**Harmonator
Enterprises**

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FIELD REPLACEABLE UNIT DOCUMENTATION

Satellite™

5000 Series

GENERAL INFORMATION

Tools Required for Proper Disassembly and Reassembly:

1. Phillips Screwdriver (Size 1)
2. 5mm Flat head Screwdriver
3. Security Torx (Size 7)
4. Case Separator
5. ESD Wrist Strap
6. ESD mats
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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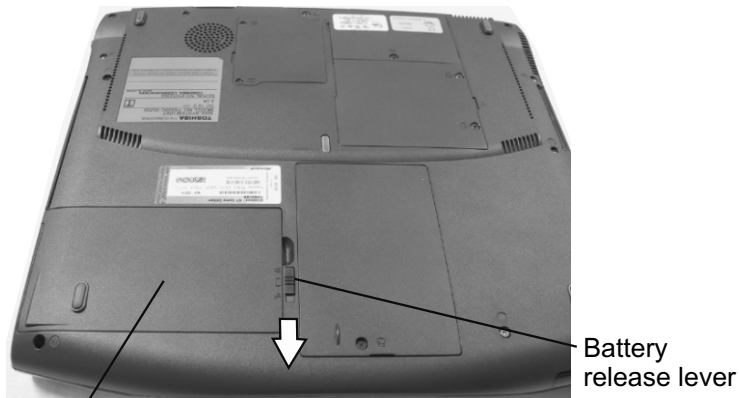**Tough Enough for Today's World**

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BATTERY PACK REMOVAL

Battery release lever
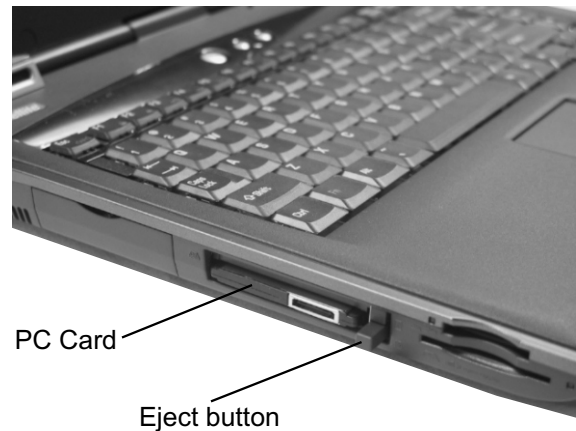
Battery pack

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

PC Card

Eject button

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 make it is "STOPPED" in the PC Card Manager.

HDD REMOVAL

HDD cover
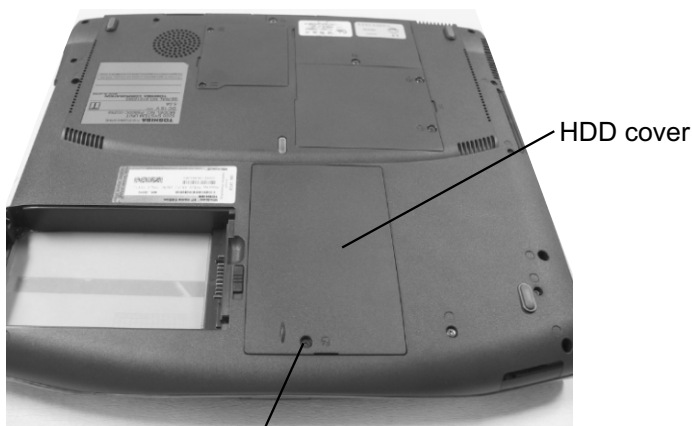
M2.5x4 black flat head screw

1. Turn the computer upside down.
2. Remove **one M2.5x4 black flat head screw** securing HDD slot cover and pull out the **cover**.
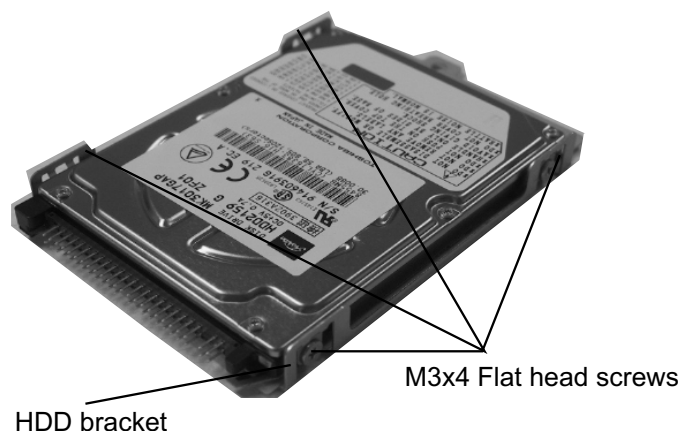
.

HDD bracket handle   HDD assy

3. Grasp the **HDD bracket handle** and pull to disconnect the HDD assembly.
4. Lift the **HDD assembly** out of the HDD bay.

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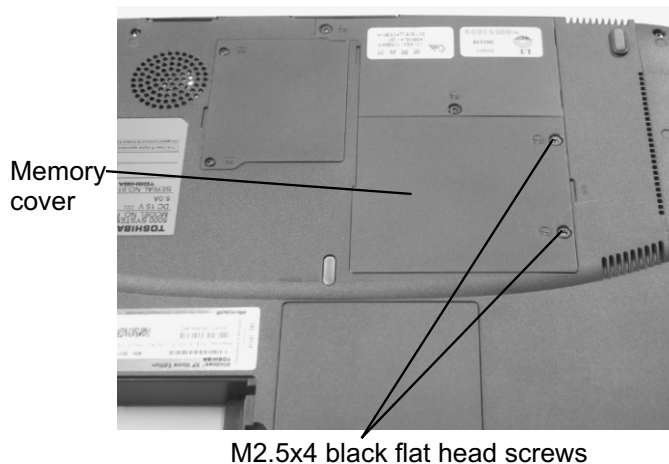## Satellite™
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HDD REMOVAL

M3x4 Flat head screws

HDD bracket

5. Remove **four M3x4 brass flat head screws** securing the HDD bracket to the drive.

MEMORY MODULE REMOVAL

Memory cover

M2.5x4 black flat head screws

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

MEMORY MODULE REMOVAL

Memory module
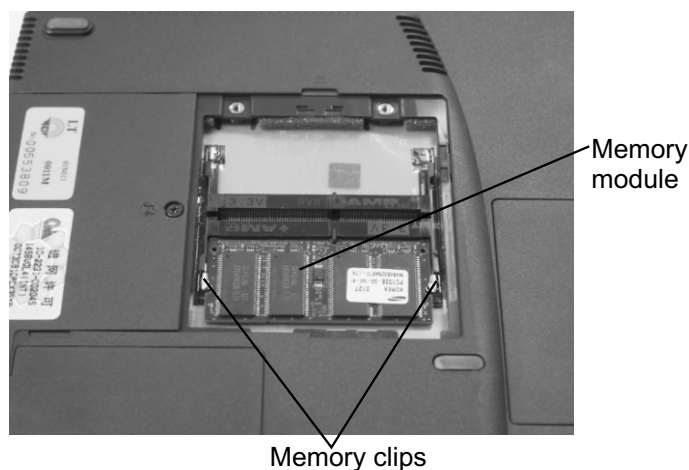
Memory clips

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

MINI PCI CARD REMOVAL

Mini PCI slot cover

M2.5x4 black torx screws
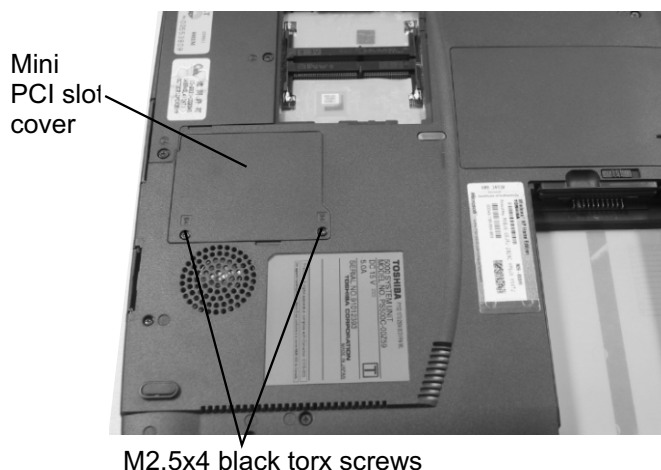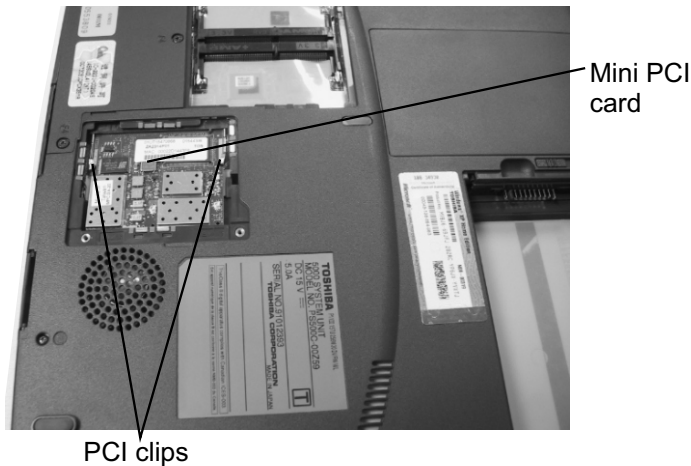
1. Turn the computer upside down.
2. Remove **two M2.5x4 black torx screws** securing the Mini PCI slot cover.

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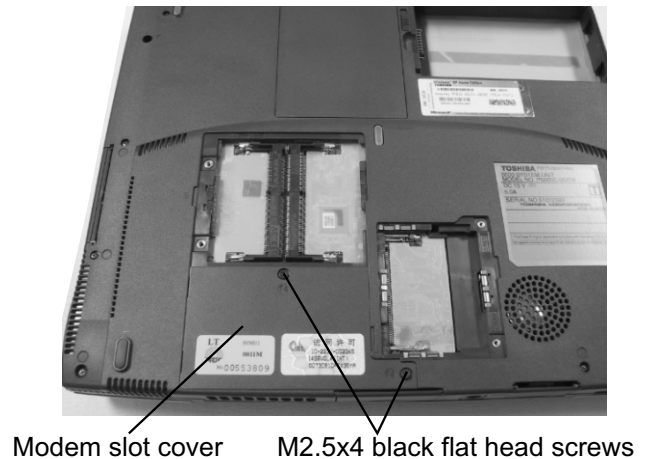# FIELD REPLACEABLE UNIT DOCUMENTATION
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MINI PCI CARD REMOVAL

Mini PCI card

PCI clips

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

MODEM BOARD REMOVAL

Modem slot cover   M2.5x4 black flat head screws

1. Remove **two M2.5x4 black flat head screws** securing the modem slot cover.
2. Insert your finger nail or the case separator into the notched side of the cover and lift up to release the latch securing the modem slot cover.

MODEM BOARD REMOVAL

Modem

M2x3 black screws   MJ Harness
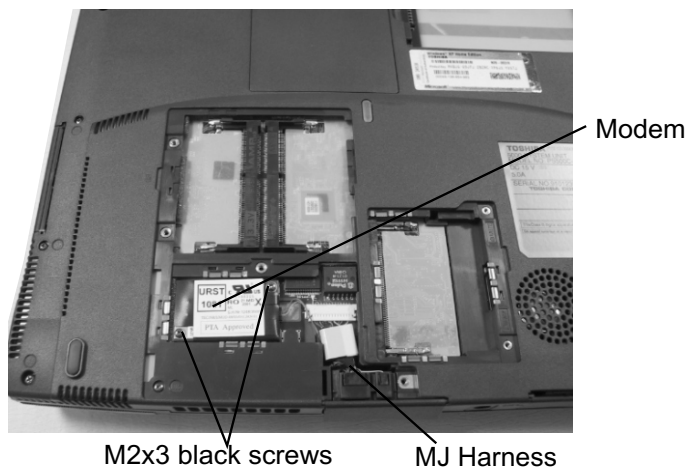
3. Disconnect the **MJ harness** from JP1 on the modem board and PJ108 on the system board.
4. Remove **two M2x3 black screws** securing the modem board.
5. Lift up the **modem board** to disconnect it from the system board.

KEYBOARD REMOVAL

Latch
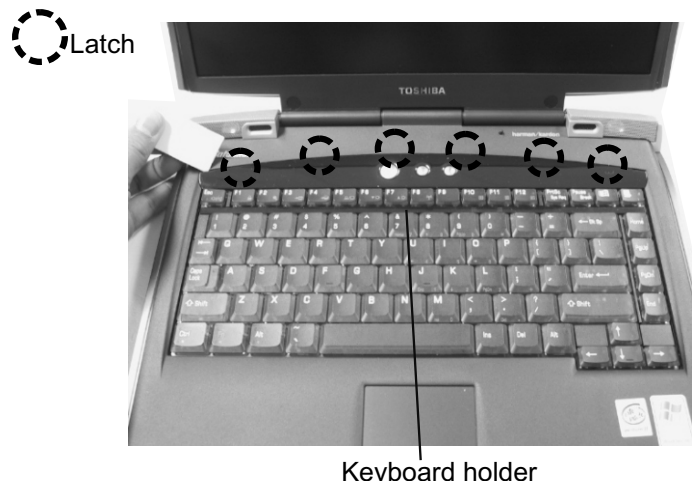
Keyboard holder

1. Open the display panel.
2. Remove the **keyboard holder** at the top of the keyboard.

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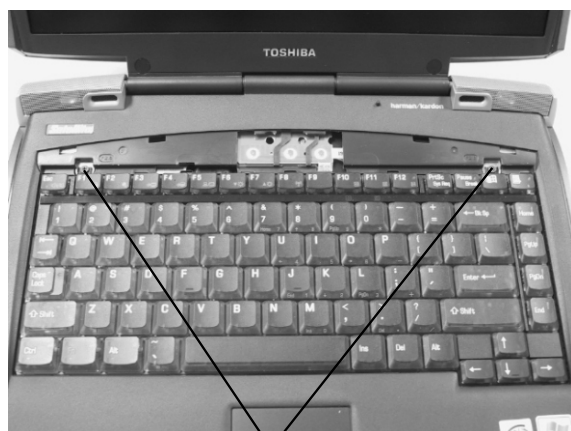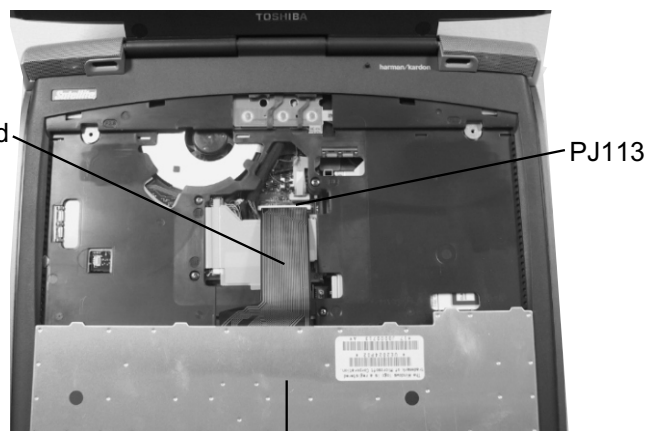
KEYBOARD REMOVAL

M2.5x2.8 black flat head screws

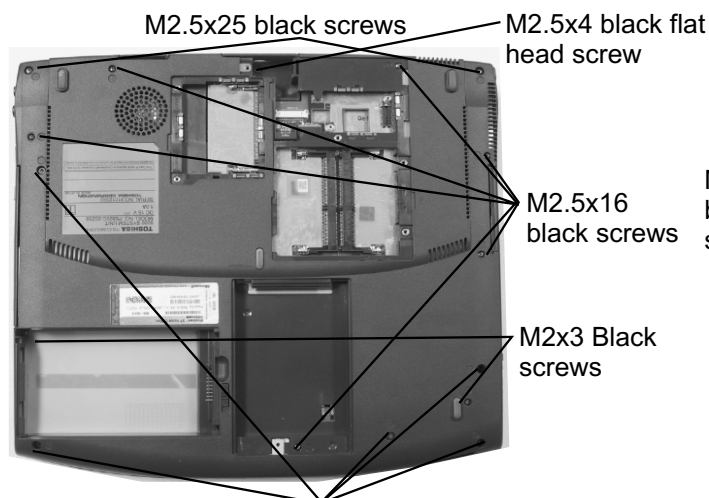3. Remove **two M2.5x2.8 black flat head screws** securing the keyboard.

Keyboard cable

PJ113

Keyboard

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

TOP COVER REMOVAL

M2.5x25 black screws

M2.5x4 black flat head screw

M2.5x16 black screws

M2x3 Black screws

M2.5x6 black flat head screws

1. Turn the computer upside down and remove the following sixteen screws:
   - **6 M2.5x16 black screws**
   - **2 M2.5x25 black screws**
   - **5 M2.5x6 black flat head screws**
   - **2 M2x3 black screws**
   - **1 M2.5x4 black flat head screw**

TOP COVER REMOVAL

M2.5x16 black screws

M2x4 brass screw

M2x6 brass screws

KB plate assembly
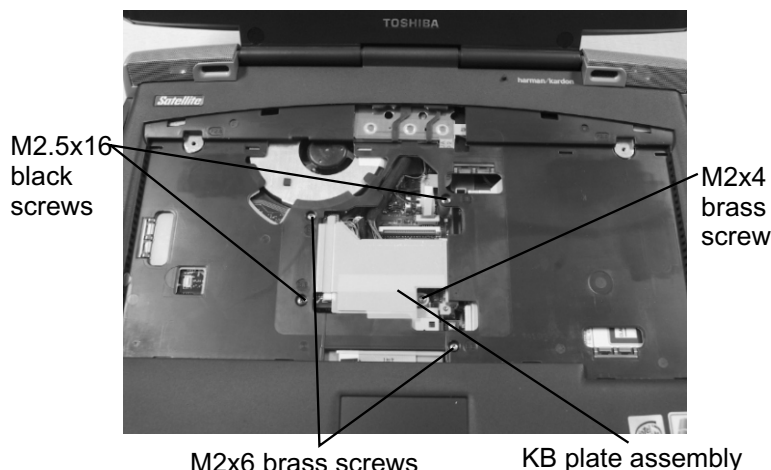
2. Turn the computer right side up and open the LCD panel.
3. Remove **one M2x4 brass screw** securing the KB plate and lift out the KB plate.
4. Remove **two M2.5x16 black screws** and **two M2x6 brass screws** securing the top cover.

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TOP COVER REMOVAL

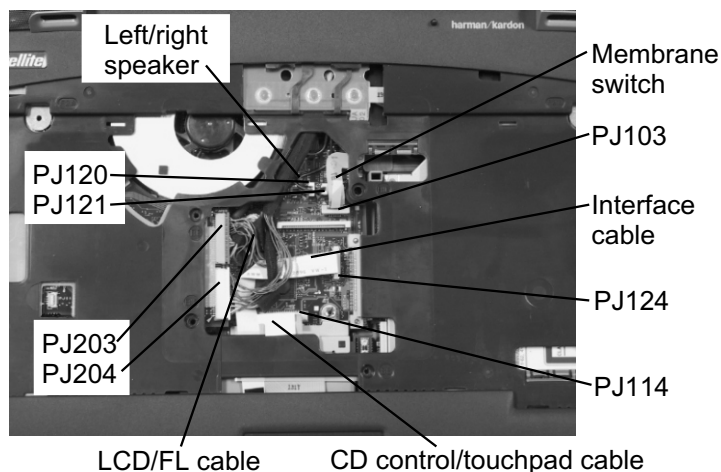Left/right speaker

Membrane switch

PJ103

PJ120
PJ121

Interface cable

PJ124

PJ203
PJ204

PJ114

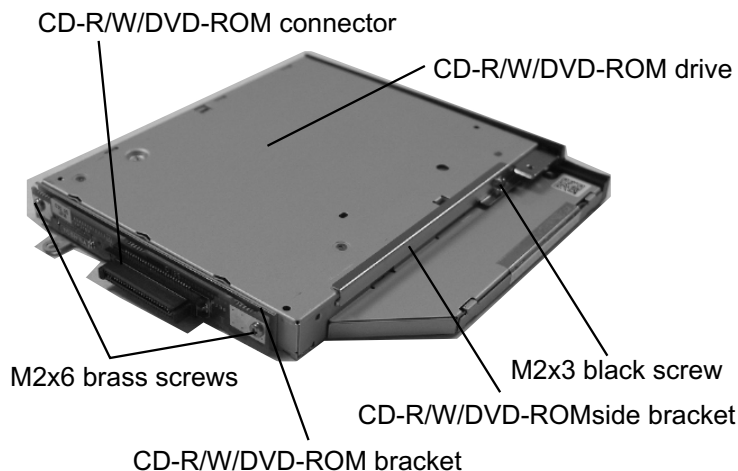LCD/FL cable   CD control/touchpad cable

1. Disconnect the **power/internet/in-touch cover sensor membrane switch** from **PJ103,** the **left** and **right speaker** cables from **PJ120** and **PJ121** on the system board.
3. Disconnect the **LCD/FL cable** from **PJ203** and **PJ204** on the video board.
4. Disconnect the **interface cable** and the **CD control/ touch pad cable** from **PJ124** and **PJ114** on the system board.

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

CD-R/W/DVD-ROM connector

CD-R/W/DVD-ROM drive

M2x6 brass screws

M2x3 black screw

CD-R/W/DVD-ROMside bracket

CD-R/W/DVD-ROM bracket

2. Remove **one M2x3 black screw** securing the side bracket and lift out the bracket.
3. Remove **two M2x6 brass screws** securing the CD-R/W/ DVD-ROM connector and the bracket.
4. Remove the **connector** and the **bracket**.

CD-R/W/DVD-ROM DRIVE REMOVAL

PJ106

CD-R/W/DV-ROM drive

1. Slide the **CD-R/W/DVD-ROM drive** to the right to disconnect it from **PJ106** on the system board.

SPEAKER(WOOFER) REMOVAL

Speaker (woofer)

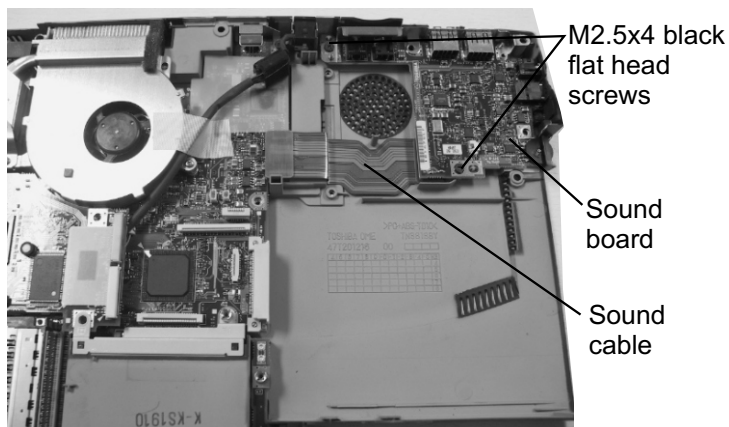woofer harness   Glass tape   PJ1106
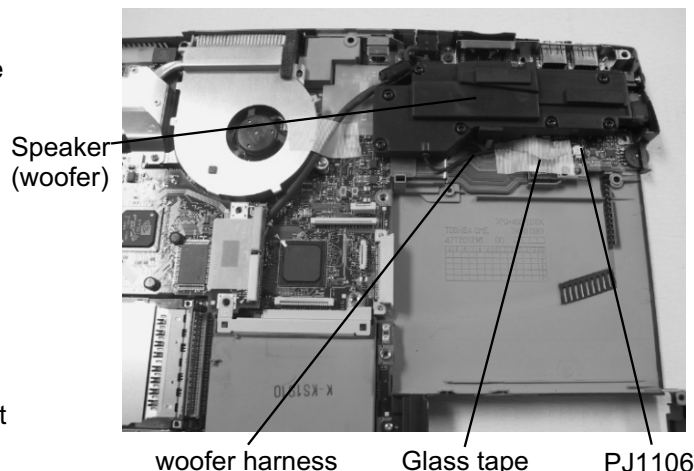
1. Peel off the **glass tape** securing the woofer harness.
2. Disconnect the **woofer harness** from **PJ1106** on the sound board.
3. Lift out the **speaker(woofer)**.

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SOUND BOARD REMOVAL

M2.5x4 black flat head screws

Sound board

Sound cable

1. Remove **two M2x4 black flat head screws** securing the sound board.
2. Lift out the **sound board** and disconnect the sound cable (FMZFL1) from **PJ1100** on the sound board.

BATTERY BOARD REMOVAL

Hex screw

M2x6 brass screws

Plastic brace
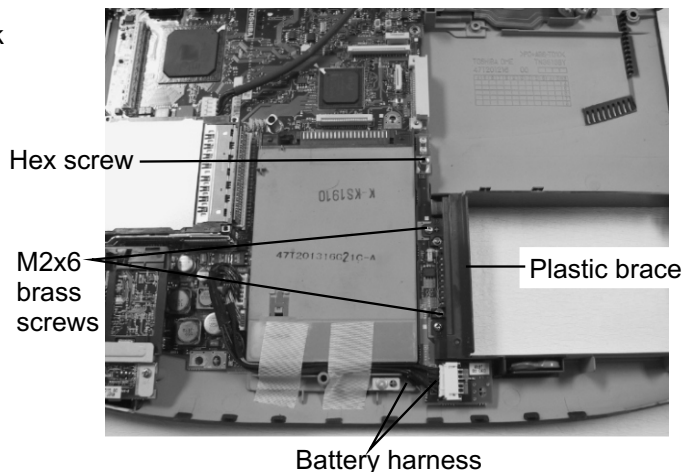
Battery harness

1. Remove **one hex screw** securing the battery board.
2. Remove **two M2x6 brass screws** securing the cpad cover and lift out the cover.
3. Disconnect the **two battery board harness** from PJ1000 and 10001 on the battery board.
4. Lift out the **battery board** assembly.

RTC REMOVAL

RTC battery

PJ752   RTC battery cable
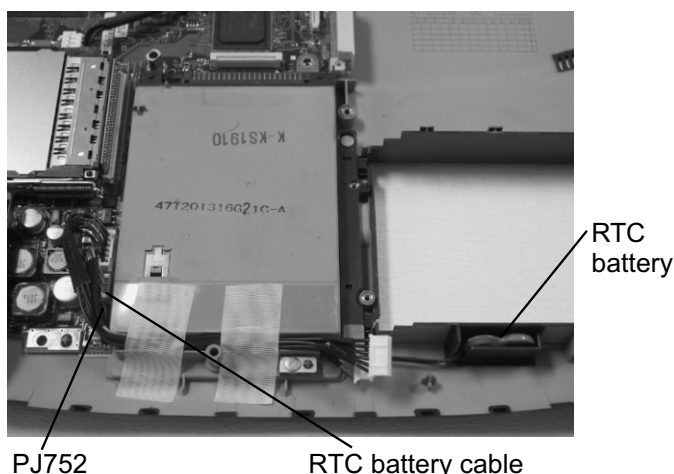
1. Remove the **glass tape** securing the battery harness and RTC battery.
2. Disconnect the **RTC battery cable** from **PJ752** on the system board.
3. Lift the **RTC battery** out of the slot.

SECURE DIGITAL(SD) BOARD REMOVAL

SD board

SD support plate   M2x4 brass screw
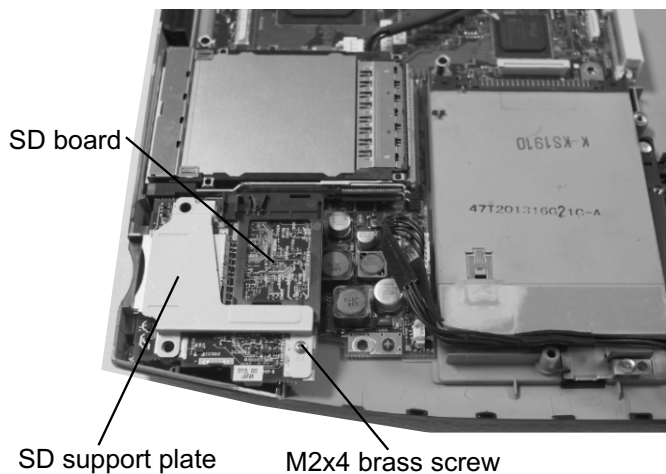
1. Remove **one M2x4 brass screw** securing the SD support plate and the sound FIR board.
2. Remove the **SD support plate** and lift up the back side of the **sound/FIR board** to disconnect it from PJ601 on the system board.

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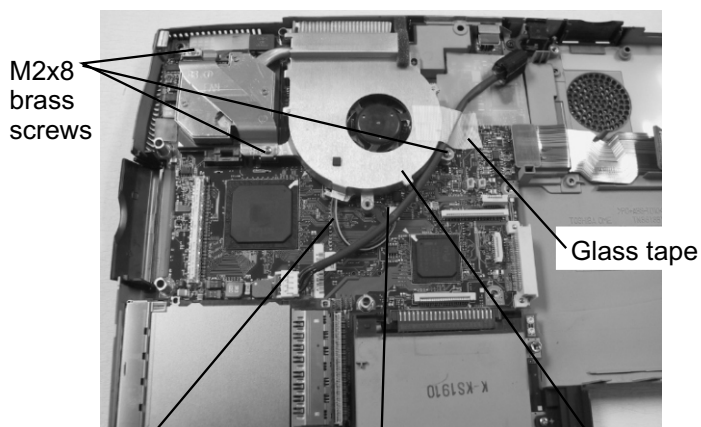
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## VIDEO BOARD REMOVAL

Hex screw

HDD con plate
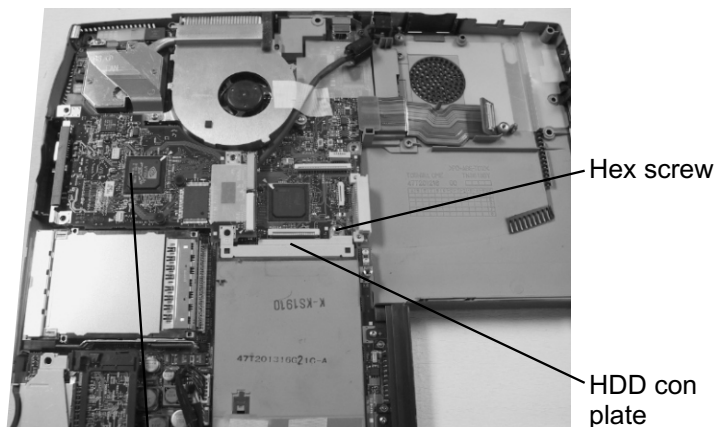
Video board

1. Remove **one hex screw** securing the HDD con plate and lift out the **plate**.
2. Disconnect the **video board** from system board.

COOLING MODULE REMOVAL

M2x8 brass screws

Glass tape

Fan harness   PJ770   Cooling module

1. Disconnect the **fan harness** from **PJ770** on the system board.
2. Remove **three M2x8 brass screws** and securing the cooling module to the system board.
3. Peel off the **glass tape** securing the DC harness and lift out the **cooling module**.

CPU REMOVAL

Silicone grease

CPU
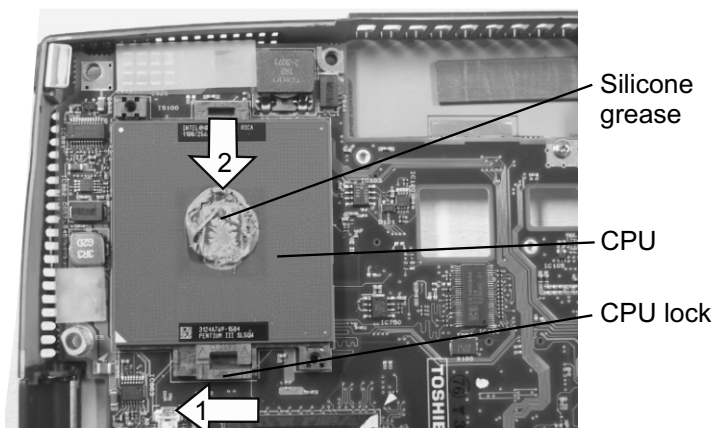
CPU lock

1. Slide the **CPU lock** in the direction of the arrow.
2. Insert a **5mm flat head screwdriver** on the top side of the CPU socket and push the socket in the direction of the arrow and lift out the **CPU**.

NOTE: When installing the CPU, make sure that a silicone grease is applied before attaching the heat sink. Please refer to FSB-200112 for the complete procedures on how to apply the silicone grease.

SYSTEM BOARD REMOVAL

Sound cable

PJ119

DC-IN harness

PJ800

PJ820

Battery harness   PJ821
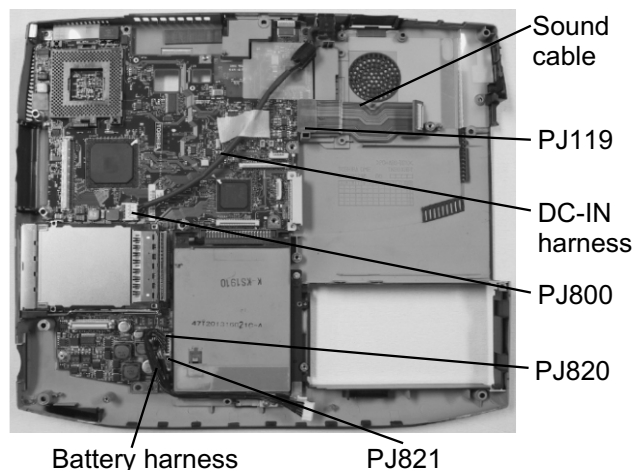
1. Disconnect the **DC-IN harness** from **PJ800** on the system board and remove it.
2. Disconnect the **sound cable** from **PJ119** on the system board.
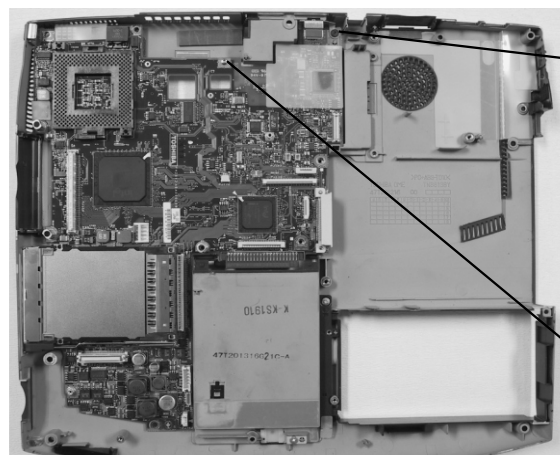3. Disconnect the **battery harness** from **PJ820** and **PJ821** on the system board.

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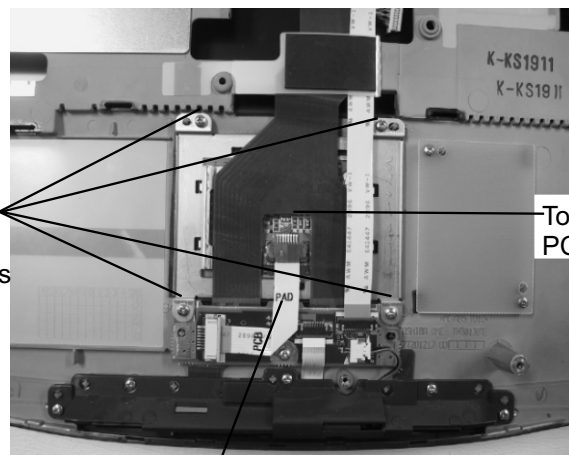## 5000 Series

SYSTEM BOARD REMOVAL

M2.5x4 flat head black screw

M2x4 brass screw

4. Remove **one M2x4 brass screw** and **one M2.5x4 flat head black screw** securing the system board.
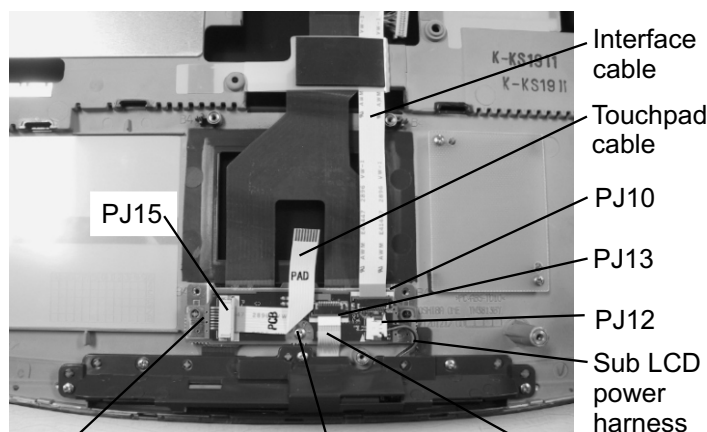5. Lift out the **system board**.

TOUCHPAD REMOVAL

M2x4 brass screws

Touchpad PCB

Touchpad cable

1. Disconnect the **touchpad cable** from the touchpad PCB.
2. Remove **four M2x4 brass screws** securing the touchpad assembly.
3. Lift out the **touchpad PCB**.

INTERFACE BOARD REMOVAL

Interface cable

Touchpad cable

PJ10

PJ13

PJ12
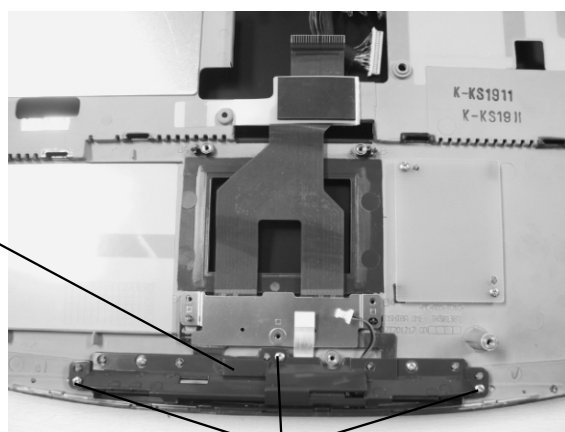
Sub LCD power harness

PJ15

Interface board   M2x4 brass screw   Sub LCD cable

1. Disconnect the **touchpad cable** from **PJ15**, the **interface cable** from **PJ10**, the **sub LCD cable** from **PJ13** and the **sub LCD power harness** from **PJ12**.
2. Remove **one M2x4 brass screw** securing the interface board.
3. Lift out the **interface board**.
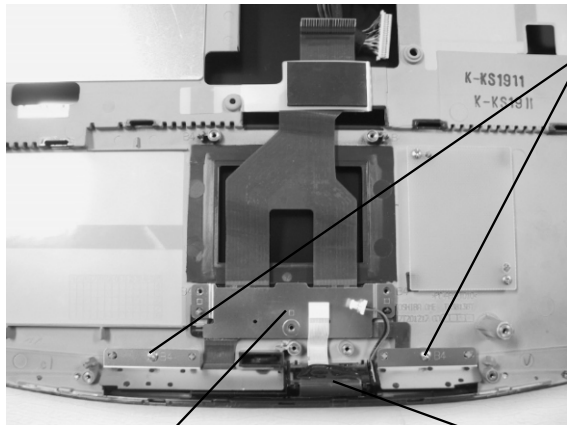
CD CONTROL/SUB LCD REMOVAL

Button holder

M2x4 brass screws

1. Remove **three M2x4 brass screws** securing the button holder.
2. Lift out the **button holder**.

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CD CONTROL/SUB LCD REMOVAL

M2x4 brass screws

CD control/touchpad button assy   Sub LCD assy

3. Remove **two M2x4 brass screws** securing the CD control/touchpad button assembly.
4. Lift out the **CD control/touchpad button assembly**.
5. Lift out the **sub LCD assembly**.
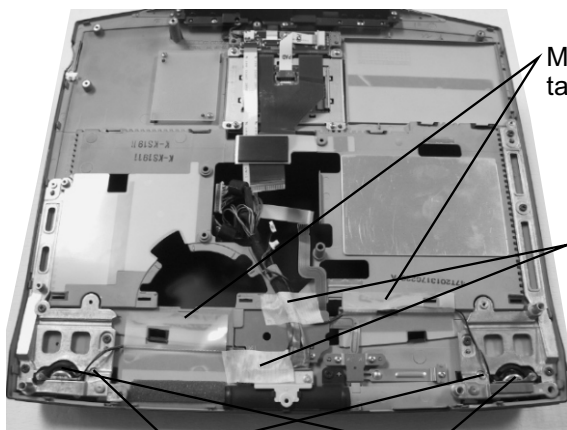
SENSOR SWITCH REMOVAL

Sensor switch assy

M2x4 brass screws

1. Remove **four M2x4 brass screws** securing the sensor switch assembly.
2. Lift out the **sensor switch assembly**.

SPEAKERS REMOVAL

Mylar tapes

Glass tapes

M2x6 brass screws   Left and Right speakers

1. Peel off the **glass tapes** and **mylar tapes** securing the left and right speaker cables.
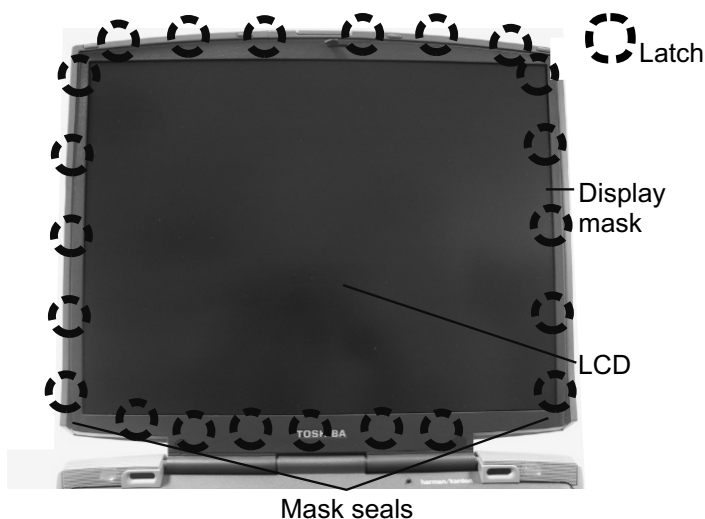2. Remove **two M2x6 brass screws** securing the left and right speakers.

Left and Right speaker covers

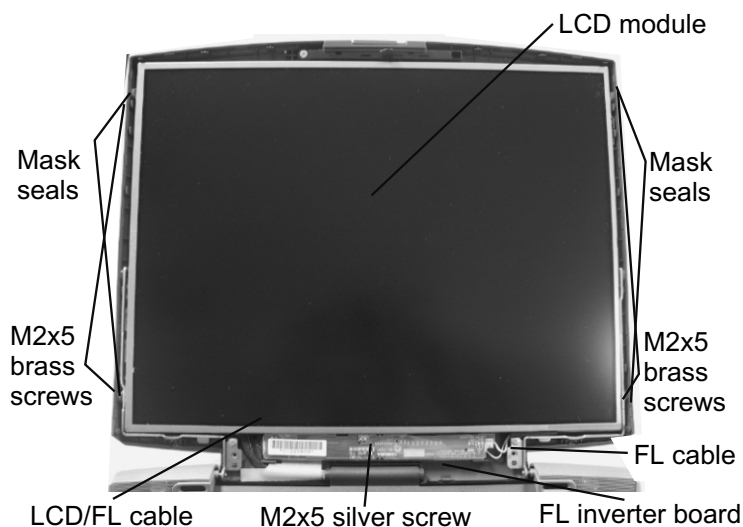3. Remove the **left** and **right speaker covers** and lift out the speakers.

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15" DISPLAY MASK REMOVAL

Latch

Display mask

LCD

Mask seals

1. Remove **two mask seals** at the bottom corners of the display assembly using a pair of fine-tipped tweezers.
2. Remove **two M2.5x6 flat head brass screws** securing the display mask.
3. There are **22 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 toplatches**.

FL INVERTER AND 15" LCD REMOVAL

LCD module

Mask seals

Mask seals

M2x5 brass screws

M2x5 brass screws

FL cable

LCD/FL cable   M2x5 silver screw   FL inverter board

1. Remove **one 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 mask seals** to expose four screws securing the LCD module assembly.
4. Remove **four M2X5 silver 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.

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