

User's Manual

TFT LCD TV



TFT COLOR LCD

TFT COLOR LCD

Important Safety Instructions



TFT LCD TV

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- 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

Shock Hazard Marking and Associated Graphical Symbols



Explanation of Safety Related Symbols



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

TFT COLOR LCD

Regulatory Information

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 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:

TFT COLOR LCD

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.

TFT COLOR LCD

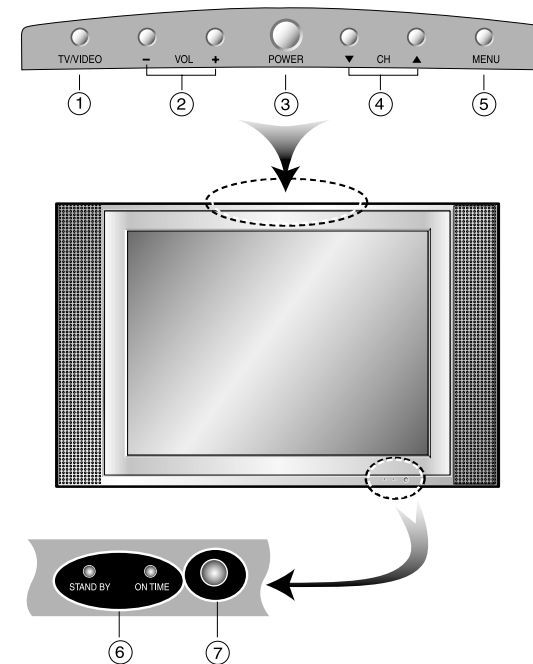
Contents

TFT COLOR LCD

Contents

TFT COLOR LCD

Front Panel



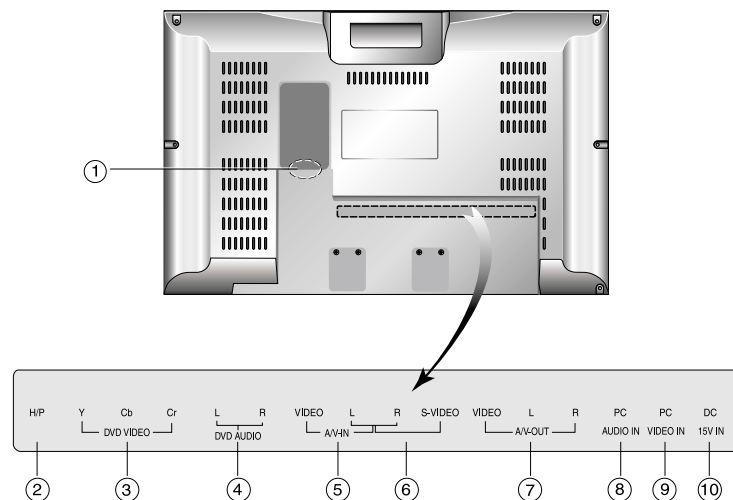
- 1 TV/VIDEO** Displays a menu of the available input sources.
(TV, Monitor)
- 2 MENU** Display the main on-screen menu. Exit from sub-menu.
- 3 - VOL +** Press the increase or decrease the volume. Also used to increase or reduce the value of a menu option.
- 4 ▼ CH ▲** Press CH ▼ or CH ▲ to change channels. Also used to highlight selections on the on-screen menus.
- 5 POWER** Turns ON/OFF the LCD TV/Monitor.
- 6 LED** OFF : the color of LED is changed into RED.
ON : the color of LED is changed into GREEN.
- 7 Remote Control LED**

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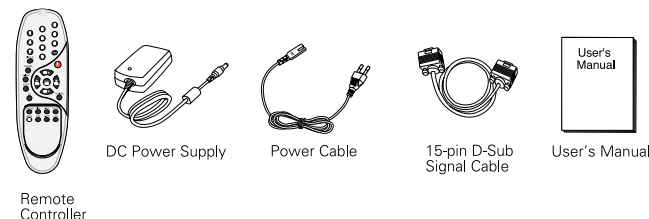
Rear Panel

TFT COLOR LCD

Accessory



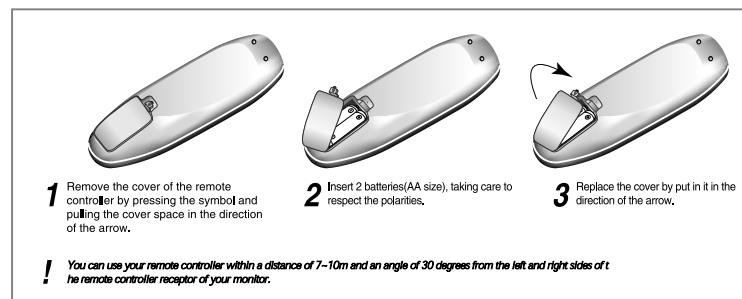
- 1 **VHF/UHF ANTENNA JACK** Connect to an antenna or a cable TV system.
- 2 **HEAD PHONE JACK**
- 3 **DVD VIDEO (COMPONENT; Y, Pb, Pr)**
Video signals from a DVD player
- 4 **DVD AUDIO**
Audio signals from DVD player when using the component video input jacks.
- 5 **A/V IN**
Video & Audio signals from VCR or similar device.
- 6 **S-VIDEO**
S-Video signal from an S-VHS VCR or Laserdisc player.
- 7 **A/V OUT**
Out A/V signal from TFT LCD TV
- 8 **PC AUDIO INPUT**
Connects to the sound-output port of a personal computer.
- 9 **PC VIDEO INPUT**
Used to connect a video signal from a personal computer.
- 10 **DC 15V IN**
To input DC power from power outlet.



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.

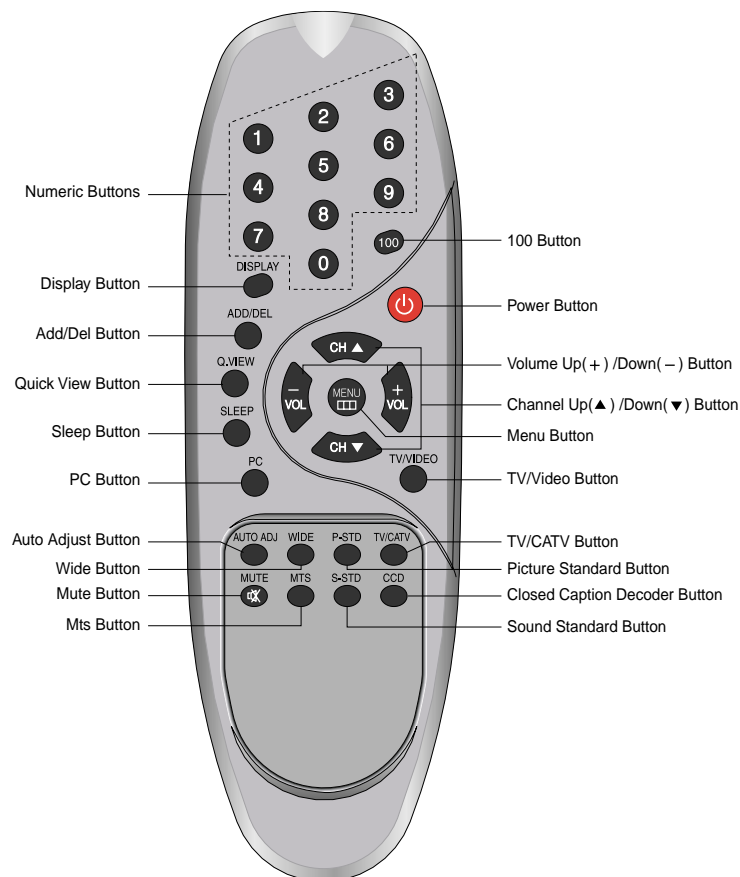


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Remote Control Unit

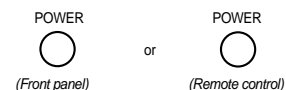
TFT COLOR LCD

Guidance of Basic Operation



- Connect either Antenna or Cable TV according to "ANTENNA CONNECTION" instruction on page 6.
- Insert batteries into the Remote Control unit according to "REMOTE CONTROL USE" instruction on page 5.
- Connect the power cord to AC outlet.
 - Voltage is between 90 and 250 Volts.
 - Frequency is compatible (50/60Hz)

TURN ON/OFF THE TV



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 18 for pre-setting 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.

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On Screen Language Selection

※ 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.

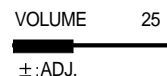
•	A-8	A-5	A-4	A-3	A-2	A-1	A	B	C	D	E	F	G	H	I	J	K	L	M	N
•	01	95	96	97	98	99	14	15	16	17	18	19	20	21	22	23	24	25	26	27
•	O	P	Q	R	S	T	U	V	W	W+1	W+2	W+3	W+4	W+5	W+6	W+7	W+8	W+9	W+10	
•	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	
•	W+11	W+12	W+13	W+14	W+15	W+16	W+17	W+18	W+19	W+20	W+21	W+22	W+23	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.

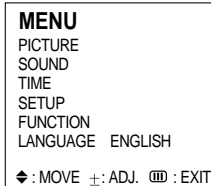
The volume level is indicated on the screen by reference number (0-100) and by bar scale as shown.



- NOTES**
- The volume level can be muted instantly by pressing MUTE button on the Remote Control. See "MUTE Button" on page 37.
 - 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.



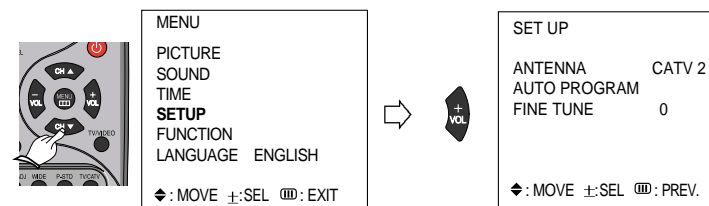
- 1) Press the MENU button.
- 2) Press the CHANNEL UP/DOWN(▲/▼) button to reach LANGUAGE mode in function.
- 3) Press the VOLUME + button to select the desired language.
- 4) It will appear on the screen like below;

→ ENGLISH → ESPAÑOL → PORTUGUÉS → FRANÇAIS

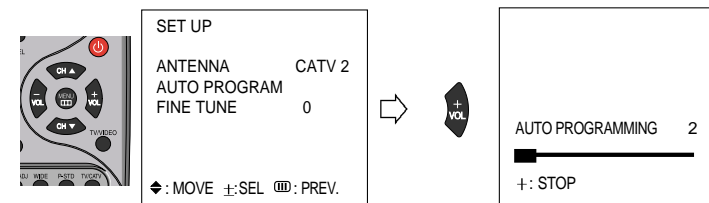
- 5) Press the TV MENU button to exit.

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.



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.



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.

TFT COLOR LCD

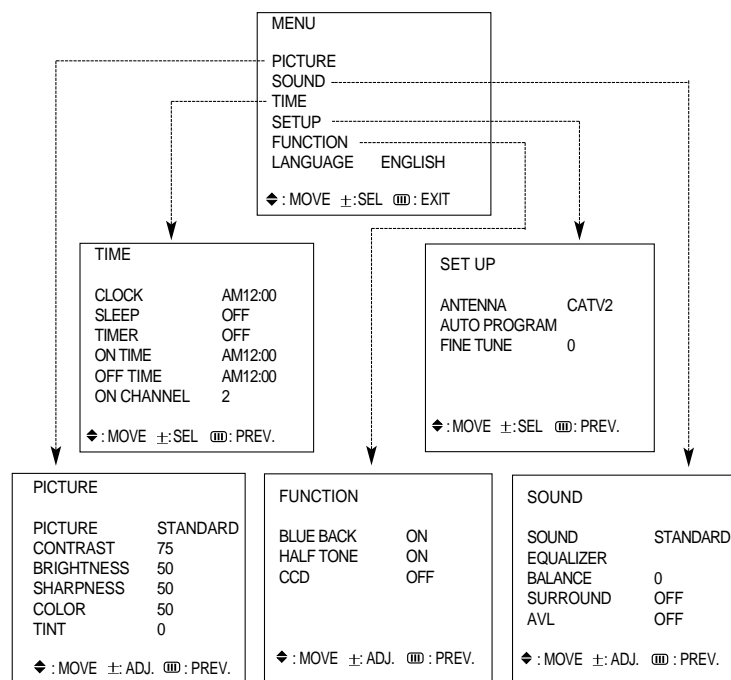
Basis of "MENU" Operation Method

You can execute every operation by pressing CH ▲/▼ buttons and VOL +/- or ◀▶ 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 +/- or ◀▶ buttons to change picture by inputting selected function.



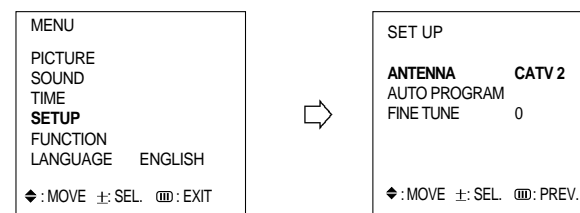
TFT COLOR LCD

Channel Memory (Set Up)

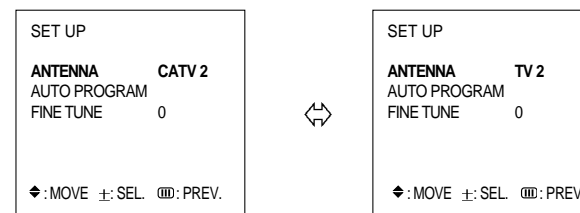
ANTENNA SELECTION

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.



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.



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

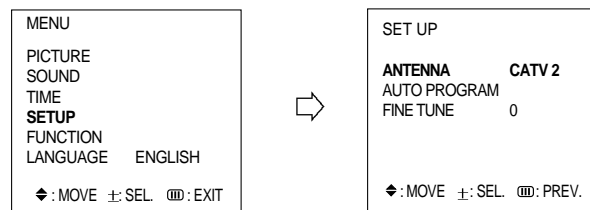
TFT COLOR LCD

Channel Memory (Set Up)

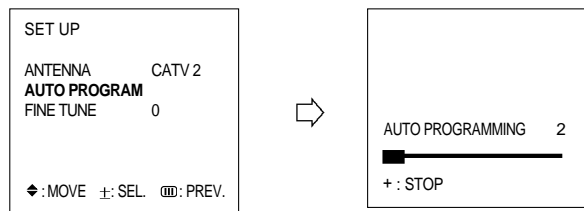
AUTO PROGRAM

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.



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



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.

TFT COLOR LCD

Channel Memory (Set up)

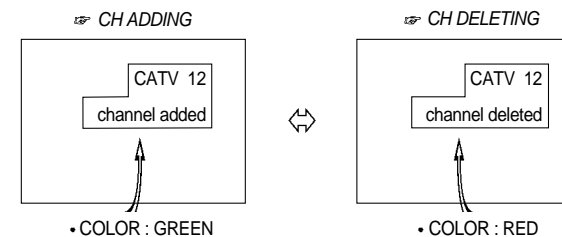
MANUAL MEMORY(channel add/delete)

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.



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.

TFT COLOR LCD

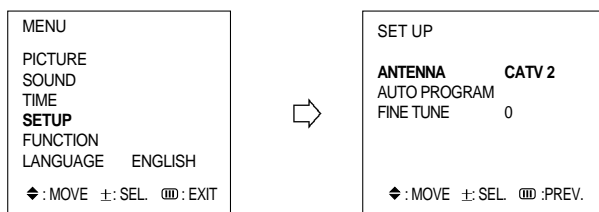
Channel Memory (Set up)

FINE TUNE

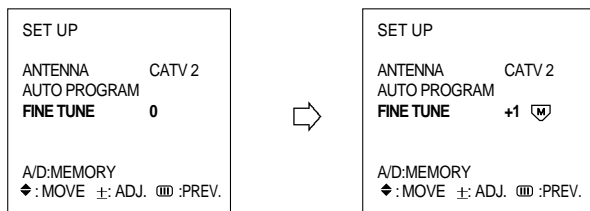
If the reception is clear, you do not have to fine-tune the channel, as this is done automatically during auto program and manual memory.

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.



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.



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.

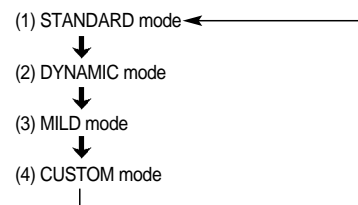
TFT COLOR LCD

Picture Adjustment

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.



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

TFT COLOR LCD

Picture Adjustment

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
LANGUAGE ENGLISH
◆: MOVE ±:SEL □:EXIT

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

2



PICTURE
PICTURE STANDARD
CONTRAST 75
BRIGHTNESS 50
SHARPNESS 50
COLOR 50
TINT 0
◆: MOVE ±: ADJ. □: PREV.

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

TFT COLOR LCD

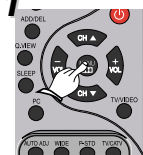
Picture Adjustment

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

- Contrast, Brightness, Color, Sharpness or Tint

e.g. : Contrast Adjustment.

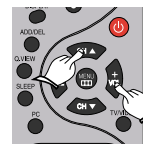
1



MENU
PICTURE
SOUND
TIME
SETUP
FUNCTION
LANGUAGE ENGLISH
◆: MOVE ±:SEL □:EXIT

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

2



PICTURE
PICTURE STANDARD
CONTRAST 75
BRIGHTNESS 50
SHARPNESS 50
COLOR 50
TINT 0
◆: MOVE ±: ADJ. □: PREV.

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

3



CONTRAST 75
±: ADJ. □: PREV.

Adjust "CONTRAST" by VOL +/- buttons.

4



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

TFT COLOR LCD

Sound Adjustment

S.STD

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

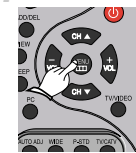
TFT COLOR LCD

Sound Adjustment

USING ON-SCREEN MENU

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

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
SURROUND
0
OFF
◆ : MOVE ±:ADJ. □:PREV.

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

TFT COLOR LCD

Sound Adjustment

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

Move the cursor to EQUALIZER by pressing the CH ▲/ ▼ buttons and press the VOL + button.
- 3**

Adjust each frequency band, using CH ▲/ ▼ buttons.

TFT COLOR LCD

Sound Adjustment

BALANCE

SOUND MENU

- 1**

MENU
 PICTURE
SOUND
 TIME
 SETUP
 FUNCTION
 LANGUAGE ENGLISH

 ◀: 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

SOUND	STANDARD
EQUALIZER	
BALANCE	0
SURROUND	OFF
AVL	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.