

***Packard Bell***  
***EasyNote W7 Series***  
***(Dragon SN)***  
***Disassembly Manual***

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## **Overview**

This document contains step-by-step disassembly instructions for the EasyNote W7 (Dragon SN) chassis. The instructions are illustrated where necessary with images of the part that is being removed or disassembled.

Packard Bell reserves the right to make changes to the chassis without notice.

## **Disassembly Instructions**

When disassembling the system unit, follow these general rules:

- n Turn off the power.
- n Disconnect the AC adapter.
- n Remove the battery.
- n Do not disassemble the system into parts that are smaller than those specified in the instructions.
- n Label all removed connectors; note where the connector goes and in what position it was installed.

## **Reassembly Instructions**

Reassembly is the reverse of the disassembly process. Use care to ensure that all cables and screws are returned to their proper positions. Check that no tools or any loose parts have been left inside the chassis. Check that everything is properly installed and tightened.

## **Required Tools**

All disassembly procedures can be performed using the following tools:

- n Philips (#2 bit) screwdriver
  - n Hex bolt screwdriver
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## **Hazardous Voltage**

There is hazardous voltage present inside the computer when it is connected to an AC supply, even when the computer's power switch is off. Exposure to hazardous voltage could cause personal injury. To avoid risk of injury, contact an Authorized Service Provider for proper (un)installation of optional hardware devices.

## **Avoid Electrostatic Discharge**

Electrostatic electricity can easily damage circuit cards and integrated circuits (ICs). To reduce risk of damage, store them in protective packaging whenever they are not installed in your system.

Add-in cards can be extremely sensitive to ESD and always require careful handling. After removing the card from the computer, place the card flat on a grounded, static-free surface, component-side up. Use a conductive foam pad if available, but not the card wrapper. Do not slide the card over any surface.

Before you install or remove memory modules, video memory, disk drives, circuit cards or other devices, protect them from static electricity. To do so, make sure your computer's power switch is OFF. Then, unplug the computer's AC power cord. Before picking up the device you (un)install, you should wear an anti-static wrist wrap (available at electronic supply stores). Be sure to connect the wrist wrap to an unpainted metal portion of the computer chassis. As an alternative, you can dissipate electrostatic build-up by touching an unpainted metal portion of the computer chassis with one hand. Then touch the device you are (un)installing with the other hand, and maintain continuous contact with it until it is (un)installed in the computer.

## **Power Supply Unit**

Under no circumstances should you attempt to disassemble the power supply. The power supply contains no user-serviceable parts. Inside the power supply are hazardous voltages that can cause serious personal injury. Always return a defective power supply to your dealer.

### **WARNING**

Ensure that the computer is disconnected from its power source and from all telecommunications links, networks, or modem lines whenever the chassis cover is removed. Do not operate the computer with the cover removed.

### **AVERTISSEMENT**

Assurez-vous que le système est débranché de son alimentation ainsi que de toutes les liaisons de télécommunication, des réseaux, et des lignes de modem avant d'enlever le capot. Ne pas utiliser le système quand le capot est enlevé.

### **WARNING**

Das System darf weder an eine Stromquelle angeschlossen sein noch eine Verbindung mit einer Telekommunikationseinrichtung, einem Netzwerk oder einer Modem-Leitung haben, wenn die Gehäuseabdeckung entfernt wird. Nehmen Sie das System nicht ohne die Abdeckung in Betrieb.

### **ADVERTENCIA**

Asegúrese de que cada vez que se quite la cubierta del chasis, el sistema haya sido desconectado de la red de alimentación y de todos los enlaces de telecomunicaciones, de red y de líneas de módem. No ponga en funcionamiento el sistema mientras la cubierta esté quitada.

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**WAARSCHUWING**

Zorg er voor dat alle verbindingen van en naar de computer (stroom, modem, netwerk, etc) verbroken worden voordat de behuizing geopend wordt. Zet de computer nooit aan als de behuizing geopend is.

**AVVERTENZA**

Prima di rimuovere il coperchio del telaio, assicurarsi che il sistema sia scollegato dall'alimentazione, da tutti i collegamenti di comunicazione, reti o linee di modem. Non avviare il sistema senza aver prima messo a posto il coperchio.

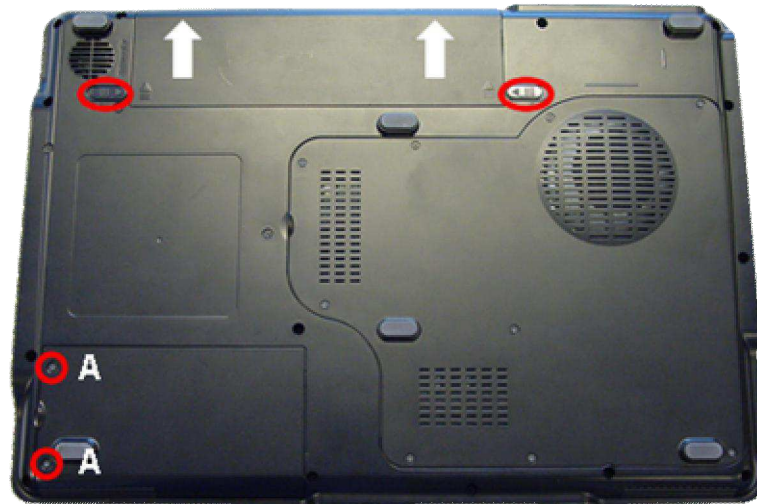
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## Battery and AC Adapter

To remove the battery, do as follows:

1. Turn off the computer.
2. Disconnect the AC adapter.
3. Remove the battery.

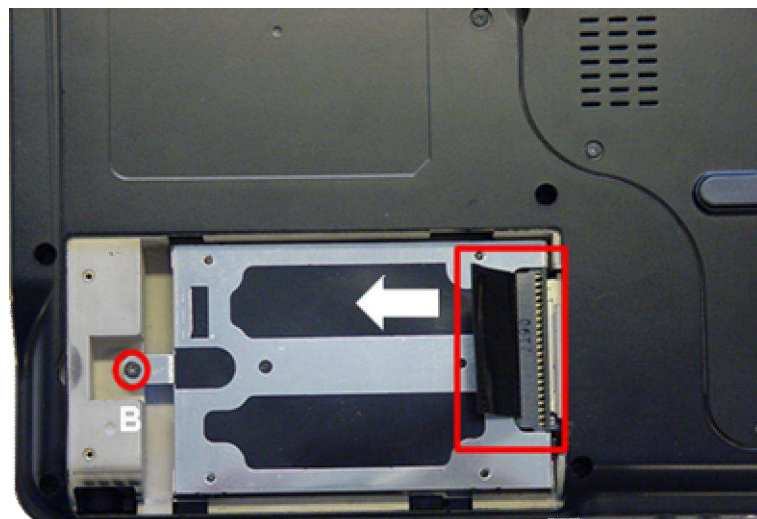


*Fig. 1 The bottom base.*

## Removing the Hard Disk Drive

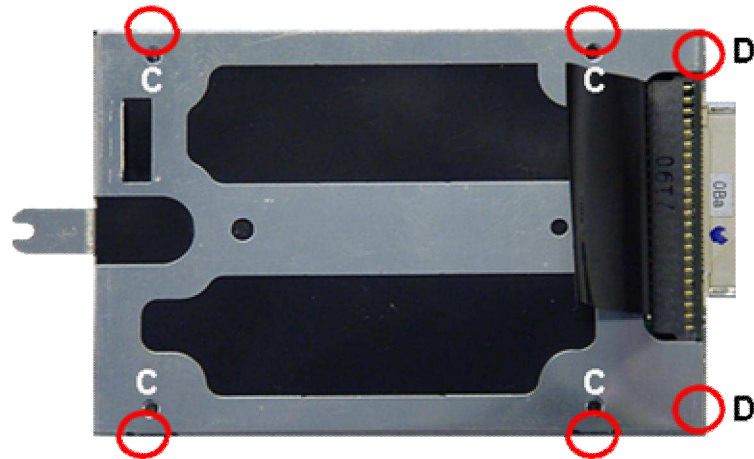
To remove the hard disk drive, perform the following steps:

1. Remove two screws (2xA) from the HDD cover (as shown in Fig. 1).
2. Remove the HDD cover.
3. Remove one screw (1xB).
4. Slide the HDD to the left, away from its connector. Then lift it out.



*Fig. 2 Removing the hard disk drive.*

5. Remove four screws (4xC) from the HDD bracket.
  6. Remove two screws (2xD) from the HDD bracket.
  7. Remove the HDD bracket and connector.
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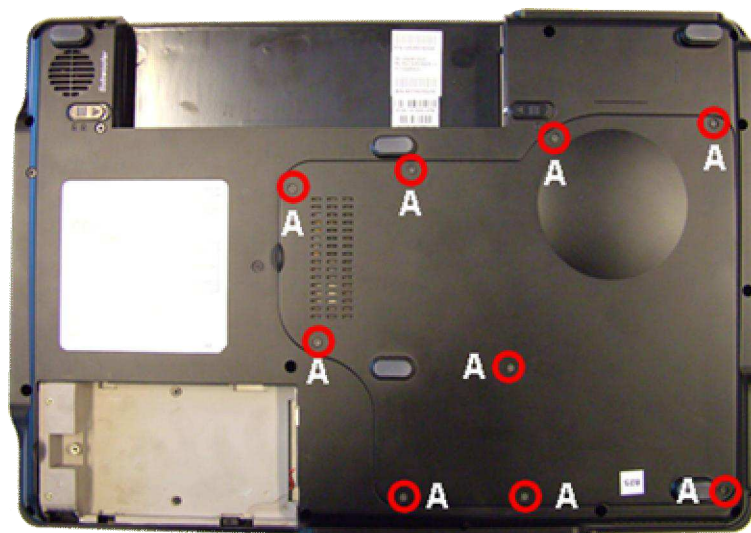


*Fig. 3 Removing the hard disk drive.*

## **Bottom Panel**

Perform the following steps to remove the bottom panel:

1. Remove nine screws (9xA) and take away the bottom panel.



*Fig. 4 Removing the bottom panel.*

2. Remove the memory module.
3. Lift out the TV Tuner Mini-PCI card from its slot.
4. Disconnect the antenna cable and the two data cables.
5. Disconnect the TV Tuner data cables from the mainboard.
6. Remove the Mini-PCI Wireless LAN card and disconnect the antenna cable(s).





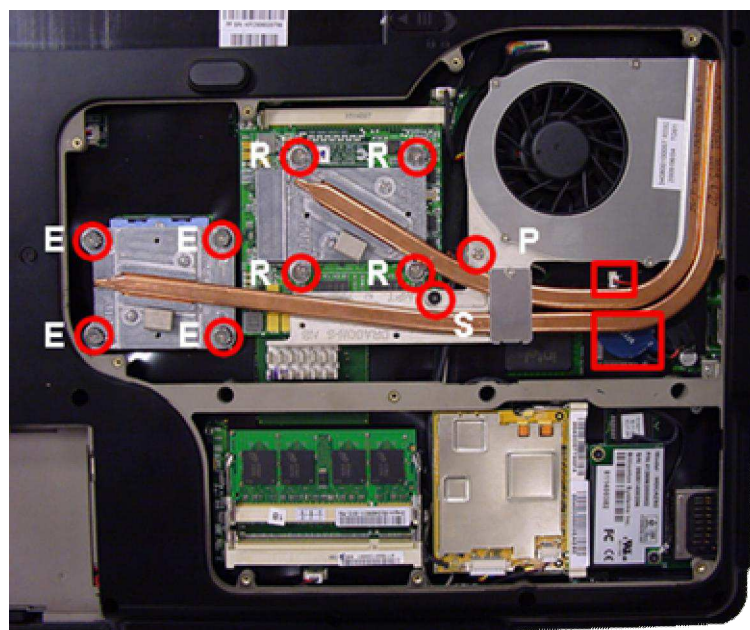
**Fig. 5** Removing the Mini-PCI wireless card.

7. Remove the screws (2xA) from the modem.
8. Release the ground cable and take away the modem.
9. Disconnect the modem cable from the modem.

### **CPU, VGA Module and Heat Sink**

To remove the heat sink from the CPU and the VGA Mobile PCI Express Module (MXM) follow the steps below:

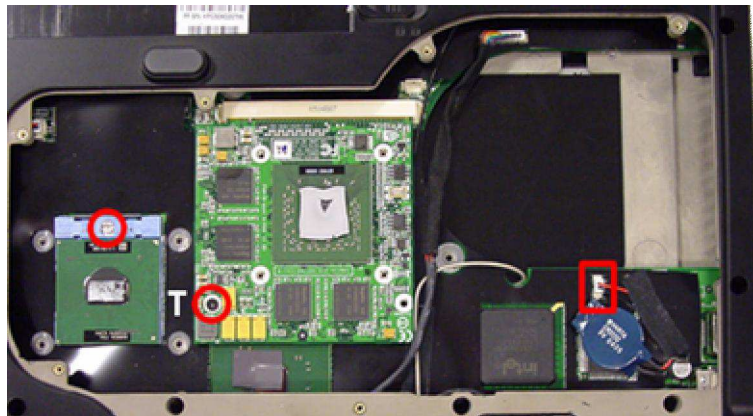
1. Disconnect the CPU fan cable.
2. Remove the lock screws (4xE) from the CPU heat sink.
3. Remove the lock screws (4xR) from the VGA module (see Fig. 5).
4. Remove the screws (1xP and 1xS) from the heat sink assembly.
5. Take away the heat sink.



**Fig. 6** Removing the heat sink.



6. Remove the screw from the VGA module (1xT).
7. Pull the VGA module out of the MXM slot.
8. Unlock the CPU socket and remove the CPU.



*Fig. 7 Remove VGA module and CPU.*

## Top Cover

Remove the top cover by following the steps below:

1. Slide the button bar to the left to unlock it.



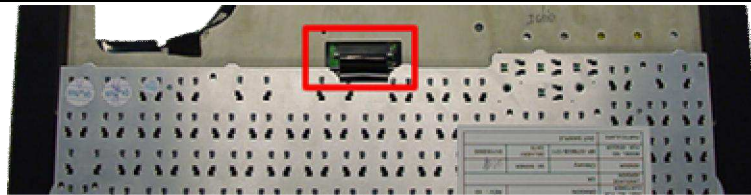
*Fig. 8 Removing the button bar.*

2. Disconnect the multimedia keyboard flat cable and take away the button bar.
3. Remove the screws (4xD) from the keyboard.



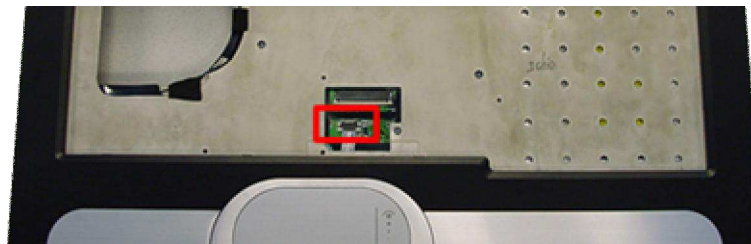
*Fig. 9 Removing the keyboard screws.*

4. Flip keyboards towards you.
5. Disconnect the keyboard flat cable.



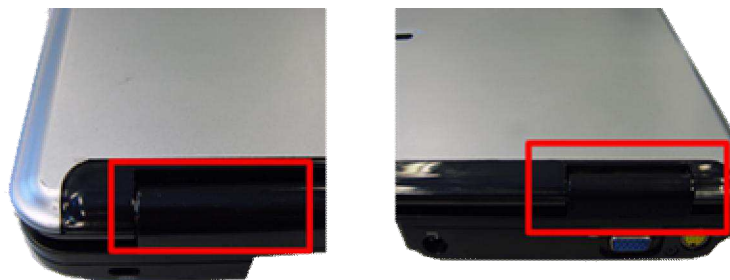
**Fig. 10** Removing the keyboard flat cable.

6. Disconnect the touchpad flat cable.



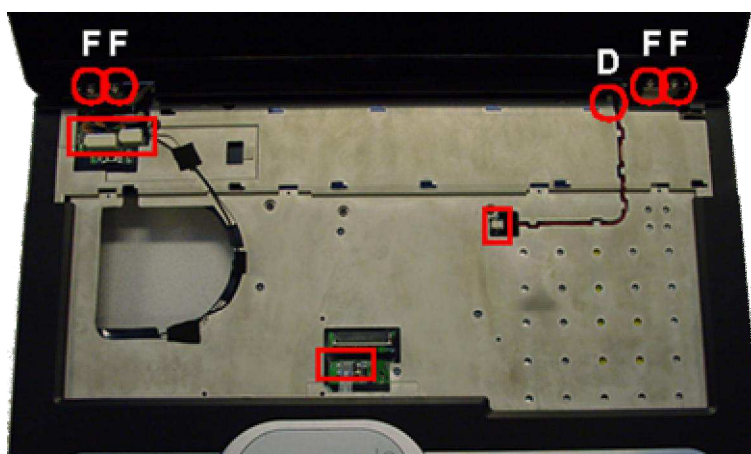
**Fig. 11** Disconnecting touchpad flat cable

7. Remove the two hinge covers.



**Fig. 12** The hinge covers.

8. Disconnect the lid switch connector.
9. Remove the screw (1xD) and remove the lid switch unit.



**Fig. 13** Lid switch and hinges.

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## **Removing the LCD Panel Assembly**

Follow the steps below to remove the LCD panel:

1. Disconnect the two LCD connectors.
2. Release the Wireless antenna cable.
3. Remove the screws (4xF) from the hinges (see Fig. 13).
4. Take away the LCD assembly.

## **Disassembling the LCD Panel Assembly**

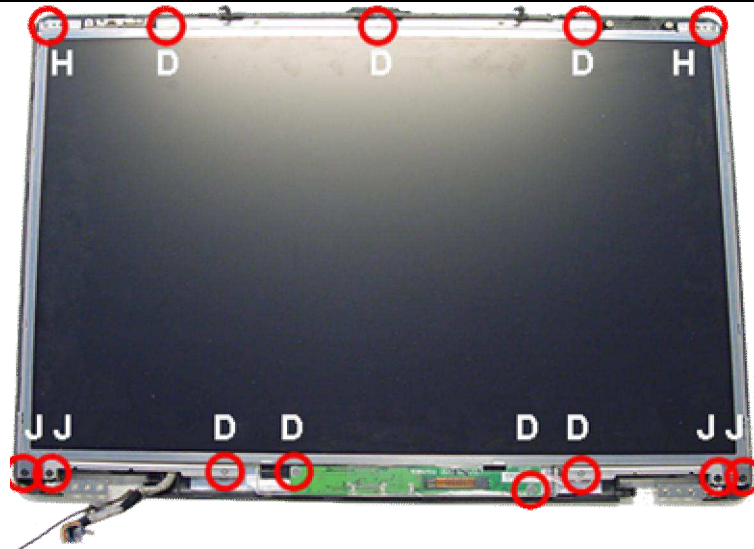
To disassemble the LCD panel, follow the steps below:

1. Remove the screw covers and screws (2xG).
2. Remove the screw covers and screws (4xH).
3. Unclip the front bezel by pushing it outwards from the inside.
4. Take away the bezel.



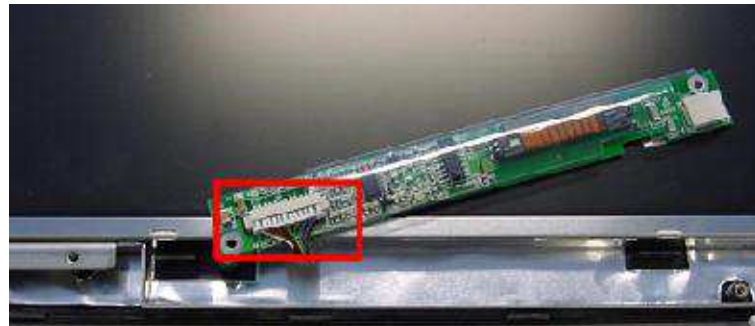
**Fig. 14** LCD panel front bezel.

5. Remove the screws (2xH) at the top (see Fig. 15).
  6. Remove the screws (3xD) from the top supporting bracket.
  7. Remove the screws (4xJ) from the hinges.
  8. Remove the screws (2xD) from the lower supporting bracket.
  9. Remove the screws (2xD) from the inverter board.
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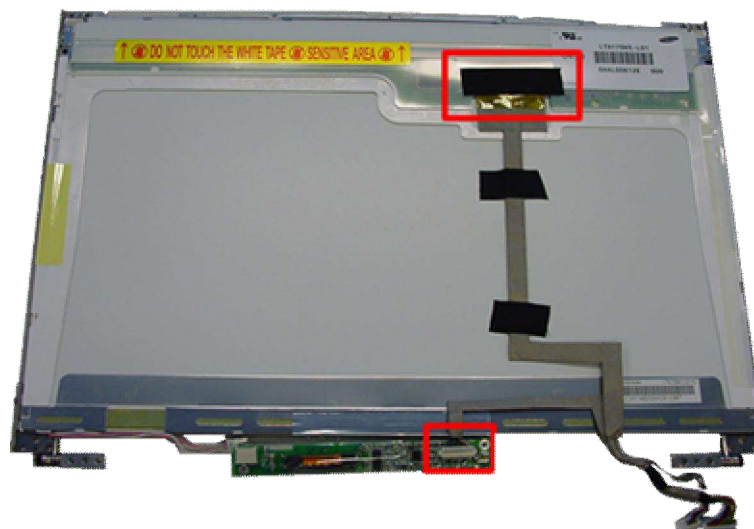
**Fig. 15** LCD display panel.

10. Disconnect the inverter backlight connector.



**Fig. 16** LCD inverter backlight connector.

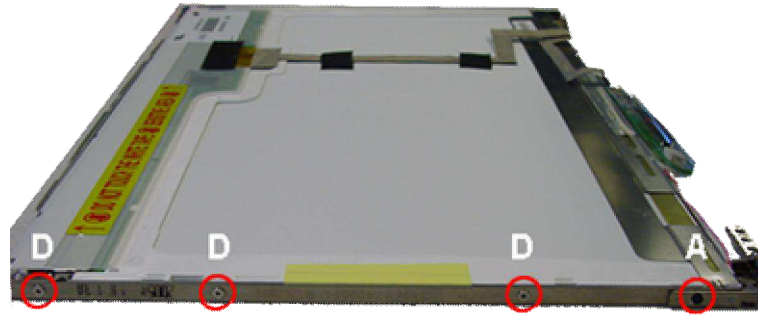
11. Remove the lower supporting bracket.
12. Take away the LCD display panel and inverter board.
13. Disconnect the LCD cable from the inverter board.
14. Disconnect the LCD cable from the back of the LCD display panel.



**Fig. 17** LCD display cable.

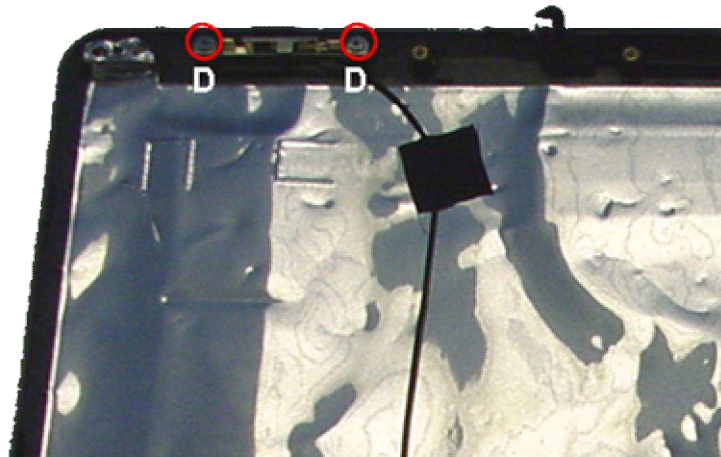


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15. Remove the screws (3x D, 1xA) from the left LCD bracket. The same goes for the right bracket.



**Fig. 18** LCD display cable.

16. Take away the top, left and right bracket from the LCD display panel.  
17. Remove the screws (2xD) holding the wireless antenna and take away the antenna.



**Fig. 19** Wireless antenna.

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## Optical Disk Drive

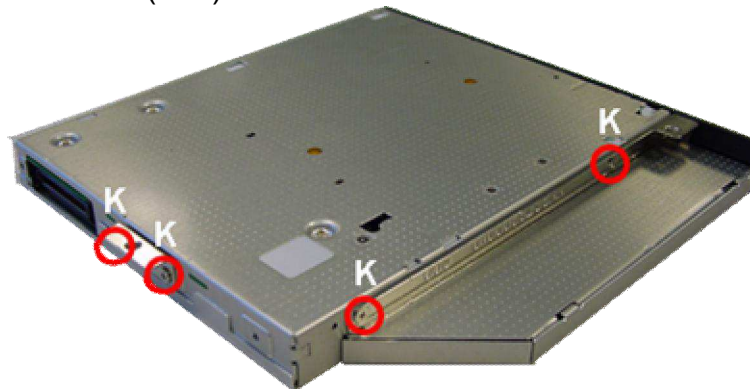
To remove the optical disk drive, follow the steps below:

1. Remove the screws (2xB) and push the optical disk drive out of its bay.



**Fig. 20** The screws of the optical disk drive.

2. Remove the screws (2xK) from the side ODD bracket and remove it.
3. Remove the screws (2xK) from the rear ODD bracket and remove it.



**Fig. 21** The screws of the optical disk drive brackets.

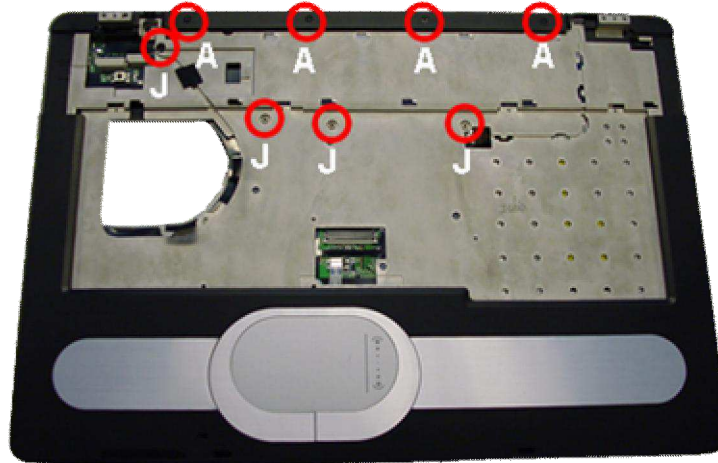
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## Bottom Base Assembly

Disassemble the bottom base assembly as follows:

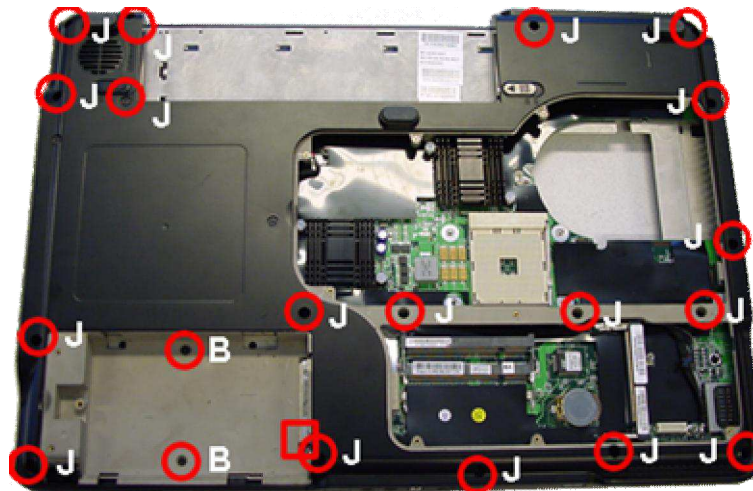
1. First remove the screws (4xA) from the top cover.
2. Then remove the screws (4xJ).



**Fig. 22** The top cover.

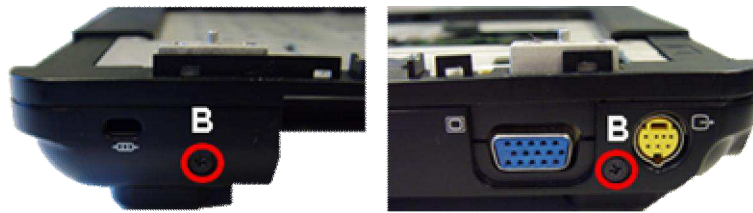
**Note:** Make sure that during re-assembly the clips of the top cover lock into place before fastening the screws.

3. Turn over the unit and remove the screws (18xJ, 2xB) from the bottom base assembly.



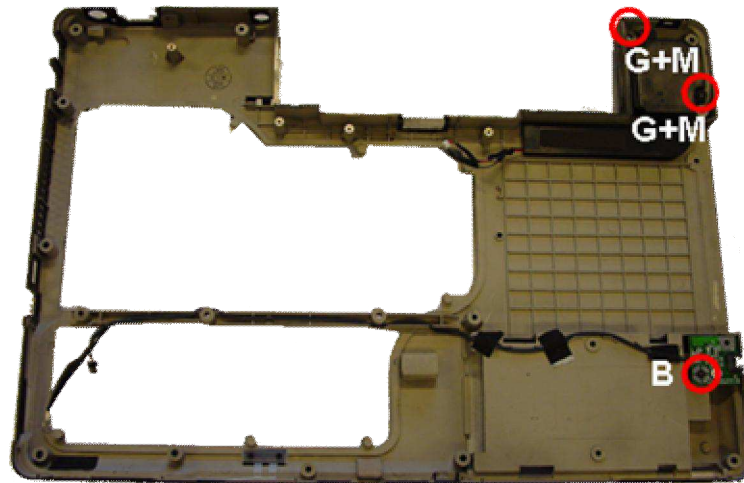
**Fig. 23** The bottom base assembly.

4. Remove the screws from the rear (2xB).



*Fig. 24 The screws at the bottom base rear.*

5. Remove bottom cover from base assembly.
6. Disconnect the subwoofer connector.
7. Remove the screws (2xG) and lift out the subwoofer assembly.
8. Remove the rubber stabilizers (2xM) from the subwoofer assembly.
9. Remove the screw (1xB) from the modem connector board.



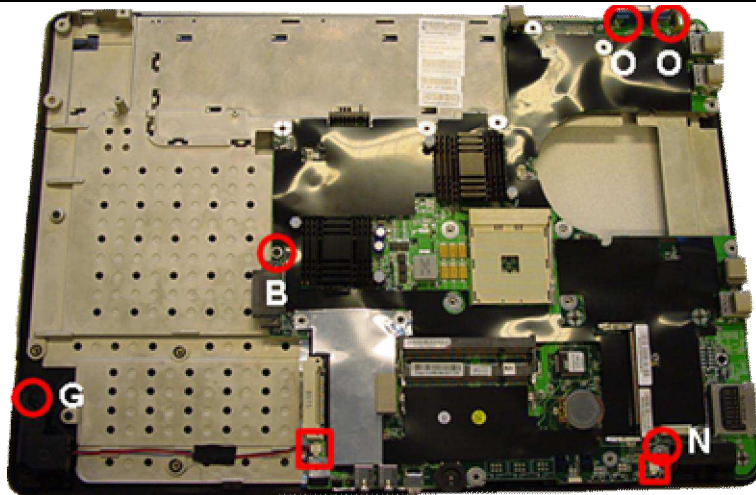
*Fig. 25 The bottom cover.*

10. Disconnect the cable connector from the modem connector board.

## **Main Board Assembly**

To remove the main board from the top cover, follow the steps below:

1. Remove the screws (2xO) from the VGA connector on the rear.
2. Disconnect left speaker connector from main board.
3. Remove the screw (1xN).
4. Slightly lift main board and slide out left speaker assembly.
5. Disconnect right speaker from main board.
6. Remove the screw (1xG) and take away the right speaker assembly.
7. Remove the screw (1xB) from main board.



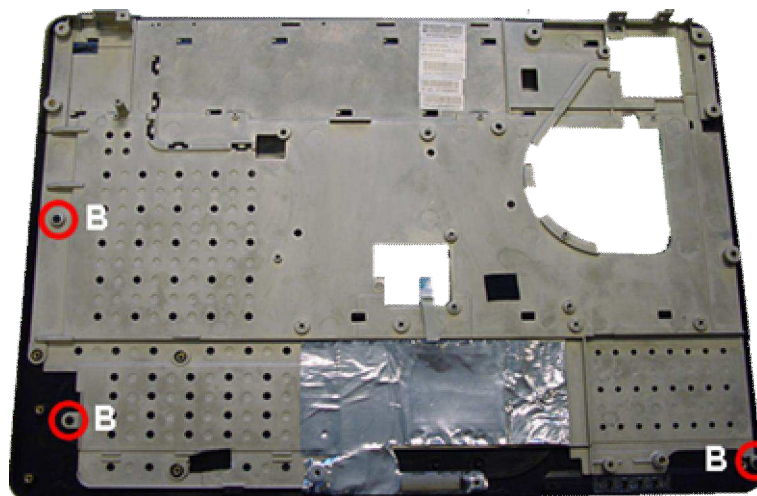
**Fig. 26** The main board and speakers.

8. Take away the main board.
9. Partially remove the foil over the touchpad.
10. Disconnect the touchpad cable.



**Fig. 27** The touch pad connector.

11. Remove the screws (3xB) and remove the heat plate.
12. Push out the touchpad assembly.



**Fig. 28** Removing the heat plate.

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**Notice**

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