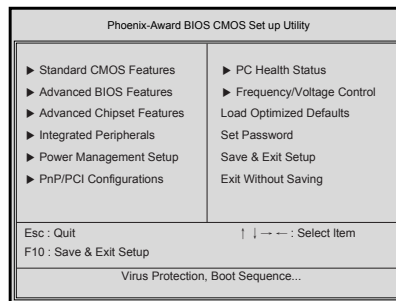## ● **Hard disk drive setup**

1 Turn on the computer and monitor.

2 Press **[Delete]**key when the logo screen appears.
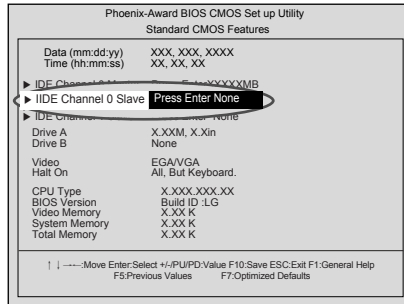

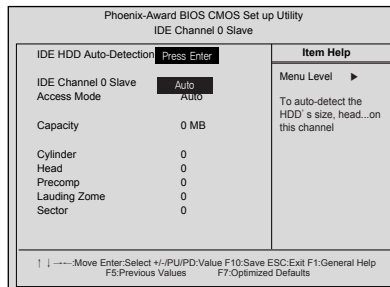**3** The CMOS Setup Utility opens.

Phoenix-Award BIOS CMOS Set up Utility

▶ Standard CMOS Features	▶ PC Health Status
▶ Advanced BIOS Features	▶ Frequency/Voltage Control
▶ Advanced Chipset Features	Load Optimized Defaults
▶ Integrated Peripherals	Set Password
▶ Power Management Setup	Save & Exit Setup
▶ PnP/PCI Configurations	Exit Without Saving

Esc : Quit   ↑ ↓ → ← : Select Item
F10 : Save & Exit Setup

Virus Protection, Boot Sequence...

4 Use arrow [↑],[↓],[←], and [→] keys to select **Standard CMOS Features**, and press **[Enter]**.

Use arrow [↑],[↓],[←], and [→] keys to select **IDE Channel 0 Slave**, and press **[Enter]**.

5 Use arrow [↑],[↓],[←], and [→] keys to select **IDE Channel 0 Slave**, and press **[Enter]**.

```
              Phoenix-Award BIOS CMOS Set up Utility
                    Standard CMOS Features
   Data (mm:dd:yy)      XXX, XXX, XXXX
   Time (hh:mm:ss)      XX, XX, XX
 ▶ IDE Channel 0 Master          Enter XXXXMB
 ▶ IIDE Channel 0 Slave   Press Enter None
 ▶ IDE Channel            er None
   Drive A               X.XXM, X.Xin
   Drive B               None
   Video                 EGA/VGA
   Halt On               All, But Keyboard.
   CPU Type              X.XXX.XXX.XX
   BIOS Version          Build ID :LG
   Video Memory          X.XX K
   System Memory         X.XX K
   Total Memory          X.XX K
  ↑ ↓ →←-:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
            F5:Previous Values      F7:Optimized Defaults
```

6 After setting **IDE Channel 0 Slave** to **Auto** by pressing **[Enter]**, press **[Enter]** in **IDE HDD Auto-Detection** so the system automatically recognizes the newly installed slave hard disk drive.

```
              Phoenix-Award BIOS CMOS Set up Utility
                    IDE Channel 0 Slave
   IDE HDD Auto-Detection  Press Enter          Item Help
                                            Menu Level    ▶
   IDE Channel 0 Slave       Auto
   Access Mode               Auto           To auto-detect the
                                            HDD`s size, head...on
   Capacity                  0 MB           this channel
   Cylinder                  0
   Head                      0
   Precomp                   0
   Lauding Zome              0
   Sector                    0
  ↑ ↓ →←-:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
            F5:Previous Values      F7:Optimized Defaults
```

7 Press **[F10]** to save the new setting.

8 If the following message appears, press **[Enter]**. The computer restarts.

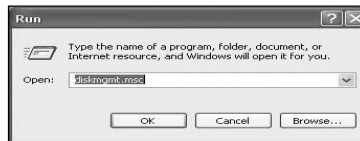```
SAVE to CMOS and EXIT(Y/N)? Y
```

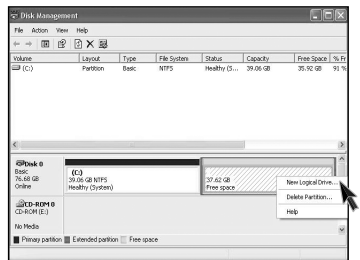## ⬤ Hard disk setup (Hard disk with factory default setting)

### ⚠️ Caution

Be careful, Using <diskmgmt.msc> to divide partition delete data in a selected driver.

**1** Click **[Start]** and **[Run]**.

**2** Type '**diskmgmt.msc**' and press **[OK]**.
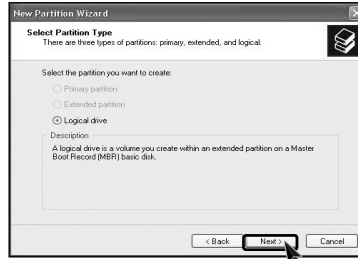


**3** If the following window appears, select disk1. Click right button on the mouse to select New partition.
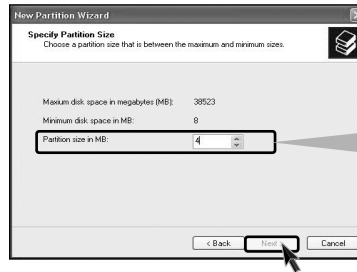


**4** Click **[Next]** if the following message appears.
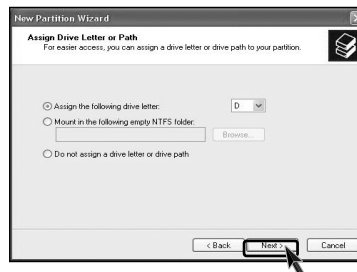
**5** Select a partition and click **[Next]**.

**6** Select the maximum size and click **[Next]**.

A selected space of the disk will be available to use.
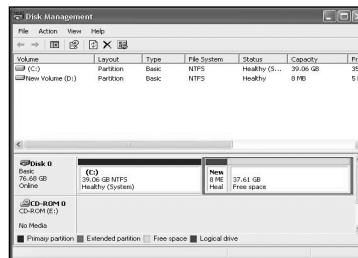
**7** Click **[Next]** after selecting a drive value.

8 If the following window appears, select File system, Allocation unit size and Volume label ,and click **[Next]**.
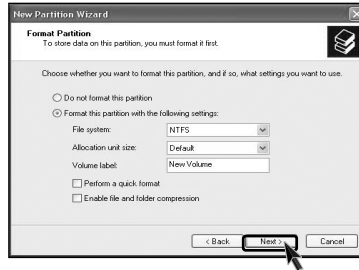
9 New Partition Wizard is complete, click **[Finish]**.
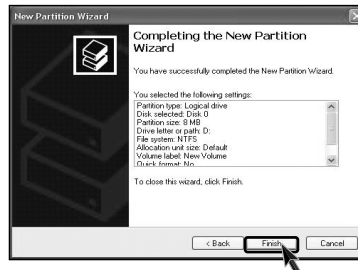
10 After the format is complete, the hard disk operates normally.

# 6-6. Installing expansion cards

When you are using the computer, you may need to install expansion cards to improve funtionality. The following instruction describes how to install expansion cards.
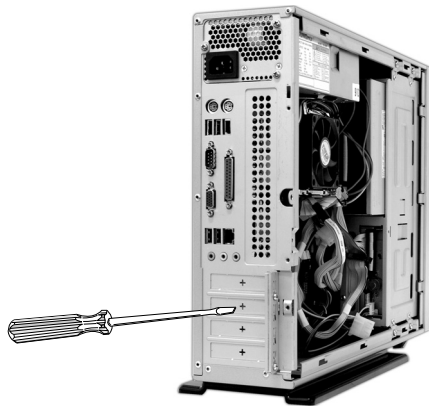
**1** Refer to Opening the computer case to open the computer case cover.

**2** Remove the capas shown on the picture.
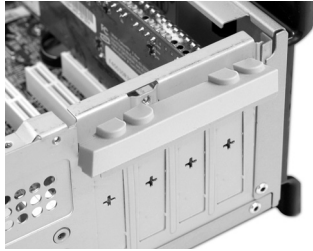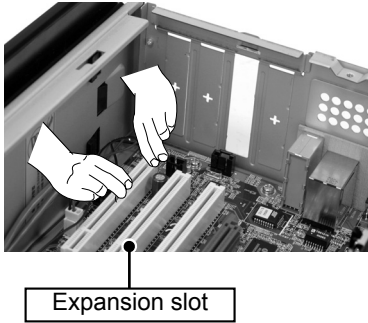
**3** Remove 2 screws as shown on the picture.
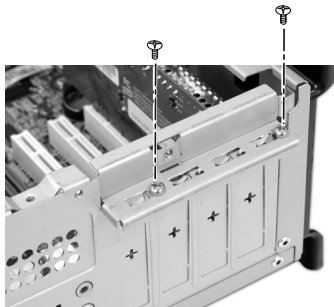


**4** Use the driver and remove the metal slot cover.
(Remove it, only when installing an additional extension card.)

**5** Hold the expansion card with both hands and align the expansion card and slot. Push down evenly to insert the card into the slot.



Expansion slot

⚠ **Caution**

■ Incorrect installation of an expansion card may damage the main board and result in a computer malfunction.

**6** Fasten a screw after installing a metal bracket.



metal bracket
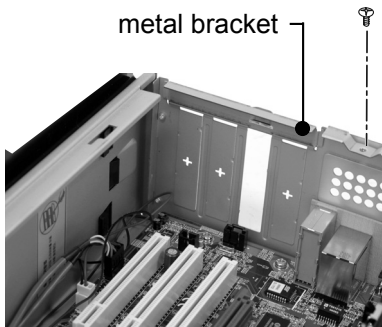
⚠ **Warning**

■ Using the computer without closing the case may result in fire, electric shock, injury, and/or damage to the computer.

**7** Close the cap in the same position as you removed it.



**8** Refer to Closing the computer case to close the case cover of the computer.

**9** Install the driver program for the new expansion card.

# Specifications *EG/EM model

※ **Specifications below differ depending on the models.**

| | |
|---|---|
| CPU | Intel Pentium 4 / Celeron mPGA478 type (2.4GHz or above) |
| System memory | 256MB (up to 2.0 GB) - If built-in VGA is used, maximum 16MB and minimum 1MB is applied for Video Frame buffer in DOS Mode, but Windows Mode automatically manages the video memory (up to 96MB depending on System Memory size). |
| Cache memory | L1: 8KB/16KB or above, L2: 128KB/256KB/512KB/1024KB or above. |
| Hard disk drive | 40GB or above (E-IDE type) |
| Floppy disk driver | One 3.5inch 1.44MB drive |
| Keyboard | PS/2 keyboard (104keys) |
| Mouse | PS/2 mouse or USB (ball / wheel) |
| Video | Integrated or external AGP graphic |
| Sound | Built-in AC'97 audio. Support MIC-IN, SPEAKER-OUT and LINE-IN.(Support virtual 5.1 channel output) |
| LAN | Integrated 10/100Base-T Ethernet |
| USB | 6ports (support USB 2.0) |
| Serial I/O | One RS-232C (9pins) |
| Front I/O | Two USB ports and audio ports (SPEAKER-OUT and MIC-IN) |
| Parallel I/O | One printer port (25pins) |
| IEEE1394 | One IEEE1394(EG), Not installed(EM) |
| Extension slot | Three PCI slots, one AGP(EG only) slot and four memory DIMM slots |
| Product size | Width 100 x Height 345 x depth 421.5(mm). |
| Cable | Power cable length 1.8m |
| Power spec | 100~127 / 200~240VAC, 5A / 4A, 50/60Hz or 200~240VAC. 4A, 50/60Hz |
| Environmental requirement | Temperature:Average temperature:77℉(25℃) Operating temperature:41℉~95℉ (5~35℃) Storage temperature:-4℉~131℉(-25~55℃)/Humidity:Average humidity:60%(RH) Operating humidity:30%~80%(RH)/Storage humidity:30%~80%(RH) |

---NOTE ----------------------------------------------------------------

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to pro-vide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radi-ate radio frequency energy and, if not in-stalled and used in accordance with the in-structions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equip-ment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the fol-lowing measures:
-. Reorient or relocate the receiving antenna.
-. Increase the separation between the equip-ment and receiver.
-. Connect the equipment into an outlet on a circuit different from that to which the re-ceiver is connected.
-. Consult the dealer or an experienced radio/TV technician for help.

Caution

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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memo

memo