

# FIELD REPLACEABLE UNIT DOCUMENTATION

## **Satellite™** **1900 Series**

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### GENERAL INFORMATION

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#### **Tools Required for Proper Disassembly and Reassembly:**

- 1. Phillips Screwdrivers (Size 1&0)**
- 2. 3mm Flat head Screwdriver**
- 3. Security Torx (Size 6)**
- 4. Case Separator**
- 5. ESD Wrist Strap**
- 6. ESD mat**
- 7. Tweezers**

Before attempting any of the following procedures, make sure that the main battery and AC adaptor is not connected to the unit and the environment in which you are working on is protected from Electro-Static Discharge(ESD).

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## **Satellite<sup>TM</sup>** **1900 Series**

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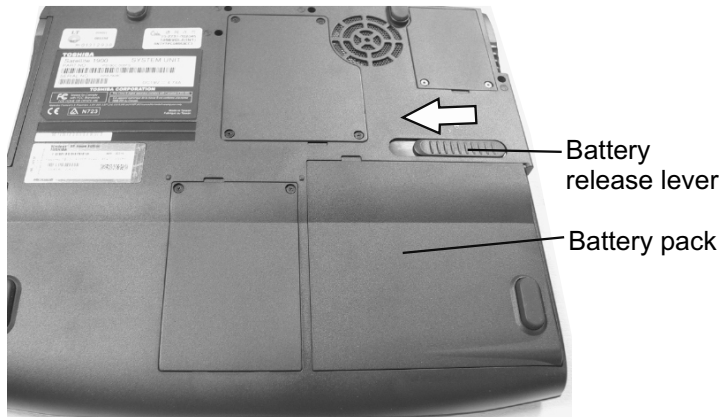
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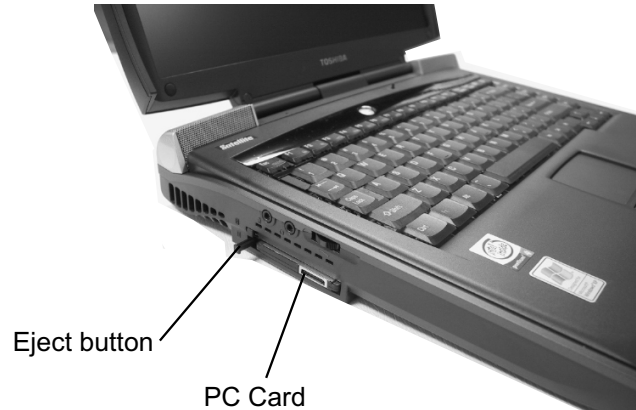
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### BATTERY PACK REMOVAL



1. Turn the computer upside down as shown.
2. Slide the **battery release lever** in the direction of the arrow.
3. Lift out the **battery pack**.
4. Separate the battery pack from the battery cover.

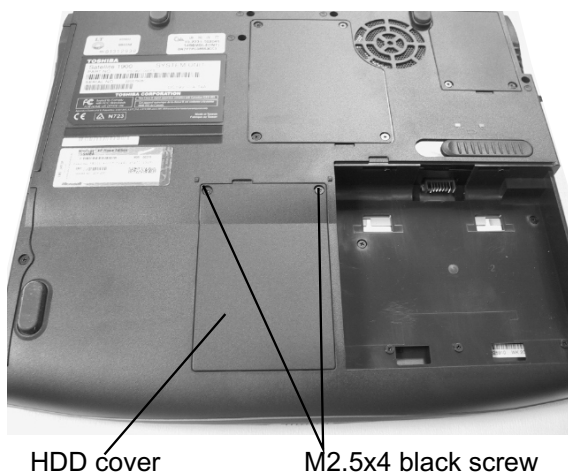
### OPTIONAL PC CARD REMOVAL



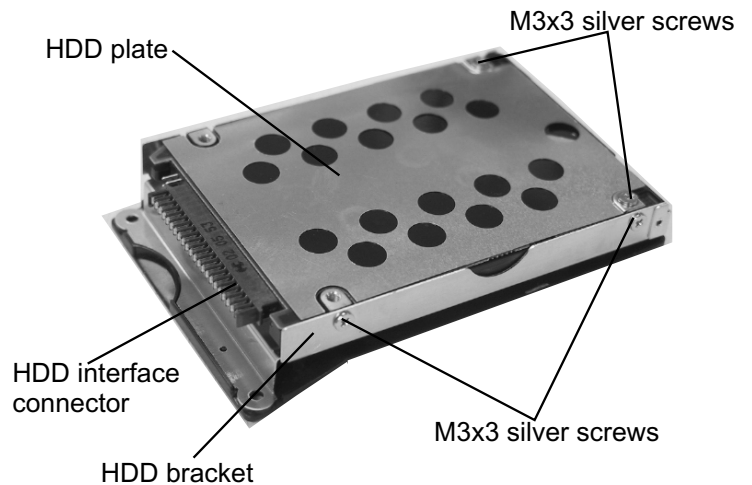
1. Press the **eject button** of the PC Card you want to remove.
2. Press the extended **eject button** to pop the **PC card** out slightly.
3. Grasp the **PC Card** and pull it out

**NOTE:** Before removing any PCMCIA device, make sure it is "STOPPED" in the PC Card Manager.

### HDD REMOVAL



1. Turn the computer upside down.
2. Remove **two M2.5x4 black screw** securing HDD assembly and lift it out.

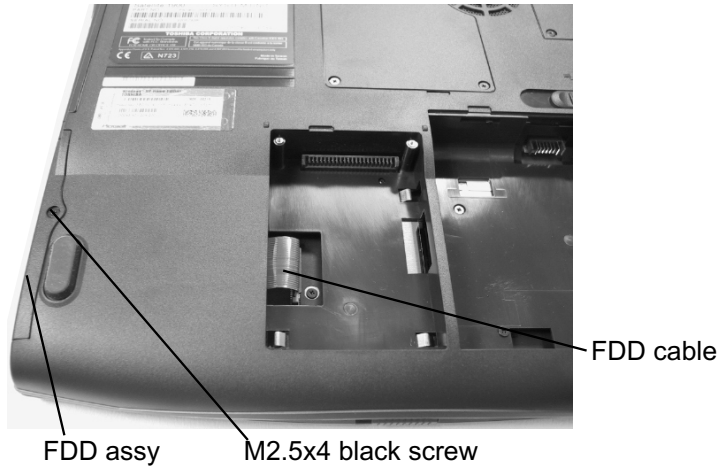


3. Remove the **HDD interface connector**.
4. Remove **two M3x3 silver screws** securing the HDD plate and lift out the **plate**.
5. Remove **four M3x3 silver screws** securing the HDD bracket and separate the HDD from the bracket..

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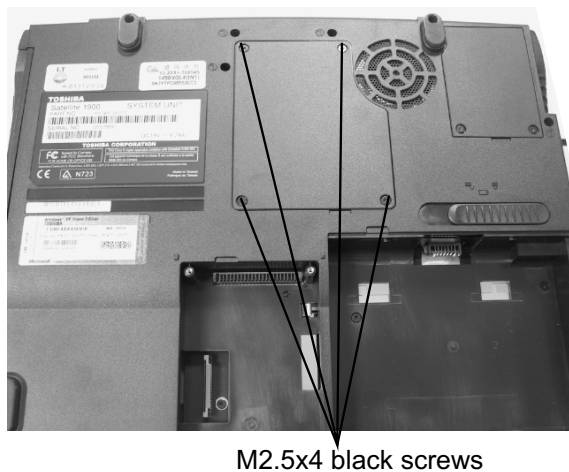
### FDD REMOVAL



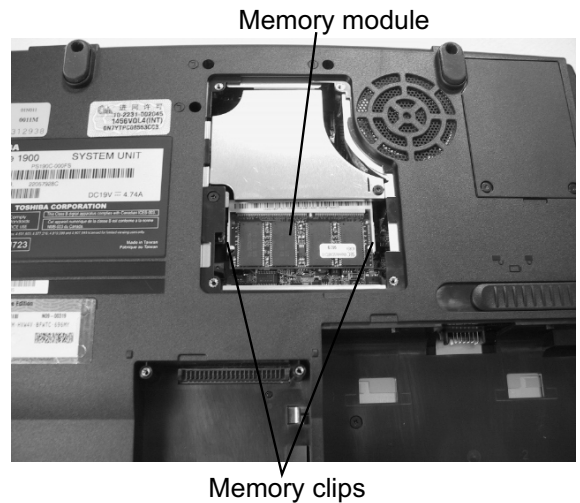
1. Remove **one M2.5x4 black screw** securing the FDD assembly.
2. Disconnect the **FDD cable** from the system board.
3. Slide the **FDD assembly** to the right and lift it out.

4. Remove **two M2x3 black screws** securing the FDD bezel from the FDD and lift out the **bezel**.
5. Disconnect the **FDD cable** from the FDD.

### MEMORY MODULE REMOVAL



1. Turn the computer upside down.
2. Remove **four M2.5x4 black screws** securing the memory cover.
3. Lift out the **cover**.



4. Gently press out on the **memory clips** and pull the memory module out of the connector on a 45 degree angle.

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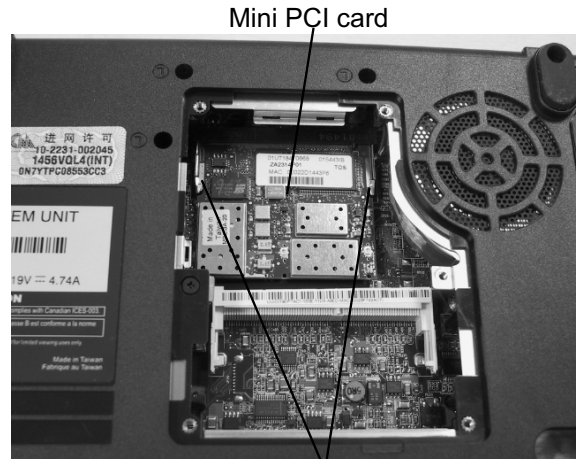
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### MINI PCI CARD REMOVAL



Mini PCI slot cover      M2.5x4 black torx screws

1. Remove **one M2.5x4 black torx screws** securing the Mini PCI slot cover.



PCI clips

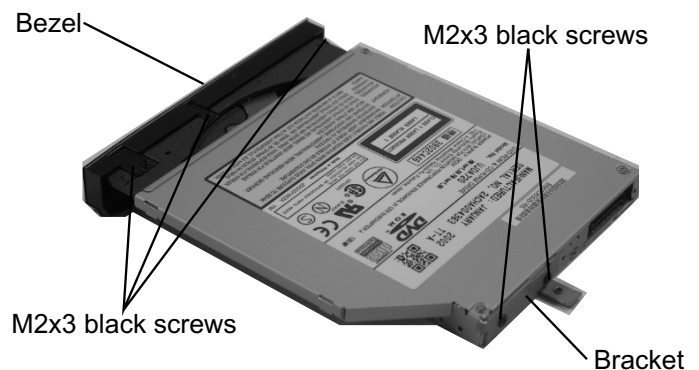
2. Gently press out the **Mini PCI slot clips** and pull the **Mini PCI card** out of the connector on a 30 degree angle.

### CD-R/W/DVD-ROM DRIVE REMOVAL



DVD-ROM drive

1. Remove **one M2.5x4 black screws** securing the DVD-ROM drive.
2. Slide the **DVD-ROM drive** to the left to disconnect it from PJ23 on the system board.



M2x3 black screws

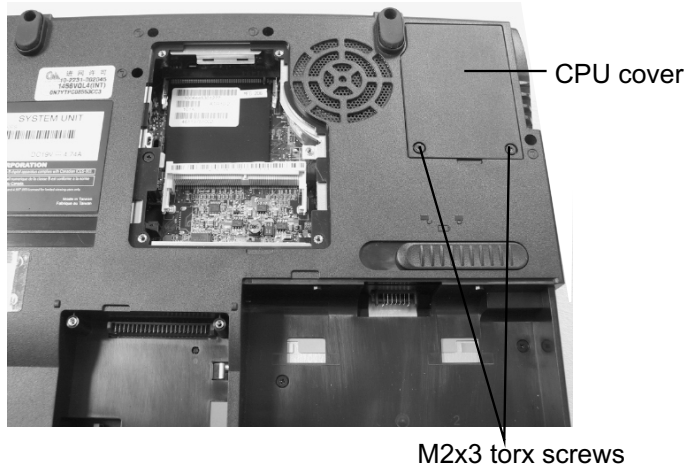
Bracket

3. Remove **two M2x3 black screws** securing the CD-R/W/DVD-ROM bracket and lift it out.
4. Remove **three M2x3 black screws** securing the CD-R/W/DVD-ROM bezel and lift it out.

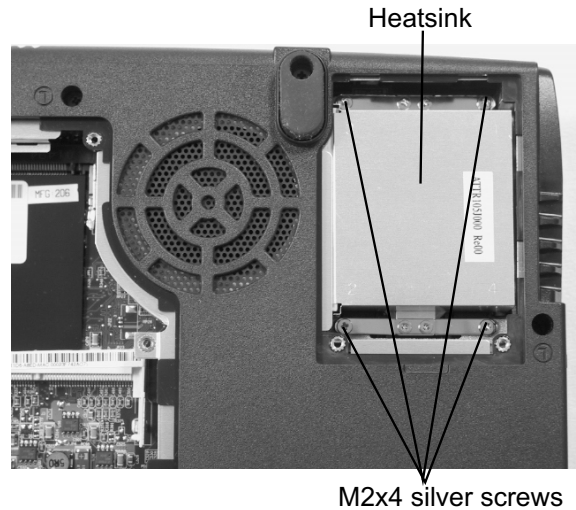
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### CPU REMOVAL

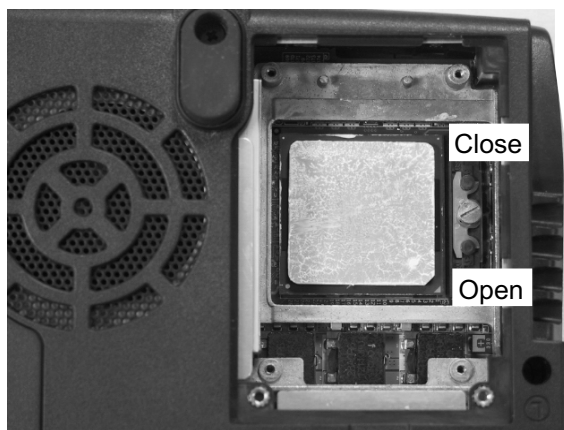


1. Turn the computer upside down.
2. Remove **two M2x3 torx screws** securing the CPU cover



3. Remove **four M2x4 silver screws** securing the cooling module.
4. Gently lift up the heatsink.

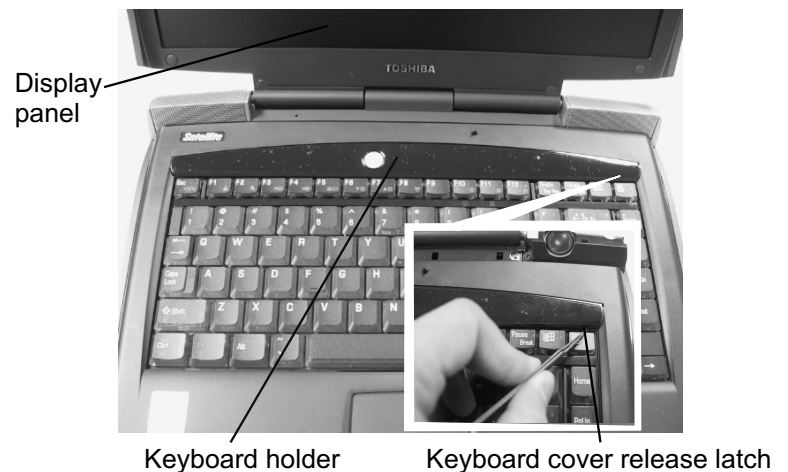
### CPU REMOVAL



1. Rotate the **CPU lock** counter-clockwise, to the **OPEN** position, and lift the CPU out of the socket.

**NOTE:** When installing the CPU, make sure that a silicone grease is applied before attaching the heat sink.

### KEYBOARD REMOVAL

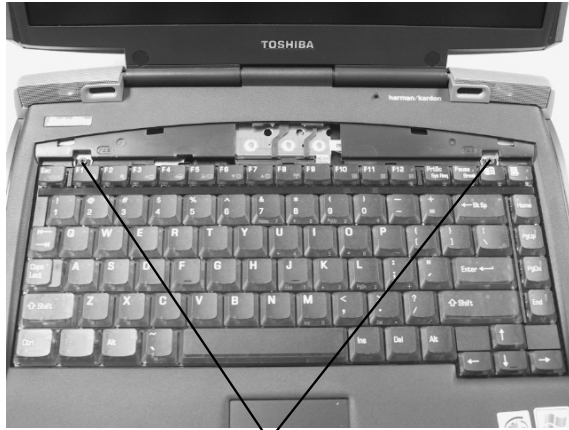


1. Open the **display panel**.
2. Insert a fine-tipped tweezers into the keyboard cover release latch and slide it to the right to release the latches securing the keyboard holder.
3. Lift out the **keyboard holder**.

# FIELD REPLACEABLE UNIT DOCUMENTATION

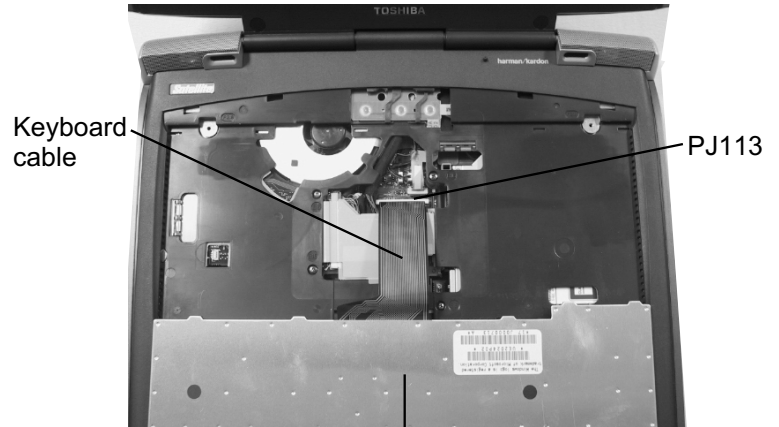
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### KEYBOARD REMOVAL



M2.5x3 black screws

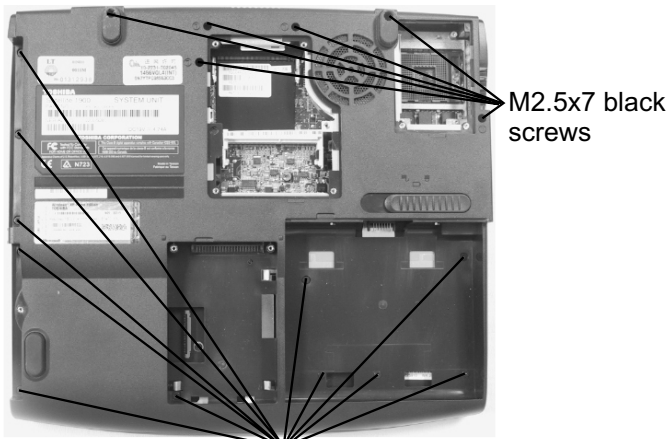
4. Remove **two M2.5x3 black screws** securing the keyboard.



Keyboard

5. Lift out the **keyboard** and set it on the palm rest.
6. Disconnect the **keyboard cable** from **PJ113** on the system board and lift out the keyboard.

### TOP COVER REMOVAL



M2.5x4 black screws

M2.5x7 black screws

1. Turn the computer upside down and remove the following sixteen screws:
  - **11 M2.5x4 black screws**
  - **6 M2.5x7 black screws**



M2.5x7 black screws

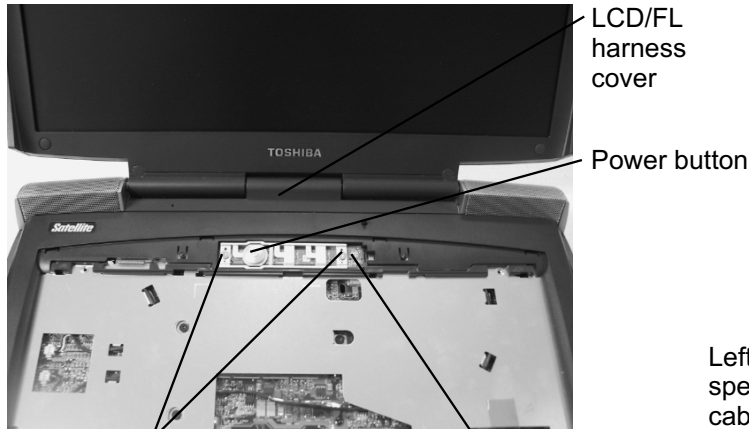
M2.5x4 black screw

2. Turn the computer right side up with the back facing you.
3. Remove **two M2.5x7 black screws** and **one M2.5x4 black screw** securing the top cover.

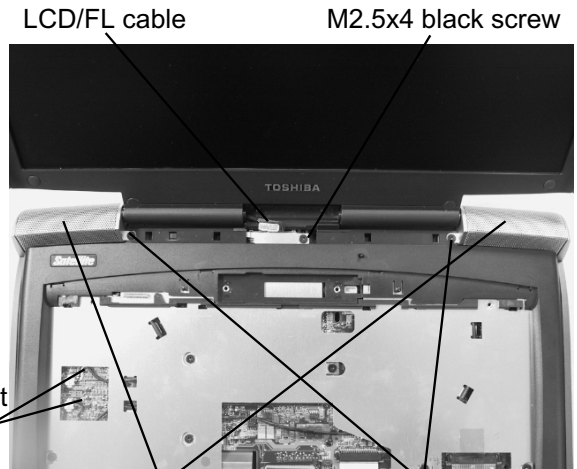
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### TOP COVER REMOVAL

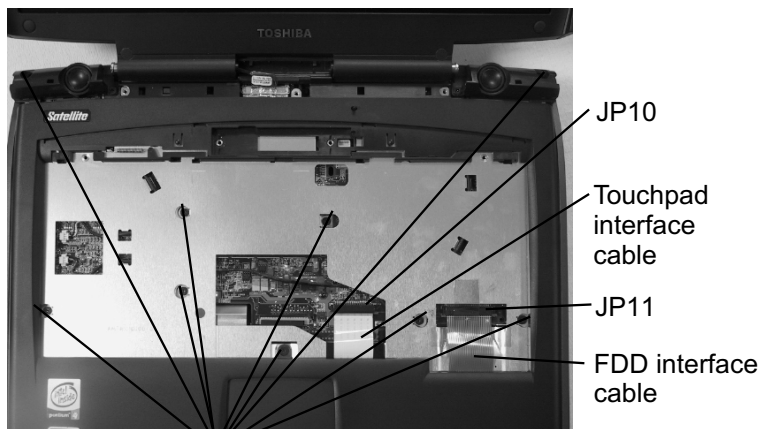


- Slide the **LCD/FL harness cover** to the right and lift it out.
- Remove **two M2.5x5 silver screws** securing the power button and the power switch board.
- Lift out the **power button** and the **power switch board**.



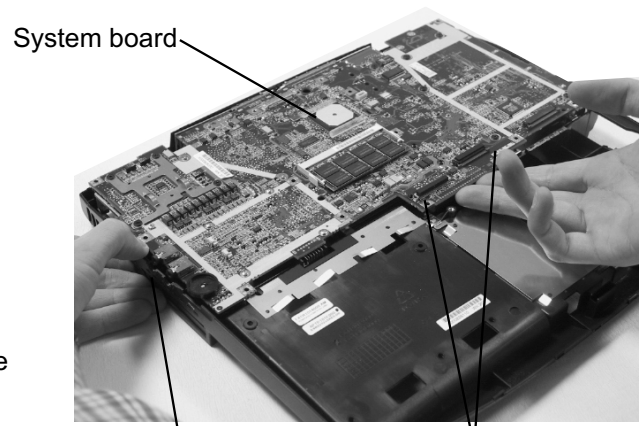
- Remove **two M2.5x4 black screws** securing the speaker cover and lift out the cover.
- Remove **one M2.5x4 black screw** securing the LCD/FL cable bracket. Remove the **bracket** and disconnect the **LCD/FL cable** from **JP1**.
- Disconnect the **Left/Right speaker cable** from **JP7** and **JP9** on the system board.

### TOP COVER REMOVAL



- Remove the mylar tape and disconnect the **FDD interface cable** from **JP11** on the system board.
- Disconnect **touchpad interface** cable from **JP10** on the system board.
- Remove **nine M2.5x7 black screws** securing the top cover.
- Using the case separator, separate the top cover from the bottom cover

### SYSTEM BOARD REMOVAL



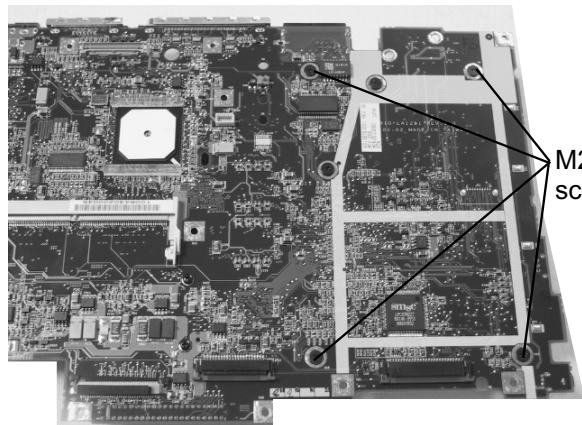
- Remove two M2.5x4 black screws securing the system board.
- Push the **PC card slot buttons** in or gently spread the bottom plastic close to the PC card slot and lift out the system as shown above.



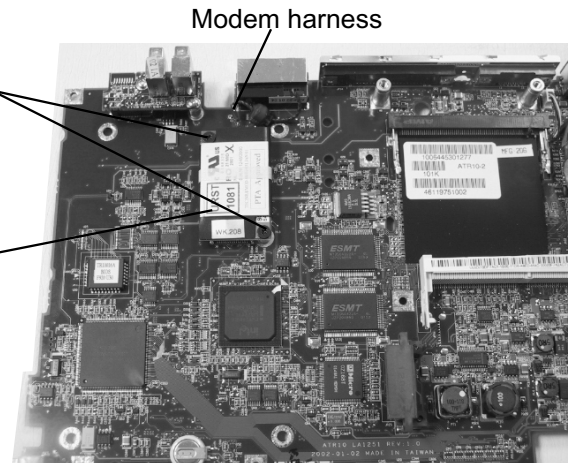
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### MODEM BOARD REMOVAL



M2.5x4 black screws



Modem harness

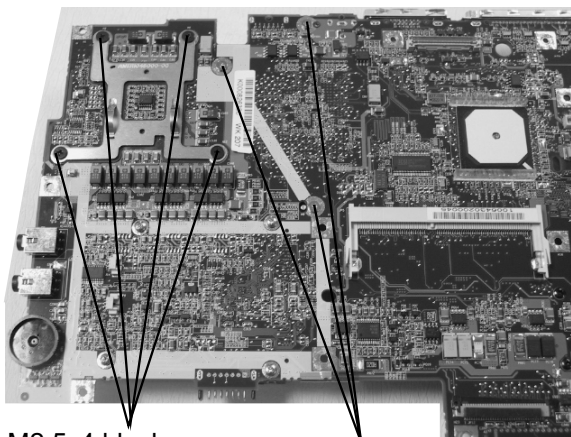
M2.5x4 black screws

Modem board

1. Remove **four M2.5x4 black screws** securing the CD-RW/DVD-ROM bracket.
2. Remove the **bracket**.

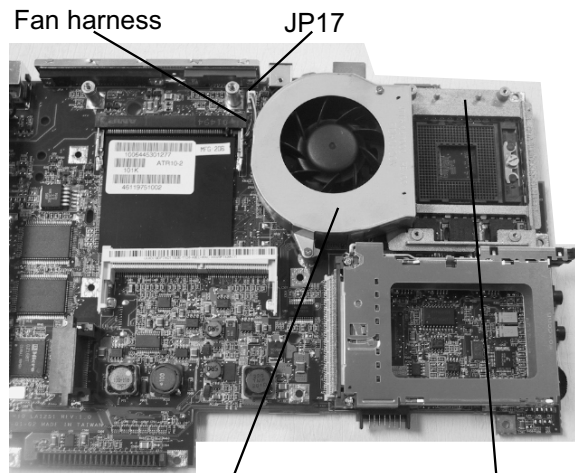
3. Turn the system board upside down and disconnect **modem harness** from the modem board.
4. Remove **two M2.5x4 black screws** securing the modem board.
5. Disconnect the **modem board** from **JP21** on the system board.

### COOLING MODULE REMOVAL



M2.5x4 black screws

M2x4 silver screws



Fan harness

JP17

Fan

Thermal support

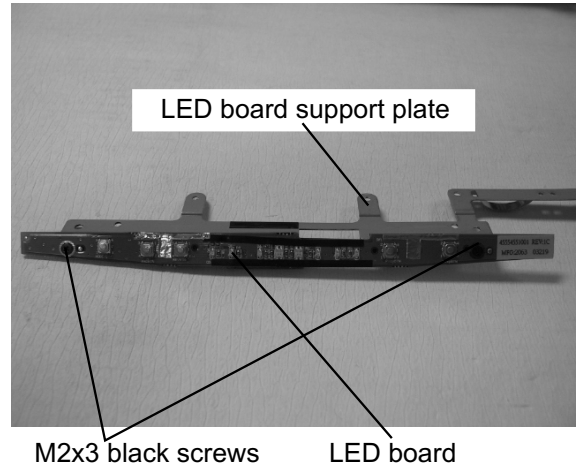
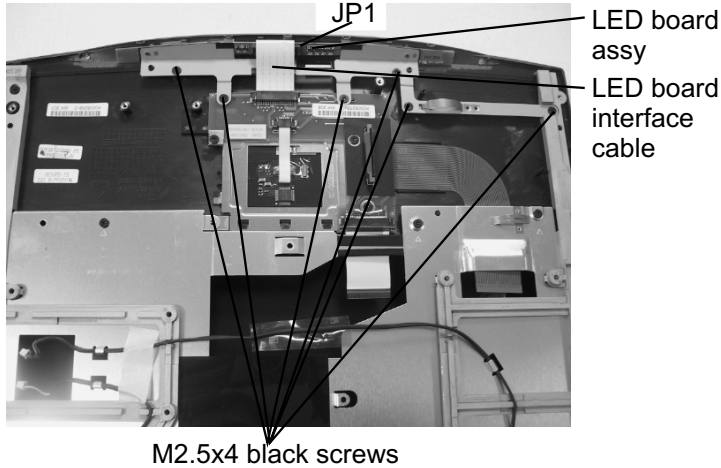
1. Remove **three M2x4 silver screws** securing the Fan.
2. Remove four **M2.5x4 black screws** securing the **thermal plate** and the thermal support.
3. Turn the system board upside down with your hand supporting both the FAN and the thermal support

4. Disconnect the **FAN harness** from **JP17**.
5. Lift out the **Fan** and the **thermal support**.

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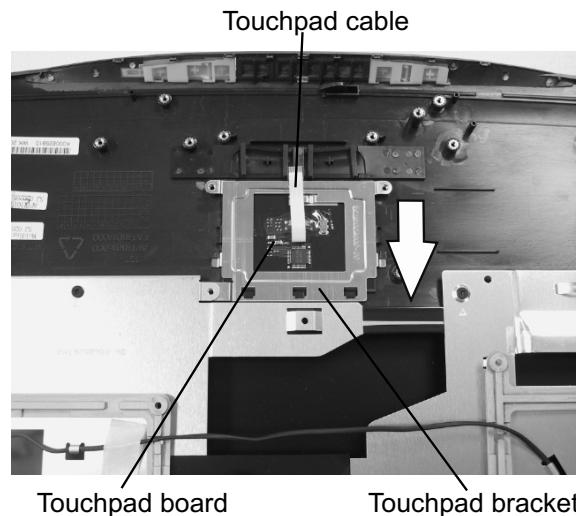
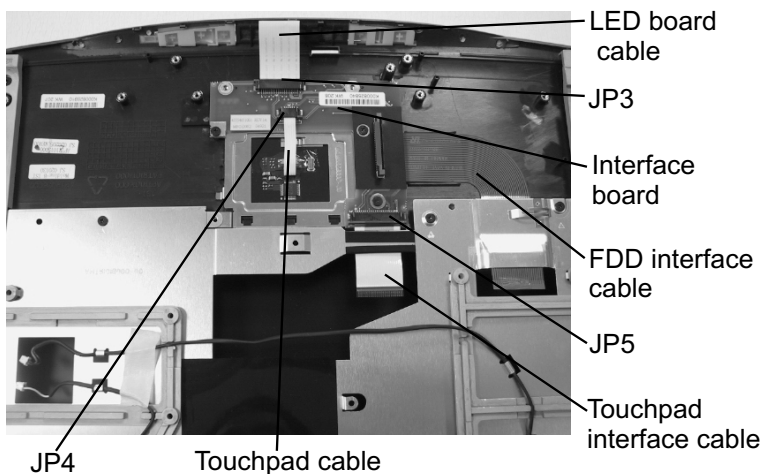
### LED BOARD REMOVAL



1. Disconnect the **LED board interface cable** from **JP1** on the LED board.
2. Remove **six M2.5x4 black screws** securing the LED board assembly.
3. Lift out the **LED board assembly**.

4. Remove **two M2x3 black screws** securing the LED board support plate and separate the plate from the LED board.

### TOUCHPAD BOARD REMOVAL



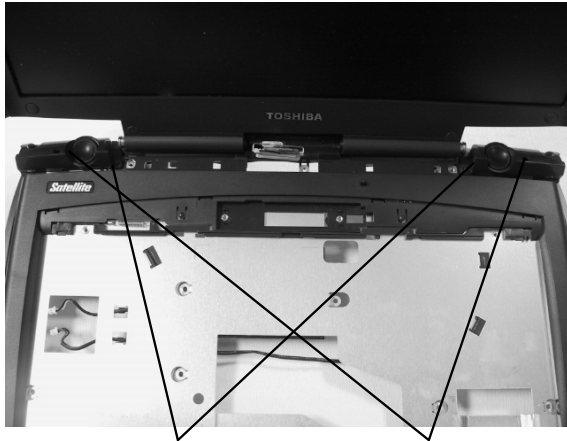
1. Disconnect the **LED board cable** from **JP3**, **FDD interface cable** from **JP1**, **touchpad interface cable** from **JP5**, and the **touchpad cable** from **JP4** on the interface board.
2. Remove **three M2.5x4 black screws** securing the interface board.
3. Lift out the **interface board**.

4. Disconnect the **touchpad cable** from the touchpad board
5. Slide the **touchpad bracket** to the direction of the arrow and lift it out.
6. Lift out the **touchpad board**.

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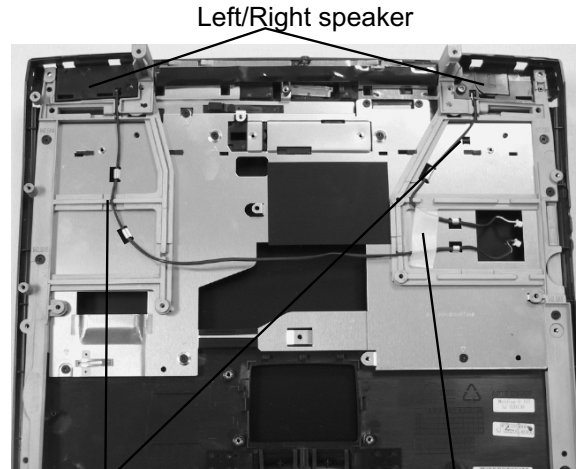
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### SPEAKERS REMOVAL



M2.5x4 black screws      Left and Right speakers

1. Remove **two M2.5x4 black screws** securing the left and right speakers.

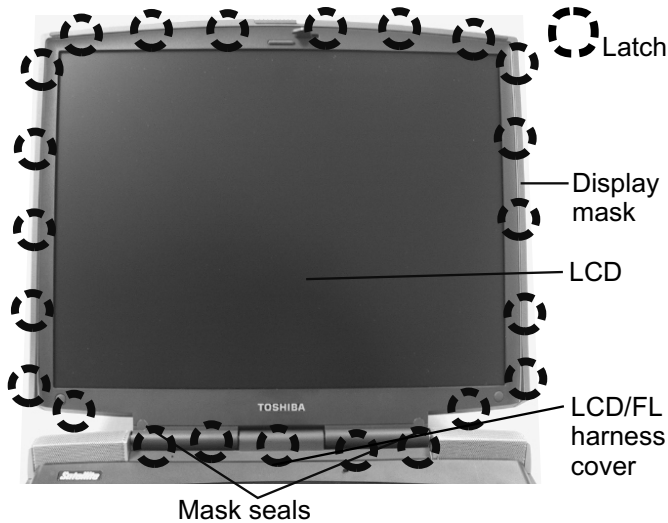


- Left/Right speaker
- Left and Right speaker cable      Tape
2. Peel off the **tape** securing the **left and right speaker cable**.
  3. Lift out the left and right speaker cable and remove both speakers.

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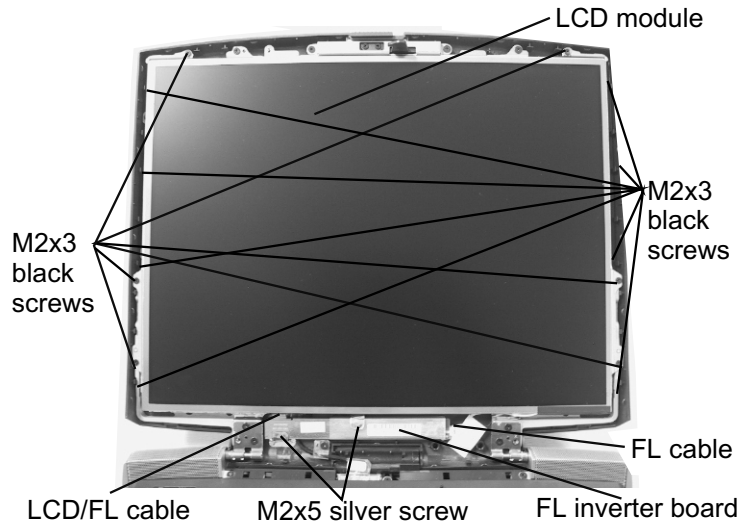
## Satellite™ 1900 Series

### 15" DISPLAY MASK REMOVAL



1. Slide the **LCD/FL harness cover** to the left and lift it out.
2. Remove **two mask seals** at the bottom corners of the display assembly using a pair of fine-tipped tweezers.
2. Remove **two M2.5x7 flat head black screws** securing the display mask.
3. There are **23 latches** securing the **display mask**. Carefully insert your fingers between the mask and the LCD panel and pry open the latches starting from the **bottom six latches**, to the **five latches on the right and left sides**, ending with the **six top latches**.

### FL INVERTER AND 15" LCD REMOVAL



1. Remove **two M2x5 silver screw** securing the FL inverter board.
2. Carefully lift up the **FL inverter board** and disconnect the **LCD/FL cable** from **CN1** and the **FL cable** from **CN2**.
3. Remove **four M2X3 black screws** securing the LCD module.
5. Carefully rotate out the top of the **LCD module** enough to access the display cable
6. Peel off the tape securing the LCD/FL cable and disconnect the cable.
6. Remove **eight M2x3 black screws** securing the left and right LCD brackets and separate the brackets.

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