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Compaq Presario

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Part Number 202126-001
Replacing the System Board

The *System Board* in your computer is the home of the central processing unit (CPU) and its supporting cards. The system board (or Mother Board) lies on one side of the computer beneath the add-in cards. The add-in cards, such as modem, sound, and graphics, are mounted upright in slots on the system board along with other internal devices that connect directly to the system board.

Introduction

Your Compaq Presario Internet PC has an Easy Access panel that makes accessing the internal parts easy. This document describes how to remove and replace the system board (see Figure 1-1).

![Figure 1-1](image)

**Important:** The view shown may vary slightly by model.
Tools Needed

A Phillips screwdriver is needed to remove and replace the system board.

Warranty Statement

Compaq provides these detailed instructions to ensure your safety and to keep your PC from being damaged. Following these instructions also ensures that your PC remains warranted by Compaq.

Your replacement part is warranted for the longer of 90 days from the date the part was delivered to you, or the original One Year Limited Warranty that came with your Compaq Presario.

Preparing Your Computer for Disassembly

Before beginning the removal and replacement procedure, complete the following procedure:

1. Remove any diskette or compact discs (CDs) from the computer.
2. Turn off the computer and any peripheral devices connected to your computer (see Figure 1-2).
3. Disconnect the power cord from the electrical outlet, and then from the computer (see Figure 1-3).
4. Disconnect all peripheral device cables from the computer.

Failure to disconnect the power from the computer may result in personal injury.
I. Disconnecting the Power

1. Turn off the computer using the **Power button** (see Figure 1-2).

![Figure 1-2](image)

2. Disconnect the **power cord** from the electrical outlet ① and from the computer ② (see Figure 1-3).

![Figure 1-3](image)

**Warning**

*Failure to disconnect the power from the computer may result in personal injury.*
II. Opening the Side Access Panel

1. Remove the screw 1 securing the side access panel. Locate the latch 2 directly below the screw, press it down, and hold the latch in the down position (see Figure 2-1).

**Figure 2-1**

**Important:** Some models may not have a screw 1. This screw is used for shipping purposes only.

2. Grab the handle and slide the side panel from the chassis (see Figure 2-2).

**Caution:** Before doing any work inside your computer, ground yourself by touching a metal part of the chassis.

**Figure 2-2**
III. Locating the System Board

Turn the computer on its side (open side facing up) and locate the system board (see Figure 3-1).

Figure 3-1

Important: The location of the system board components may vary slightly by model.
IV. Removing the Data Cables from the System Board

Disconnect the diskette drive ①, hard drive ②, and CD-ROM ③, CD-RW ④, and/or DVD drive ⑤ data cables from the system board (see Figure 4-1).

Figure 4-1
V. Removing the Memory Module

To remove the memory module, complete the following procedure:

1. With the computer on its side (open side facing up), locate the memory module (see Figure 5-1).

2. Press outward on the release latches found at each end of the memory slot. Lift the memory module from the memory slot (see Figure 5-1). The number of memory modules may vary depending upon your system's configuration.

Figure 5-1
VI. Locating the Microprocessor/Heatsink Assembly

See the illustration below for the location of the heatsink lock tabs 1, heatsink power supply fan cable 2, heatsink 3, microprocessor interface 4 (see Figure 6-1).

**Figure 6-1**

*Important:* The location of the microprocessor/heatsink assembly may vary slightly by model.
VII. Removing the Microprocessor/Heatsink Assembly

To remove the microprocessor/heatsink assembly, complete the following procedure:

1. With the computer on its side (open side facing up), locate the microprocessor (see Figure 7-1).

2. Disconnect the heatsink power supply fan cable 1 (see Figure 7-1).

3. Pull forward on the heatsink lock tabs 2 (located at the base) to release the processor.

The microprocessor may still be hot if the computer was recently used. Allow the microprocessor to cool before removing.
4. Push in the release tabs ❶ on the end of the processor and lift the processor ❷ from the chassis (see Figure 7-2).
VIII. Identifying and Locating Different Expansion Cards

The Expansion Card Chart below shows various types of expansion cards. This chart will help you to identify the different types of expansion cards such as a modem 1 and a Network Interface Card (NIC) 2 that can be added to your computer (see Figure 8-1).

Figure 8-1 (rear view of chassis)

Important: These expansion cards may fit into any available PCI slot. The number of PCI slots may vary by model.
IX. Removing the Expansion Card

1. With the computer on its side (open side facing up), locate the expansion card(s) (see Figure 9-1).

2. Remove the screw securing the expansion card (see Figure 9-1).

3. Using a gentle rocking motion, pull the expansion card from the PCI slot on the system board (see Figure 9-1).

**Important:** Keep the screw that secured the card to the chassis. You will need it when replacing the card.
X. Removing the Sound Card

1. With the computer on its side (open side facing up), locate the sound card (see Figure 10-1).

2. Remove the audio cable that is connected to the sound card (see Figure 10-1).

**Important:** The number of audio cables may vary depending on your computer's configuration.
3. Remove the screw 1 securing the sound card (see Figure 10-2).

**Important:** Keep the screw 1 that secured the card to the chassis. You will need it when replacing the card.

4. Using a gentle rocking motion, pull the sound card from the PCI slot 2 on the system board (see Figure 10-2).
XI. Locating The Graphics Card

See the illustration for the location of the graphics card \(^1\) and the AGP slot \(^2\) on the system board (see Figure 11-1).

**Important:** The location of the AGP slot may vary slightly by model. The AGP slot is the first in a series of slots on the system board and is usually the slot located closest to the microprocessor/heatsink assembly.

**Tip**
Some units may not include an AGP slot or a graphics card. If your unit does not include these components, you can skip Step XII - Removing the Graphics Card and Step VII - Replacing the Graphics Card.
XII. Removing the Graphics Card

To remove the graphics card, complete the following procedure:

1. With the computer on its side (open side facing up), locate the graphics card (see Figure 12-1).

2. Remove the screw \textit{1} securing the graphics card (see Figure 12-1). Keep the screw \textit{1} that secured the card to the chassis. You will need it when replacing the card.

3. Using a gentle rocking motion, pull the \textbf{graphics card} from the AGP slot \textit{2} on the system board (see Figure 12-1).
XIII. Disconnecting the Power Supply, Front I/O (USB), and Power Button Cables

1. Push the power supply cable clip 1 inward and pull the power supply cable from the connector 2 on the system board (see Figure 13-1).
2. Disconnect the Front I/O (USB) cable from the system board (see Figure 13-2).

Figure 13-2
3. Disconnect the power button cable from the system board (see Figure 13-3).
XIV. Removing the System Board

1. Remove the nine screws that secure the system board to the chassis (see Figure 14-1).

![Figure 14-1](image)

**Important:** The number of screws and their location may vary by model.
2. Lift the system board out of the chassis (see Figure 14-2).
I. Replacing the System Board and Components

1. Position the replacement system board inside the chassis (see Figure 1-1).

Note: Save all the packing materials received with your replacement system board. You will need them to return the defective part.
2. Replace the nine screws that secure the system board to the chassis (see Figure 1-2).

**Important:** The number of screws and their locations may vary slightly by model.
3. Reconnect the power supply cable to the system board (see Figure 1-3).

Figure 1-3
4. Reconnect the Front I/O (USB) cable to the system board (see Figure 1-4).
5. Reconnect the power button cable to the system board (see Figure 1-5).

Figure 1-5
II. Reconnecting the Data Cables to the System Board

Reconnect the CD-ROM 1, CD-RW 1, and/or DVD 1, hard drive 2, and diskette drive 3 data cables to the system board (see Figure 2-1).
III. Replacing the Memory Module

To replace the memory module, complete the following procedure:

1. Align the memory module 1 with the memory slot. Push the module carefully and firmly into the slot, ensuring that the latches 2 on both ends snap into place (see Figure 3-1).

Note: Replace the memory module into its same memory slot.
IV. Replacing the Microprocessor/Heatsink Assembly

To replace the microprocessor/heatsink assembly, complete the following procedure:

1. Align the microprocessor 1 with the microprocessor interface on the system board and place the microprocessor inside the release tabs 2 (see Figure 4-1). The microprocessor should align with the interface in only one way.

2. Insert the microprocessor carefully and firmly into the microprocessor interface (see Figure 4-1).
3. Re-attach the heatsink lock tabs 🅱️ that also hold the microprocessor/heatsink assembly into place.

4. Reconnect the **heatsink power supply fan cable 🅲** to the system board (see Figure 4-2).

![Figure 4-2](image-url)
V. Replacing the Expansion Card

1. Align the expansion card with the PCI slot 1 on the system board, and align the expansion card rear connector(s) with the rear connector slot on the chassis (see Figure 5-1).

**Important:** The expansion card rear connector(s) must be properly inserted into the rear chassis slot to ensure the card is properly seated into the PCI slot 1 on the system board.

2. Replace the screw 2 to secure the expansion card to the chassis (see Figure 5-1).
VI. Replacing the Sound Card

1. Align the sound card with the PCI slot on the system board.

2. Insert the sound card carefully and firmly into the same PCI slot from which the card was removed (see Figure 6-1).

3. Replace the screw to secure the sound card to the chassis (see Figure 6-1).
4. Reconnect the audio cable(s) to the same connector(s) on the sound card (see Figure 6-2).

Figure 6-2

**Important:** The number of audio cables may vary depending on your computer's configuration.
VII. Replacing the Graphics Card

To replace the graphics card, complete the following procedure:

1. Align the graphics card with the AGP slot 1 on the system board. Insert the card carefully and firmly into the AGP slot (see Figure 7-1).

2. Replace the screw 2 to secure the graphics card to the chassis (see Figure 7-1).

Figure 7-1
VIII. Replacing the Side Access Panel

Align the tabs on the top and bottom of the side access panel with the slots (located on the top and bottom edge) of the chassis. Slide the side access panel into place (see Figure 8-1).

Did you know ...

You do not have to replace the screw securing the side access panel. The screw securing the side panel is used for shipping purposes only.
IX. Checking To See If the Replacement Part Is Installed Properly

1. Reconnect the power cable to the wall and computer.

2. Turn on the computer to verify that the replacement part is properly installed.

3. If the problem persists, repeat the Removing and Replacing procedures.

4. If you are still experiencing problems, contact Compaq Support: 1-800-984-9350.

X. Returning The Defective Part

Please refer to the Compaq Part Return Instructions that came with your replacement part for instructions on returning the defective part.