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Tools Required for Proper Disassembly and Reassembly:

1. Phillips Screwdriver (Size 1)
2. 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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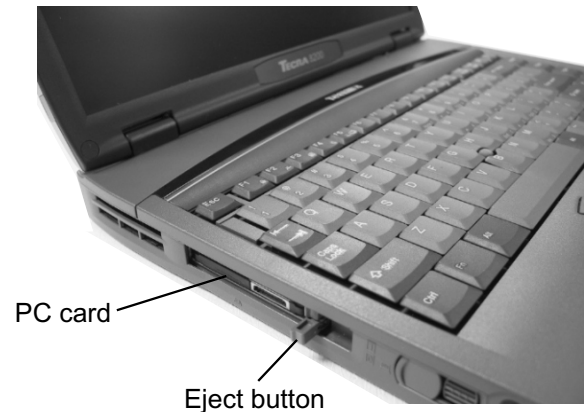
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BATTERY PACK REMOVAL

Battery
Pack
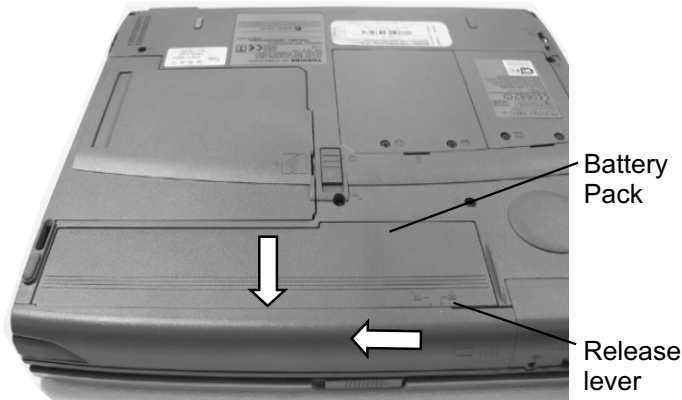
Release
lever

1. Turn the computer upside down as shown.
2. Slide the **battery release lever** in the direction of the arrow.
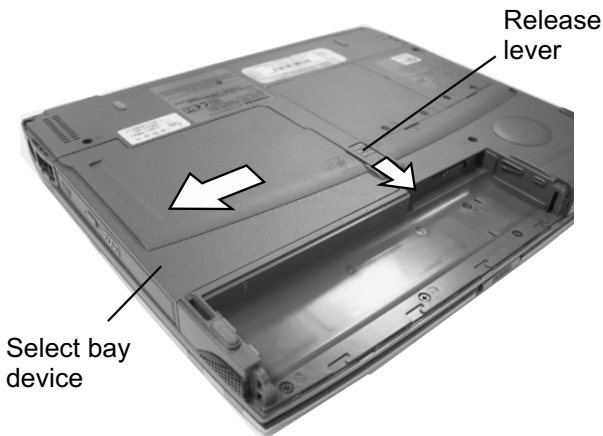3. Slide the battery assembly forward and out of the battery bay.

OPTIONAL PC CARD REMOVAL

PC card

Eject button

1. Pull out the **eject button** of the **PC card** to be removed.
2. Press firmly to eject the **PC card**.
3. Grasp the **PC card** and remove it.

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

SELECT BAY REMOVAL

Release
lever

Select bay
device

1. Turn the computer upside down.
2. Slide the **release lever** in the direction of the arrow.
3. Pull out the **select bay device** in the direction of the arrow.
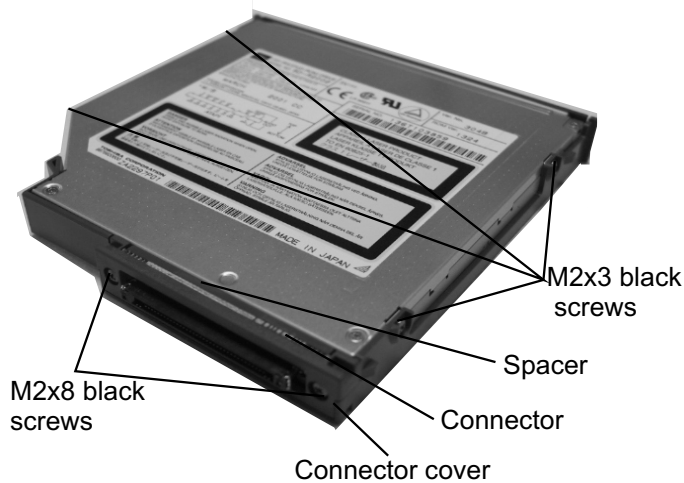
DVD-ROM/CD-RW DRIVE DISASSEMBLY

Selectable bay cover   CD-ROM
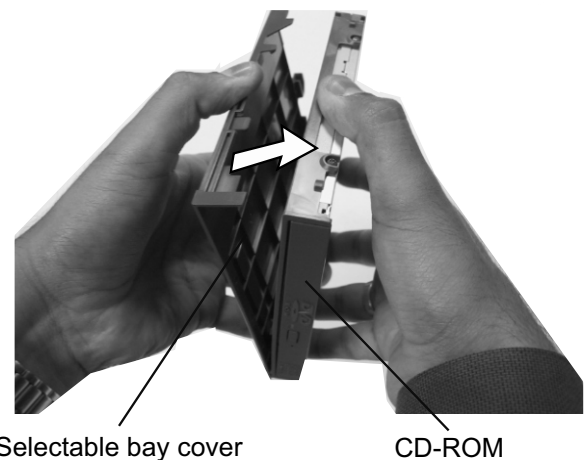
1. Remove the **selectable bay cover**.

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DVD-ROM/CD-RW DRIVE DISASSEMBLY

M2x3 black screws

Spacer

Connector

M2x8 black screws
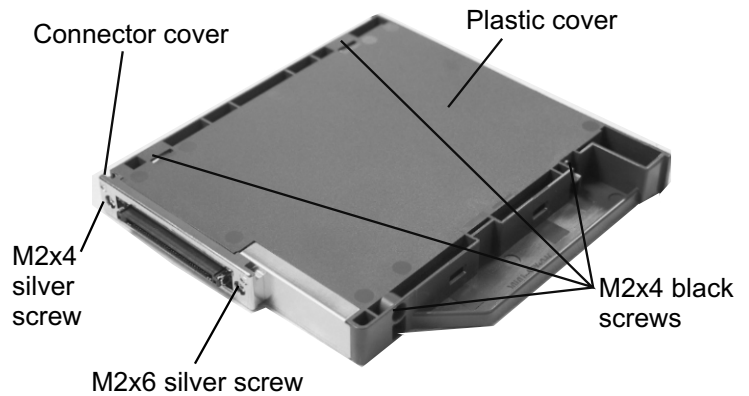
Connector cover

2. Remove **four M2x4 black screws**
3. Remove the **frame**.
4. Remove **two M2x8 silver screws**.
5. Remove the **spacer**, **connector**, and the **connector cover** from the CD/DVD ROM drive.

FDD DISASSEMBLY

Connector cover

Plastic cover

M2x4 silver screw

M2x6 silver screw

M2x4 black screws

1. Remove the following six screws from the Select bay module:
   - **Four M2.5x4 black screws**
   - **One M2x6 silver screw**
   - **One M2x4 silver screw.**
2. Remove the connector cover and the plastic cover..

FDD DISASSEMBLY

FDD

FDD bracket

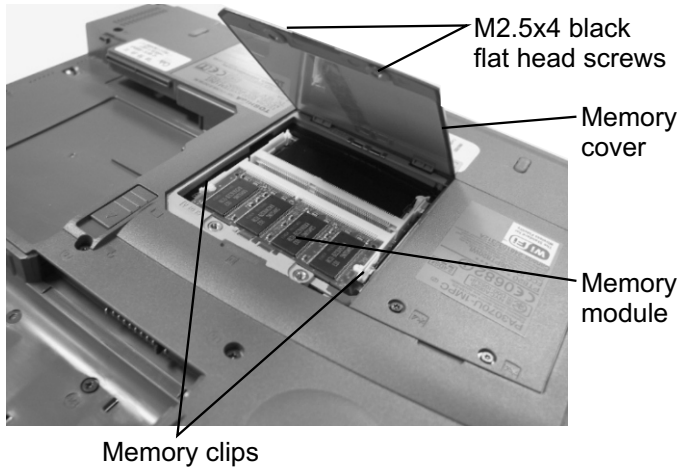3. Remove the **FDD** from the **FDD bracket**.

FDD

Connector Flexible cable
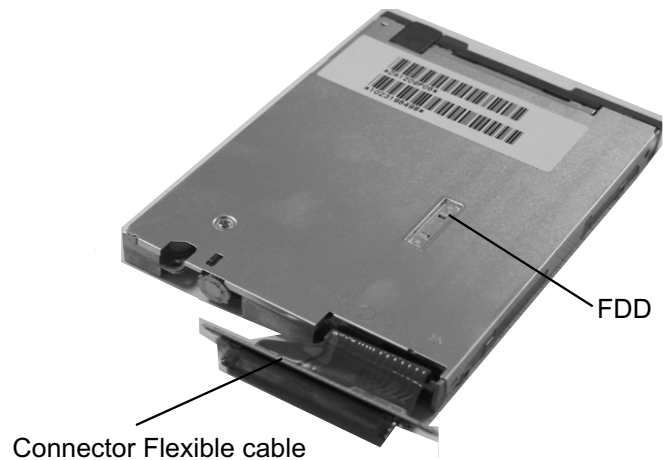
4. Disconnect the **connector flexible cable** from the FDD.

NOTE: The brackets, flexible cable and the screws are separate parts.Please DO NOT return them to **TOSHIBA**.

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MEMORY MODULE REMOVAL

M2.5x4 black flat head screws

Memory cover
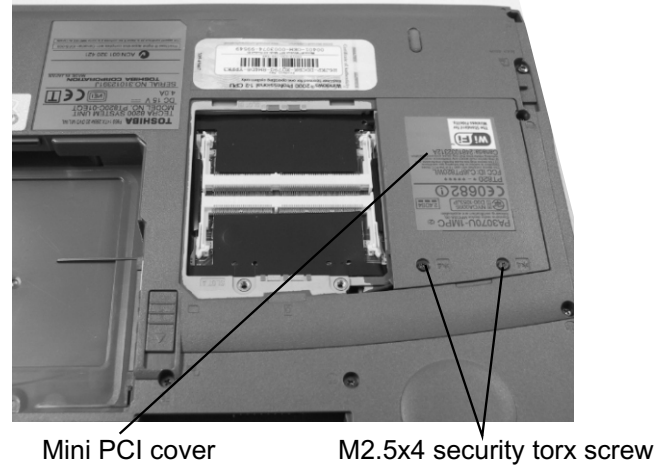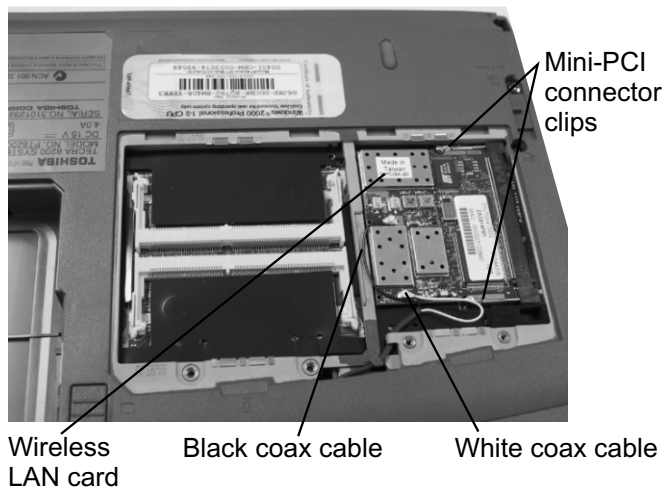
Memory module

Memory clips

1. Turn the computer upside down.
2. Remove **two M2.5x4 black flat head screws** and remove the **memory cover**.
3. Spread the **memory clips** outward and pull the **memory module** out of the connector on a 45 degree angle.

Mini-PCI connector clips

Wireless LAN card   Black coax cable   White coax cable

3. Disconnect the **Black and White coax** from PJ12 and PJ13.
4. Spread the **Mini-PCI connector clips** and pull the **Wireless LAN card** out of the connector about 45 degree angle.

WIRELESS LAN REMOVAL

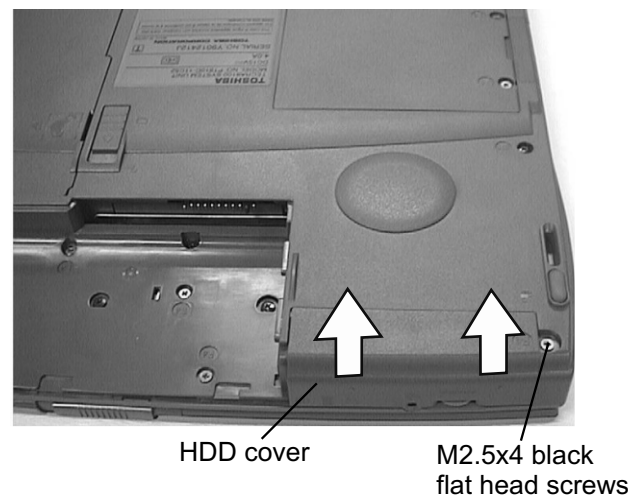Mini PCI cover   M2.5x4 security torx screw

1. Turn the computer upside down.
2. Remove **two M2.5x4 security torx screws** securing the Wireless LAN cover and lift out the cover.

HDD REMOVAL

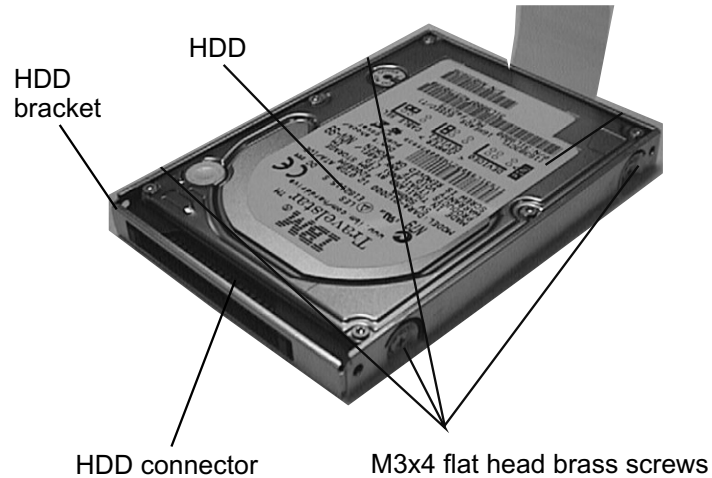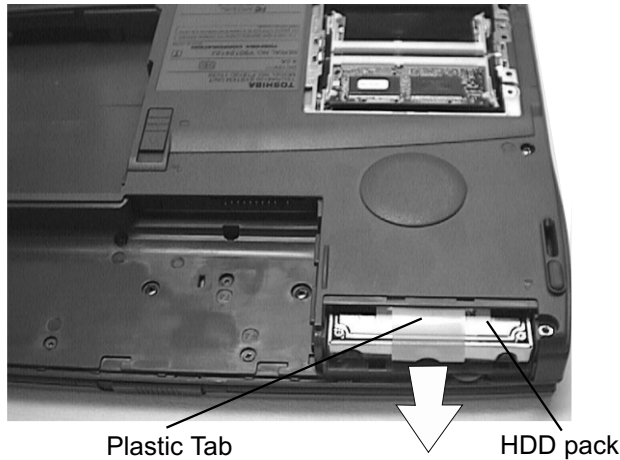HDD cover   M2.5x4 black flat head screws

1. Turn the computer upside down.
2. Remove **one M2.5x4 black flat head screws** securing **HDD cover**
3. Push up the raised nubs to remove the HDD cover.

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HDD REMOVAL

Plastic Tab   HDD pack

4. Unfold the **plastic tab** and pull to remove the HDD from the bay.

HDD
HDD bracket
HDD connector   M3x4 flat head brass screws

5. Remove **four M3x4 flat head brass screws** securing the HDD to the bracket and lift the drive out of the **bracket**.
6. Unplug the **HDD connector** from the drive.

KEYBOARD REMOVAL

Latch

Keyboard

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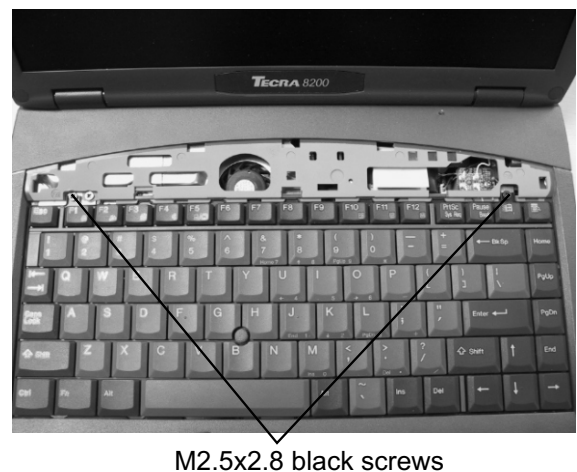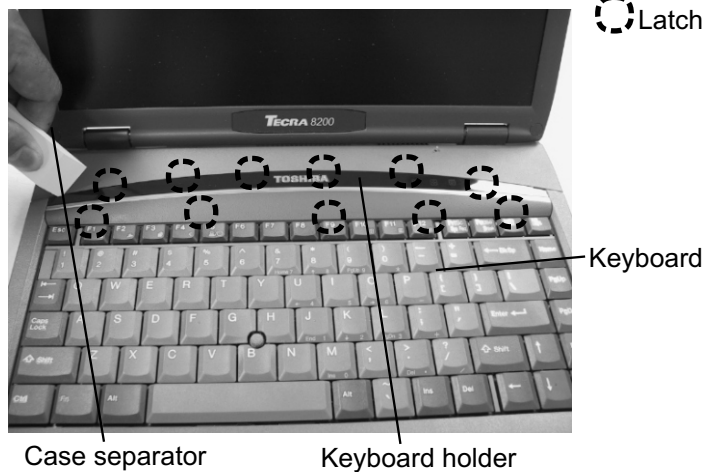
1. Open the display panel.
2. Using the **case separator,** unlatch the **keyboard holder** at the top of the **keyboard**.

M2.5x2.8 black screws

3. Remove **two M2.5x2.8 black screws** securing the keyboard.
4. Lift out the **keyboard** and set it as shown above.
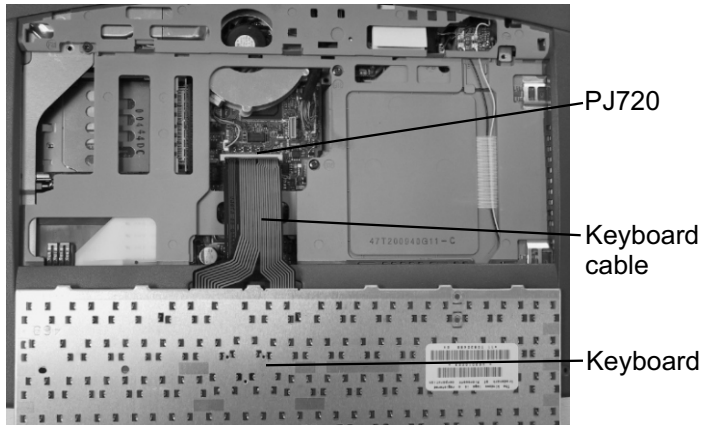5. Disconnect the **keyboard cable** from **PJ580** on the system board.

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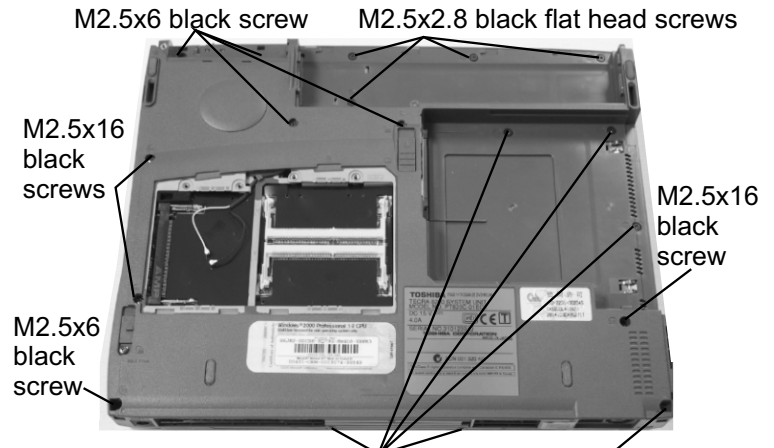
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KEYBOARD REMOVAL

PJ720

Keyboard cable

Keyboard

3. Lift out the **keyboard** and set it on the palmrest.
4. Disconnect the **keyboard cable** from **PJ720** and lift out the **keyboard**.

TOP COVER REMOVAL

M2.5x6 black screw   M2.5x2.8 black flat head screws

M2.5x16 black screws

M2.5x16 black screw

M2.5x6 black screw

M2.5x4 black flat head screws   M2.5x6 black screws

1. Turn the computer upside down and remove the following screws:
   - **-4 M2.5x2.8 black flat head screws**
   - **-5 M2.5x4 black flat head screws**
   - -6 **M2.5x6 black screws**
   - -3 **M2.5x16 black screws**

TOP COVER REMOVAL

Black/white coax cable

M2.5x16 black screws

PJ101   LCD/FL inverter cable
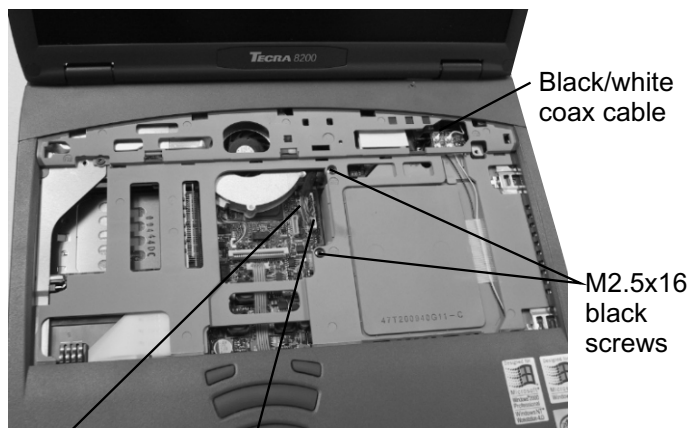
2. Turn the computer right side up and open the display.
3. Disconnect the **display cable** from **PJ101** on the system and the **black/white coax cable** from **PJ93/92** on the coax connector board.
4. Remove **two M2.5x16 black screws** from the keyboard area.
5. Lift out the **top cover assembly**.

MEMBRANE SWITCH REMOVAL

F J730   Membrane switch cable   Membrane switch
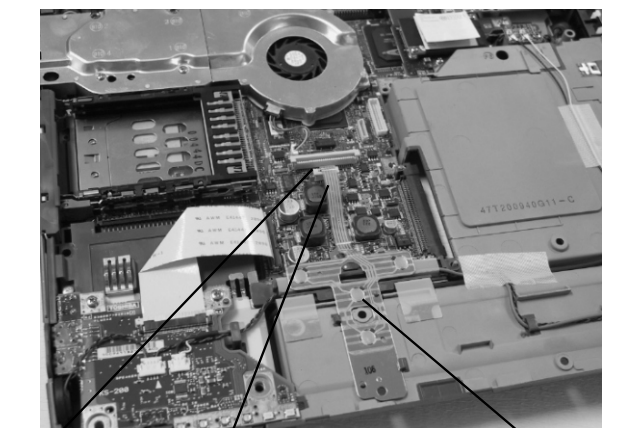
1. Disconnect the **membrane switch cable** from **PJ730** on the sound board.
2. Lift out the membrane switch.

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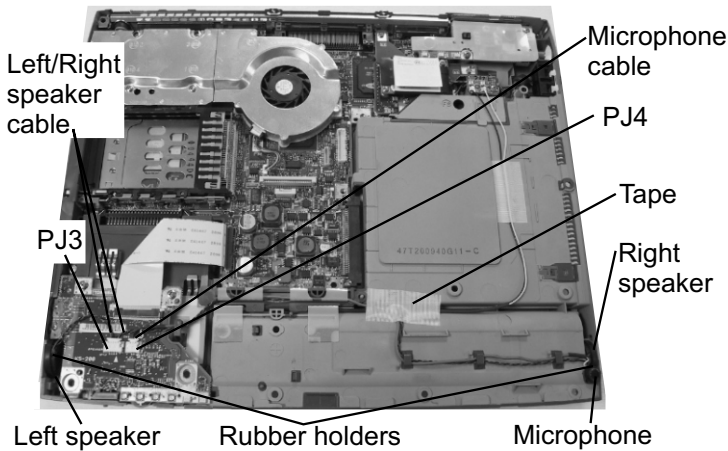## Tough Enough for Today's World.

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SPEAKERS & MICROPHONE REMOVAL

Left/Right speaker cable

Microphone cable

PJ4

Tape

PJ3

Right speaker

Left speaker   Rubber holders   Microphone

1. Lift the strip of **glass tape** securing the microphone and speaker cables.
2. Disconnect the **speaker cable** from **PJ961** and the **microphone cable** from **PJ964** on the sound board.
3. Remove the cables and lift out the speaker assemblies.

SOUND BOARD REMOVAL

Sound cable

PJ1

PJ407

M2.5x4 brass screws
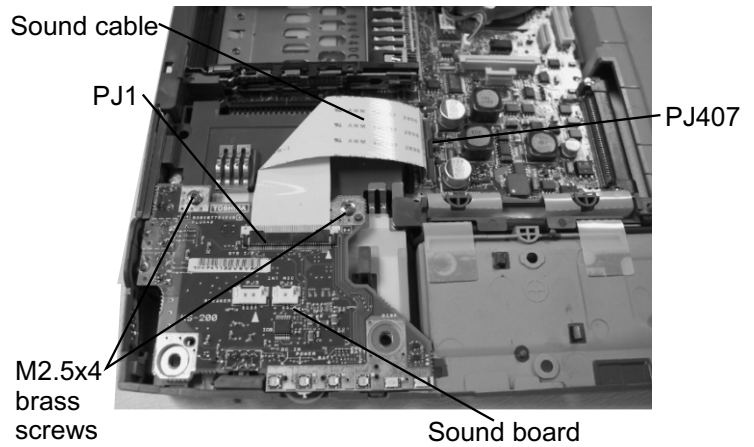
Sound board

1. Disconnect the **sound cable** from **PJ407** on the system board.
2. Remove **two M2.5x4 screws** securing the sound board.
3. Lift out the **sound board assembly**.
4. Disconnect the **sound cable** from **PJ1** on the sound board.

COOLING MODULE REMOVAL

Cooling module

Fan cable

PJ202
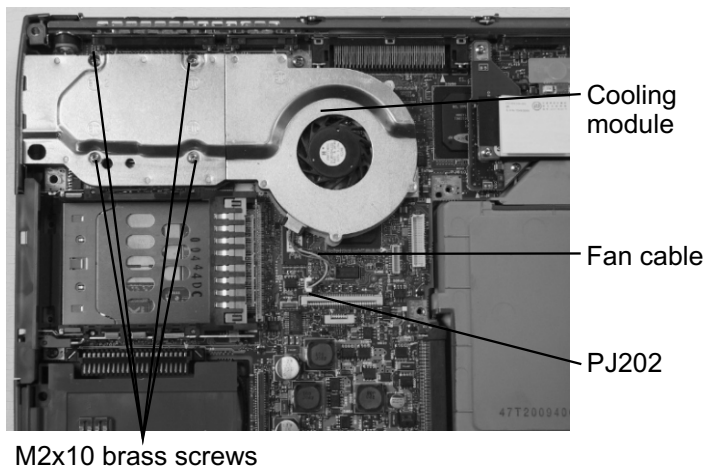
M2x10 brass screws

1. Disconnect the **fan cable** from **PJ202** on the system board.
2. Remove **four M2x10 brass screws** securing the cooling module.
3. Lift out the **cooling module**.
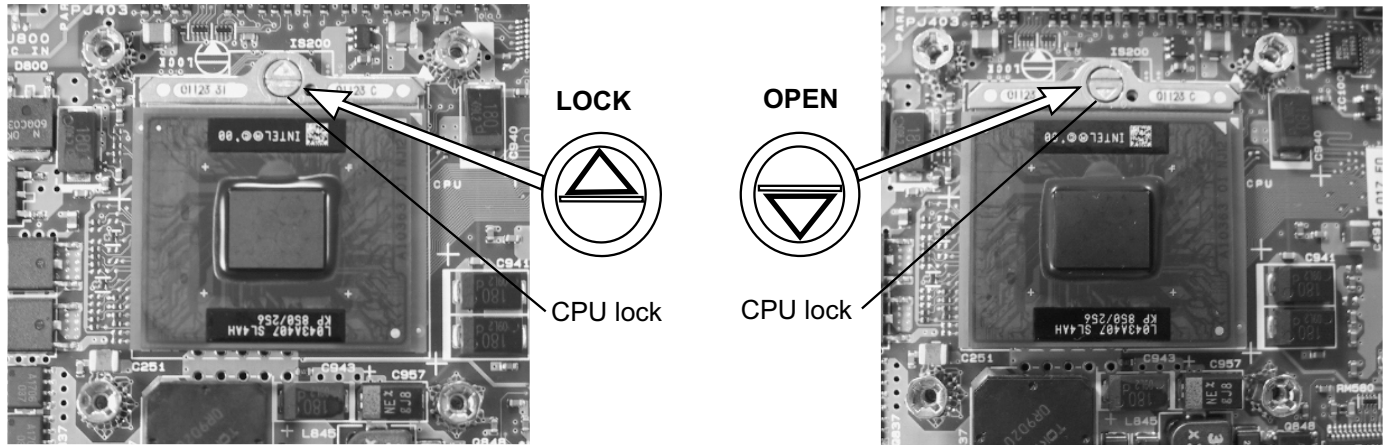
CPU REMOVAL

CPU lock
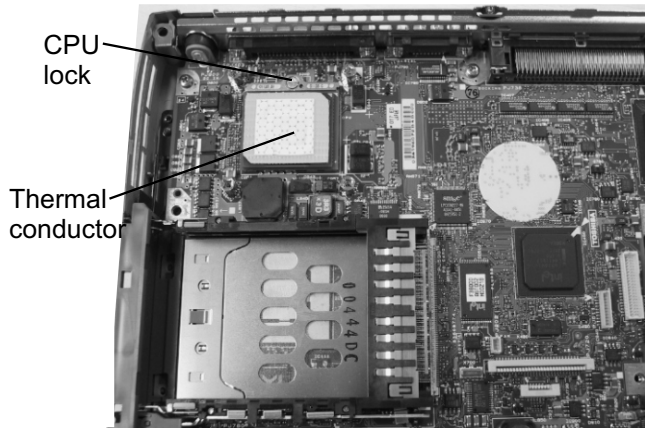
Thermal conductor

1. Peel off the **thermal conductor**.

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CPU REMOVAL

LOCK

OPEN

CPU lock
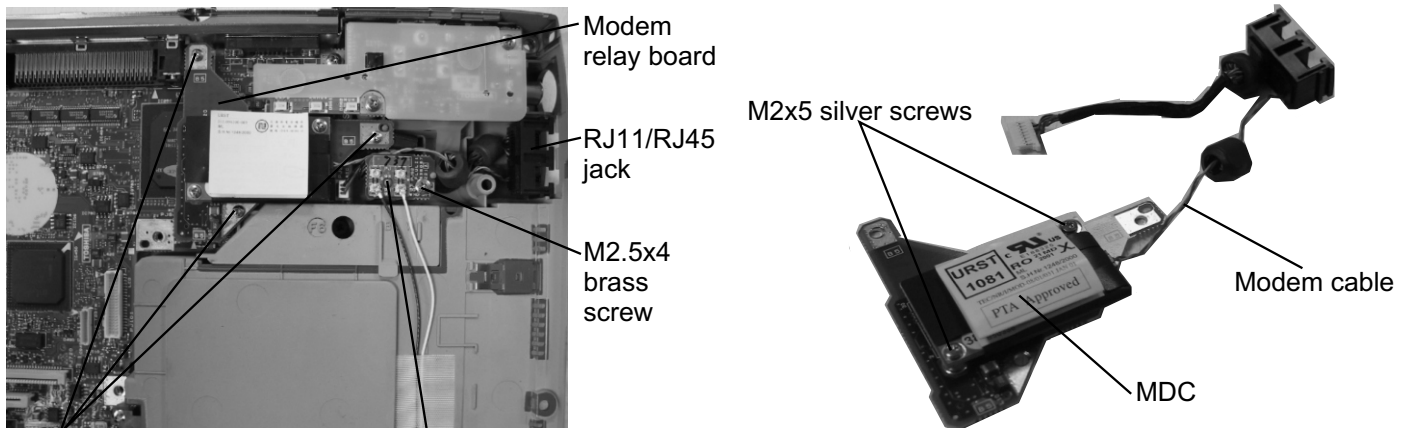
CPU lock

1. Rotate the **CPU lock** 180 degrees clockwise, to the **OPEN** position, and lift the CPU out of the socket.
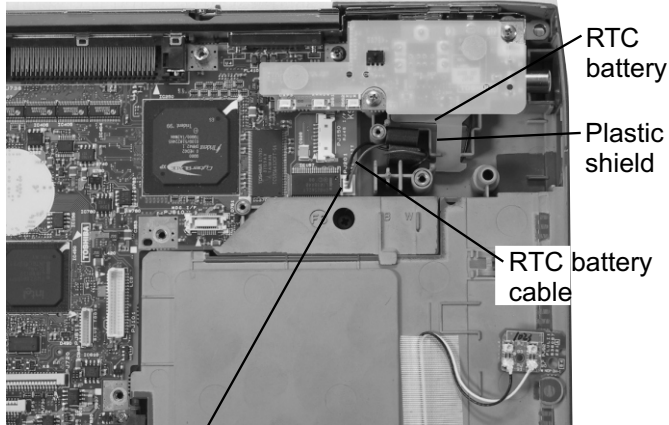
MODEM BOARD REMOVAL

Modem relay board

RJ11/RJ45 jack

M2.5x4 brass screw

M2x4 silver screws

Wireless LAN antenna relay board

M2x5 silver screws

Modem cable

MDC

1. Remove **one M2.5x4 brass screw** securing the **Wireless LAN antenna relay board** and **three M2x4 silver screws** securing the modem relay board.
2. Lift up the left side of the modem relay board to disconnect from PJ610 on the system board and remove the **modem relay board and RJ11/RJ45** jack upward.
3. Disconnect the **LAN cable** from **PJ150** on the system board.

4. Remove **two M2x5 silver screws** securing the MDC (modem daughter card).
5. Lift up the back of the **MDC** to disconnect it from the modem relay board.
6. Disconnect the **modem cable** from the MDC.

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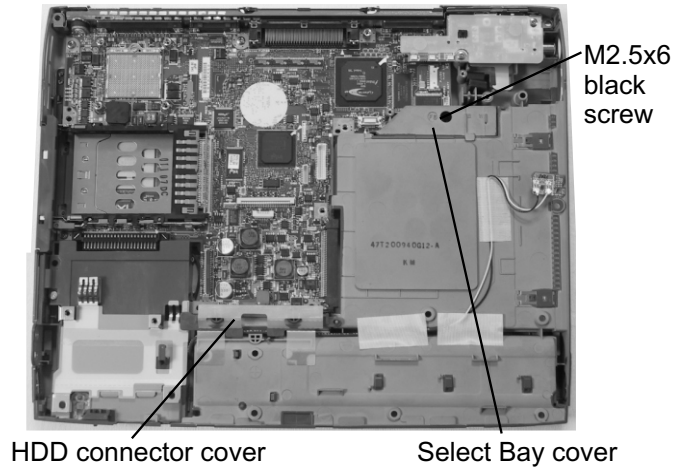### 8200 Series

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RTC BATTERY REMOVAL

RTC battery

Plastic shield

RTC battery cable

PJ201

1. Disconnect the **RTC battery cable** from **PJ201** on the system board.
2. Unlatch the **plastic shield** and lift out the RTC battery.

SYSTEM BOARD REMOVAL

M2.5x6 black screw

HDD connector cover   Select Bay cover

1. Remove **one M2.5x6 black screw** securing the select Bay cover.
2. Remove the **HDD connector cover**.

M2.5x4 brass screws

System board   M2.5x4 Hex screw
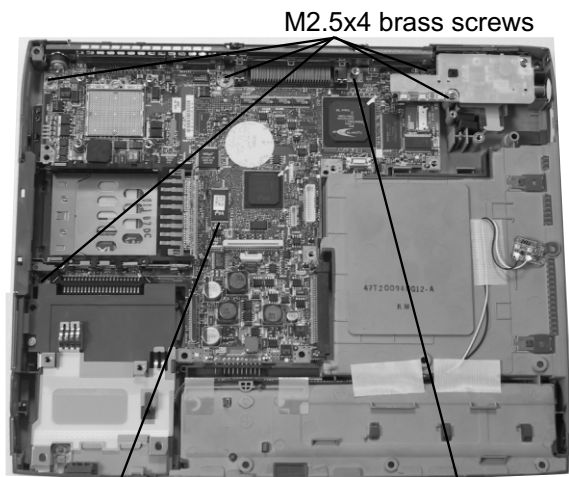
3. Remove **four M2.5x4 brass screws** and **one M2.5x4 hexagonal screw** securing the system board.
4. Lift out the **system board**.

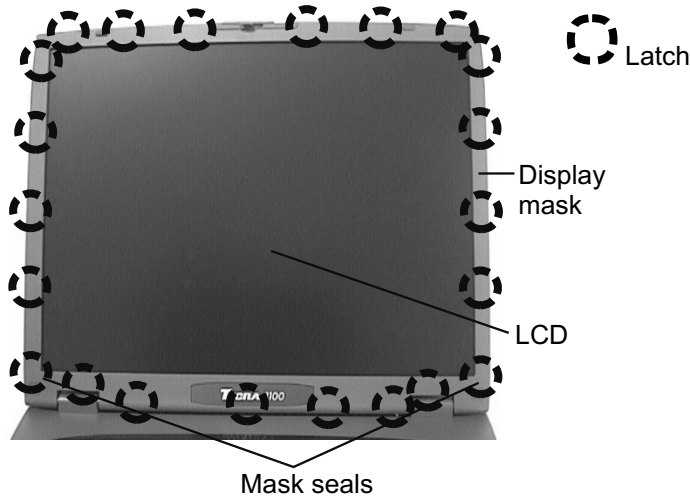Eject buttons   PC card slot cover
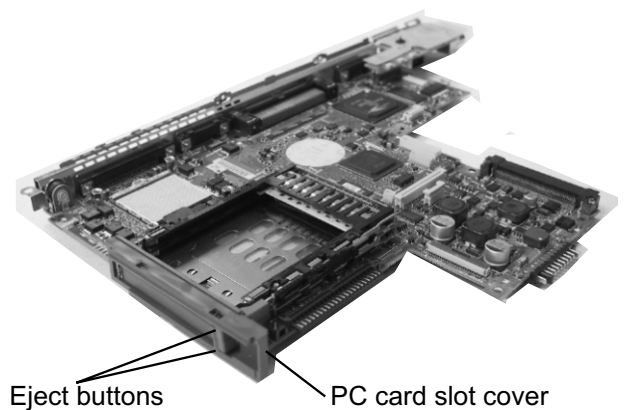
1. Unfold the PC card eject buttons and remove the PC card slot cover.

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14.1" DISPLAY MASK REMOVAL

Latch
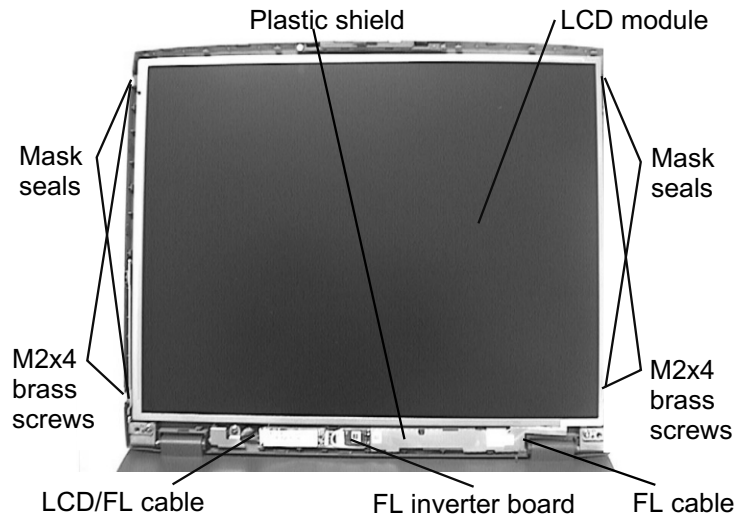
Display mask

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 **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 seven latches**, to the **five latches on the right and left sides**, ending with the **six toplatches**.

FL INVERTER AND 14.1" LCD REMOVAL

Plastic shield   LCD module

Mask seals

Mask seals

M2x4 brass screws

M2x4 brass screws

LCD/FL cable   FL inverter board   FL cable

1. Lift the **plastic shield**.
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.
4. Remove **four M2X4 brass 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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