

Compaq Armada 110 & N110 Installation Guide

5.6 LED Cover

1. Prepare the computer for disassembly (Section 5.3).
2. Turn the computer top side up with the front facing you.
3. Open the computer.
4. Lift up the left edge of the LED cover 1 (Figure 5-5).
5. Lift up the front edge of the LED cover from left to right 2.
6. Lift the LED cover straight up to remove it.

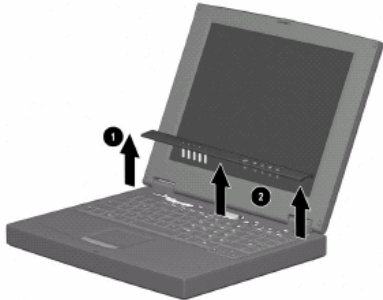


Figure 5-5: Removing the LED Cover

Reverse the above procedure to install the LED cover.

5.7 Keyboard

1. Prepare the computer for disassembly (Section 5.3).
2. Remove the LED cover (Section 5.6).
3. Remove the two M2.5 × 5 screws securing the keyboard to the base enclosure 1 (Figure 5-6).
4. Swing the back edge of the keyboard up and forward 2 until it rests on the top cover.

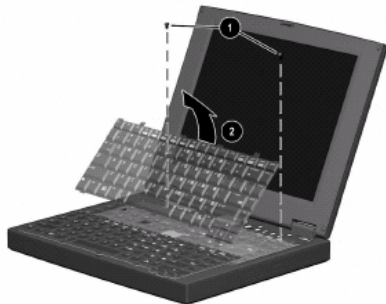


Figure 5-6: Removing the Keyboard Screws

5. Release the zero insertion force (ZIF) connector to which the keyboard cable is connected 1 and disconnect the keyboard cable from the system board 2 (Figure 5-7).

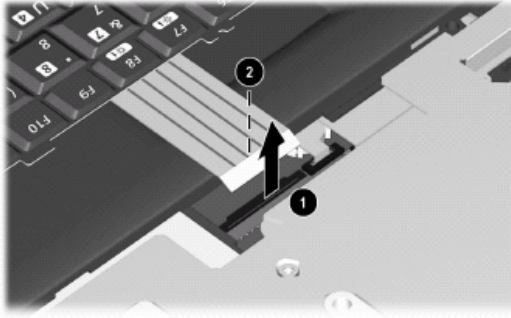


Figure 5-7: Disconnecting the Keyboard Cable

Figure 5-7: Disconnecting the Keyboard Cable

6. Remove the keyboard.

Reverse the above procedure to install the keyboard.

5.8 Optical Drive

1. Prepare the computer for disassembly (Section 5.3) and, in the order below, remove the following components:

✧ LED cover (Section 5.6)

✧ Keyboard (Section 5.7)

2. Remove the M2.5 × 4.5 screw that secures the optical drive to the heat sink 1 (Figure 5-8).

3. Push the back edge of the optical drive 2 to the right to disconnect it from the connector on the system board.

4. Slide the optical drive out of the base enclosure 3.

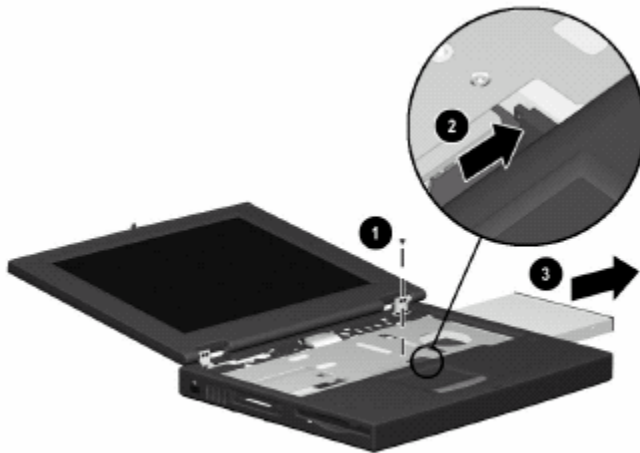


Figure 5-8: Removing the Optical Drive

Reverse the above procedure to install the optical drive.

5.9 Display

When the display screws are removed, the display assembly is unsupported. Make sure to provide support for the display assembly when removing the display screws.

1. Prepare the computer for disassembly (Section 5.3) and, in

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the order below, remove the following components:

- ★ LED cover (Section 5.6)
- ★ Keyboard (Section 5.7)
- 2. Close the computer.
- 3. Position the computer with the rear panel facing you.
- 4. Remove the two M2.5 × 4.5 screws securing the hinge covers to the display hinges 1 (Figure 5-9).
- 5. Lift the hinge covers straight up to remove them 2.

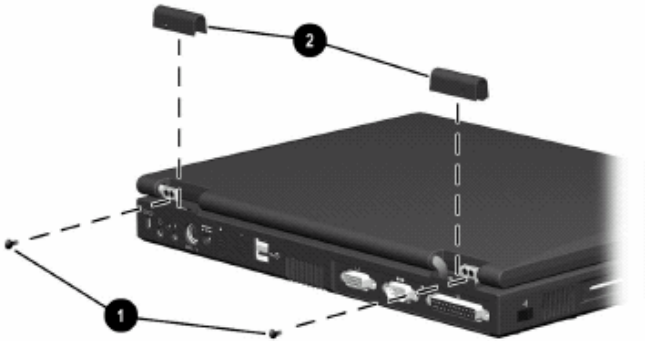


Figure 5-9: Removing the Hinge Covers

The right and left hinge covers are included in the Plastics Kit and are not interchangeable.

- 6. Position the computer with the front facing you.
- 7. Open the computer.
- 8. Remove the M2.5 × 4.5 screw securing the display ground cable to the base enclosure 1 (Figure 5-10).
- 9. Disconnect the display video cable 2.
- 10. Remove the four M2.5 × 7 screws securing the display hinges to the base enclosure 3.

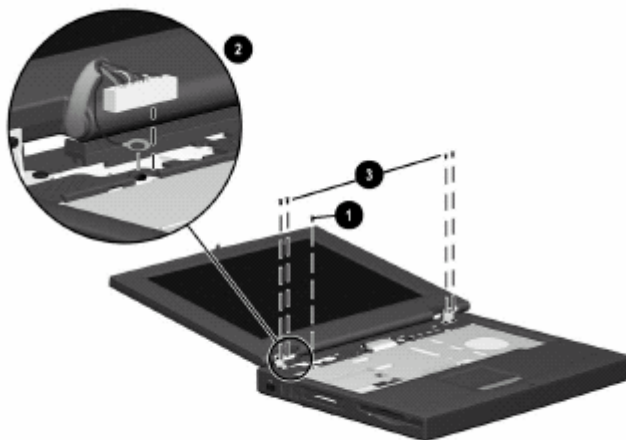


Figure 5-10: Removing the Display

- 11. Remove the display.
- Reverse the above procedure to install the display.

To ensure proper alignment of the display when replacing it, loosely install the screws in the 1, 2, 3, 4, 5 sequence indicated in Figure 5-11. After all screws have been loosely installed, tighten them.

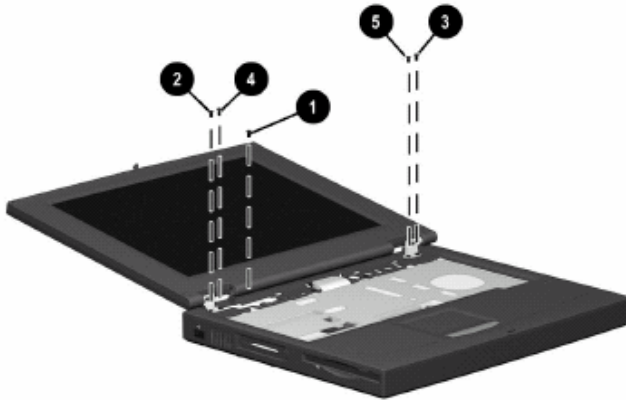


Figure 5-11: Installing the Display Screws

Reverse the above procedure to install the display.

5.10 Heat Sink

1. Prepare the computer for disassembly (Section 5.3) and, in the order below, remove the following components:

- ★ LED cover (Section 5.6)
- ★ Keyboard (Section 5.7)
- ★ Optical drive (Section 5.8)
- ★ Display (Section 5.9)

The heat sink is secured to the base enclosure by five screws that are two different sizes. Be sure to carefully note the size and location of each screw.

2. Remove the four M2.5 × 7 screws 1 and the M2.5 × 4.5 screw 2 securing the heat sink to the base enclosure (Figure 5-12).

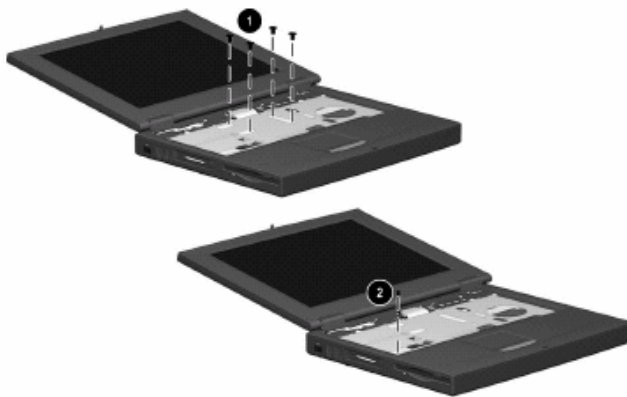


Figure 5-12: Removing the Heat Sink Screws

3. Lift the front edge of the heat sink and swing it up and back

until the shield rests at a 45-degree angle 1 (Figure 5-13).

4. Pull the heat sink away from the base enclosure at a 45-degree angle 2 and remove it from the base enclosure.

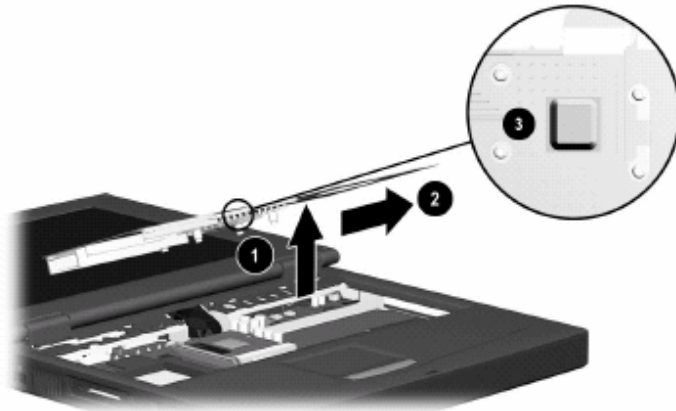


Figure 5-13: Removing the Heat Sink

A thermal pad 3 is installed on the heat sink and makes contact with the processor. Any time the heat sink is removed, inspect the thermal pad for damage.

Follow these steps to replace a damaged thermal pad:

- a. Carefully peel the old thermal pad from the heat sink area.
- b. Use a plastic straight edge tool (such as a credit card) to remove any thermal pad residue. Glue residue does not need to be totally removed. The glue used on the thermal pad has thermal conducting properties and will flow together with the glue from the new thermal pad.

CAUTION: Do not use any metal tools when removing thermal pad residue from the heat sink or processor. Failure to follow this caution can result in damage to these components and system failure.

- c. Peel the backing from the new thermal pad and position it on the heat sink in the same location as the old pad.

5.12 Top Cover

1. Prepare the computer for disassembly (Section 5.3) and, in the order below, remove the following components:

- ★ LED cover (Section 5.6)
- ★ Keyboard (Section 5.7)
- ★ Optical drive (Section 5.8)
- ★ Display (Section 5.9)
- ★ Heat sink (Section 5.10)

2. Turn the computer bottom side up with the front facing you.

The top cover is secured to the base enclosure by 15 screws that are two different sizes. Be sure to carefully note the size and location from which each screw was removed.

3. Remove the 10 M2.5 × 7 screws 1 and the three M2.5 × 4.5 screws 2 securing the top cover to the base enclosure (Figure 5-15).

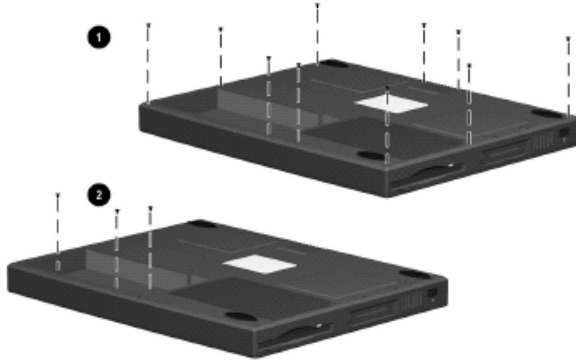


Figure 5-15: Removing the Top Cover Screws

4. Turn the computer top side up with the front facing you.
5. Disconnect the diskette drive cable from the low insertion force (LIF) connector on the system board 1 (Figure 5-16).
6. Disconnect the TouchPad cable from the LIF connector on the system board 2.
7. Remove the two M2.5 × 4.5 screws securing the top cover to the base enclosure 3.
8. Lift the top cover straight up to remove it from the base enclosure 4.

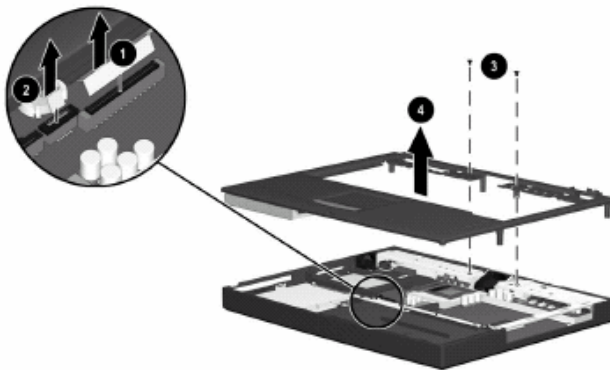


Figure 5-16: Removing the Top Cover

Reverse the above procedure to install the top cover.

5.15 Hard Drive

CAUTION: To prevent damage to the computer and hard drive and loss of information, shut down the computer before removing the hard drive from the computer. Do not remove the hard drive while the computer is on, in Suspend (Standby), or in Hibernation. If you are not sure whether the computer is in Hibernation, turn the computer on, then shut it down. If the computer is running a retail version of a Windows operating system, shut down the computer

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before removing any drive.

1. Prepare the computer for disassembly (Section 5.3) and, in the order below, remove the following components:

- ★ LED cover (Section 5.6)
- ★ Keyboard (Section 5.7)
- ★ Optical drive (Section 5.8)
- ★ Display (Section 5.9)
- ★ Heat sink (Section 5.10)
- ★ Top cover (Section 5.12)

2. Remove the three M2.5 × 5.5 screws 1 securing the hard drive and hard drive bracket to the base enclosure (Figure 5-20).

3. Remove the hard drive bracket 2 from the base enclosure.

4. Slide the hard drive toward the front of the base enclosure 3 to disconnect it from the system board.

5. Remove the hard drive from the base enclosure 4.

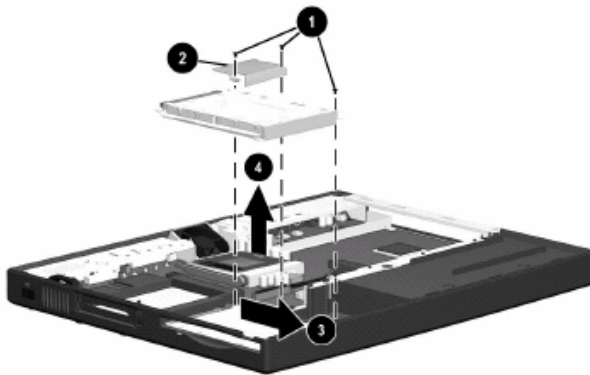


Figure 5-20: Removing the Hard Drive

Figure 5-20: Removing the Hard Drive

Reverse the above procedure to install the hard drive.