

■ Basic menu screen on each mode.

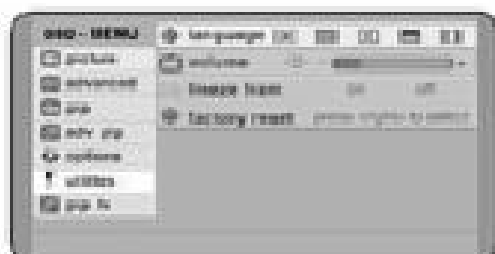


**Figure 7.** Basic menu screen when using PC monitor

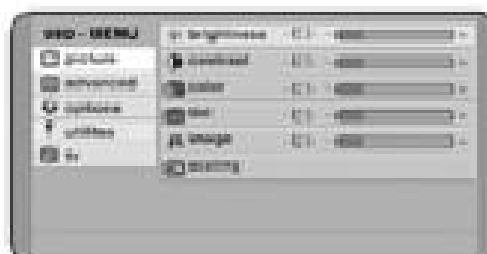


**Figure 8.** Basic menu screen when using TV

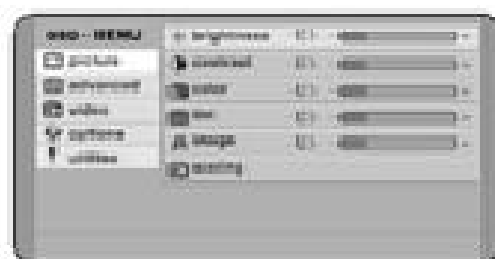


**Figure 9.** Basic menu screen when using VIDEO 1 (COMPOSITE/MOTÉ)

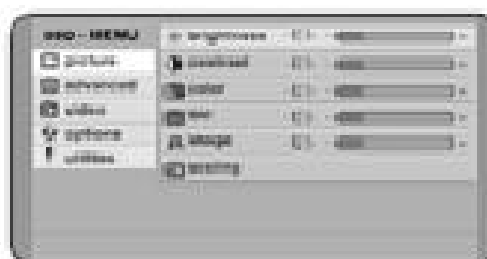


**Figure 10.** Basic menu screen when using VIDEO 2 (S-YHS)



## Descriptions for OSD Control Screen

### ■ Descriptions for each control item of OSD control screen

#### 1. Menus when using PC monitor



##### Picture

- ▷ **Brightness** : Adjust the degree of screen brightness. Value range is from 0 to 100.
- ▷ **Contrast** : Adjust the color contrast of screen. Value range is from 0 to 100.
- ▷ **Horizontal position** : Moves entire screen to left or right direction.
- ▷ **Vertical position** : Moves entire screen to upper or lower direction.
- ▷ **Phase** : Adjust screen finely as much as you cannot easily see the difference.
- ▷ **Clock** : Controls horizontal size of the full screen.
- ▷ **Scaling** : Resizes the input screen image and displays it.



##### Advanced

- ▷ **Sharpness** : Adjust the screen image to sharp or smooth.
- ▷ **Gamma** : Adjust the color coordinates.
- ▷ **Color Temperature** : Adjust the color temperature as much as you cannot easily see the difference. (When selecting the user, you can change the value of red, green, and blue separately.)



##### PIP

- ▷ **Size** : Adjust the size of screen piped.
- ▷ **PIP Position** : Changes PIP screen location to pre-specified 9 points on window.
- ▷ **Source** : Changes the input format, which you want to see, on PIP screen.
- ▷ **Brightness** : Adjust the degree of screen brightness. Value range is from 0 to 100.
- ▷ **Contrast** : Adjust the color contrast of screen. Value range is from 0 to 100.
- ▷ **Color** : Adjust dark and light degree of color. Value range is from 0 to 100. If this is 0, screen gets black and white, and if 100, screen gets color saturated.
- ▷ **Tint** : Changes the color tone of video input image.
- ▷ **Sharpness** : Controls the screen image to sharp or smooth.



### ADY PIP

- ▷ **Horizontal Position** : Moves PIP screen to the left/right direction by using volume button.
- ▷ **Vertical Position** : Moves PIP screen to the upper/lower direction by using volume button.
- ▷ **Video Format** : Determine the input video type. (AUTO, NTSC, PAL, and SECAM)
- ▷ **Video Type** : Determine options the video type. (DYP, and YCR)



### Options

- ▷ **OSD** : Changes OSD screen location to pre-specified 9 points on window.
- ▷ **OSD Horizontal Position** : Moves OSD MENU at the center of the screen to the left/right direction.
- ▷ **OSD Vertical Position** : Moves OSD MENU at the center of the screen to the upper/lower direction.
- ▷ **OSD time out** : After the specified time of not touching OSD menu on the screen, it is cleared. Time unit is a second, and the timer can be set by every 5 seconds.
- ▷ **OSD Background** : Specifies the transparent degree of OSD menu.



### Utilities

- ▷ **Language** : Selects one language from Korean, English, Japanese, Germany, and Italian to use it on OSD menu.
- ▷ **Volume** : Adjust volume by pressing left/right key.
- ▷ **FreezeFrame** : Stop the video image.
- ▷ **Factory Reset** : Returns the monitor to the initial factory status.



### PIPTV

- ▷ **Source** : Defines the broadcasting type.
- ▷ **Channel** : Adjust channel.
- ▷ **Tune Option** : You can finely control screen automatically or manually. (Fine tuning in case of manual)
- ▷ **Volume** : Adjust the size of volume by pressing left/right key.



## Descriptions for OSD Control Screen

### 2. Menu when using TV mode



#### Picture

- ▷ **Brightness** : Adjust the degree of screen brightness. Value range is from 0 to 100.
- ▷ **Contrast** : Adjust the color contrast of screen. Value range is from 0 to 100.
- ▷ **Color** : Adjust dark and light degree of color. Value range is from 0 to 100.  
If this is 0, screen gets black and white, and if 100, screen gets color saturated.
- ▷ **Tint** : Changes the color tone of video input image.
- ▷ **Image** : Controls the screen image to sharp or smooth.
- ▷ **Scaling** : Resizes the input screen image and displays it.



#### Advanced

- ▷ **Sharpness** : Adjust the screen image to sharp or smooth.
- ▷ **Gamma** : Adjust the color coordinates.
- ▷ **Color Temperature** : Adjust the color temperature as much as you cannot easily see the difference. (When selecting the user, you can change the value of red, green, and blue separately.)



#### Options

- ▷ **OSD** : Changes OSD screen location to pre-specified 9 points on window.
- ▷ **OSD Horizontal Position** : Moves OSD MENU at the center of the screen to the left/right direction.
- ▷ **OSD Vertical Position** : Moves OSD MENU at the center of the screen to the upper/lower direction.
- ▷ **OSD time out** : After the specified time of no touching OSD menu on the screen, it is cleared. Time unit is a second, and the timer can be set by every 5 seconds.
- ▷ **OSD Background** : Specifies the transparent degree of OSD menu.



### Utilities

- ▷ **Language** : Selects one language from Korean, English, Japanese, Germany, and Italian to use it on OSD menu.
- ▷ **Volume** : Adjust volume by pressing left/right key.
- ▷ **FreezeFrame** : Stop the video image.
- ▷ **Factory Reset** : Returns the monitor to the initial factory status.



### Television

- ▷ **Source** : Defines the broadcasting type
- ▷ **Channel** : Adjust the channel.
- ▷ **Tune option** : You can finely control screen automatically or manually.  
(Fine tuning in case of manual)
- ▷ **Channel Edit** : Adds or deletes channel.
- ▷ **Channel Search** : When selected, memorizes channels through scanning automatically.

## Descriptions for OSD Control Screen

### 3. Menu when using VIDEO 1 (COMPOSITE) mode



#### Picture

- ▷ **Brightness** : Adjust the degree of screen brightness. Value range is from 0 to 100.
- ▷ **Contrast** : Adjust the color contrast of screen. Value range is from 0 to 100.
- ▷ **Color** : Adjust dark and light degree of color. Value range is from 0 to 100.  
If this is 0, screen gets black and white, and if 100, screen gets color saturated.
- ▷ **Tint** : Changes the color tone of video input image.
- ▷ **Image** : Controls the screen image to sharp or smooth.
- ▷ **Scaling** : Resizes the input screen image and displays it.



#### Advanced

- ▷ **Sharpness** : Adjust the screen image to sharp or smooth.
- ▷ **Gamma** : Adjust the color coordinates.
- ▷ **Color Temperature** : Adjust the color temperature as much as you cannot easily see the difference. (When selecting the user, you can change the value of red, green, and blue separately.)



#### VIDEO

- ▷ **Video Format** : Determine the input video type.  
(AUTO, NTSC, PAL, and SECAM)
- ▷ **Video Type** : Specifies the video type. (DYD, and YCR)



### Option

- ▷ **OSD** : Changes OSD screen location to pre-specified 9 points on window.
- ▷ **OSD Horizontal Position** : Moves OSD MENU at the center of the screen to the left/right direction.
- ▷ **OSD Vertical Position** : Moves OSD MENU at the center of the screen to the upper/lower direction.
- ▷ **OSD time out** : After the specified time of no touching OSD menu on the screen, it is cleared. Time unit is a second, and the timer can be set by every 5 seconds.
- ▷ **OSD Background** : Specifies the transparent degree of OSD menu.



### Utilities

- ▷ **Language** : Selects one language from Korean, English, Japanese, Germany, and Italian to use it on OSD menu.
- ▷ **Volume** : Adjust volume by pressing left/right key.
- ▷ **FreezeFrame** : Stop the video image.
- ▷ **Factory Reset** : Returns the monitor to the initial factory status.

## Descriptions for OSD Control Screen

### 4. Menu when using VIDEO 2 (S-VHS) mode



#### Picture

- ▷ **Brightness** : Adjust the degree of screen brightness. Value range is from 0 to 100.
- ▷ **Contrast** : Adjust the color contrast of screen. Value range is from 0 to 100.
- ▷ **Color** : Adjust dark and light degree of color. Value range is from 0 to 100.  
If this is 0, screen gets black and white, and if 100, screen gets color saturated.
- ▷ **Tint** : Changes the color tone of video input image.
- ▷ **Image** : Controls the screen image to sharp or smooth.
- ▷ **Scaling** : Resizes the input screen image and displays it.



#### Advanced

- ▷ **Sharpness** : Adjust the screen image to sharp or smooth.
- ▷ **Gamma** : Adjust the color coordinates.
- ▷ **Color Temperature** : Adjust the color temperature as much as you cannot easily see the difference. (When selecting the user, you can change the value of red, green, and blue separately.)



#### VIDEO

- ▷ **Video Format** : Determine the input video type. (AUTO, NTSC, PAL, and SECAM)
- ▷ **Video Type** : Specifies the video type. (DYD, and YCR)



### Option

- ▷ **OSD** : Changes OSD screen location to pre-specified 9 points on window.
- ▷ **OSD Horizontal Position** : Moves OSD MENU at the center of the screen to the left/right direction.
- ▷ **OSD Vertical Position** : Moves OSD MENU at the center of the screen to the upper/lower direction.
- ▷ **OSD time out** : After the specified time of no touching OSD menu on the screen, it is cleared. Time unit is a second, and the timer can be set by every 5 seconds.
- ▷ **OSD Background** : Specifies the transparent degree of OSD menu.



### Utilities

- ▷ **Language** : Selects one language from Korean, English, Japanese, Germany, and Italian to use it on OSD menu.
- ▷ **Volume** : Adjust volume by pressing left/right key.
- ▷ **FreezeFrame** : Stop the video image.
- ▷ **Factory Reset** : Returns the monitor to the initial factory status.

## 제품 사양

| Description                 | MB181ATP                                     | MB181DTP                                     |
|-----------------------------|----------------------------------------------|----------------------------------------------|
| DISPLAY TYPE                | ACTIVE MATRIX LCD (TFT)                      | ACTIVE MATRIX LCD (TFT)                      |
| DIAGONAL SIZE               | 45.974cm                                     | 45.974cm                                     |
| VIEWABLE SIZE               | 359.040mm × 287.232mm                        | 359.040mm × 287.232mm                        |
| VIEWING ANGLE               | 160° (HORIZONTAL) / 160° (VERTICAL)          | 160° (HORIZONTAL) / 160° (VERTICAL)          |
| TILT ANGLE                  | 5° (FRONT) / 20° (BACK)                      | 5° (FRONT) / 20° (BACK)                      |
| WALL MOUNTING               | YES                                          | YES                                          |
| BRIGHTNESS                  | 250 cd/m <sup>2</sup>                        | 250 cd/m <sup>2</sup>                        |
| RESOLUTION                  | 1280 x 1024 (SXGA)                           | 1280 x 1024 (SXGA)                           |
| DISPLAY COLOR               | 16.7M color                                  | 16.7M color                                  |
| PIXEL FORMAT                | RGB STRIPE ARRANGEMENT                       | RGB STRIPE ARRANGEMENT                       |
| PIXEL PITCH                 | 0.2805mm × 0.2805mm                          | 0.2805mm × 0.2805mm                          |
| INTERFACE                   | ANALOG                                       | ANALOG / Digital                             |
| VIDEO INPUT                 | ANALOG R.G.B., 0.7Vp-p                       | ANALOG R.G.B., 0.7Vp-p / Digital R.G.B.      |
| CONTRAST RATIO              | 350 : 1                                      | 350 : 1                                      |
| AC/DC ADAPTOR               | AC 100 - 240V, 60/50Hz, DC12V/4.16A          | AC 100 - 240V, 60/50Hz, DC12V/4.16A          |
| BUILT-IN SPEAKERS           | THE SEPARABLE SPEAKER ( 3W x 2 STEREO )      | THE SEPARABLE SPEAKER ( 3W x 2 STEREO )      |
| PLUG & PLAY LEVEL           | VESA DDC 1/2B                                | VESA DDC 1/2B                                |
| I/O CONNECTOR               | DC POWER IN                                  | DC POWER IN                                  |
|                             | VGA 15PIN D-SUB                              | VGA 15PIN D-SUB                              |
|                             | AUDIO IN & OUT                               | AUDIO IN & OUT                               |
|                             | S-VHS, COMPOSITE                             | S-VHS, COMPOSITE                             |
|                             | ANTENNA, CATV                                | ANTENNA, CATV                                |
| OPTION                      | USB PORT                                     | USB PORT                                     |
|                             | DVI I PORT                                   | DVI I PORT                                   |
| SYSTEM TYPE                 | PC COMPATIBLE                                | PC COMPATIBLE                                |
| POWER REQUIREMENTS          | DC 12V, 4A                                   | DC 12V, 4A                                   |
| POWER MANAGEMENT            | VESA DPMS STANDARD                           | VESA DPMS STANDARD                           |
| POWER CONSUMPTION           | 40W, SAVING MODE : 5W                        | 40W, SAVING MODE : 5W                        |
| RESPONSE TIME               | 25ms                                         | 25ms                                         |
| SCANNING FREQUENCY          | 31.5 - 80kHz(HORIZONTAL) , 60-75Hz(VERTICAL) | 31.5 - 80kHz(HORIZONTAL) , 60-75Hz(VERTICAL) |
| VIDEO / T.V. : VIDEO SIGNAL | COMPOSITE, S-VHS                             | COMPOSITE, S-VHS                             |
| : T.V. SIGNAL               | NTSC/ PAL                                    | NTSC/ PAL                                    |
| WEIGHT(NET)                 | 6.9kg                                        | 6.9kg                                        |
| DIMENSIONS                  | 407mm(W) x 390mm(L) x 58mm(H)                | 407mm(W) x 390mm(L) x 58mm(H)                |



## Product Display Specification

| RESOLUTION | REFRESH RATE | HORIZONTAL FREQUENCY | PIXEL FREQUENCY | STANDARD TYPE |
|------------|--------------|----------------------|-----------------|---------------|
| 640×350    | 70Hz         | 31.5KHz              | 25.175MHz       | VESA ☒        |
| 640×400    | 70Hz         | 31.5KHz              | 25.175MHz       | VESA ☒        |
| 720×350    | 70Hz         | 31.5KHz              | 28.35MHz        | VESA ☒        |
| 640×480    | 60Hz         | 31.5KHz              | 25.175MHz       | Industry ☒    |
|            | 72Hz         | 37.9KHz              | 31.500MHz       | VESA ☒        |
|            | 75Hz         | 37.5KHz              | 31.500MHz       | VESA ☒        |
| 800×600    | 56Hz         | 35.1KHz              | 36.600MHz       | VESA ☒        |
|            | 60Hz         | 37.9KHz              | 40.000MHz       | VESA ☒        |
|            | 72Hz         | 48.1KHz              | 50.000MHz       | VESA ☒        |
|            | 75Hz         | 46.9KHz              | 49.500MHz       | VESA ☒        |
| 1024×768   | 43Hz         | 35.5KHz              | 44.900MHz       | Industry ☒    |
|            | 60Hz         | 48.4KHz              | 65.000MHz       | VESA ☒        |
|            | 70Hz         | 56.5KHz              | 75.000MHz       | VESA ☒        |
|            | 75Hz         | 60.0KHz              | 78.750MHz       | VESA ☒        |
| 1152×864   | 75Hz         | 67.5KHz              | 108.000MHz      | VESA ☒        |
| 1280×960   | 60Hz         | 60.0KHz              | 108.000MHz      | VESA ☒        |
| 1280×1024  | 60Hz         | 64.0KHz              | 108.000MHz      | VESA ☒        |
|            | 75Hz         | 80.0KHz              | 135.000MHz      | VESA ☒        |

**Please check the followings before contacting customer service center.**

■ If the monitor does not work properly, please check the followings first. And then, contact customer service center.

**Q: When the power cannot be turned on,**

**A:** Check if the power cord is connected correctly and press power switch.

**Q: When the screen does not come out,**

**A:** Check if the signal cable (D-SUB) is connected correctly.

**Q: When LED is switched on and off,**

**A:** Check if the signal cable (D-SUB) is connected correctly.

**Q: When the screen size or location is not normal,**

**A:** Execute AUTO from DISPLAY ADJUST.

**Q: When the screen is too bright or too dark,**

**A:** Adjust the brightness on Brightness or Contrast from Display Adjust.

**Q: When the text on screen is dim or not focused,**

**A:** Optimizes the screen noise by adjusting pPhase from Display Adjust.

**Q: When the screen is not clear,**

**A:** Change the vertical frequency from the display registration information of system to the basic frequency. If the problem is not fixed after performing the above, replace the video card from other company. Because the video card from certain company cannot be used on this monitor.

**Q: When "NO SIGNAL" is displayed,**

**A:** Check if the signal cable (D-SUB) of the monitor is connected correctly or damaged.

**Q: When the video comes out but the sound does not come out,**

**A:** Check the program of another broadcasting system. Press the volume increase button.

**Q: When the screen from previous channel or certain channel is overlapped or stripes are displayed on the screen,**

**A:** Adjust the antenna location or direction.

**Q: When the sound does not come out from the speaker,**

**A:** Check if the audio cable is connected correctly to the audio in terminal of the monitor and the sound card speaker terminal of PC.

**Q: After replacing the existing monitor with the monitor of Mbestek, if the screen does not come out,**

**A:** Before replacing the monitor (when using the existing monitor), change the frequency on window display registration information into the frequency supported by Mbestek and then, install the monitor again.



## **Descriptions for Terms**

### **Plug and Play**

This is the function of installing new hardware devices or boards to the computer without additional specification. When installing the monitor, the products of Mbestek can find out the optimal setup value automatically by using DDC method without using the separate diskette. (DDC method: This is the abbreviations of Display Data Channel, and means the method of exchanging information between monitor and YGA card. The products of Mbestek can execute YESA DDC 1/2B.)

### **OSD (On Screen Display)**

OSD is the function of displaying the monitor information that the user requires or needs to know of, directly on the screen. On data revival screen, when the user press the control button for adjusting the monitor screen state, such as brightness, contrast, RGB control, and vertical and horizontal size and location, the control function is displayed on screen as a graphic for the user to easily control.

### **Resolution**

This is the image precision of devices like screen, TV camera, and printer. Usually, the monitor screen precision is defined by the number of pixels configuring screen. The definition of screen image is defined by the resolution and monitor size. The more resolution is, the finer and the smoother the screen image is for the user to work multi jobs conveniently.

### **Horizontal Frequency**

Horizontal frequency is the number of horizontal lines as much as the monitor can display on the screen for 1 second. The unit is KHz.

### **Vertical Frequency**

Vertical frequency is the number of times that can be displayed for 1 second. If it is 60Hz, the screen is displayed 60 times in a second.



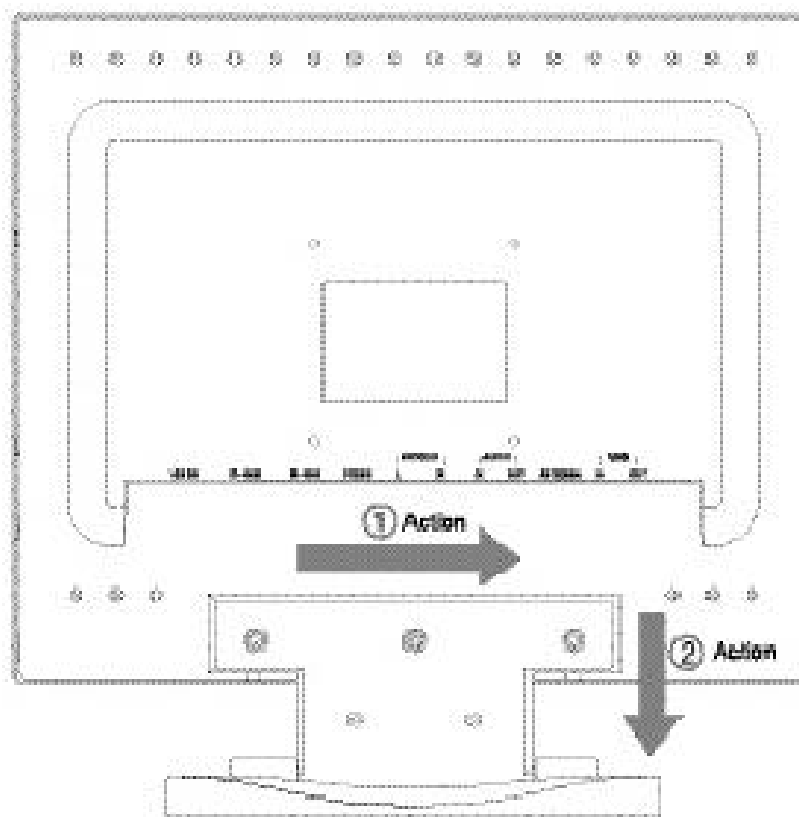
## Characteristics of LCD Panel

1. Black dot (not illuminated) or dots (optical point) may be displayed TFT LCD panel. This is the characteristic of TFT LCD panel and not a defect. If you have difficulty in using this panel, contact the sales agent.
2. Turning on TFT LCD panel for a long time may result an afterimage or shorter lifetime. Therefore, use the power saving function or screensaver. (Lifetime of backlight: 20 thousand ~ 25 thousand hours)
3. The fluorescent panel of TFT LCD panel is a high-pressure fluorescent panel. When it is used for a long time, the screen may be partly dark or flickering. At this time, you can buy this panel at the sales agent.

## Method of Detaching Stand

To use the stand detached, utilize the marketing stand and the one with the load capacity satisfying YESA specification. Keep the stand in good condition.

1. Put the LCD screen down to the smooth cloth.

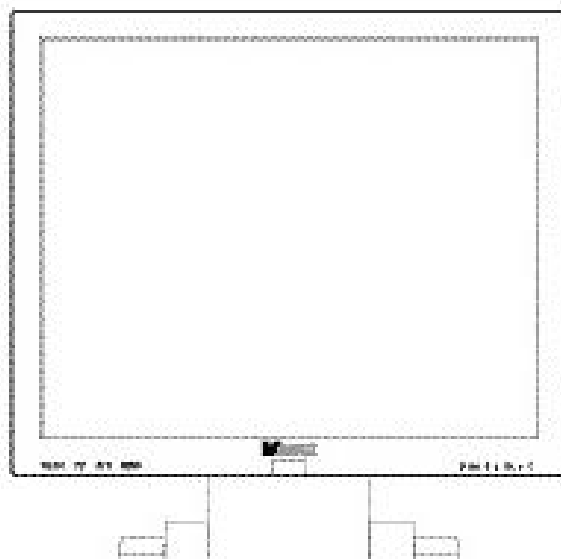


2. Unscrew three parts at the back of the stand, push it to the right, and pull it down.

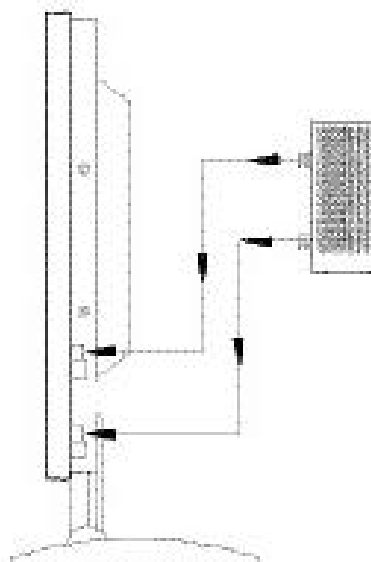


## Method of Attaching and Detaching the Speaker

1. Release the rubber stopper at the side of monitor.



2. Attach the speaker, as shown in the following figure.



**\*Note :** Insert the hook of speaker into the hole at the side of monitor.

## LCD Monitor Warranty

We warrant you the following things according to the customer's compensation rules.

1. This product is manufactured under the strict performance management and checking procedure.
2. If the product is abnormal, we'll fix it free of charge for 1 year. However, even under warranty, you should be charged service fee for the charged service items described below.  
(Service fee includes repair cost, accessory cost, traveling expense, and other additional cost.)
3. This warranty is for domestic use, and not re-issued. Therefore, keep it well.
4. When requiring A/S, you should keep this warranty.
5. If this product gets out of order, contact the sales agent.

|                       |                        |                     |  |
|-----------------------|------------------------|---------------------|--|
| Product Name          | TFT-LCD Monitor        |                     |  |
| Model Name            |                        |                     |  |
| Purchased Date        | 200 year, month, date. |                     |  |
| Purchased Place       |                        |                     |  |
| Telephone Number      |                        | Person in charge of |  |
| Customer Address      |                        |                     |  |
| Customer Name         |                        |                     |  |
| Customer Phone Number |                        |                     |  |

## Descriptions for Product Warranty

1. Please make the sales agent fulfill this warranty, check the contents, and keep it well.  
(When requiring A/S, you should need this warranty.)
2. Even under warranty, you should be charged service fee for the charged service items described below.  
(Service fee includes repair cost, accessory cost, traveling expense, and other additional cost.)

### Charged Service Items

- 1) When the defect is caused by the user's mistake.
- 2) When the customer uses wrong voltage.
- 3) When the defect is caused by a natural disaster(fire, gas, earthquake, storm, and flood).
- 4) When the monitor is damaged or broken by the user during moving it after installation (by the user's mistake).
- 5) When the monitor is broken by the user during remodeling it at the user's own accord.
- 6) When the accessory lifetime expires(consumed accessories, such as, lamp and etc.).

3. When requiring A/S, please check first the usage and checking things in manual before contacting customer service center. If the monitor still does not work properly, please check the followings first. And then, contact the sales agent.

When contacting the sales agent, please inform the following things.

- ▶ Model name, purchased date, and purchased place
- ▶ Address, name, telephone number, and home location
- ▶ Defect details, and etc.