# APPENDIX H

## : USER'S MANUAL

# User's Manual

## TFT LCD TV

# TFT COLORLCD

# TFT LCD TV

## Copyright and Trademark Notice

# TFT COLOR LCD
## Important Safety Instructions

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug.
   A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet. Consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been moisture, does not operate normally, or has been dropped.
15) The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

# TFT COLOR LCD
## Important Safety Instructions

**CAUTION**

**RISK OF ELECTRIC SHOCK**
**DO NOT OPEN**

Warning:

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

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of suffi-cient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the pres-ence of important operating and maintenance (servicing) instructions in the literature accom-panying the appli-ance.

Warning:

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

**NOTE TO CABLE/TV INSTALLER:**

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as prac-tical.

**REGULATORY INFORMATION**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to 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 communications.

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 reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

**CAUTION:**

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

# TFT COLOR LCD
## Important Safety Instructions

**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.

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 Television LCD:
doing so may create the danger of electric shock.
To avoid electric shock, never touch the inside of the Television LCD Only a qualified
technician should open the case of the Television LCD.
Never use your Television LCD if the power cord has been damaged. Do not allow
anything to rest on the power cord, and keep the cord away from areas wherepeople can trip over it.

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

Openings in the Television LCD cabinet are provided for ventilation. To prevent overheating,
these openings should not be blocked or covered. Also, avoid using the Television LCD 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 Television LCD in a bookcase or some other enclosed space, be sure to provide adequate ventilation.
Put your Television LCD in a location with low humidity and a minimum of dust.

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

Place the Television LCD 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 Television LCD near an easily accessible AC outlet.

# TFT COLORLCD

Thank you for purchasing our product.
Before using it, please read this user's manual carefully and apply it correctly and safely.
Please keep this manual close to you so you can refer to it anytime after reading it.
Also, for the transportation of the product, please attach this manual without fail.
Please observe the notes below.

1. Use at the rated power voltage.
   Use of non-rated voltage may cause fire, electric shock and breakdown.

2. Do not open the cabinet and external cover.
   The high voltage inside of this product may cause the electric shock.

3. Do not remodel or disassemble this product.
   Remodeling or disassembling in wrong method may cause fire, electric shock or breakdown.

4. Do not insert or drop any foreign substance such as metals or flammable object inside from the air hole.
   It may cause fire, electric shock or breakdown.
   If any foreign substance is inserted inside of this product, turn off the power, pull the plug out of the socket and contact the sales department. Do not use the product with the foreign substance in.

5. Do not place any vase, potted plant, cup, medicine and any container with water on this product.
   If the liquid is spilt, it may cause the fire, electric shock or breakdown.

6. Do not place this product with water nor moisten it.
   If water flows in it, it may cause the fire, electric shock or breakdown.
   If there is water inside of the product, turn off the power immediately, pull the plug out of the socket and contact the sales department.
   Do not use the product with water in it.

7. Never touch the antenna lie or power plug if it stars to thunder.
   It may cause the electric shock.

8. If any impact is applied, the parts inside of the product may be fallen out or broken to be the cause of fire, electric shock or breakdown.

9. Clean the dust on the power plug periodically.
   The dusty power plug may cause the poor insulation due to the moisture to be the reason of fire.

10. Do not destroy, process, make closer to heating device, bend or twist forcibly, place any heavy object on nor bind the power cord or power plug. If it is used in the broken condition, it may cause fire or electric shock.

11. Do not touch the power plug with wet hands.
    If you pull in or out the power plug with wet hands, it may cause electric shocks.

12. Put the power plug in firmly.
    Putting the plug incompletely may cause the electric shock or fire by the generation of heat.

13. Do not use any non-rated power socket with numerous devices jointed on one power socket or cable device.
    The wire of non-designated capacity may cause the fire due to the generation of heat.

14. In case of malfunction, turn off the power switch immediately and pull out the power plug.
    If this product is used in the abnormal condition such as damage to it, foreign substance inside of the product, generation of joints, smelling, smoking, overheating and non production of signal, it may cause fire, electric shock or breakdown.
    Turn off the power switch immediately, pull the power plug out of the socket and contact to the sales store..

15. Leave space 10 cm or more from the wall for the installation of the device.
    Do not install it close to the wall nor block the ventilation of the air.
    Insufficient ventilation or accumulated heat inside of the product may cause the fire.

16. Do not install it at the unstable location such as on the bouncing prop or tilted place.
    It may be tipped over as it loses balance or damaged as it is fallen down.

17. Do not install at the place with moisture or dust.
It may cause the fire or the electric shock

18. Do not install it at the place with poisonous gas.
It may cause the fire.

19. Do not install it at the location with continuous vibration.
It may be tipped over as it loses balance or damaged as it is fallen down.

20. Do not install it at the place on the strong magnetic field or current field.
It may cause fire, electric shock or break down.
This equipment may be observed deterioration of the picture by electromagnetic radiation in electromagnetic environment.

21. Fasten the wheel of the product or shelf with wheels when installing this product.
If it moves or is tipped over, it may be damaged.

22. Do not leave it in the car under the burning sun for a long time.
The high temperature may distort the cabinet or the parts inside may be broken down or heated.
If you use this product in this condition, it may cause the fire, electric shock or breakdown due to the short circuit or poor insulation.

23. Do not place any fire source such as candlelight close to this product or place it on this product.
If it is tipped over or fallen down, it may cause damage or fire.

24. Do not sprinkle water drops or water on this product.
It may cause the fire, the electric shock or breakdown.

25. Do not place heavy objects on this product.
It may be tipped over as it loses balance or damaged as it is fallen down.

26. Do not transport it with the power cord or the connection cable connected.
If you move this product with the power cord or the connection cable connected, the damaged power cord, connection cable or connection terminal may cause the fire, the electric shock or breakdown.

27. Pull the power cord out while holding the plug portion.
If you pull the power cord out by force, the cord may the fire or the electric shock.

28. Do not use it outdoor.
Dust or rainstorm may cause the fire, electric shock or breakdown.

29. Do not climb on this product.
If you climb on it, it may damage or hurt it.

30. 2 persons or more shall transport the device, which is heavier than 18 kg.
If you drop or tip over the device, it may damage it.
The weight is indicated on the user's manual.

31. Use the attached power cord and connection cable, or those, which are indicated on the user's manual.
If you do not use the designated power cord and connection cable, it may cause the electric shock or breakdown.

32. Turn off the power switch when connecting the power cord or connection cable.
If you not turn off when connecting it, it may cause the electric shock or breakdown.

33. Do not use any chemical such as the paint thinner or benzine to clean the cabinet.
It may scratch the surface or disappear the indication to cause wrong operation, whch can be the reason for disorder.

34. Clean the cabinet with 5~6 time diluted neutral detergent water on smooth cloth as stirring to remove the contamination.
After that, clean it with dry cloth to remove any stain.

# TFT COLORLCD
## Contents

# TFT COLORLCD
## Contents

# TFT COLOR LCD
## Front Panel



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| TV/VIDEO | MENU | – VOL + | ▼ CH ▲ | STAND BY | ON | | POWER |
| ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ |
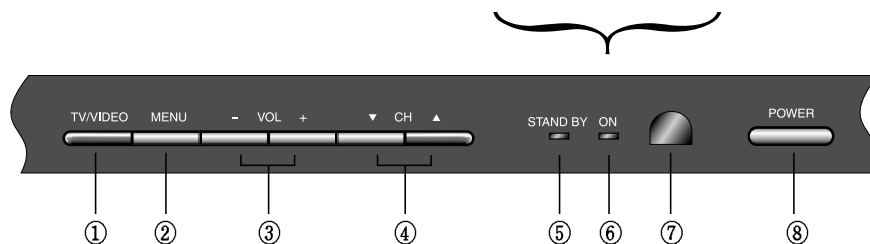
**1 TV/VIDEO**  Displays a menu of the available input sources.
(TV, Monitor)

**2 MENU**  Display the main on-screen menu. Exit from sub-menu.

**3 – VOL +**  Press the increase or decrease the volume. Also used to increase or reduce the value of a menu option.

**4 ▼ CH ▲**  Press CH▼ or CH▲ to change channels. Also used to highlight selections on the on-screen menus.

**5 STANDBY**  The color of LED is changed into RED.

**6 ON**  The color of LED is changed into GREEN.

**7 Remote Control LED**

**8 POWER**  Turns ON/OFF the LCD TV/Monitor.

# TFT COLOR LCD
## Rear Panel
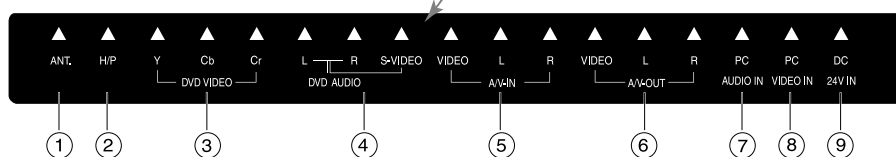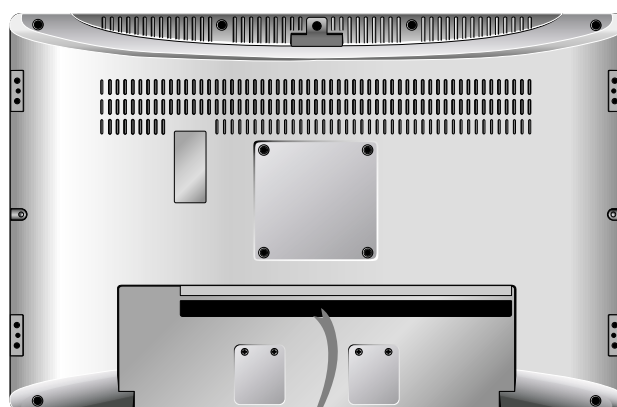


| # | Label | Description |
|---|-------|-------------|
| 1 | **VHF/UHF ANTENNA JACK** | Connect to an antenna or a cable TV system. |
| 2 | **HEAD PHONE JACK** | |
| 3 | **DVD VIDEO (COMPONENT; Y,Cb,Cr)** | Video signals from a DVD player |
| 4 | **DVD AUDIO** | Audio signals from DVD player when using the component video input jacks. |
| 5 | **A/V IN** | Video & Audio signals from VCR or similar device. |
| 6 | **A/V OUT** | Out A/V signal from TFT LCD TV |
| 7 | **PC AUDIO INPUT** | Connects to the sound-output port of a personal computer. |
| 8 | **PC VIDEO INPUT** | Used to connect a video signal from a personal computer. |
| 9 | **DC 24V IN** | To input DC power from power outlet. |

# TFT COLORLCD

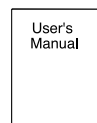## Accessory



Remote Controller
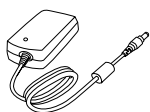
DC Power Supply

Power Cable

15-pin D-Sub Signal Cable

User's Manual

# Inserting the batteries in the remote controller

*You must insert or replace the batteries in the remote controller when you:*
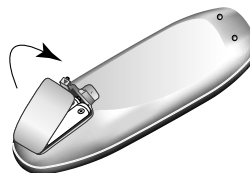Purchase the set.
Find that the remote controller is no longer operating correctly.



**1** Remove the cover of the remote controller 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.
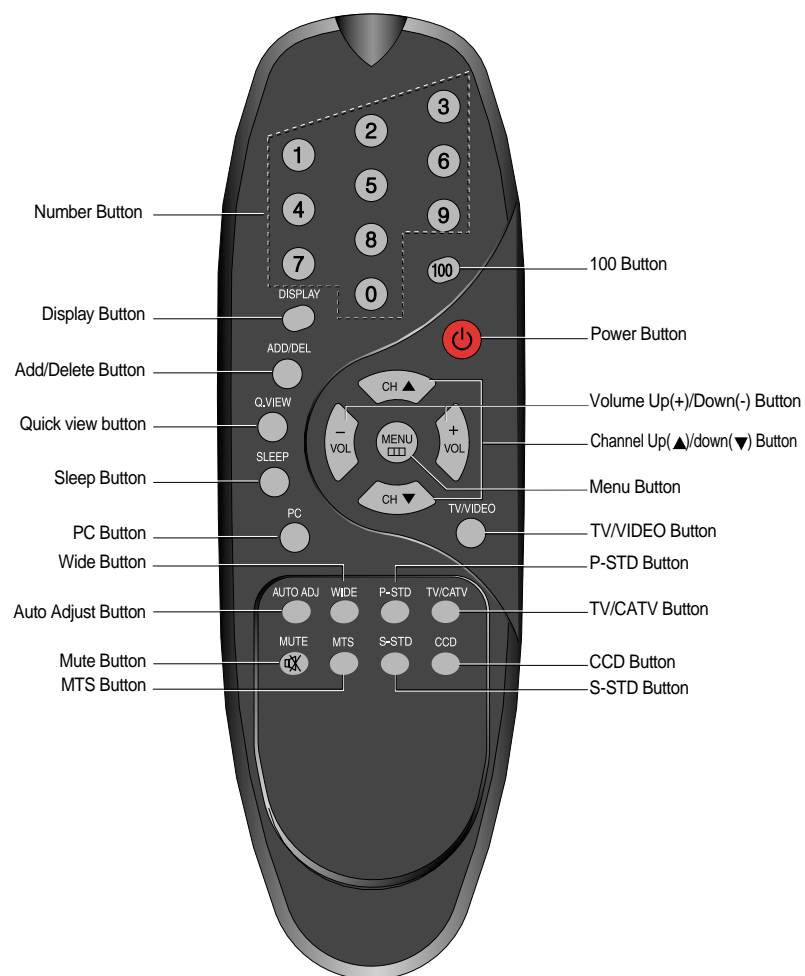
**3** Replace the cover by put in it in the direction of the arrow.

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

# TFT COLOR LCD
## Remote Control Unit

Number Button

Display Button

Add/Delete Button

Quick view button

Sleep Button

PC Button

Wide Button

Auto Adjust Button

Mute Button

MTS Button

DISPLAY

ADD/DEL

Q.VIEW

SLEEP

PC

AUTO ADJ   WIDE   P-STD   TV/CATV

MUTE   MTS   S-STD   CCD

CH ▲

− VOL        + VOL

MENU

CH ▼

TV/VIDEO

100 Button

Power Button

Volume Up(+)/Down(-) Button

Channel Up(▲)/down(▼) Button

Menu Button

TV/VIDEO Button

P-STD Button

TV/CATV Button

CCD Button

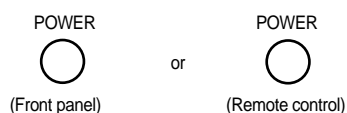S-STD Button

• Insert batteries into the Remote Control unit according to "REMOTE CONTROL USE" instruction on page 14.

• Connect the power cord to AC outlet.
   – Voltage is between 90 and 250 Volts.
   – Frequency is compatible (50/60Hz)

or

• Connect the cord to cigar jack voltage is between DC12V and DC14V

---

## TURN ON/OFF THE TV

POWER

or

POWER

(Front panel)        (Remote control)

1. Press the "POWER" button on the front panel or Press the "POWER" button on the Remote Control.
2. Press these buttons again to turn the television off.

> At stand-by mode, the LED stand-by indicator is in RED color.

---

## CHANNEL SELECTION

Use CHANNEL (▲/▼) buttons on the Remote Control (or CHANNEL (▲/▼) buttons on the front panel).

Pressing the (▲) button to advances for the higher channels, and press the (▼) button to go down for the lower channels.

> **NOTE :** Certain channels have been preset at the factory. It may be necessary to add or erase some channels in your areas. See "AUTO PROGRAM" on page 20 for presetting channels.

• Channels can be selected directly by using 10-Digit Keypad on the Remote Control.

• For example, if you select channel 5, press "0" first, then press "5". (Be sure to press "0" first, before pressing "5" for channel 5.)

• For channel 120, press the 100 button first, then press "2", "0". Also refer to the CABLE CHANNEL CONVERSION CHART below.

# TFT COLOR LCD

## ※ CABLE TV CHANNEL CONVERSION CHART

In addition to the normal TV reception from an antenna for VHF (Channels 2-13) and UHF (Channel 14-69), your TV set is equipped to receive non-scrambled cable TV channels.
SubMid band (A-8, A-5-A-1), Mid band (A-I) Super band (J-W) Hyper band (W+1 - W+28) and Ultra band (W+29 - W+84) can be received by using the channel selections as shown in the following chart.

| • | A-8 | A-5 | A-4 | A-3 | A-2 | A-1 | A | B | C | D | E | F | G | H | I | J | K | L | M | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| • • | 01 | 95 | 96 | 97 | 98 | 99 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| • | O | P | Q | R | S | T | U | V | W | W+1 | W+2 | W+3 | W+4 | W+5 | W+6 | W+7 | W+8 | W+9 | W+10 | |
| • • | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | |
| • | W+11 | W+12 | W+13 | W+14 | W+15 | W+16 | W+17 | W+18 | W+19 | W+20 | W+21 | W+22 | W+23 | W+24 | W+25 | W+26 | W+27 | W+28 | W+29 | |
| • • | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | |
| • | W+30 | W+31 | W+32 | W+33 | W+34 | W+35 | W+36 | W+37 | W+38 | W+39 | W+40 | W+41 | W+42 | W+43 | W+44 | W+45 | W+46 | W+47 | W+48 | |
| • • | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | |
| • | W+49 | W+50 | W+51 | W+52 | W+53 | W+54 | W+55 | W+56 | W+57 | W+58 | W+59 | W+60 | W+61 | W+62 | W+63 | W+64 | W+65 | W+66 | W+67 | |
| • • | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | |
| • | W+68 | W+69 | W+70 | W+71 | W+72 | W+73 | W+74 | W+75 | W+76 | W+77 | W+78 | W+79 | W+80 | W+81 | W+82 | W+83 | W+84 | | | |
| • • | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | | | |

- • Regular cable channel designations.
- • • Your TV set's corresponding on-screen CABLE channel numbers.

**Press VOLUME ( +/- ) buttons** on either the
Remote Control or( +/- ) front panel to adjust volume to your desired listening level.
Pressing the ( + ) button will increase sound volume, the ( - ) button will decrease sound volume.
The volume level is indicated on the screen by reference number (0-50)and by bar scale as shown.

```
        Volume

[████        ]        25
± : Adj.
```
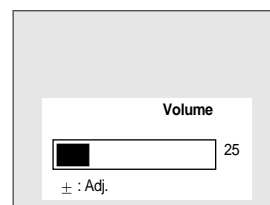
| NOTES | • The volume level can be muted instantly by pressing MUTE button on the Remote Control. See "MUTE Button" on page 39. |
|---|---|
| | • Your TV set can receive the normal TV channel(2-13) including the CABLE TV channel |

### NOTE TO CATV SYSTEM INSTALLER

This reminder is provided to call the CATV system installer's attention to article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

```
FUNCTION

LANGUAGE        English
OSD Position    Mode 1
OSD Color       Mode 1
Melody          On
CCD             Off


◆ Move  ±:Sel.  ⫿⫿⫿ :Prev.
```
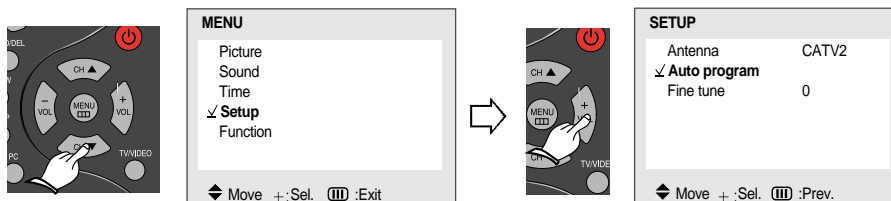
1) Press the MENU button.
2) Press the CHANNEL UP/DOWN(▲/▼) button to reach LANGUAGE mode in FUNCTION.
3) Press the VOLUME + button to select the desired language.
4) It will appear on the screen like below;
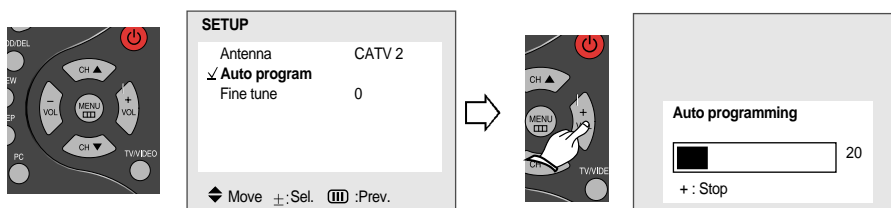
┌── → English → Español → Português → Français ──┐

5) Press the TV MENU button to exit.

## Basic Operation

1. Press POWER button to turn the TV on.

2. Press MENU button and move the cursor to "SET UP" option and press VOLUME + button, then the "SET UP" menu is displayed.

```
MENU

  Picture
  Sound
  Time
✓ Setup
  Function


◆ Move  ±:Sel.  ⫿⫿⫿ :Exit
```
⇨
```
SETUP

  Antenna          CATV2
✓ Auto program
  Fine tune        0



◆ Move  ±:Sel.  ⫿⫿⫿ :Prev.
```

3. Press VOLUME+ button to Select ANTENNA option.(TV or CATV)

4. Press CH ▲/ ▼ buttons to place cursor on the "Auto program" option and press VOL + button.

```
SETUP

  Antenna          CATV 2
✓ Auto program
  Fine tune        0



◆ Move  ±:Sel.  ⫿⫿⫿ :Prev.
```
⇨
```


Auto programming

█████            20

+ : Stop
```

5. When you have finished "Auto programming", press MENU button repeatedly until the menu disappears.

6. Press CH ▲/ ▼ buttons to Select the channel you want.

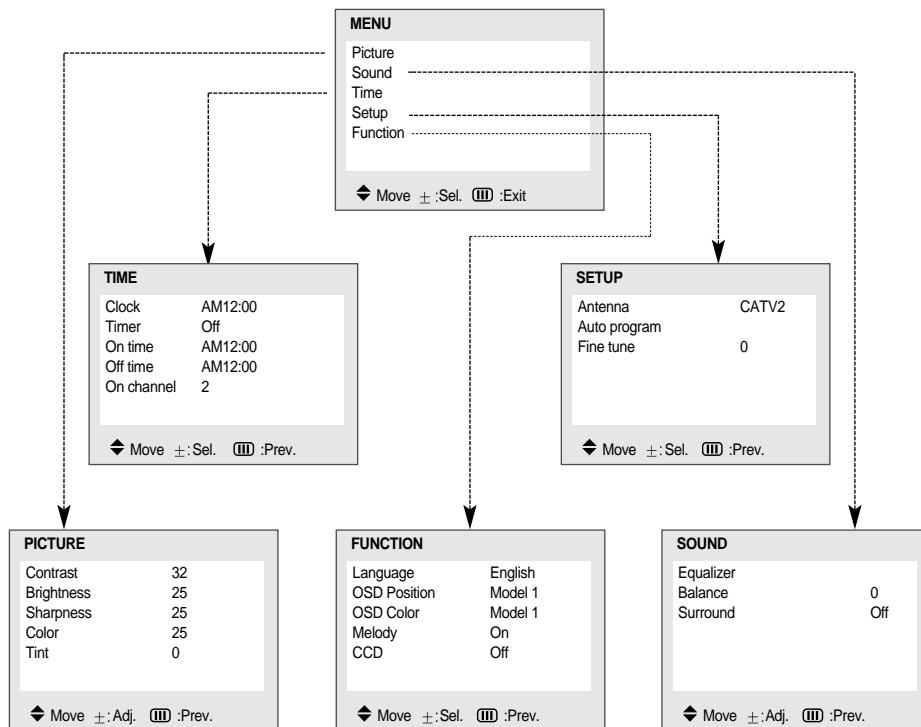7. Press VOL + or VOL - buttons to adjust volume to your desired listening level.

You can execute every operation by pressing CH ▲/ ▼ buttons and VOL +/- buttons alternately.

If you learn one method, You can easily operate another function by viewing picture.
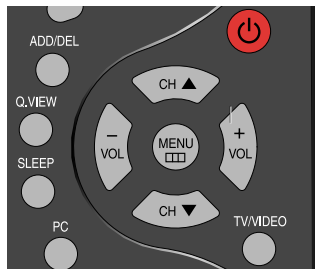
1. Pressing these buttons alternately makes every operation easy.
2. MOVE ➡ Press CH ▲/ ▼ buttons to place cursor.
3. PICTURE CHANGE ➡ Press VOL +/- buttons to change picture by inputting selected function.
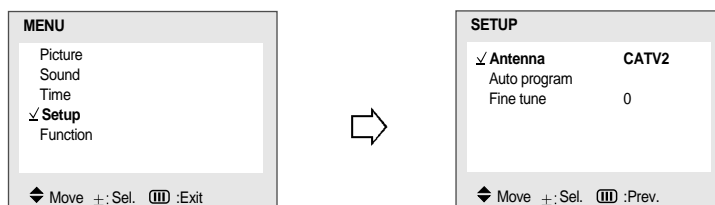
---

**MENU**

Picture
Sound
Time
Setup
Function

◆ Move  ±:Sel.  (Ⅲ) :Exit

**TIME**

| | |
|---|---|
| Clock | AM12:00 |
| Timer | Off |
| On time | AM12:00 |
| Off time | AM12:00 |
| On channel | 2 |

◆ Move  ±: Sel.  (Ⅲ) :Prev.

**SETUP**

| | |
|---|---|
| Antenna | CATV2 |
| Auto program | |
| Fine tune | 0 |

◆ Move  ±: Sel.  (Ⅲ) :Prev.

**PICTURE**

| | |
|---|---|
| Contrast | 32 |
| Brightness | 25 |
| Sharpness | 25 |
| Color | 25 |
| Tint | 0 |

◆ Move  ±:Adj.  (Ⅲ) :Prev.

**FUNCTION**

| | |
|---|---|
| Language | English |
| OSD Position | Model 1 |
| OSD Color | Model 1 |
| Melody | On |
| CCD | Off |

◆ Move  ±:Sel.  (Ⅲ) :Prev.

**SOUND**

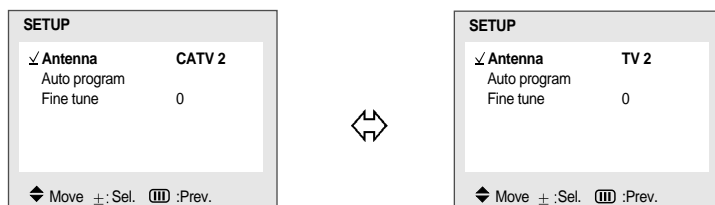| | |
|---|---|
| Equalizer | |
| Balance | 0 |
| Surround | Off |

◆ Move  ±:Adj.  (Ⅲ) :Prev.

## ANTENNA SELECTION

In this mode, you can change the broadcast mode between "TV" (for regular VHF/UHF channels) and "CATV" (for cable channels).

1. Press MENU button and move the cursor to "SET UP" option and press VOL + button then the "SET UP" menu is displayed.

```
MENU

   Picture
   Sound
   Time
√ Setup
   Function


◆ Move  ±: Sel.  ▥ :Exit
```

```
SETUP

√ Antenna          CATV2
   Auto program
   Fine tune        0



◆ Move  ±: Sel.  ▥ :Prev.
```

2. Press CH ▲/ ▼ buttons to place the cursor on the "ANTENNA" option  and press VOL + button.  You can select "TV"(on-air) or "CATV"(cable TV) broadcast mode.

```
SETUP

√ Antenna          CATV 2
   Auto program
   Fine tune        0



◆ Move  ±: Sel.  ▥ :Prev.
```

```
SETUP

√ Antenna          TV 2
   Auto program
   Fine tune        0



◆ Move  ±: Sel.  ▥ :Prev.
```

3. After you have finished selecting "ANTENNA" mode, press MENU button repeatedly until the menu disappears.

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TFT COLOR LCD

## Channel Memory (Set Up)

### AUTO PROGRAM

This function allows the channels to be memorized automatically to match the TV broadcasts and cable channels in your area.

1. Press MENU button and move the cursor to "SET UP" option and press VOL + button, then the "SET UP" menu is displayed.

```
MENU
   Picture
   Sound
   Time
 ✓ Setup
   Function

 ◆ Move  ±:Sel.  ▥ :Exit
```

⟹

```
SETUP
 ✓ Antenna        CATV2
   Auto program
   Fine tune      0

 ◆ Move  ±:Sel.  ▥ :Prev.
```

2. Press CH ▲/ ▼ buttons to place cursor on the "AUTO PROGRAM" option and press VOL + button.

```
SETUP
   Antenna        CATV 2
 ✓ Auto program
   Fine tune      0

 ◆ Move  ±:Sel.  ▥ :Prev.
```

⟹

```
Auto programming

 ■              20

 + : Stop
```
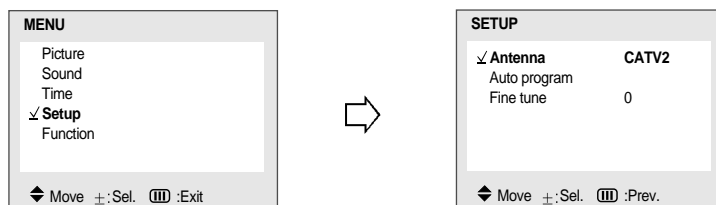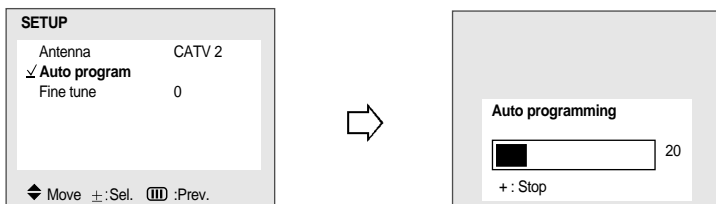
When tuned to a channel in which TV program is broadcasted, this channel is memorized and the color changes from magenta to green.
After every channels were memorized, "SET UP" menu is displayed.

3. When you have finished "AUTO PROGRAMMING", press MENU button repeatedly until the menus disappear.

```
 NOTES  • If the broadcast signal is weak, the channel will not be memorized.
        • In this case, perform the MANUAL MEMORY procedure.(Refer to the next page)
        • If you wish to stop this procedure during the operation, Press VOL + button.
```

## MANUAL MEMORY(channel add/delete)

1. TO ADD A CHANNEL

If you want to add to the memory a channel the TV did not store during AUTO PROGRAM, follow these steps.

① Press the 10-Digit Keypad button to select a channel you want to view.

② Press "ADD/DEL" button on the Remote Control.

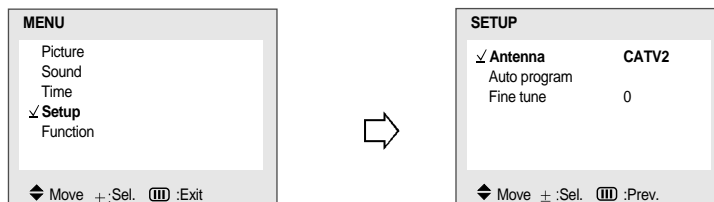The channel is added to memory and the color of the channel number changes from red to green.

☞ CH ADDING                      ☞ CH DELETING

| CATV 12 |
| Channel added |

⇔

| CATV 12 |
| Channel deleted |

• COLOR : GREEN                      • COLOR : RED
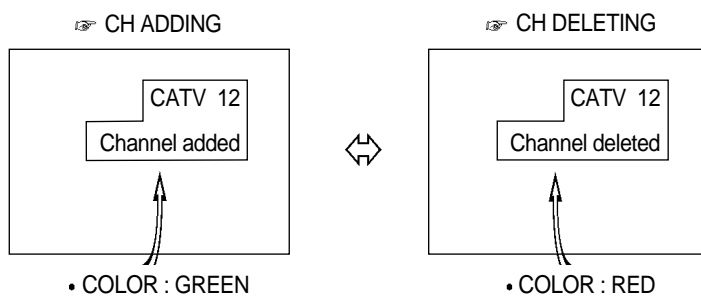
2. TO DELETE CHANNEL

You can exclude the channels of your choice from the memorized channel.
Follow these steps to delete the channel in the TV's memory.

① Press CH ▲/ ▼ buttons or Press the 10-Digit keypad button to select a channel you want to delete.

② Press "ADD/DEL" button on the Remote Control.

The channel is removed from the memory, and the color of the channel number changes from green to red.

## FINE TUNE

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

1. Press CH ▲/▼ buttons or Press the 10-Digit keypad button to adjust a channel you want.
2. Press MENU button and move the cursor to "SET UP" option and press VOL + or ▶ button, then the "SET UP" menu is displayed.

```
MENU

  Picture
  Sound
  Time
✓ Setup
  Function


◆ Move  ±:Sel.  (III) :Exit
```

⇨

```
SETUP

✓ Antenna        CATV2
  Auto program
  Fine tune      0



◆ Move  ±:Sel.  (III) :Prev.
```

3. Press CH ▲/▼ buttons to place the cursor on the "FINE TUNE" option.
4. Use VOL +/- or ◀▶ buttons until you obtain a sharp and clear picture and good sound quality.

```
SETUP

  Antenna        CATV2
  Auto program
✓ Fine tune      0



◆ Move  ±:Adj.  (III) :Prev.
```

⇨

```
SETUP

  Antenna        CATV2
  Auto program
✓ Fine tune      +1



◆ Move  ±:Adj.  (III) :Prev.
```
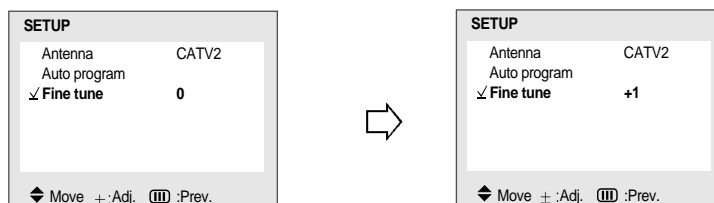
5. If you wish to memorize adjusted FINE TUNE state, press "ADD/DEL" button, and then the memorie icon is displayed.
   If you wish to initialize it, press that button again, and then the icon disappear.

```
NOTES   • The memorized channel does not operate AFT(automatic frequency tuning)mode.
        • The FINE-TUNE is operated only selected channel.
        • After the "AUTO PROGRAM", the memorized channel operate AFT(automatic
          frequency tuning)mode automatically.
```

## P-STD  BUTTON

By pressing the P-STD button on the Remote Control, you can sequentially select any one of the four possible preferred analogue picture and sound presets.
   • Whenever this button is pressed, the mode will be changed as follows.

(1) STANDARD mode
   ↓
(2) DYNAMIC mode
   ↓
(3) MILD mode
   ↓
(4) CUSTOM mode
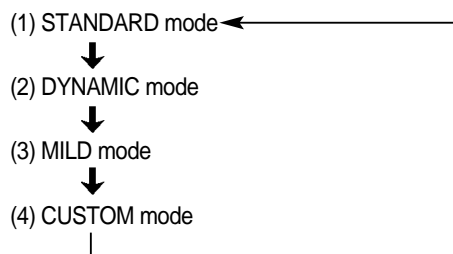
| MODE | PICTURE |
|------|---------|
| STANDARD | • Select this mode to view the<br>   factory-presetting standard picture. |
| DYNAMIC | • Select this mode to<br> -To view a powerful and clear picture.<br> -To watch in the brighter(daylight) environments. |
| MILD | • Select this mode<br> - To emphasize mildness<br> - When it is dark around<br> - To lessen the fatigue of eyes |
| CUSTOM | • Select this mode to view the<br>   adjusted picture you want. |

## USING ON-SCREEN MENU

You can sequentially select any one of the four possible preferred analogue picture presets.

**1**
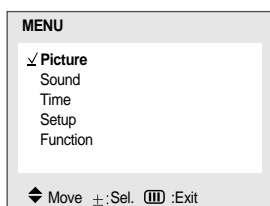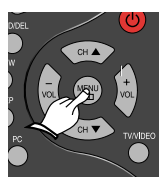
**MENU**

☑ **Picture**
Sound
Time
Setup
Function

◆ Move ±:Sel. Ⅲ :Exit

Press the MENU button. Move the cursor to PICTURE by pressing the CH ▲/ ▼ buttons and press the VOL + button.
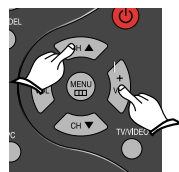
**2**

**PICTURE**

☑ **Contrast**      **32**
Brightness      25
Sharpness      25
Color      25
Tint      0

◆ Move ± :Adj. Ⅲ :Prev.
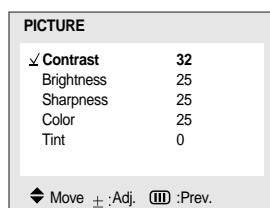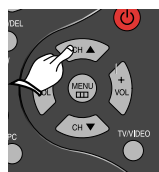
Move the cursor to PICTURE by pressing the CH ▲/ ▼ buttons.

# TFT COLOR LCD
## Picture Adjustment

You can sequentially select and adjust one of five picture levels.

• Contrast, Brightness, Color, Sharpness or Tint
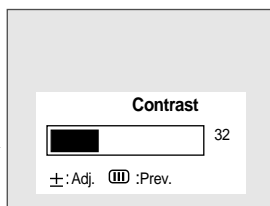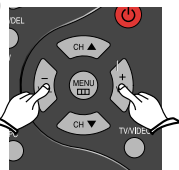
e.g. : Contrast Adjustment.

**1**
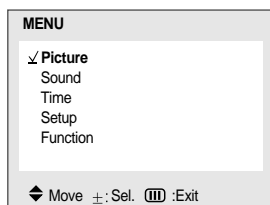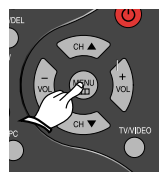
```
MENU

☑ Picture
   Sound
   Time
   Setup
   Function

◆ Move  ± :Sel.  (III) :Exit
```

Press the MENU button. Move the cursor to PICTURE by pressing the CH ▲ / ▼ buttons and press the VOL + button.
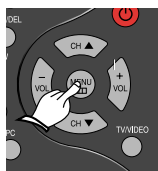
**2**

```
PICTURE

☑ Contrast      32
   Brightness   25
   Sharpness    25
   Color        25
   Tint          0

◆ Move  ± :Adj.  (III) :Prev.
```
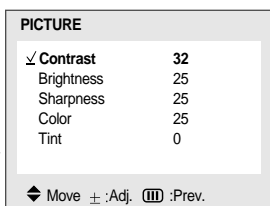
Move the cursor to CONTRAST by pressing the CH ▲/ ▼ buttons and press the VOL +/- buttons.

**3**

```
        Contrast

   ■■■■■■■■         32

± :Adj.  (III) :Prev.
```

Adjust "CONTRAST" by VOL +/- buttons.

**4**

When you have finished contrast adjustment, press MENU repeatedly until the menu disappears.
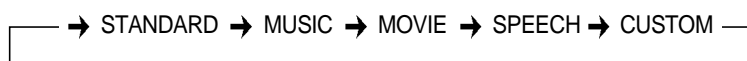
25

## S-STD BUTTON

There is a choice of five audio settings. By pressing the S.STD button, any one of five settings can be in the sequence illustrated.
  • Whenever this button is pressed, the mode will be changed as follows.

1. Press S-STD button.
   Whenever this button is pressed, the mode will be changed as follows.

➡ STANDARD ➡ MUSIC ➡ MOVIE ➡ SPEECH ➡ CUSTOM

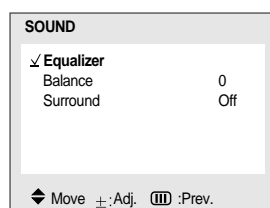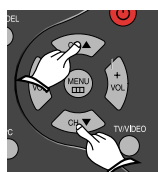| | |
|---|---|
| **STANDARD** | • Select this mode to hear the factory presetting standard sound |
| **MUSIC** | • Select this mode to hear the music |
| **MOVIE** | • Select this mode to view the movie |
| **SPEECH** | • Select this mode to hear the voice clearly |
| **CUSTOM** | • Select this mode to hear the adjusted sound you want |

## USING ON-SCREEN MENU

There is a choice of five audio settings by using the on-screen menu, the five settings can by viewed in the sequence illustrated.

**1**
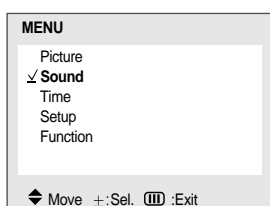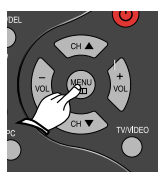
| MENU | |
|---|---|
| Picture | |
| ✓ **Sound** | |
| Time | |
| Setup | |
| Function | |
| ◆ Move  ±:Sel.  (III) :Exit | |

Press the MENU button. Move the cursor to SOUND by pressing the CH ▲/ ▼ buttons and press the VOL + button.

**2**

| SOUND | |
|---|---|
| ✓ **Equalizer** | |
| Balance | 0 |
| Surround | Off |
| ◆ Move  ±:Adj.  (III) :Prev. | |

Move the cursor to SOUND by pressing the CH ▲/ ▼ buttons.

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**EQUALIZER**

You can adjust five frequency ranges to your preference.

**1**
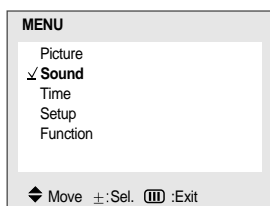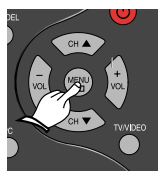
**MENU**

Picture
☑ **Sound**
Time
Setup
Function

◆ Move  ±:Sel.  ▥ :Exit

Press the MENU button. Move the cursor to SOUND by pressing the CH ▲/ ▼ buttons and press the VOL + button.

**2**

**SOUND**

☑ **Equalizer**
Balance            0
Surround          Off

◆ Move  ±:Adj.  ▥ :Prev.
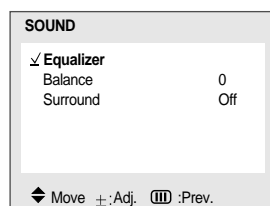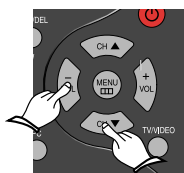
Move the cursor to EQUALIZER by pressing the CH ▲/ ▼ buttons and press the VOL + button.

**3**

**Equalizer**

| 50 | 50 | 50 | 50 | 50 |
|----|----|----|----|----|
| 120 | 500 | 1.5k | 5k | 10k |

◆ Adj.  ±:Move  ▥ :Prev.
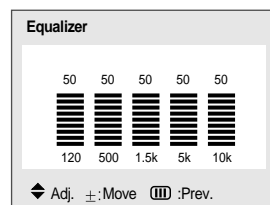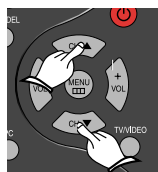
Adjust each frequency band, using CH ▲/ ▼ buttons.

**BALANCE**

SOUND MENU

---

**1**
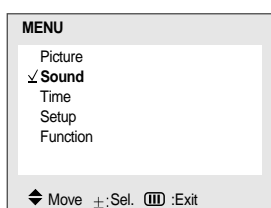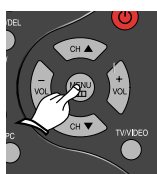
| MENU | |
|---|---|
| Picture | |
| ✓ **Sound** | |
| Time | |
| Setup | |
| Function | |
| ◆ Move ±:Sel. ⫿⫿⫿ :Exit | |

Press the TV MENU button. Move the cursor to SOUND by pressing the CH ▲ / ▼ buttons and press the VOL + button.

---

**2**

| SOUND | |
|---|---|
| Equalizer | |
| ✓ **Balance** | 0 |
| Surround | Off |
| | |
| ◆ Move ±:Adj. ⫿⫿⫿ :Prev. | |
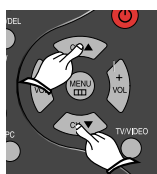
Move the cursor to BALANCE by pressing the CH ▲ / ▼ buttons.

---

**3**

**Balance**

◻◼▦◻ 0

±:Adj. ⫿⫿⫿ :Prev.
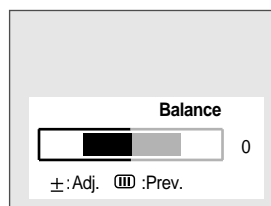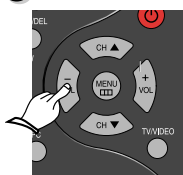
Press the VOL +/- buttons.
The Sound BALANCE is adjusted.

---

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**SURROUND SOUND**

SOUND MENU

---

**1**
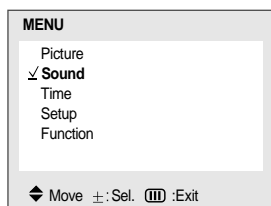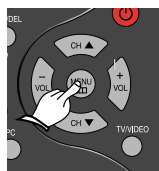
```
MENU

    Picture
  ☑ Sound
    Time
    Setup
    Function


  ◆ Move  ±:Sel.  (III) :Exit
```

Press the MENU button. Move the cursor to SOUND by pressing the CH ▲/ ▼ buttons and press the VOL + button.

---

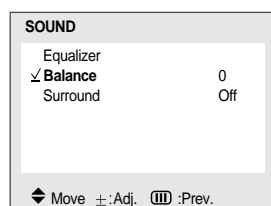**2**

```
SOUND

    Equalizer
    Balance          0
  ☑ Surround        Off



  ◆ Move  ±:Adj.  (III) :Prev.
```
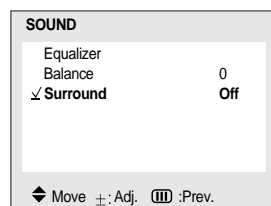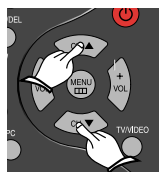
Move the cursor to SURROUND by pressing the CH ▲/ ▼ buttons.

---

**3**    Press the VOL + buttons.

  • Whenever this button is pressed, the mode will change as follows.

```
OFF  ⟺  ON
```

## MTS

**USING MTS BUTTON :**

Your TV set incorporates an MTS (Multichannel Television Sound) decoder to receive stereo broadcasts and any accompanying SAP (Second Audio Program) such as another language sound track).

1. Press the MTS button
   Depending on the audio signal type of the currently receiving broadcast, on-screen selection appears as follows:

| Receiving signal | On-screen selections |
|---|---|
| Stereo and SAP | ➞ STEREO ➞ SAP ➞ MONO ➞ |
| Stereo or SAP | STEREO ⟷ MONO   or   SAP ⟷ MONO |
| Mono | MONO only |

The "STEREO", "SAP" text indicate that MTS mode is being broadcast.

When the power is switched on or channel is changed, the "STEREO", "SAP" text are automatically displayed, depending on the current broadcast.

Stereo  SAP

**NOTES**
- If the received signal is weak, noise may be heard.
  In such a case, press MTS button to set to the MONO mode for better sound reception.
- If the received  SAP signal is weak, the SAP will not be heard.
- Even if both STEREO and SAP broadcasts are received, both broadcasts cannot be heard at the same time.
- Transmission of CABLE TV  signals may differ from off-air TV broadcasts.

## CLOCK

You can set the television's clock so that the current time will be displayed when you press the MENU button.

 • You must set the current time before you can set the automatic On/Off timer.

---

### 1

```
MENU

   Picture
   Sound
✓ Time
   Setup
   Function


◆ Move  ±:Sel.  ▥ :Exit
```
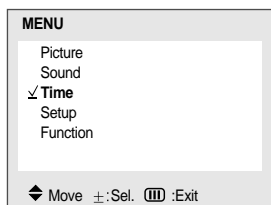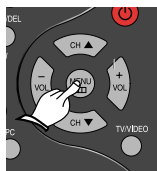
Press MENU button and move the cursor to TIME by CH ▲/ ▼ buttons.

 • Press VOL + button and press it again.

---

### 2

```
TIME

✓ Clock        AM12:00
  Timer        Off
  On time      AM12:00
  Off time     AM12:00
  On channel   2

◆ Adj.  ±: Move  ▥ :Prev.
```
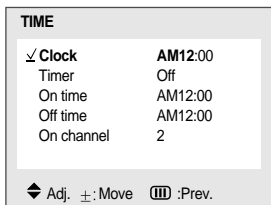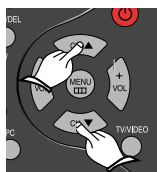
Adjust " HOUR " by CH ▲/ ▼ buttons.

 • Whenever these buttons are pressed, the hour increases or decreases by 1.

---

### 3

```
TIME

✓ Clock        AM12:00
  Timer        Off
  On time      AM12:00
  Off time     AM12:00
  On channel   2

◆ Adj.  ± :Move  ▥ :Prev.
```
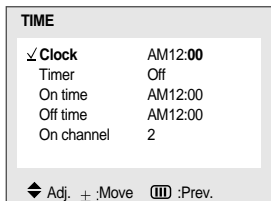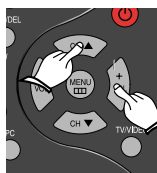
Press VOL + button and adjust "MINUTE " by CH ▲/ ▼ buttons.

 • Whenever these buttons are pressed, the minute increases or decreases by 1.

---

### 4
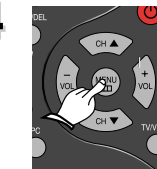
Press the MENU button to return to the main menu.

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**SLEEP TIMER**

You can select a time period from 15 through 90 minutes so that the television automatically switches to power-off mode.

In this mode, press SLEEP button on the Remote Control.
Whenever this button is pressed, the time is changed.

➜ OFF ➜ 15 ➜ 30 ➜ 45 ➜ 60 ➜ 90

**NOTE :** To  cancel the sleep timer function, in this mode, press SLEEP button repeatedly until the word " OFF "  is displayed.

## ON/OFF TIMER

The ON/OFF time lets you use alarm and automatic off function.

**1**

```
MENU

   Picture
   Sound
✓ Time
   Setup
   Function


◆ Move  ±:Sel.  (III) :Exit
```
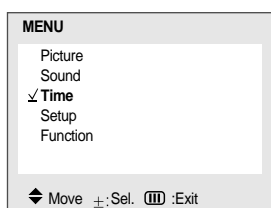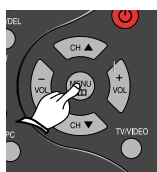
Press TV MENU button.

Move the cursor to TIME by pressing the CH ▲/ ▼ buttons and press the VOL + button.

• "TIME " is displayed on the screen.

**2**

```
TIME

   Clock        AM12:00
✓ Timer        On
   On time      AM12:00
   Off time     AM12:00
   On channel   2


◆ Move  ±: Sel.  (III) :Prev.
```
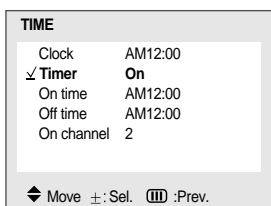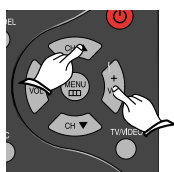
Move the cursor to Timer by CH ▲/ ▼ buttons and press VOL + button to set "TIME R ON"

| NOTES | • If you have not yet set the television's clock, the message "CLOCK STOPPED " is displayed. |
|-------|---------------------------------------------------------------------------------------------|
|       | • If this happens, refer to "CLOCK " on the previous page.                                   |
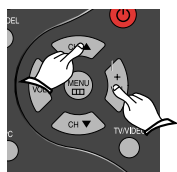
# 3

**TIME**

| Clock | AM12:00 |
|---|---|
| Timer | On |
| ☑ **On time** | **AM12:00** |
| Off time | AM12:00 |
| On channel | 2 |

◆ Adj. ±:Move (III) :Prev.

Move the cursor to "ON TIME" by CH ▲/ ▼ buttons and move the cursor "AM12:00" by VOL+/- and then press the CH▲/ ▼ buttons to set the time.

# 4
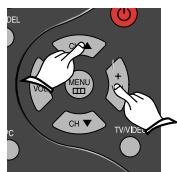
**TIME**

| Clock | AM12:00 |
|---|---|
| Timer | On |
| On time | AM12:00 |
| ☑ **Off time** | **AM12:00** |
| On channel | 2 |

◆ Adj. ±:Move (III) :Prev.

Move the cursor to "OFF TIME" by CH ▲/ ▼ buttons and move the cursor "AM12:00" by VOL+/- and then press te CH buttons to set the time.

# 5
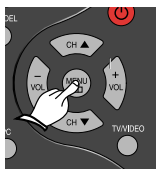
Press "MENU" to return to the main menu.

※ **AUTOMATIC POWER OFF MODE**

If the set is not switched off when the TV station stops broadcasting, it will automatically go to power-off mode after about 15 minutes.

| NOTES | • If you set "ON TIME" and "OFF TIME" with the same time, the "ON/OFF TIME" will be clear and please set again the "ON/OFF TIME". |
|---|---|
| | • If the power is disconnected (in case of a power failure) and reapplied later, the clock operation will stop. |

## ON TIME CHANNEL NUMBER

• You can select the channel on which the TV turns on as programmed by ON-TIMER.
• This function will not work if the TIMER is set to OFF or the current time has not been set.
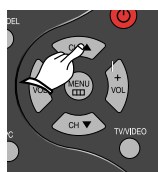
**TIME**

| | |
|---|---|
| Clock | AM12:00 |
| Timer | On |
| On time | AM12:00 |
| Off time | AM12:00 |
| ☑ **On channel** | **2** |

◆ Move ± :Sel.  Ⅲ :Prev.

1) Move cursor to ON CHANNEL and press VOL + button the color of the channel number changes to white.
2) Set channel number you want use CH ▲/ ▼ buttons.

# TFT COLOR LCD
## Function

1. Press the TV MENU button. Move the cursor to a FUNCTION by pressing the CH ▲/
   ▼ buttons. Adjust it by pressing the VOL + button.

```
┌─────────────────────────────┐
│ MENU                        │
│                             │
│ ☑ Picture                   │
│   Sound                     │
│   Time                      │
│   Setup                     │
│   Function                  │
│                             │
│ ◆ Move  ±: Sel. ▥ :Exit    │
└─────────────────────────────┘
```

```
┌─────────────────────────────┐
│ MENU                        │
│                             │
│   Picture                   │
│   Sound                     │
│   Time                      │
│   Setup                     │
│ ☑ Function                  │
│                             │
│ ◆ Move  ±: Sel. ▥ :Exit    │
└─────────────────────────────┘
```

```
┌─────────────────────────────┐
│ FUNCTION                    │
│                             │
│ ☑ Language      English     │
│   OSD Position  Mode 1      │
│   OSD Color     Mode 1      │
│   Melody        On          │
│   CCD           Off         │
│                             │
│ ◆ Move  ±: Sel. ▥ :Prev.   │
└─────────────────────────────┘
```

---
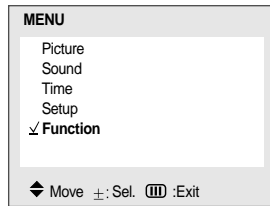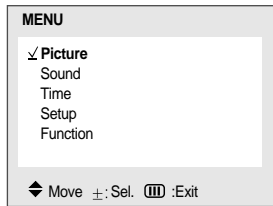
## LANGUAGE

• You can select language among English, Español,
  Portugues and Fancais by pressing +VOL button.

```
┌─────────────────────────────┐
│ FUNCTION                    │
│                             │
│ ☑ Language      English     │
│   OSD Position  Mode 1      │
│   OSD Color     Mode 1      │
│   Melody        On          │
│   CCD           Off         │
│                             │
│ ◆ Move  ±: Sel. ▥ :Prev.   │
└─────────────────────────────┘
```
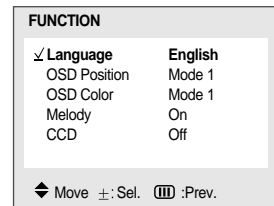
---
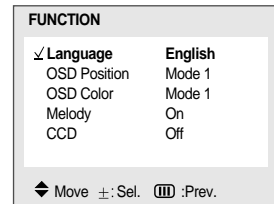
## OSD POSITION

Press VOL +/- button and then the position of picture
   will be changed as shown below.

```
┌─────────────────────────────┐
│ FUNCTION                    │
│                             │
│   Language       English    │
│ ☑ OSD Position   Mode 1     │
│   OSD Color      Mode 1     │
│   Melody         On         │
│   CCD            Off         │
│                             │
│ ◆ Move  ±: Sel. ▥ :Prev.   │
└─────────────────────────────┘
```

Mode 1 ⟷ Mode 2

Mode 5

Mode 4 ⟷ Mode 3
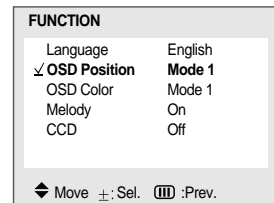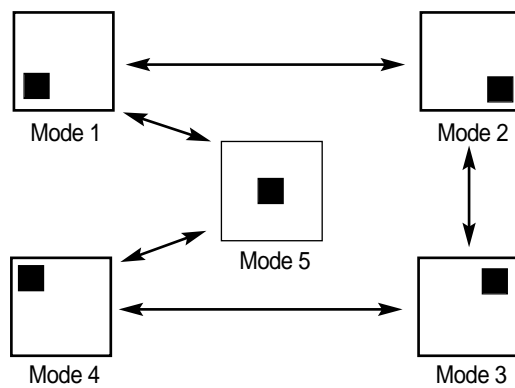
## OSD COLOR

It will press the VOL+/- and there is a possibility which it will change with color lower part.

```
FUNCTION

  Language        English
  OSD Position    Mode 1
✓ OSD Color       Mode 2
  Melody          On
  CCD             Off

◆ Move  ±:Sel.  Ⅲ :Prev.
```

→ Mode 1 → Mode 2 → Mode 3 → Mode 4 → Mode 5 →

## MELODY

It will press the VOL+/- and there is a possibility sound the ON/OFF power.

```
FUNCTION

  Language        English
  OSD Position    Mode 1
  OSD Color       Mode 1
✓ Melody          On
  CCD             Off

◆ Move  ±:Sel.  Ⅲ :Prev.
```

→

```
FUNCTION

  Language        English
  OSD Position    Mode 1
  OSD Color       Mode 1
✓ Melody          Off
  CCD             Off

◆ Move  ±:Sel.  Ⅲ :Prev.
```
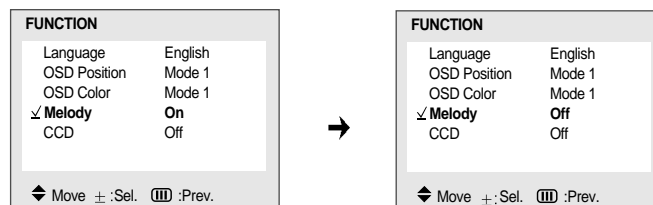
✠ **TV/VIDEO :** Select Input signal.    → TV/CATV → VIDEO → S-VIDEO → YUV → PC →

✠ **WIDE :** Select Wide/Normal display

✠ **TV/CATV :** Select TV/CATV signal.

✠ **Auto Adjust :** Auto adjusting the screen in PC mode.

✠ **PC :** Select PC signal.

✠ **CCD :**

- This TV set incorporates a CCD (Closed Caption Decoder) to enable viewing of CCD and TEXT broadcasts.
- CLOSED CAPTION and TEXT each have 2 channels (CH1 & CH2).
- CCD and TEXT information can only be viewed if they are being broadcast by a television station, or contained in a videotape or videodisc.
- Press the CCD button to select CCD mode.

$$\rightarrow OFF \rightarrow CCD1 \rightarrow CCD2 \rightarrow TEXT1 \rightarrow TEXT2$$

※ **CAPTION OPERATION AND CHARACTERISTICS :**

- After the set is turned on, caption signals will be displayed on screen (if broadcasted) in about 10 seconds. Once activated, the television will always remain in caption mode unless deactivated by the CCD button.
- Captions appear on screen in various positions where they will least interfere with the picture Generally captions will be displayed at the top or bottom of the screen.
- It is common to see unusual characters or misspelled words appearing in the caption. This is especially true during a live broadcast as captions are created while the program is in progress.

---

**NOTES**
- When any function is displayed on screen, captions can not be seen, captions will reappear after display disappears.
- Errors will occur in captioning if the signal is weak or the videotape/videodisc is poorly recorded. A videotape that has been recorded over numerous times can also cause caption malfunction.

---

✠ **QUICK VIEW Button :** Press QUICK VIEW button on the Remote Control. The previously viewed channel will appear on the screen. Press QUICK VIEW again to switch back to the original channel.
Repeatedly pressing QUICK VIEW switches between these two channels.

✠ **DISPLAY BUTTON :** Press DISPLAY button on the Remote Control. The channel number of the program you are now viewing, the TIMER settings and the current time are displayed in the order as shown on the right by pressing the DISPLAY button.
The current time remains displayed on the screen, when DISPLAY button is pressed again.

✠ **MUTE BUTTON :** Press MUTE button on the Remote Control. The sound of the TV program being viewed will be reduced to zero and "MUTE" will appear on the screen.

---

**NOTE** : Changing the audio volume also restores the sound.

---

The most common types of television interference are as follows:

**IGNITION :**

Black spots or horizontal lines may appear, picture may flutter or drift. Usually caused by interference from automobile ignition systems, neon lamps, electric drills and other electric appliances.

**GHOSTS:**

Ghosts are caused by the television signal following two paths. One is the direct path and the other is reflected from tall buildings, hills or other objects. Changing the direction or position of the antenna may improve the reception.

**SNOW:**

If you are located on the fringes of a television reception area, the signal will be weak, and your picture may contain many small dots. When the signal is extremely weak, it may be necessary to install an external antenna to improve the picture.

**RADIO FREQUENCY INTERFERENCE:**

This interference produces moving ripples or diagonal streaks, and in some cases causes loss of contrast in the picture.

**PICTURE SIZE VARIATION:**

A slight variation in picture size is normal when you adjust the CONTRAST or BRIGHTNESS controls.

**NOTE**: If you subscribe to a cable service and any these symptoms appear, the problem may be caused by the cable company.
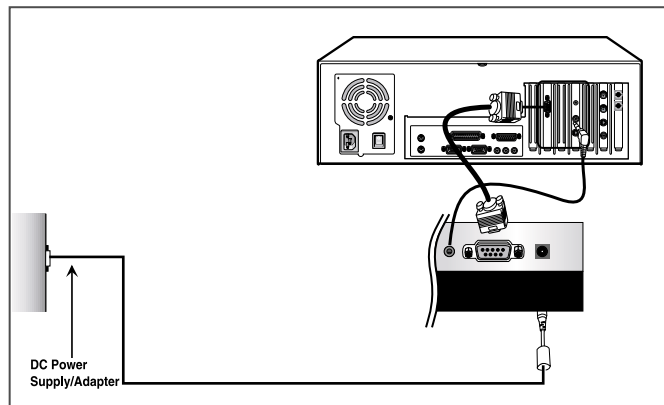
To prevent fire of shock hazard, disconnect your unit from the AC power source when cleaning. The finish on the receiver may be cleaned with a dust cloth and cared for as other furniture. Use caution when cleaning and wiping the pla stic parts. Mild soap and a soft, damp cloth may be used.
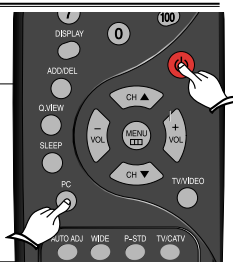
## Connecting a PC



DC Power
Supply/Adapter

| 1 | Turn off your computer and LCD TV. |
|---|---|
| 2 | Connect a PC D-sub cable between your PC and PC-VIDEO-IN of the LCD TV. 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 LCD TV. |
| 4 | Connect a DC Power unit cable to the power jack on the rear of your LCD TV. 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 LCD TV. |

## Initial set PC mode

| 1 | Power on your LCD TV by pressing the POWER button on the main set or on the remote controller. |
|---|---|
| 2 | Press the PC button on the remote controller 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.) |

| 1 | In PC mode, press the **MENU** button. |
| 2 | Press the VOL+ button to select the "**window**". |
| 3 | Press the VOL+ button the select the "**Auto adjust**", then press the VOL+ button. |
| 4 | When you are satisfied with the settings, press the MENU button repeatedly to return to normal viewing. |

Your LCD TV has several settings which allow you to control picture quality.
Contrast, Brightness, Color Temperature

| 1 | In PC mode, press the menu button. |
| 2 | Press the VOL+ button to select the "**Picture**". |
| 3 | Press the CH ▲/▼ button to select one of the following options:<br>       Contrast<br>       Brightness<br>       Color Temperature<br>       Reset |
| 4 | Press the VOL+ button. |
| 5 | Adjust to satisfy your preference by pressing the VOL+ or VOL- button. |

- **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 reddish white to bluish white. The individual color components are also user customizable.
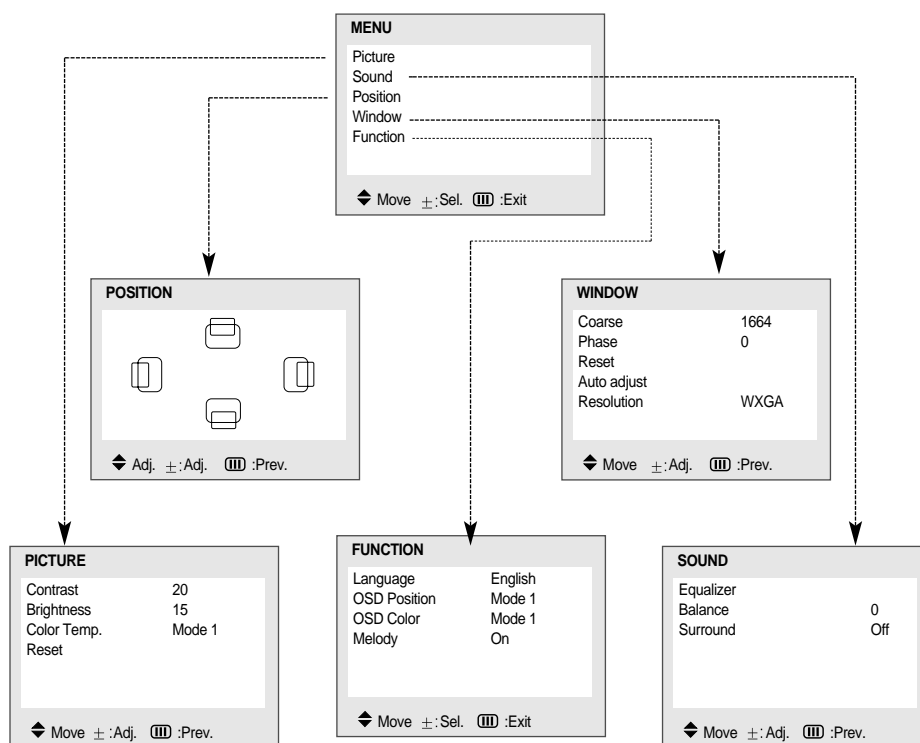- **Reset:** Sets Contrast "20", Brightness "15" and Color Temp. "Mode 3".

Adjusting the Color temperature setting
- Press the CH▲ / ▼ button to select "Color Temperature" in picture mode.
- Press the VOL+ button.
- Press the VOL+ button to select "Mode 1~5
- Adjust to satisfy your preference by pressing the VOL+ or VOL - button.

6    When you are stisfied with the settings, press the MENU button repeatedly to return to normal viewing.

**MENU**

Picture
Sound
Position
Window
Function

◆ Move  ±:Sel.  (III) :Exit

**POSITION**

◆ Adj.  ±:Adj.  (III) :Prev.

**WINDOW**

Coarse          1664
Phase           0
Reset
Auto adjust
Resolution      WXGA

◆ Move  ±:Adj.  (III) :Prev.

**PICTURE**

Contrast        20
Brightness      15
Color Temp.     Mode 1
Reset

◆ Move  ± :Adj.  (III) :Prev.

**FUNCTION**

Language        English
OSD Position    Mode 1
OSD Color       Mode 1
Melody          On

◆ Move  ±:Sel.  (III) :Exit

**SOUND**

Equalizer
Balance          0
Surround         Off

◆ Move  ±: Adj.  (III) :Prev.
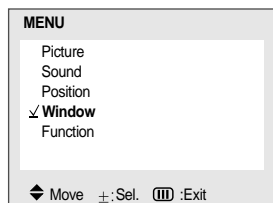
When the screen is unstable in PC settings, or to make your PC stable by adjusting Coarse and Phase, set the PC in the following sequence;

```
MENU
   Picture
   Sound
   Position
 ✓ Window
   Function


◆ Move   ±:Sel.   Ⅲ :Exit
```

| 1 | Press the MENU button. |
|---|---|

| 2 | Press the VOL+ button to select "Window". |
|---|---|

| 3 | Press the VOL+ or VOL- button to select "Auto Adjusting". |
|---|---|

| 4 | Press the CH▲ or CH▼ button to select one of the following options:<br>Coarse, Phase, Reset, Auto Adjusting |
|---|---|

5    To adjust the ..    Press the...
Auto Adjusting    VOL+ or VOL- button.
Coarse    VOL+ or VOL- button.
Phase VOL+ or VOL- button.

NOTE    **Coarse:**
Adjusts the horizontal size of screen by increasing/decreasing the number o pixels.

**Phase:**
Sets the focus of screen.
Adjusts when some noise exists or the character lines are seen overlapped.

**Reset:**
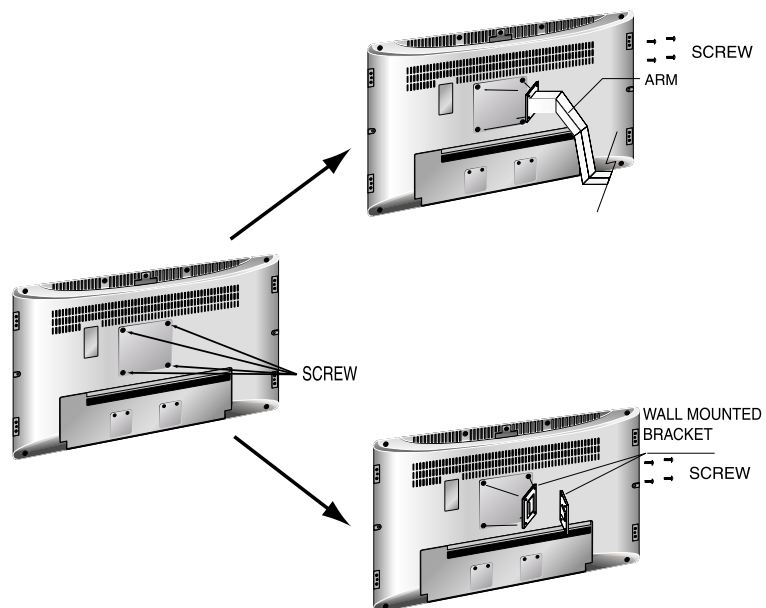Sets "Coarse 1664" and Phase "0"

**Auto adjusting:**
Automatically optimizes the status of screen.
This is recommended to perform for new PC.

| 6 | When you are satisfied with the settings, press the **MENU** button repeatedly to return to normal viewing. |
|---|---|

44

SCREW

ARM

SCREW

WALL MOUNTED
BRACKET

SCREW

- Remove a hinge cover.

- Remove the stand after loosing screws fixing the stand.

- Fix Arm or wall-mounted bracket at the screw holes (4 places)
  located in the middle part of the rear LCD TV, with screws.

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 LCD might be on. For the display mode listed below, the screen image has been optimized during manufacture.

| Mode | Resolution | Horizontal Frequency (KHz) | Vertical Frequency (Hz) | Pixel Clock Frequency (MHz) |
|------|-----------|----------------------------|-------------------------|------------------------------|
| VGA | 640 * 480 | 31.469 | 59.940 | 25.175 |
| SVGA | 800 * 600 | 37.800 | 60.000 | 40.000 |
| XGA | 1024 * 768 | 48.363 | 60.004 | 65.000 |
| WXGA | 1280 * 768 | 47.700 | 60.000 | |

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 |
|---|---|
| Screen is blank and power indicator is off | • Ensure that the power cord is firmly connected and the LCD monitor is on. |
| "CHECK CABLE OR SIGNAL" message | • Ensure that the signal cable is firmly connected to the PC or video sources. <br> • Ensure that the PC or video sources are turned on. |
| "INVALID MODE" message | • Check the maximum resolution and the frequency of the video adaptor. <br> • Compare these values with the data in the display modes timing chart. |
| The image is too light or too dark | • Adjust the Brightness and Contrast. |
| Horizontal bars appear to flicker, jitter or shimmer on the image | • Adjust the Clock function. <br> • Auto Tracking will clear it automatically. |
| Vertical bars appear to flicker, jitter or shimmer on the image. | • Adjust the Phase function and then adjust the clock function. <br> • 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. <br> • Move the computer's mouse or press a key on the keyboard. |
| Image is not stable and may appear to vibrate | • Auto tracking will clear it automatically <br> • 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** |
| Image is not centered on the screen. | • Auto Position will set the best position automatically <br> • Adjust the horizontal and vertical position. |

| Problem | Suggested Actions |
|---|---|
| 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.<br>• Check the volume level |
| Sound level is too low | • Check the volume level<br>• If you volume is still to 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. |
| TV signal is not received | • Ensure that the antenna cable is firmly connected to the VHF/UHF jack.<br>• Check "Channel Memory" and make sure you choose the correct channel system. (PAL Model)<br>• Select "Auto Tuning" to configure the channel system automatically. (PAL Model)<br>• Check AIR/CATV is correctly selected on screen display menu. (MENU Model) |

|  |  | 23" (wide) |
|---|---|---|
| Panel | Panel Type | 23"(Wide) |
|  |  | TFT Color LCD |
|  | Display Area | 508.1mm x 285.7mm |
|  | Display Color | 16.7million |
|  | Recommended Resolution | 1366 x 768 @H:47.7KHz, 60Hz |
|  | Contrast Ratio | 550:1 (Typical) |
|  | Brightness | 500cd/m$^2$ |
|  | Viewing Angle | H:176$^\circ$ V:176$^\circ$ (Typical) |
|  | Scanning Frequency | H:31.5-47.7KHz V:60-72Hz |
| In/Out | PC | Analog RGB 15 pin D-sub |
|  |  | PC Audio Input |
|  | Video | Composite Input |
|  |  | Composite Output |
|  |  | S-Video In |
|  |  | DVD (Y,P$_b$,P$_r$) Input |
| TV Signal | Audio | Composite Input |
|  |  | DVD Input |
|  |  | Head-phone Out |
|  | Antenna | 75ohm Coaxial cable |
|  | Color System | NTSC TRI |
|  | Stereo Type | MTS |
|  | Text | Caption |
|  | Certifications | CB (IEC60065) |
| Others | Power Consumption | 90W |
|  | Speaker (Option) | 3watts x 2 |
|  | Plug & Play | DDC 1/2 B |
|  | Screen Control | On Screen Display Menu |
|  | Weight | 9Kg (net) |
|  | Power Supply | DC 24 volts |
|  | Remote Controller | Yes |
|  | Dimension | 601mm(W) x 390mm(H) x 87.5mm(D) |

# TFT COLOR LCD

Part No. 11906746