

Disassembly Procedure

Please follow the information provided in this section to perform the complete disassembly procedure of the notebook. Be sure to use proper tools described before.

ASUS Z93E Series Notebook consists of various modules. This chapter describes the procedures for the complete notebook disassembly. In addition, in between procedures, the detailed disassembly procedure of individual modules will be provided for your service needs.

The disassembly procedure consists of the following steps:

- Battery Module
- HDD Module
- Wireless LAN Module
- TV Tuner Module
- Second Memory Module
- CPU Module
- ODD Module
- Keyboard
- Main Memory Module
- Top Case Module
- LCD Module
- Bottom Case Module
- Motherboard Module

BATTERY

Battery Module

The illustration below shows how to remove the battery module.

1. Turn over the NB. Slide the battery lock and pull the battery pack out.



HDD MODULE

HDD Module

The illustrations below show how to remove the HDD module from the notebook.

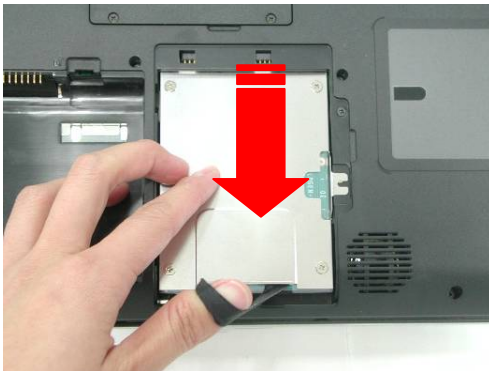
Removing HDD Module

HDD MODULE
REMOVAL

1. Remove 2 screws [M2 * 6(L)] here. And lift the cover away.



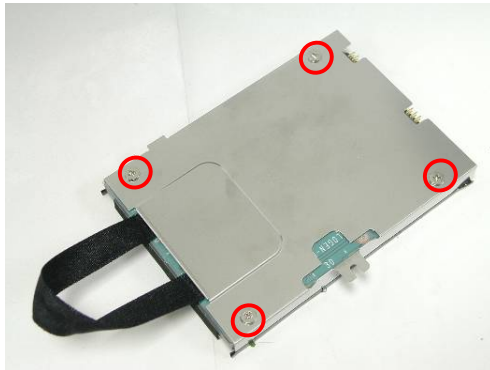
2. Pull out the hard drive and lift the hard drive away.



Disassembling HDD Module

Remove 4 screws [M2 * 3(L)] to separate HDD from HDD housing.

HDD MODULE
DISASSEMBLY



Second Memory Module

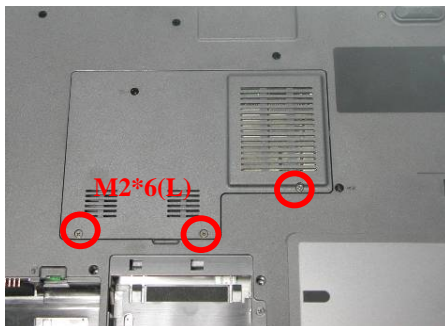
The Z93E Series Notebook has two expansion SO-DIMM slots for you to upgrade the total memory up to 2GB with two DDR2-533 1024 MB SO-DIMM RAM modules, here introduce you the second memory slot.

MEMORY
MODULE

Removing Memory module

1. Remove 3 screws [M2 * 6(L)] and take the DIMM door away.

MEMORY
REMOVAL



2. Remove the Memory module by opening the latches which will pop the module up to a 45° angle and then pulling out the module.



TV TUNER

TV TUNER Module

The illustration below shows how to remove the TV TUNER module.

1. Disconnect the RF cable and open the two latches to pop the TV TUNER module and remove it .



CPU

CPU Module

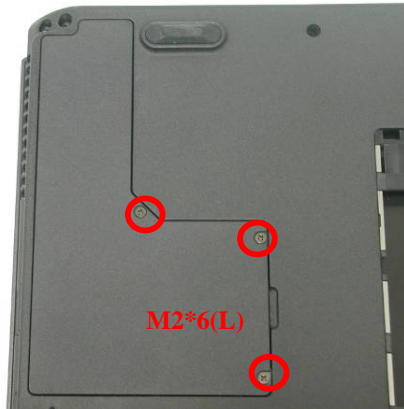
The illustrations below show how to remove the CPU module from the notebook.

CPU

REMOVAL

Removing CPU

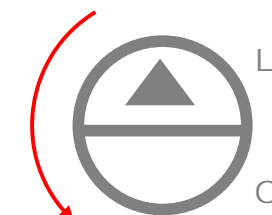
1. Remove 3 screws [M2 * 6(L)] and take the DIMM door away.



2. Remove 4 screws [M2 * 4(L)] by order and take the CPU heat sink module away.



3. Turn the non-removable screw 180 degrees counter-clockwise to loosen the CPU. Squeeze the vacuum handling pump and use it to lift the CPU away.
4. Don't touch the die above the CPU. And remove the CPU away.
5. Remove CPU thermal pad from CPU die with a pair of tweezers.



Unlock

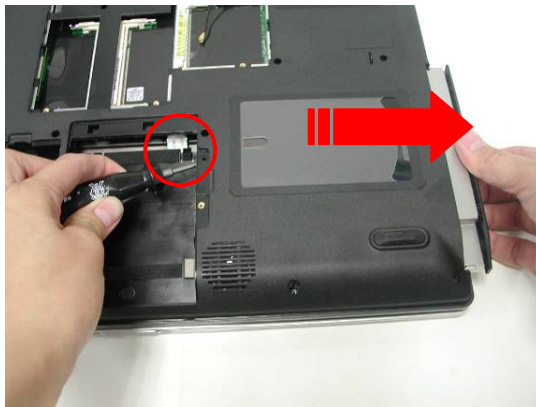
ODD Module

The illustration below shows how to remove the ODD module.

1. Remove the rubber and remove 1 screw [M2 * 6(L)] from the bottom case.



2. Put the screw driver here and push the ODD drive out from the NB.

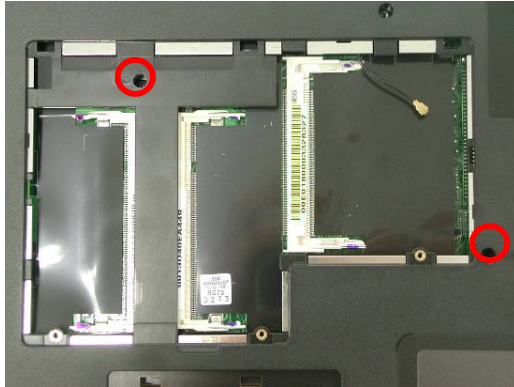


Keyboard

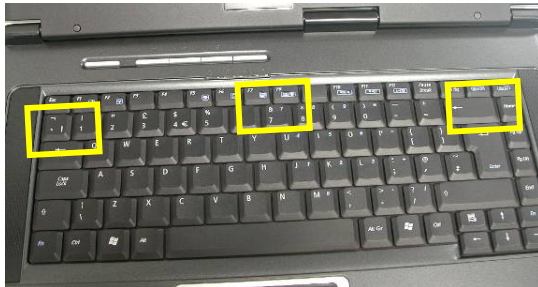
The illustration below shows how to remove the keyboard

Removing Keyboard

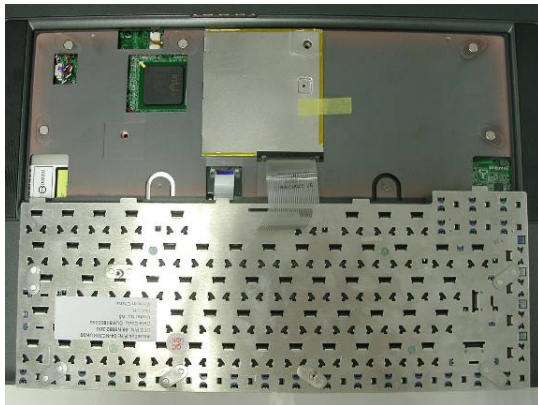
1. Remove 2 screws (M2*8L).



2. Turn over the NB and push the 3 latches in with a pair of tweezers or a single-slotted screwdriver and lift the keyboard up.



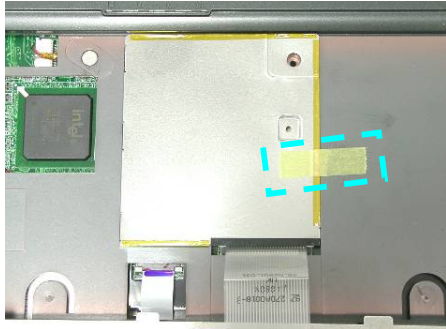
3. Lay the keyboard down over the touch pad module. Do not remove the keyboard yet. The keyboard FPC is still attached.



Wireless LAN Module

The illustration below shows how to remove the Wireless LAN module.

1. Remove 1 yellow tape and take away the Mini-PCI bracket.



2. Disconnect the MAIN & AUX Antenna and open the two latches to pop the MINI PCI MODULE up then pull it out.



Removing Keyboard Cable

Use a flexible connector tool to unlock the cable connector on both ends. Carefully pull out the keyboard cable with a pair of tweezers.

4. Disconnect the keyboard FPC and remove the keyboard.



TOP CASE
MODULE

TOP CASE
MODULE
REMOVE

Top Case Module

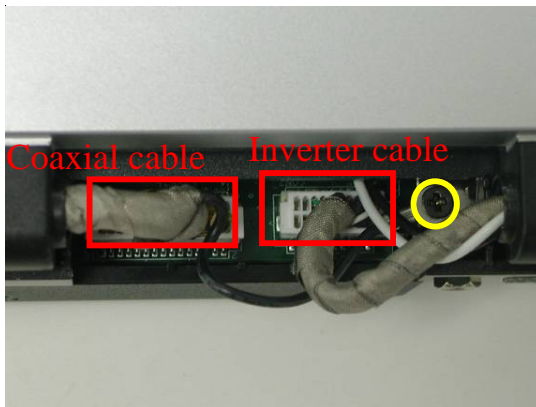
The illustrations below show how to disassemble and remove the top case module of the notebook. The module contains the top case itself and touch pad module.

Removing Top Case Module

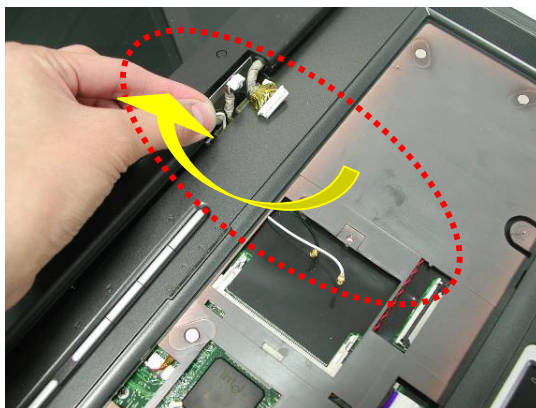
1. Remove the back - coaxial & inverter cable cover with a pair of tweezers.



2. Remove 1 screws [M2 * 4(L)] and disconnect the Coaxial cable & Inverter cable with tweezers.



3. Carefully pull out the Antenna from the bottom case.



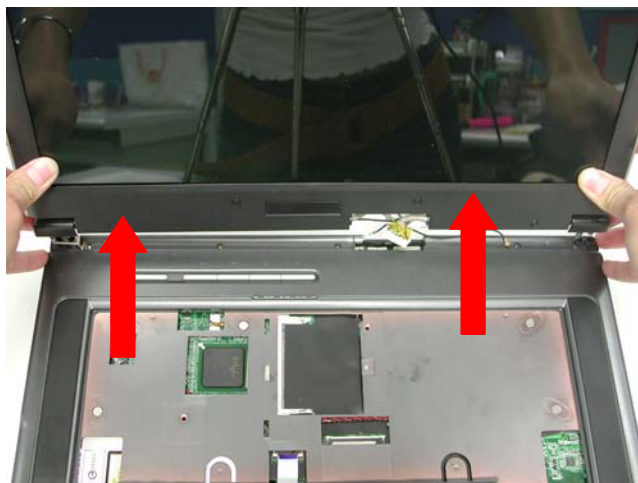
4. Remove 2 screws [M2 * 6(L)] on rear side.



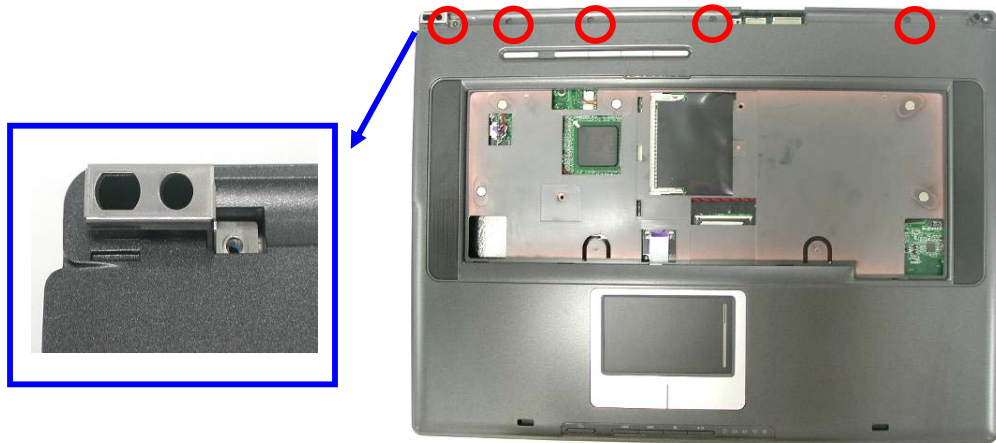
5. Remove 4 screws [M2 * 6(L)] on the bottom case.



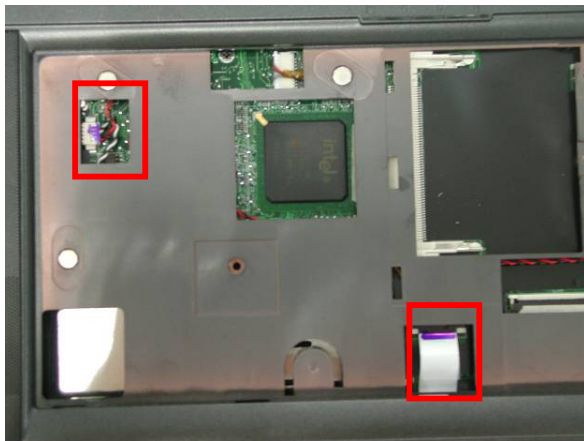
6. Separate LCD Module from the Top case module.



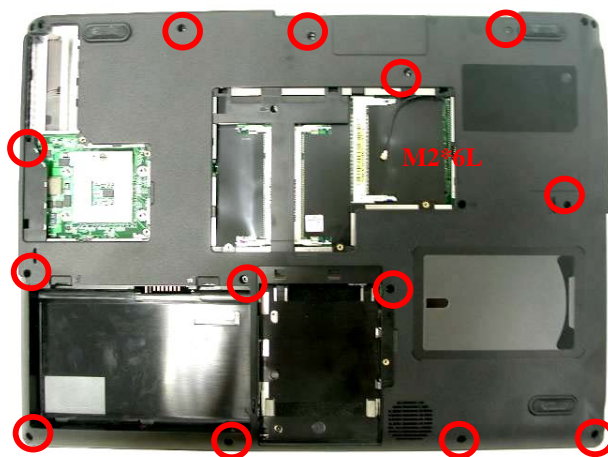
7. Remove 5 screws [M2 * 4(L)] on the top case then remove the hinge bracket.



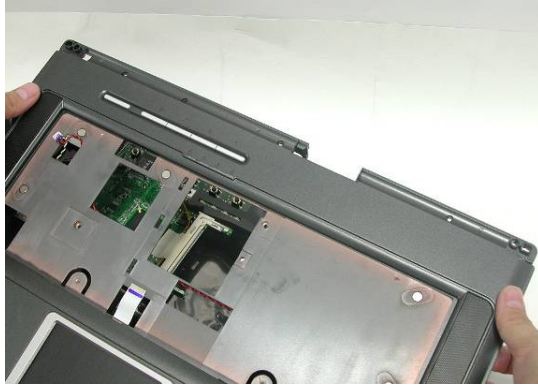
8. Remove the speaker cable & touchpad cable on top case.



9. Turn over the NB and remove 13 screws [M2 * 6(L)] on the bottom case.



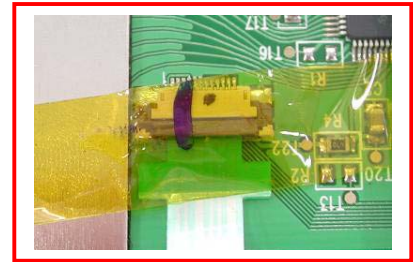
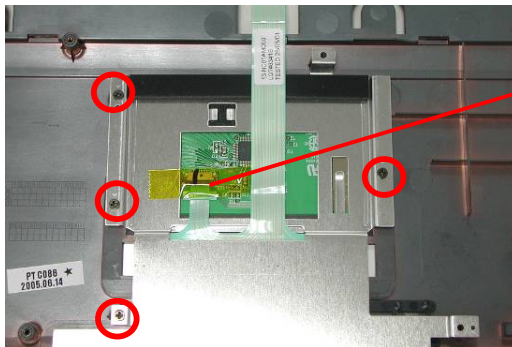
10. Now you can separate the Top case from the Bottom case.



TOUCH
PAD
MODULE
REMOVE

Removing Touch Pad Module

1. Remove 4 screws [M2 * 3(L)] and remove 1 yellow tape and disconnect the Touch pad board FPC with tweezers then take away the Touch pad bracket from the top case.



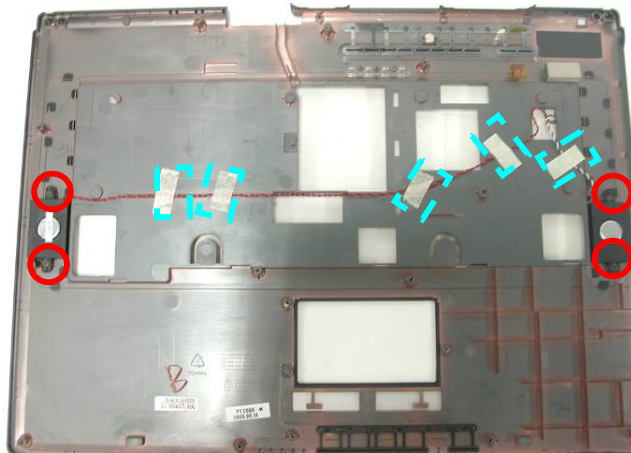
2. Separate the Touch pad board from the Touch pad bracket.



SPEAKER
MODULE
REMOVE

Removing Speaker module

1. Remove 4 screws [M2 * 4(L)] on the both side.
2. Remove 5 tapes and take away the both speaker module.



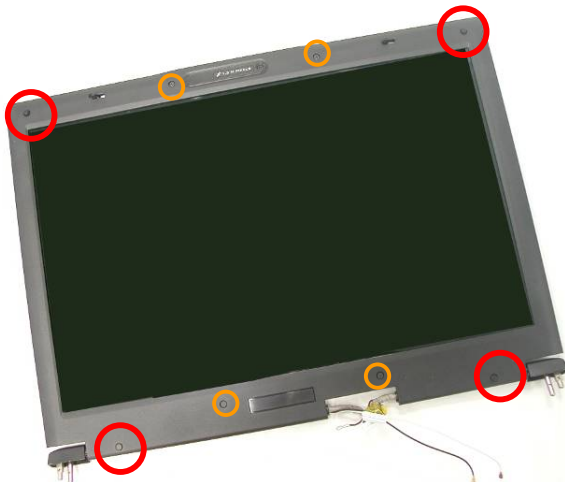
LCD
MODULE

LCD Module

The illustrations below show how to remove and disassemble the LCD module. The module contains LCD panel, inverter board, LCD hinge bracket, hinge cover, LCD front cover, and LCD back cover. **Please do not disassemble the individual parts.**

Disassembling LCD Module

1. Remove 8 rubber pads. And remove 4 screw [M2.5 *6(L)] & 4 screw [M2 *6(L)] underneath them.



LCD
DISASSEMBLY

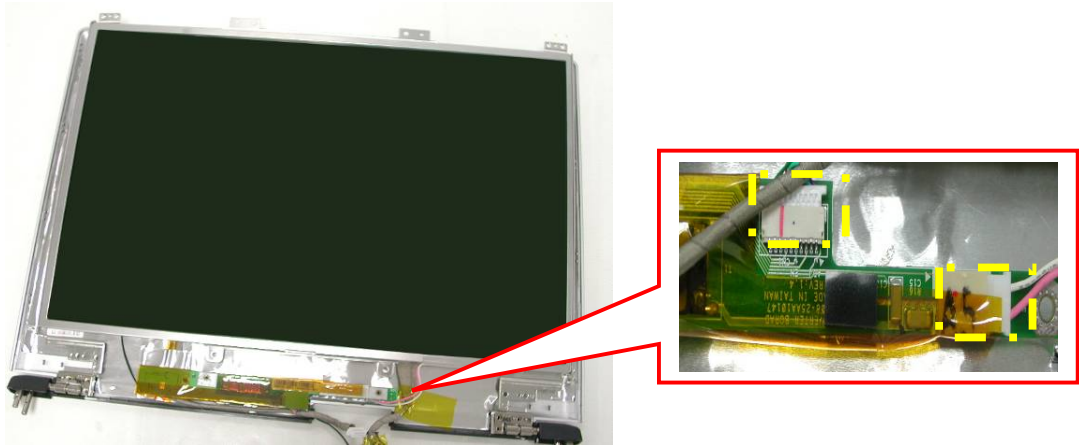
- Carefully pry the inside edges of the LCD front bezel and remove the LCD front cover.



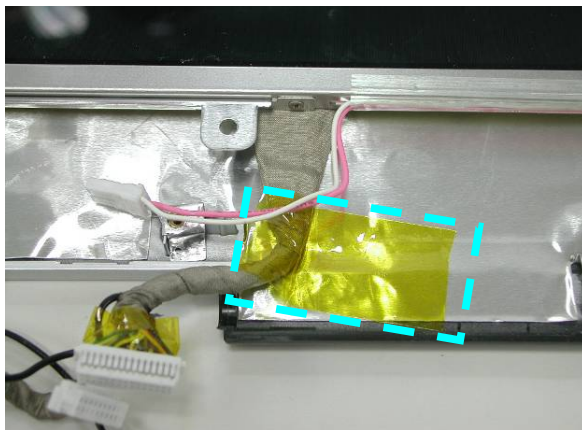
- Remove 6 screws [M2.5 * 6(L)] on LCD module.



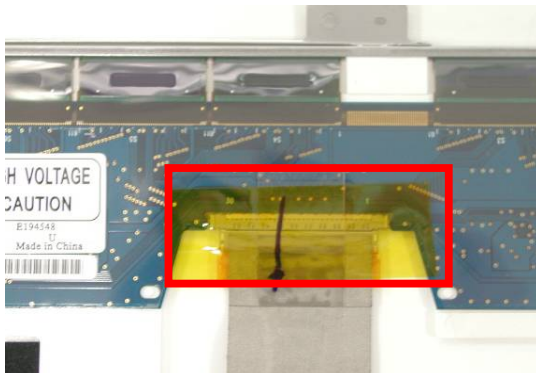
4. Lift a bit LCD module and disconnect the coaxial cable & LCD cable then remove the inverter board.



5. Remove 1 yellow tape and take away the LCD module from the LCD back cover.



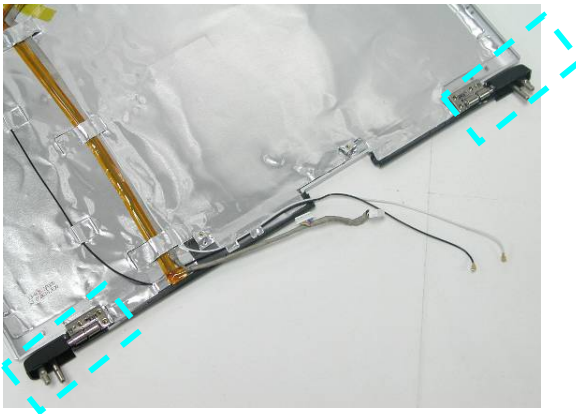
6. Turn over the LCD panel and remove 1 yellow tape then disconnect the coaxial FPC on the LCD panel.



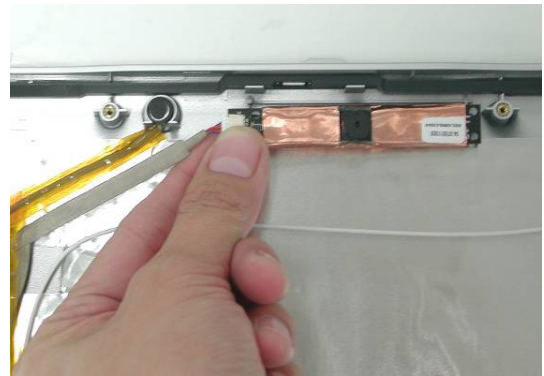
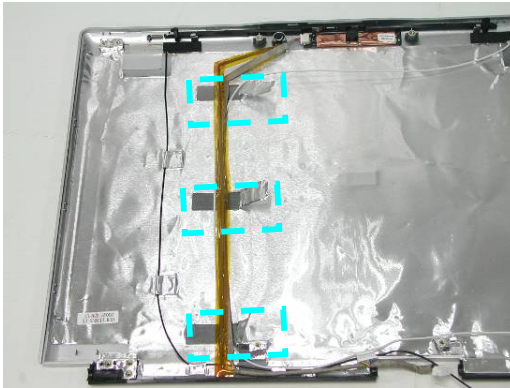
7. Remove 4 screws [M2* 3(L)] and remove the right bracket from LCD panel.
And do the same process on the left bracket



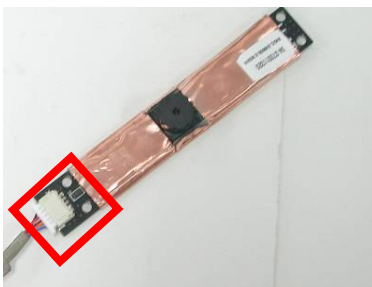
8. Remove the LCD Hinges from LCD back cover on both sides.



9. Remove 3 tapes and take away the CCD module from LCD back cover.



10. Disconnect the CCD cable.

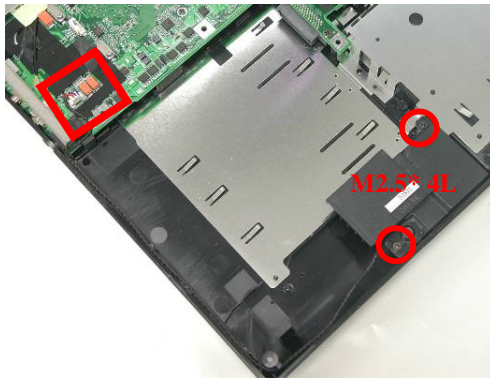


Bottom Case Module

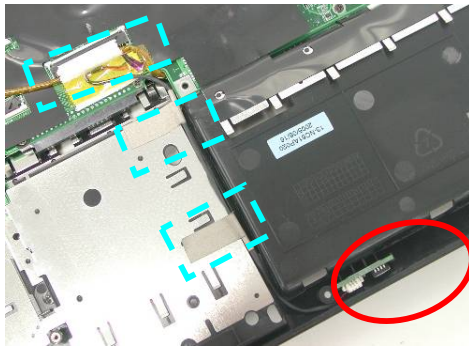
The illustrations below show how to disassemble and remove the bottom case module of the notebook. The module contains the bottom case itself, speaker sets and Motherboard.

Removing Motherboard

1. Disconnect the speaker cable and remove 2 screws (M2*4L) then remove the speaker module.



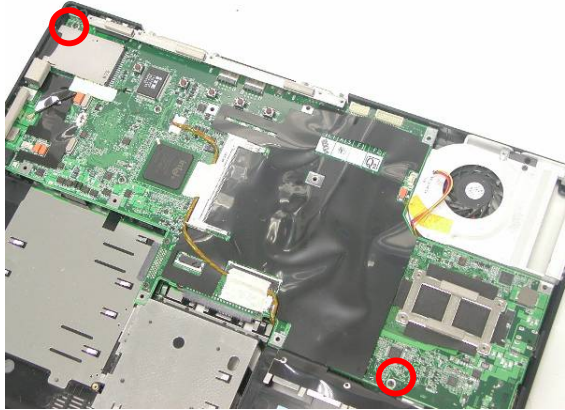
2. Remove 3 tapes and disconnect the CIR connector then take away the CIR board.



3. Remove 1 yellow tape and disconnect the FAN cable.



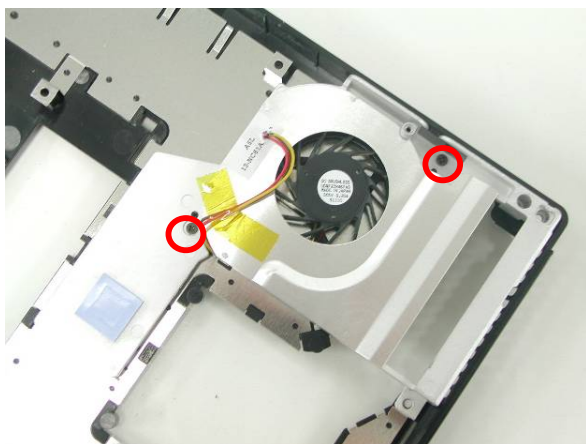
4. Remove 2 screws [M2 * 6(L)] on the M/B .



5. Remove the motherboard from the bottom case.



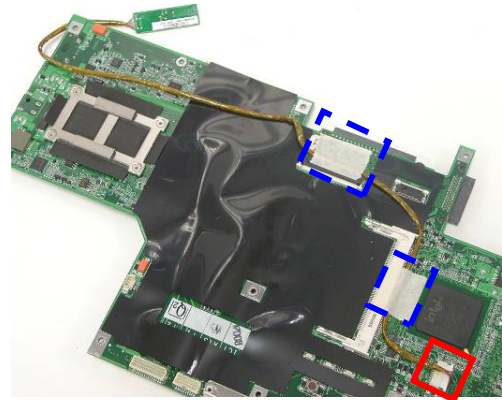
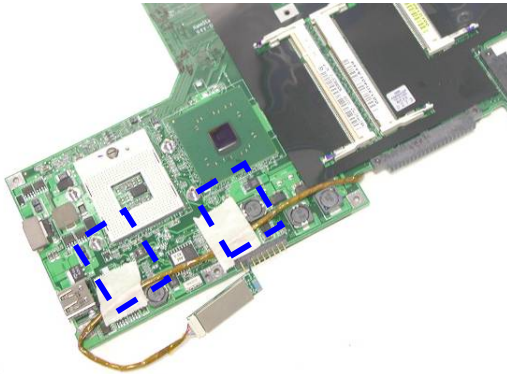
6. Remove 2 screws [M2 * 4(L)] and remove the FAN module.



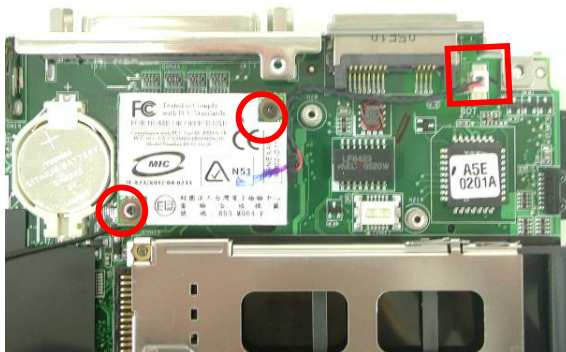
Motherboard Module

Removing Memory Module

1. Remove 2 tapes and turn over the MB remove 2 tapes and disconnect the Bluetooth cable then take away the Bluetooth board.



2. Remove 2 screws [M2 * 4(W)] and disconnect the cable then take away the modem module.



3. Disconnect the antenna and take away it from the motherboard.

