

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 L7000 Series Notebook consists of various modules. This chapter describes the procedures of 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:

- Keyboard and Heat Sink Plates
- CPU Module
- LCD Module
- HDD Module
- Top Case Module
- CD-ROM Module
- Motherboard Module

K / B & H / S

Keyboard and Heat Sink Plates

The illustration below shows how to remove the keyboard plate and the heat sink plate. Please note that the two plates should be removed in conjunction to prevent any unnecessary damages. **Please do not disassemble the two plates individually.**

K / B REMOVAL

Removing Keyboard Plate

1. Open the display panel.
2. Push the two latches in (no. 1) with a pair of tweezers or a single-slotted screwdriver and lift the keyboard plate up.

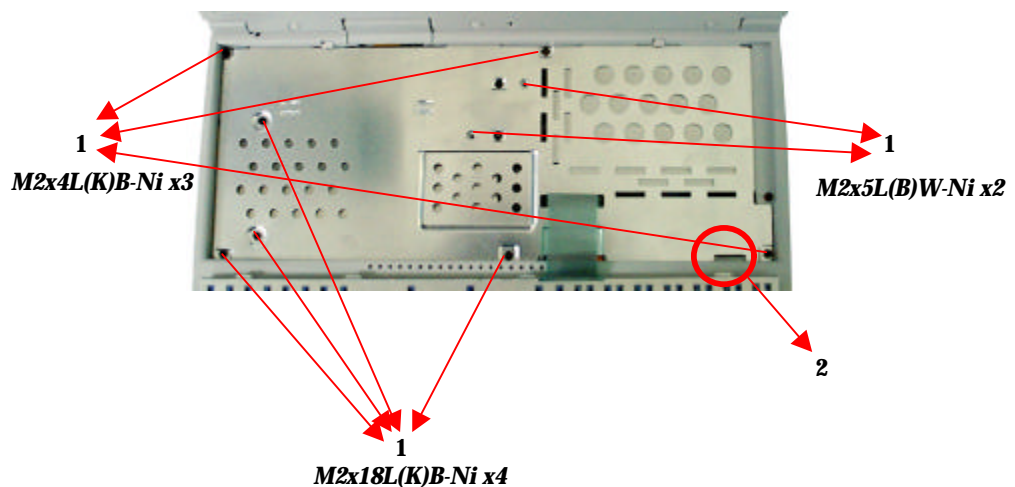


3. Lay the keyboard down over the TouchPad module. **Do not remove the keyboard yet.** The keyboard cable is still attached. It can be removed only after the heat sink plate is removed.

H / S REMOVAL

Removing Heat Sink Plate

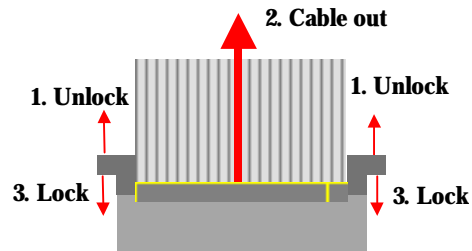
1. Remove 9 screws from the heat sink plate (no. 1).
2. Use a pair of tweezers to carefully pry the bottom edge of the heat sink plate up (no. 2) and flip it over onto the keyboard.



CABLE
REMOVAL

Removing Keyboard Cable

1. Use a single-slotted screwdriver to unlock the cable connector on both ends (no. 1).
2. Carefully pull out the keyboard cable (no. 2) with a pair of tweezers.
3. Lock the connector (no. 3) again to avoid possible breakage.
4. Finally the keyboard plate, along with the heat sink plate, can be removed from the notebook.



C P U

CPU Module

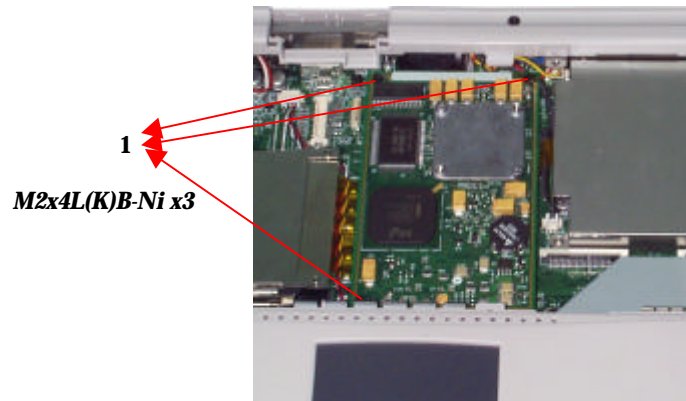
The illustrations below show how to remove the CPU module from the notebook.

Please do not disassemble the module.

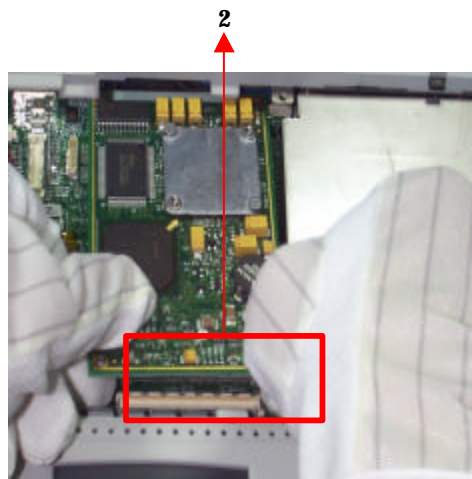
I M M
R E M O V A L

Removing IMM

1. Remove 3 screws that secure the IMM (no. 1).



2. Lift the IMM up with two hands to remove it from the motherboard. The connectors are at the bottom edge of the IMM (no. 2).



LCD

LCD Module

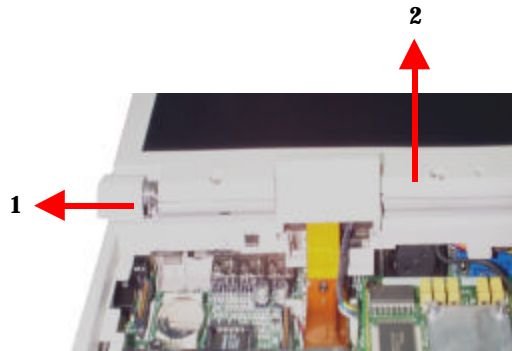
The illustrations below show how to remove and disassemble the LCD module. The module contains the LCD panel, side brackets, inverter, hinge feet and LCD case.

Please do not disassemble the individual parts.

LCD
REMOVAL

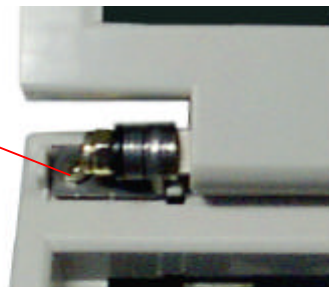
Removing LCD Module

1. With the display panel opened, remove the two hinge covers (one of each side, no. 1) by sliding them out with a single-slotted screwdriver.
2. Remove the LCD wire cover (no. 2) by pushing in and lifting up.

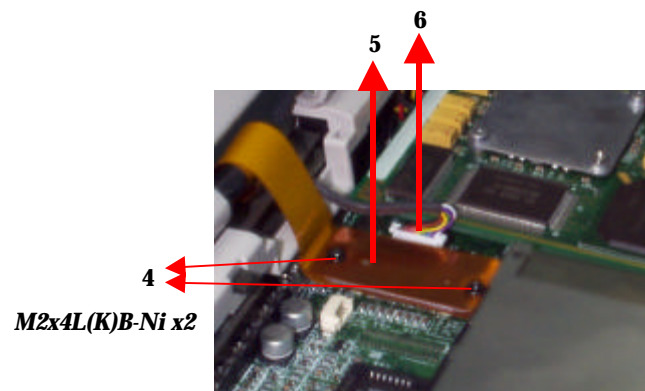


3. Remove 2 screws underneath the hinge covers (one of each side, no. 3).

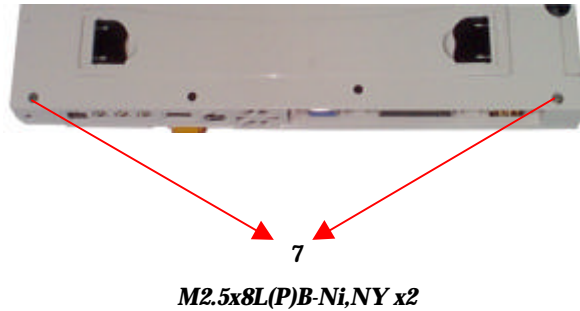
M2.5x8L(P)B-Ni,NY x2



4. Remove 2 screws (no. 4) that secure the LCD cable to disconnect the LCD cable (no. 5) and the inverter cable (no. 6) from the motherboard.



5. Remove 2 screws from the bottom of the notebook (no. 7).

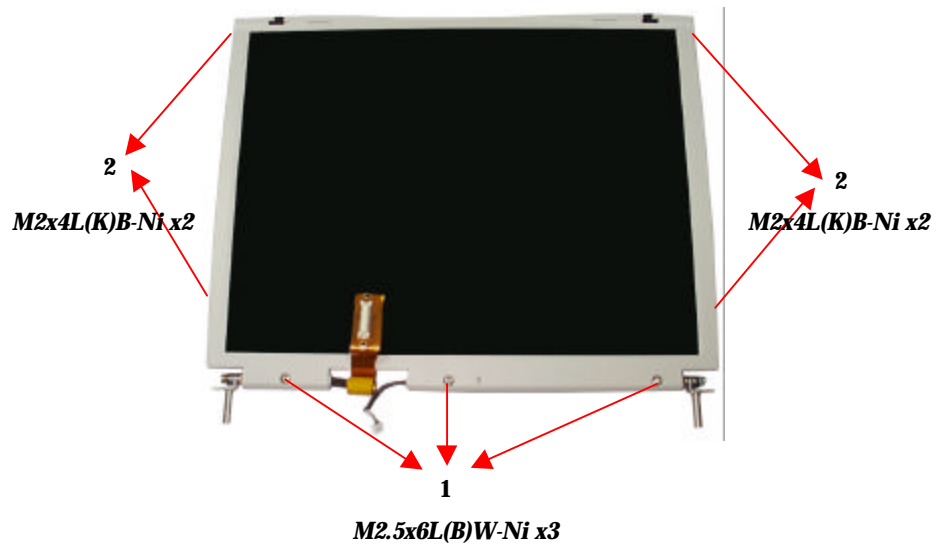


6. Lift the LCD module up and away from the notebook.

LCD DIS -
ASSEMBLY

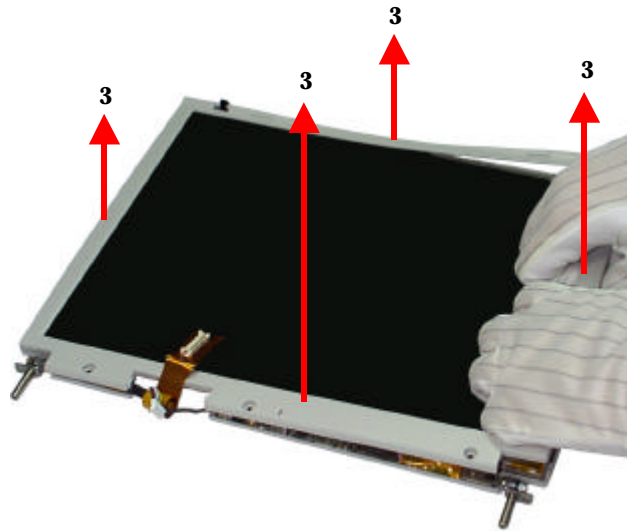
Disassembling LCD Module

1. Remove 3 rubber pads along the lower edge of the LCD module (no. 1) and 3 screws underneath them.
2. Remove a total of 4 screw pads and 4 screws underneath them on both left side and right side of the LCD module (no. 2).

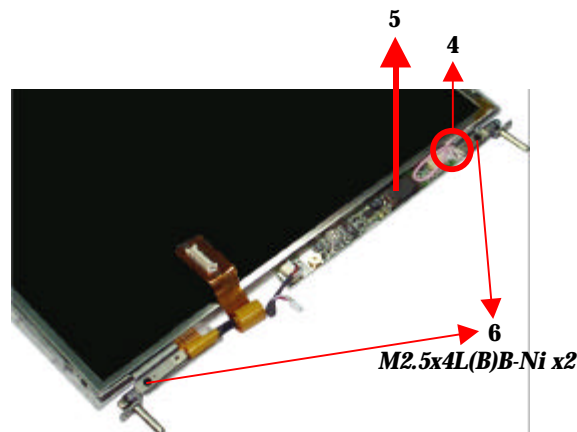


DISASSEMBLY PROCEDURE

3. Carefully pry the inside edges of the LCD case open on all four edges (no. 3) with your fingers.



4. Disconnect the inverter cable (no. 4) to remove the inverter (no. 5).
5. Remove 2 screws that secure the hinge feet (no. 6) and remove the hinge feet.



6. For 13.3" Samsung panels, remove the panel from the LCD case and remove 4 screws (*M2x4L(K)B-Ni x4*) on both sides to separate the side brackets from the panel. For 12.1" ADI panels, remove 4 screws (*M2.5x4L(K)B-Ni x4*) that secure the panel and the side brackets onto the LCD case to separate the panel and the brackets from the case.

HDD

HDD Module

The illustrations below show how to remove and disassemble the hard drive. The hard drive can be replaced with any industry-standard 2½" IDE HDD.

HDD
REMOVAL

Removing HDD

1. Remove 1 screw from the bottom of the notebook (no. 1) with a coin.



2. Pull the HDD out of the right side of the notebook (no. 2).

HDD DIS-
ASSEMBLY

Disassembling HDD

1. Remove a total of 4 screws on both sides of the HDD module (no. 1).
2. Separate the HDD shielding plate from the HDD.
3. Remove the HDD connector (no. 2).



TOP CASE

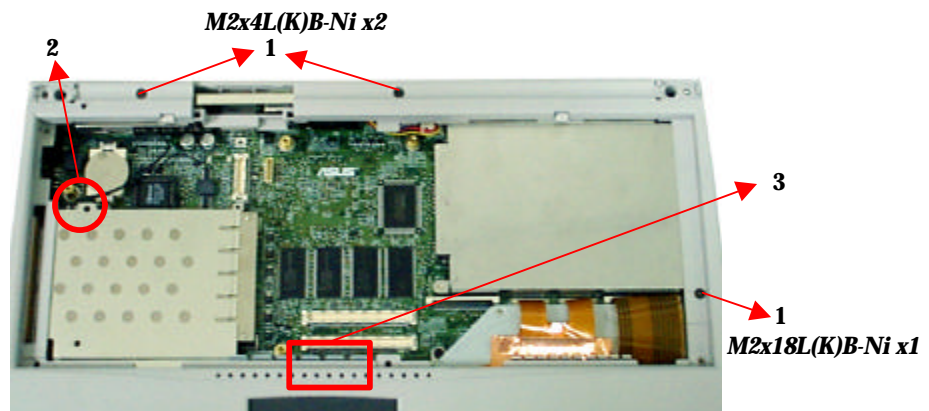
Top Case Module

The illustrations below show how to remove and disassemble the top case module of the notebook. The top case module contains the top case itself, the floppy disk drive and the TouchPad module. **Please do not disassemble the individual parts.**

TOP CASE
REMOVAL

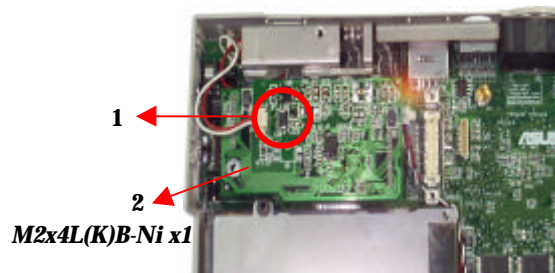
Removing Top Case Module

1. Remove 3 screws on the top side of the top case (no. 1).
2. Disconnect the lid switch cable (no. 2) and the TouchPad cable (no. 3, hidden under the top case) with a pair of pliers. **If there is a modem installed, please perform the procedure in the next section (Removing Modem Board) to remove the modem before handling the lid switch cable.**

MODEM
REMOVAL

Removing Modem Board (Optional)

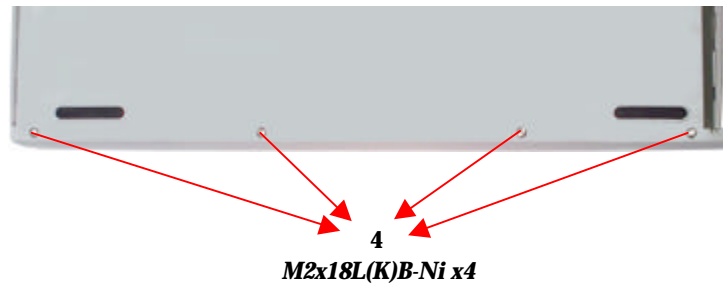
1. Disconnect the phone jack cable (no. 1). **Please note that the phone jack cannot be removed until the motherboard is removed.**
2. Remove 1 screw that secures the modem board (no. 2).
3. Lift the board away from the motherboard.



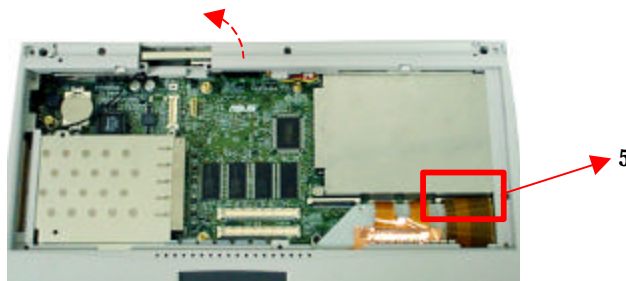
TOP CASE
REMOVAL
(CONT'D)

Removing Top Case Module (Cont'd)

3. Remove 4 screws from the bottom of the notebook (no. 4).



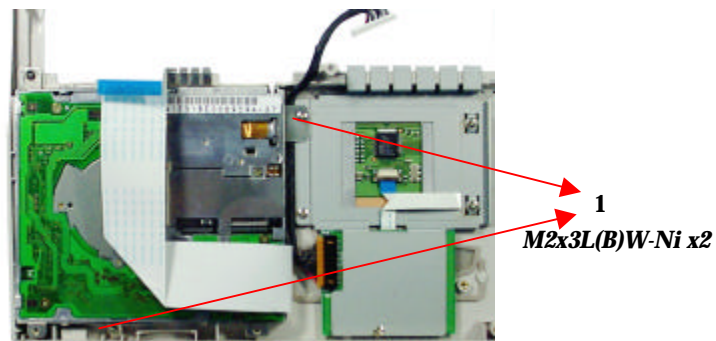
4. Lift the top case up a bit to remove the FDD flexible cable (no. 5) with a single-slotted screwdriver and/or a pair of tweezers.



FDD
REMOVAL

Removing FDD

1. Remove 2 screws from the bottom of the top case module (no. 1) that secure the FDD module.

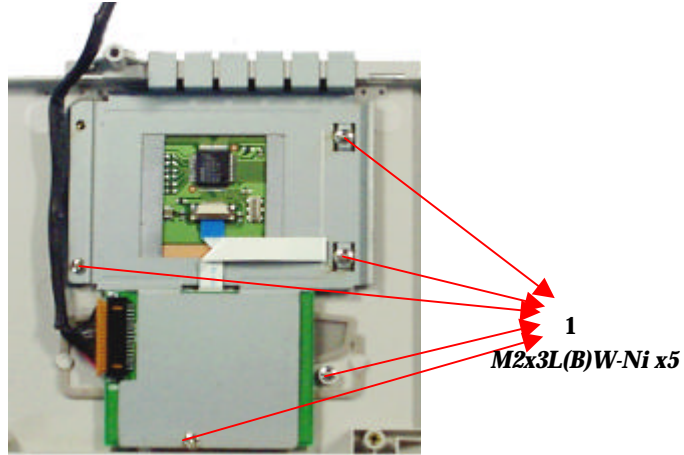


2. Remove the FDD module from the top case.
3. The FDD module can be disassembled by removing 4 screws (M2.5x3L(K)W-Ni x 4) on both sides of the module.

TOUCHPAD
REMOVAL

Removing TouchPad Module

1. Remove 5 screws from the bottom of the top case module (no. 1) that secure the pad and the switch board.



2. Remove the TouchPad module (pad and switch board) from the top case.
3. Disconnect the TouchPad FPC cable and the TouchPad and the switch board can be easily separated.

CD-ROM

CD-ROM Module

The illustration below shows how to remove the CD-ROM module. ***Please do not disassemble the CD-ROM drive.***

CD-ROM
REMOVAL

Removing CD-ROM Module

1. Remove 1 screw that secures the CD-ROM onto the motherboard (no. 1).

1
M2x4L(K)B-Ni x1



2. Remove 1 screw from the bottom of the notebook (no. 2).

2
M2x4L(K)B-Ni x1



3. Lift the CD-ROM drive from the motherboard. ***Do not pull the entire drive away as the flexible cable is still attached.***
4. Disconnect the CD-ROM flexible cable (no. 3) to remove the entire CD-ROM module from the system.

3



M / B

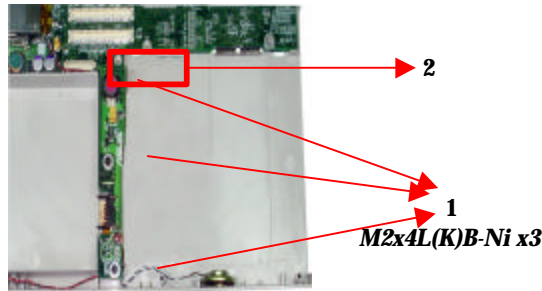
Motherboard Module

The illustrations below show how to remove and disassemble the motherboard module of the notebook. The module contains the motherboard itself, battery charge board, HDD bracket, I/O bracket, fan, speakers, optional modem board, PCMCIA box, BIOS chip, RTC battery, memory cover and memory module.

BATTERY
CHARGER
REMOVAL

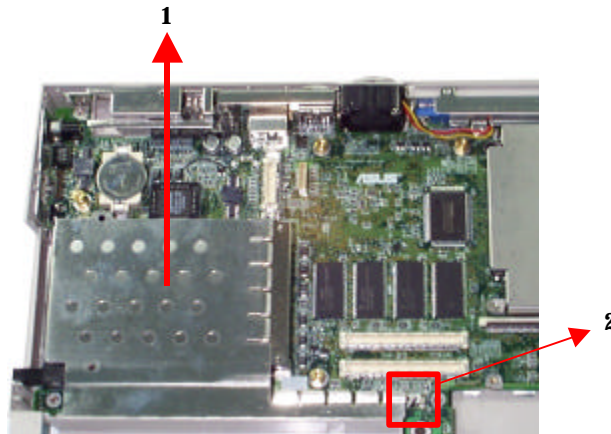
Removing Battery Charge Board

1. Remove 3 screws that secure the battery charge board (no. 1).
2. Lift the board away from the motherboard. The connector is at the top edge (no. 2) of the battery charge board.

PCMCIA
PLATE &
SPEAKER
REMOVAL

Removing PCMCIA Shielding Plate and Speakers

1. Remove the PCMCIA shielding plate (no. 1).
2. Disconnect the speaker cable (no. 2) with a pair of pliers and remove the speakers.

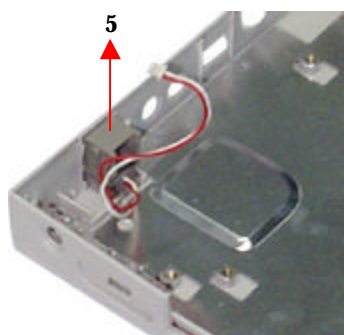
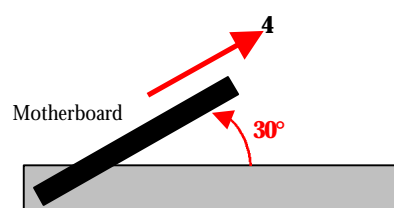
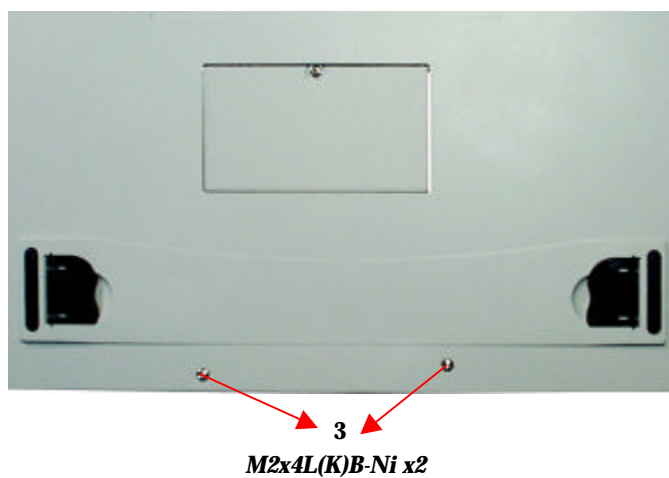
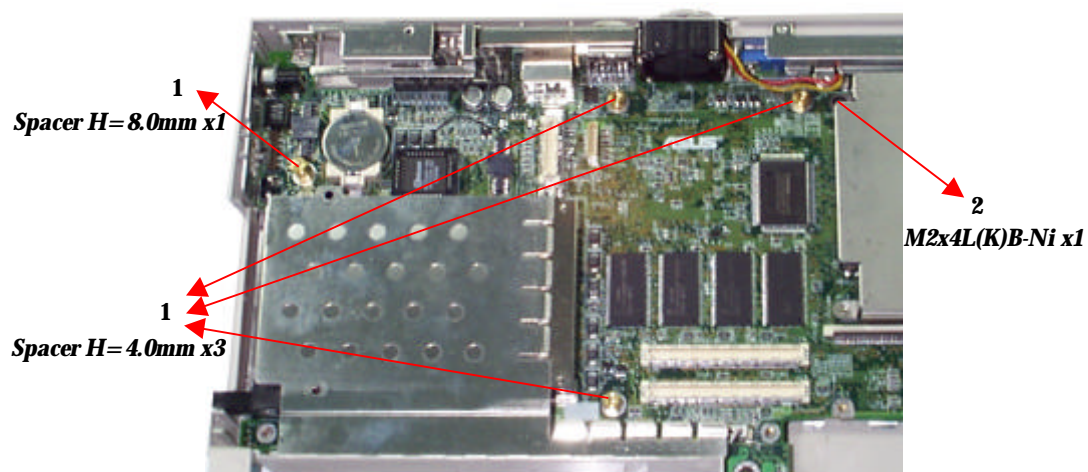


M / B REMOVAL

Removing Motherboard

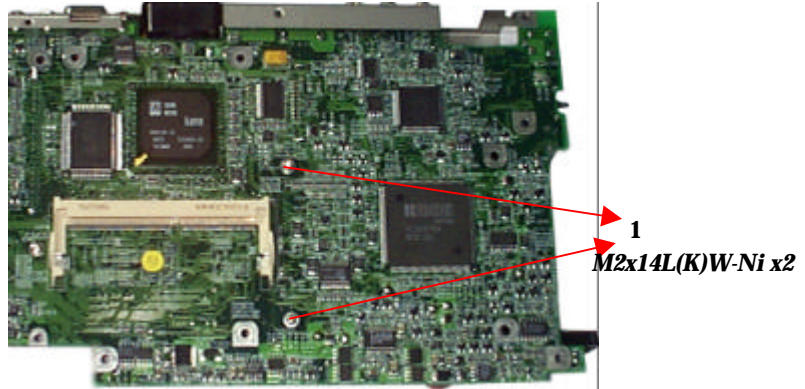
1. Remove 4 spacer screws (no. 1) with a spacer screwdriver and 1 screw near the HDD bracket (no. 2).
2. Remove 2 screws from the bottom of the notebook (no. 3).
3. Lift the motherboard up to a 30° angle and remove it from the bottom case (no. 4). If there is a phone jack installed, you may remove the phone jack (no. 5) also.

DISASSEMBLY PROCEDURE

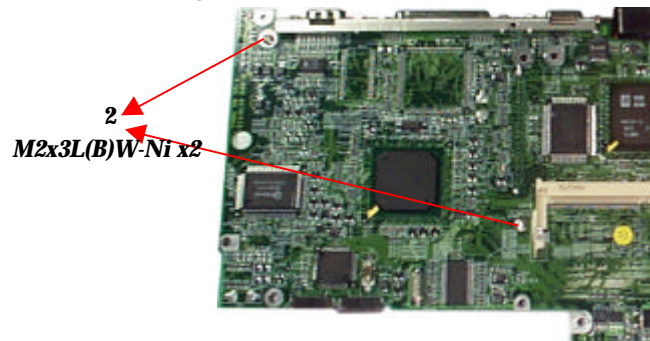


Disassembling Motherboard

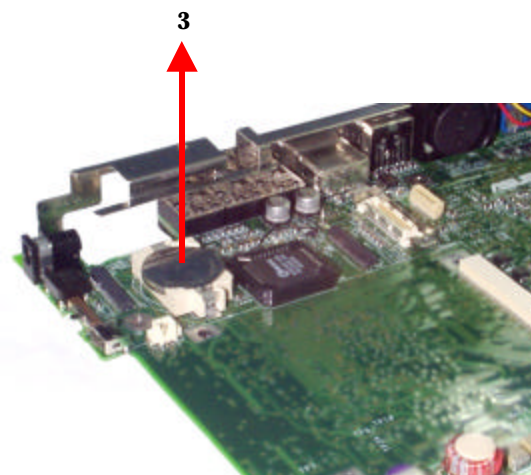
1. Remove 2 screws from the bottom of the motherboard (no. 1) that secure the PCMCIA box onto the motherboard.



2. Remove the PCMCIA box from the motherboard.
3. Remove 2 screws from the bottom of the motherboard (no. 2) that secure the HDD guide bracket onto the motherboard.
4. Remove the HDD guide bracket from the motherboard.

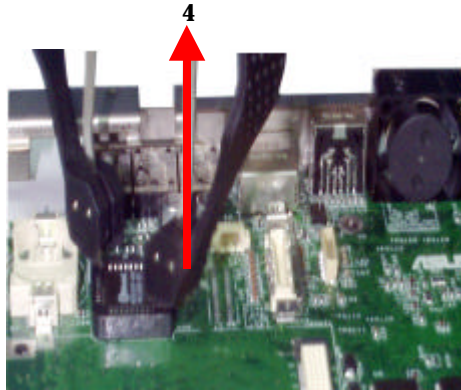


5. Pop up the RTC battery (no. 3) with a single-slotted screwdriver.



DISASSEMBLY PROCEDURE

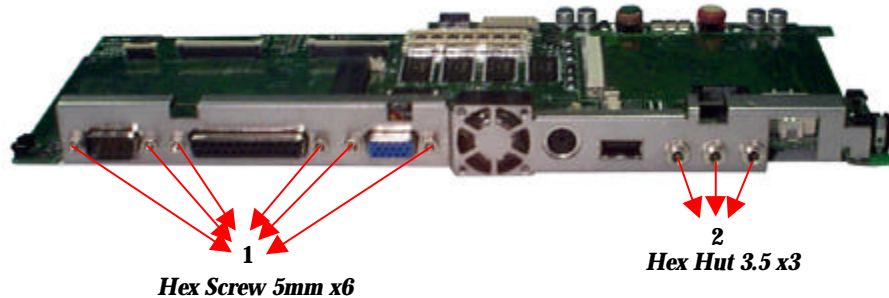
6. Use an IC-clamp to grasp the two corners of the BIOS chip and carefully pull it out of the socket (no. 4).



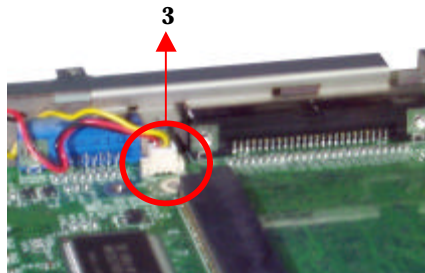
I/O BRACKET & FAN REMOVAL

Removing I/O Bracket and Fan

1. Remove 6 hex screws from the back of the motherboard (no. 1) with a spacer screwdriver.
2. Remove 3 caps for the audio jacks (no. 2) with a cap remover.



3. Disconnect the fan cable (no. 3).



4. Remove the I/O bracket from the motherboard.
5. Remove 2 screws on the I/O bracket (no. 4) to remove the fan.

