

## Installation and Upgrade

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### 2.1 Overview

This chapter provides guidelines on installing the device drivers for the built-in features of the A985. Most of the driver installation procedures mentioned here are only for Windows XP and Windows 2000. This chapter also includes procedures on how to upgrade major internal system components like CPU, memory, hard disk, and feature card modules.

### 2.2 Notebook Drivers and Utilities

The notebook requires several device drivers that you need to install and setup before you can fully operate the notebook. These are:

- SiS 650 VGA Driver – Windows XP , Windows 2000
- Realtek PCI Audio controller Driver – Windows XP , Windows 2000
- Synaptics Touch Pad Driver – Windows XP , Windows 2000
- MDC Modem Driver – Windows XP , Windows 2000
- Realtek LAN Driver – Windows XP , Windows 2000
- EzButton Driver – Windows XP , Windows 2000
- SMSC FIR Driver – Windows XP , Windows 2000



Visit FIC Support website <FTP://FTP.PCG.FIC.COM.TW/NBTECH> latest driver updates.

#### 2.2.1 Installing Windows XP from Optical Devices

This section provides Windows XP installation guide from the Optical Devices (Such as CD-ROM or DVD-ROM device.)

##### Installing Windows XP from Optical Devices

To install Windows XP directly from your CD-ROM or DVD-ROM, please go to **Boot** menu of **BIOS** setup menu. Use arrow key to select "CD-ROM Drive", then use "+" or "-" to move it to the top. Go to **Exit** menu and select "**Exit Saving Changes**".

To install Windows XP directly from your CD-ROM or DVD-ROM, insert Windows XP installation CD into CD-ROM drive and boot on the notebook. Follows the screen instructions on the screen.

#### 2.2.2 Installing the VGA Device Driver

Your notebook computer uses the high-performance SiS 650 VGA controller, which is an AGP 4X video local bus, 2D/3D Graphic Engine. Following is the procedure for installing the VGA Driver for Windows XP:

##### Installing VGA Driver for Windows XP

Following is the procedure for installing the Video Accelerator 3D Adapter (English) VGA

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driver to your computer:

1. Click the **Start** button, and then point to **Run**. The Run dialog box appears.
2. Click the **Browse** button and specify the directory as.  
"E:\Drivers\WinXP\VGA\Setup.exe"
3. Implement the setup program to install this driver. The Welcome dialog box appears.
4. Click **Next** to process the further step continuously when screen displays this command.
5. Press **Finish** to restart your system.

## 2.2.3 Installing the Audio Device Driver for Windows XP

Your notebook computer uses Realtek Audio Controller.

1. Click the **Start** button, and then point to **Run**. The Run dialog box appears.
2. Click the **Browse** button and specify the directory as.  
"E:\Drivers\WinXP\Audio\Setup.exe" where the audio driver is located
3. Implement the setup program to install this driver. The Welcome dialog box appears.
4. Click **Next** to process the further step continuously when screen displays this command.
5. Press **Finish** to restart your system.

## 2.2.4 Installing EzButton Driver for Windows XP

Following is the procedure for installing the Internet, e-mail button and Audio DJ keys.

Installing EzButton driver for Windows XP

1. Boot WinXP from your hard disk and insert the disc containing the EzButton driver for WinXP.
2. Double-click on the System icon, Hardware and then click on the Device Manager folder tab.
3. Double-click Standard 101/102 key or Microsoft Natural PS/2 keyboard... and Select Update Driver
4. Select Install from a list of specific location (Advanced) and then click Next
5. Tick on "Include this location in the search". Then, click Browse button and navigate to the EzButton driver location as "E:\Drivers\WinXP\EzButton". Click Next to begin searching the driver.
6. The Add New Hardware will found Keyboard en3886... Click Next to continue the driver installation.
7. Click Finish button to finish installing EzButton driver.

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8. Click Yes to restart the computer

## 2.2.5 Installing Easy Mail Light Driver for Microsoft Outlook 98/2000...

1. Installing Easy Mail Light driver for Windows XP
2. Boot Windows from your hard disk and insert the disc containing the Easy Mail Light button driver.
3. Click the Start button, then click Run. In the Run dialog box, click Browse button and navigate to the directory as "E:\Drivers\WinXP\EzMail\EzMail.exe"
4. Run the execution file for installing the EzMail driver, and then click Finish after complete the installing procedure.

## 2.2.6 Installing Touch Pad Driver for Windows XP

Following is the procedure for installing Synaptics touch pad driver.

1. Click the **Start** button, and then point to **Run** to appear the Run dialog box.
2. Click the **Browse** button to specify the directory as "E:\Drivers\WinXP\Touch Pad\Setup.exe"
3. Execute the setup program and then the **Welcome** dialog box appears.
4. Select the language version that you want to install and then click "**OK**" to continue.
5. Click **Next** button several times.
6. Click **Finish** to restart your system.

## 2.2.7 Installing the Internal Modem for Windows XP

Your notebook computer may come with an optional internal modem. The internal modem is a 56Kps V.90 Askey Data Fax modem.

### Installing Internal Modem for Windows XP

1. Boot Windows from your hard disk and insert the disc containing the Modem driver for Windows.
2. Click the **Start** button and then click **Run**. In the Run dialog box, click **Browse** button and navigate to the directory as "E:\Drivers\WinXP\modem\setup.exe" where the modem driver is located.

The system may prompt you the message to restart the computer to finish the installation

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## 2.3 System Upgrades

This section provides an easy step in doing system upgrades for your notebook computer.

### 2.3.1 Jumper Settings

This section provides a jumper setting lists of configuring the notebook.

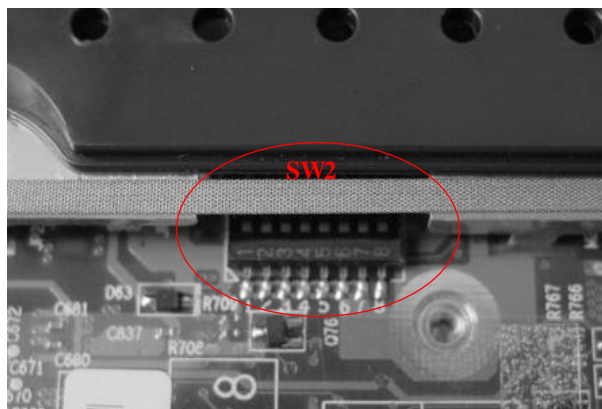


Figure 2-1 Switch 2 Jumper Setting

#### Keyboard Type Select ( SW2 )

K/B Type	Pos #1	POS #2
US KEYBOARD	OFF	OFF
RESERVE	OFF	ON
JP KEYBOARD	ON	OFF
UK KEYBOARD	ON	ON

#### Logo Select ( SW2 )

Logo	Pos #3
RESERVE	OFF
RESERVE	ON

#### Password Override ( CMOS / RTC Data ) Jumper Setting

Password Override	Pos#4
Password Normal	OFF
Clear Password	ON

**i** Before doing password override, take off AC adapter and battery first.

#### Main Board ID Select

Main Board ID	Pos #5	POS #6
Reserved	OFF	OFF

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Reserved	OFF	ON
Reserved	ON	OFF
Reserved	ON	ON

## CD- ROM

CSEL	Pos #7
Master	OFF
Slave	ON

## CMOS Clear Select

CD-ROM	Pos #8
Normal	OFF
Clear CMOS	ON

## 2.3.2 CPU Upgrade Procedure

The A985 features Intel Pentium 4 SFF Processors. It is located on the middle-left side of the system motherboard.

### How to Access the CPU Socket

To install or replace the CPU, follow the steps below:

1. Turn off the system and remove both AC adapter and the battery pack from the notebook unit.
2. Remove keyboard cover by gently bending it and sliding it towards in front of you.

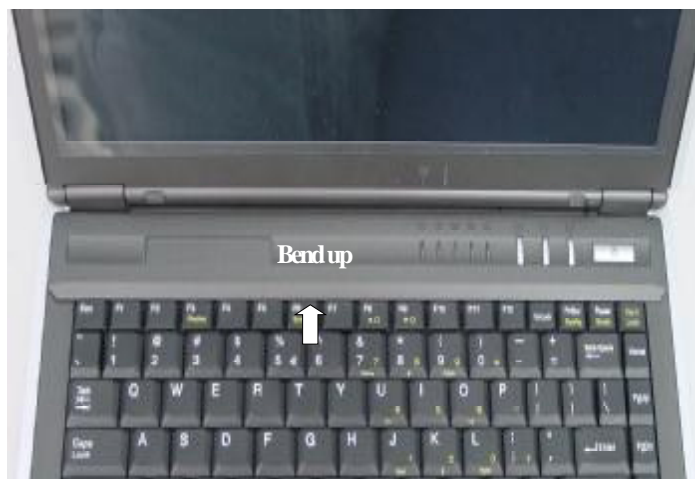
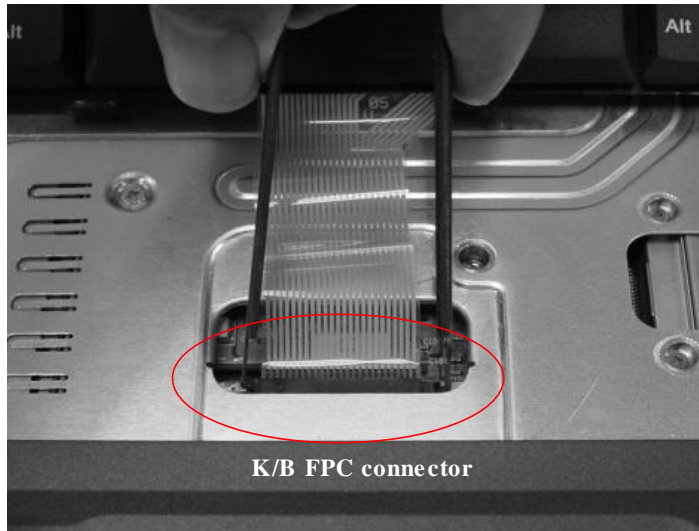


Figure 2-2 Remove keyboard cover

3. Release keyboard cable by sliding the ZIF connector towards upward direction.

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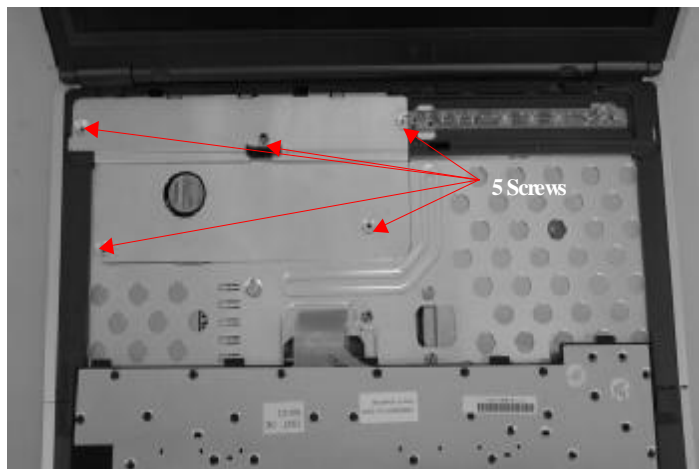
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**Figure 2-3** Release Keyboard Latch

### 2.3.3 Removing the Thermal Plate and Cooling Fan

1. Release five screws as shown in the picture below, and then remove Cover Plate by slightly lifting it up.

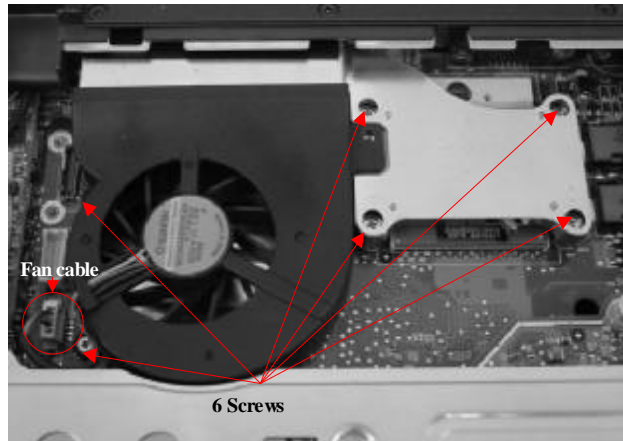


**Figure 2-4** Remove the Cover Plate

2. Before removing the cooling fan, you need to disassemble six of screws.

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**Figure 2-5 Remove the Cooling Fan**

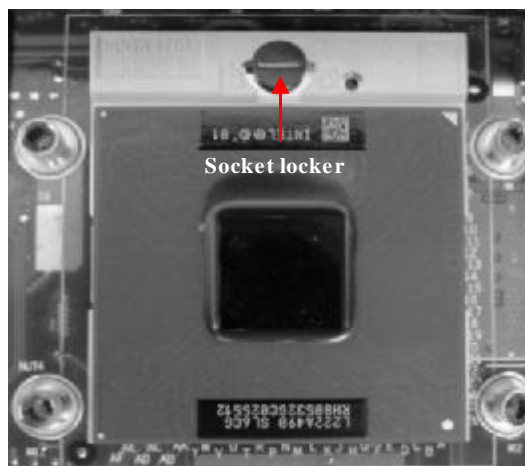
3. Release six screws as shown in the picture above, and then remove cooling fan module by slightly lifting it up.

## 2.3.4 Removing the CPU

The A985 features Intel Pentium 4 SFF uFCPGA Processors. It is located on the upper left side of the system motherboard.

To install or replace the CPU, follow the steps below:

1. Before removing the CPU module, you need first to disassemble keyboard and heat sink plate.
2. Using a flat screwdriver, turn the socket lock counter-clockwise direction to unlock CPU from the socket.



**Figure 2-6 CPU Assembly**

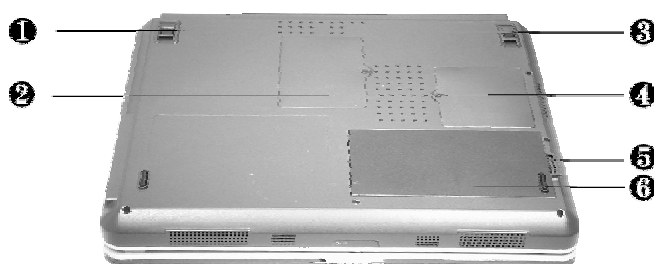
3. Remove CPU and insert the preferred CPU.

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4. Using a flat screwdriver, turn the socket lock clockwise direction to lock CPU onto the socket.

## 2.3.5 Memory Upgrade Procedure

The notebook computer offers two 64-bit memory slot using 144-pin SODIMM (Small Outline Dual Inline Memory Module) at 128 / 256 / 512MB DDRRAM. Two memory slots are found inside the memory compartment. The memory compartment is located on the underside of your computer inside the memory compartment. The notebook has no memory on-board so you should have at least one SODIMM module inserted.



With two memory slots, you can have several combinations up to 1024MB.

⌘	Tilt Foot	•	Mini-PCI Socket Compartment
⌘	Tilt Foot	•	<b>Memory Compartment</b>
•	Battery Release Latch	,	Battery Compartment

**Figure 2-7 Memory Compartment Door**

### Using the Memory Slot inside the Memory Compartment

Follow the steps below on how to upgrade the memory modules:

1. Make sure the system is powered off and that no peripheral devices are attached.
2. Turn the system over and locate the screw on the memory compartment.
3. Remove the screw and open the memory compartment. Locate the alignment notch on the module.
4. Locate the memory module socket. Align the notch with the notch in the socket connector and insert the module as follows:
  - Hold the SODIMM at a 60-degree angle and align the SODIMM connector with the socket in the system. Push the connector into the socket.
  - Press down on the edge of the SODIMM until the locking tabs on the sides snap into place, securing the module.



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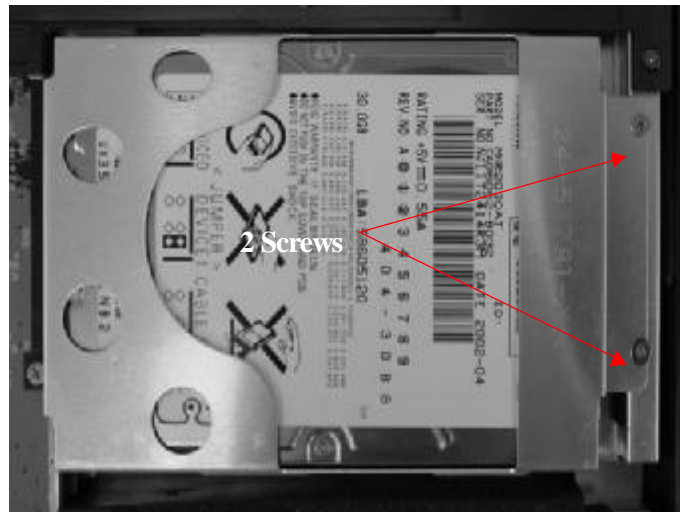
**Figure 2-8**      **Insert Memory Module**

5. To remove a SODIMM, press the locking tabs away from the sides of the module until the module pops up. Then, remove the SODIMM.
6. Reassemble the notebook components as follows.
  - Put the DIMM door back.
  - Replace the screw and turn the system over.

## 2.3.6 Removing the Internal Hard Disk Drive

The notebook provides a built-in hard disk for the primary IDE controller. The HDD is an industry standard 2.5" IDE disk drive with a maximum height of 9.5mm, and can be upgraded with another standard 2.5" HDD with a maximum height of 9.5mm.

1. Find out the built-in hard disk secured with two screws at the right corner of the hard disk. Remove this screw and carefully pull the hard disk module from the connector.



**Figure 2-9**      **Remove Two Screws Securing HDD**

2. Remove four screws of frame HDD bracket plate. Two small ones of them are at the front side, and others are at the both sides

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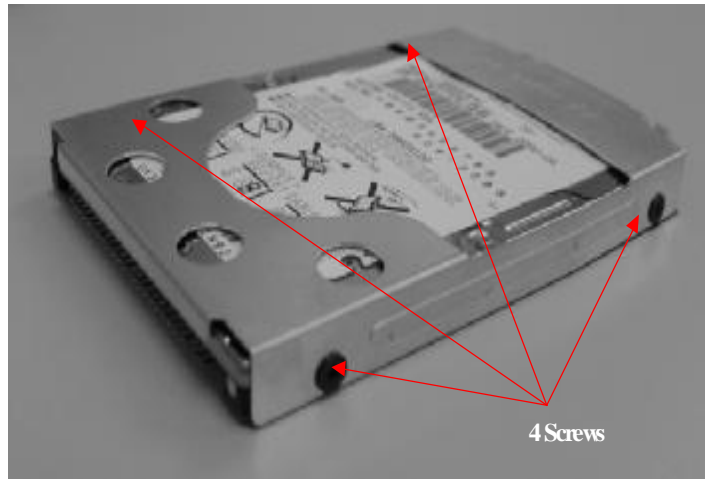


Figure 2-10 Screws Locations of the frame HDD bracket plate

## 2.3.7 System BIOS Upgrade Procedure

The notebook supports EPROM Flash BIOS that allows you to easily update the system BIOS using the Phoenix BIOS Flash utility program called “**PHLASH.COM**”. This program runs under MS-DOS and requires the system not to load high memory like **HIMEM.SYS**. It also needs the “**PLATFORM.BIN**” file in order to activate.

Follow the steps below on how to update the system BIOS:

1. Prepare a clean bootable diskette without loading the HIMEM.SYS. Copy the files **PHLASH.COM** and **PLATFORM.BIN** into the diskette along with the BIOS ROM file.
2. Restart the computer and boot from the diskette. At the DOS prompt, type the command “**PHLASH <BIOSfile.ROM>**” to activate Flash BIOS programming utility. The computer will then start to update the system BIOS inside the notebook.
3. After programming is complete, the system will prompt you to press any key to shutdown the computer. The BIOS version is displayed inside the BIOS Setup Main menu. Press <F2> after power on to run CMOS Setup program.

**BIOS Version: 1.0A-0716-0724**

**i**

It is very important not to power off the system whenever the FLASH BIOS program is running. Otherwise, the system may not be able to power on and you need to replace the BIOS EPROM chip from another working notebook.

**i**

Always plug in the AC adapter when updating the BIOS.