FIELD REPLACEABLE UNIT DOCUMENTATION

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Tools Required for Proper Disassembly and Reassembly:
1. Phillips screwdriver (Size 0)
2. Phillips Screwdriver (Size 1)
3. Flat head screwdriver (5mm)
4. Hex driver (5mm)
5. Security Torx(Size8)
6. Case Separator
7. ESD Wrist Strap
8. ESD mats
9. 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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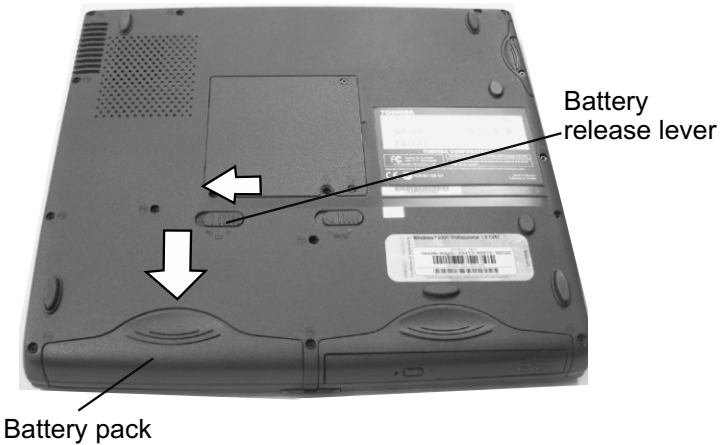# FIELD REPLACEABLE UNIT DOCUMENTATION

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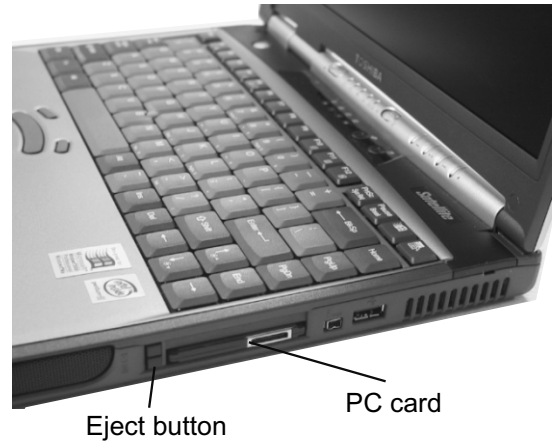## Satellite™
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BATTERY PACK REMOVAL

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.
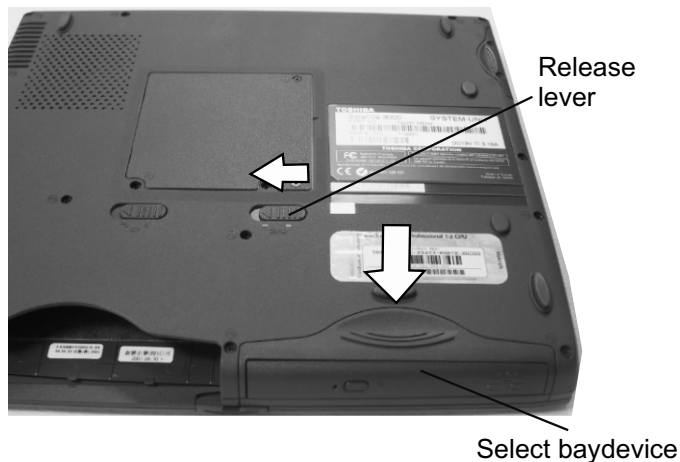3. Slide the **battery pack** forward and lift it out.

OPTIONAL PC CARD REMOVAL

PC card

Eject button

1. Push the **eject button** to pop it out.
2. Press the **eject button** and remove the **PC card**.

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

MODULAR BAY REMOVAL

Release lever

Select baydevice

1. Turn the computer upside down.
2. Slide the **release lever** in the direction of the arrow.
3. Pull out the **modular bay device** in the direction of the arrow.

DVD-ROM/CDR-W DRIVE REMOVAL

DVD-ROM/CDR-W connector

DVD-ROM/CDR-W

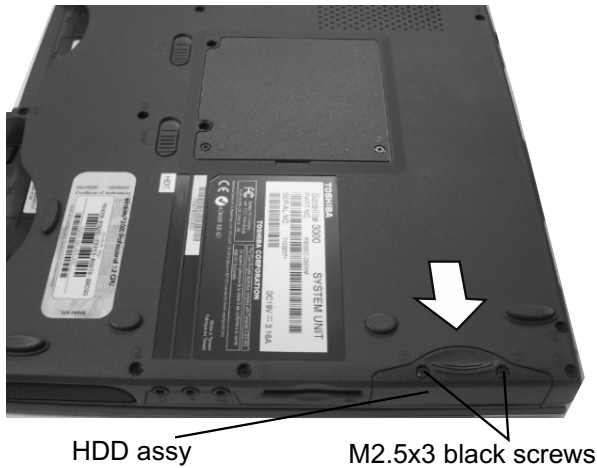DVD-ROM/CDR-W bracket
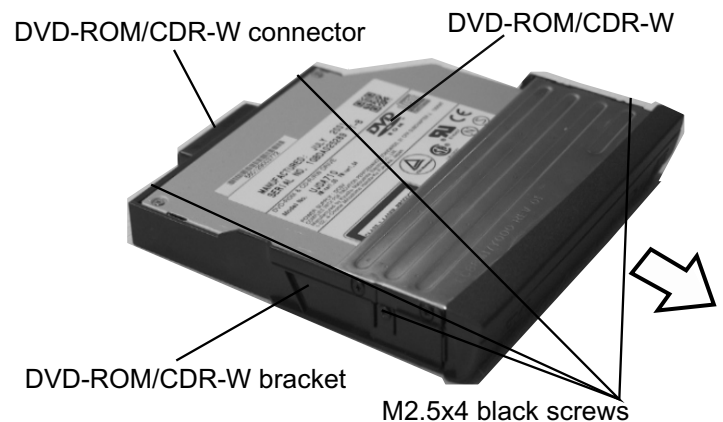
M2.5x4 black screws

1. Remove **four M2.5x4 black screws** securing the DVD-ROM/CDR-W to the bracket.
2. Slide the **DVD-ROM/CDR-W** out of the bracket.
3. Disconnect the **DVD-ROM/CDR-W** connector from the drive.

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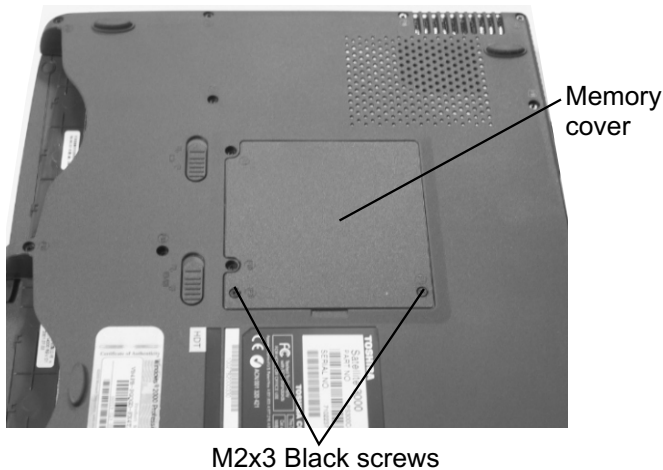
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HDD REMOVAL
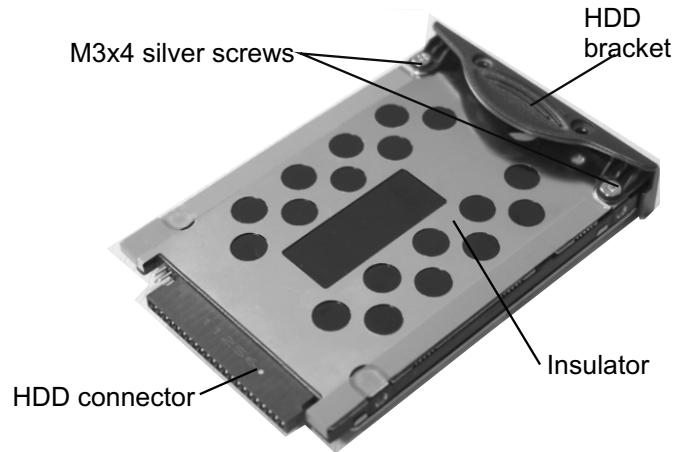
HDD assy

M2.5x3 black screws

1. Turn the computer upside down.
2. Remove **two M2.5x3 black screws** securing **HDD assembly**.
3. Slide the **HDD assembly** in the direction of the arrow to disconnect from the system board.
4. Lift the HDD assembly out of the HDD bay.

HDD REMOVAL

M3x4 silver screws

HDD bracket

Insulator

HDD connector

5. Remove **two M3x4 silver screws** securing the **HDD bracket** to the drive and lift off the bracket.
6. Peel off the HDD insulator.

MEMORY MODULE REMOVAL

Memory cover

M2x3 Black screws

1. Turn the computer upside down.
2. Remove **two M2x3 black screws** and remove the **memory cover**.

Memory clips
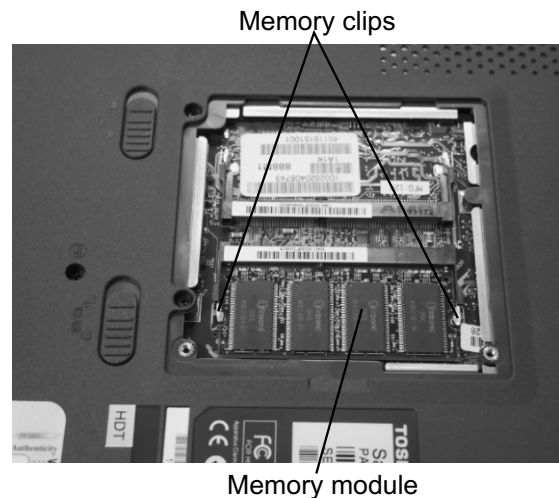
Memory module

3. Spread the **memory clips** securing the memory module and pull the **memory module** out of the connector on a 45 degree angle.

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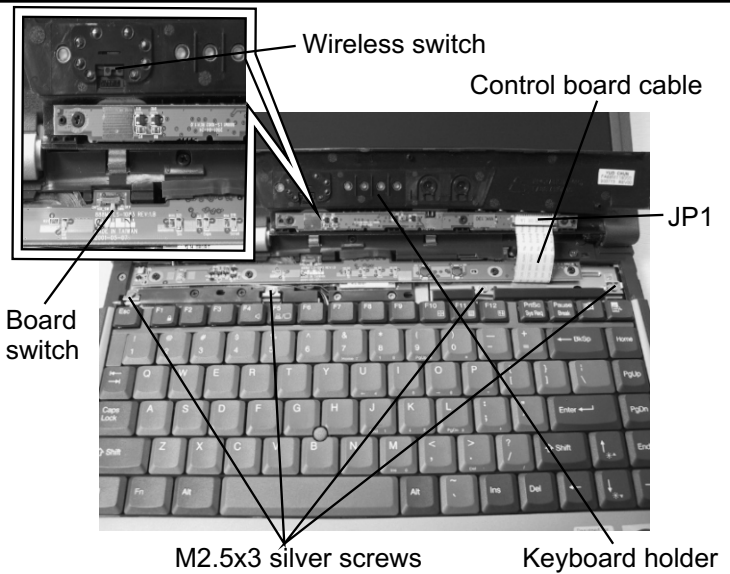## Tough Enough for Today's World

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KEYBOARD REMOVAL

Display panel

Keyboard holder

Case separator

1. Open the **display panel**.
2. Using the **case separator**, unlatch the **keyboard holder** at the top of the keyboard.

Wireless switch

Control board cable

JP1

Board switch

M2.5x3 silver screws

Keyboard holder

3. Disconnect the **control switch/LED board cable** from the keyboard holder.
4. Remove **four M2.5x3 silver screws** securing the keyboard clip.
Note: When reinstalling the keyboard holder, make sure that the wireless switch is latch properly to the control switch board switch.

KEYBOARD REMOVAL

Keyboard

IPS switch cable

Keyboard cable   JP5   JP4
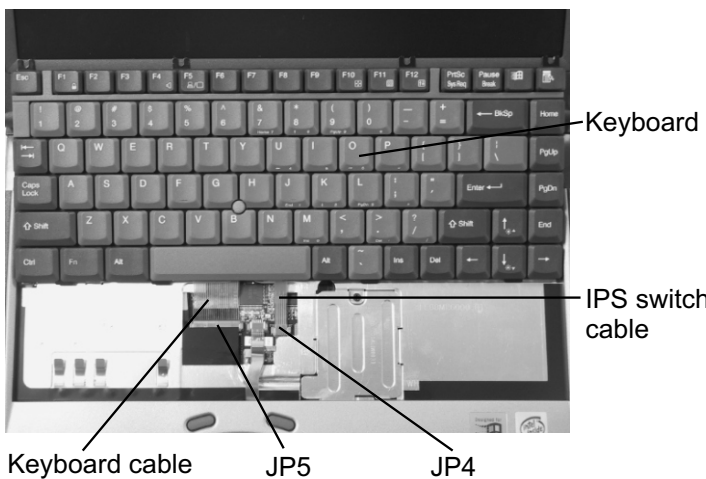
4. Lift out the **keyboard** and set it as shown above.
5 Disconnect the **keyboard cable** from **JP5** and **IPS switch cable** from **JP4** on the video board and lift out the keyboard.

CONTROL BOARD REMOVAL
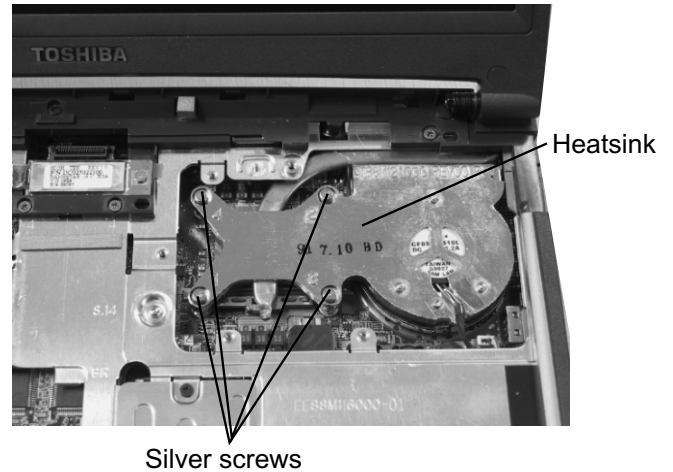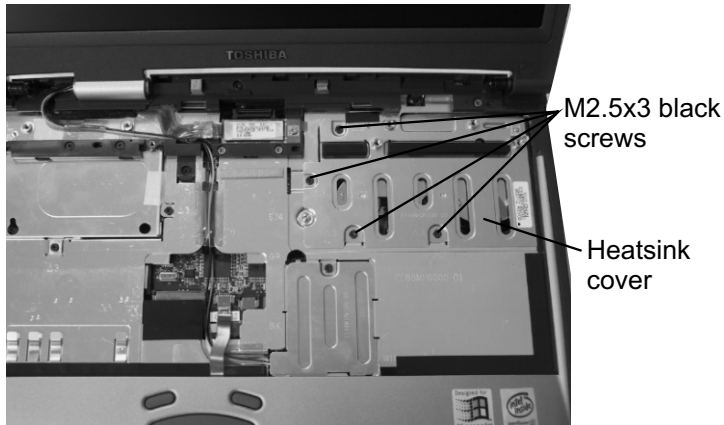
Control switch board
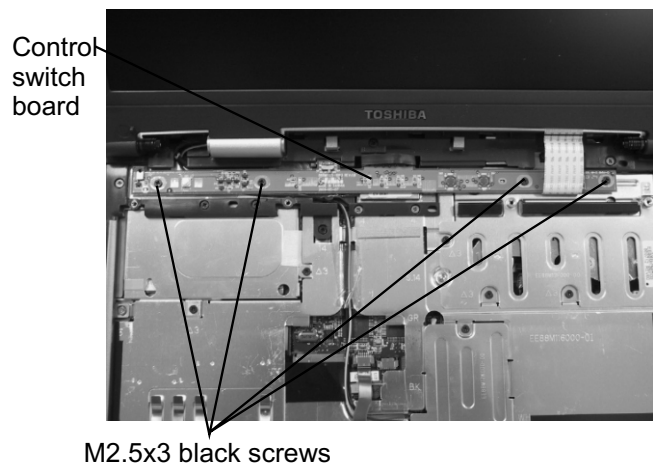
M2.5x3 black screws

1. Remove **four M2.5x3 black screws** securing the control switch board.
2. Disconnect the **control switch/LED board** from JP4 on the main PCB.

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COOLING MODULE REMOVAL

M2.5x3 black screws

Heatsink cover

Heatsink

Silver screws
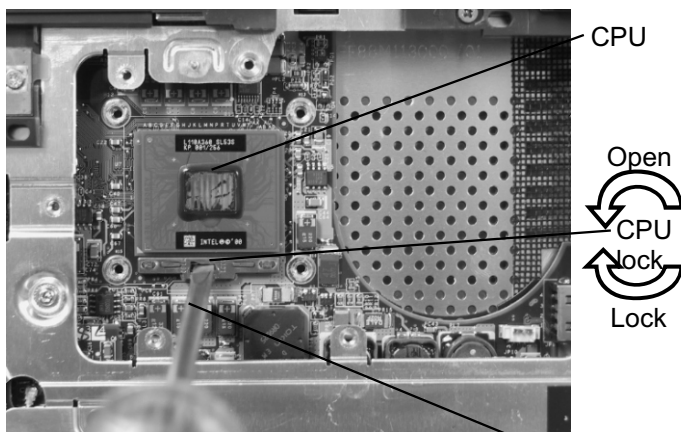
1. Remove **four M2.5x3 brass screws** securing the heatsink cover.

2. Remove **four silver** screws securing the heatsink.
3. Lift out the **heatsink**.

CPU REMOVAL

CPU

Open

CPU lock

Lock

Flat head screwdriver
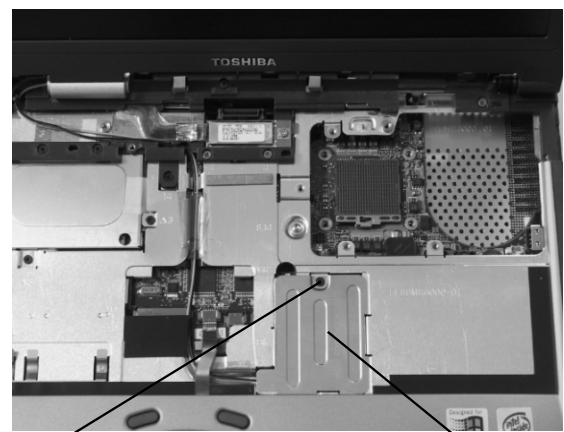
1. Using a 5mm flat head screw driver, insert the screwdriver into the CPU lock slot and turn it counterclockwise.
2. Lift out the **CPU**.

NOTE: In order to properly lock the CPU, a 5mm flat head screw driver must be used.
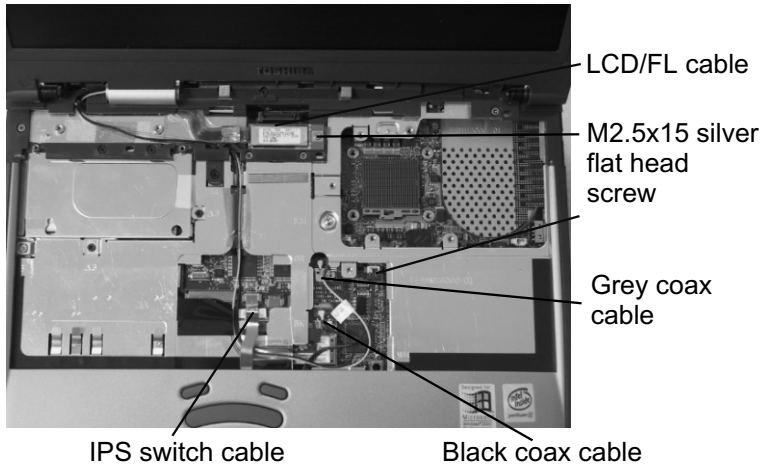
TOP COVER REMOVAL

M2.5x3 black screw

Cable cover

1. Remove **one M2.5x3 flat head screw** securing the cable cover.

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TOP COVER REMOVAL

LCD/FL cable

M2.5x15 silver
flat head
screw

Grey coax
cable

IPS switch cable   Black coax cable

2. Turn the computer right side up and open the display panel.
3. Disconnect the following four cables:
   - **Black and Gray coax cables**
   - **IPS switch cable** from **PJ1**
4. Remove **one M2.5x15 silver flat head screws** securing the LCD/FL cable and disconnect the **LCD/FL cable**.

M2.5x6 black screws

5. Remove **six M2.5x6 black screws** (four at the back and two at the bottom cover) securing the display assembly.
6. Lift out the display assembly.

M2.5x6
black screw

M2.5x18
black
screws
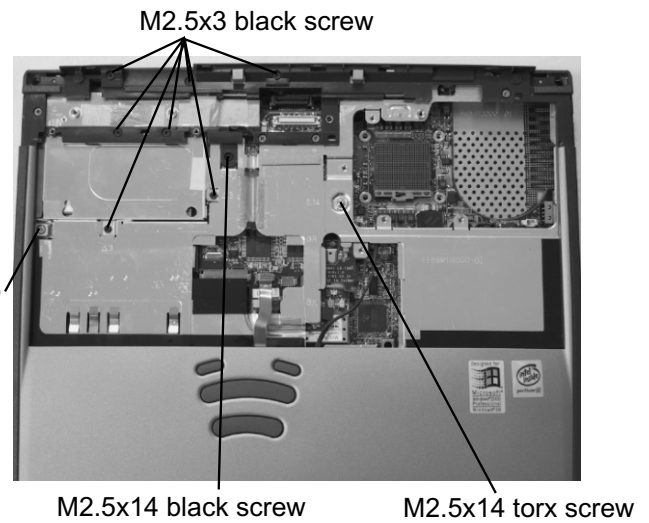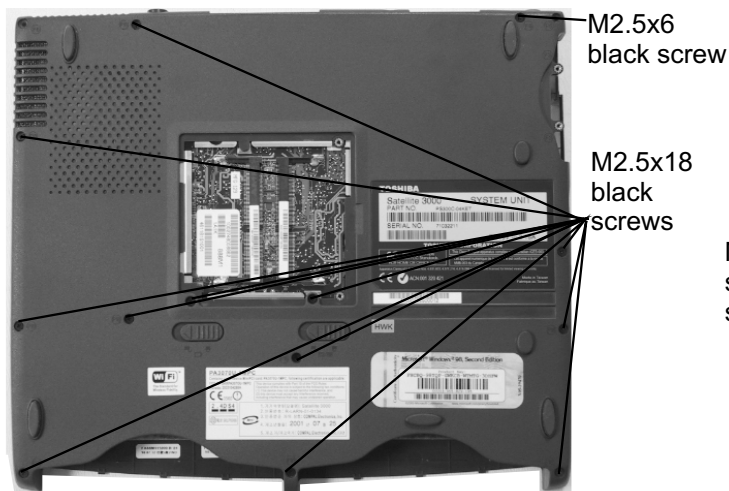
7 Remove the following thirteen screws from the bottom cover:
   - M2.5x6 black screw
   - M2.5x18 black screws

M2.5x3 black screw

M2.5x5
silver
screws

M2.5x14 black screw   M2.5x14 torx screw

8. Remove the following 9 screws from the top cover:
   - **Six M2.5x3 black screws**
   - **One M2.5x14 black screw**
   - **One M2.5x14 Torx screw(Size 8)**
   - **One M2.5x5 silver screws**
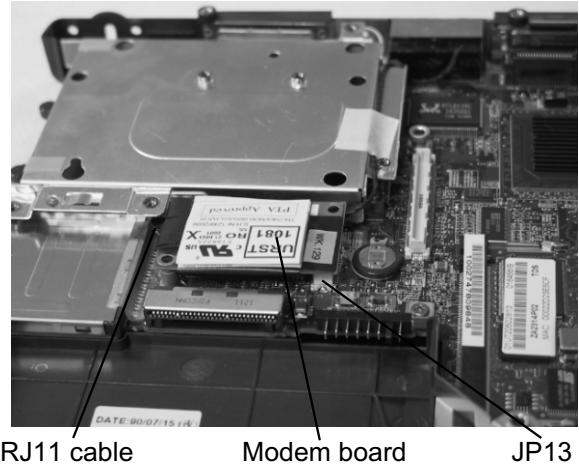9. Unlatch the top cover from the bottom cover.

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VIDEO BOARD REMOVAL

JP8 — Video board
JP11 — System board
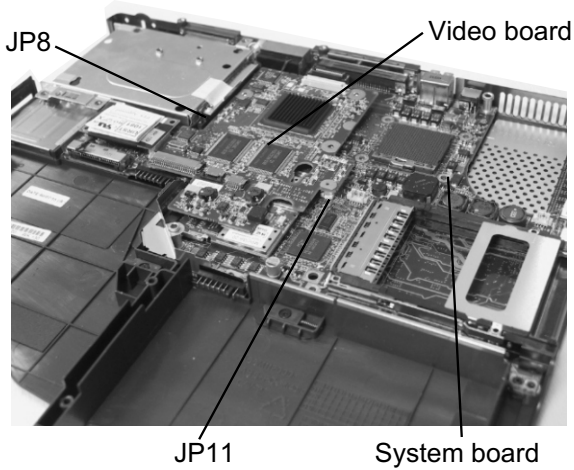
1. Disconnect the video board from JP8 and JP11 on the system board.

MODEM BOARD REMOVAL

RJ11 cable — Modem board — JP13

1. Disconnect the **modem board** from **JP13** on the system board.
2. Disconnect the **RJ11 cable** from the modem board.

WIRELESS LAN CARD REMOVAL

Mini PCI Clips
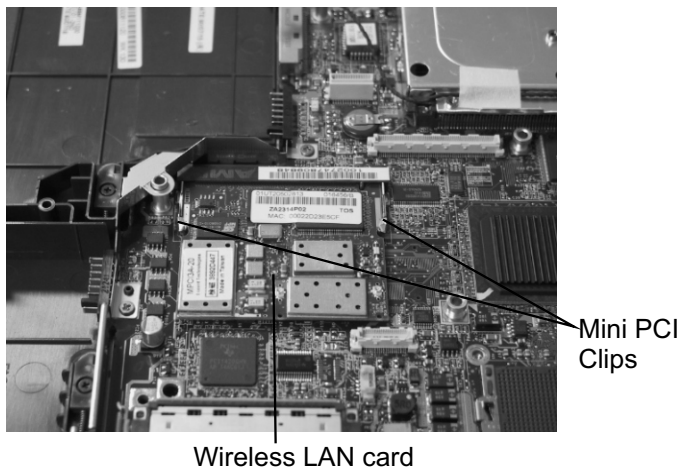
Wireless LAN card

1. Push the **Mini PCI slot clips** outward and pull the **Wireless LAN card** out of the connector on a 30 degree angle.

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SYSTEM BOARD REMOVAL

Stud screws

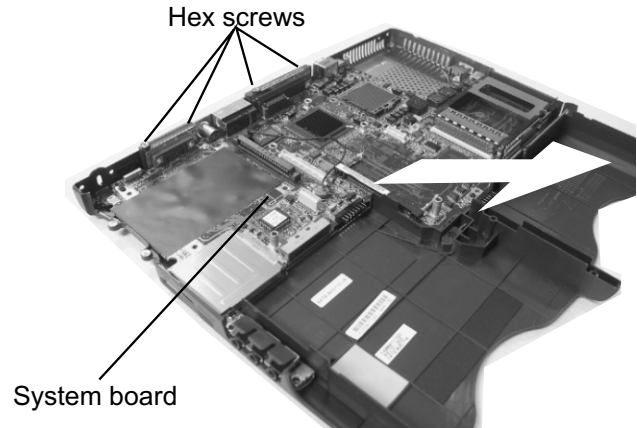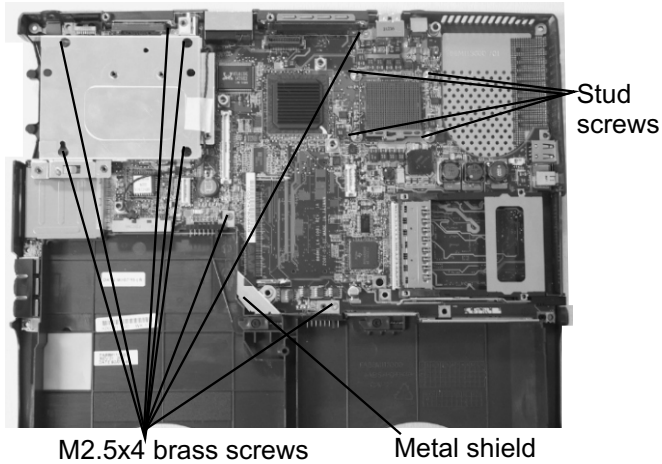M2.5x4 brass screws   Metal shield

Hex screws

System board

1. Remove the following **eleven screws** securing the system board:
   - **2 M2.5x4 brass screws securing the metal shield**
   - **5 M2.5x4 brass screws securing the HDD shield**
   - **1 M2.5x4 brass screw on the system board**
   - **4 stud screws from the CPU socket**

2. Remove **four hex screws** at the back of the computer securing the system board.
3. Lift out the **system board**.

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## 14" DISPLAY MASK REMOVAL

Latch

Display mask

LCD
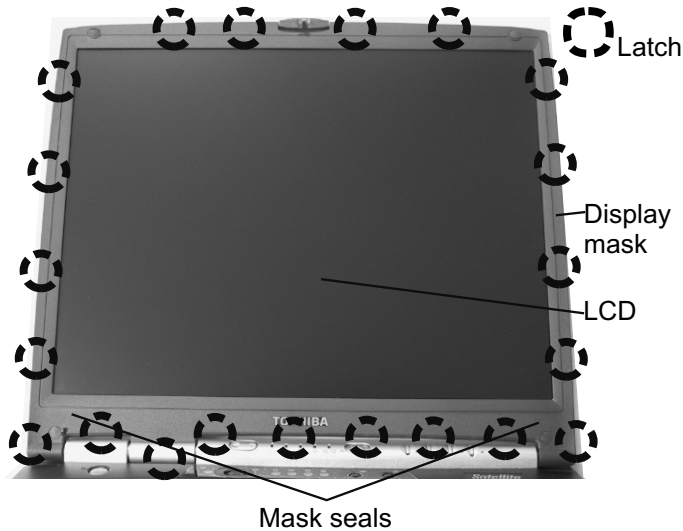
Mask seals

1. Remove **two rubber seals** at the top corners of the display assembly and **two mask seals** at the bottom corners of the display assembly.
2. Remove **four M2.5x5 silver screws** securing the display mask.
3. There are **21 latches** securing the **display mask**. Carefully insert your fingers between the **display mask** and the **LCD module** and pry open the latches starting from the **bottom six latches**, to the **five latches on the right and left sides**, ending with the **top six latches**.

FL INVERTER AND 14" LCD REMOVAL

LCD module

LCD/FL cable

Tape

FL inverter board   M2x4 brass screws   FL cable
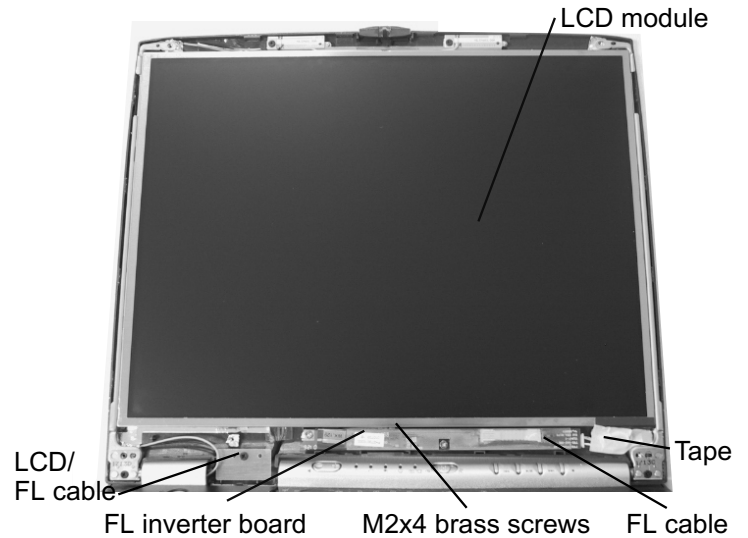
1. Peel off the **tape** securing the FL cable.
2. Remove **two M2.5x5 silver screw** securing FL inverter board.
3. Carefully lift up the **FL inverter board** and disconnect the **LCD/FL cable** from **CN1** and the **FL cable** from **CN2**.
4. Remove **two 2.5x6 black screws** securing the LCD top cover.

M2x3 silver screws
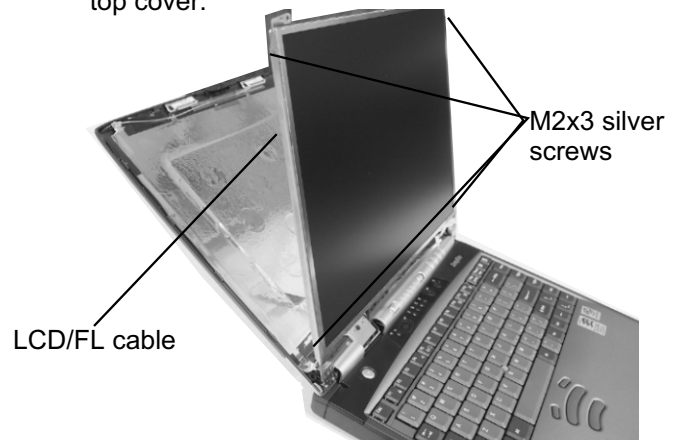
LCD/FL cable

5. Lay the top cover as shown above.
6. Peel off two capton tapes securing the LCD/FL cable and disconnect the cable.
7. Remove **four M2x3 silver screws** securing the LCD module to the LCD brackets and lift out the module.

NOTE: When you open and close the display assembly with the top cover off, hold it by the hinges to prevent the brackets from bending.

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