

Illustrated Parts & Service Map

HP Compaq 8000 and 8080 Elite Convertible Minitower Business PC



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Document Number 600574-002. 2nd Edition March 2010.



Key Specifications

| | |
|-----------------------|--|
| Processor Type | Intel® Celeron, Pentium Dual-Core, Core 2, Core2 Duo, Core2 Quad |
| RAM Type | DDR3-SDRAM DIMMs, PC3-10600 (1333 MHz) non-ECC |
| Maximum RAM Supported | 16 GB |
| Expansion Slots | <ul style="list-style-type: none"> (2) PCIe-x16 (1) PCIe-x1 (3) PCI |
| Chipset | Intel Q45 Express |
| Graphics Adapter | Integrated Intel GMA 4500 graphics |
| Bays | <ul style="list-style-type: none"> (3) external 5.25-inch (3) external 3.5-inch |
| I/O Interfaces | Front: (4) USB, microphone, headphone Rear: (6) USB, PS/2 keyboard and mouse, line in, line out, VGA, DisplayPort, RJ-45, (1) serial port |
| Operating Systems | <ul style="list-style-type: none"> Windows® Vista Windows 7 Windows XP FreeDos |

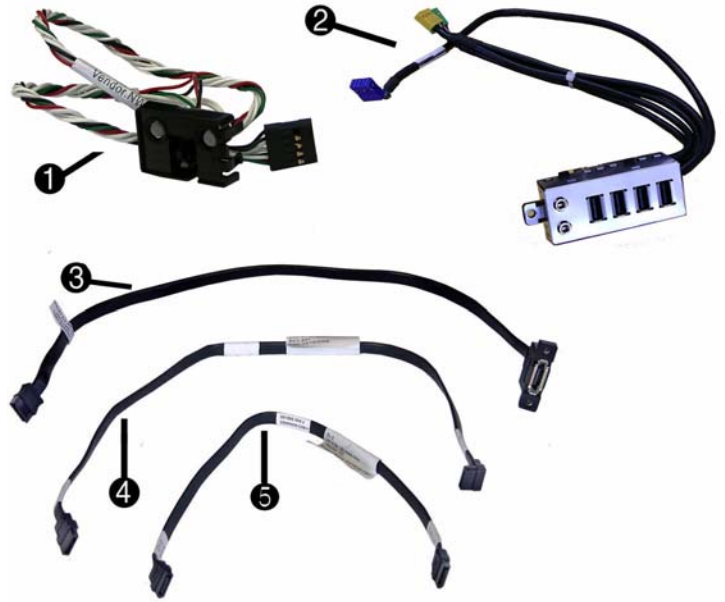
Spare Parts



System Unit

| | | |
|---|------------------------------------|------------|
| 1 | Access panel | 594636-001 |
| 2 | Front bezel for use in 8000 models | 593221-001 |
| 3 | Front bezel for use in 8080 models | 608265-001 |
| 4 | Chassis | not spared |
| 5 | Power supply, 325W, 89% efficient | 508154-001 |
| * | 5.25-inch bezel blank, jack black | 570838-001 |
| * | Power supply, 325W | 508153-001 |

* Not shown



Cables

| | | |
|---|---|------------|
| 1 | Power switch/LED assembly | 593218-001 |
| 2 | Front USB, I/O assembly, power switch | 593219-001 |
| 3 | eSATA port assembly | 497726-001 |
| 4 | SATA cable, hard drive | 593222-001 |
| 5 | SATA cable, optical drive | 593223-001 |
| * | SATA cable, 18 inch, 1 straight end, 1 angled end | 393958-001 |
| * | SATA cable, 24 inch | 392308-001 |
| * | SATA cable, 14 inch, 2 straight ends | 391740-001 |
| * | DMS-59 to dual VGA cable | 463023-001 |
| * | Adapter, DVI to VGA | 202997-001 |
| * | Adapter, DisplayPort to VGA | 484155-001 |
| * | Adapter, DisplayPort to DVI | 484156-001 |

*Not shown

Keyboards (not illustrated)

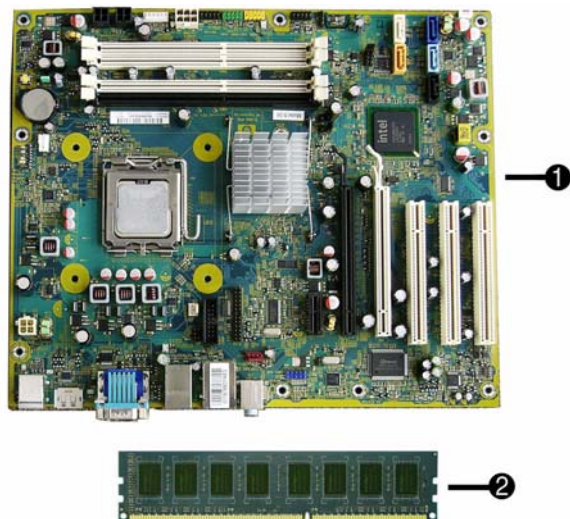
| | | | |
|-----------------------|------------|----------------------------|------|
| PS/2, Basic | 537745-xxx | | |
| USB, Basic | 537746-xxx | | |
| USB SmartCard | 537747-xxx | | |
| USB Mini[b] | 535873-xxx | | |
| Washable[b] | 577495-xxx | | |
| Arabic[a] | -171 | LA Spanish | -161 |
| Belgian[c] | -181 | Norwegian | -091 |
| BHCSY[c] | -B41 | People's Republic of China | -AA1 |
| BHCSY[d] | -BL1 | Portuguese | -131 |
| Brazilian Portuguese | -201 | Romanian[c] | -271 |
| Czech | -221 | Russian | -251 |
| Danish | -081 | Saudi Arabia | -DE1 |
| Finnish | -351 | Slovakian | -231 |
| French | -051 | South Korea | -KD1 |
| French Canadian | -121 | Spanish | -071 |
| German | -041 | Swedish | -101 |
| Greek | -151 | Swiss | -111 |
| Hebrew | -BB1 | Taiwanese | -AB1 |
| Hungarian | -211 | Thai | -281 |
| International[a] | -B31 | Turkish | -141 |
| International English | -L31 | U.S. | -001 |
| Italian | -061 | U.K. | -031 |
| Japanese | -291 | | |

[a] not for 537745
[b] only for -001, -121

[c] not for 537747
[d] only for 537747

Mass Storage Devices (not illustrated)

| | |
|--|------------|
| 16X SATA DVD±RW drive with LightScribe | 581059-001 |
| 16X SATA DVD-ROM drive | 581058-001 |
| Blu-ray ROM DVD±RW SuperMulti DL Drive | 581601-001 |
| 1 TB (10000 GB) SATA hard drive | 585465-001 |
| 500 GB SATA hard drive, 3.5-inch | 504339-001 |
| 320 GB USB hard drive | 591387-001 |
| 320 GB SATA hard drive, 3.5-inch | 504338-001 |
| 250 GB SATA hard drive, 3.5-inch | 504337-001 |
| 160 GB, 10000-RPM SATA hard drive, 2.5-inch with adapter | 508312-001 |
| 160 GB SATA hard drive | 504336-001 |
| 64 GB Solid State Drive (SSD) | 581057-001 |



Standard and Optional Boards

| System boards with thermal grease, alcohol pad, and CPU socket cover | | |
|--|---|------------|
| 1 | System board | 536883-001 |
| * | System board, excludes ES/CS | 593215-001 |
| Memory modules (PC3-10600, CL9) | | |
| 2 | 1 GB | 576109-001 |
| * | 2 GB | 576110-001 |
| * | 4 GB | 585157-001 |
| Other boards | | |
| * | Saffron WLAN 802.11a/b/g for use world-wide, includes bracket | 538048-001 |
| * | Modem, PCIe, 56K, Agere International 56K, includes bracket | 490689-001 |
| * | ATI HD4550 (RV710), 256-MB PCIeX16 graphics card | 584217-001 |
| * | ATI HD4650 (RV730), 1-GB PCIeX16 graphics card | 538052-001 |
| * | GeForce GT310 512-MB PCIeX16 graphics card | 572029-001 |
| * | nVidia Quadro NVS295 256-MB PCIe graphics card | 578226-001 |
| * | nVidia Quadro NVS290 256-MB graphics card, low profile, includes brkt | 456137-001 |
| * | nVidia Quadro NVS290 256-MB graphics card, full-height | 460815-001 |
| * | Broadcom NetXtreme Gbit Ethernet Plus NIC | 488293-001 |
| * | Video card, SDVO, ADD2, DVI-D, includes bracket | 398333-001 |
| * | Intel Gigabit NIC, includes bracket | 490367-001 |
| * | TV tuner graphics card | 582725-001 |
| * | 1394 card, full height | 515182-001 |
| Intel Celeron Processors with alcohol pad and thermal grease | | |
| * | 450, 2.2 GHz, 512-KB cache, single core | 508256-001 |
| Intel Pentium Dual Core Processors with alcohol pad and thermal grease | | |
| * | E5400, 2.7 GHz, 2-MB L2 cache | 586743-001 |
| * | E3300, 2.5 GHz, 1-MB L2 cache | 585886-001 |
| * | E3200, 2.5 GHz, 1-MB L2 cache | 585885-001 |
| Intel Core 2 Quad Processors with alcohol pad and thermal grease | | |
| * | Q9650, 3.00 GHz, 12-MB L2 cache | 497734-001 |
| * | Q9550, 2.83 GHz, 12-MB L2 cache | 465758-001 |
| * | Q9550S, 2.83 GHz, 12-MB L2 cache | 593228-001 |
| * | Q9505S, 2.83 GHz, 6-MB L2 cache (65W) | 593229-001 |
| * | Q9505, 2.83 GHz, 6-MB L2 cache (95W) | 591607-001 |
| * | Q8400S, 2.66 GHz, 4-MB L2 cache | 593227-001 |
| Intel Core 2 Duo Processors with alcohol pad and thermal grease | | |
| * | E8600, 3.33 GHz, 6-MB L2 cache | 497732-001 |
| * | E8500, 3.16 GHz, 6-MB L2 cache | 466170-001 |
| * | E8400, 3.00 GHz, 6-MB L2 cache | 509554-001 |
| * | E7600, 3.06 GHz, 3-MB L2 cache | 573954-001 |
| * | E7500, 2.93 GHz, 3-MB L2 cache | 583006-001 |
| * | E6500, 2.93 GHz, 2-MB L2 cache | 586748-001 |
| * | E6300, 2.80 GHz, 2-MB L2 cache | 580748-001 |
| * | E5300, 2.60 GHz, 2-MB L2 cache | 516900-001 |

* Not shown

Miscellaneous Parts

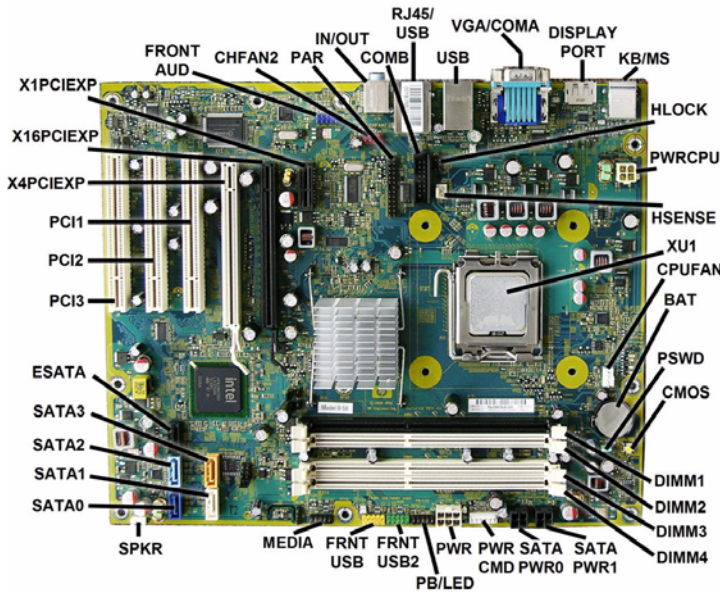
| | | |
|---|---|------------|
| 1 | Fan, heatsink | 593217-001 |
| 2 | Speaker | 392413-001 |
| 3 | Chassis fan | 593220-001 |
| 4 | 2nd serial port | 392414-001 |
| * | Card reader, 22-in-1 | 480032-001 |
| * | Adapter, 5.25-inch to 3.25-inch, includes bezel | 593226-001 |
| * | Adapter, 2.5-inch | 586721-001 |
| * | Hood sensor | 392417-001 |
| * | Grommet, hard drive isolation | 450712-001 |
| * | Solenoid lock | 392416-001 |
| * | USB powered speakers | 571536-001 |
| * | Mouse, PS2, optical, jack black | 537748-001 |
| * | Mouse, optical, jack black | 537749-001 |
| * | Mouse, laser, jack black | 570580-001 |
| * | Printer port | 497727-001 |
| * | Modem cable | 198220-001 |
| * | Hard drive, removable carrier, DataPort | 580619-001 |
| * | Clamp lock, includes universal cable (plate not included) | 508987-001 |

*Not shown

Modem RJ-11 adapters (not illustrated)

| | | | |
|-----------------|------------|----------------|------------|
| Austrian | 417561-011 | Italian | 316904-065 |
| Belgian | 316904-181 | Netherlands | 316920-335 |
| Czechoslovakian | 234963-221 | Polish | 316904-241 |
| French | 316904-051 | Saudi Arabian | 316904-AR1 |
| German | 316904-045 | Scandinavian | 382848-DH1 |
| Greek | 316904-151 | Swiss | 417562-111 |
| Hungarian | 234963-215 | Turkish | 316904-141 |
| Israel | 316904-BB1 | United Kingdom | 158593-035 |

System Board



System Board Connectors and Jumpers (component location may vary)

| | | | |
|--------------|------------------------------|-----------|-------------------------------|
| FRNT AUD | Front panel connector | SATA PWR0 | Optical drive power connector |
| CHFAN2 | System fan connector | PWR CMD | Power connector |
| PAR | Parallel port connector | PWR | Main power connector |
| IN/OUT | Double stack audio connector | PB/LED | Power switch connector |
| COMB | 2nd media reader connector | FRNT_USB2 | 2nd USB connector |
| RJ45/USB | Stacked RJ-45/USB connectors | FRNT_USB | 1st USB connector |
| USB | USB connector | MEDIA | Media card reader connector |
| VGA/COMA | Stacked VGA/serial connector | SPKR | Speaker connector |
| DISPLAY-PORT | DisplayPort connector | SATA1 | Primary SATA hard drive |
| KB/MS | PS/2 connectors | SATA2 | 1st SATA optical drive |
| HLOCK | Hood lock connector | SATA3 | 2nd SATA optical drive |
| PWRCPU | CPU power connector | SATA4 | 2nd SATA hard drive |
| HSENSE | Hood sensor connector | ESATA | Internal eSATA connector |
| XU1 | Processor socket | PCI3 | PCI slot 3 |
| CPUFAN | CPU/heat sink fan connector | PCI2 | PCI slot 2 |
| BAT | Battery socket | PCI1 | PCI slot 1 |
| PSWD | Password header | X4PCEXP | PCIe X16, slot 1 |
| CMOS | CMOS header | X16PCIEXP | PCIe X16, slot 2 |
| DIMM1-4 | Memory sockets | X1PCIEXP | PCIe X1 slot |
| SATA PWR1 | Hard drive power connector | | |

System Setup and Boot

Basic system information regarding system information, setup, power management, hardware, and passwords is maintained in the Setup Utility held in the system ROM. The Setup Utility is accessed by pressing the F10 key when prompted (on screen) to do so during the boot sequence. If the screen prompt opportunity is missed, a restart will be necessary. For more information about Setup Utilities refer to the *Service Reference Guide*.

Computer Setup Menu

| Heading | Option/Description |
|---------|---|
| File | System Information - Lists the following main system specifications: <ul style="list-style-type: none"> Product name SKU number (some models) Processor type/speed/stepping Cache size (L1/L2) Installed memory size/speed/channels Integrated MAC Address System BIOS Chassis serial number Asset tracking number ME firmware version Management node |
| | About - Displays copyright notice. |
| | Set Time and Date - Allows you to set system time and date. |
| | Flash System ROM - Allows you to select a drive containing a new BIOS. |
| | Replicated Setup - Save to Rmv Media and Restore from Rmv Media |
| | Default Setup <ul style="list-style-type: none"> Save Current Settings as Default Restore Factory Settings as Default |
| | Apply Defaults and Exit - Applies the selected default settings and clears any established passwords. |
| | Ignore Changes and Exit - Exits Computer setup without saving changes. |
| Storage | Device Configuration - Lists all installed BIOS-controlled storage devices. The following options are available: <ul style="list-style-type: none"> CD-ROM Hard Disk Default Values SATA Defaults Translation Mode Removable Media Boot eSATA Port Max eSATA Speed SATA Emulation |
| | DPS Self-Test - Allows you to execute self-tests on ATA hard drives. |
| | Boot Order - Allows you to specify boot order. <ul style="list-style-type: none"> Shortcut to Temporarily Override Boot Order |

Computer Setup Menu (Continued)

| Heading | Option / Description |
|---|---|
| Security | Setup Password - Allows you to set and enable the setup (Administrator) password. |
| | Power-On Password - Allows you to set and enable power-on password. |
| | Password Options - When any password exists allows you to lock legacy resources, enable/disable network server mode, specify password requirement for warm boot, and allows you to enable/disable Setup Browse Mode. |
| | Smart Cover (some models) - Allows you to lock/unlock cover lock and set status of cover removal sensor. |
| | Device Security (some models) - Enables/disables all I/O ports, audio, network controllers, SMBus controller, SATA ports, eSATA, and embedded security devices. |
| | USB Security - Allows you to set Device Available/Device Hidden for front USB ports 3-6, rear USB ports 7-12, internal USB ports 1-2. |
| | Slot Security - Allows you to disable any PCI or PCI Express slot. |
| | Network Service Boot - Enables/disables boot from OS on a server. |
| | System IDs - Allows you to set Asset tag, Ownership tag, Chassis serial number, UUID, and keyboard locale setting. |
| | DriveLock Security - Allows you to assign/modify a hard drive password for added security. |
| | System Security (some models) - Allows you to enable/disable: <ul style="list-style-type: none"> Data Execution Prevention PAVP (Protect Audio Video Path) (some models) Virtualization Technology Virtualization Technology Directed I/O Trusted Execution Technology Embedded Security Device Support OS management of Embedded Security Device through OS |
| Power | Master Boot Record Security - Protects the master boot record from viruses or other corruption. Saves of copy of the current master boot record. |
| | Setup Security Level - Provides method to allow users limited access to change specified setup options without knowing Setup password. |
| | OS Power Management - Allows you to enable/disable Runtime Power Management, Idle Power Savings, ACPI S3 Hard Disk Reset, ACPI S3 PS2 Mouse Wakeup, USB Wake on Device Insertion (some models), Unique Sleep State Blink Rates. |
| Advanced | Hardware Power Management - Allows you to enable/disable SATA bus power management and S5 maximum power savings. |
| | Thermal - Allows you to control minimum permitted fan idle speed. |
| | Power-On Options - Allows you to set: <ul style="list-style-type: none"> POST mode - QuickBoot, FullBoot, Clear Memory, FullBoot every x days POST messages - Enable/disable F9 prompt - Enable/disable F10 prompt - Enable/disable F12 prompt - Enable/disable Factory Recovery Boot Support - Enable/disable Option ROM prompt - Enable/disable Remote wakeup boot source - Remote server/local hard drive After Power Loss - Off/on/previous state POST delay - None, 5, 10, 15, or 20 seconds Bypass F1 Prompt on Configuration Changes - Enable/disable |
| | Execute Memory Test (some models) - Restarts computer and executes POST memory test. |
| | BIOS Power-On - Allows you to set the computer to turn on at a preset time. |
| | Onboard Devices - Allows you to set resources or disable onboard system devices. |
| | PCI Devices - Lists installed PCI devices with their IRQ settings and allows you to reconfigure IRQ or disable devices. |
| | PCI VGA Configuration - Allows you to specify which VGA controller will be used when multiple video adapters are available. |
| | Bus Options (some models) - Allows you to enable/disable PCI SERR# Generation and PCI VGA palette snooping. |
| | Device Options - Allows you to set: <ul style="list-style-type: none"> Printer Mode - Bi-Directional, EPP & ECP, Output Only Num Lock state at power-on - off/on S5 Wake on LAN - enable/disable Multi-Processor - enable/disable Internal speaker - enable/disable Monitor Tracking - enable/disable NIC PXE Option ROM Download - enable/disable |
| Management Devices - Only displayed in Advanced menu when BIOS detects multiple management options. | |
| Management Operations - Allows you to set: <ul style="list-style-type: none"> MEBx Setup Prompt - enable/disable Intel Remote PC Assist Prompt - enable/disable Intel PC Assist Timeout - 5, 10, 15, 20, 30, 40, 50, 60, 120, 180, 240 seconds SOL Character Echo - enable/disable SOL Terminal Emulation Mode - enable/disable SOL Keyboard - enable/disable Unprovision AMT on next boot | |

Password Security

Establishing a Setup or Power-On password:

1. Turn on or restart the computer. If you are in Windows, click **Start > Shut Down > Restart**.
2. As soon as the computer is turned on, press **F10** when the monitor light turns green to enter Computer Setup. Press **Enter** to bypass the title screen, if necessary. If you do not press **F10** when prompted, a restart will be necessary.
3. To establish a Setup password, select **Security > Setup Password** and follow the instructions on the screen.
- or -
To establish a Power-On password, select **Security > Power-On Password** and follow the instructions on the screen.
4. Before exiting, click **File > Save Changes and Exit**.

Changing a Setup or Power-On password:

1. Turn on or restart the computer. If you are in Windows, click **Start > Shut Down > Restart**. To change the Setup password, go to step 2.
To change the Power-on password, go to step 3.
2. To change the Setup password, as soon as the computer is turned on, press **F10** when the monitor light turns green to enter Computer Setup. Press **Enter** to bypass the title screen, if necessary.
3. When the key icon appears, type your current password, a slash (/) or alternate delimiter character, your new password, another slash (/) or alternate delimiter character, and your new password again as shown:

current password/new password/new password.

NOTE: Type the new password carefully since the characters do not appear on the screen.

4. Press **Enter**.

The new password will take effect the next time the computer is restarted.

Deleting a Power-On or Setup password

1. Turn on or restart the computer. If you are in Windows, click **Start > Shut Down > Restart**. To delete the Setup password, go to step 2.
To delete the Power-On password, go to step 3.
2. To change the Setup password, as soon as the computer is turned on, press **F10** when the monitor light turns green to enter Computer Setup. Press **Enter** to bypass the title screen, if necessary.
3. When the key icon appears, type your current password followed by a slash (/) or alternate delimiter character as shown. Example: **currentpassword/**
4. Press **Enter**.

Hewlett-Packard Vision Diagnostics

The Hewlett-Packard Vision Diagnostics utility allows you to view information about the hardware configuration of the computer and perform hardware diagnostic tests on the subsystems of the computer. The utility simplifies the process of effectively identifying, diagnosing, and isolating hardware issues.

Use HP Vision Diagnostics to determine if all the devices installed on the computer are recognized by the system and functioning properly. Running tests is optional but recommended after installing or connecting a new device.

To access HP Vision Diagnostics, you must create a Recovery Disc Set then boot to the CD containing the utility. It can also be downloaded from <http://www.hp.com> and either burned to CD or installed to a USB flash drive.

1. In Windows Explorer, go to **C:\SWSetup\ISOs** and burn the file **Vision Diagnostics.ISO** to a CD or copy it to a USB flash drive.
2. While the computer is on, insert the CD in the Optical Drive or USB flash drive in a USB port on the computer.
3. Shut down the operating system and turn off the computer.
4. Turn on the computer. The system will boot into HP Vision Diagnostics.
NOTE: If the system does not boot to the CD in the optical drive or to the USB flash drive, you may need to change the boot order in the Computer Setup (F10) utility.
5. At the boot menu, select either the **HP Vision Diagnostics** utility to test the various hardware components in the computer or the **HP Memory Test** utility to test memory only.
NOTE: The HP Memory Test is a comprehensive memory diagnostic utility that is run as a stand-alone application, outside of HP Vision Diagnostics.
6. If running **HP Vision Diagnostics**, select the appropriate language and click **Continue**.
7. In the End User License Agreement page, select **Agree** if you agree with the terms. The HP Vision Diagnostics utility launches with the Survey tab displayed.

Clearing CMOS

1. Turn off the computer and any external devices, and disconnect the power cord from the power outlet.
2. Remove the chassis access panel.
3. On the system board, press and hold the CMOS button for 5 seconds.
4. Replace the chassis access panel and reconnect the power cord.
5. Turn on the computer and allow it to start.

Diagnostic LEDs

| LED | Color | LED Activity | State/Message |
|-------|-------|--|---|
| Power | Green | On | Computer on |
| Power | Green | 1 blink every 2 seconds | Normal Suspend Mode |
| Power | Red | 1 blink every second followed by a 2 second pause | CPU thermal shutdown |
| Power | Red | 3 blinks, 1 blink every second followed by a 2 second pause | Processor not installed |
| Power | Red | 4 blinks, 1 blink every second followed by a 2 second pause | Power failure (power supply overload) |
| Power | Red | 5 blinks, 1 blink every second followed by a 2 second pause | Pre-video memory error |
| Power | Red | 6 blinks, 1 blink every second followed by a 2 second pause | Pre-video graphics error |
| Power | Red | 7 blinks, 1 blink every second followed by a 2 second pause | System board failure (ROM |
| Power | Red | 8 blinks, 1 blink every second followed by a 2 second pause | Invalid ROM based on Checksum |
| Power | Red | 9 blinks, 1 blink every second followed by a 2 second pause | System powers on but is unable to boot |
| Power | Red | 10 blinks, 1 blink every second followed by a 2 second pause | Bad option card |
| Power | Red | 11 blinks, 1 blink every second followed by a 2 second pause | The current processor does not support a feature previously enabled on this system. |
| none | none | System does not power on and LEDs are not flashing | System unable to power on |

Common POST Error Messages

| Screen Message | Probable Cause | Recommended Action |
|--|--|---|
| 101-Option ROM Error | 1. System ROM checksum error. 2. Expansion board option ROM checksum | 1. Verify ROM, reflash if required 2. Remove suspected card, reboot 3. Clear CMOS memory, reboot 4. Replace system board |
| 103-System Board Failure | DMA, timers | 1. Clear CMOS memory. 2. Remove expansion boards. 3. Replace system board. |
| 164-Memory Size Error and 201-Memory Error | Incorrect memory configuration | 1. Run Setup (F10). 2. Check DIMMs for proper seating, type, and HP compatibility. 3. Remove DIMMs singularly and reboot to isolate faulty DIMM. 4. Replace system board. |
| 214-DIMM Configuration Warning | Populated DIMM configuration is not optimized | Rearrange the DIMMs so that each channel has the same amount of memory. |
| 301-, 304-Keyboard error | Keyboard failure. | Check keyboard connection or keys. Check connector for bent or missing pins. Replace keyboard. If 304, possible system board problem. |
| 501-Display Adapter Failure | Graphics display controller. | 1. Reseat graphics card. 2. Clear CMOS. 3. Check monitor connection. 4. Replace graphics card. |
| 1720-SMART Hard Drive Detects Imminent Failure | Hard drive is about to fail. | 1. Determine if hard drive is giving correct error message. Enter Computer Setup and run the Drive Protection System test under Storage > DPS Self-test . 2. Apply hard drive firmware patch if applicable. 3. Back up contents and replace hard drive. |
| 1796-SATA Cabling Error | One or more SATA devices are improperly attached. For optimal performance, the SATA 0 and SATA 1 connectors must be used before SATA 2 and SATA 3. | Ensure SATA connectors are used in ascending order. For one device, use SATA 0. For two devices, use SATA 0 and SATA 1. For three devices, use SATA 0, SATA1, and SATA 2. |
| 1801-Microcode Patch Error | Processor not supported by ROM BIOS. | 1. Upgrade BIOS to proper version. 2. Change the processor. |

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TV manuals search

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