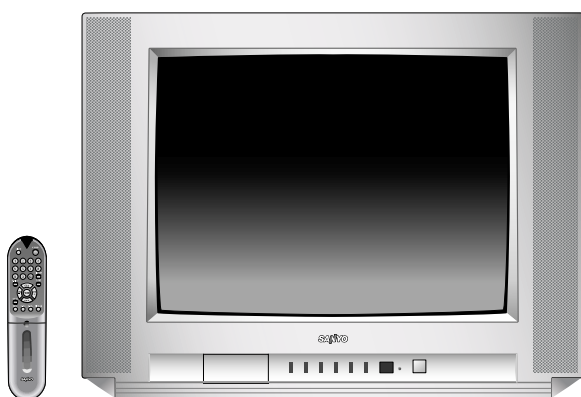


Color TV

SANYO

**AVM-27D6
AVM-27D11**

**Instruction
Manual**



SANYO Canada Inc.

www.sanyocanada.com

Part No. 11906385

Printed in Korea 08/01

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■ INTRODUCTION

Congratulations on your purchase of this Sanyo MTS stereo television.

The stereo speakers are front-mounted at the left and right sides of the TV screen for better stereo effect, delivering a high audio output of 24 watts (total). With over 500 lines of horizontal resolution via the built-in S-video jack, pictures from DVD will be reproduced in amazing detail.

Other Features

- 181-channel cable-compatible frequency synthesizer tuner with built-in MTS decoder
- 2 sets of A/V inputs (1 set each on front and rear panels)
- Picture-in-Picture (1-tuner) (AVM-27D11 only)
- Clock and Sleep / On-Off timer
- Multi-color on-screen menu/display in English, French or Spanish
- High-contrast dark picture tube
- Closed-captioning decoder
- Audio out jacks
- Parental channel control (Channel Guard)
- Auto channel programming
- Automatic power shut-off in the absence of a signal
- Remote control with MoonGlow™ keys for easy operation in a darkroom (uses 2 x AAA batteries, not incl.)
- S-VHS Input.

Note: Some illustrations in this manual may differ from the actual unit for explanation purposes.

HOW TO GET THE MOST ENJOYMENT FROM YOUR NEW COLOR TV SET

Your new Color TV incorporates a host of features designed to give you excellent performance. In addition, this model utilizes a highly sophisticated Control Microprocessor that can give you unprecedented convenience and control in the areas of Picture Adjustment, Channel Tuning, On-Screen Information.

We therefore strongly urge that you read all of these instructions before using your TV for the first time.

It is especially important that you read and follow the instructions under the heading : "SET-UP" on page 13.

■ SAFETY INSTRUCTIONS

• ANTENNA

Unless your TV is connected to a Cable TV system or to a centralized antenna system, a good outdoor color TV antenna is recommended for the best performance. However, if you are located in a strong signal area that is free from interference and ghost conditions (multipath), an indoor antenna may be sufficient.

• LOCATION

Select an area where sunlight or bright indoor illumination will not fall directly on the picture screen.

Also, be sure that the location selected allows a free flow of air to and from the perforated back cover of the set.

• NOTES

- Never remove the back cover of the set. This can expose you to very high voltage and other hazards.
- If the set does not operate properly, unplug it and call your dealer or service shop.

• VIEWING

This color TV may be viewed from any desired distance. Most viewers prefer a distance of three to six feet or more depending on screen size for maximum eye comfort.

Caution

To prevent electric shock do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be inserted fully to prevent blade exposure.

Caution

Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

GRAPHICAL SYMBOLS EXPLANATION



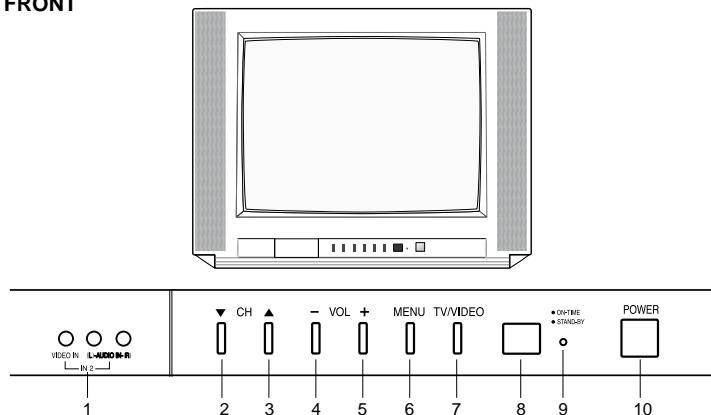
This lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



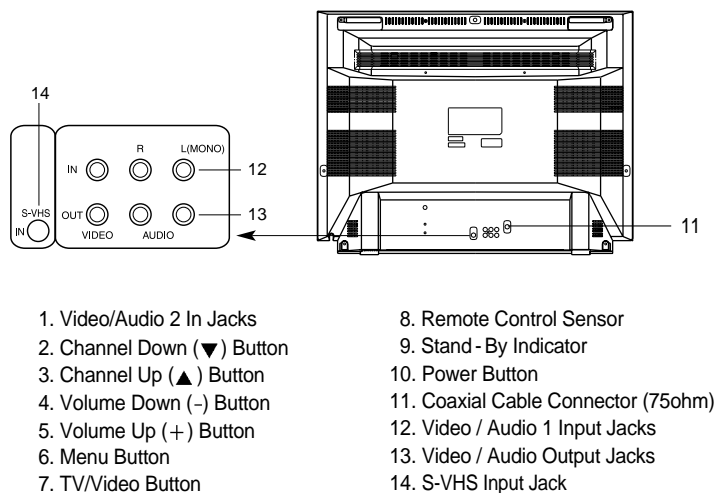
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (Servicing) instructions in the literature accompanying the appliance.

■ LOCATION OF CONTROLS

FRONT



REAR

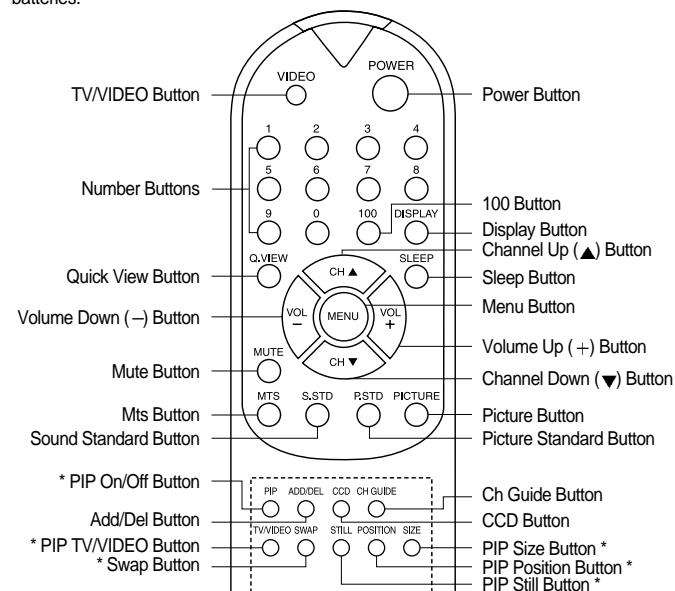


■ USE OF THE REMOTE CONTROL

- Point to remote control sensor of the TV set.
- The maximum operable distance is approximately 20 feet from the remote control sensor, and not more than 30° to either side of center.
- The operation of the remote control is most effective when there is nothing between it and the remote control sensor.
- The duration of the batteries is approximately 6 months to 1 year.
Replace the batteries when the remote operation becomes unstable.

BATTERY INSTALLATION

- Slide down the cover.
- Press the indentation and lift up the cover.
- Correctly install the batteries, observing (+ / -) polarities as shown in the compartment.
- Do not use a combination of old and new batteries or different type of batteries.
- If batteries become exhausted, remove and replace them soon.
- When battery leakage occurs, clean the battery compartment with a soft cloth and replace the batteries.



* AVM-27D11(only)

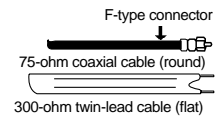
■ ANTENNA CONNECTION

ANTENNA

- The antenna requirements for good color television reception are more important than those for black & white television reception. For this reason, a good quality outdoor antenna is strongly recommended.

The following is a brief explanation of the type of connections that are provided with the various antenna systems:

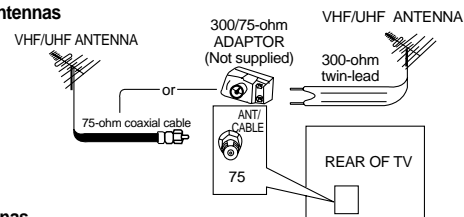
- A 75-ohm system is generally a round cable with F-type connector that can easily be attached to a terminal without tools.
- A 300-ohm system is a flat "twin-lead" cable that can be attached to a 75 ohm terminal through a 300-75 ohm ADAPTOR.



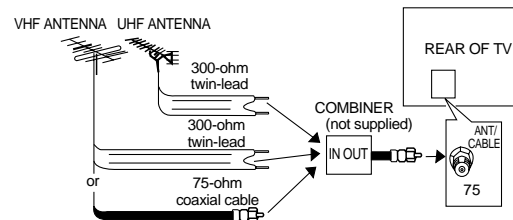
OUTDOOR ANTENNA CONNECTION

- Use one of the following two diagrams if you connect an outdoor antenna.
 - A : Using a VHF/UHF combination outdoor antenna.
 - B : Using separate VHF and/or UHF outdoor antenna.
- Connect an outdoor antenna cable lead-in to the COAXIAL CABLE CONNECTOR on the rear of the TV set.

A. Combination VHF/UHF Antennas



B. Separate VHF/UHF Antennas



■ CABLE TV (CATV) CONNECTION

- A 75-ohm coaxial cable connector is built into the set for easy hookup. When connecting the 75 ohm coaxial cable to the set, screw the 75-ohm cable to the COAXIAL CABLE CONNECTOR.
- Some cable TV companies offer "premium pay channels". Since the signals of these premium pay channels are scrambled, a cable TV converter/descrambler is generally provided to the subscriber by the cable TV company. This converter/descrambler is necessary for normal viewing of the scrambled channels. (Set your TV to channel 3 or 4, as typically one of these channels is used. If this is unknown, consult your cable TV company. One possible method of utilizing the converter/descrambler provided by your cable TV company is explained below.)

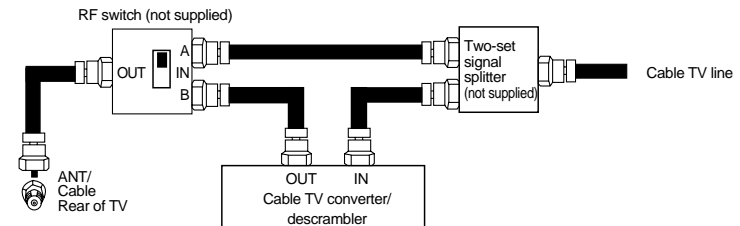
NOTE : An RF switch equipped with position A/B (not provided) is required.

"A" position on the RF switch (not supplied)

You can view all unscrambled channels using the TV's channel keys.

"B" position on the RF switch (not supplied)

You can view the scrambled channels via the converter/descrambler using the converter's channel keys.



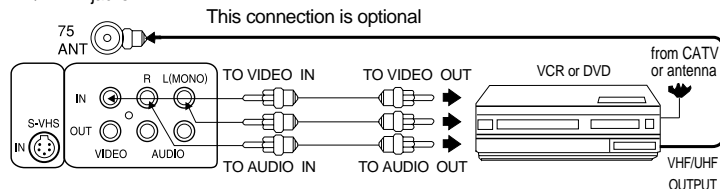
VIDEO/AUDIO CONNECTIONS

- Prior to making any connections to your TV set, be sure to turn the POWER off.
- For a more detailed understanding of each connection, it is recommended that you read the instruction manual for each connected component.
- If you use video or audio equipment placed near the TV, picture and/or sound may become distorted due to interference between these components.
In such a case, separate each piece of equipment at a sufficient distance.
- The following shows examples for connecting external equipment.
- Do not connect another audio source to the same speaker to which the TV set is connected; otherwise it may damage the amplifier of the TV set or that of the other audio source.

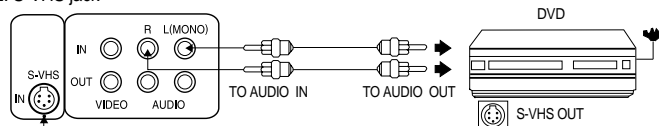
(1) Rear Input Jacks

Use these input jacks to connect your VCR or DVD player for viewing.

1. AV 1 IN jacks



2. S-VHS jack

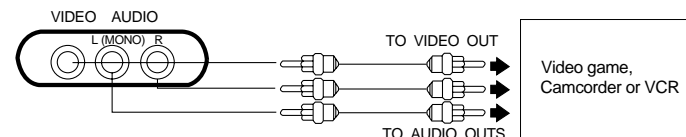


- To view a connected video source, press VIDEO button on the front panel or remote control.

NOTES • In the case that sound output of your VCR is MONO, connect it to "AUDIO IN L (MONO)" Jack of your TV. Then the sound can be heard from both R and L speakers.

(2) Front Input Jacks

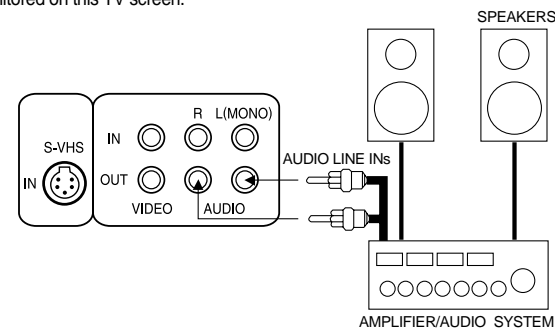
Please use the front jacks (VIDEO 2) for a GAME-PLAYER or CAMCORDER.



- To view a connected video source, press VIDEO button to set the TV to the VIDEO 2 mode.

(3) Audio System Connectors

The audio signal available at these jacks is the same as the audio source of the program being monitored on this TV screen.



1. Adjust the volume of the TV to minimum.
2. Connect the AUDIO OUT jacks on the rear of the set with the AUDIO LINE IN jacks of your audio system through an optional AUDIO/VIDEO cable.
3. Set the INPUT SELECTION switch on the AMPLIFIER/AUDIO SYSTEM into the AUX position and adjust the volume.

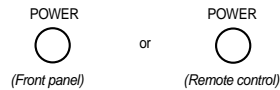
NOTES • You can hear the sound of TV in more vivid stereo through audio system.
• If you have no "AUX IN" jack on your audio system, connect to CD or Video jacks.

■ BASIC OPERATION

FIRST PREPARATIONS

- Connect either Antenna or Cable TV according to "ANTENNA CONNECTION" instructions on page 6.
- Insert batteries into the remote control unit according to "REMOTE CONTROL USE" instructions on page 5.
- Insert the AC Cord Plug into a standard 120V, 60Hz polarized AC outlet.

TURN ON/OFF THE TV



1. Press the "POWER" button on the front panel or on the remote control.
2. Press the same button again to turn the television off.

CHANNEL SELECTION

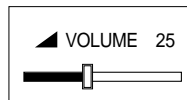
Use CHANNEL (▲/▼) buttons on the remote control (or on the front panel). Press the ▲ button to advance for the higher channels, and the ▼ button to go down for the lower channels.

NOTE : Certain channels have been preset at the factory. It may be necessary to add or erase some channels in your areas. See "AUTO PROGRAMMING" on page 14 for presetting channels.

- Channels can be selected directly by using the number buttons on the remote control.
- For example, to select channel 5, press "0" first, then press "5".
- For channel 120, press the 100 button first, then press "2", then "0".


VOLUME CONTROL

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, and the - button will decrease sound volume. The volume level is displayed on the screen; reference number (0-100) and bar scale as shown.

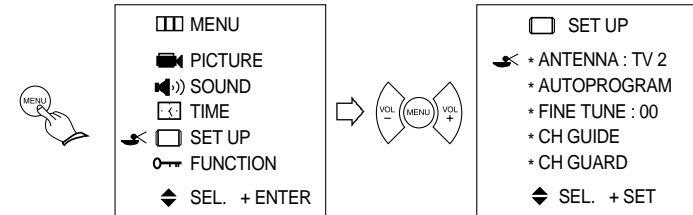


NOTE : The volume level can be muted instantly by pressing MUTE button on the remote control. See "MUTE Button" on page 38.

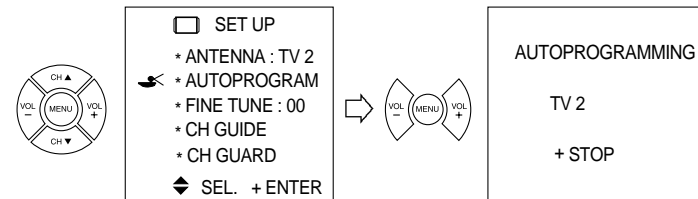
■ BASIC MENU OPERATION

※ The  icon is used as a cursor.

1. Press POWER button to turn the TV on.
2. Press MENU button and move the cursor to "SET UP" option and press VOL + button. The "SET UP" menu is displayed.



3. Press VOL + button to select ANTENNA option. (TV or CATV)
4. Press CH ▲/▼ buttons to place cursor on the "AUTO PROGRAM" option and press VOL + button.

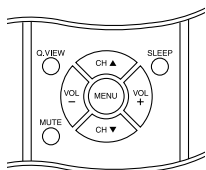


5. When you have finished "AUTO PROGRAMMING", press MENU button repeatedly until the menu disappears.
6. Press CH ▲/▼ buttons to select the channel you want.
7. Press VOL + or VOL - buttons to adjust volume to your desired listening level.

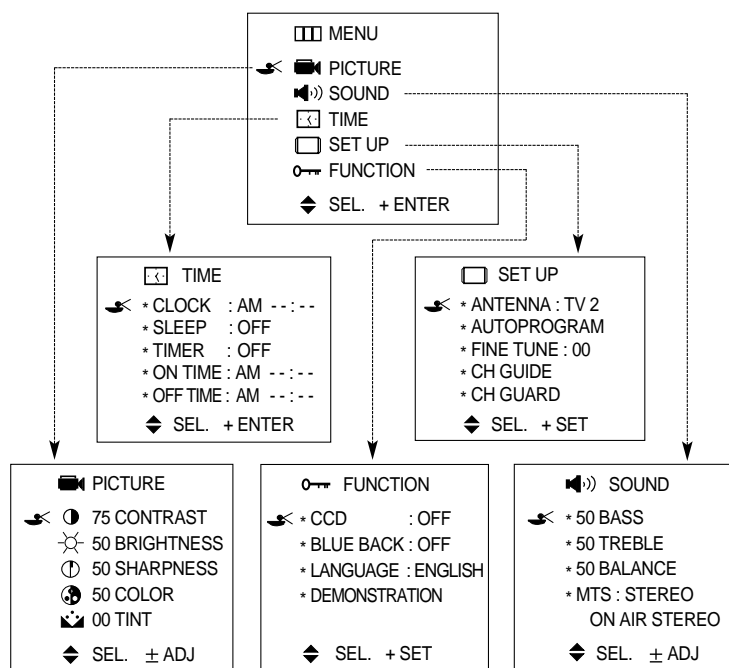
■ BASIC MENU OPERATION

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

If you learn one menu, you can easily operate other functions by viewing pictures.



1. Pressing these buttons alternately makes every operation easy.
2. MOVE ➡ Press CH ▲/▼ buttons to move cursor.
3. SELECTION ➡ Press VOL +/- buttons to change your selection.

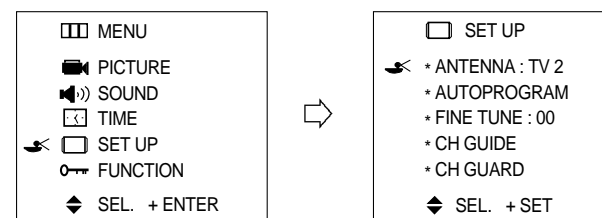


■ SET-UP

ANTENNA SELECTION

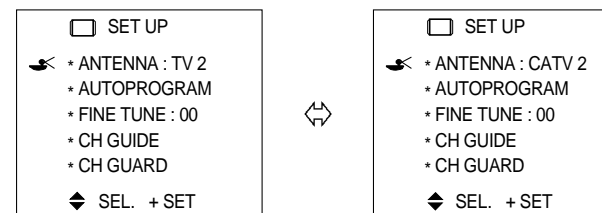
In this mode, you can change the broadcast mode between "TV" (for regular VHF/UHF channels) and "CATV" (for cable channels).

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



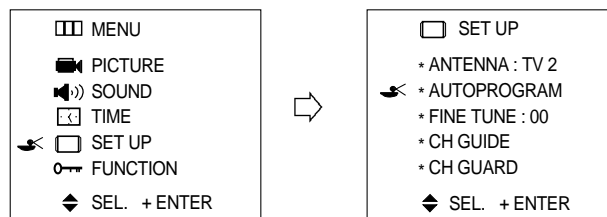
3. When you have finished "ANTENNA" mode selecting, press MENU button repeatedly until the menus disappear.

■ SET-UP

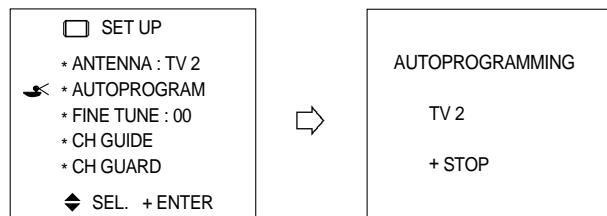
AUTO CHANNEL PROGRAMMING

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

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



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



When tuned to an active channel in which TV program is broadcasted, this channel is memorized and the color of the channel number changes from magenta to green. After all active channels were memorized, "SET UP" menu is displayed.

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

NOTES

- If the broadcast signal is weak, the channel will not be memorized.
- If you wish to stop this procedure during the operation, press VOL + button.

■ SET-UP

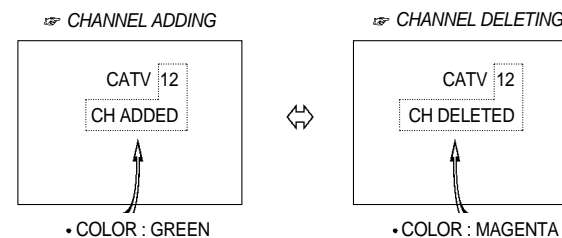
MANUAL MEMORY (channel add/delete)

1. TO ADD A CHANNEL

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

- ① Select a channel you want to view by using the number buttons on the remote control.
- ② Press "ADD/DEL" button on the remote control.

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



2. TO DELETE CHANNEL

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

- ① Press CH ▲/ ▼ buttons or use the number buttons 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 magenta.

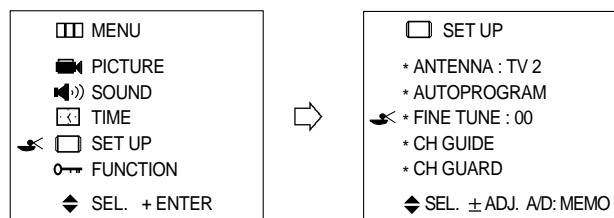
■ SET-UP

FINE TUNING

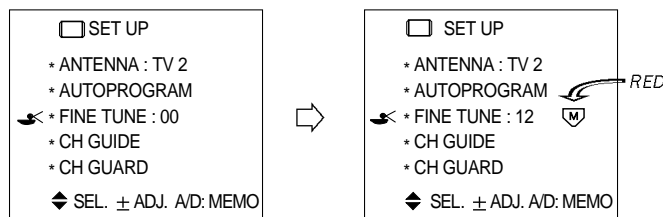
If the reception is clear, you do not have to fine-tune the channel, as this is done automatically during auto program and manual memory.

If, however, the signal is weak or distorted, you may have to fine-tune the channel manually.

1. Press CH ▲/▼ buttons or use the number buttons to select a channel you want to adjust.
2. Press MENU button, move the cursor to "SET UP" option and press VOL + button. The "SET UP" menu is displayed.



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



5. If you wish to memorize the fine-tuned frequency for the channel, press ADD/DEL button. The [M] symbol (red color) appears to the right of the channel number. To delete the memory, press the same button again. The [M] symbol disappears.

NOTES

- The AFT (Automatic Frequency Tuning) mode does not operate on the channels that are fine-tuned.
- After the Auto Channel Programming has been performed, memorized channels are automatically tuned to their optimum frequencies.

■ SET-UP

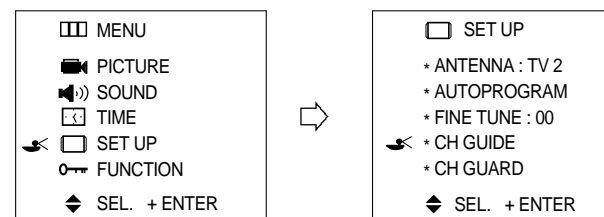
CHANNEL GUIDE

You can choose up to 5 channels and assign them to the Channel Guide (CH GUIDE).

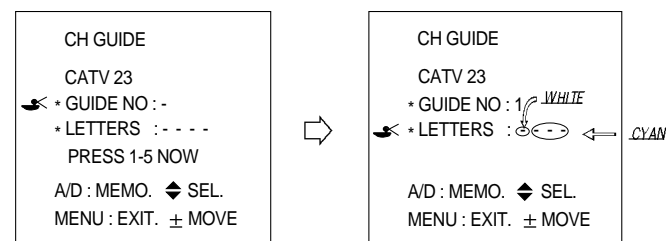
This function allows you to select your favorite channels easily.

CH GUIDE PRESETTING

1. Press CH ▲/▼ buttons or use the number buttons to select a channel you want.
2. Press MENU button, move the cursor to "SET UP" option and press VOL + button. The "SET UP" menu is displayed.



3. Press CH ▲/▼ buttons to place cursor on the "CH GUIDE" option and press VOL + button. The "CH GUIDE" menu is displayed.
4. Press CH ▲/▼ buttons to select your favorite channel and press a number button (1 to 5) on the remote control. Then the cursor will be at the "LETTERS" option.



The color of the first selected character (-) will change from cyan into white.

■ SET-UP

CH GUIDE PRESETTING

- Press CH ▲/ ▼ buttons to select characters for station name (if desired) and press VOL + / - buttons. The color of the next character changes into white.

If you press CH ▲, the characters appear sequentially as follows :

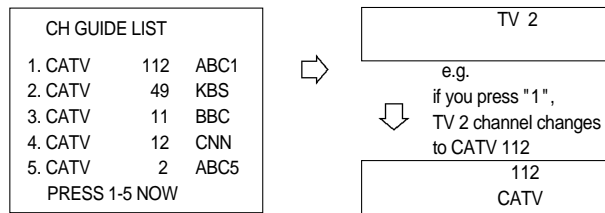
A → B → C → → X → Y → Z → - → 0 → 1 → → 8 → 9 → A → B

- Press "ADD / DEL" button on the remote control, then this channel is memorized in the "CH GUIDE LIST".
- Repeat the process from steps 4 to 6 until you complete "CH GUIDE".
- After you have finished "CH GUIDE", press MENU button. "CH GUIDE LIST" will be displayed for a few seconds.



SELECTING A CHANNEL BY CH GUIDE LIST

- Press CH GUIDE button, then CH GUIDE LIST will be displayed.
- Press a number button (1-5), then selected channel will appear.



NOTES

- The selected channel is changed directly regardless of ANTENNA mode.
- At the video mode, CH GUIDE button does not operate.

■ SET-UP

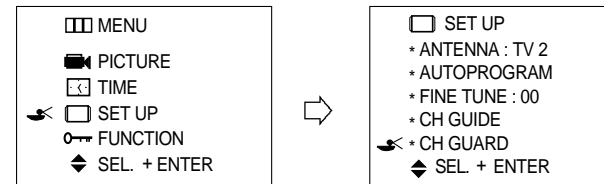
CHANNEL GUARD

With this feature, you can protect your children from viewing violent or other inappropriate TV programs.

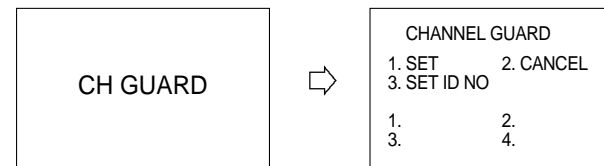
I.D. NUMBER PRESETTING

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

Press CH ▲/ ▼ buttons to move cursor to the "CH GUARD" option and press VOL + button.

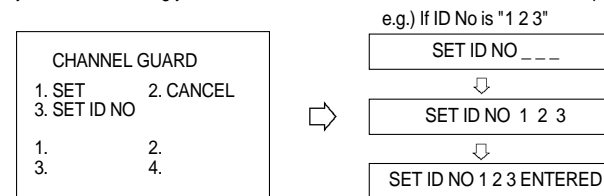


- Press "0" twice then "CH GUARD" menu is displayed.



- Press "3" to enter a 3-digit I.D. NUMBER of your choice, then "SET ID NO _ _ _" is displayed. The selected characters will change from cyan to magenta color.

After you finished entering your I.D. NUMBER, "SET ID NO XXX ENTERED" is displayed.



- When you have finished "ID NO SETTING", press MENU button repeatedly until the menus disappear.

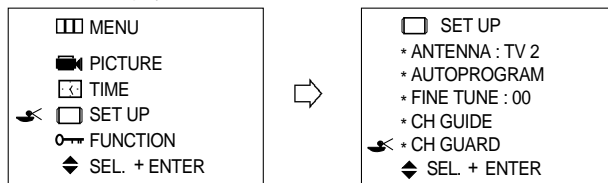
NOTES

- Memorize the I.D. NUMBER as you need it to select guarded channels.
- If you wish to change the I.D. NUMBER, repeat the procedure.

■ SET-UP

CH GUARD SETTING/CANCELLING

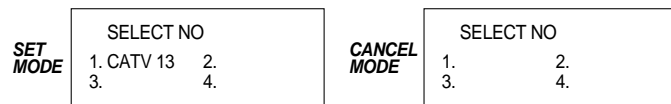
1. Press CH ▲/▼ buttons or number buttons to select the channel you wish to guard or cancel the guard.
2. Press MENU button and move the cursor to "SET UP" option; press VOL + button then the "SET UP" menu is displayed.



3. Press "0" twice then "CH GUARD" menu is displayed.
4. Press 1 or 2 to set or cancel a channel. SET/CANCEL menu is displayed.



5. Press a number (1 to 4) to select or cancel the current channel you are viewing.



(The selected channel will change from cyan to magenta color)

e.g.) CATV 13 cancelled.

- NOTES**
- If you wish to set/cancel another channel, repeat procedure.
 - Auto channel programming does not select guarded channels.

SELECT THE GUARDED CHANNEL

1. Press number buttons to select a guarded channel.
2. Enter I.D. NUMBER then "_" will change to "?". If the I.D. NUMBER is right, the desired channel will be received.

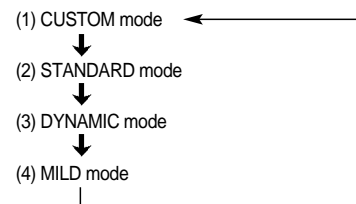


If I.D. NUMBER is wrong, "INVALID ID NUMBER" will display and the desired channel cannot be selected.

■ PICTURE ADJUSTMENT

P.STD (Picture Standard) BUTTON

By pressing the P.STD button on the remote control, you can sequentially select any one of the four possible picture standard presets.



MODE	PICTURE
CUSTOM	• Select this mode to use your customized picture setting. See next page.
STANDARD	• Select this mode to use the factory-presetting standard picture setting
DYNAMIC	• Select this mode -To emphasize more contrast. -To watch in the brighter (daylight) environments.
MILD	• Select this mode - For soft contrast. - When the room is dark. - To lessen eye fatigue.


■ PICTURE ADJUSTMENT

CUSTOM (MANUAL) ADJUSTMENT

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

- Contrast, Brightness, Color, Sharpness or Tint.

1



☐ MENU

◀ PICTURE

🔊 SOUND

🕒 TIME


📺 SET UP

🔑 FUNCTION

◆ SEL. + ENTER

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

2



📺 PICTURE

◀ 75 CONTRAST

☀ 50 BRIGHTNESS

🕒 50 SHARPNESS

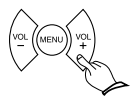
🌈 50 COLOR

🎨 00 TINT

◆ SEL. ± ADJ


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

3




☉ CONTRAST

75



Adjust "CONTRAST" with VOL +/- buttons.

4




When you have finished contrast adjustment, press MENU repeatedly until the menus disappear.

■ PICTURE ADJUSTMENT

If you select this mode, you can directly adjust "BRIGHTNESS" without "MENU" option.

e.g. : *Bright. Adjustment by "PICTURE" button.*

1



📺 PICTURE

◀ 75 CONTRAST

☀ 50 BRIGHTNESS

🕒 50 SHARPNESS


🌈 50 COLOR

🎨 00 TINT

◆ SEL. ± ADJ

Press the "PICTURE" button on the Remote Control.
• "PICTURE" menu is displayed.

2



📺 PICTURE

◀ 75 CONTRAST

☀ 50 BRIGHTNESS

🕒 50 SHARPNESS

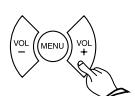
🌈 50 COLOR

🎨 00 TINT

◆ SEL. ± ADJ


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

3




☀ BRIGHTNESS

50



Adjust "BRIGHTNESS" by VOL +/- buttons.

4



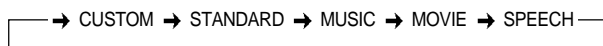
When you have finished BRIGHTNESS adjustment, press "PICTURE" repeatedly until the menus disappear.

■ SOUND ADJUSTMENT

S.STD (Sound Standard) BUTTON

There is a choice of five audio settings. By pressing the S.STD button, the five settings can be viewed in the sequence illustrated.

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




CUSTOM	<ul style="list-style-type: none"> • Select this mode to hear the adjusted sound you want. See next page.
STANDARD	<ul style="list-style-type: none"> • Select this mode to use the factory presetting.
MUSIC	<ul style="list-style-type: none"> • Select this mode when listening to music
MOVIE	<ul style="list-style-type: none"> • Select this mode when viewing a movie
SPEECH	<ul style="list-style-type: none"> • Select this mode to hear voices clearly








■ SOUND ADJUSTMENT

SOUND MENU


You can sequentially select and adjust one of four sound properties. (BASS, TREBLE, BALANCE and MTS)





- 1**




 MENU
 PICTURE
 SOUND
 TIME
 SET UP
 FUNCTION
 SEL. + ENTER


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



 SOUND
 * 50 BASS
 * 50 TREBLE
 * 00 BALANCE
 * MTS : STEREO
 ON AIR 
 SEL. ± ADJ

Move the cursor to TREBLE by pressing the CH ▲/▼ buttons.
- 3**



TREBLE 50


Press the VOL + / - buttons.
 • The sound level is adjusted.

■ SOUND ADJUSTMENT

MTS

1) USING MTS BUTTON : METHOD 1

Your TV set incorporates an MTS (Multichannel Television Sound) decoder to receive stereo broadcasts and any accompanying SAP (Second Audio Program), such as a bilingual broadcast.

1. Press the MTS button

Whenever this button is pressed, the reception mode will be changed as follows.



The "[S]", "[O]" symbols indicate that MTS mode is being broadcasted.

[S] → STEREO symbol (RED color)

[O] → SAP symbol (RED color)

When the power is switched on or channel is changed, the "[S]", "[O]" symbols are automatically displayed, depending on the current broadcast.



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.

■ SOUND ADJUSTMENT

MTS

2) USING SOUND MENU : METHOD 2

1



□ MENU
 PICTURE
 SOUND
 TIME
 SET UP
 FUNCTION
 SEL. + ENTER

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

2



SOUND
 * 50 BASS
 * 50 TREBLE
 * 00 BALANCE
 MTS : STEREO
 ON AIR [S] [O]
 SEL. + SET

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

3

Press the VOL +/- buttons.

- Whenever this button is pressed, the mode will be changed as follows.



SOUND
 * 50 BASS
 * 50 TREBLE
 * 00 BALANCE
 MTS : STEREO
 ON AIR [S] [O]
 SEL. + SET




SOUND
 * 50 BASS
 * 50 TREBLE
 * 00 BALANCE
 MTS : SAP
 ON AIR [S] [O]
 SEL. + SET

■ CLOCK/TIMER

CLOCK

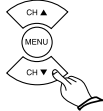
You can set the television's clock so that the current time will be displayed when you press the MENU button on the remote control.

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

- 

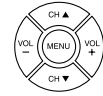
MENU

MENU
 PICTURE
 SOUND
 TIME
 SET UP
 FUNCTION
 SEL. + ENTER

Press MENU button and move to "TIME" option by using CH ▲/▼ buttons.
• Press VOL + button and press it again.
- 


TIME *WHITE* *CYAN*

* CLOCK : AM --:--
 * SLEEP : OFF
 * TIMER : OFF
 * ON TIME : AM --:--
 * OFF TIME : AM --:--
 ± MOVE. ADJ

Adjust "HOUR" with CH ▲/▼ buttons.
• Whenever these buttons are pressed, the hour indication increases or decreases by 1.
- 

TIME *CYAN*

* CLOCK : AM 12:00
 * SLEEP : OFF
 * TIMER : OFF
 * ON TIME : AM --:--
 * OFF TIME : AM --:--
 ± MOVE. ADJ

Press VOL + button and adjust "MINUTE" by using CH ▲/▼ buttons.
• Whenever these buttons are pressed, the minute indication increases or decreases by 1.
- 

Press the "MENU" button to return to the main menu.

■ CLOCK/TIMER

SLEEP TIMER : METHOD 1


You can select a sleep time period from 15 through 90 minutes. The television automatically shuts off after the sleep time period.

- Whenever the SLEEP button on the remote control is pressed, the time is changed :

→ OFF → 15 → 30 → 45 → 60 → 90 →

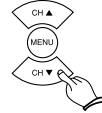
NOTE : To cancel the sleep timer function, press SLEEP button repeatedly until the word "OFF" is displayed.

SLEEP TIMER : METHOD 2

- 

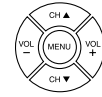
MENU

MENU
 PICTURE
 SOUND
 TIME
 SET UP
 FUNCTION
 SEL. + ENTER

Press MENU button, move the cursor to "TIME" option and press VOL +. The "TIME" menu is displayed.
- 


TIME

* CLOCK : AM 11:30
 * SLEEP : OFF
 * TIMER : OFF
 * ON TIME : AM --:--
 * OFF TIME : AM --:--
 SEL. + ENTER

Press CH ▲/▼ buttons to place cursor on the "SLEEP" option.
- 

TIME

* CLOCK : AM 11:30
 * SLEEP : 15
 * TIMER : OFF
 * ON TIME : AM --:--
 * OFF TIME : AM --:--
 ADJ. + SET

Press VOL + button and press CH ▲/▼ buttons to set between 15 to 90 minutes.
- 

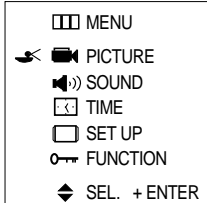
Press the "MENU" button to return to the main menu.

■ CLOCK/TIMER

ON/OFF TIMER

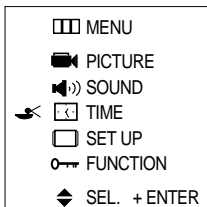
The ON/OFF timer lets you use alarm and automatic off functions.

1



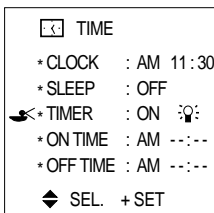
Press MENU button.
• The "MENU" is displayed on the screen.

2



Move the cursor to TIME by pressing the CH ▲/ ▼ buttons and press the VOL + button.
• "TIME" menu is displayed on the screen.

3



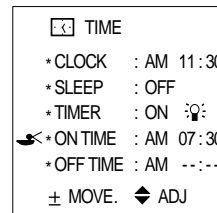
Move the cursor to TIMER by using CH ▲/ ▼ buttons and press VOL + button to set TIMER ON.

NOTES

- If you have not yet set the television's clock, the message "CLOCK STOPPED" is displayed.
- If this happens, refer to "CLOCK" on page 28.

■ CLOCK/TIMER

4

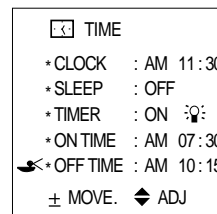


Move the cursor to "ON TIME" by using CH ▲/ ▼ buttons and press the VOL +/ - buttons to set the time. (Refer to page 28)

"ON " appears to show that the "ON TIME" has started and STAND BY indicator changes to green.

When the power is OFF after TIMER is set, the STAND BY indicator changes to orange.

5



Move the cursor to "OFF TIME" by using CH ▲/ ▼ buttons and press the VOL +/ - buttons to set the time. (refer to page 28)

6



Press "MENU" to return to the main menu.

※ AUTOMATIC POWER-OFF MODE

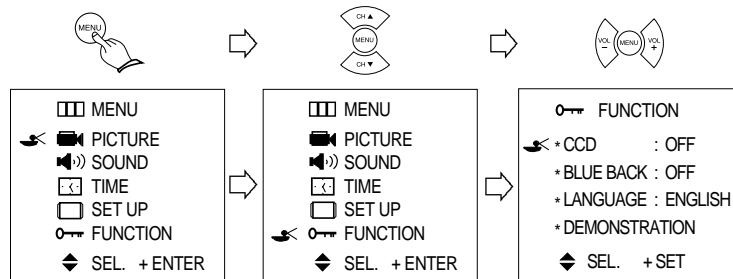
If the set is not switched off when the TV station stops broadcasting, it will automatically go to power-off mode after 15 minutes.

NOTES

- If you set "ON TIME" and "OFF TIME" with the same time, "NOT AVAILABLE" message will be displayed.
- If the power is disconnected (in case of a power failure) and reapplied later, the clock operation will stop.

■ FUNCTIONS

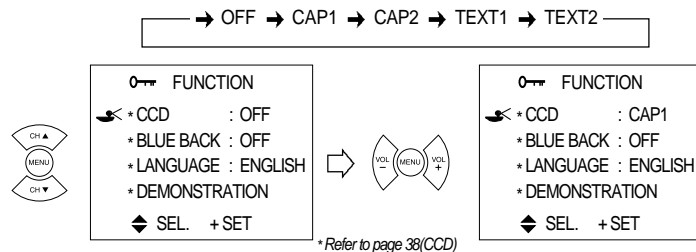
- Press the MENU button. Move the cursor to FUNCTION by pressing the CH ▲/ ▼ buttons. Make a selection by pressing the VOL + button.



CCD (Closed Caption Decoder)

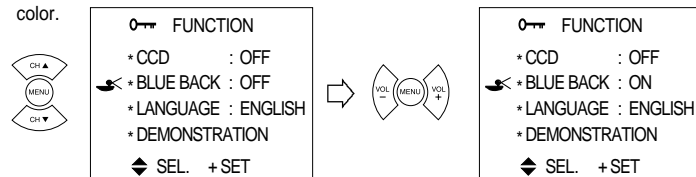
You can select closed caption mode.

- Press CCD button on the remote control to change selections as follows :



BLUE BACKGROUND

- When there is no picture signal or the signal is weak, the screen reverts to a solid blue color.

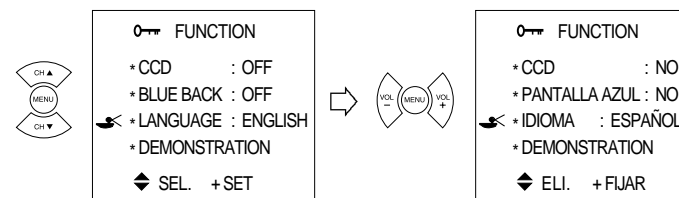


Disable this feature to watch very weak signals.

■ FUNCTIONS

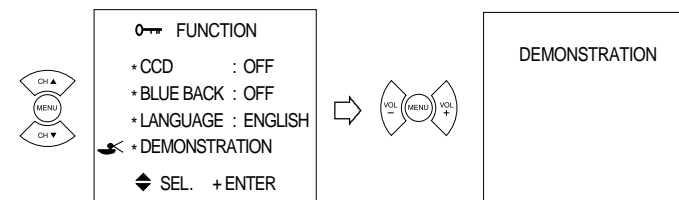
LANGUAGE

- You can select language among ENGLISH, SPANISH, PORTUGUESE and FRENCH by pressing VOL + button.

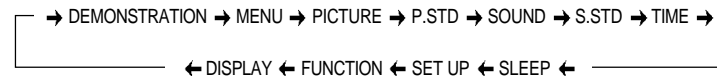


DEMONSTRATION

- All the MENU pages appear repeatedly in sequence. To stop Demonstration, press any button.



DEMONSTRATION SEQUENCE



■ PICTURE-IN-PICTURE (PIP)

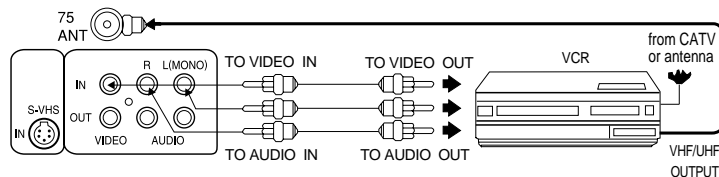
※ AVM-27D11 only

✦ PIP OPERATION :

- In this mode, you can enjoy viewing two programs at the same time.
- The "PIP" function enables you to enjoy the present broadcast program while viewing a video source (Eg. video tape, CD, DVD).
- Also, It enables you to view two TV channels at the same time, using a VCR with a built-in tuner.

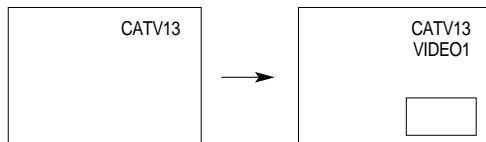
(1) ANTENNA AND VIDEO/AUDIO CONNECTION

- Please connect your TV set with a VCR, using VIDEO/AUDIO cables and the coaxial cable.



(2) How to view two channels at the same time

- Press the PIP ON/OFF button on the remote control.
(Eg. You are watching CATV 13 Channel)



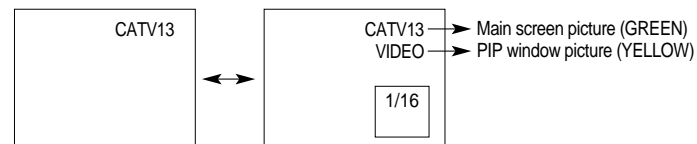
- Turn on the VCR and press the channel up/down button on your VCR to select another channel.
(If you press the "PLAY" button on your VCR, the video tape playback will be seen.)

■ PICTURE-IN-PICTURE (PIP)

※ AVM-27D11 only

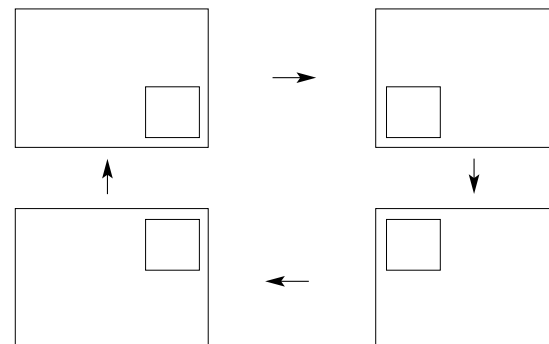
1. PIP ON/OFF

- Press PIP ON/OFF button on the remote control and then the PIP window will be displayed as shown below.



2. PIP POSITION

- Press POSITION button and then the position of PIP window will be moved as shown below.

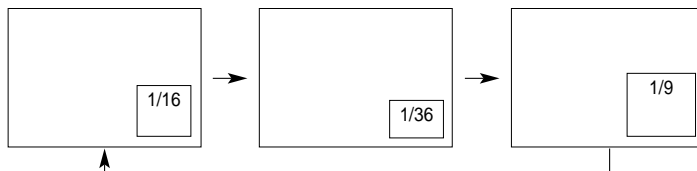


■ PICTURE-IN-PICTURE (PIP)

※ AVM-27D11 only

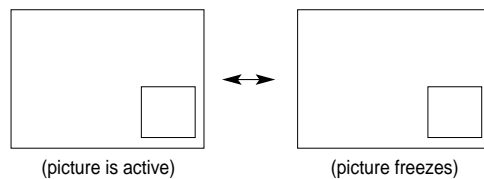
3. PIP SIZE

- Press **SIZE** button and then the size of the PIP window will be toggled as shown below.



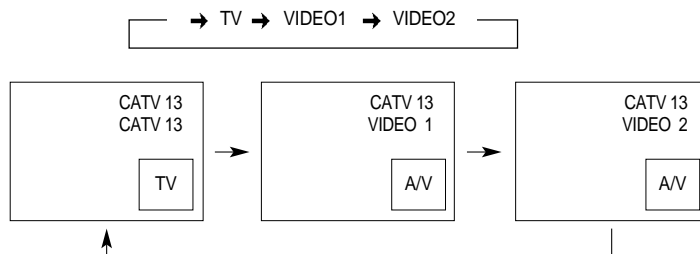
4. PIP STILL

- Press **STILL** button and then the PIP picture will freeze frame.



5. PIP TV/VIDEO

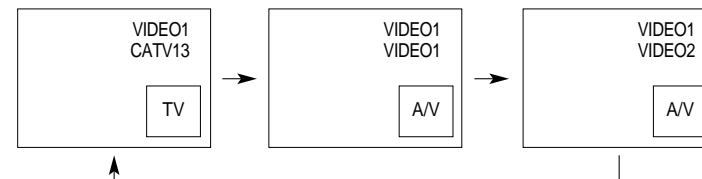
- Press **TV/VIDEO** button on the remote control and then the PIP picture mode will be toggled as shown below.
- The Component Video Input cannot be toggled.



■ PICTURE-IN-PICTURE (PIP)

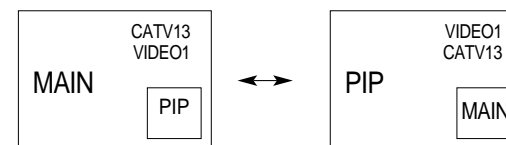
※ AVM-27D11 only

Also, you can use the **TV/VIDEO** button in the **VIDEO** mode.



6. PIP SWAP

- Press **SWAP** button to swap pictures between the main screen and the PIP window.



■ OTHER USEFUL FUNCTIONS

✳ CCD :

- This TV set incorporates a CCD (Closed Caption Decoder) to enable viewing closed captions and TEXT broadcasts.
- Closed caption and TEXT each has 2 channels (CH1 & CH2).
- Closed caption 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.

→ OFF → CAP1 → CAP2 → TEXT1 → 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 cannot 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 Q.VIEW button on the remote control. The previously viewed channel will appear on the screen. Press Q.VIEW again to switch back to the original channel. Repeatedly pressing Q.VIEW switches between these two channels.

✳ **DISPLAY BUTTON** : Press DISPLAY button on the remote control. The channel number of the program you are viewing, the TIMER settings and the current time are displayed in sequence.

The current time remains displayed on the screen, until 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. To restore normal sound, press MUTE again.

NOTE : Changing the audio volume also restores the sound.

■ RECEPTION DISTURBANCE

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.

■ CARE AND MAINTENANCE

To prevent fire or 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 plastic parts. Mild soap and a soft, damp cloth may be used.

■ TROUBLESHOOTING GUIDE

Before requesting service, please refer to the following chart for the symptom and possible solution. For more information, see the corresponding page in this manual.

SYMPTOM	POSSIBLE SOLUTIONS
TV does not operate	<ul style="list-style-type: none"> • Make sure the power cord is plugged in. • Try another AC outlet. • Power is off. Check fuse or circuit breaker.
Poor sound or no sound	<ul style="list-style-type: none"> • Station or CATV experiencing problems. Turn to another station. • Check sound adjustments (Volume and Mute). • Check for sources of possible interference.
Poor picture or no picture	<ul style="list-style-type: none"> • Station or CATV experiencing problems. Turn to another station. • Check antenna or CATV connections and reorient antenna. • Check for sources of possible interference. • Check picture control adjustments.
Poor reception on some channels.	<ul style="list-style-type: none"> • Station or CATV experiencing problems. Turn to another station. • Station signal is weak. Reorient antenna to receive a strong signal. • Check for sources of possible interference.
Poor color or no color	<ul style="list-style-type: none"> • Station or CATV experiencing problems. Turn to another station. • Make sure channels are set into memory. • Check picture control adjustments. • Make sure TV/CATV Mode is in the correct position. • Check antenna or CATV connections and reorient antenna. • Check for sources of possible interference.
Picture wobbles or drifts	<ul style="list-style-type: none"> • Station or CATV experiencing problems. Turn to another station. • Make sure channels are set into memory. • CATV company is scrambling signal. • Check antenna connections and reorient antenna.
No CATV reception	<ul style="list-style-type: none"> • Check CATV connections. • Make sure TV/CATV is in the correct position. • Station or CATV system problems. Try another station.
Horizontal or diagonal bars on screen	<ul style="list-style-type: none"> • Check antenna connections and reorient antenna. • Make sure TV/CATV mode in the correct position. • Check for sources of possible interference.
No reception above Channel 13	<ul style="list-style-type: none"> • Make sure TV/CATV mode is in the correct position. • If using antenna, check UHF antenna connections.
No remote operation	<ul style="list-style-type: none"> • Batteries are weak, dead, or inserted improperly. • Remote is out of range. Move closer to TV. • Make sure remote is aimed at sensor. • Confirm there are no obstructions between the remote and the TV. • Make sure the power cord is plugged in.
TV shuts off	<ul style="list-style-type: none"> • Power interrupted. • Sleep Timer, On Timer or Off Timer are set; Station has stopped broadcasting.

THE SANYO COMFORT WARRANTY COLOR TELEVISION

WARRANTY APPLICATION

New, unused Sanyo Color Television products purchased in Canada through a Sanyo authorized dealer are warranted against manufacturing defects in materials and workmanship for **ONE YEAR** for parts and labor, from the date of purchase by the original retail purchaser. This warranty only applies in favor of the original retail purchaser of the warranted product.

SANYO CANADA INC.'S RESPONSIBILITY

During the warranty period, SANYO Canada Inc. will repair, or at our option, replace a Color Television product which shows evidence of a manufacturing defect in materials or workmanship. Replacement PARTS are warranted for the remaining portion of the warranty period.

WHAT IS NOT COVERED

- Color Television products purchased outside Canada.
- Color Television products purchased in a used condition.
- Problems due to product set-up and installation.
- Adjustments that are outlined in the Operating Manual.
- Accessory items including antenna, batteries and connecting cables.
- Damage in or due to transportation.
- Damage due to improper maintenance, accident, abuse, misuse or negligence.
- Damage caused by lightning and power surges.

ORIGINAL RETAIL PURCHASER'S RESPONSIBILITY

You, the original retail purchaser, must present your original, dated bill-of-sale together with this warranty to SANYO Canada Inc. or to an authorized Sanyo Service Depot* when you make a claim under this warranty.

You, the original retail purchaser, are responsible for any costs of TRANSPORTING the product to and from SANYO Canada Inc. or an authorized Sanyo Service Depot. You also are responsible for the cost of any MAINTENANCE necessary in respect of the product.

* In-home service is only available to the units whose screen size is 25 inches or over, and limited to the locations within a 30-km radius of any authorized Sanyo Service Depot, throughout Canada.

WARRANTY BECOMES VOID

This warranty becomes void if the product's serial numbers are altered or removed or if any repair to the product is made other than by SANYO Canada Inc. or by an authorized Sanyo Service Depot.

LIMITATIONS

- (a). SANYO Canada Inc. reserves the right to change or improve the design of the model of the product warranted hereunder without incurring any obligation to make any modifications to or to install any improvement in or on the product.
- (b). In no event shall SANYO Canada Inc. or any of its Authorized Dealers be liable for special or consequential damage arising from the use of this product.

STATUTORY WARRANTIES

The above provisions do not preclude the operation of any applicable provincial statute which in certain circumstances may not allow some of the limitations and exclusions described in this Warranty. Where any terms of this Warranty are prohibited by such a statute, they shall be deemed null and void but the remainder of this warranty shall remain in effect.

HOW TO OBTAIN WARRANTY SERVICE

Please contact the Sanyo Authorized Dealer from whom the product was purchased or contact us directly at:

SANYO Canada Inc.

1-300 Applewood Cres. Concord Ont. L4K 5C7
(905) 760-9944
1-800-263-2244

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