TecraTM

S1 Series

GENERAL INFORMATION

Tools Required for Proper
Disassembly and Reassembly:

- 1. Phillips Screwdriver (Size 0&1)
- 2. Flat head Screwdriver
- 3. Case Separator
- 4. ESD Wrist Strap
- 5. ESD mats
- 6. 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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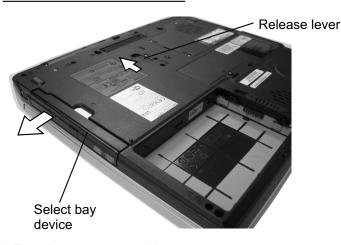
BATTERY PACK REMOVAL



- 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**.

Note: The battery release lever will only unlatch if the unit is upside down.

SELECT BAY REMOVAL



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

NOTE: If the lock screw is in locked position, remove it and attach it to the other hole for temporary retention of the screw.

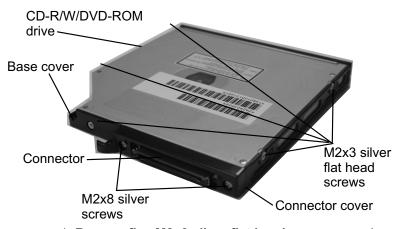
OPTIONAL PC CARD REMOVAL



- Press the eject button for the PC card you want to remove.
- 2. Press the extended **eject button** to pop the PC Card out.
- 3. Grasp the PC card and remove it.

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

CD-R/W/DVD-ROM DRIVE DISASSEMBLY



- 1. Remove five M2x3 silver flat head screws securing the base cover and lift out the cover.
- Remove two M2x8 silver screws securing the connector cover.
- 3. Remove the **connector cover** and the **connector** from the CD-R/W/DVD-ROM drive.

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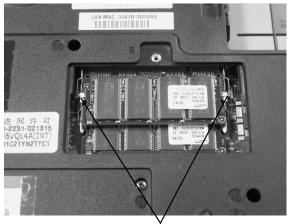
MEMORY MODULE REMOVAL



M2.5x2.8 silver flat head screws

Memory cover

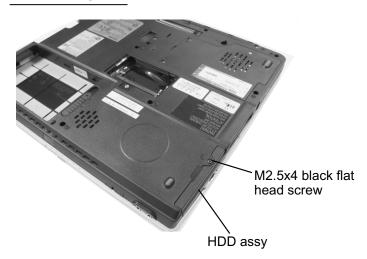
- 1. Turn the computer upside down.
- 2. Remove **one M2.5x4 black screw** securing the memory cover and remove the **memory cover**.



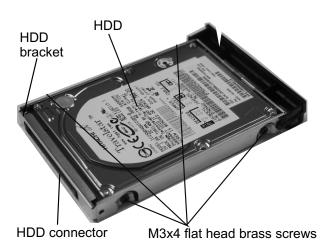
Memory clips

Spread the memory clips outward and pull the memory module out of the connector on a 30 degree angle.

HDD REMOVAL



- 1. Turn the computer upside down.
- 2. Remove **one M2.5x4 black flat head screw** securing HDD assembly.
- 3. Slide the HDD assembly out of the HDD bay..

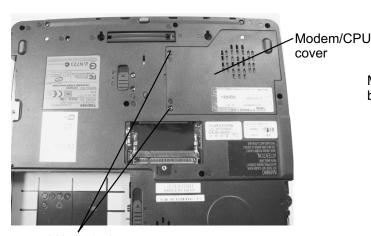


- Remove four M3x4 brass flat head screws securing the HDD to the bracket and lift the drive out of the bracket.
- 5. Unplug the **HDD connector** from the drive.

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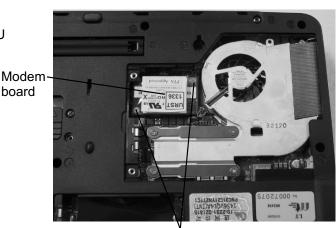
board

MODEM BOARD REMOVAL



M2x4 black screws

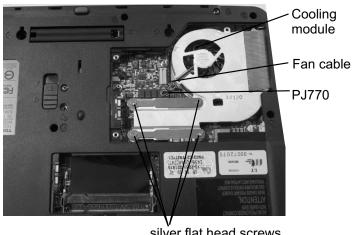
- 1. Turn the computer upside down.
- 2. Remove two M2.5x4 black screws securing the modem cover.
- 3. Remove the modem cover.



M2x4 brass screws

- 4. Remove two M2x4 silver flat head screws securing the modem board.
- 5. Disconnect the modem board from PJ1006 on the system board.
- 6. Disconnect the modem cable from JP1 on the modem card.

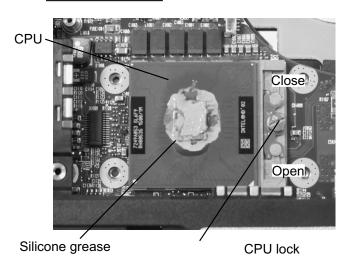
COOLING MODULE REMOVAL



silver flat head screws

- 1. Disconnect the fan cable from CN1007 on the system board.
- 2. Remove four silver flat head screws securing the cooling module.
- 3. Lift out the cooling module.

CPU REMOVA

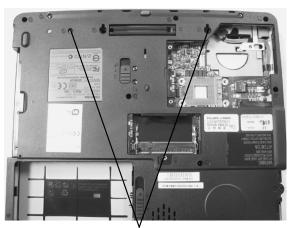


- 1. Insert a flat head screwdriver to the CPU lock and rotate it counter-clockwise to unlock the CPU.
- 2. Lift out the CPU.



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KEYBOARD REMOVAL



M2.5x12 black screws

- 1. Turn the computer upside down.
- Remove two M2.5x12 black screws securing the keyboard holder.



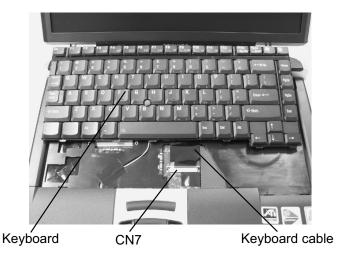
- 3. Turn the computer right side up and open the display panel.
- 4. Using the case separator, unlatch the keyboard holder at the top of the keyboard.

KEYBOARD REMOVAL



M2.5x2.8 black screws

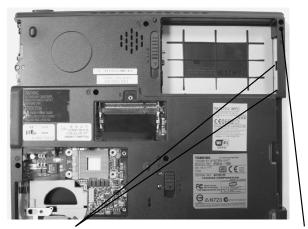
5. Remove **two M2.5x2.8 black screws** securing the keyboard.



- 6. Lift out the **keyboard** and set it as shown above.
- 7. Disconnect the **keyboard cable** from **CN7** on the system board.
- 8. Lift out the **keyboard**.

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PALM REST COVER REMOVAL

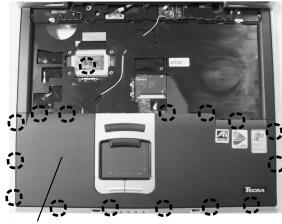


Lacthes

M2x4 black flat head screw

- 1. Turn the computer upside down.
- 2. Remove one M2x4 black flat head screw securing the palm rest cover.
- 3. Release the **two latches** securing the palm rest cover.

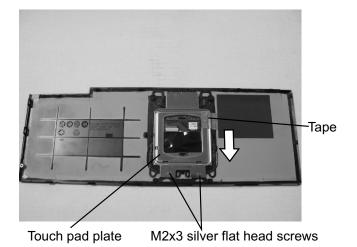




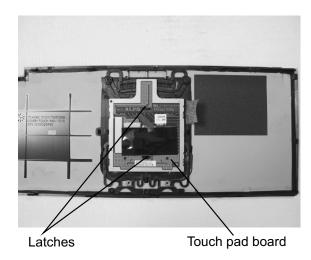
Palm rest cover

- 4. Turn the computer right side up and open the display panel.
- 5. Lift up the right side of the palm rest cover and slowly pull towards the right to release the remaining 13 latches securing the palm rest.

TOUCH PAD REMOVAL



- 1. Remove **two M2x3 sliver flat head screws** securing the touch pad plate
- 2. Peel off the tape securing the touch pad plate.
- 3. Slide the **touch pad plate** in the direction of the arrow and lift out the **touch pad plate**.



- 4. Release the **two latches** securing the touch pad board.
- 5. Lift out the touch pad board.



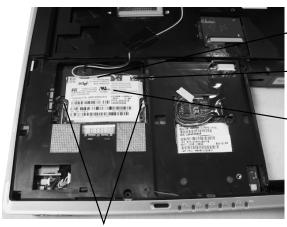
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White coax cable

Black coax cable

Wireless LAN card

WIRELESS LAN CARD REMOVAL



Mini-PCI connector clips

- Disconnect the black and white coax from the wireless LAN card.
- Spread the Mini-PCI connector clips and pull the Wireless LAN card out of the connector about 45 degree angle.

RTC BATTERY REMOVAL



RTC cable PJ5

RTC battery

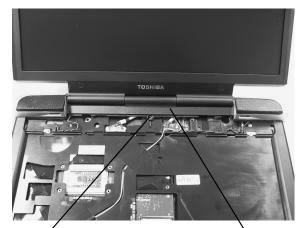
- 1. Remove the plastic insulator.
- Disconnect the RTC cable from PJ5 on the LED/Bluetooth board.
- 3. Lift out the RTC battery.

SPEAKERS REMOVAL



M2.5x6 black screws

- 1. Turn the computer upside down.
- Remove four M2.5x6 black screws securing the left and right speakers.



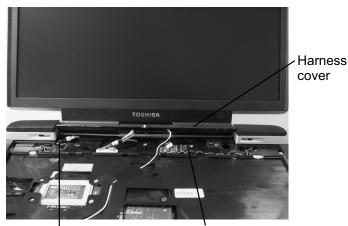
M2.5x4 black flat head screw

Harness cover

Remove one M2.5x4 black flat head screw securing the harness cover.

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SPEAKERS REMOVAL



Left speaker cable

Right speaker cable

- 1. Lift up the harness cover and disconnect the left and right speaker cables.
- 2. Lift out the left and right speakers.

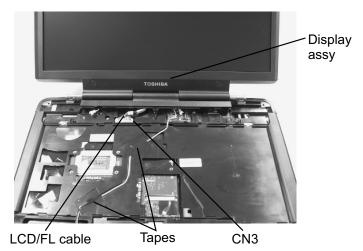
LCD ASSEMBLY REMOVAL



M2.5X6 black screws

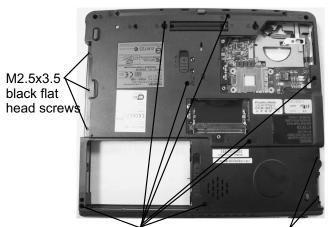
- 1. Turn the computer upside down.
- 2. Remove **two M2.5x6 black screws** securing the LCD panel..

LCD ASSEMBLY REMOVAL



- 1. Turn the computer right side up and open the display panel.
- 2. Peel off the tapes securing the wireless cables.
- Disconnect the LCD/FL cable from CN3 on the system hoard
- 4. Lift out the display assembly.

TOP COVER REMOVAL



M2.5x6 black screws

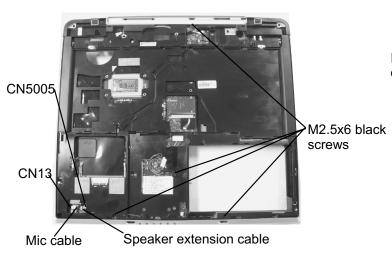
M2.5x3.5 black flat head screws

- 1. Turn the computer upside down.
- Remove five M2.5x3.5 black flat head screws and seven M2.5x6 black screws securing the bottom cover.



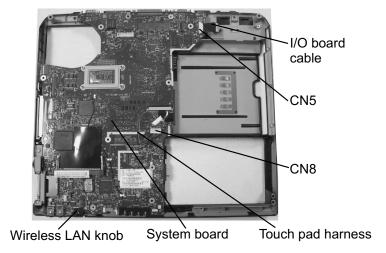
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TOP COVER REMOVAL



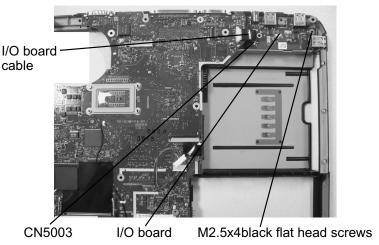
- 3. Turn the computer right side up.
- Remove three M2.5x6 black screws securing the top cover.
- Disconnect the Mic cable from CN13 and the speaker extension cable from CN5005.
- 4. Gently lift out the top cover.

SYSTEM BOARD REMOVAL

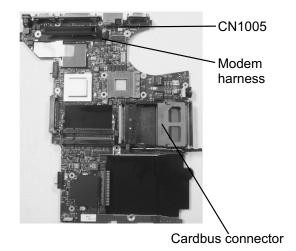


- 1. Disconnect the **touch pad harness** from **CN8** and the **I/O board cable** from **CN5** on the system board.
- 2. Gently lift up the right side of the **system board** and lift it out.
- 3. Remove the wireless LAN knob from the system board.

I/O BOARD REMOVAL



- Disconnect the I/O board cable from CN5003 on the I/O board.
- 2. Remove one M2.5x4 black flat head screw securing the I/O board..



- Disconnect the Modem harness from CN1005 on the system board.
- 5. Remove four M2x10 silver flat head screws securing the Cardbus connector.
- Disconnect the Cardbus connector from the system board.



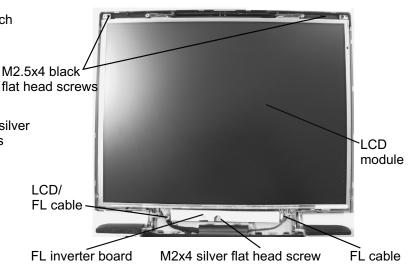
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14" LCD MASK REMOVAL

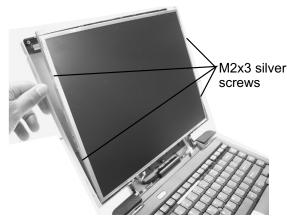
M2.5 flat he screws Display mask Mask seals LCD

- Remove two rubber seals at the top corners of the display assembly and two mask seals at the bottom corners of the display assembly.
- Remove four M2.5x4 black flat head screws and four M2x6 silver screws securing the display mask.
- 3. There are 18 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



- Remove one M2x3 silver flat head screw securing FL inverter board.
- Carefully lift up the FL inverter board and disconnect the LCD/FL cable from CN1 and the FL cable from CN2.
- 3. Remove **two 2.5x4 black flat head screws** securing the LCD top cover.



- Remove four M2x3 silver screws securing the LCD module to the LCD brackets.
- 5. Gently lift out the LCD module and disconnect the LCD/FL cable from the LCD module.