## REQUIREMENT:

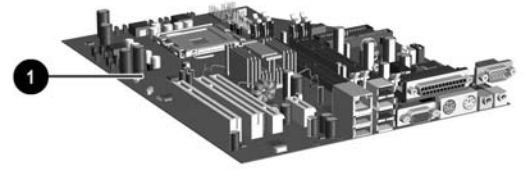
For customers in countries/regions with RoHS legislation\* (e.g. EU, China, etc.) restricting the use of hazardous substances in electrical equipment.

The use of the Original Spare part is regulated by RoHS legislation. If your unit contains a part that is labelled with the Modified Spare number, the Modified Spare must be ordered as the replacement part.

If your unit contains a part that is labelled with the Original Spare number, please order the Original Spare as the replacement part. In this case either the Original Spare or the Modified Spare may be shipped which will not affect performance or functionality of the unit.

\*Directive 2002/95/EC restricts the use of lead, mercury, cadmium, hexavalent chromium, PBBs and PBDEs in electronic products. Countries/regions outside the EU, e.g. China, are introducing similar legislation. References to "RoHS legislation" means requirements of Directive 2002/95/EC or similar substance restrictive legislation enacted by any country/region outside the EU, or similar substance restrictive legislation enacted by any country/region outside the EU.

See next page for keyboard spares

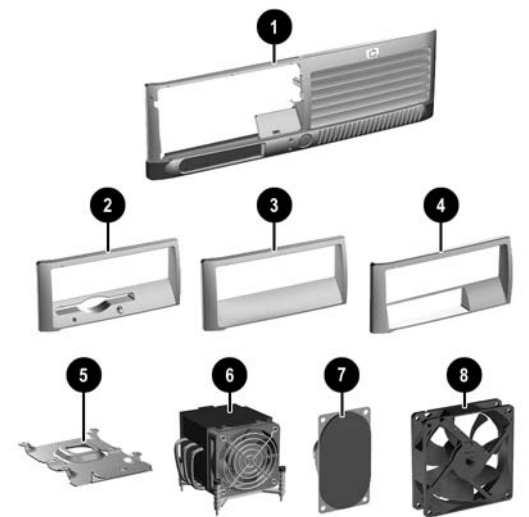


## Standard and Optional Boards

1	System board with alcohol pad and thermal grease	403715-001 ◆
Memory Modules		
+	256 MB/533 MHz FSB, PC2-4200	382508-001* 393392-001 ◆
+	512 MB/533 MHz FSB, PC2-4200	382509-001* 393393-001 ◆
+	1 GB/533 MHz FSB, PC2-4200	382510-001* 393394-001 ◆
Intel Celeron D Processors with thermal grease and alcohol pad		
+	2.66 GHz/533 MHz FSB, 256 KB cache, D-331	375361-001* 391940-001 ◆
+	2.8 GHz/533 MHz FSB, 256 KB cache, D-336	375362-001* 391941-001 ◆
+	2.93 GHz/533 MHz FSB, 256 KB cache, D-341	382501-001* 405692-001 ◆
+	3.06 GHz/533 MHz FSB, 256 KB cache, D-346	382502-001* 405693-001 ◆
+	3.2 GHz/533 MHz FSB, 256 KB cache, D-351	382503-001 ◆
Intel Pentium 4 Processors with thermal grease and alcohol pad		
+	2.8 GHz/800 MHz FSB, 1 MB cache (521) 64 bit	367594-001* 394643-001 ◆
+	2.93 GHz/533 MHz, 1 MB Cache (517)	417904-001 ◆
+	3.06 GHz/533 MHz, 1 MB Cache (519)	407325-001 ◆
+	3.0 GHz/800 MHz FSB, 2 MB cache (630) 64 bit EIST	392273-001 ◆
+	3.2 GHz/800 MHz FSB, 2 MB cache (640) 64 bit EIST	384786-001* 384796-001 ◆
+	3.4 GHz/800 MHz FSB, 2 MB cache (650) 64 bit EIST	384787-001 ◆
Other Cards		
+	PCI Modem, International, LP bracket	398661-001 ◆ 198220-005 ◆
+	FireWire 1394 card, 2 ext/1 int port, LP bracket	361551-001* 393307-001 ◆
Graphics Solutions		
+	nVidia, Quadro NVS280, PCI, 64 MB	351384-005* 398686-001 ◆
+	nVidia, Quadro NVS55, PCI, 64 MB	406412-001 ◆

+Not shown

LP= Low profile mounting bracket









## Miscellaneous Parts

1	Front bezel assembly with no inserts	386086-001 ◆
2	CD drive bezel with diskette drive slot	370501-001 ◆
+	CD drive bezel with diskette drive slot (no paint)	374792-001 ◆
3	CD drive bezel without drive slot	367852-001 ◆
4	CD drive bezel with Zip drive slot	not spared
5	Heatsink retention plate with thumbscrew	370709-001 ◆
+	Heatsink retention plate thumbscrew	393610-001 ◆
6	Heatsink with thermal grease and alcohol pad	367857-001* 382024-001 ◆
7	Speaker	368084-001* 399160-001 ◆
8	Chassis fan	392412-001 ◆ 366641-001* ◆
+	5.25" bay bezel blank (carbonite)	335937-001 ◆
+	Mouse, 2-button, PS/2 with scroll wheel	323614-005* 390937-001 ◆
+	Mouse, 2-button, USB, optical with scroll wheel	323615-005* 390939-001 ◆
+	Mouse, 2-button, USB, with scroll wheel	323617-005* 390938-001 ◆
+	Power switch holder with LED holders	370857-001 ◆
+	Real-time-clock battery	153099-001 ◆
+	Air duct baffle	375514-001 ◆
+	Tower stand	393604-001 ◆
+	Foot	370708-001 ◆

+Not shown



☒ You must remove the heatsink before removing the speaker. Make sure you clean the mating surfaces between the heatsink and the processor with the alcohol pad provided and apply fresh thermal grease when reinstalling the heatsink.

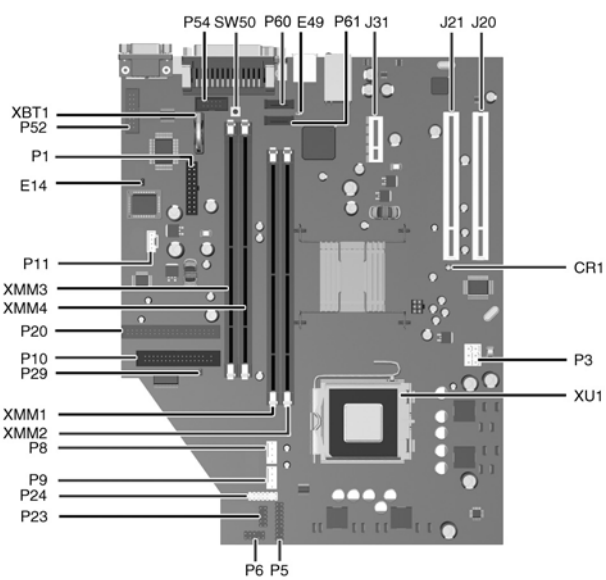
### Keyboards (not illustrated)

PS/2, Basic	355630-xxx*  , 382925-xxx 				
USB, Basic	355631-xxx*  , 382926-xxx 				
USB, Modular	355102-xxx* 				
USB SmartCard	393670-xxx 				
Arabic	-175	Hebrew [1]	-BB1	Portuguese	-135
Belgian	-185	Hebrew [2]	-BB5	Russian	-255
BHCSY	-B45	Hungarian	-215	Slovakian	-235
Brazilian Portuguese	-205	International [2]	-B35	Spanish	-075
Czech	-225	Italian	-065	Swedish [3]	-101
Danish	-085	Japanese	-295	Swedish [4]	-105
Europe [1]	-025	Korean (Hangul)	-KD5	Swiss	-115
Finnish	-355	LA Spanish	-165	Taiwanese	-AB5
French	-055	Netherlands [1]	-335	Thai	-285
French Arabic	-DE5	Norwegian	-095	Turkish	-145
French Canadian [2]	-125	Polish [1]	-245	U.S.	-005
German	-045	PRC	-AA5	U.K.	-035
Greek	-155				

[1] For 355102 only  
 [2] Not for 355102  
 [3] Not for 355630  
 [4] For 355630 only

### USB Basic Keyboard, Gray and Carbonite (not illustrated)

355632-xxx*  , 382927-xxx 					
Belgian	-185	German	-045	Swedish	-105
Danish	-085	International	-B35	Swiss	-115
French	-055	Italian	-065		



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

CR1	5CV Aux power LED	P23	Front audio
E14	Boot block	P24	USB connector, front panel
E49	Password jumper	P29	SCSI LED connector
J20	PCI slot 1	P52	Serial port "B"
J21	PCI slot 2	P54	Serial port "A"
J31	PCI Express x1	P60	Primary serial ATA (SATA) port
P1	Main power (24 pin)	P61	Secondary serial ATA (SATA) port
P3	Processor VccP Power 12V (6 pin)	SW50	CMOS button
P5	Main power switch/LED	XBT1	Battery
P6	Internal chassis speaker	XMM1	Memory socket
P8	Primary chassis fan	XMM2	Memory socket
P9	Secondary chassis fan	XMM3	Memory socket
P10	Diskette drive	XMM4	Memory socket
P11	Aux audio in	XU1	Microprocessor
P20	IDE		

### 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.

### Keyboard Diagnostic LEDs (PS/2 Keyboards Only)

LED	Color	LED Activity	State/Message
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.

### 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.

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

### Computer Setup (F10) Utility Features (features may vary)

File	System Information About Set Time and Date	Replicated Setup Default Setup Apply Defaults and Exit	Ignore Changes and Exit Save Changes and Exit
<b>Storage</b>	Device Configuration Storage Options	DPS Self-Test Boot Order	
<b>Security</b>	Setup Password Power-On Password Password Options Smart Cover Embedded Security	Drivelock Security Data Execution Prevention Master Boot Record Security Save Master Boot Record Restore Master Boot Record	Device Security Network Service Boot System IDs
<b>Power</b>	OS Power Management	Hardware Power Management	Thermal
<b>Advanced</b>	Power-On Options BIOS Power On Onboard Devices	PCI Devices Bus Options	Device Options PCI VGA Configuration