

Service Overview

Carefully read through this chapter for a look at various components of the notebook and necessary cautions and tools before performing any service and repairs.

To provide the best service and support for the ASUS L7000 Series, we have provided the below information for technicians from distributors and resellers to perform the complete notebook disassembly and assembly. But before performing the procedures, please be sure to read through the overview in this chapter for component overview, cautions and tools to avoid any unwarranted damages to the notebook's hardware.

The following chapter includes:

- L7000 Overview
- Components
- Precautions
- Appropriate Tools

L7000 Series Overview and Components

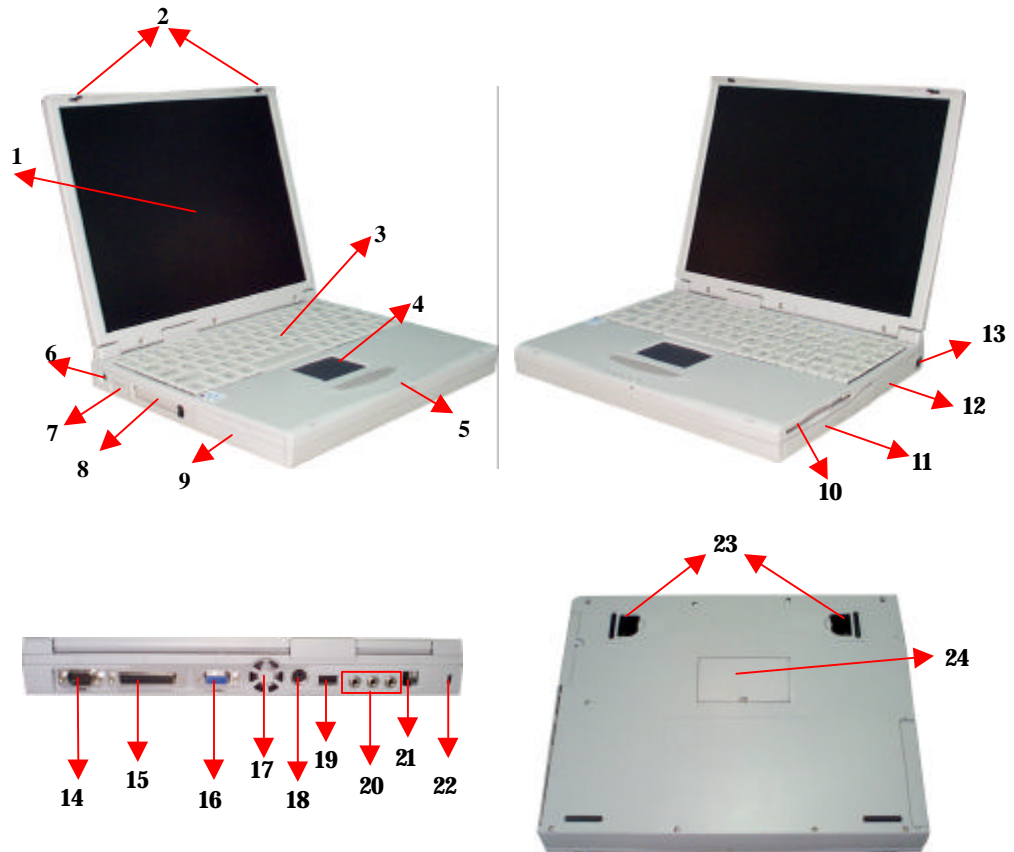
The ASUS L7000 Series Notebook is an all-in-one product, combining the power of Intel® Mobile Module (IMM) and a multimedia-integrated motherboard to form the top performance mobile system. In this section, an overview for the L7000, along with its components, will be presented.

OVERVIEW

L7000 Overview

The illustrations below show the notebook's overview from left front view, right front view, rear view and bottom view. Most of the parts will be discussed in this manual.

- | | | |
|----------------------|-----------------------|---------------------|
| 1. LCD display panel | 9. Battery bay | 17. Fan |
| 2. Latches | 10. Floppy disk drive | 18. PS/2 port |
| 3. Keyboard plate | 11. CD-ROM drive | 19. USB port |
| 4. TouchPad | 12. Hard disk drive | 20. Audio jacks |
| 5. LED indicators | 13. Infrared port | 21. Modem jack |
| 6. AC power | 14. Serial port | 22. Kensington lock |
| 7. Power-on switch | 15. Parallel port | 23. Raising feet |
| 8. PCMCIA sockets | 16. VGA output | 24. Memory socket |



COMPONENTS

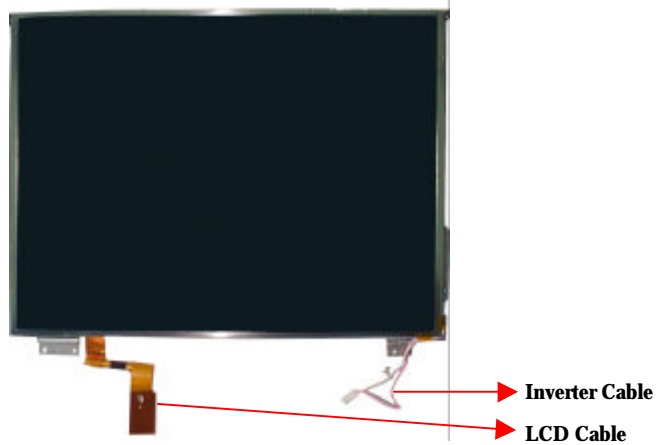
L C D

Components

The illustrations below show the components of the L7000 Series.

LCD Panel

The illustration below shows the LCD display panel. The L7000 Series notebook comes with 13.3" TFT or 12.1" TFT options.



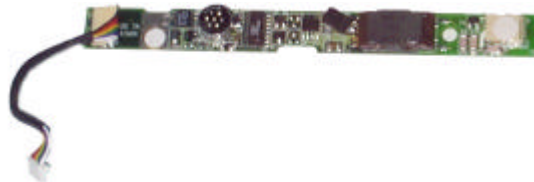
Inverter Cable

LCD Cable

I N V E R T E R

Inverter Board

The illustration below shows the inverter board, which is hidden underneath the lower edge of the LCD front cover.



H I N G E S

Hinge Feet

The illustration below shows the hinge feet that support the LCD module.



**H I N G E
C O V E R S**

Hinge Covers

The illustration below shows the hinge covers that conceal the LCD hinges.



LCD CASE

LCD Case

The illustration below shows the LCD case that encloses the LCD panel, inverter and hinge feet. This includes the front cover and bottom case.



**LCD WIRE
COVER**

LCD Wire Cover

The illustration below shows the LCD wire cover that protects the inverter cable and the LCD cable.



KEYBOARD

Keyboard Plate

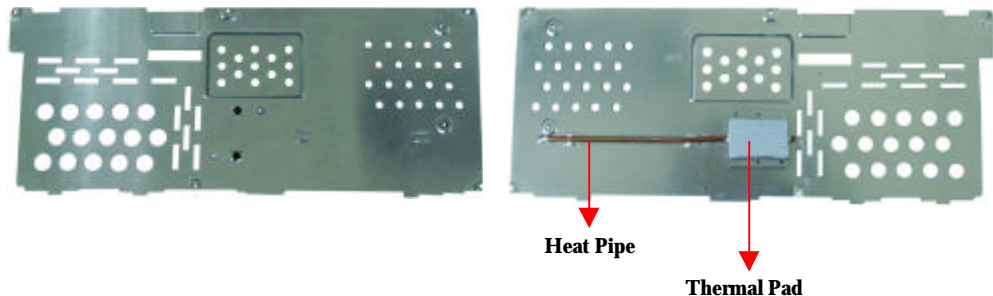
The illustration below shows the keyboard plate. It can be exchanged with keyboard plates with different language layouts, such as U.S., Taiwanese, Germany, Swedish, Italian, Russian, Japanese, Turkish, Czechoslovakian, British and others.



HEAT SINK

Heat Sink Plate

The illustrations below show the heat sink plate, front and back views. It uses a heat pipe and a thermal pad to dissipate heat from the CPU and the motherboard.



FDD

FDD Module

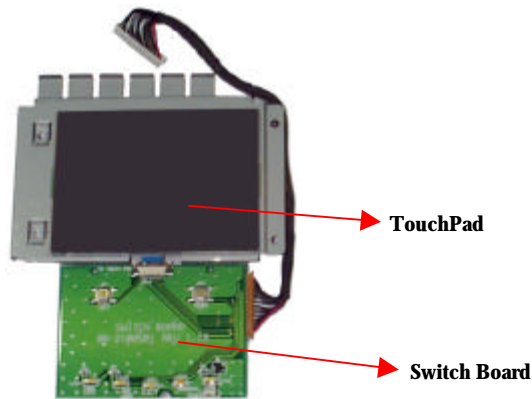
The illustration below shows the FDD module, which is hidden underneath the left side of the top case. The module includes the floppy drive, mounting bracket, and flexible cable.



TOUCHPAD

TouchPad Module

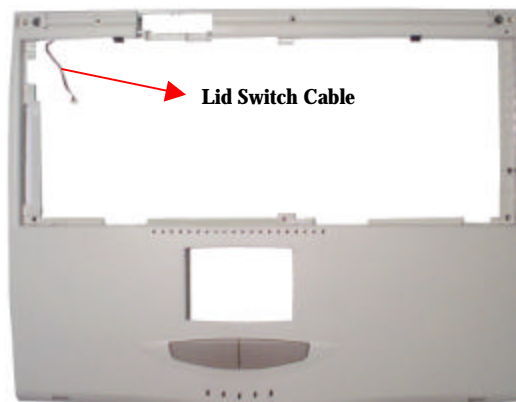
The illustration below shows the TouchPad module, which includes the TouchPad itself and the switch board.



TOP CASE

Top Case

The illustration below shows the top case of the notebook with the lid switch cable attached. The FDD module and the TouchPad module are located underneath the top case.



C D - R O M

CD-ROM Module

The illustration below shows the CD-ROM module. It contains the drive itself, the bezel assembly and the flexible cable.



C H A R G E R
B O A R D

Battery Charge Board

The illustration below shows the battery charge board, which is located between the battery pack and the CD-ROM drive on the motherboard.



B A T T E R Y

Battery Pack

The illustration below shows the battery pack of the notebook.



B A T T E R Y
H O L D E R

Battery Holder Cover

The illustration below shows the cover that holds the battery pack in the battery bay.



H D D

Hard Disk Drive

The illustration below shows the 2.5" industry-standard HDD.



HDD BEZEL

HDD Bezel

The illustration below shows the HDD bezel that secures the hard disk drive.



HDD PLATE

HDD Shielding Plate

The illustration below shows the HDD shielding plate that is placed underneath the HDD.



HDD
CONNECTOR

HDD Connector

The illustration below shows the HDD connector that connects the HDD to the motherboard.



CPU

IMM CPU Module

The illustration below shows the Intel Mobile Module, top and bottom views. It can be removed and/or upgraded after the heat sink is removed.



PCMCIA

PCMCIA Box

The illustration below shows the PCMCIA box, located on the left side of the motherboard.



HDD
BRACKET

HDD Bracket

The illustration below shows the HDD bracket, which is on the right hand side of the motherboard.



FAN

Fan

The illustration below shows the fan for the CPU. It is located inside the I/O bracket behind the motherboard.



I/O BRACKET

I/O Bracket

The illustration below shows the I/O bracket that secures the I/O ports on the back of the motherboard.



M O D E M

Modem Board

The illustration below shows the 56K modem board, along with the phone jack. This component is an option that you can purchase upon ordering the notebook. The opening on the back of the notebook for the phone jack will be covered if the modem is not opted.



R T C B A T T E R Y

RTC Battery

The illustration below shows the RTC battery that keeps the internal clock running. It is hidden underneath the modem board if installed.



B I O S

BIOS Chip

The illustration below shows the BIOS chip, located near the top edge of the motherboard next to the RTC battery.



S P E A K E R S

Speaker Set

The illustration below shows the speaker set of the notebook.



D I M M C O V E R

Memory Cover

The illustration below shows the memory cover that conceals the memory module at the bottom of the notebook.



M E M O R Y

Memory Module

The illustration below shows the industry-standard SO-DIMM SDRAM module for the notebook. It is installed at the bottom of the notebook.



M O T H E R -
B O A R D

Motherboard

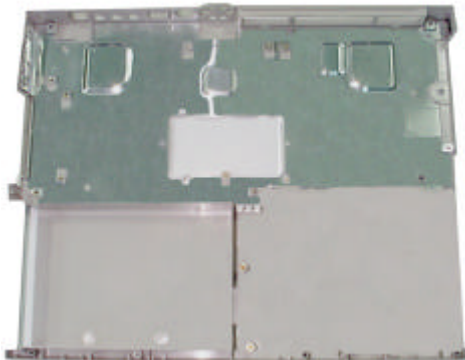
The illustration below shows the motherboard of the notebook.



B O T T O M
C A S E

Bottom Case

The illustration below shows the bottom case of the notebook.



Service Overview

Please pay special attention to the cautions below to prevent any damages to the notebook and also please be sure to select the appropriate tools described in this section to perform any services desired.

CAUTIONS

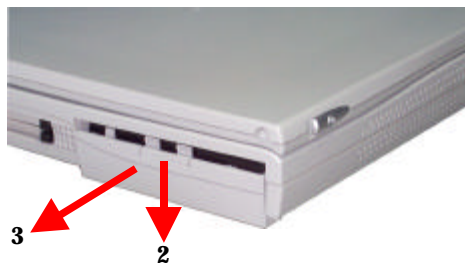
Precautions

Before you perform any service and/or repair on the notebook, please follow the steps below first.

1. Be sure that the notebook is powered down.
2. Disconnect the AC plug from the left side of the notebook (no.1 on the illustration below).



3. On the left side of the notebook, remove the battery pack by pulling down the battery holder cover (no. 2) for about ¼" and withdrawing the battery pack out of the bay (no. 3) with the holder attached. The holder can be later separated from the battery pack.



4. Remove all rings, watches and any other metal objects from your hand.
5. Always wear a ground strap on your hand to protect the notebook from static discharge.

TOOLS

Appropriate Tools

The illustrations below show the appropriate tools that should be used for the notebook's service and repair.

**CROSS
SCREW-
DRIVER**

Phillips-head Screwdriver

Use a Phillips-head screwdriver to fasten/remove the K- or B-typed screws.



**FLATHEAD
SCREW-
DRIVER &
TWEEZERS**

Single-Slotted Screwdriver and Tweezers

Use a single-slotted screwdriver to lock/unlock the flexible cable connector locks and a pair of tweezers to remove/insert flexible cables.



**SPACER
SCREW-
DRIVER**

Spacer Screwdriver

Use a spacer screwdriver to fasten/remove spacer screws or hex screws.



**CAP
REMOVER**

Cap Remover

Use this custom-made cap remover to remove the caps for the audio jacks.



PLIERS

Pliers

Use a pair of pliers to handle regular cables.



IC-CLAMP

IC-Clamp

Use an IC-clamp to remove the BIOS chip.

