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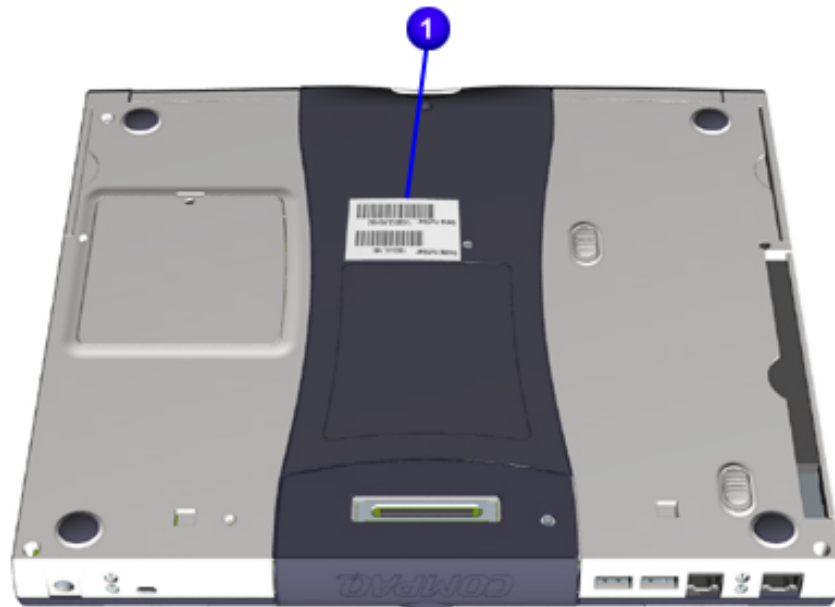
Presario 1700 Series
Models: XL260, XL261, XL262, XL264, XL265, XL266, XL274, XL275, XL360, XL361, XL362, XL363, XL364, XL365, XL366, XL367, XL368, XL369, XL370, XL371, XL372, XL373, XL374, XL375, XL376, XL377, and XL378

Removal Sequence

This section explains the removal and replacement procedures for the 1700XL unit.

Serial Number Location

Report the unit's serial number ① to Compaq when requesting information or ordering spare parts. The serial number is located underneath the Notebook as shown below.

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Electrostatic Discharge

A sudden discharge of static electricity from a finger or other conductor can destroy static-sensitive devices or microcircuitry. Often the spark is neither felt nor heard, but damage occurs. An electronic device exposed to electrostatic discharge (ESD) may work perfectly throughout a normal cycle and may not seem to be affected at all. However, although it may function normally for a while, it may be degraded in the internal layers, reducing its life expectancy.

Networks built into many integrated circuits provide some protection, but in many cases, the discharge contains enough power to alter device parameters or melt silicon junctions.

Generating Static

The table below shows activities that generate static electricity and the associated electrostatic voltage level.

Typical Electrostatic Voltages			
Activity	**Relative Humidity**		
	10%	**40%**	**55%**
Walking across carpet	35,000 V	15,000 V	7,500 V
Walking across vinyl floor	12,000 V	5,000 V	3,000 V
Motions of bench worker	6,000 V	800 V	400 V
Removing DIPS from plastic tubes	2,000 V	700 V	400 V
Removing DIPS from vinyl trays	11,500 V	4,000 V	2,000 V
Removing DIPS from styrofoam	14,500 V	5,000 V	3,500 V
Removing bubble pack from PCBs	26,000 V	20,000 V	7,000 V
Packing PCBs in foam-lined box	21,000 V	11,000 V	5,000 V
Note: 700 Volts can degrade a product.			

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Service Considerations

Listed below are some of the considerations to consider during the assembly and disassembly of the Notebook.

Tool and Software Requirements

The following items are required to service the computer:

- 5mm nut drivers (for screwlocks and standoffs)
- Small standard screwdriver
- Small Phillips screwdriver
- Diagnostics software

Screws

The screws used in the Notebook are **not** interchangeable. If an incorrect screw is used during the reassembly process, it can damage the unit. Compaq strongly recommends that all screws removed during disassembly be kept with the part that was removed, then returned to their proper locations.

> **Important:** As each subassembly is removed from the Notebook, place it away from the work area to prevent damage.

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Cables and Connectors

Most cables used throughout the unit are ribbon cables. Cables must be handled with extreme care to avoid damage. Apply only the tension required to seat or unseat the cables during insertion or removal from the connector. Handle cables by the connector whenever possible. In all cases, avoid bending, twisting, or tearing the cables, and ensure that the cables are routed in such a way that they cannot be caught or snagged by parts being removed or replaced.

Cables

Use the following precautions when handling cables to avoid damage to the cable or the Notebook:

- Always handle cables by their connectors.

- Avoid bending, twisting, or pulling on the cables.

- Apply minimum required force when seating or unseating the cables from their connectors.

- Place the cables carefully so that they cannot be caught or snagged by parts being removed or replaced.

- Handle flex cables with extreme care; they can tear easily.

    ⚠ **CAUTION:** When servicing these computers, ensure that cables are placed in their proper location during the reassembly process. Improper cable placement can cause severe damage to the unit.

The following illustrations show the proper placement for each cable:

- [ZIF Connectors](#)
- [Speaker Assembly Cable](#)

Connectors and Plastic Parts

Plastic parts can be damaged by the use of excessive force during disassembly and reassembly. When handling the plastic parts, use care. Apply pressure only at the points designated in the maintenance instructions.
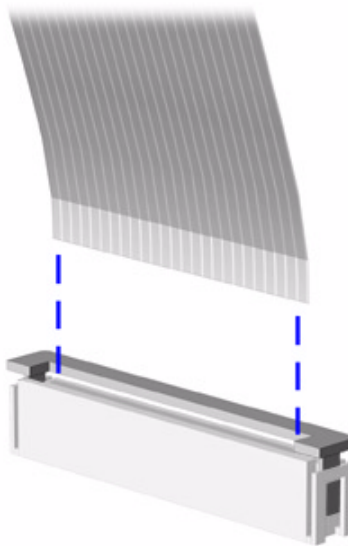
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ZIF Connectors

The 1700LX Series Notebook uses zero insertion force (ZIF) connectors on the system board.

⚠ **CAUTION:** A ZIF connector and its attached cable can be easily damaged. Handle only the connector slide when removing or replacing a cable. Never pull or twist on the cable while it is connected.

To remove a cable from a ZIF connector, lift both corners of the ZIF connector and simultaneously slide the cable out with constant light force.

⚠ **CAUTION:** When servicing the Notebook, ensure that cables are placed in their proper location during the reassembly process. Improper cable placement can damage the Notebook.

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Speaker Assembly Cable

The cable position for the speaker assembly is shown below.
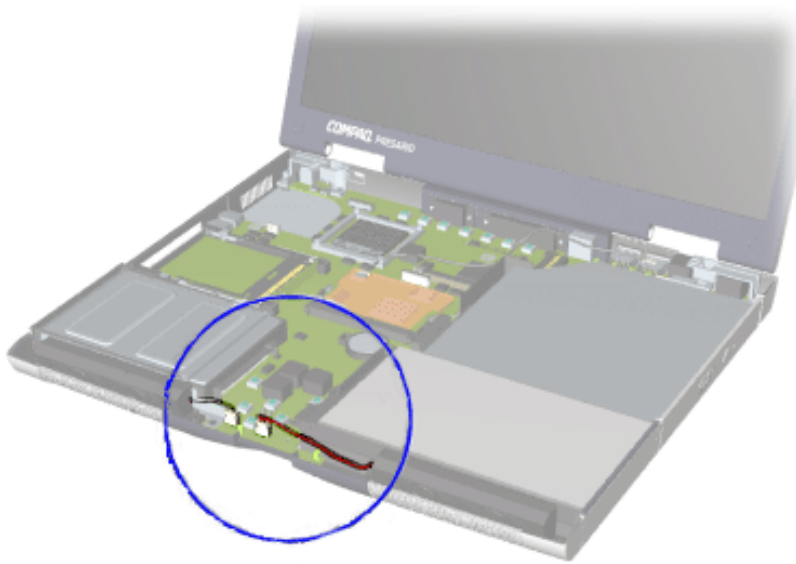
⚠ **CAUTION:** When servicing the Notebook, ensure that cables are placed in their proper location during the reassembly process. Improper cable placement can damage the Notebook.

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Preparing the Notebook for Disassembly

Before beginning Removal & Replacement Procedures, complete the following steps:

1. Disconnect AC power and any external devices.

2. Remove the QuikDock (pg 8).

3. Remove the battery pack (pg 9).

> **Important:** The battery pack should be removed before performing any internal maintenance on the Notebook.

> ⚠ **WARNING:** Metal objects can damage the battery pack as well as the battery contacts in the battery compartment. To prevent damage, do not allow metal objects to touch the battery contacts. Place only the battery pack for the Compaq Presario 1700 Series Portable Notebook into the battery compartment. Do not force the battery pack into the bay if insertion is difficult.

> △ **CAUTION:** Do not crush, puncture, or incinerate the battery pack. Do not open a battery pack; this damages the pack, makes it unusable, and exposes potentially harmful battery components. No field-serviceable parts are located inside the battery pack.

> **Note:** The Compaq Presario 1700 Series Portable Computers have several screws of various sizes that are **not** interchangeable. During disassembly, place screws in their correct location. During removal keep screws with their respective subassembly to make reassembly easy.
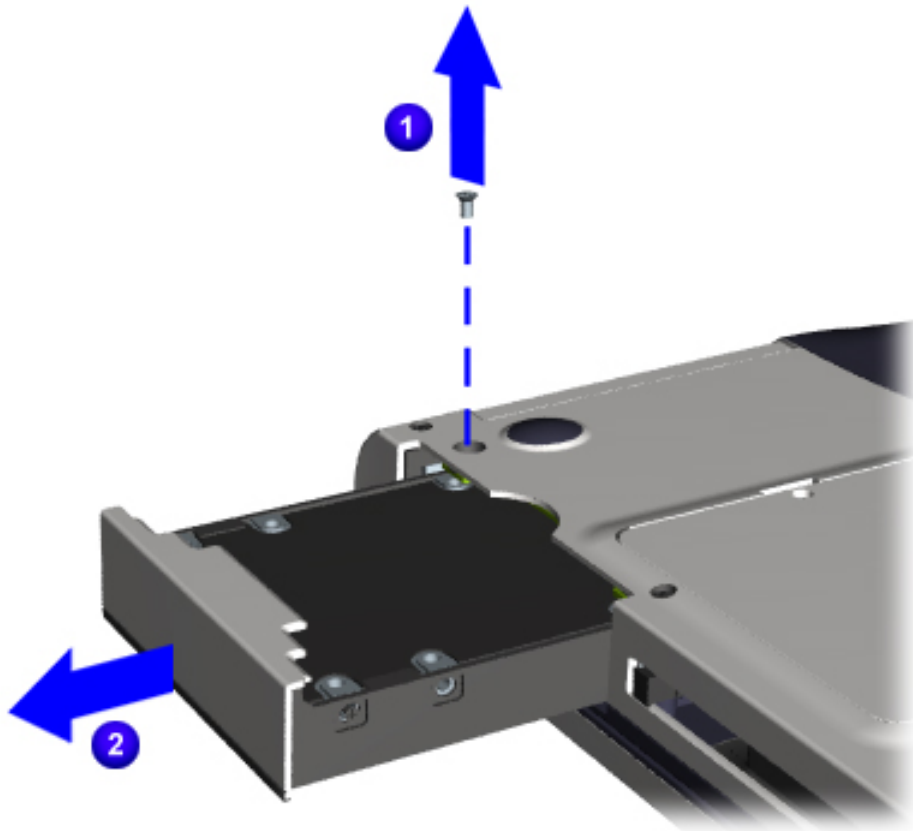
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Removal Procedures

QuikDock

To disconnect the QuikDock from the unit, complete the following steps:

1. Simultaneously press the release mechanisms **1** on both ends of the QuikDock.

2. Lift **2** the unit off the alignment pins and the QuikDock connector.

To reconnect the QuikDock to the unit, reverse steps 1 and 2.
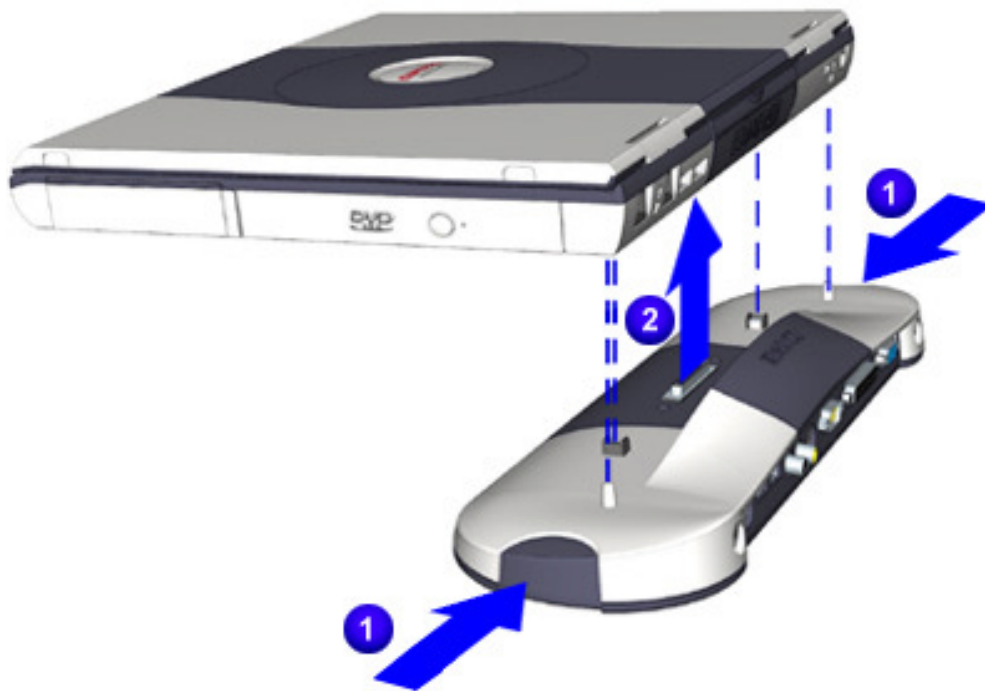
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Battery

To remove the battery pack, complete the following steps:

1. Push the release latch **1** at the bottom of the unit.
2. Pull the battery pack **2** out.
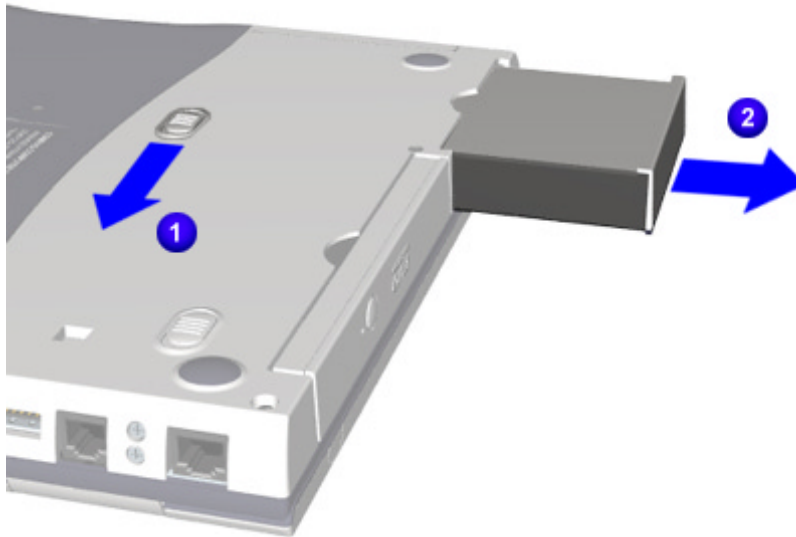
To replace the battery pack, reverse steps 1 and 2.

> **Important:** The battery pack should be removed before performing any internal maintenance on the Notebook.

⚠ **WARNING:** Metal objects can damage the battery pack as well as the battery contacts in the battery compartment. To prevent damage, do not allow metal objects to touch the battery contacts. Place only the battery pack for the Compaq Presario 1700 Series Portable Notebook into the battery compartment. Do not force the battery pack into the bay if insertion does not occur easily.

⚠ **CAUTION:** Do not crush, puncture, or incinerate the battery pack. Do not open a battery pack; this action damages the pack, makes it unusable, and exposes potentially harmful battery components. No field-serviceable parts are located inside the battery pack.
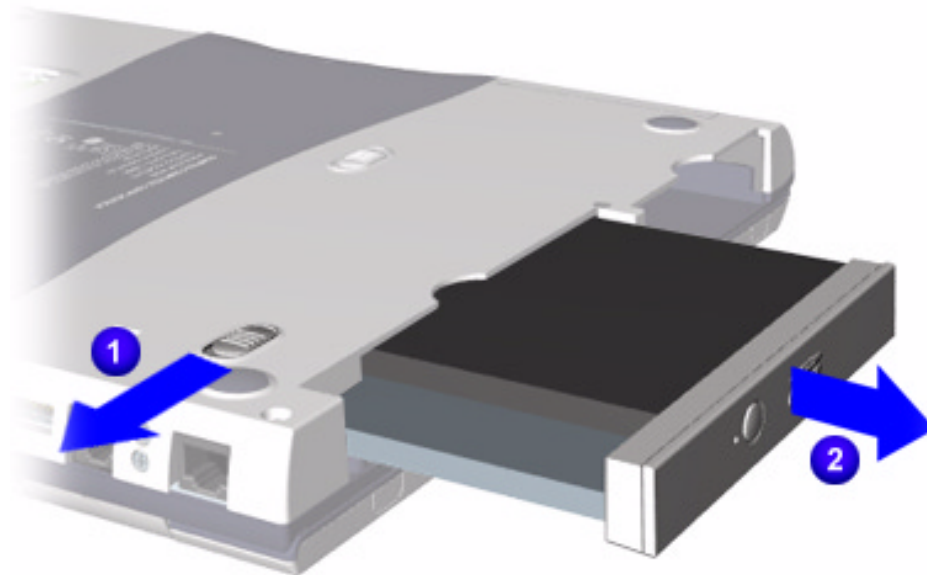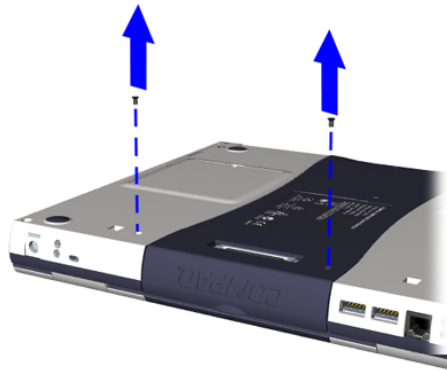
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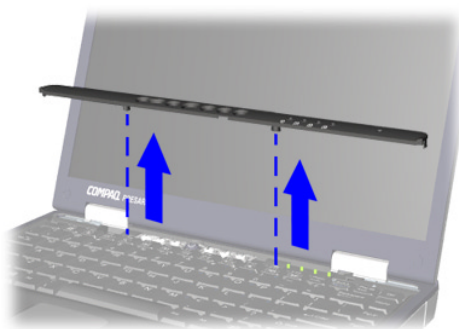
Hard Drive

To remove the hard drive, complete the following steps:

1. Prepare the unit for disassembly ().

2. Turn the unit upside down.

3. Remove one screw ❶ from the bottom of the unit.

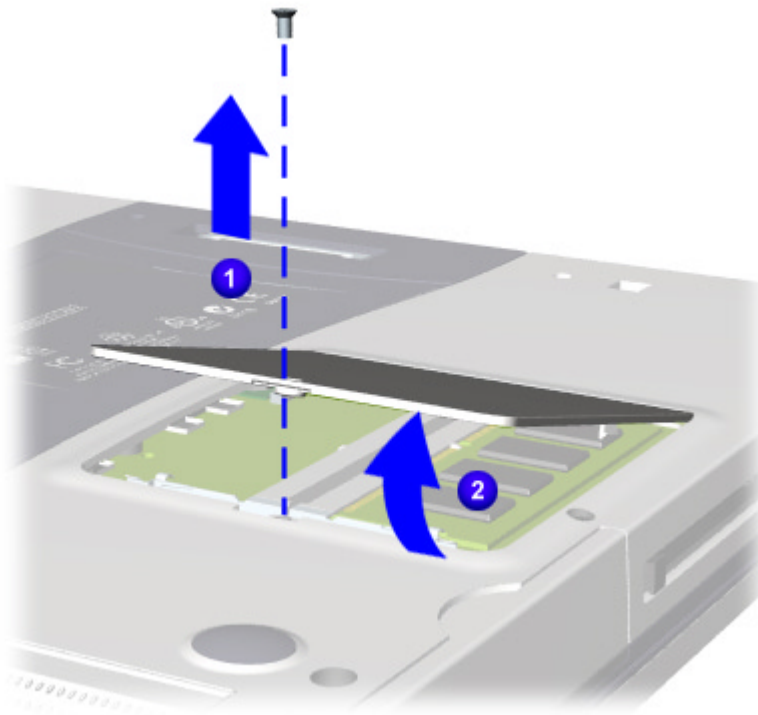4. Pull the hard drive ❷ out.

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FutureBay™

To remove the FutureBay, complete the following steps:

1. Turn the unit upside down.

2. Push the release lever **1** back.

3. Pull the FutureBay **2** device out.
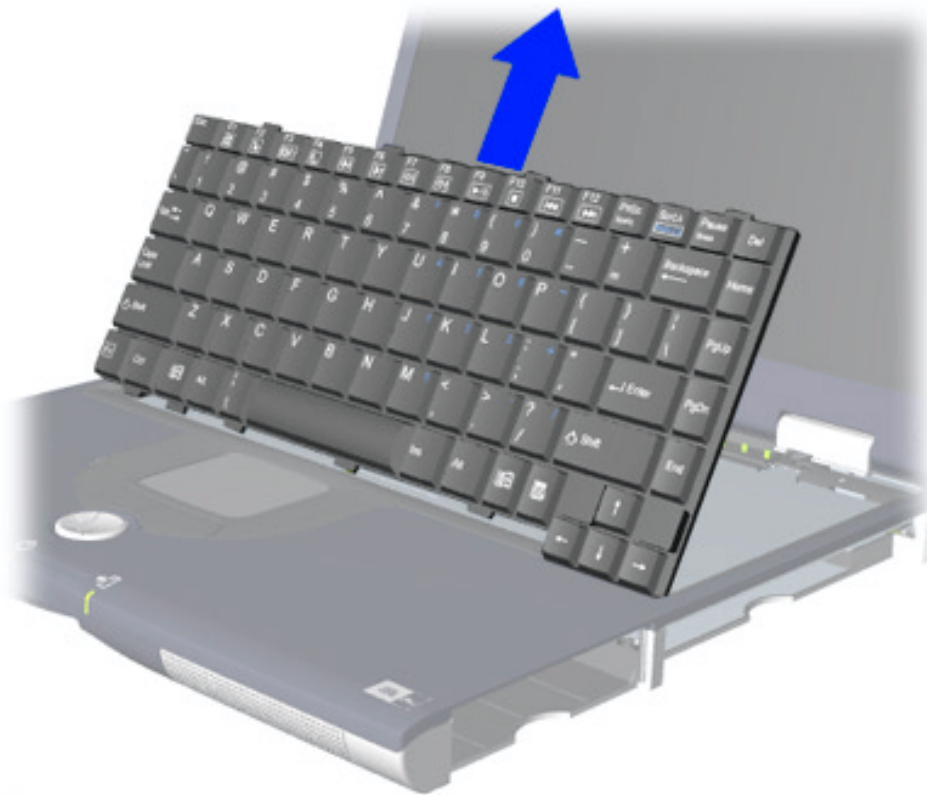
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LED Button Bezel

To remove the LED button bezel, complete the following steps:

1. Prepare the unit for disassembly (pg 7).

2. Turn the unit upside down.

3. Remove two screws from each side of the Port Replicator connector.

4. Gently pry the ends of the LED button bezel upwards.
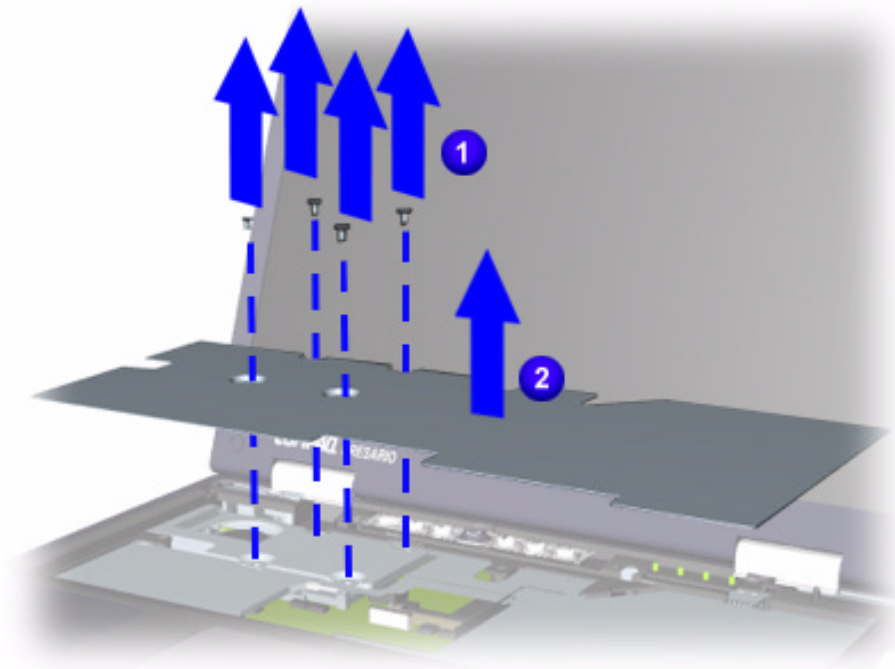
5. Lift the bezel off.

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System Memory

To upgrade or replace the system memory, complete the following steps:

1. Prepare the unit for disassembly (pg 7).

2. Turn the unit upside down.

3. Remove one screw **1** on the memory compartment door.

4. Open the memory compartment door **2**, release the locks on each sides of the system memory, then remove the system memory.

To add memory modules, reverse steps 1 and 2 above.
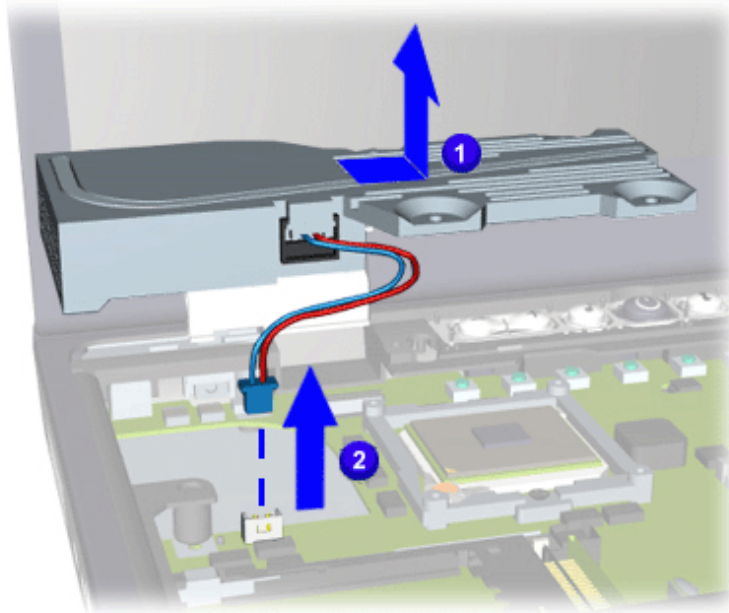
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Keyboard

To remove the keyboard, complete the following steps:

1. Prepare the unit for disassembly (pg 7).

2. Remove the LED button bezel (pg 12).

3. Lift the top of the keyboard, fold it forward, then lay it on top of the TouchPad.

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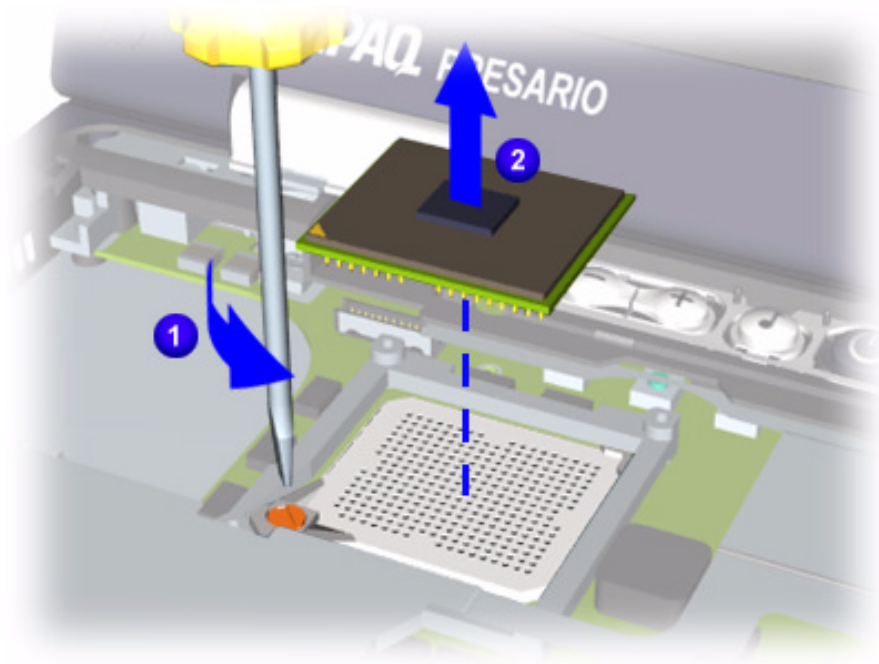# maintenance & service guide

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Heatspreader

To remove the Heatspreader, complete the following steps:

1. Prepare the unit for disassembly (pg 7).

2. Remove the LED button bezel (pg 12).

3. Remove the keyboard (pg 14).

4. Remove four screws ❶ and lift out ❷ the Heatspreader.

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Heatsink Assembly (Fan Assembly)

To remove the Heatsink assembly, complete the following steps:

1. Prepare the unit for disassembly (pg 7).

2. Remove the LED button bezel (pg 12).

3. Remove the keyboard (pg 14).

4. Remove the Heatspreader (pg 15).

5. Lift up the right side of the Heatsink assembly **1**, pull it to the right, then disconnect the two-pin connector **2** .

   Note: The Heatsink assembly in the Notebook may differ from the one shown in the illustration below.

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Processor

To remove the processor, complete the following steps:

1. Prepare the unit for disassembly(pg 7).

2. Remove the LED button bezel (pg 12).

3. Remove the keyboard (pg 14).

4. Remove the Heatspreader (pg 15).

5. Remove the Heatsink assembly (pg 16).

6. Turn screw **1** counter-clockwise (1/2 turn **only**), then lift the processor **2** and remove it from the socket.

> ⚠ **CAUTION:** If you turn the screw more than a half turn, you will damage the socket, making it necessary to replace the system board.

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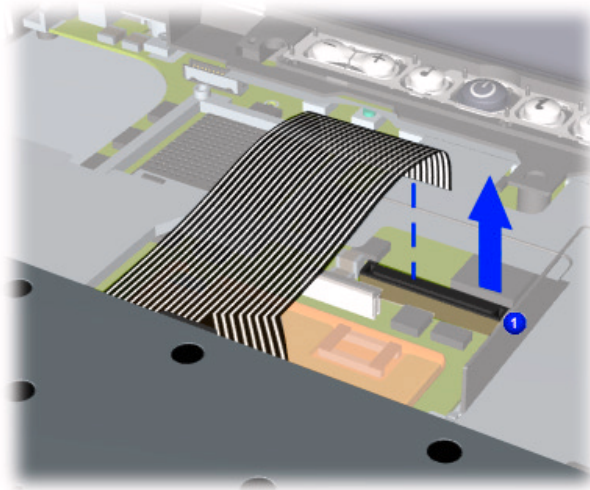
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To replace the processor, make sure that the processor's pin 1 ❶ orientation is aligned with the lower-left corner of the socket. Turn screw clockwise (1/2 turn **only**).
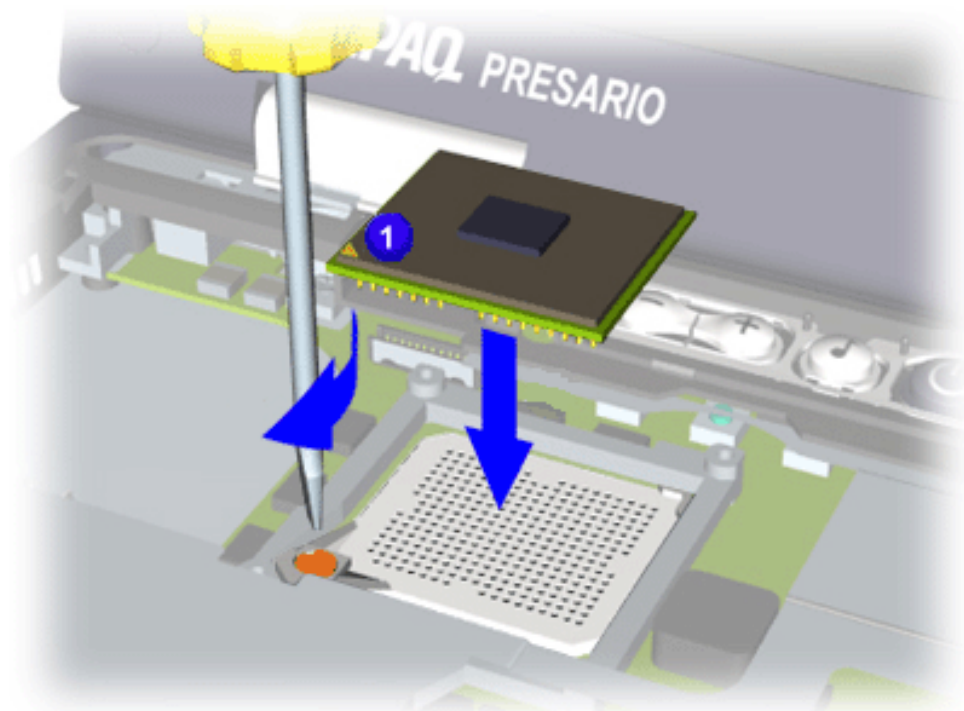
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Keyboard Cable Connection

To remove the keyboard cable connection, complete the following steps:

1. Prepare the unit for disassembly (pg 7).

2. Remove the LED button bezel (pg 12).

3. Remove the keyboard (pg 14).

4. Remove the Heatspreader (pg 15).

5. Remove the Heatsink assembly (pg 16).

6. Gently pry open the ZIF connector **1** by carefully lifting on the left side, then the right side, until you can lift no further.

7. Grasp the cable and GENTLY pull up from connector.

⚠ **CAUTION:** Lifting the cable with too much force might result in system board damage, making it necessary to replace the system board.

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Modem/NIC Combo Card

Preparing for Modem/NIC Combo Card Removal

Prepare the unit for disassembly (pg 7), and remove the following before removing the modem/NIC combo card:

1. Remove the LED button bezel (pg 12).

2. Remove the keyboard (pg 14).

3. Remove the Heatspreader (pg 15).

4. Remove the Heatsink assembly (pg 16).

5. Remove the keyboard cable connection (pg 19).

Removing the Modem/NIC Combo Card

To remove the modem/NIC combo card, complete the following steps:

1. Gently pry open the ZIF connector **1** by carefully lifting on the left side, then the right side, until you can lift no further.

2. Grasp the cable and GENTLY pull up from connector.

⚠ **CAUTION:** To prevent damage to the system board, do not pry and lift with excessive force. You may otherwise have to replace the system board.
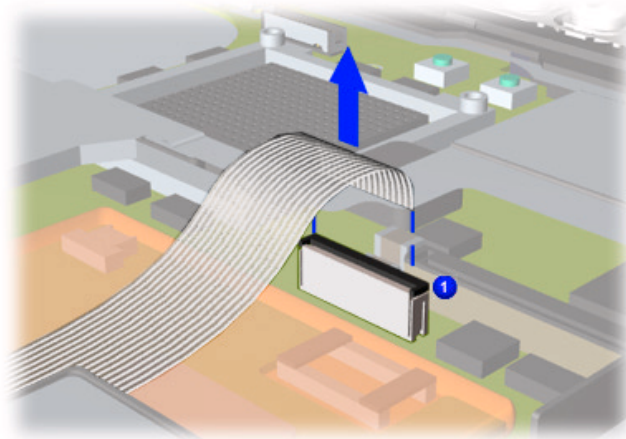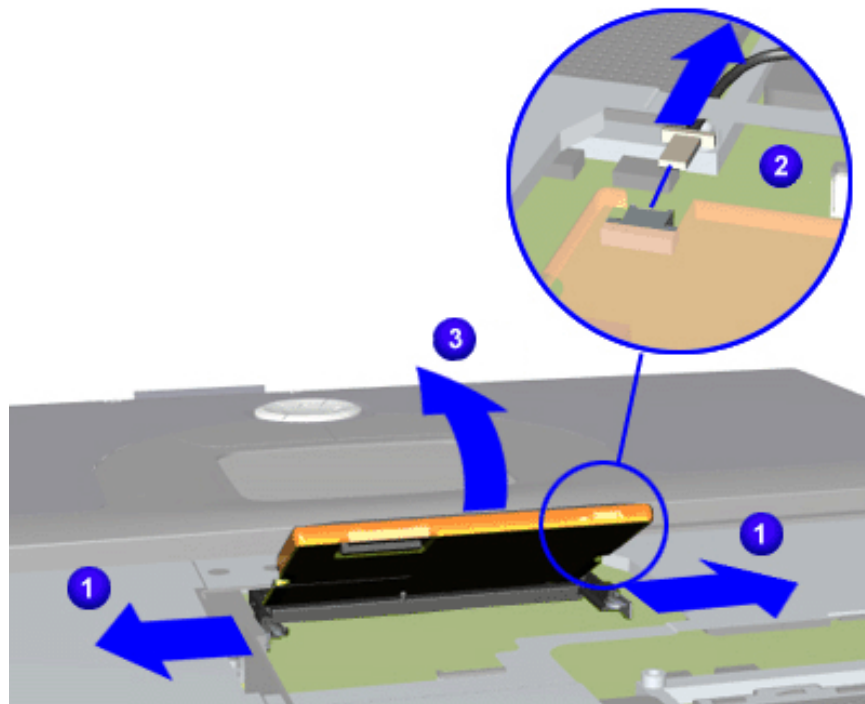
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3. Pry latches on each side of the card ① outward.

4. Remove the two-pin connector ② on the left side of the card.

5. Grasp the upper-right hand corner of the Modem/NIC combo card, then lift it up and pull it out ③.

To replace the card, remove the pin connector, insert a new card, then reconnect the pin.

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Display Panel

#### Preparing for the Display Panel Removal

Prepare the unit for disassembly (pg 7), and remove the following before removing the display panel:

1. Remove the LED button bezel (pg 12).

2. Remove the keyboard (pg 14).

3. Remove the Heatspreader (pg 15).

4. Remove the keyboard cable connection (pg 19).

Removing the Display Panel

To remove the Display Panel, complete the following steps:

1. Close the Display Panel.

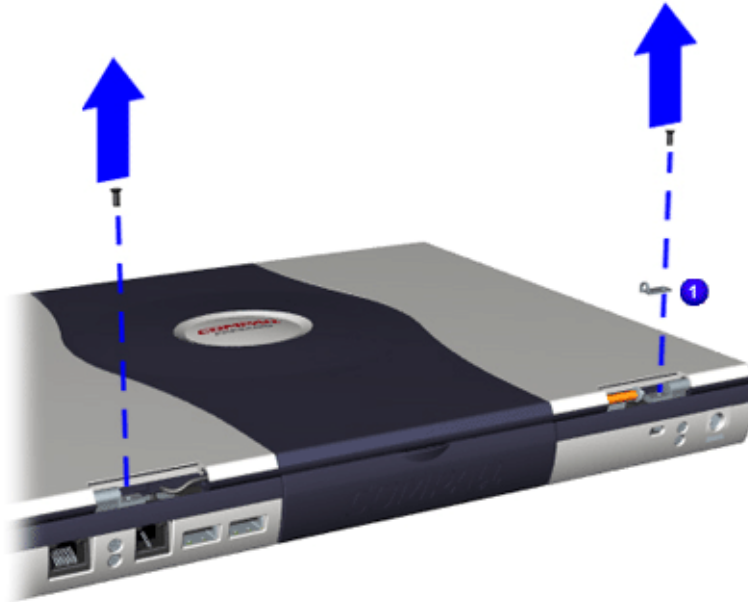2. Remove each hinge cover by prying either side of the hinge cover up and lifting off.
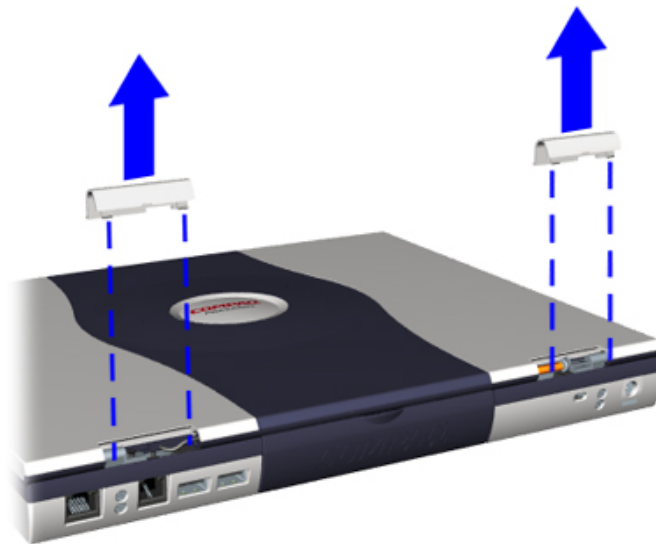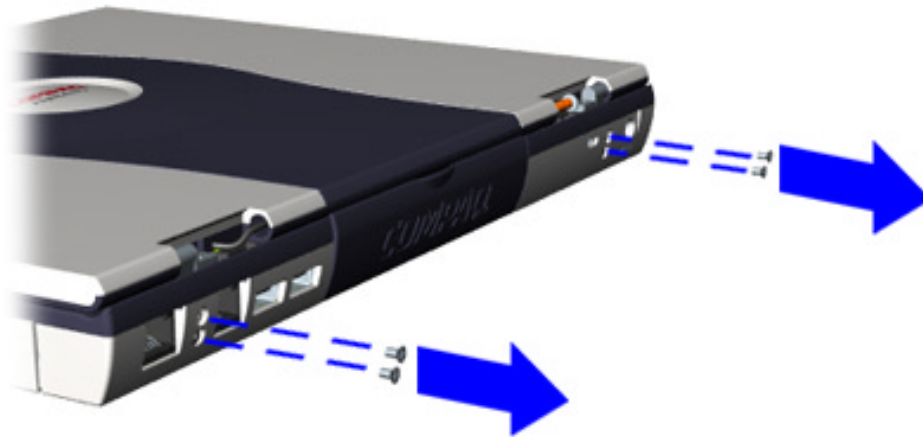
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3. Remove the screw on top of each hinge and the cable stabilizer clip **1** from the left-side hinge.

4. Remove two screws from the back of each hinge, then open the Display.

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5. Remove the back light cable ❶ by carefully lifting it from the socket.

6. Remove the Display cable ❷ by prying on the left and right sides of the cable connector until it is detached.
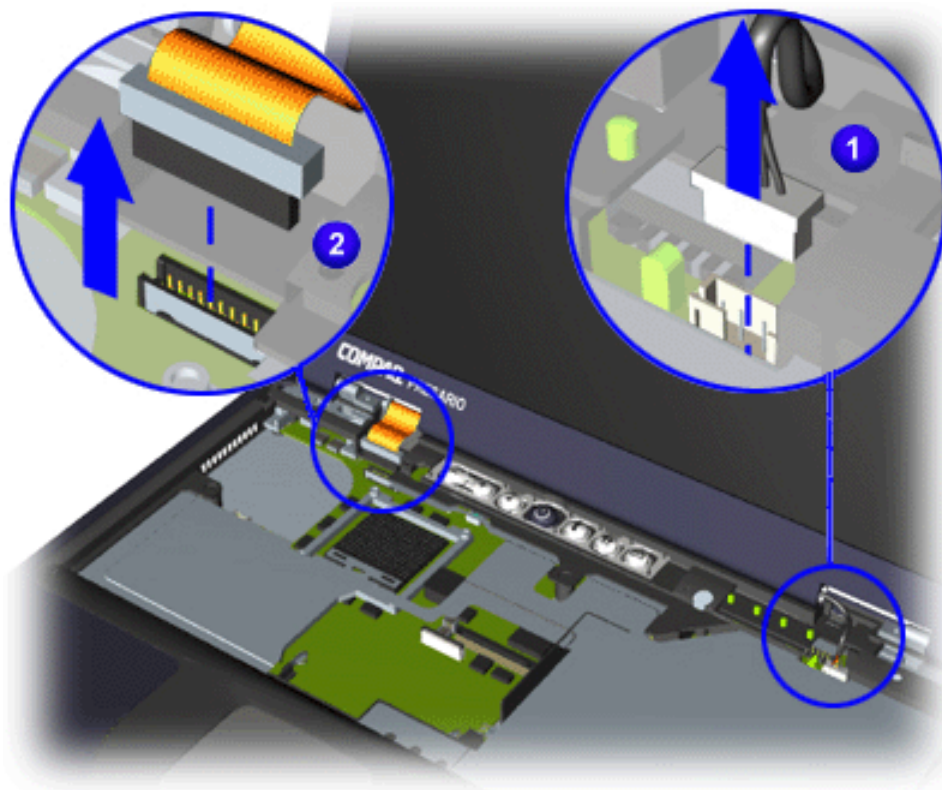
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7. Grasp the panel assembly and lift up to remove it.
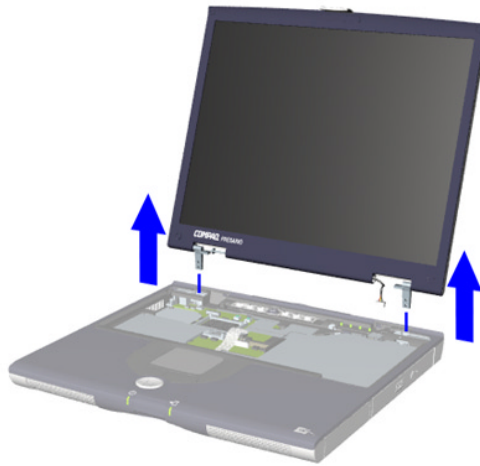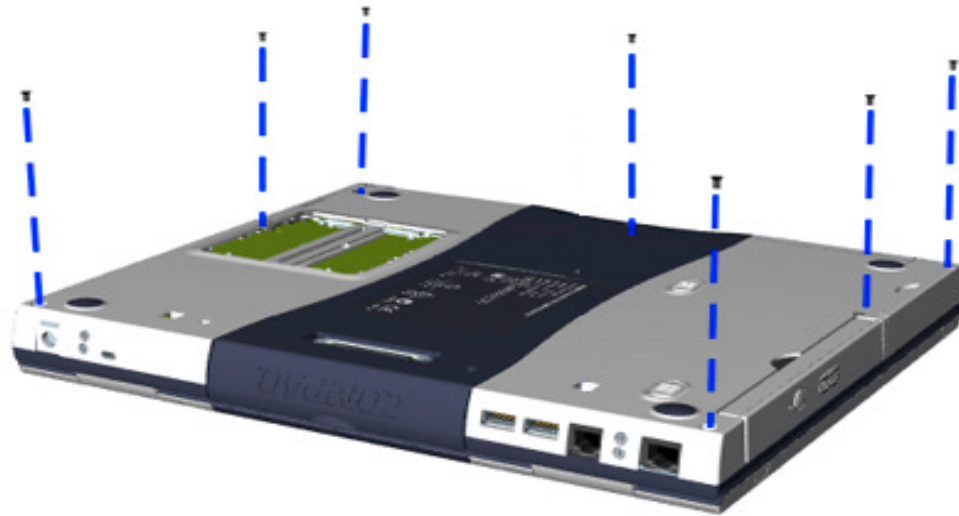
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CPU Top Cover with TouchPad/Palmrest

Preparing for CPU Top Cover with TouchPad/Palmrest Removal

Prepare the unit for disassembly (pg 7), and remove the following before removing the CPU Top Cover with TouchPad/Palmrest:

1. Remove the hard drive (pg 10).

2. Remove the FutureBay (pg 11).

3. Remove the LED button bezel (pg 12).

4. Remove the keyboard (pg 14).

5. Remove the Heatspreader (pg 15).

6. Remove the Heatsink assembly (pg 16).

7. Remove the keyboard cable connection (pg 19).

8. Remove the Display Panel (pg 22).

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Removing the CPU Top Cover with TouchPad/Palmrest

To remove the CPU Top Cover with TouchPad/Palmrest, complete the following steps:

1. Turn the unit upside down.
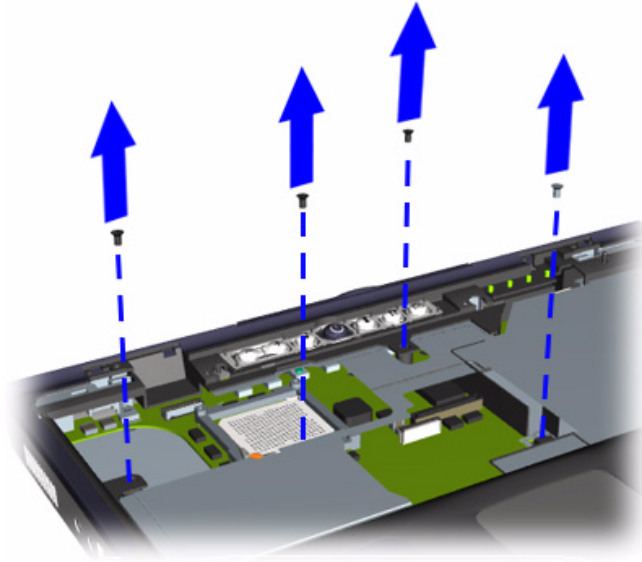
2. Remove seven screws from the underside of the unit.
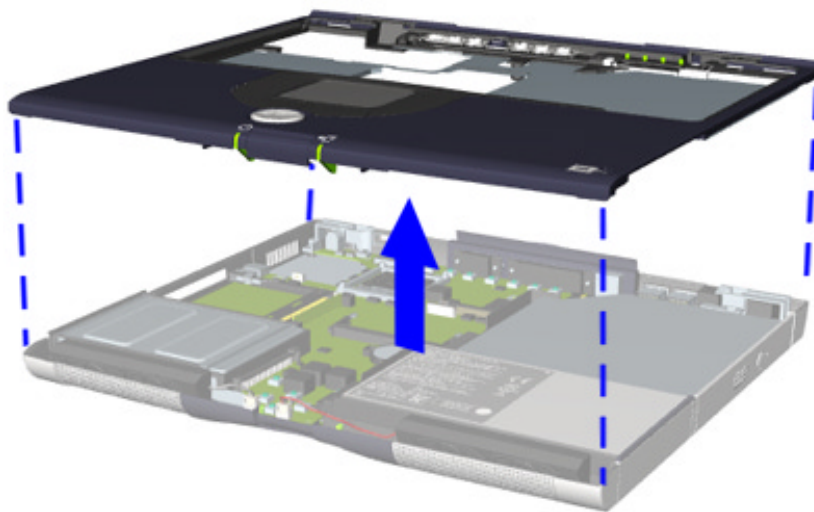
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Presario 1700 Series
Models: XL260, XL261, XL262, XL264, XL265, XL266, XL274, XL275, XL360, XL361, XL362, XL363, XL364, XL365, XL366, XL367, XL368, XL369, XL370, XL371, XL372, XL373, XL374, XL375, XL376, XL377, and XL378

3. Turn the unit right-side up and remove four screws.

4. Unplug the Zif Connector for the TouchPad.

5. Lift and remove the CPU Top Cover with TouchPad/Palmrest.
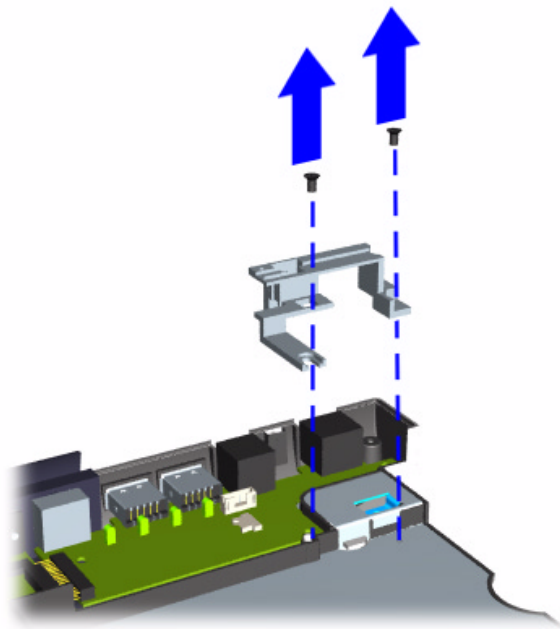
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Sub IO Board

Preparing for Sub IO Board Removal

Prepare the unit for disassembly (pg 7), and remove the following before removing the Sub IO Board:

1. Remove the hard drive (pg 10).

2. Remove FutureBay (pg 11).

3. Remove the LED button bezel (pg 12).

4. Remove the keyboard (pg 14).

5. Remove the Heatspreader (pg 15).

6. Remove the Heatsink assembly (pg 16).

7. Remove the keyboard cable connection (pg 19).

8. Remove the Display Panel (pg 22).

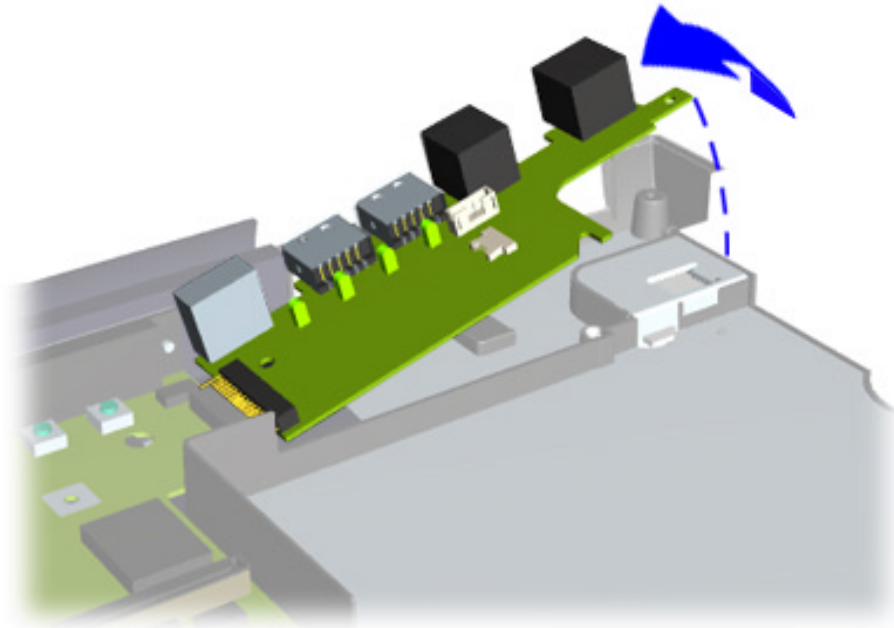9. Remove the CPU Top Cover with TouchPad/Palmrest (pg 26).

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Removing the Sub IO Board

To remove the Sub IO board, complete the following steps:

1. Remove two screws from the right hinge support bracket and lift the bracket up to remove it.

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2. Grasp the right-hand corner of the board and lift it up slightly.

3. Pull the board to the right until the IO connector is disconnected from the system board.

COMPAQ

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System Board

Preparing for System Board Removal

Prepare the unit for disassembly (pg 7), and remove the following before removing the system board:

1. Remove the hard drive (pg 10).

2. Remove the FutureBay (pg 11).

3. Remove the LED button bezel (pg 12).

4. Remove the keyboard (pg 14).

5. Remove the Heatspreader (pg 15).

6. Remove the Heatsink assembly (pg 16).

7. Remove the Display Panel (pg 22).

8. Remove the CPU Top Cover with TouchPad/Palmrest (pg 26).

9. Remove the processor (pg 17).

10. Remove the keyboard cable connection (pg 19).

11. Remove the modem or NIC combo card (pg 20).

12. Remove the Sub IO Board (pg 29).
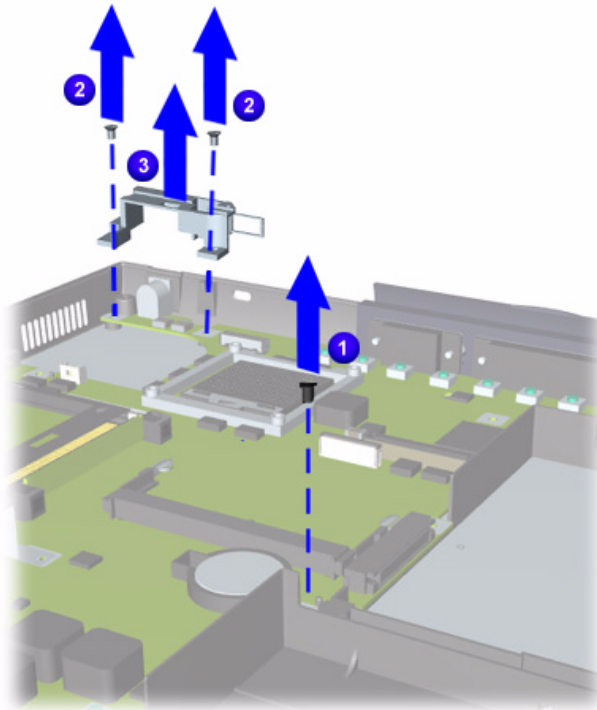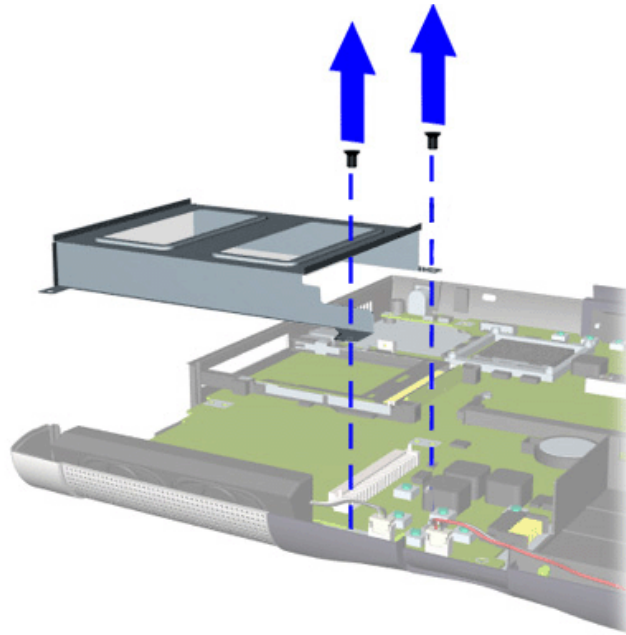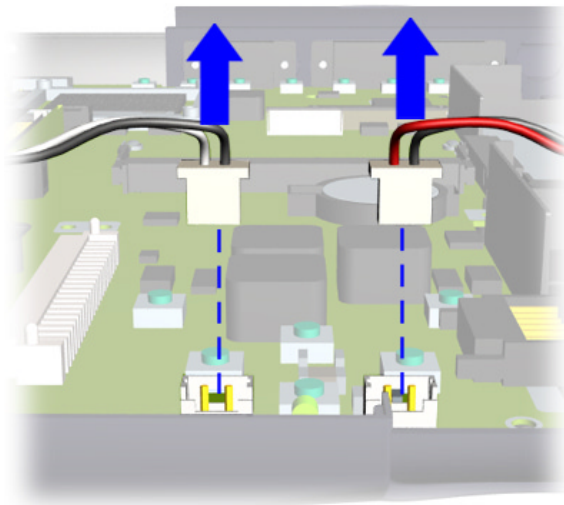
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Removing the System Board

To remove the system board, complete the following steps:

1. Remove one screw by the CMOS Battery ①.

2. Remove two screws from the left hinge bracket ② and lift up to remove the bracket ③.

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3. Remove two screws on the hard drive frame, and lift the frame up to remove it.

4. Unplug the two speaker cables.

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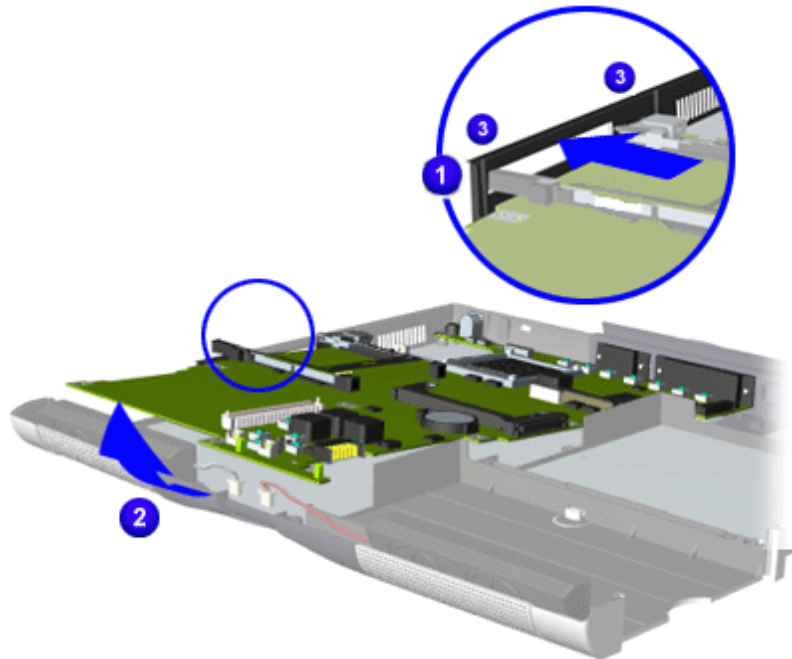
5. Press the button on the side of the card-bus bezel ① to release the button. Press the button again to eject the card in the card-bus bezel. Remove the card.

6. Start lifting the board at the lower right corner ② , pry the frame slightly ③ outward near the two audio jacks to release the jacks, then lift the system board out.

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Left and Right Speaker Assembly

To remove the left and right speaker assembly, prepare the unit for disassembly (pg 7) and complete the following steps:

1. Remove the hard drive (pg 10).

2. Remove the FutureBay (pg 11).

3. Remove the LED button bezel (pg 12).

4. Remove the keyboard (pg 14).

5. Remove the Heatspreader (pg 15).

6. Remove the Heatsink assembly (pg 16).

7. Remove the keyboard cable connection (pg 19).

8. Remove the Display Panel (pg 22).

9. Remove the CPU Top Cover with TouchPad/Palmrest (pg 26).

10. Remove the two screws connecting the speaker assembly to the chassis.