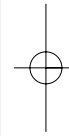
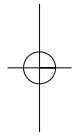


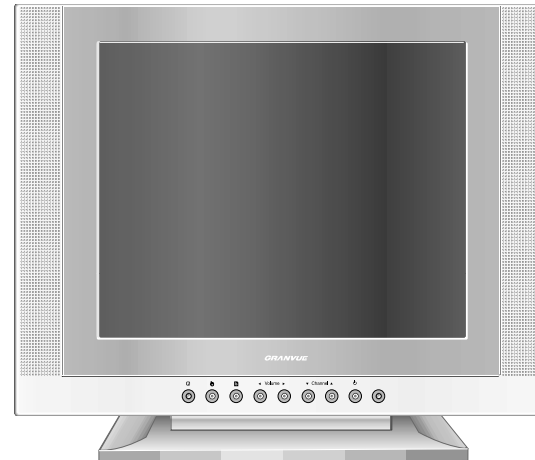
GRANVUE

User's Manual

18.1" TFT LCD Monitor / TV

ET-1801T





18.1" TFT LCD Monitor / TV

GRANVUE

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Safety Instructions

Before connecting the AC power cord to the DC adapter outlet, make sure the voltage designation of the DC adapter corresponds to the local electrical supply.

Never insert anything metallic into the cabinet openings of the Liquid Crystal Display (LCD) monitor: doing so may create the danger of electric shock.

To avoid electric shock, never touch the inside of the LCD monitor. Only a qualified technician should open the case of the LCD monitor.

Never use your LCD monitor if the power cord has been damaged. Do not allow anything to rest on the power cord, and keep the cord away from areas where people can trip over it.

Be sure to hold the plug, not the cord, when disconnecting the LCD monitor from an electric socket.

Openings in the LCD monitor cabinet are provided for ventilation. To prevent overheating, these openings should not be blocked or covered. Also, avoid using the LCD monitor on a bed, sofa, rug, or other soft surface. Doing so may block the ventilation openings in the bottom of the cabinet. If you put the LCD monitor in a bookcase or some other enclosed space, be sure to provide adequate ventilation. Put your LCD monitor in a location with low humidity and a minimum of dust.

Do not expose the LCD monitor to rain or use it near water (in kitchen, near swimming pool, etc.). If the LCD monitor accidentally gets wet, unplug it and contact an authorized dealer immediately. You can clean the LCD monitor with a damp cloth when necessary, but be sure to unplug the LCD monitor first.

Place the LCD monitor on a solid surface and treat it carefully. The screen is made of thin glass with a plastic front surface and be damaged if dropped, hit or scratched. Do not clean the front panel with keton-type materials (e.g., acetone), ethyl alcohol, toluene, ethylacid, methyl, or chloride - these may damage the panel.

Locate your LCD monitor near an easily accessible AC outlet.

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		

Regulatory Information

European Notice

products with the CE Marking comply with both the EMC Directive (89/336/EEC),(93/68/ECC) and the Low Voltage Directive(72/23/ECC) issued by the Commission of the European Community. Compliance with these directives implies conformity to the following European Norms:

- EN55022:1998-Radio Frequency Interference
- EN55024:1998-Electromagnetic Immunity
- EN61000-3-2:1995 + A1 + A2 - Power Line Harmonics
- EN61000-3-3:1995 - Voltage Fluctuations
- EN60950-Product Safety

FCC Information

User Instructions

The Federal Communications Radio Frequency Interference Statement includes the following warning:

NOTE : This equipment has been tested and found to comply with limits for a Class B digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television receptions, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one more of the following measures:

- Reorient or relocate the receiving antenna.
Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet of a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

User information

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

If necessary, consult your dealer or an experienced radio/TV technician for additional suggestions. You may find the booklet called How to Identify and Resolve Radio/TV Interference Problems helpful.This booklet was prepared by the Federal

Regulatory Information

Communications Commission. It is available from the U.S. Government Printing Office, Washington, DC 20402, Stock Number 004-000-00345-4.

Warning

User must use shielded signal interface cables to maintain FCC compliance for the product.

Declaration of conformity for products Marked with FCC Logo

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The party responsible for product compliance:

Eastern Technology, Inc.

412, Chongchom-dong Pupyong-gu, Incheon, Korea 403-032

Tel) 82-32-500-3100 Fax) 82-32-505-5109

Provided with this monitor is a detachable power supply cord with IEC320 style terminations. It may be suitable for connection to any UL Listed personal computer with similar configuration. Before making the connection, make sure the voltage rating of the computer convenience outlet is the same as the monitor and that the ampere rating of the computer convenience outlet is equal to or exceeds the monitor voltage rating.

For 120 Volt applications, use only UL Listed detachable power cord with NEMA configuration 5-15P type (parallel blades) plug cap. For 240 Volt applications use only UL Listed Detachable power supply cord with NEMA configuration 6-15P type (Tandem blades) plug cap.

General Safety Precautions

This Monitor has been engineered and manufactured to assure your safety. You can prevent serious electrical shock and other hazards by keeping in mind the following:

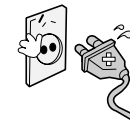


Do not place anything heavy, wet or magnetic on the monitor or the power cord. Never cover the ventilation openings with any material and never touch them with metallic or inflammable materials.

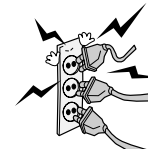


Avoid operating the monitor in extreme heat, humidity or areas affected by dust.

● Temperature : 5~35°C ● Humidity : 30~80RH



Be sure to turn the monitor off before plugging the power cord into the socket. Make sure that the power cord and the other cords are securely and correctly connected.



Overloaded AC outlets and extension cords are dangerous, as are frayed power cords and broken plugs, which may cause electric shock or fire. Call your service technician for replacement.



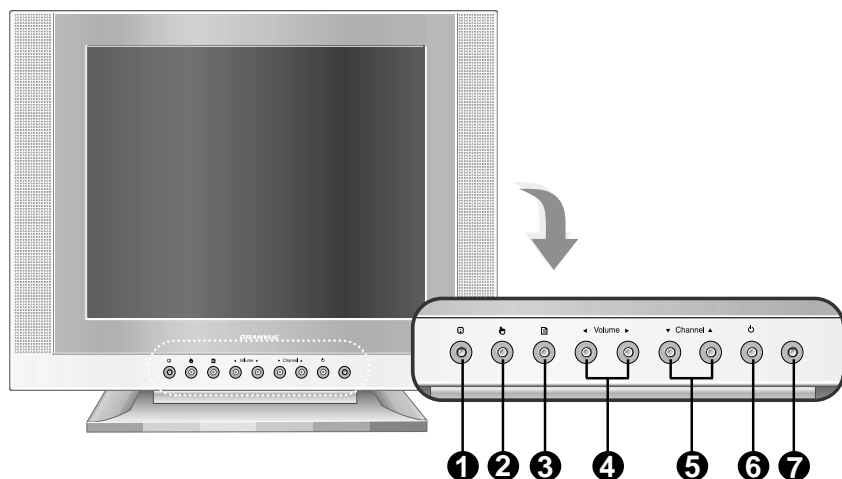
Do not use sharp tools such as a pin or a pencil near the monitor, as they may scratch the LCD surface.



Do not use a solvent, such as benzene, to clean the monitor, as it will damage the LCD surface.

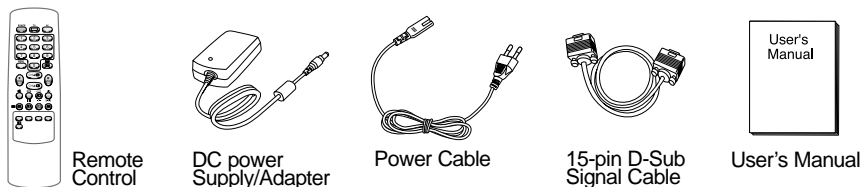
Parts Description

Front Panel



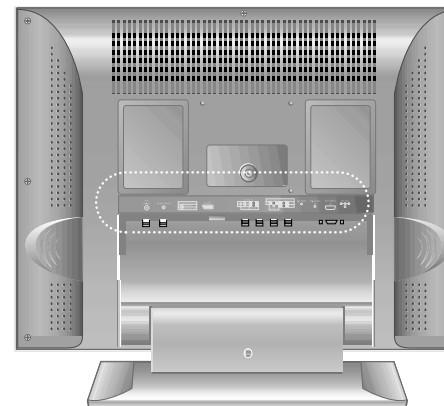
- 1 REMOTE CONTROL SENSOR ()**
Aim the remote control towards this spot on the TFT LCD.
- 2 SELECT ()**
Select input signal or select submenu of the on-screen menu.
- 3 MENU ()**
Display the main on-screen menu.
Exit from sub-menu.
- 4 ◀ VOLUME ▶**
Press the increase or decrease the volume.
Also used to increase or reduce the value of a menu option.
- 5 ▼ CHANNEL ▲**
Press **CH ▼** or **CH ▲** to change channels.
Also used to highlight selections on the on-screen menus.
- 6 POWER ()**
Switches the Set off (standby mode) and on.
- 7 STAND BY**
Light up when you turn the power off.

Accessory

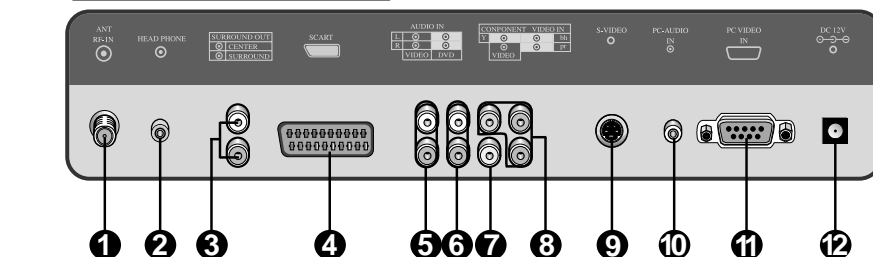


Parts Description

Rear Panel

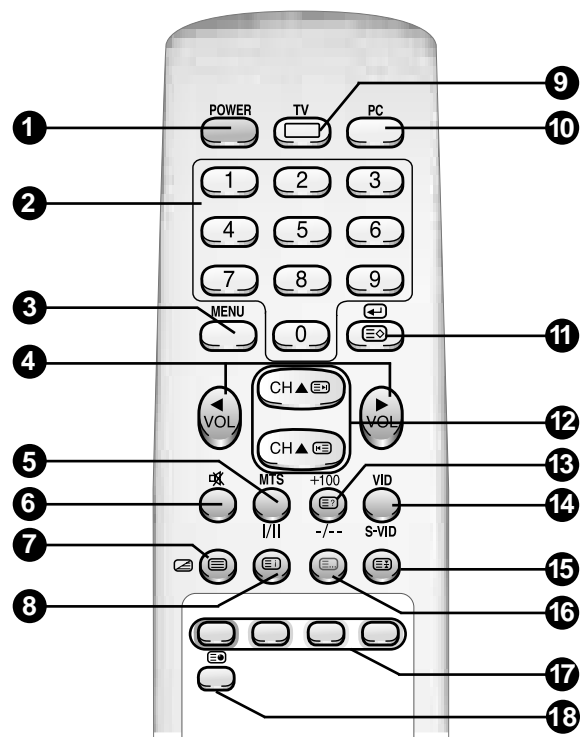


Rear Panel Jacks



- 1 ANT RF-IN**
Connect to an antenna or a cable TV system.
- 2 HEAD PHONE JACK**
- 3 SURROUND OUT (CENTER, SURROUND)**
Use to connect a powered rear surround speakers
- 4 SCART (PAL Model)**
SCART audio/video connector.
- 5 AUDIO INPUTS (for VIDEO mode)**
Audio signals from VCR or similar device.
- 6 COMPONENT AUDIO INPUTS**
Audio signals from DVD player when using the component video input jacks.
- 7 VIDEO INPUT**
Video signals from VCR or similar device.
- 8 COMPONENT VIDEO INPUTS (Y, Pb, Pr)**
Video signals from a DVD player.
- 9 S-VIDEO IN**
S-Video signal from an S-VHS VCR or Laserdisc player.
- 10 PC AUDIO INPUT**
Connects to the sound-output port of a personal computer.
- 11 PC VIDEO INPUT**
Used to connect a video signal from a personal computer.
- 12 POWER JACK**
To input DC power from power outlet.

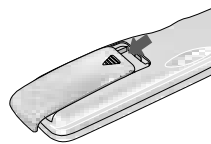
Remote Control (Teletext function is optional)



Inserting the batteries in the remote control

You must insert or replace the batteries in the remote control when you:

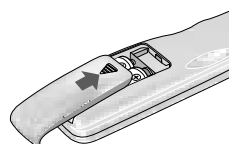
- Purchase the set.
- Find that the remote control is no longer operating correctly.



1 Remove the cover of the remote control by pressing the symbol and pulling the cover space in the direction of the arrow.



2 Insert 2 batteries(AA size), taking care to respect the polarities.



3 Replace the cover by pushing it in the direction of the arrow.

! You can use your remote control within a distance of 7-10m and an angle of 30 degrees from the left and right sides of the remote control receptor of your monitor.

Remote Control (Teletext function is optional)

1 POWER

Turns the TV On and Off.

2 Numeric buttons

Direct channel select. Direct page select during teletext display (option).

3 MENU

Displays on-screen menu.

4 VOL ◀, ▶

Press the increase or decrease the volume. Also used to make selections on the on-screen menus.

5 I / II (MTS)

Press to choose stereo, dual or mono.

6 MUTE

Press to temporarily cut of the sound.

7 TELETEXT DISPLAY / MIX (E / E)

Display teletext or mix with TV screen. (Option)

8 TELETEXT INFORMATION (E?)

Display teletext information.(Option)

9 TV

Select TV signal.
Teletext Off(Optional)

10 PC

Select PC signal.

11 SELECT / TELETEXT STORE (E)

Displays a menu of all of the available input sources. (TV, Video, Svideo, and PC).
Store teletext page (Option).

12 CH ▼, ▲/ TELETEXT PREVIOUS, NEXT PAGE(E, E)

Press CH ▼ or CH ▲ to change channels. Also used to highlight selections on the on-screen menus.
Select the channel providing the teletext service.

13 -/-- (+100) / TELETEXT REVEAL (E)

Press to select channels over 100 or one/two digit channel selection.
Select hidden content during teletext display (Option).

14 VID / S-VID

Press to display all of the available video sources (i.e., Video, Svideo PC and Antenna).

15 TELETEXT HOLD (E)

Hold Function during teletext display (Option)

16 FLOF / LIST MODE SELECTION (E)

Exchange FLOF / LIST mode.

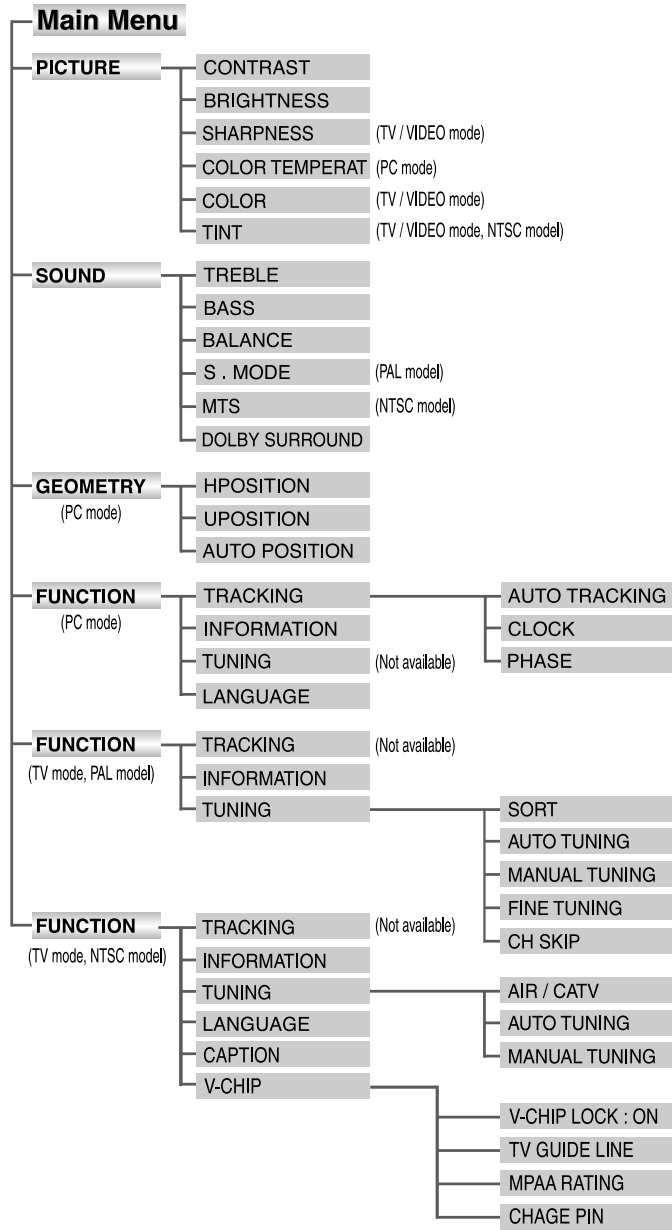
17 FASTTEXT TOPIC SELECTION

Directly access teletext linked page.

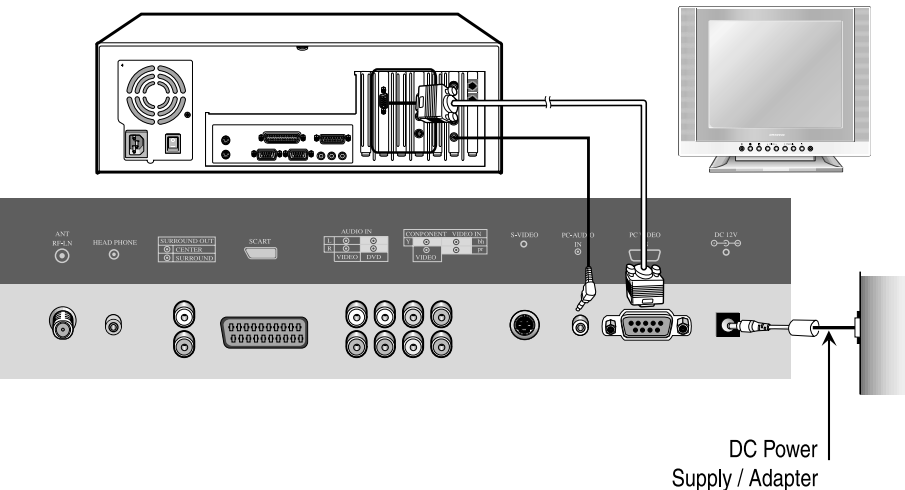
18 TELETEXT SUB-PAGE (E)

To display a secondary page.

Menu tree



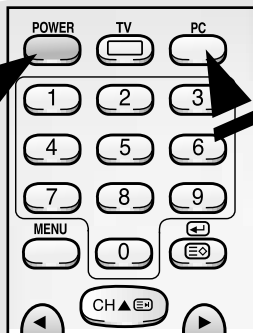
Connecting a PC




- 1 Turn off your computer and monitor
- 2 Connect a PC D-Sub cable between your PC and PC-VIDEO-IN of the monitor. And then fasten the screws of both sides of the cable.
- 3 Connect a PC Audio Cable between the Sound Output jack of the sound card on a PC and the PC-AUDIO-IN of the monitor.
- 4 Connect a DC Power unit cable to the Power jack on the rear of your monitor. And connect a power cable to the DC Power unit before connecting to a power outlet.
- 5 Power on the computer before turning on the monitor.

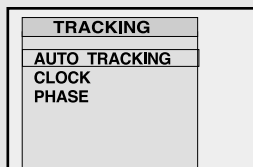
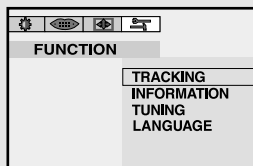
Viewing a PC screen





Initial set PC mode



- 1 Power on your monitor by pressing the **POWER**() button on the main set or on the remote control.
- 2 Use the **PC** button on the remote control to switch to the **PC** mode.
Then the PC screen is automatically set.
When a CD-Title runs, the music is output from speakers.
(You can use an external speaker via the Audio Output jack on the rear of the main set.)

When the Picture is Unstable



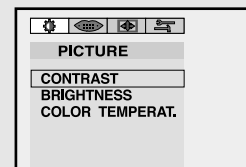
- 1 Press the **MENU**() button.
Result : The **PICTURE** menu is displayed.
- 2 Use the **VOL** ◀ or **VOL** ▶ button to move to the **FUNCTION** menu.
- 3 Use the **CH** ▼ or **CH** ▲ button to move to **TRACKING**, then press the **SEL**() button. Then, the **TRACKING** menu will be displayed.
- 4 Move to **AUTO TRACKING**, then press the **SEL**() button. Then, the message "**AUTO TRACKING PROCESSING...**" appears on the screen to stabilize the screen.
- 5 Press the **MENU**() button repeatedly until the menus disappear.



Viewing a PC screen

Adjusting the Picture Settings

Your monitor has several settings which allow you to control picture quality:

- **CONTRAST** , **BRIGHTNESS**, **COLOR TEMPERATURE**





- 1 Press the **MENU**() button.
Result : The **PICTURE** menu is displayed.
- 2 Use the **CH** ▼ or **CH** ▲ button to select one of the following options:
CONTRAST
BRIGHTNESS
COLOR TEMPERATURE
- 3 Press the **SEL**() button.
- 4 Press the **VOL** ◀ or **VOL** ▶ button to suit your personal preference.
 - **CONTRAST** :
Adjust the brightness and darkness between objects and back grounds.
 - **BRIGHTNESS** :
Adjust the overall of the screen brighter or darker.
 - **COLOR TEMPERATURE** :
The tone of color can be changed from redish white to bluish white. The individual color components are also user customizable.




6500K	STANDARD	9300K	USER	RESET
Redish white	Plain white	Blueish white	User coustomizable	Factorn default value

Viewing a PC screen

Adjusting the Color Temperature Setting

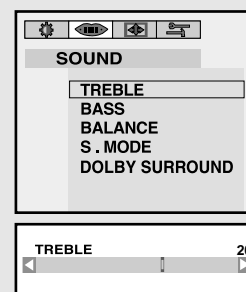
1. Press the **CH ▼** or **CH ▲** button to select "**COLOR TEMPERATURE**" in Picture mode.
2. Press the **SEL**() button.
3. Press the **VOL ◀** or **VOL ▶** button to select "**User**".
4. Press the **MENU**() button.
Result : **USER** menu is displayed.
5. Press the **CH ▼** or **CH ▲** button to select one of the following options:
RED GAIN, BLUE GAIN, GREEN GAIN, RED BIAS, BLUE BIAS, GREEN BIAS
6. Press the **VOL ◀** or **VOL ▶** button.




-
- 5 Press the **MENU**() button repeatedly until the menus disappear.
-

Viewing a PC screen

Adjusting the Sound Settings

The sound settings can be adjusted to suit your personal preference : **TREBLE, BASS, BALANCE, S.MODE**

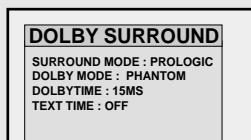
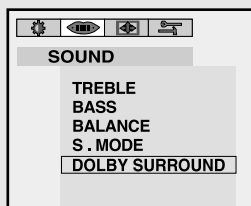




-
- 1 Press the **MENU**() button.
Result: The **PICTURE** menu is displayed.
 - 2 Use the **VOL ◀** or **VOL ▶** button to move the **SOUND** menu.
 - 3 Use the **CH ▼** or **CH ▲** button to select one of the following options:
TREBLE
BASS
BALANCE
S.MODE / MTS
DOLBY SURROUND
 - 4 Press the **SEL**() button.
 - 5 Press the **VOL ◀** or **VOL ▶** button to suit your personal preference.
• **S.MODE / MTS** : To select **STEREO** or **MONO**.
 - 6 Press the **MENU**() button repeatedly until the menus disappear.
-

Viewing a PC screen


Setting the Dolby Pro-logic

The Dolby mode allows you enjoy Dolby surround effect fully with only surround speakers are connected to TV. The Dolby Surround options(Virtual and Dolby Pro-logic) simulate the ambience of stadium or a movie theater.



- 1 Press the **MENU**() button.
Result: The **PICTURE** menu is displayed.
- 2 Use the **VOL ◀**, **VOL ▶** button to move the **SOUND** menu.
- 3 Use the **CH ▼** or **CH ▲** button to select "**DOLBY SURROUND**".
- 4 Press the **SEL**() button.
- 5 Press the **VOL ◀** or **VOL ▶** button to select **SURROUND MODE: PROLOGIC**.
The following surround modes are available:
OFF , VIRTUAL , PROLOGIC.
 - **VIRTUAL MODE :**
This mode allows the TV L/R speakers to provide a home-like Dolby effect.
The center and surround sounds are mixed up into the L/R speakers.
- 6 Press the **CH ▼** or **CH ▲** button to select "**DOLBY MODE**".

Viewing a PC screen

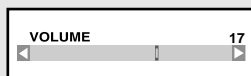
- 7 Press the **VOL ◀** or **VOL ▶** button to select the required option.
The following Dolby modes are available:
NORMAL, PHANTOM.
 - NORMAL :** Selected when the center speaker is smaller than the main TV speakers. In Normal Mode, the sound of the center channel is output through center speaker.
 - PHANTOM :** Selected when the center speaker is either not present or not used. In Phantom Mode, the center sound is output through both left and right speakers.
- 8 Press the **CH ▼** or **CH ▲** button to select "**DELAY TIME**".
- 9 Press the **VOL ◀** or **VOL ▶** button to select any value between 15ms and 30ms.
Some trial-and error experimenting is necessary to find the optimal setting, which will vary according to individual preference.
- 10 Press the **CH ▼** or **CH ▲** button to select "**TEST TONE**".
- 11 Press the **VOL ◀** or **VOL ▶** button to test the speaker.
The following test tone modes are available:
OFF -> LEFT->CENTER->RIGHT->SURROUND.
A tone will cycle through the speakers so you can hear the surround effect and make additional changes as need.
- 12 When you have finished, press the **MENU**() button repeatedly to return to normal viewing.

Manufactured under license from Dolby Laboratories Licensing corporation.
DOLBY, the double-D symbol and "**PRO LOGIC**" are trademarks of Dolby Laboratories Licensing Corporation.

Viewing a PC screen

Adjusting the Volume/ Switching the Sound Off Temporarily

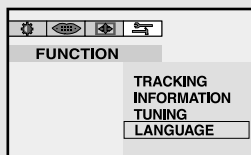
You can adjust the volume by pressing the VOL ◀ or VOL ▶ button on the remote control.
You can switch the sound off temporarily by pressing the MUTE button on the remote control, for example you may wish to answer the telephone.



- 1 Press the **VOL ▶** button to increase the volume (cursor moves to the right).
- 2 Press the **VOL ◀** button to decrease the volume (cursor moves to the left).
- 3 Press the **MUTE** button.
Result : The sound is switched off and "MUTE" is displayed.
- 4 When you wish to turn the sound back on at the same volume as before, press the **MUTE** button again (or either of the volume buttons).

Selecting the Menu Language

Choose a language for the on-screen menu : **ENGLISH, DEUTSCH or ITALIAN.**

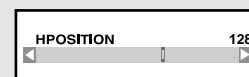
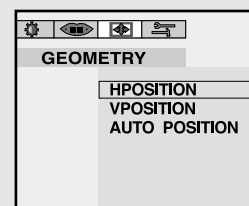


- 1 Press the **MENU([])** button.
Result : The **PICTURE** menu is displayed.
- 2 Press the **VOL ◀** or **VOL ▶** buttons to move the **FUNCTION** menu.
- 3 Press the **CH ▼** button to place the selection bar on the **LANGUAGE** mode.
And press the **SEL([])** button.
- 4 Use the **VOL ◀** or **VOL ▶** buttons to select the language.
- 5 Press the **MENU([])** button repeatedly until the menus disappear.

Viewing a PC screen

Adjusting the Geometry Settings

The geometry settings can be adjusted to center your viewing screen.



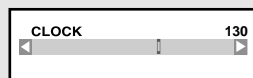
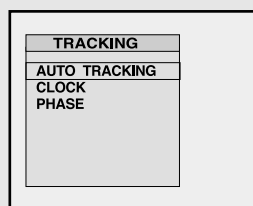
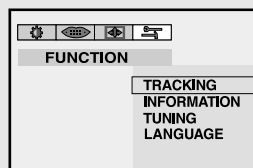
- 1 Press the **MENU([])** button.
Result : The **PICTURE** menu is displayed.
- 2 Use the **VOL ◀**, **VOL ▶** button to move the **GEOMETRY** menu.
- 3 Use the **CH ▼** or **CH ▲** button to select one of the following options:
HPOSITION
VPOSITION
AUTO POSITION
- 4 Press the **SEL([])** button.
- 5 Press the **VOL ◀** or **VOL ▶** button to adjust the position of screen.
 - If the position of screen is horizontally off-centered, use **H-POSITION**.
 - If the position of screen is vertically off-centered, use **V-POSITION**.

Use the **AUTO POSITION** to position the screen to be horizontally and vertically centered automatically.
- 6 Press the **MENU([])** button repeatedly until the menus disappear.

Viewing a PC screen

PC Stable Adjustment

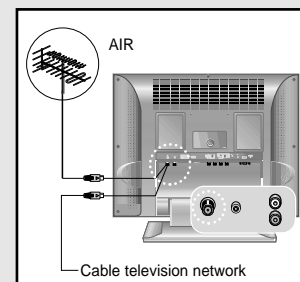
When the screen is unstable in PC settings, or to make your PC stable by adjusting the Clock and Phase, set the PC in the following sequence:



- 1 Press the **MENU**() button.
Result : The **PICTURE** menu is displayed.
- 2 Use the **VOL** ◀ or **VOL** ▶ button to move the **FUNCTION** menu.
- 3 Use the **CH** ▼ button move to **TRACKING** and then press the **SEL**() button.
Result : The **TRACKING** menu is displayed.
- 4 Use the **CH** ▼ or **CH** ▲ button to select one of the following options:
AUTO TRACKING, CLOCK, PHASE
- 5 To adjust the.. Press the...
AUTO TRACKING **SEL** button.
CLOCK **SEL** button and then press
PHASE the **VOL** ◀ or **VOL** ▶ button.
- 6 • **AUTO TRACKING** : Automatically optimizes the status of screen.
This is recommended to perform for new PC.
• **CLOCK** : Adjusts the horizontal size of screen by increasing / decreasing the number of pixels.
• **PHASE** : Sets the focus of screen.
Adjusts when some noise exists or the character lines are seen overlapped.
- 7 Press the **MENU**() button repeatedly until the menus disappear.

Connecting

Connecting the Aerial or Cable Television Network



To view television channels correctly, a signal must be received by the set from one of following sources :

- An outdoor aerial
- An indoor aerial (not recommendable)
- A cable television network

1. In the first three cases, connect the aerial or network input cable to the 75 ohm coaxial socket on the bottom of the television.
2. Press the TV button on the remote control.

Connecting the VCR, DVD or Other External Devices

1. Connect video and audio cable according to the shape and color of the video / audio cable. (SCART jack, RCA jacks)
 - When an external devices is in **MONO**, the audio connection cable can be connected to either the left and **S.MODE/MTS** should be set **FM MONO/MONO**.
2. For optimal visual image, use **S-VIDEO** connector instead of video (yellow) connector.
 - If RCA jack is connected together with SCART jack, RCA jack has priority.

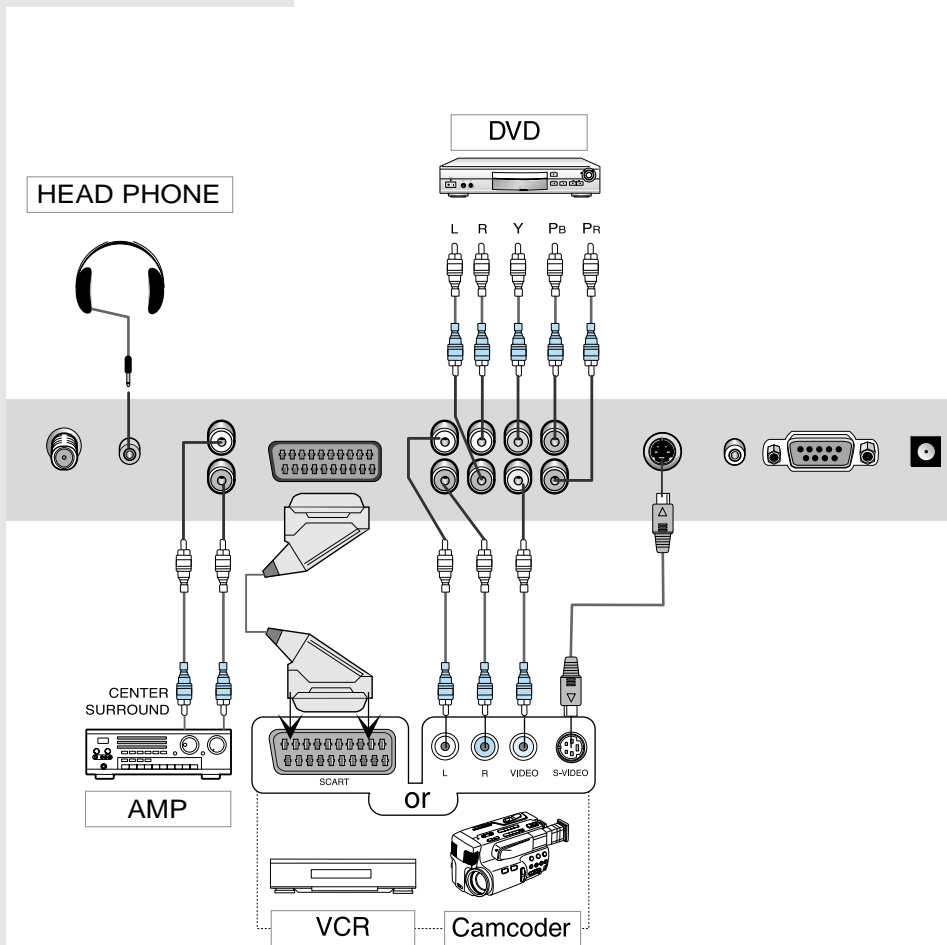
Connecting a DVD Player (Connecting to Y, Pb, Pr)

1. Connect a set of audio cables between the component **AUDIO IN** jacks on the TFT LCD TV and the **AUDIO OUT** jacks on the DVD Player.
2. Connect video cables between the Y, **Pb** and **Pr** inputs on the TFT LCD TV and Y, **Pb** and **Pr** outputs on the DVD Player.
(Note : For an explanation of Component video, see your DVD Player's owner's manual.)

Connecting

Connecting Surround Speakers

1. Connect input of an amplifier to the **SURROUND OUT** outputs of the TFT LCD TV. Then connect the surround speakers to your amp.

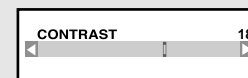
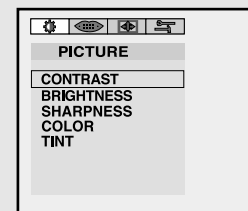





Viewing a TV/VCR/DVD screen

Adjusting the Picture Settings

Your TV have several settings which allow you to control picture quality:

CONTRAST , BRIGHTNESS, SHARPNESS, COLOR, TINT



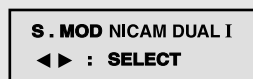
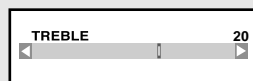
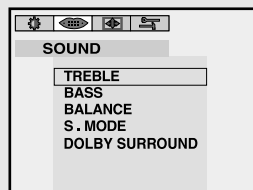
- 1 Press the **MENU**() button.
Result : The **PICTURE** menu is displayed.
- 2 Use the **CH ▼** or **CH ▲** button to select one of the following options:
CONTRAST
BRIGHTNESS
SHARPNESS
COLOR
TINT (NTSC model)
- 3 Press the **SEL**() button.
- 4 Press the **VOL ◀** or **VOL ▶** button to suit your personal preference.
- 5 Press the **MENU**() button repeatedly until the menus disappear.


Viewing a TV/VCR/DVD screen

Adjusting the Sound Settings


The sound settings can be adjusted to suit your personal preference:

TREBLE, BASS, BALANCE, S.MODE / MTS



- 1 Press the **MENU**() button.
Result: The **PICTURE** menu is displayed.
- 2 Use the **VOL ◀**, **VOL ▶** button to move the **SOUND** menu.
- 3 Use the **CH ▼** or **CH ▲** button to select one of the following options:


TREBLE	BASS
BALANCE	S.MODE (PAL model)
MTS (NTSC model)	DOLBY SURROUND

- 4 Press the **SEL**() button.
- 5 Press the **VOL ◀** or **VOL ▶** button to suit your personal preference.

• **S.MODE** : Describe below (PAL model)

	Type of broadcast	On-screen Indication
NICAM Stereo	Regular broadcast (Standard audio)	Mono (Normal use)
	Regular + NICAM Mono	Mono ↔ Nicam ↔ Mono (Normal)
	NICAM Stereo	Stereo ↔ Nicam ↔ Mono (Normal)
	NICAM Dual-I/II	Dual-I ↔ Dual-II ↔ Mono (Normal) Nicam ↔ Nicam
A2 Stereo	Regular broadcast (Standard audio)	Mono (Normal use)
	Bilingual or Dual-I/II	Dual-I ↔ Dual-II
	Stereo	Stereo ↔ Mono (Forced Mono)

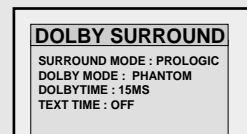
• **MTS** : To select **STEREO**, **SAP** or **MONO** (NTSC model)



- 6 Press the **MENU**() button repeatedly until the menus disappear.

Viewing a TV/VCR/DVD screen

Setting the Dolby Pro-logic

The Dolby mode allows you enjoy Dolby surround effect fully with only surround speakers are connected to TV. The Dolby Surround options(Virtual and Dolby Pro-logic) simulate the ambience of stadium or a movie theater.



- 1 Press the **MENU**() button.
Result: The **PICTURE** menu is displayed.
- 2 Use the **VOL ◀**, **VOL ▶** button to move the **SOUND** menu.
- 3 Use the **CH ▼** or **CH ▲** button to select "**DOLBY SURROUND**".
- 4 Press the **SEL**() button.
- 5 Press the **VOL ◀** or **VOL ▶** button to select **SURROUND MODE: PROLOGIC**.
The following surround modes are available:
OFF, VIRTUAL, PROLOGIC.
 - **VIRTUAL MODE** :
This mode allows the TV L/R speakers to provide a home-like Dolby effect.
The center and surround sounds are mixed up into the L/R speakers.
- 6 Press the **CH ▼** or **CH ▲** button to select "**DOLBY MODE**".

Viewing a TV/VCR/DVD screen

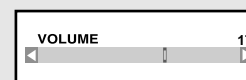
- 7** Press the **VOL ◀** or **VOL ▶** button to select the required option.
The following Dolby modes are available:
NORMAL, PHANTOM.
NORMAL : Selected when the center speaker is smaller than the main TV speakers. In Normal Mode, the sound of the center channel is output through both left and right speakers.
PHANTOM : Selected when the center speaker is either not present or not used. In Phantom Mode, the center sound is output through both left and right speakers.
- 8** Press the **CH ▼** or **CH ▲** button to select "DELAY TIME".
- 9** Press the **VOL ◀** or **VOL ▶** button to select any value between 15ms and 30ms.
Some trial-and error experimenting is necessary to find the optimal setting, which will vary according to individual preference.
- 10** Press the **CH ▼** or **CH ▲** button to select "TEST TONE".
- 11** Press the **VOL ◀** or **VOL ▶** button to test the speaker.
The following test tone modes are available:
OFF -> LEFT->CENTER->RIGHT->SURROUND.
A tone will cycle through the speakers so you can hear the surround effect and make additional changes as need.
- 12** When you have finished, press the **MENU([])** button repeatedly to return to normal viewing.

Manufactured under license from Dolby Laboratories Licensing corporation.
DOLBY, the double-D symbol and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

Viewing a TV/VCR/DVD screen

Adjusting the Volume/ Switching the Sound Off Temporarily

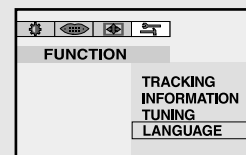
You can adjust the volume by pressing the **VOL ◀** or **VOL ▶** button on the remote control.
You can switch the sound off temporarily by pressing the **MUTE** button on the remote control, for example you may wish to answer the telephone.



- 1** Press the **VOL ▶** button to increase the volume (cursor moves to the right).
- 2** Press the **VOL ◀** button to decrease the volume (cursor moves to the left).
- 3** Press the **MUTE** button.
Result : The sound is switched off and "MUTE" is displayed.
- 4** When you wish to turn the sound back on at the same volume as before, press the **MUTE** button again (or either of the volume buttons).

Selecting the Menu Language

Choose a language for the on-screen menu : **ENGLISH, DEUTSCH or ITALIAN.**

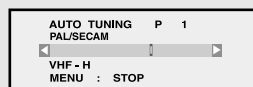
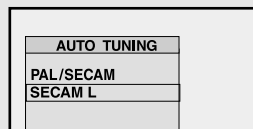
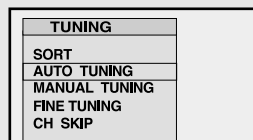
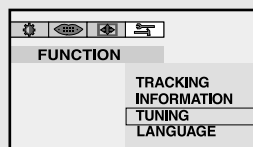






- 1** Press the **MENU([])** button.
Result : The **PICTURE** menu is displayed.
- 2** Press the **VOL ◀** or **VOL ▶** buttons to move the **FUNCTION** menu.
- 3** Press the **CH ▼** button to place the selection bar on the **LANGUAGE** mode.
And press the **SEL([])** button.
- 4** Use the **VOL ◀** or **VOL ▶** buttons to select the language.
- 5** Press the **MENU([])** button repeatedly until the menus disappear.

Channel Memory (PAL model)

Sorting the Channels Automatically

You can scan the frequency ranges available on your television in your country and store all the channels found automatically. The channels are stored in the order in which they appear in the frequency bands. It is possible that the automatically allocated numbers may not correspond to those by which you wish to identify the channels. If this is the case, you can then sort them manually.

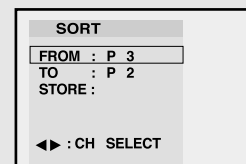



- 1 Press the **MENU**() button.
Result : The **PICTURE** menu is displayed.
- 2 Press the **VOL** ◀ or **VOL** ▶ buttons to move the **FUNCTION** menu.
- 3 Press the **CH** ▼ button to place the selection bar on the **TUNING** mode.
And press the **SEL**() button.
- 4 Press the **CH** ▼ button to place the selection bar on the **AUTO TUNING** and press the **SEL**() button.
Result: The **AUTO TUNING** menu is displayed.
- 5 Press the **CH** ▼ or **CH** ▲ button to place the selection bar on the **PAL/SECAM** or **SECAM L** and
Press the **SEL**() button.

Result : The **AUTO TUNING** will store found channel automatically. While the **AUTO TUNING** is progressing, the TV will change channels up to 99.
When searching and storing is completed, the **SORT** menu is displayed.
User can exchange favorite channels to preferred channel number.

Note ! : If the **SECAM L** is selected, all of **SECAM L** system and **PAL/SECAM** system channels will be stored and if the **PAL/SECAM** is selected, only **PAL/SECAM** system channels will be stored.

Channel Memory (PAL model)



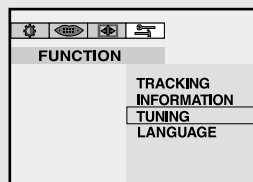
- 6 Press the **VOL** ◀ or **VOL** ▶ button until favorite channel is shown.
- 7 Press the **CH** ▼ button to place the selection bar on the **TO** option. Press the **VOL** ◀ or **VOL** ▶ until the new number by which you wish to identify the channel is displayed.
- 8 When searching and storing is complete, press the **MENU**() button repeatedly until the menus disappear.

Channel Memory (PAL model)

Sorting the Channel Manually

When storing channels manually, you can choose whether or not store each of the channels found.

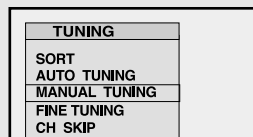
The number by which you wish to identify each stored channel.




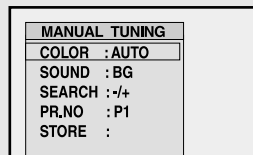
- 1 Press the **MENU**() button.
Result: The **PICTURE** menu is displayed.

- 2 Use the **VOL ◀**, **VOL ▶** button to move the **FUNCTION** menu.

- 3 Press the **CH ▼** or **CH ▲** button to select the **TUNING** option and press the **SEL**() button.
Result: The tuning menu is displayed.



- 4 Press the **CH ▼** button to place the selection bar on the **MANUAL TUNING** and press the **SEL**() button.
Result: The **MANUAL TUNING** menu is displayed.



- 5 Press the **CH ▼** or **CH ▲** button to place the selection bar on the **COLOR** and press **VOL ◀** or **VOL ▶** button repeatedly until the **COLOR** is of the best quality.
Result: The **COLOR** system is changed.

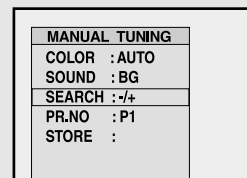
➡ AUTO -> PAL -> SECAM ◀

- 6 Press the **CH ▼** button to place the selection bar on the **SOUND** and press **VOL ◀** or **VOL ▶** button repeatedly until the **SOUND** is of the best quality.
Result: The **SOUND** system is changed.

➡ L -> BG -> DK -> I ◀

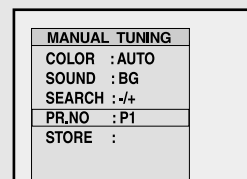
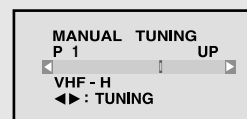
Note ! : If the **L** is selected, **SECAM-L** system channels will be stored.

Channel Memory (PAL model)

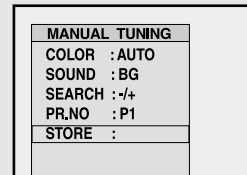


- 7 Press the **CH ▼** button to place the selection bar on the **SEARCH** and press **VOL ◀** or **VOL ▶** button to start the search.

Note ! : If the **VOL ◀** button is pressed, down search is executed and if **VOL ▶** button is pressed, up search is executed.




- 8 Press the **CH ▼** to place the selection bar on the **PR. NO** and press **VOL ◀** or **VOL ▶** button to change the favorite **PR. NO**.



- 9 Press the **CH ▼** to place the selection bar on the **STORE** and press **VOL ◀** or **VOL ▶** button to store the current tuned channel.

Result: The current channel is stored and displayed "**STORE : O.K**".

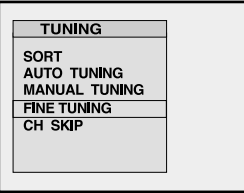
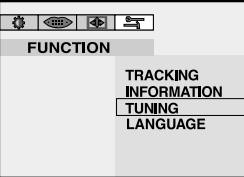
- 10 Repeat steps 7~9 for each channel to be stored.

- 11 When you have finished manual storage, press the **MENU**() button repeatedly to return to normal viewing.

Channel Memory (PAL model)

Fine Tuning Channel Reception

If the reception is clear, you do not fine-tune the channel, as this is done automatically during the search and store operation.
If however the signal is weak or distorted, you may have to fine-tune the channel manually.

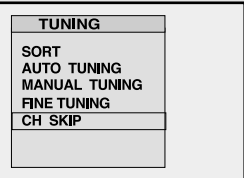
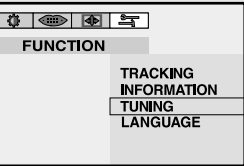


- 1 Press the **MENU**() button.
Result: The **PICTURE** menu is displayed.
- 2 Use the **VOL**◀ or **VOL**▶ button to move the **FUNCTION** menu.
- 3 Press the **CH**▼ or **CH**▲ button to select the **TUNING** option and press the **SEL**() button.
Result: The **TUNING** menu is displayed.
- 4 Press the **CH**▼ or **CH**▲ button to move the **FINE TUNING** and press the **SEL**() button.
- 5 When a channel is right viewed by using the **VOL**◀ or **VOL**▶ button, the Tuning is automatically set.
- 6 Press the **MENU**() button repeatedly until the menus disappear.

Channel Memory (PAL model)

Skipping Unwanted Channels

You can exclude the channels of your choice from the channel scan operation. When you scan through the stored channels, those you have chosen to skip are not displayed.



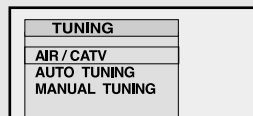
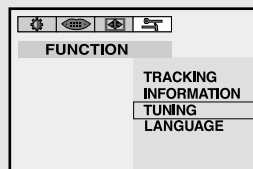
- 1 Press the **MENU**() button.
- 2 Use the **VOL**◀ or **VOL**▶ button to move the **FUNCTION** menu.
- 3 Press the **CH**▼ or **CH**▲ button to select the **TUNING** option and press the **SEL**() button.
Result: The **TUNING** menu is displayed.
- 4 Press the **CH**▼ or **CH**▲ button to move the **CH SKIP** and press the **SEL**() button.
- 5 Press the **CH**▼ or **CH**▲ button to select the required channel.
- 6 To add or erase the desired channel by pressing the **VOL**◀ or **VOL**▶.
VOL◀ : ERASE , **VOL**▶ : ADD
- 7 Press the **MENU**() button repeatedly until the menus disappear.

Channel Memory (NTSC model)

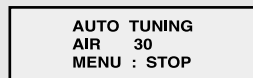
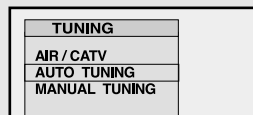
Your TV can memorize and store all of the channels available. Once the channels are memorized, you can use the **CH▼** or **CH▲** button to scan through the available channels.

Selecting the Broadcast Source

Before memorizing available channels, you must select what broadcast source your TV is connected to either an antenna or a cable system.



Sorting Channels in Memory Automatically

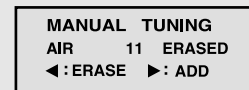
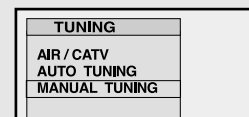
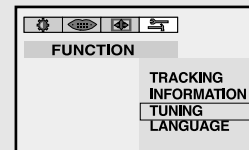


- 1 Press the **MENU()** button.
Result: The **PICTURE** menu is displayed.
- 2 Use the **VOL◀** or **VOL▶** button to move the **FUNCTION** menu.
- 3 Press the **CH▼** or **CH▲** button to select the **TUNING** option and press the **SEL()** button.
Result: The **TUNING** menu is displayed.
- 4 Use the **CH▼** or **CH▲** button to select **AIR/CATV** then press the **SEL()** button.
- 5 If antenna is connected, leave it as **AIR** displayed. If cable connected, press the **VOL◀** or **VOL▶** buttons to select **STD**.

- 1 First, select the broadcast source as described on the previous page. With the **TUNING** menu on screen, move the **CH▼** button down to select **AUTO TUNING**.
- 2 Press the **SEL()** button. The TV will begin memorizing all of the available stations.

Channel memory (NTSC model)

Adding and Erasing Channels



- 1 Use the numeric buttons to select the channel you want to add or erase.
- 2 To add a channel or erase channel, press the **MENU()** button.
- 3 Use the **VOL◀** or **VOL▶** button to select the **FUNCTION** menu.
- 4 Use the **CH▼** or **CH▲** button to select **TUNING** then press **SEL()** button.
Result: The **TUNING** menu is displayed.
- 5 Use the **CH▼** or **CH▲** button to select **MANUAL TUNING** then press the **SEL()** button.
- 6 Use the **VOL◀** or **VOL▶** button to select.
VOL◀ : ERASE, VOL▶ : ADD
- 7 Press the **MENU()** button repeatedly until the menus disappear.

Teletext (Option)

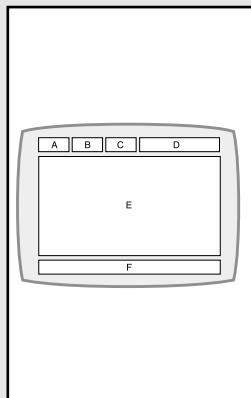
Teletext Decoder

Most television channels carry "teletext", pages of written information that provide information such as :

- Television programme tables
- News bulletins
- Weather forecasts
- Sports results
- Subtitles for the hard of hearing

The teletext pages are organized according to six categories:

Part	contents
A	Selected page number.
B	Broadcasting station identity.
C	Current page number or search status.
D	Date and time.
E	Text.
F	Status information.



Displaying Teletext Information

You can watch teletext information at any time, but signal reception must be good. Otherwise:

- Information may be missing.
- Some pages may not be displayed.

To activate the teletext mode and display the contents page :

1 Using the **CH ▲** () or **CH ▼** () button to select the channel providing the teletext service.

2 Press the **TTX/MIX** () button to activate the teletext mode.

Result: The contents page is displayed. It can be redisplayed at any time by pressing the **INDEX** () button.

3 To display the actual broadcast simultaneously with the teletext page, press the **TTX/MIX** () button.

4 To return to normal viewing, press the **TV** () button.



Teletext (Option)

Selecting a Specific Teletext Pages

Press the numeric buttons on the remote controller to enter the page number directly:

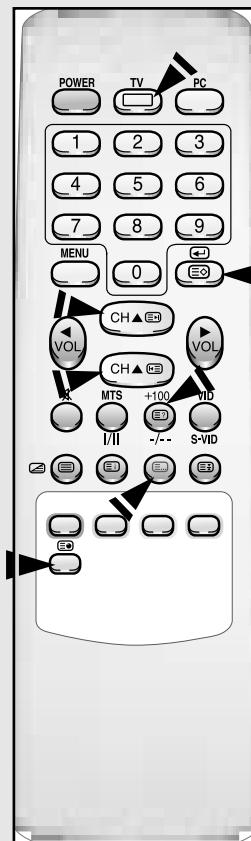
1 Enter the three-digit page number listed in the contents by pressing the corresponding numeric buttons.

Result: The current page counter is incremented and the page is then displayed.

2 If the selected page is linked with several secondary pages, the secondary pages are displayed in sequence. To freeze the display on a given page, press the **HOLD** () button. Press the **HOLD** () button again to resume.

3 Using the various display options:

To display...	Press the ...
• Both teletext information and the normal broadcast	TTX / MIX ()
• Hidden text (answers to quiz games, for example)	REVEAL ()
• The normal screen	REVEAL () again
• A secondary page, by entering its 4-digit number	SUB-PAGE ()
• The next page	PAGE UP ()
• The previous page	PAGE DOWN ()
• FLOF / LIST select	FLOF / LIST ()
• Store	STORE ()



Teletext (Option)

Using FLOF to Select a Teletext Page

The various included in the teletext pages are color-coded, and can be selected by pressing the colored buttons on the remote control.



1 Display the teletext contents page by pressing the **TTX/MIX**(/) button.

2 Press the colored button corresponding to the topic that you wish to select (The available topics are listed on the status information line).

Result: he page is displayed with additional color-coded information that can be selected in the same way.

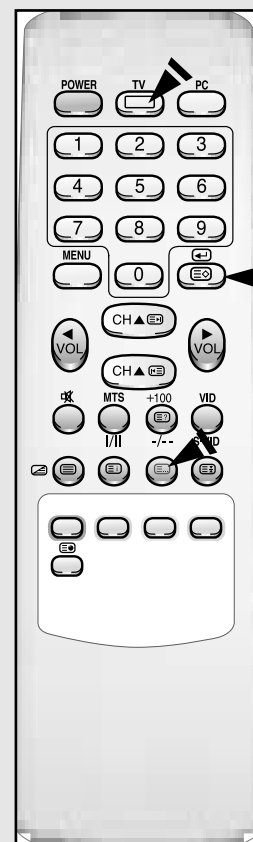
3	To display the:	Press the:
	Previous page	Red button.
	Next page	Green button.

4 When you have finished, press the **TV**() button to return to the normal broadcast.

Teletext (Option)

Sorting Teletext Pages

Up to four teletext pages can be stored.



1 Select the **LIST** mode.

Result: For 3-digit numbers are displayed in different colors at the bottom of the screen.

2 Press the colored button corresponding to the page that will be replaced.

3 Enter the new page number using the numeric buttons.

4 Repeat steps **2** and **3** for each page to be stored, using a different colored button each time.

5 Press the **STORE**() button until the corresponding blocks are displayed in white.

The **LIST**() button is used to switch between:

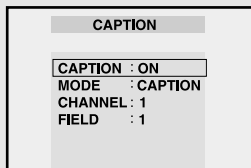
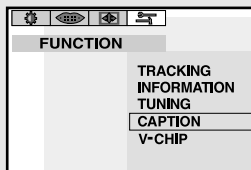
◆ **LIST mode/ FLOF mode**



Caption (Option)

Viewig Closed Captions

Your TV decodes and displays the closed caption that are broadcast with certain TV shows. These captions are usually subtitles for the hearing impaired or foreign-language translations. All VCRs record the closed caption signal from television program, so home-recorded video tapes also provide closed captions. Most pre-recorded commercial video tapes provide closed captions as well. Check for the closed caption symbol in your television schedule and on the tape's packing : **CC**

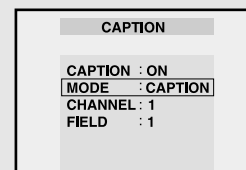
Note ! : The Caption feature dose not work with PC signals.



- 1 Press the **MENU**() button.
Result: The **PICTURE** menu is displayed.
- 2 Press the **VOL** ◀ or **VOL** ▶ buttons to move the **FUNCTION** menu.
- 3 Use the **CH** ▼ button to move the **CAPTION** and then press the **SEL**() button.
Result: The **CAPTION** menu is displayed.
- 4 Use the **VOL** ◀ or **VOL** ▶ button to turn the **CAPTION ON/OFF**.

Note ! : Misspellings and unusual characters sometimes occur during closed caption transmissions, especially those of live events. There may be a small delay before captions appear when you change channels. These are not malfunctions of the TV.

Caption (Option)



- 5 Use the **CH** ▼ or **CH** ▲ button to move **MODE**. Use the **VOL** ◀ or **VOL** ▶ button to select **CAPTION** or **TEXT**.

Note ! : In **CAPTION** mode, captions appear at the bottom of the screen, and they usually cover only a small portion of the picture. In **TEXT** mode, information is not related to the program, such as news or weather, is displayed. Text often covers a large portion of the screen.

- 6 Depending on the particular broadcast, it might be necessary to make changes to **CHANNEL** and **FIELD**. Use the **CH** ▼, **CH** ▲, **VOL** ◀ and **VOL** ▶ buttons to make the changes. (Follow the same procedure as in steps 4~5 above.)

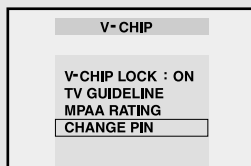
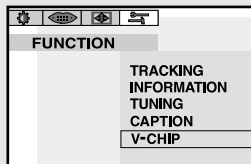
Press the **MENU** button to exit.

Note ! : Different **CHANNEL** and **FIELD** display different information: **FIELD 2** carries additional information that supplements the information in **FIELD 1**. (For example, **CHANNEL 1** may have subtitles in English, while **CHANNEL 2** has subtitles in Spanish.)

V-CHIP (Option)

Using the V-CHIP

The **V-CHIP** feature automatically locks out programming that is deemed inappropriate for children. The user must enter a PIN (personal ID number) before any of the **V-CHIP** restrictions can be up or changed.

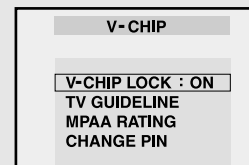
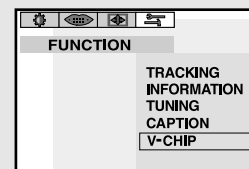


- 1 Press the **MENU**() button.
Result: The **PICTURE** menu is displayed.
- 2 Press the **VOL** ◀ or **VOL** ▶ buttons to move the **FUNCTION** menu.
- 3 Press the **CH** ▼ to move **V-CHIP** and then press the **SEL**() button.
Result: The **ENTER PIN** screen is displayed.
- 4 Enter 4-Digit PIN number
Note ! : The default PIN number for a new TV set is "0-0-0-0".
- 5 After entering a valid PIN number, the **V-CHIP** menu screen will appear.
Press the **CH** ▼ button to move the **CHANGE PIN**.
- 6 Press the **SEL**() button.
Result: The **CHANGE PIN** screen will appear.
Choose any 4-digits for your PIN and enter numbers. As soon as the 4-digits entered, the **CHANGE PIN** screen will appear.
Enter once again the same 4-digits.
When the **CHANGE PIN** screen disappears, your PIN has been memorized.
Press the **MENU**() button to exit.

Note ! : If you forgot the PIN, press the remote control keys in the following sequence, which resets the PIN to "0-0-0-0" :
POWER OFF → MUTE → 4 → 5 → 8 → 2 → POWER ON

V-CHIP (Option)

How to enable/disable the V-CHIP

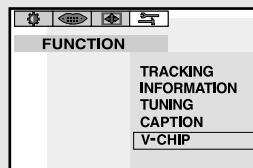


- 1 Press the **MENU**() button.
Result: The **PICTURE** menu is displayed.
- 2 Press the **VOL** ◀ or **VOL** ▶ buttons to move the **FUNCTION** menu.
- 3 Press the **CH** ▼ to move **V-CHIP** and then press the **SEL**() button.
Result: The **ENTER PIN** screen is displayed.
- 4 Enter your 4-Digit PIN number
- 5 After entering a valid PIN number, the **V-CHIP** menu screen will appear and the **V-CHIP LOCK** will be highlighted.
To enable or disable the **V-CHIP** feature, press the **VOL** ◀ or **VOL** ▶ button to turn **V-CHIP LOCK ON/OFF**.

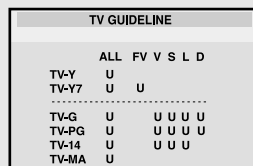
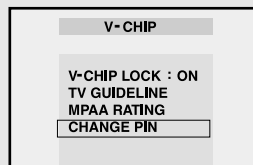
V-CHIP (Option)



How to Setup Restriction Using the “TV GUIDELINE”

First, set up a personal identification number(PIN), and enable the **V-CHIP**. (See previous section.) Parental restrictions can be set up using either of two methods : The **TV GUIDELINES** or **MPAA RATING**.



ENTER PIN: ----



- Press the **MENU**() button.
Result: The **PICTURE** menu is displayed.
- Press the **VOL ◀** or **VOL ▶** buttons to move the **FUNCTION** menu.
- Press the **CH ▼** to move **V-CHIP** and then press the **SEL**() button.
Result: The **ENTER PIN** screen is displayed.
- Enter your 4-Digit PIN number
- After entering a valid PIN number, the **V-CHIP** menu screen will appear.
Press the **CH ▼** button to select the **TV GUIDELINE**.
Press the **SEL** button.
Result: The **TV GUIDELINE** screen is displayed.
- Press the **CH ▼** or **CH ▲** button to select one of the six age-based categories :

TV-Y Young children
TV-Y7 Children 7 and Over

TV-G General audience
TV-PG Parental guidance
TV-14 Viewers 14 and Over
TV-MA Mature audience

V-CHIP (Option)

Note ! : These categories consist of two separate groups : **TV-Y** and **TV-Y7**(young children through age 7), and **TV-G** through **TV-MA** (everybody else).

The restrictions for these two groups work independently: If a household includes very young children as well as young adults, the TV guidelines must be set up separately for each age group.

- At this point, one of the TV-Ratings is selected.
Press the **VOL ▼** button: Depending on your existing setup, a letter "**U**" or "**B**" will be highlighted. (U = Unblocked, B = Blocked)
While the "**U**" or "**B**" is highlighted, Press the **CH ▼** or **CH ▲** button to block or unblock the category.

To select a different TV-Rating, press the **VOL ◀** or **VOL ▶** button not to be highlighted any of the letter "**U**" or "**B**" and repeat the process.

Note 1 : The TV-Y7, TV-PG,TV-14 and TV-MA have additional options.
See the next step to change.

FV : Fantasy Violence
V : Violence
S : Sexual Situation
L : Adult Language
D : Sexual Suggestive Dialog

V-CHIP (Option)

Note 2 : The **V-CHIP** will automatically block certain categories that are "more restrictive".
For example, if you block **TV-Y** category, then **TV-Y7** will be automatically blocked.
Similarly, if you block the **TV-G** category, then all the categories in the "young adult" group will be blocked (**TV-G**, **TV-PG**, **TV-14** and **TV-MA**).
The sub-ratings(**FV**, **D**, **L**, **S**, **V**) work together similarly.(See next Section.)

- 8** How to set the **FV**, **D**, **L**, **S** and **V** sub-ratings.
First, select one of these TV-Ratings : **TV-Y7**, **TV-PG**, **TV-14** or **TV-MA**. (See step 6.)
Next, while the TV-Rating is highlighted, repeatedly press the **VOL ►** button.
This will cycle through the available sub-ratings (**FV**, **L**, **S**, **D** or **V**).
A highlighted letter (**U**" or **"B"**) will be displayed for each sub-rating. While the **U**" or **"B"** is highlighted, Press the **CH▼** or **CH▲** button to change the sub-rating.

To select a different TV-Rating, press the **VOL ◀** or **VOL ►** button not to be highlighted any of the letter **"U"** or **"B"** and repeat the process.

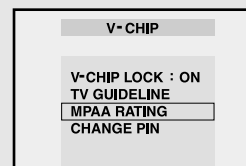
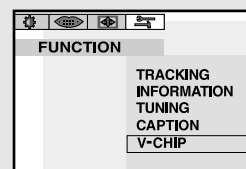
Note ! : The **V-CHIP** will automatically block certain categories that are "More restrictive".
For example, if you block **"L"** sub-rating in **TV-PG**, then the **"L"** sub-rating in **TV-14** and **TV-MA** will be automatically blocked.

Press the **MENU(□)** button to exit.

V-CHIP (Option)

How to Setup Restriction Using the MPAA RATING

The **MPAA RATING** system uses the Motion Picture Association of America(MPAA) system, and its main application is for movies.
(Eventually, movie videocassette will be encoded with **MPAA RATINGS**.)
When the **V-CHIP LOCK** is on, the TV will automatically block any programs that are with objectionable ratings. (either **MPAA** or **TV- RATINGS**)



- 1 Press the **MENU(□)** button.
Result: The **PICTURE** menu is displayed.
- 2 Press the **VOL ◀** or **VOL ►** buttons to move the **FUNCTION** menu.
- 3 Press the **CH▼** button to move the **V-CHIP** and then press the **SEL(↵)** button.
Result: The **ENTER PIN** screen is displayed.
- 4 Enter your 4-Digit PIN number
- 5 After entering a valid PIN number, the **V-CHIP** menu screen will appear.
Press the **CH▼** button to move the **MPAA RATING**.
Press the **SEL(↵)** button.

Result : The **MPAA RATING** screen is displayed.

V-CHIP (Option)

MPAA RATING

G	U
PG	U
PG-13	U
R	U
NC-17	U
X	U

NR	U

- 6** Press the **CH ▼** or **CH ▲** button to select particular **MPAA** category.
The **CH ▼** button will cycle through the **MPAA** categories.

G : General audience (no restrictions).
PG : Parental guidance suggested.
PG-13 : Parents strongly cautioned.
R : Restricted. Children under 17 should be accompanied by an adult.
NC-17 : No children under age 17.
X : Adults only

NR : Not rated.

- 7** While a particular category is selected, press the **VOL ►** button to active it.
A highlited letter ("**U**" or "**B**") will be displayed.
Press the **CH ▼** or **CH ▲** button to change the "**U**" or "**B**".

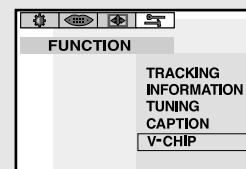
Note ! : The V-CHIP will automatically block any category that is "more restrictive".
For example, if you block the PG-13 category, then R, NC-17, and X will be automatically blocked also.

V-CHIP (Option)

How to Reset the TV after the V-CHIP Blocks a Channel ("Emergency Escape")

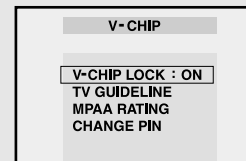
If the TV is turned to a restricted channel, the **V-CHIP** will block it.
The screen will go blank, the sound will be muted and following message will appear : "**EXCESSIVE RATING**"

To resume normal viewing, turn to a different channel by using the number buttons. Under certain conditions (depending on the rating of the local TV programs) the **V-CHIP** might lock out all the channels.
In this case, you can turn **V-CHIP** feature off by following sequence.



- Press the **MENU([])** button.
Result: The **PICTURE** menu is displayed.
- Press the **VOL ◀** or **VOL ▶** buttons to move the **FUNCTION** menu.
- Press the **CH ▼** button to move the **V-CHIP** and then press the **SEL([])** button.
Result: The **ENTER PIN** screen is displayed.
- Enter your 4-Digit PIN number
- After entering a valid PIN number, the **V-CHIP** menu screen will appear and **V-CHIP LOCK** will be highlighted. Press the **VOL ◀** or **VOL ▶** button to temporarily disable the **V-CHIP LOCK** feature.

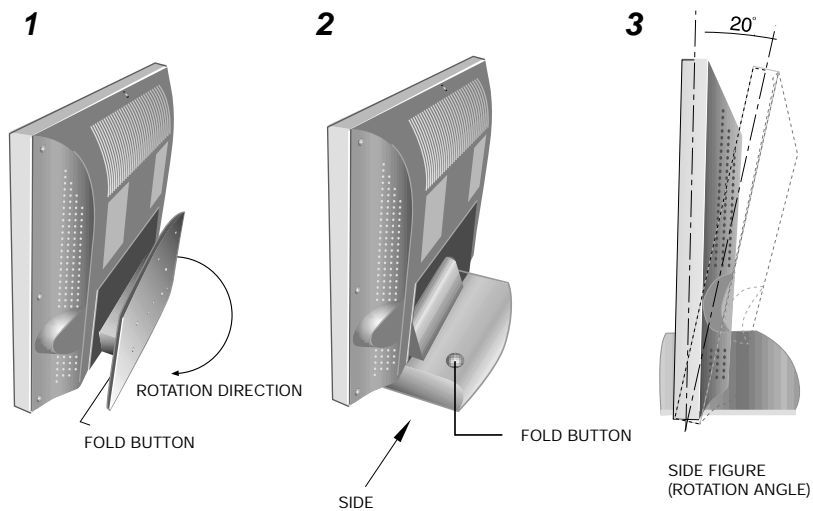
ENTER PIN: ----



About Installation of Main Body

When using as general desk type

Rotate the stand as shown in the below figure with pressing the Fold Button, and stand liquid monitor.

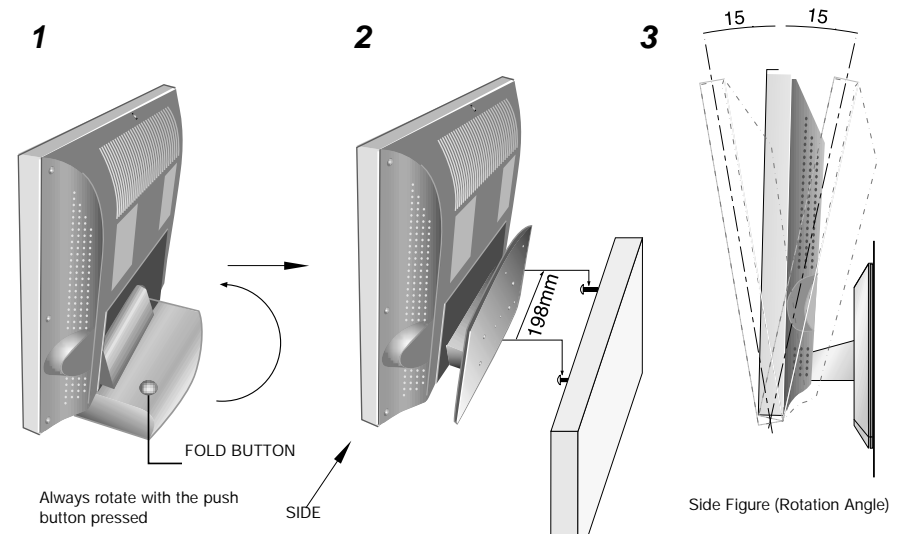



Caution!

- Make slope up to 20 degree after standing up the liquid monitor. In this case, you need not press the Fold Button.
- Press and rotate the Fold Button once again in case of entirely folding the stand backward.
- Do not rotate the stand by applying excessive force with the Fold Button not pressed. The connection part between stand and liquid monitor may be damaged.

About Installation of Main Body

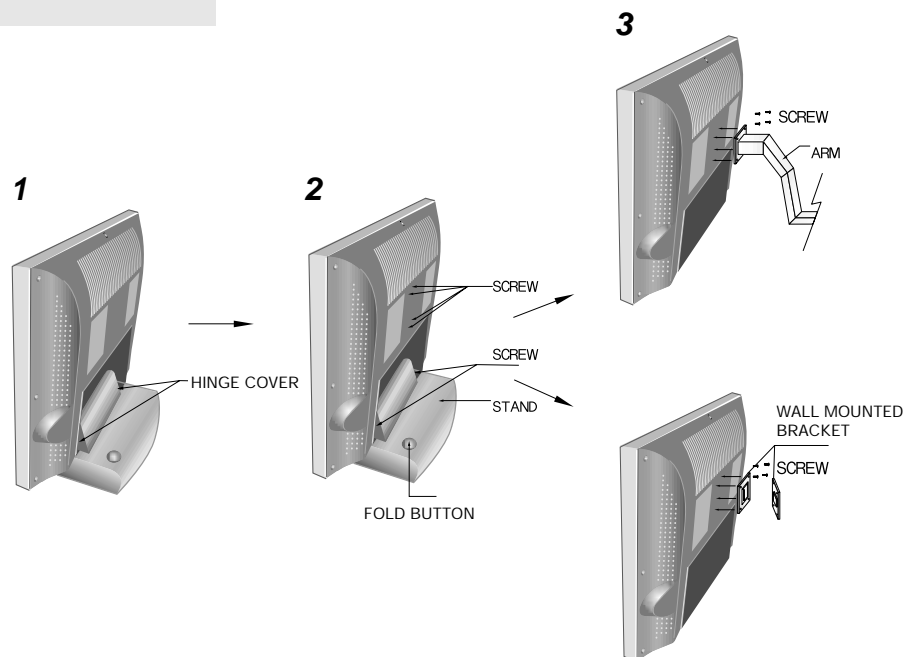
When using as wall-mounted type using stand.



1. Rotate the main body by 90 degree by pressing the fold button behind the stand.
2. Fix screws (2EA) to wall or fixtures.
3. Hang and fix screws to the  shape of the stand bottom.
4. Fix the main-body of monitor in a good looking degree (rotation degree 5 degree ~ +15 degree).

About Installation of Main Body

When using as ARM or wall-mounted type (VESA)



1. Separate a hinge cover.
2. Separate the stand after loosening screws fixing the stand.
3. Fix Arm or wall-mounted bracket at the screw holes (4 places) located in the middle part of the rear liquid monitor, with screws.

APPENDIX A : Power saver

This monitor has a built-in power management system called Power saver. This system saves energy by switching your monitor into a low-power mode when it has not been used for a certain period of time. The available modes are "On", "Standby", "Sleep" and "Deep Sleep". Power Saver operates with a VESA DPMS compliant video card installed in your computer. You use a software utility installed on your computer to set up this feature. See below table for details.

State	Normal Operation	Power-Saving Function mode (EPA / ENERGY 2000)		
		Standby Mode	Sleep Mode Position A1	Deep Sleep Mode Position A2
Horizontal Sync	Active	Inactive	Active	inactive
Vertical Sync	Active	Active	Inactive	Inactive
Video	Active	Blanked	Blanked	Blanked
Power Indicator	Green	Amber	Amber Blinking (0.5 sec interval)	Amber Blinking (1 sec. interval)
Power Consumption	50W (Max.)	Less than 3W	Less than 3W	Less than 3W

NOTE : This monitor automatically returns to normal operation when horizontal and vertical sync return. This occurs when you move the computer's mouse or press a key on the keyboard.

APPENDIX B : Display modes

If the signal from the system equals to the standard signal mode, the screen is adjusted automatically. If the signal from the system doesn't equal to the standard signal mode, adjust the mode with referring to the Videocard user guide because the screen might not display or only the power LED might be on. For the display modes listed below, the screen image has been optimized during manufacture.

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
VGA	720 * 400	31,469	70,087	28,322	- / +
	640 * 480	31,469	59,940	25,175	- / -
	640 * 480	37,500	75,000	31,500	- / -
	640 * 480	43,269	85,008	36,000	- / -
SVGA	800 * 600	46,875	75,000	49,500	+ / +
	800 * 600	53,674	85,061	56,250	+ / +
XGA	1024 * 768	48,363	60,004	65,000	- / -
	1024 * 768	60,023	75,029	78,750	+ / +
	1024 * 768	68,677	84,997	94,500	+ / +
	1280*1024	63,981	60,020	107,999	- / -
SXGA	1280*1024	74,930	70,000	125,000	- / -
	1280*1024	79,976	75,024	134,992	- / -

APPENDIX C : Troubleshooting

If you have a problem setting up or using your LCD monitor, you may be able to solve it yourself. Before contacting customer service, try the suggested actions that are appropriate to your problem.

What you see...	Suggested Actions	Reference
Screen is blank and power indicator is off	● Ensure that the power cord is firmly connected and the LCD monitor is on.	Connecting a PC, page 11.
"CHECK CABLE OR SIGNAL" message	● Ensure that the signal cable is firmly connected to the PC or video sources. ● Ensure that the PC or video sources are turned on.	Connecting a PC, TV or VCR, DVD, Page 11, 21, 22.
"INVALID MODE" message	● Check the maximum resolution and the frequency of the video adaptor. ● Compare these values with the data in the Display Modes Timing Chart.	PC Stable Adjustment, page 20. APPENDIX D: Display Modes page 50.
The image is too light or too dark	● Adjust the Brightness and Contrast.	BRIGHTNESS, page 13, 23. CONTRAST, page 13, 23.
Horizontal bars appear to flicker, jitter or shimmer on the image	● Adjust the Clock function. ● Auto Tracking will clear it automatically.	PC Stale Adjustment, page 20.
Vertical bars appear to flicker, jitter or shimmer on the image.	● Adjust the Phase function and then adjust the Clock function. ● Auto Tracking will clear it automatically.	
Screen is blank and power indicator light is steady amber or blinks every 0.5 or 1 seconds	● The monitor is using its power management system. ● Move the computer's mouse or press a key on the keyboard	APPENDIX A : Power Saver, page 50.
Image is not stable and may appear to vibrate	● Auto tracking will clear it automatically ● Check that the display resolution and frequency from your PC or video board is an available mode for your monitor. On your computer check : Control Panel, Display, Settings	PC Stable Adjustment, page 20.
	● Horizontal frequency ● Vertical frequency ● Maximum refresh rate	31 KHz - 80KHz 56Hz - 85Hz 1280 * 1024 @75Hz
Image is not centered on the screen.	● Auto Position will set the best position automatically ● Adjust the horizontal and vertical position.	AUTO POSITION, page 19. H-POSITION, page 19. V-POSITION, page 19.

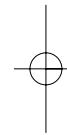
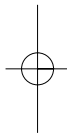
APPENDIX C : Troubleshooting

Problem	Suggested Actions	Reference
No sound	● Ensure that the audio cable is firmly connected to both the audio-in jack on your monitor and the audio-out jack on your sound card.	Connecting a PC, TV or VCR, DVD page 11, 21, 22.
	● Check the volume level	Adjusting the Sound settings, page 15, 18, 24, 27.
Sound level is too low	● Check the volume level ● If the volume is still too low after turning the control to its maximum, check the volume control on the computer sound card or software program.	
Sound is too high pitched or too low pitched	● Adjust the Treble and Bass to appropriate level.	Adjusting the Sound Settings, page 15, 18, 24, 27.
TV signal is not received	● Ensure that the antenna cable is firmly connected to the VHF/UHF jack.	Connecting to watch TV or VCR, page 21.
	● Check "Channel Memory" and make sure you choose the correct channel system.(PAL Model)	Channel Memory, page 28~35.
	● Select "Auto Tuning" to configure the channel system automatically.(PAL Model)	
	● Check AIR/CATV is correctly selected on screen display menu. (NTSC Model)	Selecting Broadcast Source, page 34.

APPENDIX D : Specification

	FUNCTION		ET-1801**
LCD Panel	Type		18.1 " TFT AM LCD
	Display Area		18.1 Inches(359.0mm x 282.2mm diagonal)
	Display Color		16,777,216
	Pixel Pitch		0.2805mm x 0.2805mm
	Recommended Resolution		1280 x 1024 @ 75Hz,80Hz
	Contrast Ratio		300 : 1 (Typical)
	Brightness		200cd/m ²
	Viewing Angle(L/R,U/D)		80°/80°, 80°/80°
	Horizontal Frequency		31 ~ 80KHz
	Vertical Frequency		56 ~ 58Hz
	Outline Dimension		412.5(H)mm x 333.0(V)mm x 22.5(D)mm
	Tilt Angle(up)		20°
Input / Output	Video Input		PC Analog RGB, 15Pin D-Sub
			Composite Video
			S-Video
			SCART(PAL Model)
			Component Video Input(DVD)
	Audio Input		PC Audio In
			Audio (L,R)
			SCART(PAL Model)
			DVD Audio
			Head Phone Out
Audio Output		SURROUND Out	
Speaker Output		10W x 2EA	
TV Signal	Antenna Input		75Ω Coaxial Cable
	Color System		PAL/SECAM (EU)
			NTSC (USA, JAPAN, KOREA)
	Sound System		B/G, D/K, I, L/L' (EU) M (USA, JAPAN, KOREA)
	Stereo Type		NICAM,A2 (EU)
			SAP, MTS (USA)
			EIA-J (JAPAN)
Text Option		TELETEXT (EU)	
		Caption(USA)	
Others	Certification		UL,FCC,CE,VCCI,MIC
	Power Supply	AC	100 ~ 240V, 50/60Hz
		DC	DC 12V, 5.0A
	Power consumption		Stan-by : 3Watt / Working : 50Watt
	FUSE		125V, 10A
	Plug & Play		DDC 1/2B
	Screen Control		On Screen Display Menu
	Weight		NET 8.0Kg / Gross 10.5Kg
Remote Controller		Yes	
Size	With Stand		524mm(W) x 437mm(H) x 220mm(D)
	Without Stand		524mm(W) x 403mm(H) x 74mm(D)

● Specification can be changed without prior notice.



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