

Chapter

2

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 A7V 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 notebook. Unlock the battery lock (No.1).



2. Slide the battery lock (No.2) and pull the battery pack out.



HDD MODULE

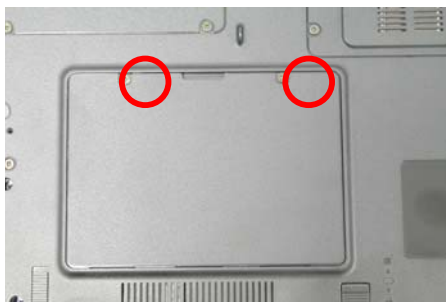
HDD Module

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

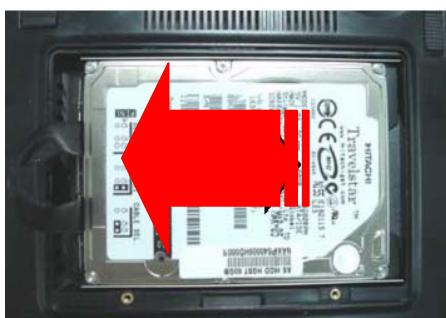
HDD MODULE
REMOVAL

Removing HDD Module

1. Remove 2 screws [M2 * 4(L)] here. And lift the cover away.



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



Disassembling HDD Module

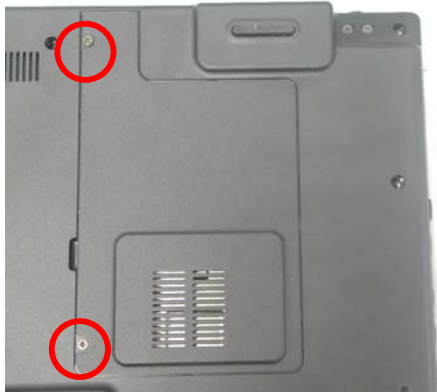
Remove 4 screws [M3 * 4(L)] to separate HDD from HDD housing.


HDD
MODULE
DISASS
SEMBLY

Wireless LAN Module

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

1. Remove 2 screws [M2 * 4(L)] and remove the Mini-PCI Cover away.



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



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 the TV TUNER module from the mini-PCI socket.


MEMORY
MODULE

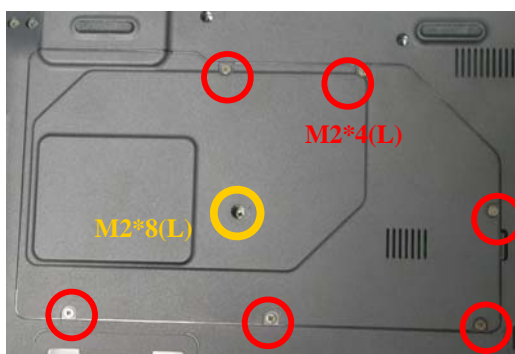
Second Memory Module

The A7V 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.

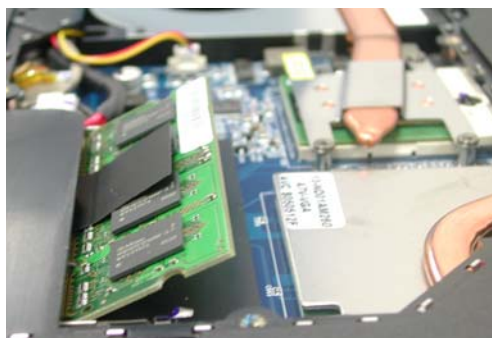
MEMORY
REMOVAL

Removing Memory module

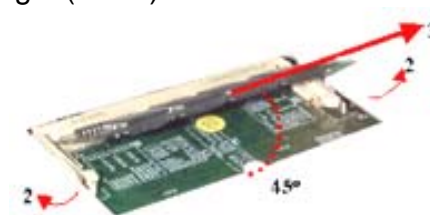
1. Remove 6 screws [M2 * 4(L)] & 1 screw [M2 * 8(L)] and take the CPU door away.



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.



3. If there is an existing memory, remove it by opening the latches(No. 2), which will pop the module up to a 45° angle, and then pulling out the module in that angle (No. 3).



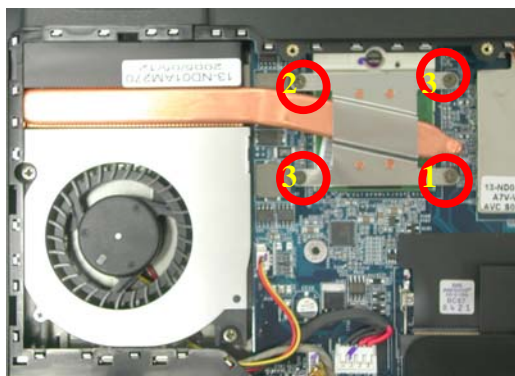
CPU

CPU Module

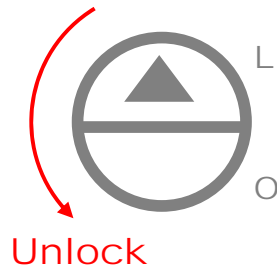
The illustrations below show how to remove the CPU module from the notebook.

Removing CPU

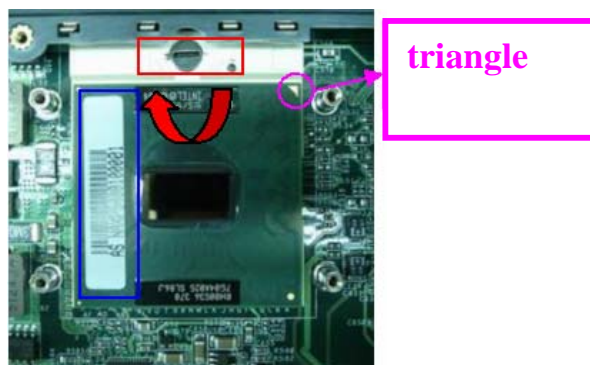
1. Remove 4 screws [M2 *4(L)] by order and take the CPU heat sink module away.



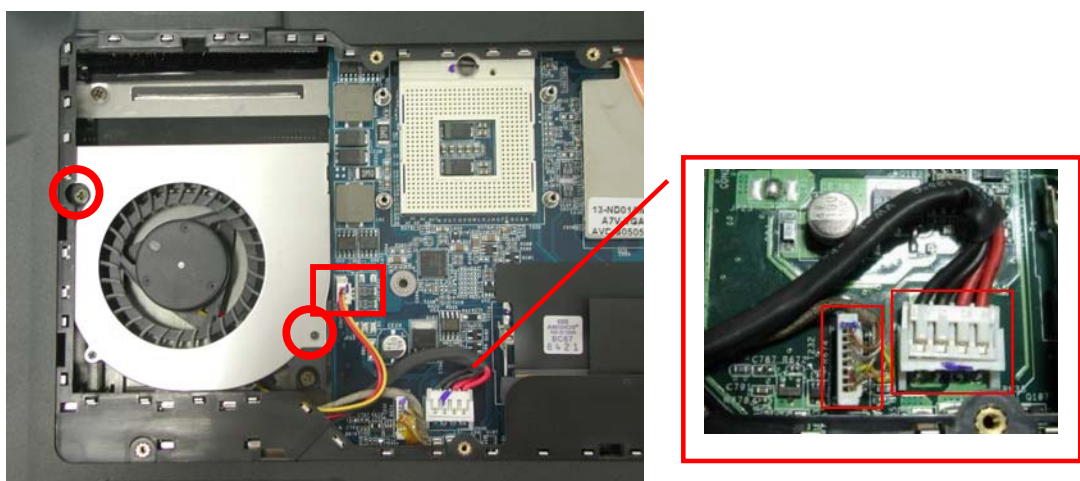
2. Turn the non-removable screw 180 degrees counter-clockwise to loosen the CPU. Squeeze the vacuum handling pump and use it to lift the CPU away.



3. Don't touch the die above the CPU.
4. Remove the CPU away.
5. Remove CPU thermal pad from CPU die with a pair of tweezers.



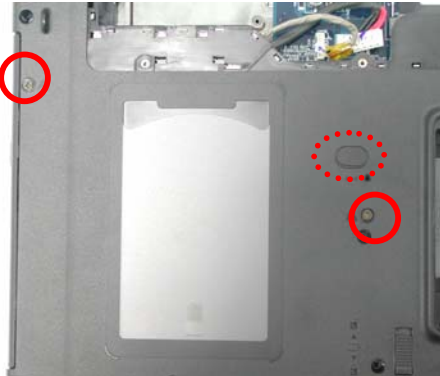
6. Remove 2 screws [M2 *3(L)] and disconnect the fan cable & DC-in cable & Bluetooth cable, and then take the FAN module away.



ODD Module

The illustration below shows how to remove the ODD module.

1. Remove the rubber and remove 2 screws [M2 * 4(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

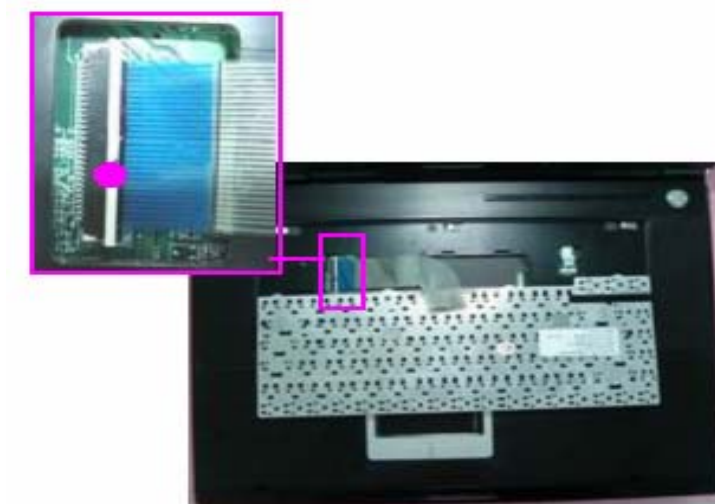
1. Push the 3 latches in with a pair of tweezers or a single-slotted screwdriver and lift the keyboard up.
2. Lay the keyboard down over the touch pad module. Do not remove the keyboard yet. The keyboard FPC is still attached.



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.
Lock the connector again to avoid possible breakage
Remove Keyboard from the top case.

3. Disconnect the keyboard FPC and remove the keyboard.



MEMORY
MODULE

Main Memory Module

The A7V 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 main memory slot.

MEMORY
REMOVAL

Removing Memory module

1. Remove 1 screws [M2 * 4(L)] and take the DIMM door away.



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.



TOP CASE
MODULE

TOP CASE
MODULE
REMOVE

Top Case Module

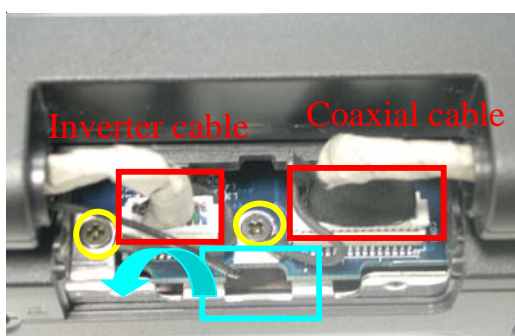
The illustrations below show how to disassemble and remove the top case module of the notebook. The module contains the top case itself and touch pad module.

Removing Top Case Module

1. Remove 2 screws [M2 * 4(L)] (back - coaxial cable cover) and carefully remove the Cable Cover.



2. Remove 2 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 [M2.5 * 8(L)] on rear side.



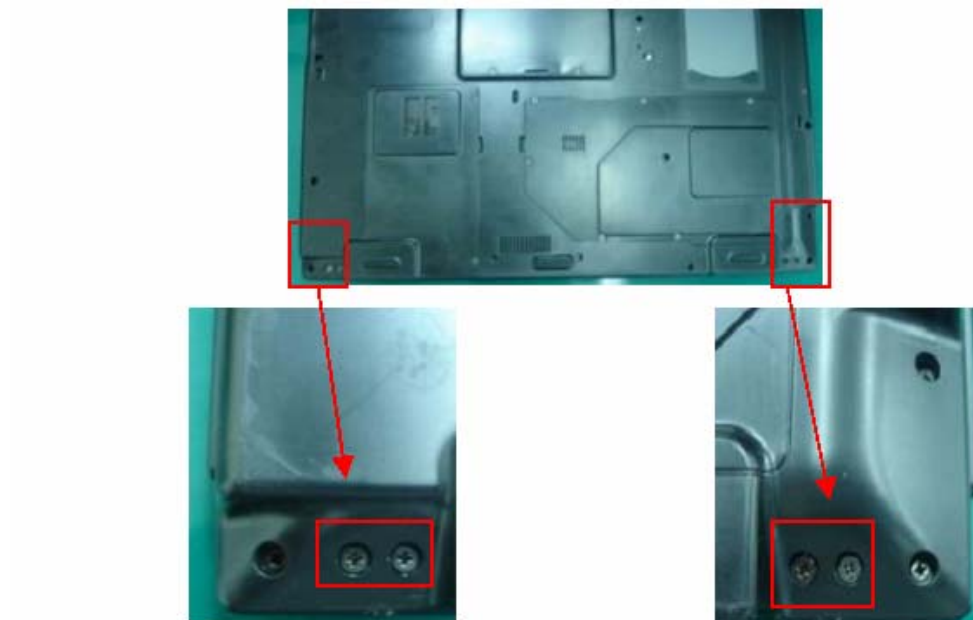
5. Remove 2 screw [M2 * 6(L)] and carefully remove the hinge cover on the both side.



6. Remove 2 screws [M2.5 * 8(L)] to unloosen the hinge.



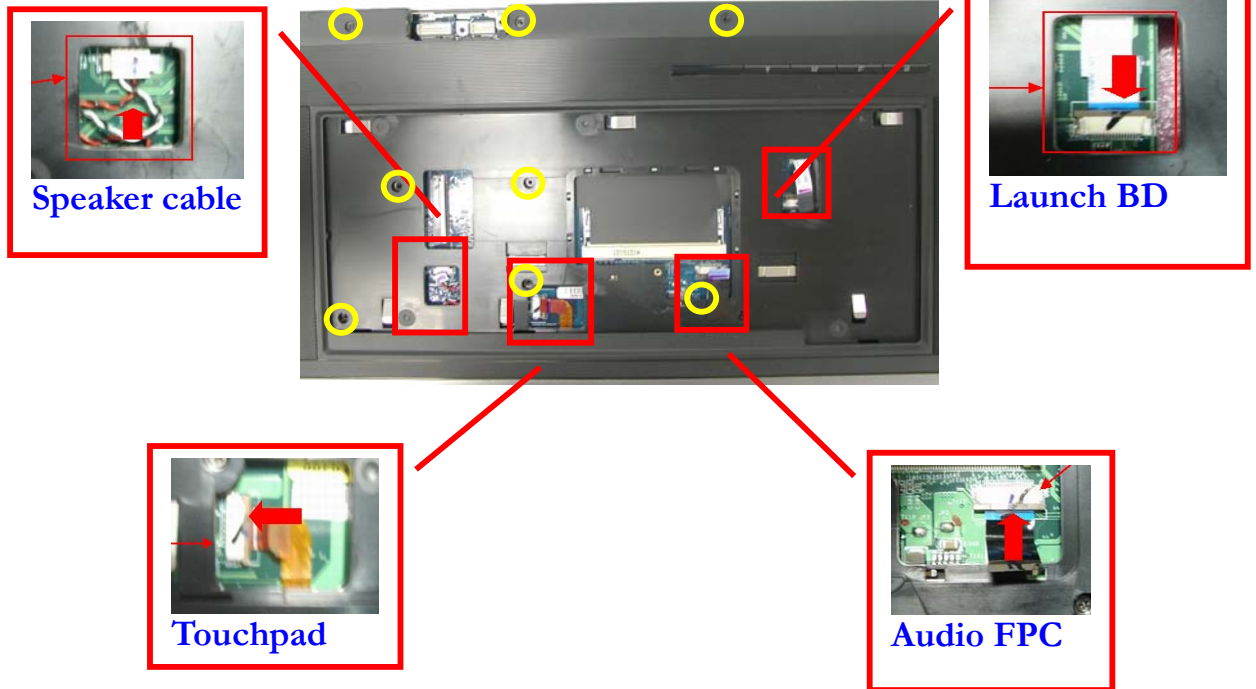
7. Remove 4 screws [M2.5 * 8(L)] on the Bottom case.



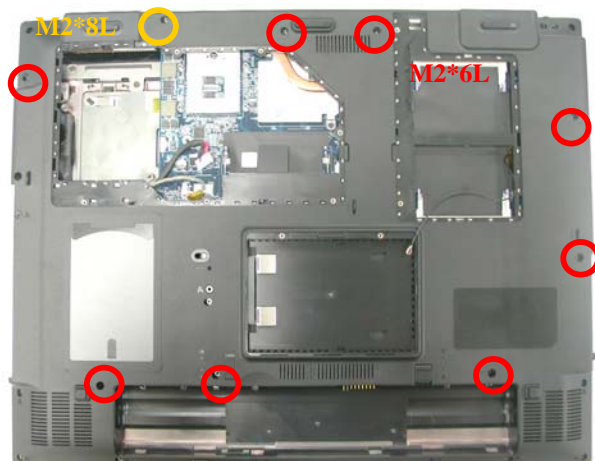
8. Separate LCD Module from the Top case module.



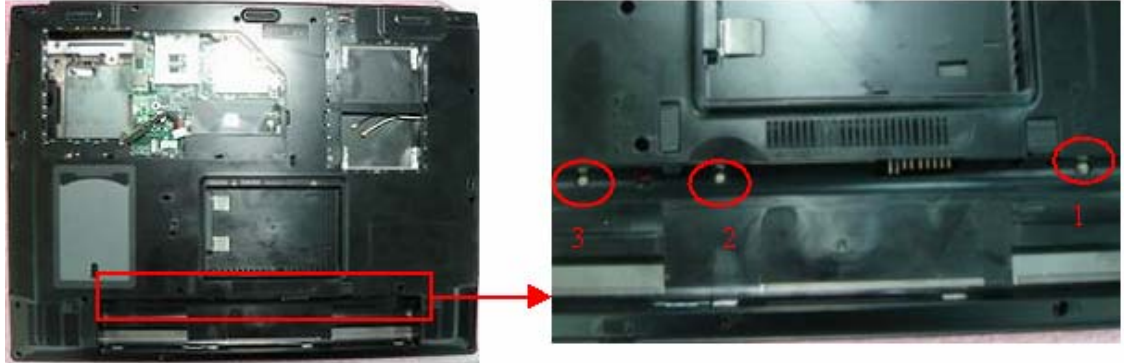
9. Remove 8 screws [M2 * 4(L)] on the top case.
10. Disconnect the speaker cable & Touch pad FPC & Audio FPC & Launch BD FPC from the motherboard.



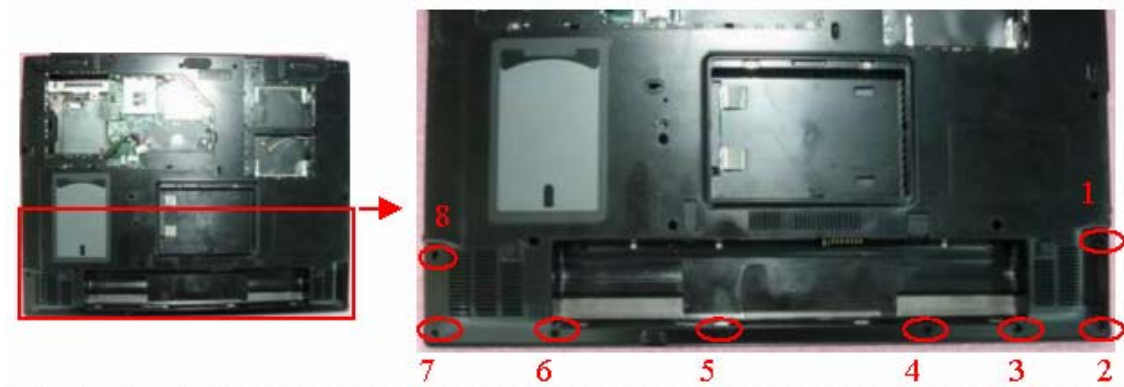
11. Turn over the NB and remove 1 screws [M2 * 8(L)] & 8 screws [M2 * 6(L)] on the bottom case.



12. Remove 3 screws [M2 * 3(L)] on the bottom case.



13. Remove 8 screws [M2 * 4(L)] on the bottom case.



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



Removing Touch Pad Module

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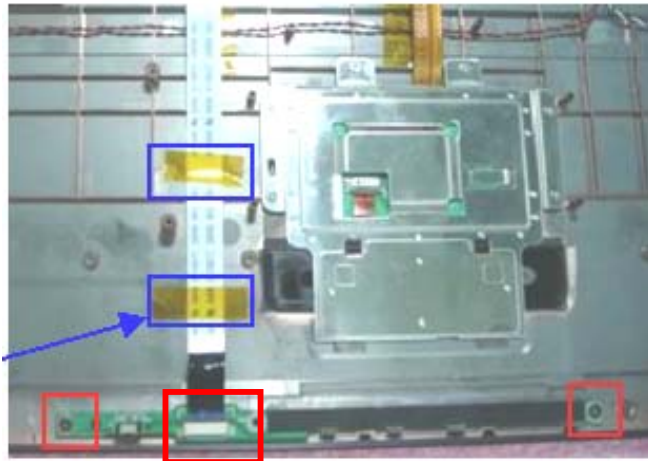
Removing LAUNCH BD. module

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AUDIO BOARD
MODULE
REMOVE

Removing Audio board module

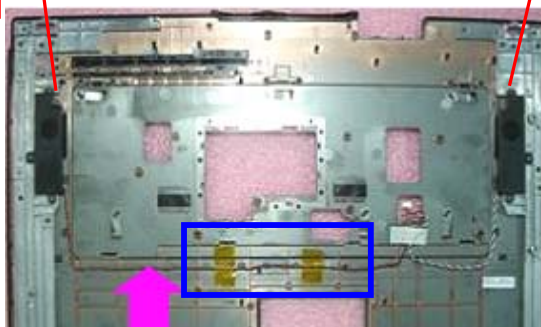
1. Remove 2 yellow mylar and disconnect the FPC.
2. Remove 2 screws [M2 * 4(L)] and take away the Launch BD. module.



SPEAKER
MODULE
REMOVE

Removing Speaker module

1. Remove 6 screws [M2 * 4(L)] on the both side.
2. Remove 2 yellow mylar and take away the both speaker module.



LCD

MODULE

LCD

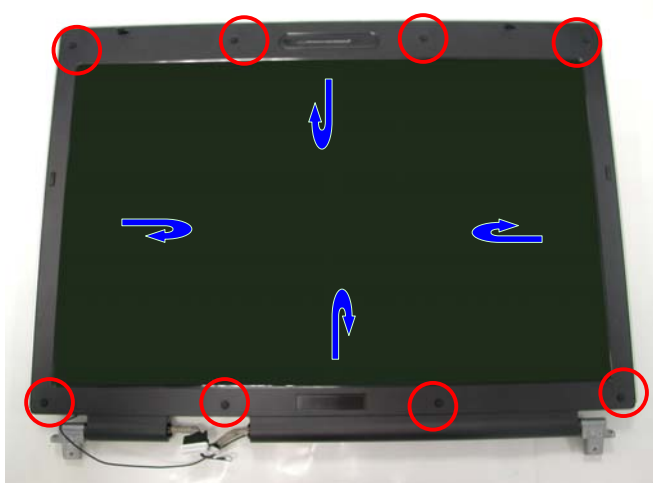
DISASSEMBLY

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 then 8 screws [M2.5 * 8(L)] underneath them.



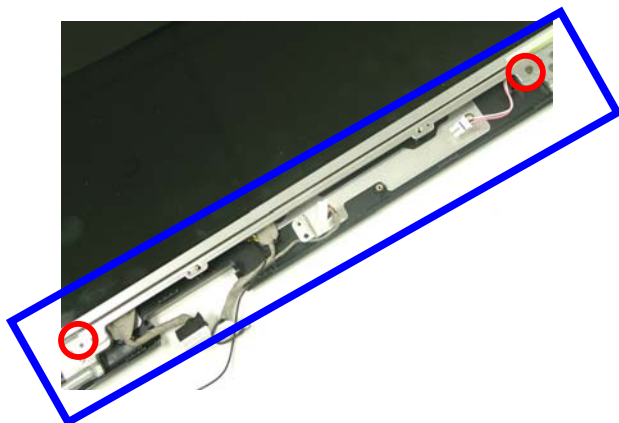
2. Carefully pry the inside edges of the LCD front bezel and remove the LCD front cover.



3. Remove 2 screws [M2.5 * 5(L)] and disconnect the coaxial cable & LCD cable then remove the inverter board.



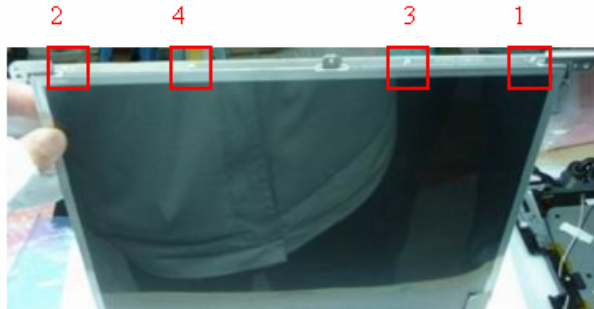
4. Remove 2 screws [M2.5 * 8(L)] and remove the LCD bottom bracket from the LCD cover.



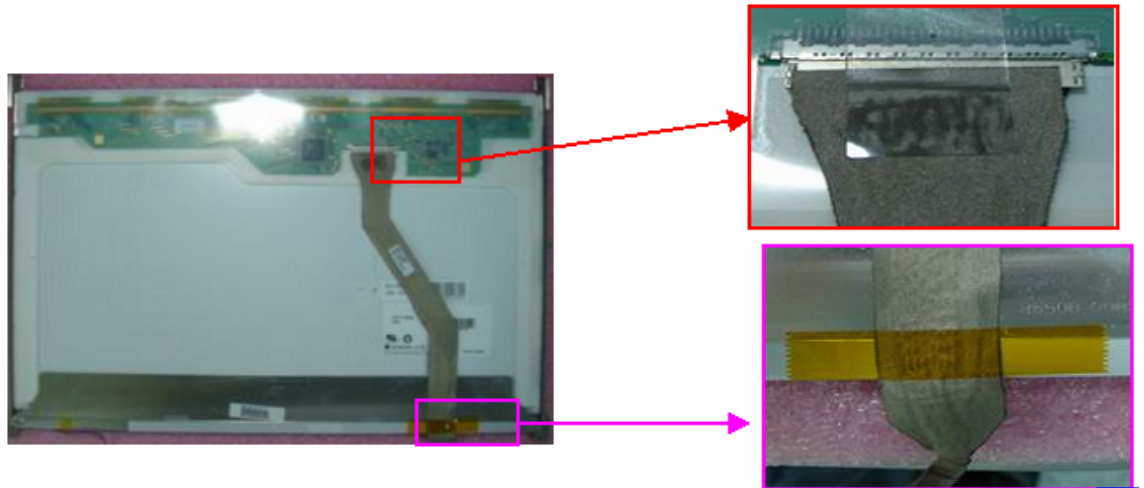
5. Remove 2 screws [M2 * 5(L)] and remove the LCD module from the LCD back cover.



6. Remove 4 screws [M2* 3(L)] & 4 screws on the other side.



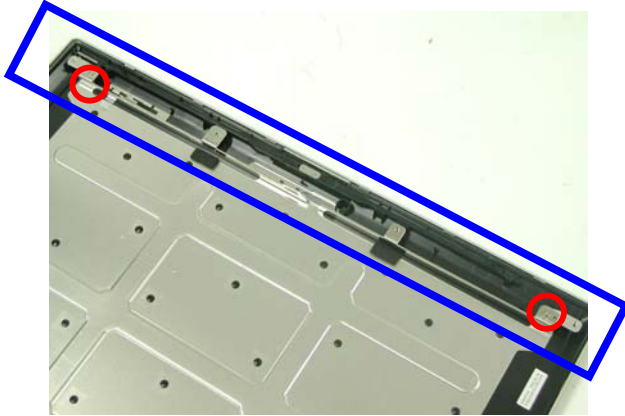
7. Remove 1 yellow tape and disconnect the coaxial cable from LCD.



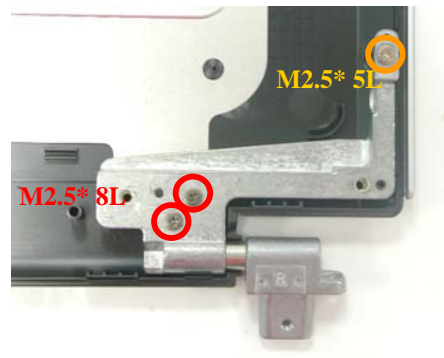
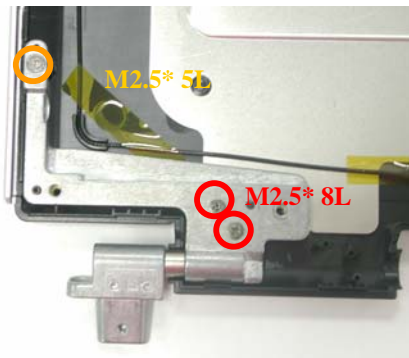
8. Remove 1 yellow tape and remove CCD module then disconnect the CCD cable.



9. Remove 2 screws [M2.5 * 5(L)] and remove the Top LCD bracket from the LCD cover.



10. Remove 1 screw [M2.5 * 5(L)] & 2 screws [M2.5 * 8(L)] on the both side.
11. Remove the LCD Hinges from LCD back cover on both sides.



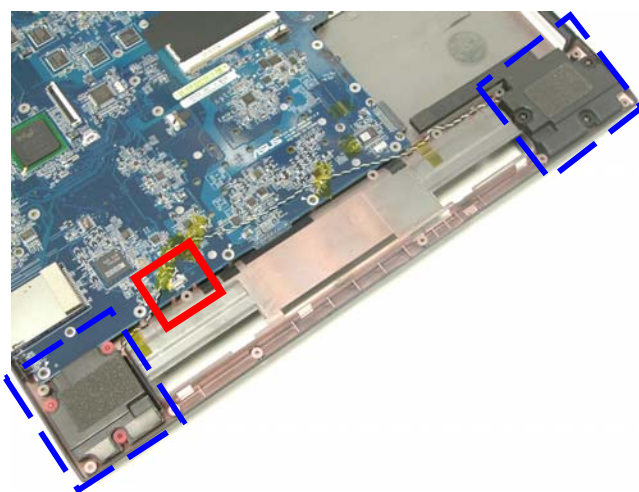
BOTTOM
CASE
MODULE

Bottom Case Module

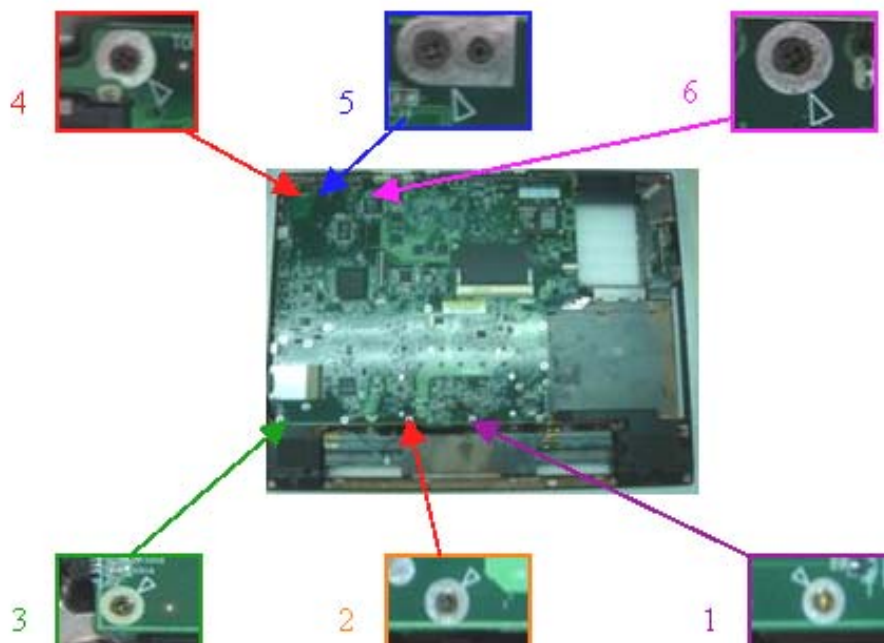
The illustrations below show how to disassemble and remove the bottom case module of the notebook. The module contains the bottom case itself, speaker sets and Motherboard.

Removing Motherboard

1. Remove 3 yellow mylar and disconnect the speaker cable then remove the both speaker module.



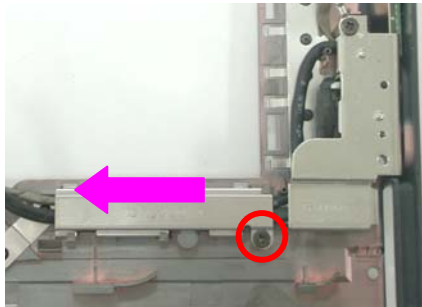
2. Remove 6 screws [M2 * 6(L)] on the M/B.



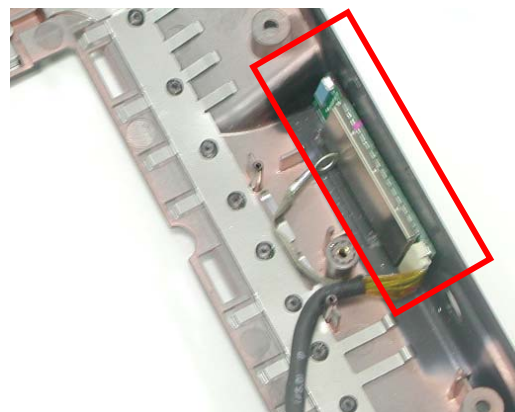
3. Remove the motherboard from the bottom case.



4. Remove 1 screw [M2 * 4(L)] and remove DC-IN bracket.



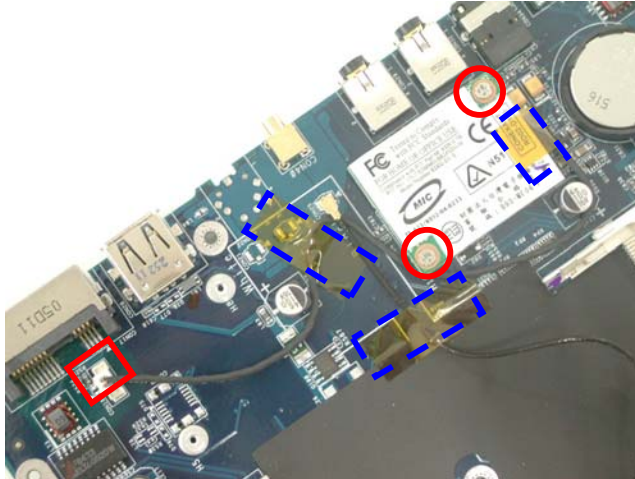
5. Remove 1 screw [M2 * 4(L)] and remove the bracket then disconnect the cable and remove the Bluetooth board.



Motherboard Module

Removing Memory Module

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



2. Remove 3 screws [M2 * 4(W)] and take away the VGA thermal module.

