

Tecra™

8100 Series

GENERAL INFORMATION



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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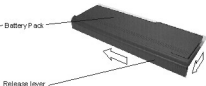
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BATTERY PACK REMOVAL



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

RELEASE LEVER REMOVAL



4. Flex the **release lever** and slide it off of the **battery pack**.

OPTIONAL PCMCIA CARD REMOVAL

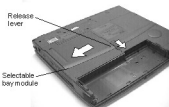


PC card Eject button

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.

SELECTABLE BAY REMOVAL



Release lever

Selectable bay module

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

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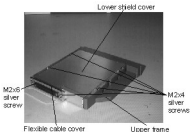
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FDD DISASSEMBLY



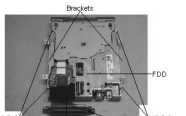
Release lever

1. Push both **release levers** and take the **FDD** out.



2. Remove **five M2x4 silver screws** and **one M2x5 silver screw**.
3. Remove **lower shield cover** and the **flexible cable cover**.
4. Lift the **FDD** out from the **upper frame**.

CD-ROM DRIVE DISASSEMBLY



M2.5x2 Flat head brass screws Black connector cover Flexible cable M2.5x2 Flat head brass screws

5. Remove **black connector cover** and disconnected the **flexible cable** from the **FDD**.
6. Remove **four M2.5 flat head brass screws** and detach the **two brackets**.

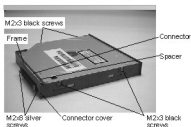
NOTE: The brackets, flexible cable, black connector cover and the flathead screws are all separate parts. Please **DO NOT** return them to **TOSHIBA**.



1. Remove the **selectable bay cover**.

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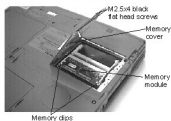
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8100 Series**CD-ROM DRIVE DISASSEMBLY**

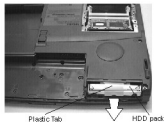
- Remove **four M2x3 black screws** and the **frame**.
- Remove **two M2x3 silver screws**.
- Remove the **spacer**, **connector**, and the **connector cover** from the CD-ROM drive.

HDD REMOVAL

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

MEMORY MODULE REMOVAL

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



- Untold the **plastic tab** and pull to remove the HDD from the bay.

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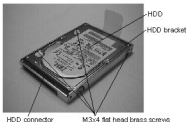
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HDD REMOVAL



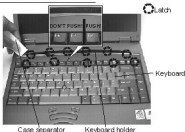
- Remove **four M3x4 flat head brass screws** securing the HDD to the bracket and lift the drive out of the **bracket**.
- Unplug the **HDD connector** from the drive.

MODEM BOARD REMOVAL



- Remove **four M2.5x4 flat head black screws** securing the module.
- Lift gently to disconnect the **modem module** from the system board.

KEYBOARD REMOVAL



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

NOTE: When installing the keyboard holder do not press on the area above F6&F7 keys. Pressing the F6&F7 area may bend the aluminum plate causing the **FAN** to generate noise.

KEYBOARD REMOVAL



- Remove **one M2.5x3 black** securing the keyboard.
- Lift out the **keyboard** and set it as shown above.
- Disconnect the **keyboard cable** from **P J580** on the system board.

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TOP COVER REMOVAL

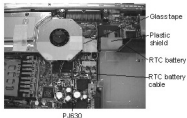


1. Turn the computer upside down and remove the following screws:
 - 1 M2.5x4 flat head black screws from the select bay
 - 6 M2.5x4 flat head black screws from the battery bay
 - 4 M2.5x6 black screws from the underside
 - 2 M2.5x16 black screws from the underside
 - 2 M2.5x4 flat head black screws from the back of the computer



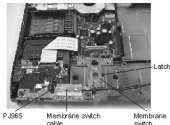
2. Turn the computer right side up and open the display.
3. Disconnect the **display cable** from **PJ310** on the system board.
4. Remove **two M2.5x4 brass screws** and **four M2.5x16 black screws** from the keyboard area.
5. Using a case separator tool, release the **latches** securing the upper and lower covers and lift off the cover with the display assembly.

RTC BATTERY REMOVAL



1. Disconnect the **RTC battery cable** from **PJ630** on the system board.
2. Remove the strip of **glass tape** securing the battery cable.
3. Fold back the **plastic shield** and lift out the battery.

MEMBRANE SWITCH REMOVAL



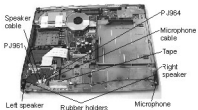
1. Disconnect the **membrane switch cable** from **PJ665** on the sound board.
2. Release the latch securing **membrane switch** and lift it off.

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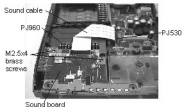
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SPEAKERS & MICROPHONE REMOVAL



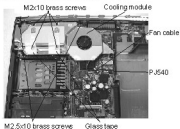
1. Lift the strip of **glass tape** securing the microphone and speaker cables.
2. Disconnect the **speaker cable** from **P J961** and the **microphone cable** from **P J964** on the sound board.
3. Remove the cables and lift out the speaker assemblies.

SOUND BOARD REMOVAL



1. Disconnect the **sound cable** from **P J530** 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 **P J960** on the sound board.

COOLING MODULE REMOVAL



1. Disconnect the **fan cable** from **P J540** on the system board.
2. Lift the strips of **glass tape** and remove **four M2x10** and **two M2.5x10 brass screws** securing the cooling module.
3. Lift out the **cooling module**.

CPU REMOVAL



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

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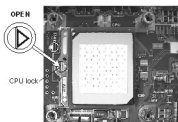
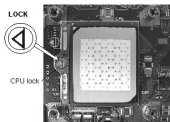
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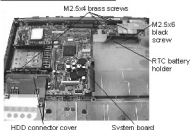
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CPU REMOVAL

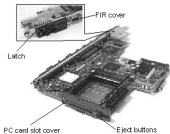


1. Rotate the **CPU lock** 180 degrees clockwise, to the **OPEN** position, and lift the CPU out of the socket.

SYSTEM BOARD REMOVAL



1. Remove **one M2.5x6 black screw** securing the **RTC battery holder** and remove the **RTC battery holder**.
2. Lift out the **HDD connector cover**.
3. Remove **four M2.5x4 brass screws** securing the system board.
4. Lift out the **system board**.



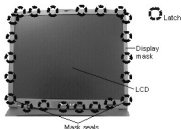
5. Unfold the PC card **eject buttons** and remove the **PC card slot cover**.
6. Release the **latch** securing the FIR cover and remove the **FIR cover**.

NOTE: The FIR cover is a separate part.
Please **DO NOT** return this part to **TOSHIBA**.

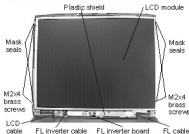
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8100 Series**14.1 TFT DISPLAY MASK REMOVAL**

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**.
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 **top six latches**, to the **five latches on the right and left sides**, ending with the **six bottom latches**.

FL INVERTER AND 14.1 TFT LCD REMOVAL

1. Lift the **plastic shield**.
2. Carefully lift up the **FL inverter board** and disconnected the **FL inverter 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 the **LCD module** from right to left of the LCD cover.
6. Disconnect the **LCD cable** from the **LCD module** and remove the **LCD** from the computer.

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