

# Color Television OWNER'S MANUAL

MODEL : WP-32A30D

Please read this manual carefully before operating your set.  
Retain it for future reference.  
Record model number and serial number of the set.  
See the label attached on the back cover and quote this  
information to your dealer when you require service.

Internet Page : <http://www.lge.co.kr>

WA0116B ©

# FEATURES

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Your new TV set has been designed and built to give you the very best in quality, features and performance. To fully enjoy all the features and functions of your TV for many years to come, we recommend you read this Owners Manual carefully and thoroughly.

**Note:** When reading this Owners Manual you will find some words are shown,

**LIKE THIS** (in capital letters and in bold type) ; they refer to the buttons on the front panel of TV or remote control and jacks on the front or back panel of TV,

**LIKE THIS** ; they refer to the letters displayed on the screen.

This TV set is specially designed for you to call up a sub screen within the main TV screen, with **PIP**(picture in picture) function. Thus at the same time you can watch two different programs. You can watch the TV in various picture formats; **Normal, Spectacle, Wide, Zoom 1** or **Zoom 2** picture format and the **Magic Eye** function sets the most proper picture to your eyes with a natural colour according to the surroundings. **Multi Picture** function searches the stored channels via 4, 8 or 9 sub pictures. **Caption/text function** allows viewing of closed caption and text. **Auto Picture Control** lets you adjust the factory preset pictures corresponding to the lighting around. **Auto Sound Control** creates good sound reproduction appropriate to each programme character at the factory. You can watch two different programs on **double picture** of same size. The **SRS (Sound Retrieval System)** creates an all around sound as in a concert hall. By connecting an S-VIDEO VCR to this **S-VIDEO** jack, the picture quality can further be improved.

Also your TV set includes these special features.

- **Cable compatible 181 – Channel Tuning Capability** lets you select up to 68 VHF/ UHF channels (2-69) and 125 cable channels (1-125).
- **Remote Control Unit** lets you operate the TV from a distance.
- **Automatic Channel Programming** automatically stores in memory all the active channels in your area.
- **Programmable Sleep Timer** automatically turns off your TV after the time you set.
- **Programmable ON/OFF Timer** automatically turns on and off your TV at a set time.
- **AUDIO/VIDEO IN Jacks** let you monitor an audio/video source that has audio/video outputs, such as VCR or camcorder.
- **AUDIO/VIDEO OUT Jacks** let a TV programme to be recorded by being connected to the recording VCR's audio/video input jacks.
- **Three Broadcasting System** let the TV receive NTSC, PAL-N or PAL-M according to the corresponding broadcasting area.

# SAFETY PRECAUTIONS

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Read all of these instructions and save for later use.

## Cleaning

Unplug this television receiver from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

Do not use attachments not recommended by the television receiver manufacturer as they may cause hazards.

## Power Supply

This television receiver should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your television dealer or local power company.

## Installation

Do not use this television receiver near water, for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.

Do not place this television receiver on an unstable cart, stand, or table. The television receiver may fall, causing serious injury to a child or an adult, and serious damage to the appliance.

Use only with a cart or stand recommended by the manufacturer, or sold with the television receiver. Wall or shelf mounting should follow the manufacturer's instructions and should use a mounting kit approved by the manufacturer.

Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to insure reliable operation of the television receiver, and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the television receiver on a bed, sofa, rug, or other similar surface. This television receiver should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.

It is recommended not to operate this unit near speakers or big metallic furnitures in order to keep their magnetism from disturbing colors purity (uniformity) on the screen

## Use

Do not allow anything to rest on the power cord. Do not locate this television receiver where the cord will be abused by persons walking on it.

Do not overload wall outlets and extension cords as this can result in fire or electric shock. Never push objects of any kind into this television receiver through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock.

Never spill liquid of any kind on the television receiver.

## Service

Do not attempt to service this television yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified personnel.

## ● Writing Model And Serial Numbers

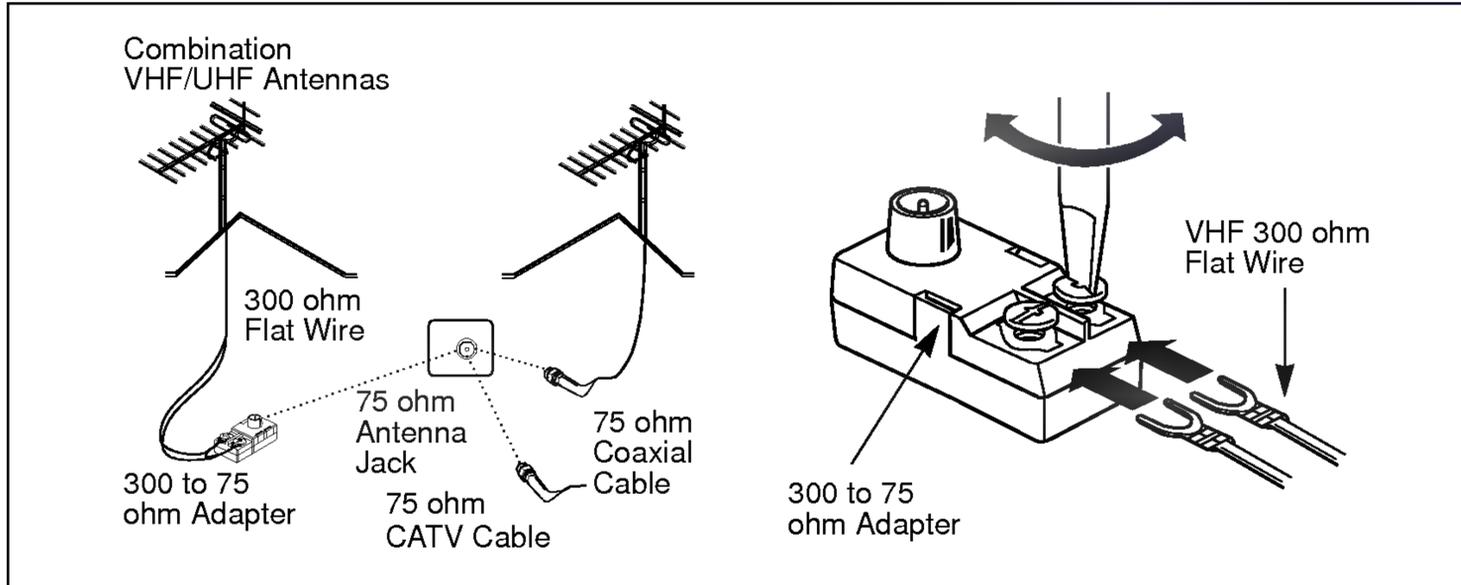
The serial number and model number are found on the back of this unit. The serial number is unique to this unit. You should record requested information here and retain this guide as a permanent record of your purchase. Please retain your purchase receipt as your proof of purchase.

Date of Purchase \_\_\_\_\_  
Dealer Purchased from \_\_\_\_\_  
Dealer Address \_\_\_\_\_  
\_\_\_\_\_  
Dealer Phone No. \_\_\_\_\_  
Model No. \_\_\_\_\_  
Serial No. \_\_\_\_\_

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## ● Connecting an outdoor antenna

For the best reception, we recommend you use an outdoor antenna. Severely weathered antennas and antenna cables can reduce the signal quality. Before connecting it, necessarily inspect them. Any service center can explain the various outdoor antennas available to you.

### 300 Ohm Flat Wire

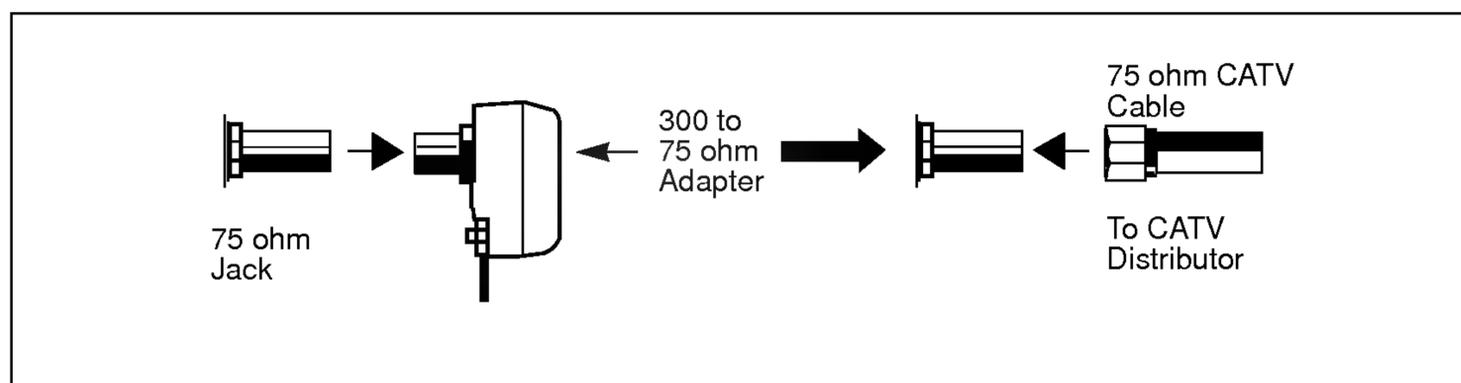
1. Connect the 300 ohm flat wire to screws on the 300 ohm to 75 ohm adapter.
2. Push the end of 300 ohm to 75 ohm adapter into 75 ohm antenna jack.

### 75 Ohm Coaxial Cable

1. Connect the 75 ohm coaxial cable directly to the 75 ohm antenna jack.

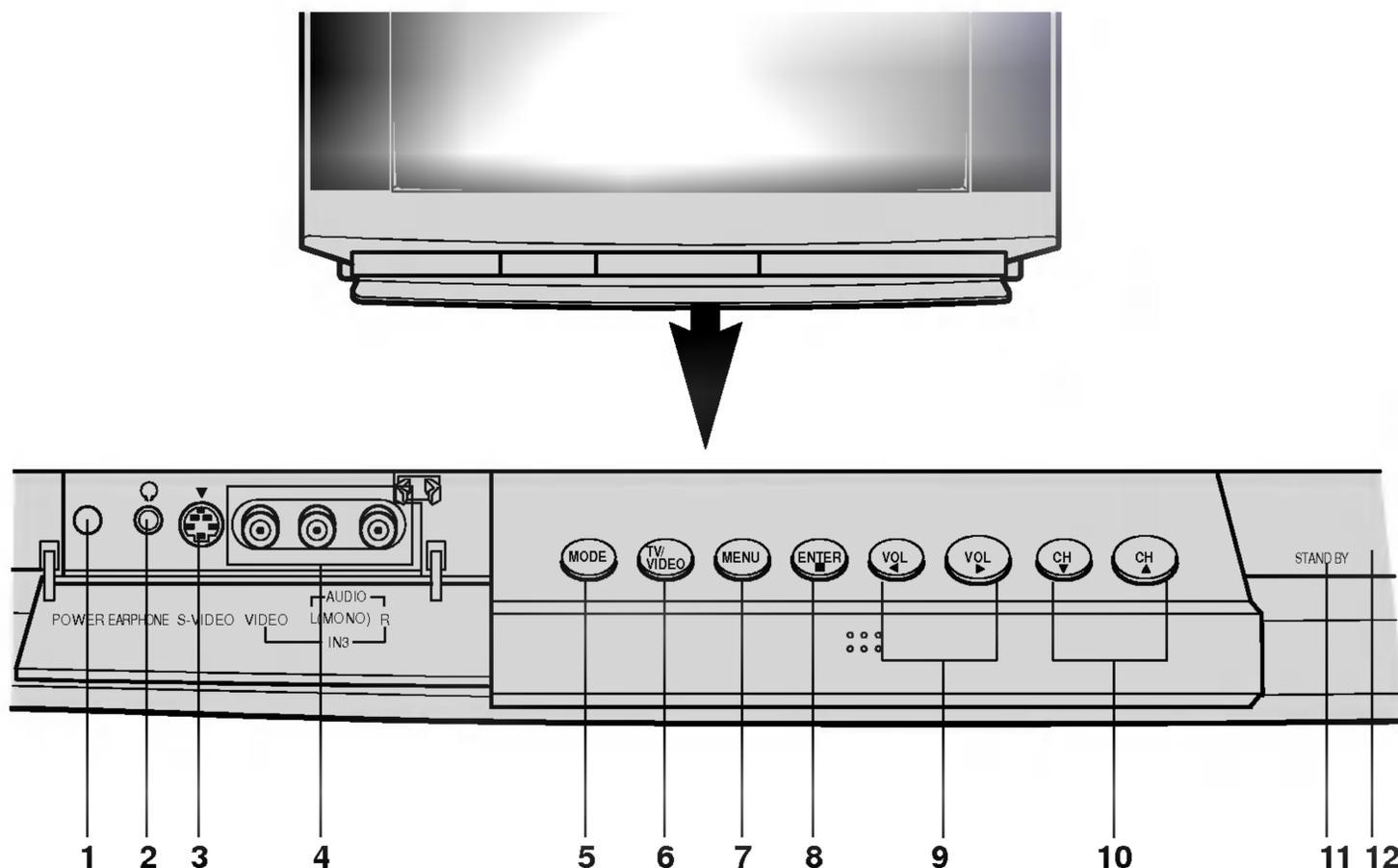
## ● Connecting a CATV cable

If you subscribe to a CATV system, change the antenna connection as described below.



1. Remove the 300 to 75 ohm adapter or the cable from the set if attached.
2. Connect the CATV cable (75 ohm coaxial cable) to the 75 ohm antenna jack.

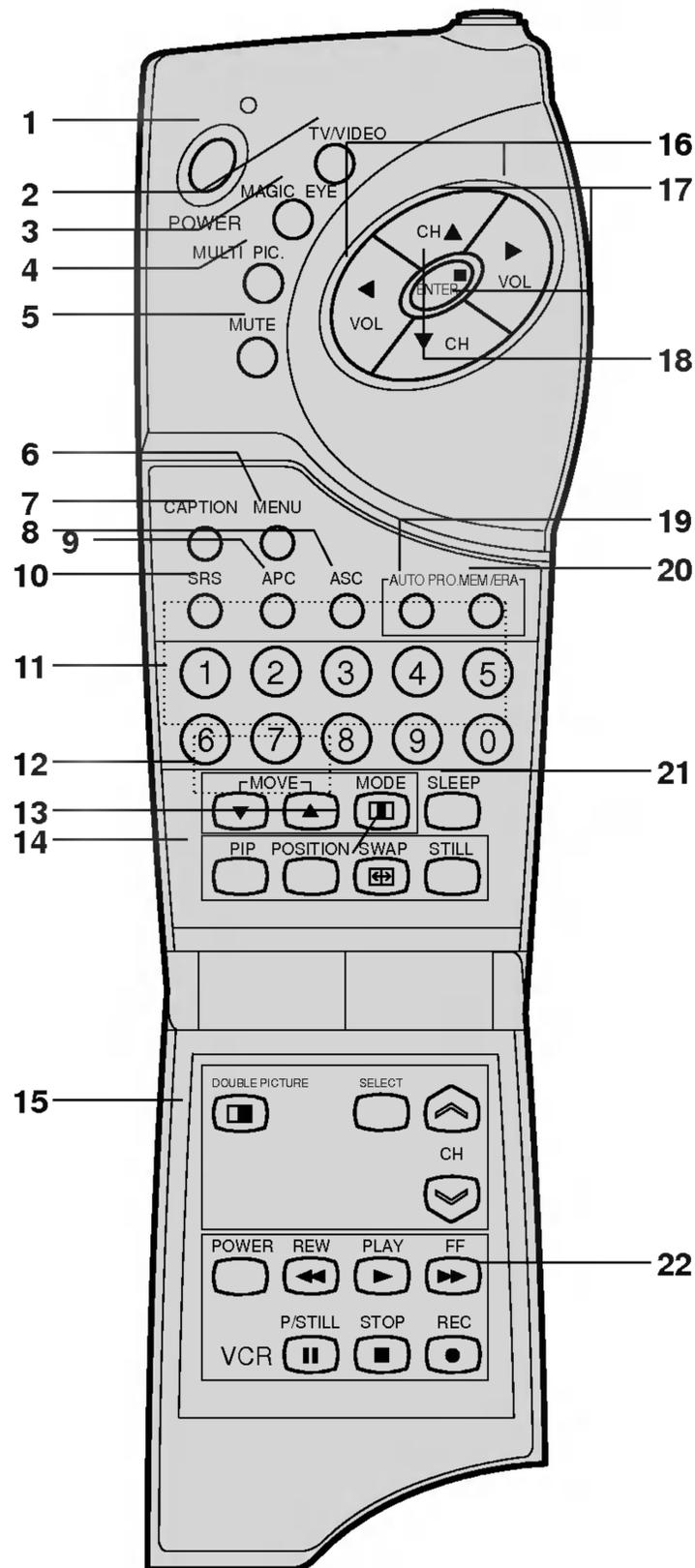
## ● Using the front panel controls



1. **POWER BUTTON**  
Switches the TV on to standby mode, or turn the TV on or off.  
To turn the TV on from standby mode, press any button except VCR buttons on the remote control, or on the set.
2. **EARPHONE JACK**
3. **S-VIDEO JACK**  
Connect an S-VHS VCR to this jack.  
Press the **TV/VIDEO** button until VIDEO-3 is displayed on the screen.
4. **IN 3 JACKS**  
Connect external equipment outputs to these inputs. Press the **TV/VIDEO** button until VIDEO-3 is displayed on the screen.
5. **MODE BUTTON**  
Press this button to select the desired main picture format ; **NORMAL**, **SPECTACLE**, **WIDE**, **ZOOM1** or **ZOOM2**.
6. **TV/VIDEO BUTTON**  
Press this button to select TV or Video mode.
7. **MENU BUTTON**  
Press this button to select a menu.
8. **ENTER(■) BUTTON**  
Press this button to check current time, channel and sound, clear the displayed menu, or memorize the adjusted menu.
9. **VOLUME ◀(DOWN)/▶(UP) BUTTONS**  
Press these buttons to increase or decrease volume level. And use these buttons to enter or adjust the selected menu when menu is displayed on the screen.
10. **CHANNEL ▲(UP)/▼(DOWN) BUTTONS**  
Press these buttons to select the desired channel or menu item when menu is displayed on the screen.
11. **STANDBY INDICATOR**  
Lights in red when the TV is in stand by mode.
12. **REMOTE CONTROL SENSOR**

## DESCRIPTION OF CONTROLS

### ● Using the remote control



#### Press these buttons;

1. **POWER** BUTTON  
To switch the set on or switch to standby mode.
2. **TV/VIDEO** BUTTON  
To select TV or VIDEO mode.
3. **MAGIC EYE** BUTTON  
To switch on or off magic eye picture.
4. **MULTI PIC.** BUTTON  
To select a multi picture; 4 PICTURE, 8 PICTURE or 9 PICTURE.
5. **MUTE** BUTTON  
To mute the sound. Again to restore the muted sound.
6. **MENU** BUTTON  
Press this button to select a menu.
7. **CAPTION** BUTTON  
To select a closed caption mode; OFF, MODE 1, MODE 2, TEXT 1 or TEXT 2.
8. **ASC(Auto Sound Control)** BUTTON  
To select the sound appropriate to your viewing program character ; ASC OFF, ASC NEWS, ASC CINEMA, ASC SPORT or ASC MUSIC.
9. **APC(Auto Picture Control)** BUTTON  
To adjust the factory preset pictures corresponding to the lighting around.
10. **SRS(Sound Retrieval System)** BUTTON  
To switch on or off the SRS mode.
11. **NUMBER** BUTTONS  
To select the desired channel directly.
12. **MOVE** BUTTONS  
To move the position of main screen when viewing in ZOOM1 and ZOOM2 mode.
13. **MODE** BUTTON  
To select the desired main picture format ; NORMAL, SPECTACLE, WIDE, ZOOM1 or ZOOM2.

## DESCRIPTION OF CONTROLS

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### 14. PIP(Picture in Picture) BUTTONS

#### PIP

To switch on or off a sub screen.

#### POSITION

To move a sub screen position.

#### SWAP

To swap main and sub screens.

#### STILL

To freeze motion of the sub screen.

### 15. DOUBLE PICTURE BUTTONS

#### DOUBLE PICTURE

To select **DOUBLE PICTURE 1** or **DOUBLE PICTURE 2**, or switch off the double picture.

#### SELECT

To select the input mode of the right double picture.

#### CH $\wedge$ V

To select a channel of the right double picture.

### 16. VOLUME $\blacktriangleleft$ (DOWN)/ $\blacktriangleright$ (UP) BUTTONS

- To increase or decrease volume level.
- To enter or adjust the selected menu when menu is displayed on the screen.

### 17. CHANNEL $\blacktriangle$ (UP)/ $\blacktriangledown$ (DOWN) BUTTONS

- To select the desired channel.
- To select the desired menu item when menu is displayed on the screen.

### 18. ENTER( $\blacksquare$ ) BUTTON

- To check current time, channel and sound.
- To clear the displayed menu.
- To memorize the adjusted menu.

### 19. AUTO PROG. BUTTON

To memory channels by AUTO PROGRAM.

### 20. MEMORY/ERASE BUTTON

To memory or erase the desired channel.

### 21. SLEEP

To set the sleep timer.

### 22. VCR FUNCTION BUTTONS

These buttons control an LG video cassette recorder only.

#### POWER BUTTON

#### REW/ $\blacktriangleleft\blacktriangleleft$ BUTTON

Press this button during the STOP mode to rewind the tape, or during the PLAY mode for fast reversed picture search (REVIEW mode).

#### PLAY BUTTON

#### FF/ $\blacktriangleright\blacktriangleright$ BUTTON

Press this button during the STOP mode to advance the tape, or during the PLAY mode for fast forward picture search (CUE mode).

#### REC BUTTON

To record any program.

#### STOP BUTTON

Press this button to stop the tape.

#### P/STILL BUTTON

Press once to pause the recording or show a still frame while playing. Press again to resume recording or playback.

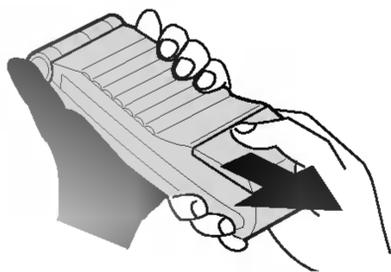
## Fitting Batteries in the Remote Control Unit

The remote control is powered by batteries. This requires two type **AA** batteries for operation. To ensure consistent operation, change the batteries about once a year.

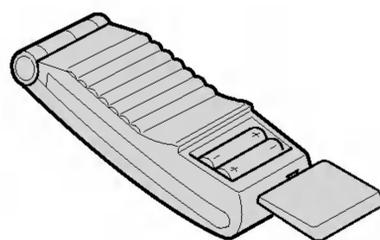
**Caution:** Batteries installed incorrectly may leak and damage the remote control.

Do not mix old and new batteries or different types of batteries (for example, standard and alkaline).

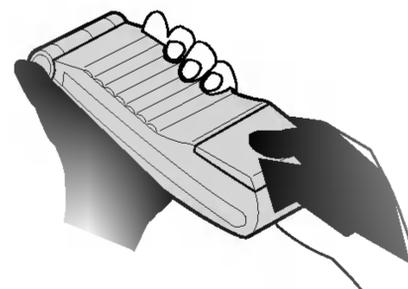
1. Remove the battery compartment cover by sliding it in the arrowhead direction.



2. Insert new batteries as indicated by the polarity markings (+ and -) inside the compartment.



3. Replace the battery compartment cover.



Before operating your TV, make sure the following instructions have been completed.

- Your TV has been connected to an antenna or a cable system.
- Your TV has been plugged in a power outlet.

### ● Turning on the TV

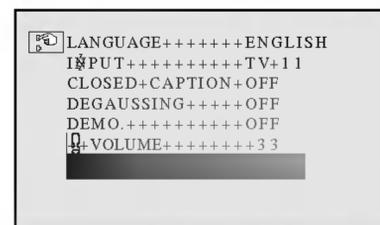
1. Press the **POWER** button on the set.  
The set switches to standby mode and the standby indicator lights up in red.
2. To switch the set on from standby mode, press any button except for VCR buttons on the remote control, or on the set.  
A channel number appears on the screen. If the STEREO/SAP broadcast is being received the message **ST.SAP** also appears on the screen.

Press the **POWER** button on the remote control. It reverts to standby mode.  
To switch the set off, press the **POWER** button on the set.

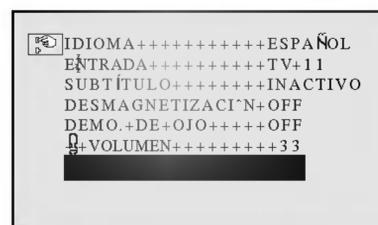
The message **AUTO PROGRAM** appears on the screen when the set is turned on for the first time after you purchase the TV set. To memorize all the active channels in your area, press the ◀/▶ button.  
For **AUTO PROGRAM**, refer to page 10.

### ● Selecting the on screen language

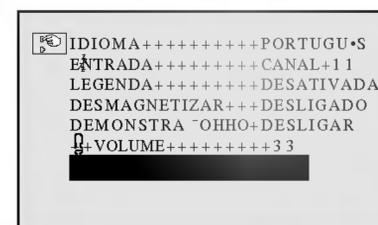
1. Repeatedly press the **MENU** button until the function menu appears as shown right.
2. Press the ▲/▼ button to select **LANGUAGE**.
3. Press the ◀/▶ button to select the desired language; **ENGLISH**, **ESPAÑOL** or **PORTUGUÊS**.
4. Press the **ENTER** (■) button.  
From this point on, the on-screen display will be presented in the language of your choice.



<English>



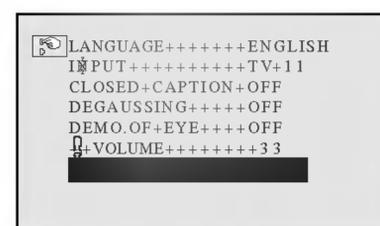
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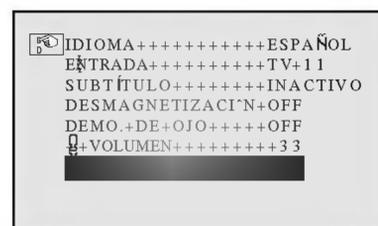
<Portuguese>

### ● Selecting the input signal

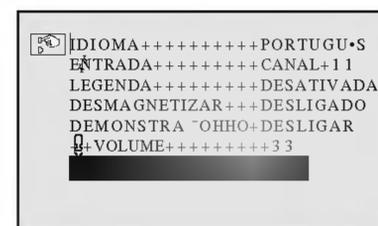
1. Repeatedly press the **MENU** button until the function menu appears as shown right.
2. Press the ▲/▼ button to select **INPUT**.
3. Press the ◀/▶ button to select the desired input signal; **TV**, **CATV**, **VIDEO-1**, **VIDEO-2** or **VIDEO-3**.
4. Press the **ENTER** (■) button to enter the selected input signal.



<English>



<Spanish>



<Portuguese>

## BASIC TV OPERATION

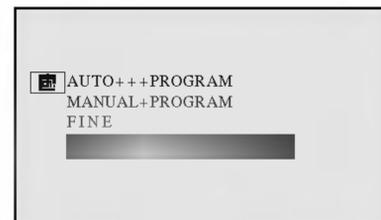
### ● Memorizing channels

This function is to memorize all the active channels in your area before using the TV. There are two ways of memorizing channels. One is called AUTO PROGRAM and the other is called MANUAL PROGRAM.

In the AUTO PROGRAM the TV will be memorized the channels in ascending order. In the MANUAL PROGRAM you can memorize the channels in whatever order you desire.

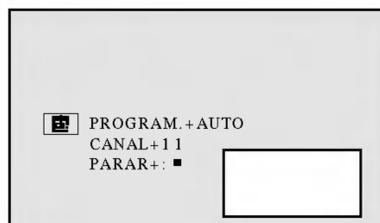
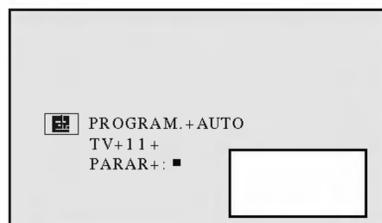
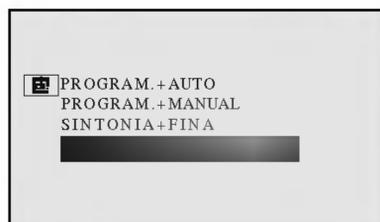
In the video mode AUTO or MANUAL PROGRAM isn't operated. So in any video mode, the AUTO PROGRAM or MANUAL PROGRAM is not displayed. First select the TV or CATV mode.

#### Memorizing the channels by AUTO PROGRAM



<English>

AUTO PROGRAM searches and memorizes all the active channels in your area then you can select the desired channel with the **CH ▲/▼** buttons.



<Spanish>

<Portuguese>

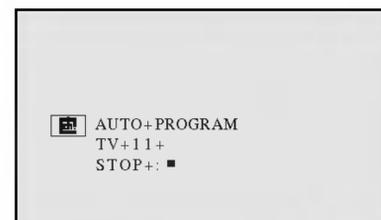
1. Repeatedly press the **MENU** button until the program menu appears as shown left.
2. Press the **▲/▼** button to select **AUTO PROGRAM**.
3. Press the **◀/▶** button to start auto programming.

The AUTO PROGRAM starts from now. The number of searching channels appear on the screen one by one and the picture of searching channels appear through the sub screen on the right lower side of main screen.

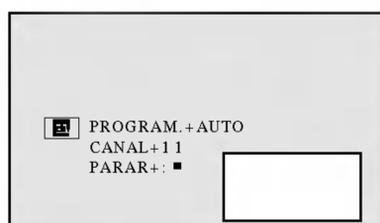
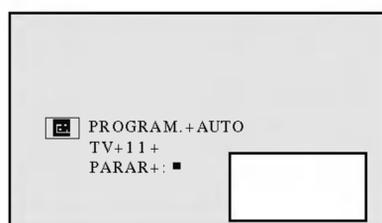
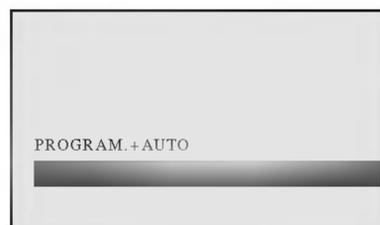
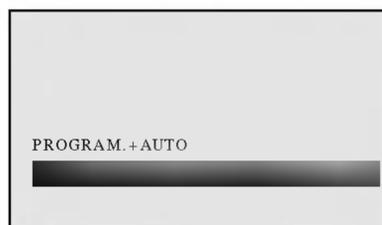
- Notes:**
- To check the memorized channels, press the **▲** or **▼** button after completing the AUTO PROGRAMMING.
  - To memorize the cable channels by AUTO PROGRAM, select the **CATV** mode (refer to "Selecting the input signal") and repeat above process 1-3.
  - When you want to restore the deleted channel or to memorize the unscrambled channel, just press the **AUTO PRO.** button twice.

#### Using the AUTO PRO. button

You can conveniently perform AUTO PROGRAM using the **AUTO PRO.** button on the remote control.



<English>



<Spanish>

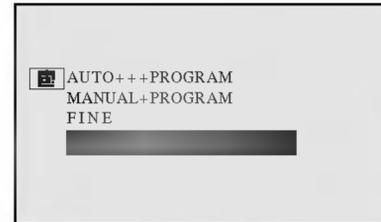
<Portuguese>

1. Press the **AUTO PRO.** button. The on screen display appears as shown left.
2. Press the **AUTO PRO.** button again to start auto programming.

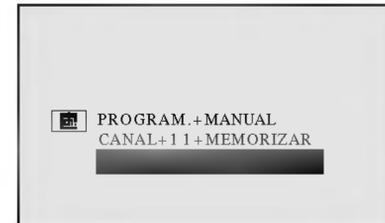
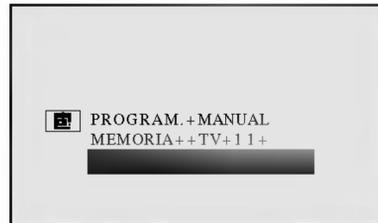
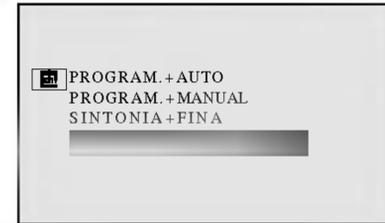
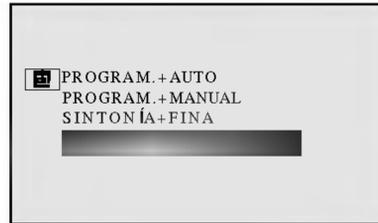
If you do not want auto programming, press the **ENTER (■)** button.

### Memorizing the channels by MANUAL PROGRAM

1. Repeatedly press the **MENU** button until the program menu appears as shown right.
2. Press the **▲/▼** button to select **MANUAL PROGRAM**.
3. Press the **◀/▶** button to display the **MANUAL PROGRAM** mode.
4. Press the **▲/▼** button to select the channel number you want to memorize or erase.
5. Press the **◀/▶** button to select **MEMORY** or **ERASE**.
6. Press the **ENTER(■)** button.



<English>



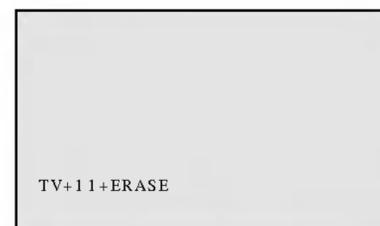
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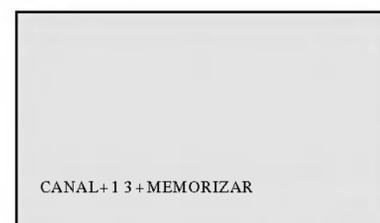
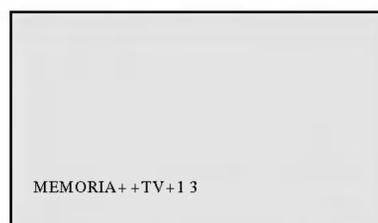
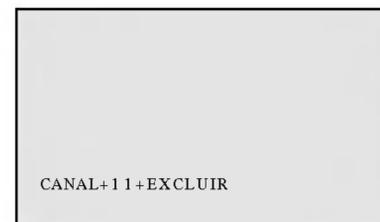
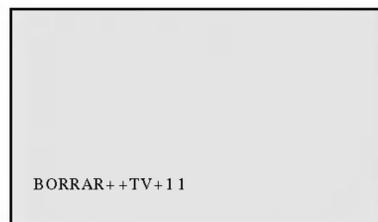
### Using the MEM/ERA button

You can conveniently perform **MANUAL PROGRAM** using the **MEM/ERA** button on the remote control without entering the program menu.

1. Press the **▲/▼** button to select the channel number you want to memorize or erase.
2. Press the **MEM/ERA** button. The on screen display appears as shown right.
3. Press the **◀/▶** button to select **MEMORY** or **ERASE**.
4. Press the **ENTER(■)** button.



<English>



<Spanish>

<Portuguese>

### ● Selecting channels

Press the **▲** or **▼** button to conveniently select the upper or lower channel than the channel being viewed, or **NUMBER** buttons to directly select the desired channel.



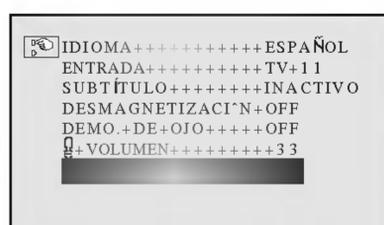
## BASIC TV OPERATION

### ● Adjusting the volume

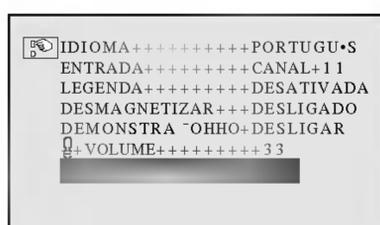
Press the ► button to increase the volume level or ◀ button to decrease the volume level.

Press the **MUTE** button to mute the sound. The display **MUTE** appears on the screen.  
Press the **MUTE**, **VOL◀/▶** or **ASC** button to restore the muted sound.

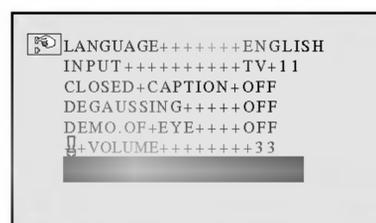
### ● Adjusting the Earphone volume



<Spanish>



<Portuguese>

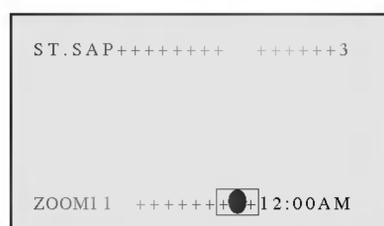


<English>

1. Repeatedly press the **MENU** button until the function menu appears as shown left.
2. Press the ▲/▼ button to select **VOLUME**.
3. Press the ◀/▶ button to adjust the earphone volume of sub screen.
4. Press the **ENTER(■)** button.

**Note :** While viewing PIP or Double picture, only the sound of sub screen or Double picture 2 is heard through the earphone. When a sub screen or double picture 2 disappears from the screen, you can hear the sound of main screen or double picture 1.

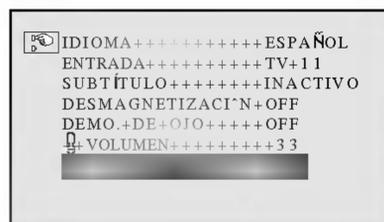
### ● Recalling the current TV mode



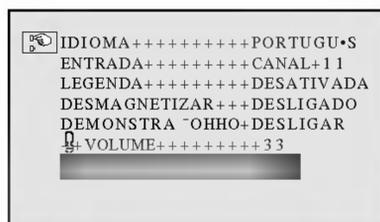
To recall the current channel number, time, sound information and picture format mode, press the **ENTER(■)** button. After 3 seconds the on-screen display disappears automatically.

### ● Auto demonstration

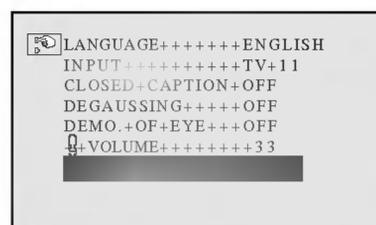
Auto demonstration allows you to review various menus (Magic eye, SRS, Double picture, PIP, Multi picture) in the TV.



<Spanish>



<Portuguese>



<English>

1. Repeatedly press the **MENU** button until the function menu appears as shown left.
  2. Press the ▲/▼ button to select **DEMO.**
  3. Press the ◀/▶ button and the demonstration starts.
- When the demonstration reaches the last display, it starts again from the beginning. To stop auto demonstration, press any button except for VCR buttons.

## ● Adjusting the picture



<English>

You may adjust the picture levels (**CONTRAST**, **BRIGHTNESS**, **COLOR**, **TINT**, **SHARPNESS**, **FILTER**) of the screen manually at any time, but these adjustments are not required if the picture is satisfactory.

1. Repeatedly press the **MENU** button until the picture menu appears as shown right.
2. Press the **▲/▼** button to select your desired picture item.

- **CONTRAST**

This feature is to adjust the overall contrast and color level of the picture.

- **BRIGHTNESS**

This feature is to adjust the brightness level of black areas in the picture.

- **COLOR**

This feature is to adjust the intensity of the colors in the picture.

- **TINT**(NTSC only)

This feature is to adjust the color of the flesh tones.

**Note** : In the broadcasting system PAL-M and PAL-N, or in double picture, the picture item **TINT** is not displayed.

- **SHARPNESS**

This feature is to adjust the clarity for the clearest picture.

- **FILTER ON/OFF**

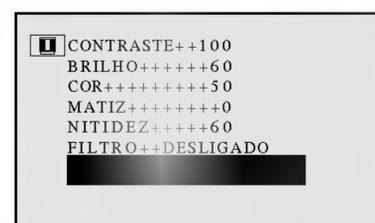
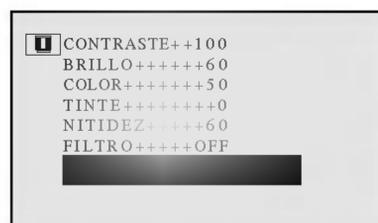
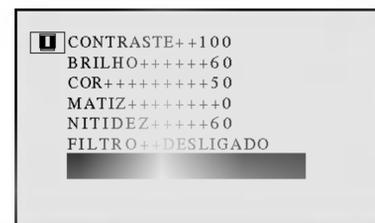
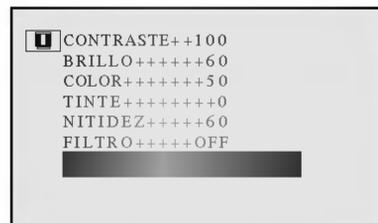
reduces the picture noise which may appear on the screen during watching the TV in a weak signal area.

**FILTER ON**: The picture noise is reduced, on the other hand the resolution is poor.

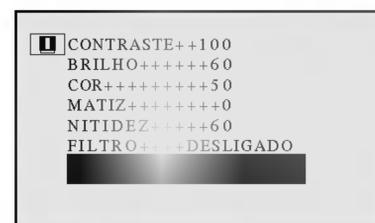
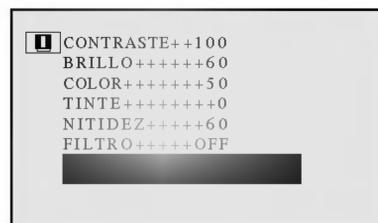
**FILTER OFF**: The resolution is good when the **FILTER ON** is selected in no picture noise condition.

3. Press the **◀/▶** button to adjust the level.

4. Press the **ENTER (■)** button.



(For example, **CONTRAST**)

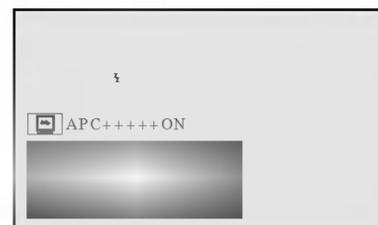


(For example, **COLOR**)

<Spanish>

<Portuguese>

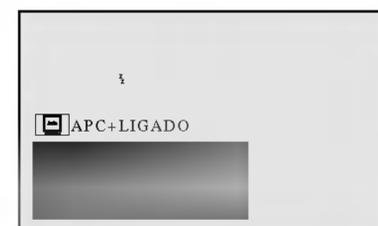
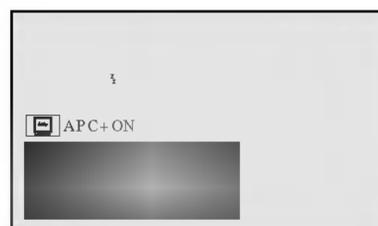
## ● Auto picture control



<English>

You can enjoy the factory preset picture as you prefer because the best pictures for day and night are automatically adjusted.

1. Press the **APC** button.  
Each time you press this button, the **APC ON** or **OFF** mode alternatively appears.
2. Press the **◀/▶** button to tune the best picture.
3. Press the **ENTER (■)** button.

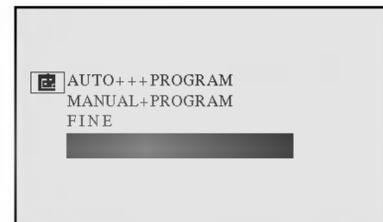


<Spanish>

<Portuguese>

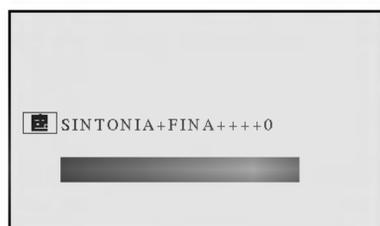
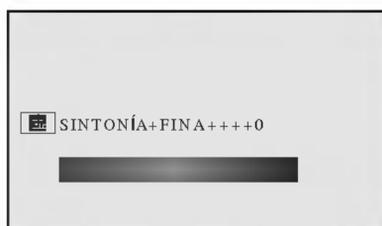
## PICTURE CONTROL

### ● Adjusting the fine tuning



<English>

This function is to adjust the picture to stable condition when it is poor, for example, a horizontal stripe, twisted picture or no color in broadcasting.



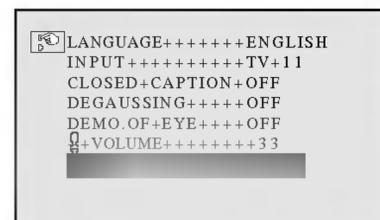
<Spanish>

<Portuguese>

1. Repeatedly press the **MENU** button until the program menu appears as shown left.
2. Press the **▲/▼** button to select **FINE**.
3. Press the **◀/▶** button to display the **FINE** mode.
4. Press the **◀/▶** button to tune the desired picture condition.
5. Press the **ENTER (■)** button to memorize.

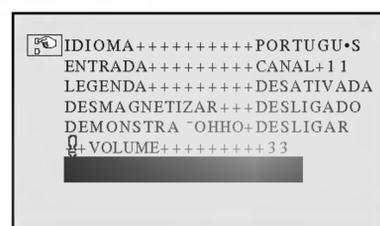
- Notes:**
- To release the memorized fine tuning, again program all the channels by **AUTO PROGRAM**.
  - If the fine tuned picture is memorized, the color of the channel number and **ST.** or **SAP** (if broadcast) changes to yellow.

### ● Operating the degauss



<English>

Owing to the super large color Braun Tube in this TV set the magnetic field of the earth may influence on the color purity of picture by neighbor magnetic substance or installation direction of the TV set. The stripes may appear on the screen or the color may not be equal in the corner. You can enjoy the program in high color quality by operating the Degauss.



<Spanish>

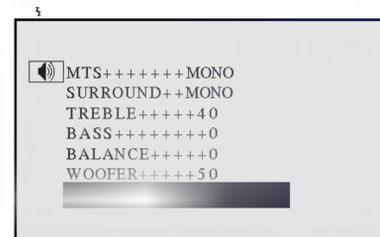
<Portuguese>

1. Repeatedly press the **MENU** button until the function menu appears as shown left.
2. Press the **▲/▼** button to select **DEGAUSSING**.
3. Press the **◀/▶** button to select **ON** or **OFF**.  
After the degaussing function works, **ON** mode switches to **OFF** mode.
4. Press the **ENTER (■)** button.

**Note :** Do not operate this function often because the life of CPT may be shortened.

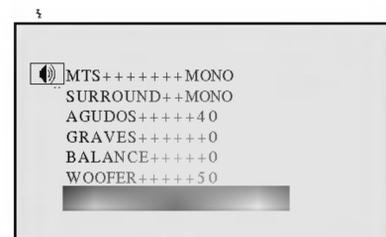


## ● Adjusting the Sound

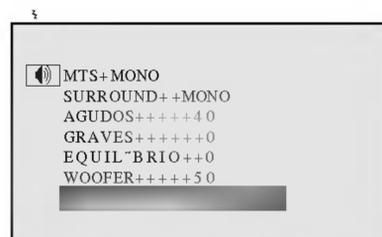


<English>

This is the function to manually adjust the desired sound levels (MTS, SURROUND, TREBLE, BASS, BALANCE, WOOFER) as you like.



<Spanish>



<Portuguese>

1. Repeatedly press the **MENU** button until the sound menu appears as shown left.
2. Press the **▲** or **▼** button to select your desired sound item.
3. Press the **◀/▶** button to adjust the sound level.

- **MTS**  
This feature receives MTS stereo programs and any SAP (Secondary Audio Program) that accompanies the stereo program, as the system to be transmitted one additional sound signal as well as the original one.  
Select **MONO**, **STEREO** or **SAP**.
- **SURROUND**  
This mode is suited music or show program. You are surrounded by the sound effect as in a concert hall by using this function.  
Select **OFF**, **STEREO** or **MONO**.
- **TREBLE**  
This feature is to increase or decrease treble.
- **BASS**  
This feature is to increase or decrease bass.
- **BALANCE**  
This feature is to balance sound from the left or right speaker.
- **WOOFER**  
To stress and emphasize heavy sound .

4. Press the **ENTER (■)** button.

### Using the SRS (Sound Retrieval System) button

The SRS (Sound Retrieval System) creates an all around sound as in a concert hall.



<English>



<Spanish>

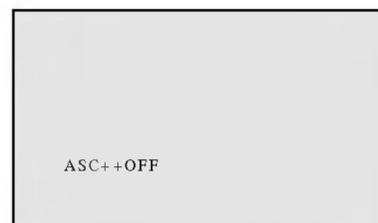


<Portuguese>

Press the **SRS** button to switch on or off the SRS mode.

- Notes :**
- Select **MONO** if you want to listen to the mono sound during STEREO/SAP broadcasting.
  - SRS is a trademark of SRS Labs. Inc and manufactured under license from SRS Labs. Inc.

### ● Auto sound control



<English>

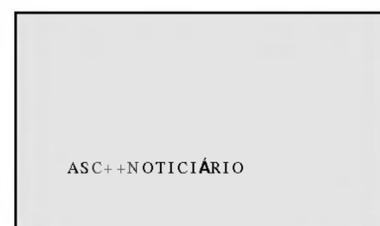
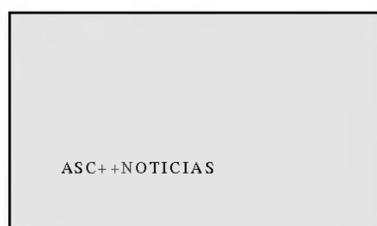
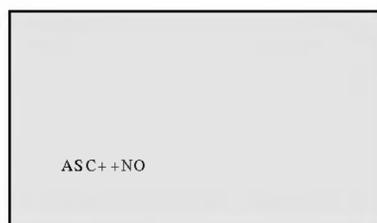
You can enjoy the best sound without any special adjustment because this TV set automatically adjusts the sound appropriate to viewing program character by self-intelligence.

Press the **ASC** button continuously to select the desired mode.

Each time you press this button, the on-screen display appears as shown right.

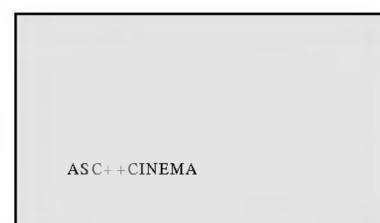
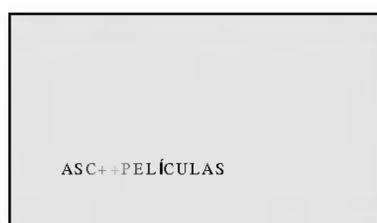
- **ASC NEWS**

You can listen to the news program more definitely.



- **ASC CINEMA**

You can enjoy the cinema more perspective.



- **ASC SPORT**

You can enjoy the sports program more actually.



- **ASC MUSIC**

You can enjoy the vivid sound effect such as in a concert hall.

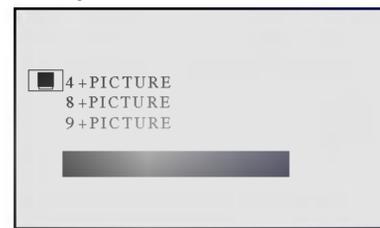


<Spanish>

<Portuguese>

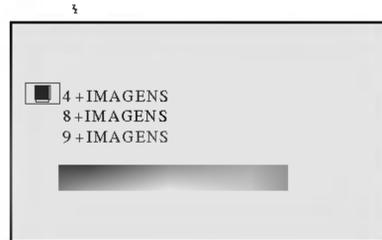
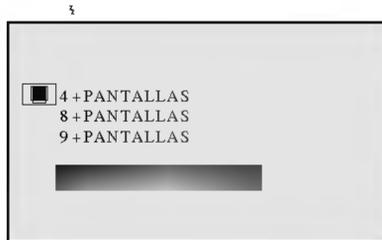
**Note:** If you adjust the sound while Auto Sound Control function is available the Auto Sound Control function is turned off automatically.

## ● Enjoying the multi picture

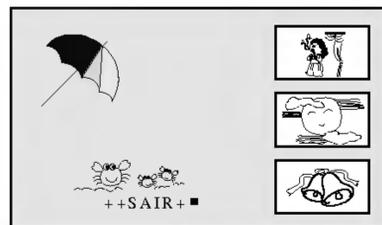
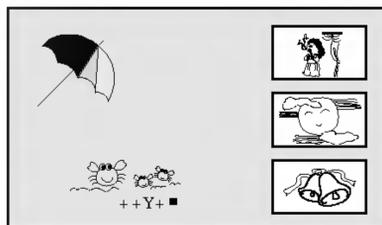


<English>

This function searches the stored channels via 4, 8 or 9 sub screens.



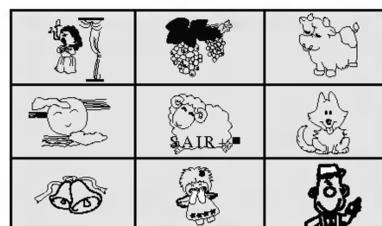
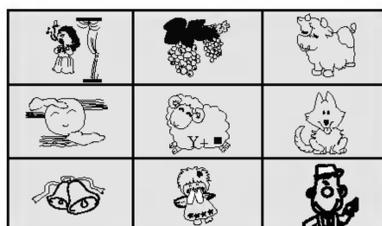
1. Repeatedly press the **MENU** button until the multi picture menu appears as shown left.
2. Repeatedly press the **MULTI PIC.** button or **▲/▼** button to select **4 PICTURE**, **8 PICTURE** or **9 PICTURE**.
3. Press the **◀/▶** button.  
All the stored channels are searched on 4, 8 or 9 sub screens.



- 4 PICTURE



- 8 PICTURE



- 9 PICTURE

If you want to stop a channel search, press the **ENTER (■)** button.

<Spanish>

<Portuguese>

- Notes :**
- You can hear the sound of main screen through the earphone during multi picture operation.
  - The Magic eye and APC(Auto Picture Control) functions do not operate in 8 PICTURE or 9 PICTURE.

You can watch two different programs on double picture of same size.

In the double picture and PIP, the vertical size of picture may be different according to the broadcasting system received.

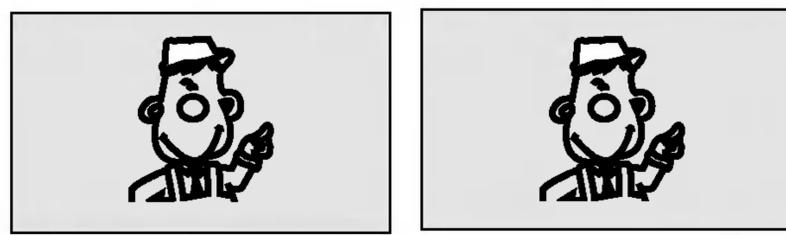
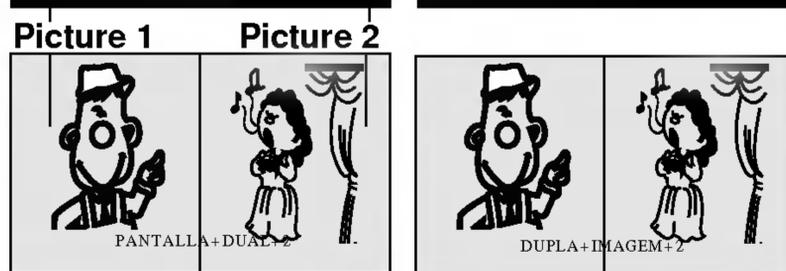
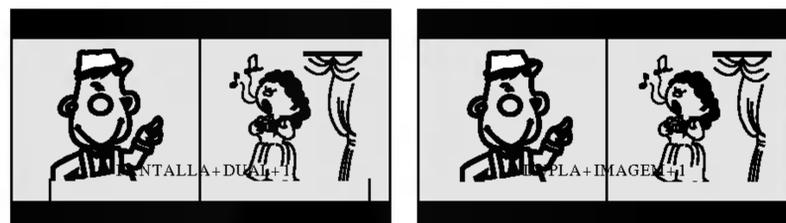
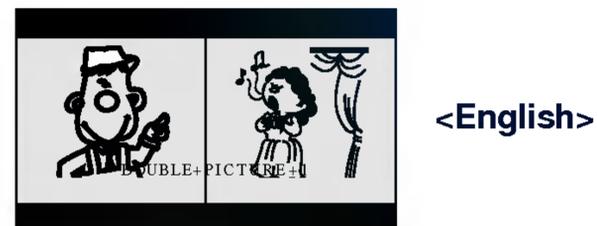
## ● Selecting double picture

Repeatedly press the **DOUBLE PICTURE** button.

Each time you press the button, the double picture mode; **DOUBLE PICTURE 1**, **DOUBLE PICTURE 2** or normal TV mode changes as shown right.

**Picture 1** : The current channel appears as Picture 1.

**Picture 2** : The sub picture in PIP appears as Picture 2 in double picture.



<Spanish>

<Portuguese>

## ● Selecting the input mode of Picture 2

Press the **SELECT** button to select the desired input mode; TV mode, CATV, VIDEO-1, VIDEO-2 or VIDEO-3.

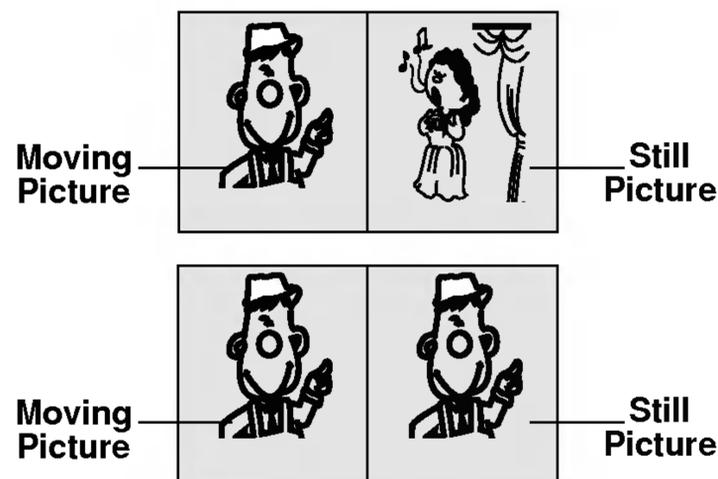
## ● Selecting channels of Picture 2

Press the **CH v/∧** button to select the desired channel of Picture 2.

## ● Still Picture 2

Press the **STILL** button.  
The Picture 2 stands still.  
To cancel the still picture, press any button except for VCR buttons on the remote control, or on the set.

- Notes :**
- The still picture of picture 1 appears on the picture 2 screen if you press the **STILL** button while one picture is displayed.
  - If you press the **MODE** button while double picture is displayed, the picture returns to one picture.



## ● Swapping between Picture 1 and Picture 2

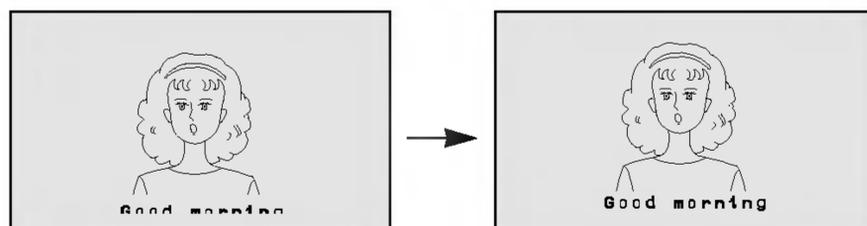
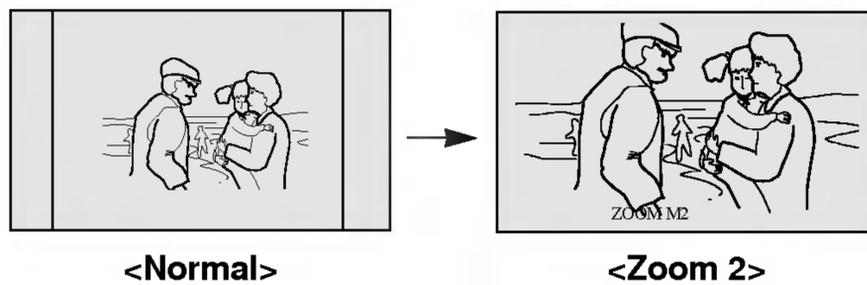
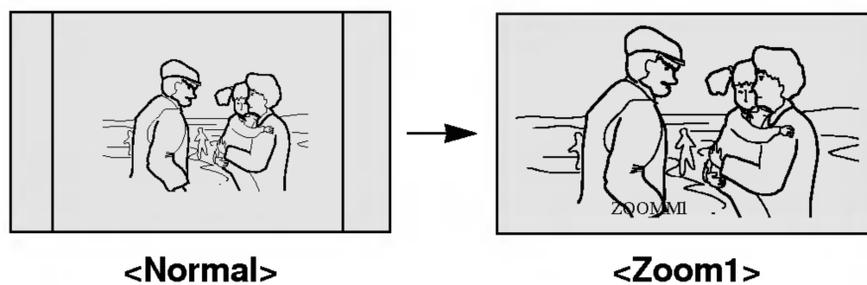
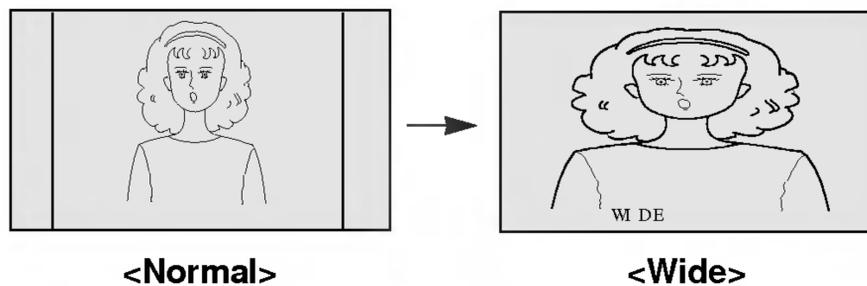
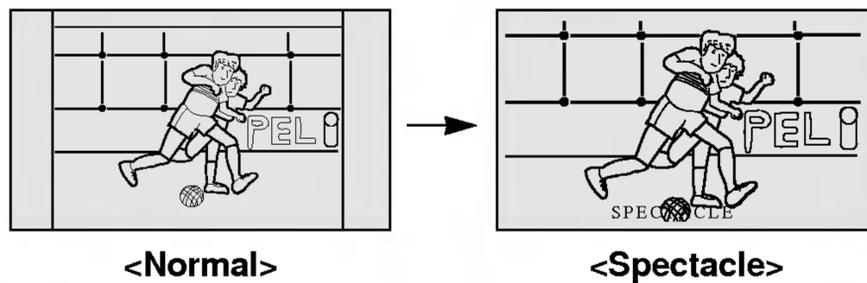
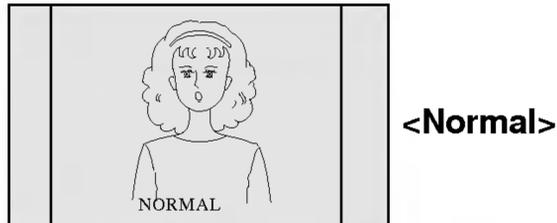
Press the **SWAP** button.  
The Picture 1 and Picture 2 exchange their places.

# WIDE PICTURE

There are five modes (**NORMAL**, **SPECTACLE**, **WIDE**, **ZOOM1** and **ZOOM2**) in picture format. Select your desired picture format.

Press the **MODE** button to select your desired picture format.

Each time you press this button, the screen is displayed in this order of **NORMAL**, **SPECTACLE**, **WIDE**, **ZOOM1** and **ZOOM2**.



- **NORMAL**

This picture format is 4 to 3 of general TV.

- **SPECTACLE**  
(ESPECTACULAR/PANORAMA)

You can enjoy sports game more lively through the **SPECTACLE** mode.

The **SPECTACLE** screen is that the screen is maintained the size of 4:3 in center portion but become magnified in the edge so that the screen 16:9 is full.

- **WIDE (ANCHA/WIDE)**

You can enjoy the cinema (the picture format of 16:9) or general TV program through the **WIDE** mode.

The screen 16:9 is viewed just like that but the screen 4:3 is magnified to the left and right so that the screen 16:9 is full.

- **ZOOM1**

You can enjoy the cinema in a vast screen through the **ZOOM1** mode.

The screen 4:3 is magnified to the upper/lower and left/right sides so that the screen 16:9 is full. The bottom and top of the picture may be lost.

- **ZOOM2**

The **ZOOM2** screen is similar to Zoom1. But the picture is shifted upwards so that subtitles at the bottom of the picture can be viewed, therefore the top of the picture is lost.

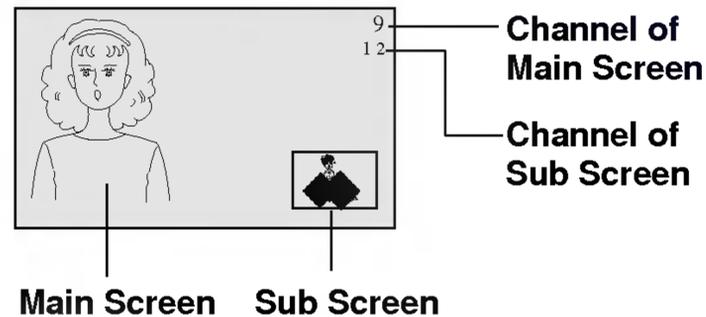
▶ If captions do not appear in **ZOOM1** or **ZOOM2** mode---

You can adjust the picture position to upper or lower by using the **MOVE** ▲ or ▼ button.

## ● Watching the picture in picture (PIP)

This function is to call up a sub screen (PIP) within the main screen. So you can watch two different programs at the same time. You can hear the sound of sub screen via the earphone.

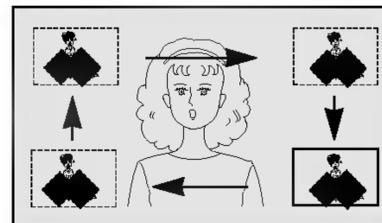
1. Press the **PIP** button to switch on the sub screen as shown left.
2. Press the **SELECT** button to select the input signal of the sub screen. Each time you press **SELECT** button, the input signal is displayed on the top right-hand corner of the main screen one by one as shown right while the sub screen still remains within main screen.



3. Press the **CH V/Δ** button to select the desired channel of the sub screen. The selected channel number of sub screen is displayed under that of main screen.
4. To listen to the sound, connect an earphone to the earphone jack on the front panel and adjust the earphone volume.

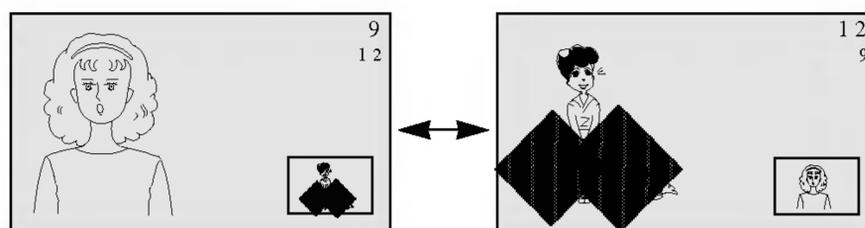
## ● Moving the PIP screen

Press the **POSITION** button continuously to select your desired position of sub screen. Each time you press this button the sub screen moves to another corner of the main screen as shown right.



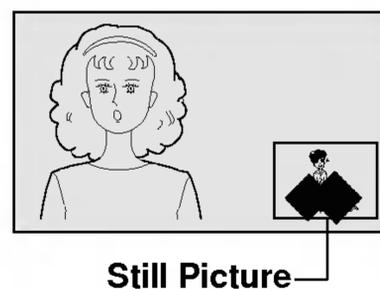
## ● Swapping screens

Press the **SWAP** button. Each time you press this button, the main screen and the sub screen exchange their places.



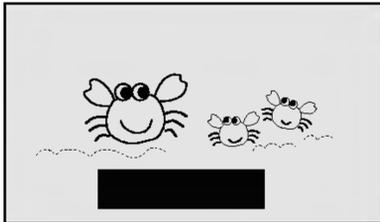
## ● Still PIP picture

Press the **STILL** button and the sub picture stands still. To cancel the still picture, press the **STILL** button again.



Closed captioning is a process which converts the audio portion of a television program into written words, which then appear on the television screen in a form similar to subtitles. Closed captions allow viewers to read the dialogue and narration of television programs.

## ● Using Closed Captions



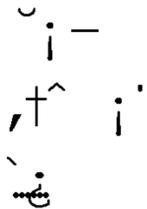
Captions are the subtitles of the dialogue and narration of television programs. For prerecorded programs, program dialogue can be arranged into captions in advance. It's possible to caption a live program by using a process called "real-time captioning", which creates captions instantly. Real-time captioning is normally done by professional reporters using a machine shorthand system and computer for translation into English. Captioning is an effective system for the hearing-impaired, and it can also aid in teaching language skills.

- The picture at left shows a typical caption.

## Caption Tips

- Not all TV broadcasts include closed caption signals.
- Sometimes TV stations broadcast two different caption signals on the same channel. By selecting **MODE 1** or **MODE 2**, you can choose which signal you view. **MODE 1** is usually the signal with the captions, while **MODE 2** might show demonstration or programming information.
- Your TV might not receive caption signals normally in the following situations.

1 Poor reception conditions are encountered:



### ■ IGNITION:

Picture may flutter, drift, suffer from black spots or horizontal streaking. Usually caused by interference from automobile ignition systems, neon lamps, electrical drills and other electrical appliances.

### ■ GHOSTS:

Ghosts are caused when the TV signal splits and follows two paths. One is the direct path and the other is reflected off tall buildings, hills or other objects. Changing the direction or position of the antenna may improve reception.

### ■ SNOW:

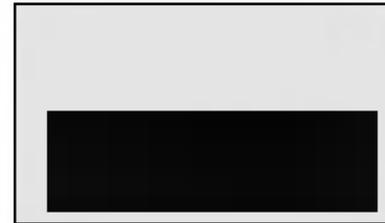
If your receiver is located at the weak, fringe area of a TV signal, your picture may be marred by small dots. It may be necessary to install a special antenna to improve the picture.

- 2 An old, bad or illegally recorded tape is played.
- 3 Strong, random signals from a car or airplane interfere with the TV signal.
- 4 The signal from the antenna is weak.
- 5 The program wasn't captioned when it was produced, transmitted or taped.

● **Using the Text Function**

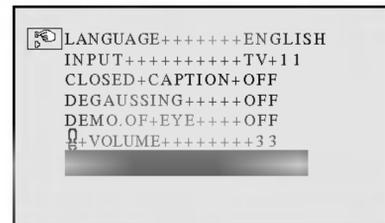
Text services give a wide variety of information on all kind of subjects (ex. captioned program lists, weather forecasts, stock exchange topics, news for hearing-impaired---) through the full TV screen.

But not all stations offer text services, even though they might offer captioning.



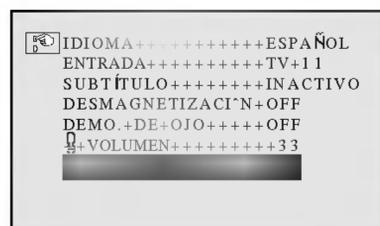
**Note:** In the event you receive a poor signal, an empty black box may appear and disappear, even when the text mode is selected. This is normal in such an event.

● **Operating the Caption and Text**

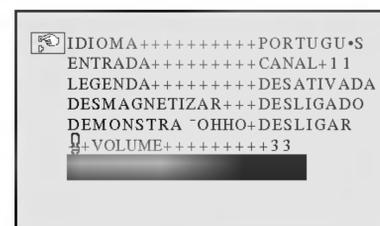


<English>

1. Repeatedly press the **MENU** button until the function menu appears as shown right.
2. Press the **▲/▼** button to select **CLOSED CAPTION**.
3. Press the **◀/▶** button to select **OFF**, **MODE 1**, **MODE 2**, **TEXT 1** or **TEXT 2**.
4. Press the **ENTER (■)** button to exit.



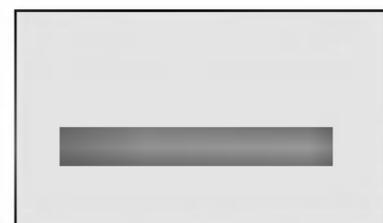
<Spanish>



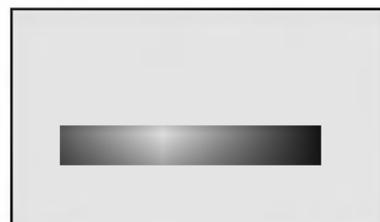
<Portuguese>

**Using the CAPTION button**

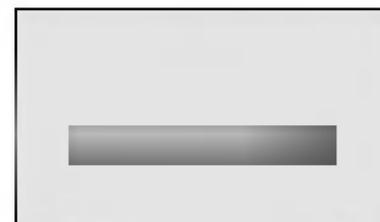
1. Press the **CAPTION** button to display the **CLOSED CAPTION** mode.
2. Press the **◀/▶** or **CAPTION** button to select **OFF**, **MODE 1**, **MODE 2**, **TEXT 1** or **TEXT 2**.
3. Press the **ENTER (■)** button to exit.



<English>



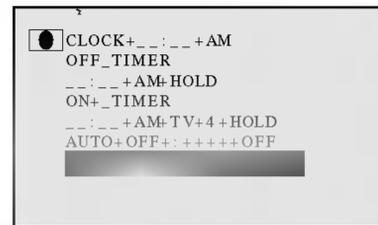
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<Portuguese>

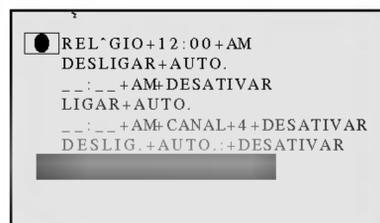
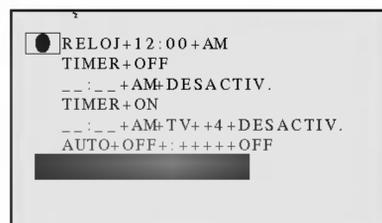
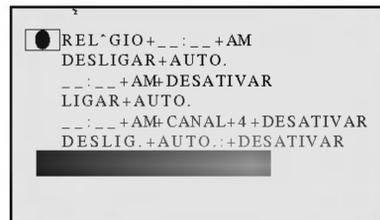
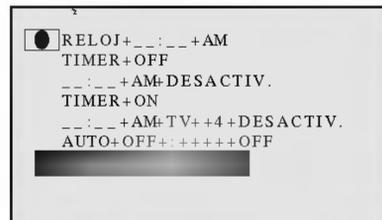
- Notes:**
- This TV is programmed to remember which mode it was last set to, even if you switch the **POWER** off.
  - The caption function operates only in **NORMAL** and **WIDE**.

## ● Setting the current time



<English>

Before setting the ON/OFF Timer, at first you should set the current time.

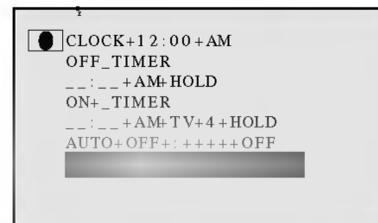


<Spanish>

<Portuguese>

1. Repeatedly press the **MENU** button until the Timer menu appears as shown left.
2. Press the **▲/▼** button to select **CLOCK**.
3. Press the **▶** button then set the hour by using the **▲/▼** button.
4. Press the **▶** button then set the minute by using the **▲/▼** button.
5. Press the **ENTER(■)** button.

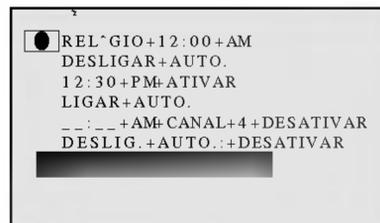
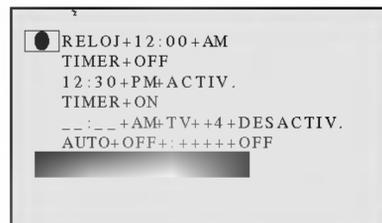
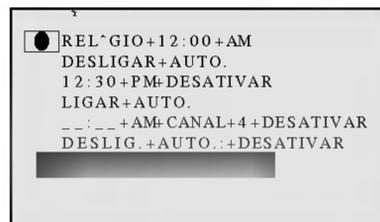
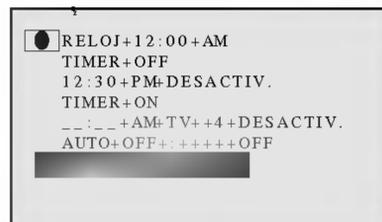
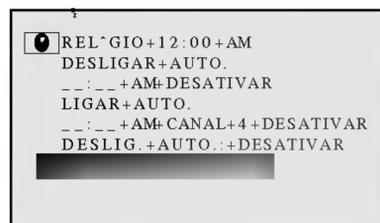
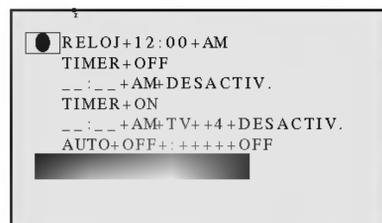
## ● Setting the off timer



<English>

This function is to automatically turn off your TV at a set time.

**Note :** If the same time is set for the on time and off time, only the off time operates.

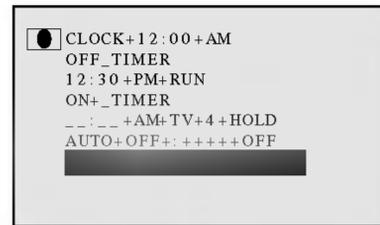


<Spanish>

<Portuguese>

1. Repeatedly press the **MENU** button until the Timer menu appears as shown left.
2. Press the **▲/▼** button to select **OFF-TIMER**.
3. Press the **▶** button then set the hour by using the **▲/▼** button.
4. Press the **▶** button then set the minute by using the **▲/▼** button.
5. Press the **▶** button then select **RUN** or **HOLD**.
6. Press the **ENTER(■)** button.

● **Setting the on timer**

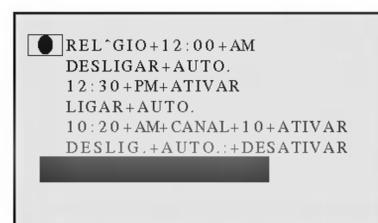
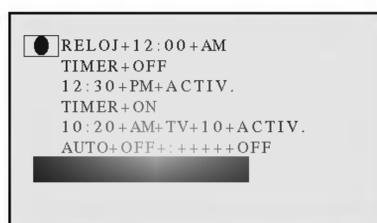
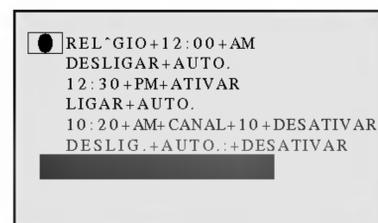
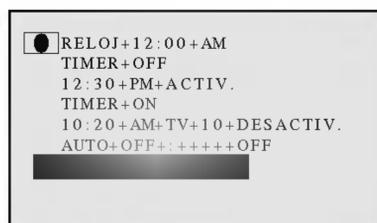
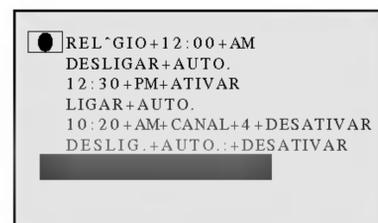
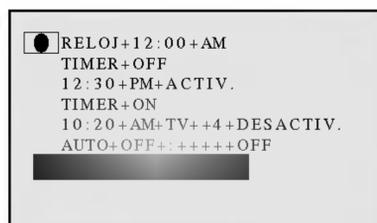
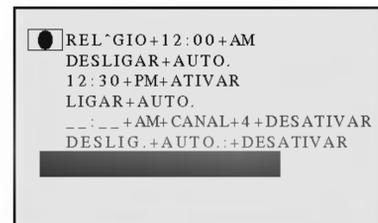
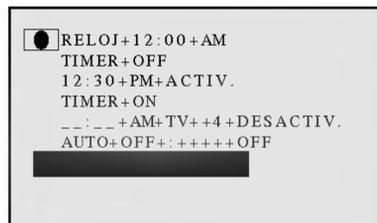


<English>

This function is to automatically turn on your TV at a set time and channel.

1. Repeatedly press the **MENU** button until the Timer menu appears as shown right.
2. Press the **▲/▼** button to select **ON-TIMER**.
3. Press the **▶** button then set the hour by using the **▲/▼** button.
4. Press the **▶** button then set the minute by using the **▲/▼** button.
5. Press the **▶** button then set the desired channel by using the **▲/▼** button.
6. Press the **▶** button then select **RUN** or **HOLD**.
7. Press the **ENTER (■)** button.

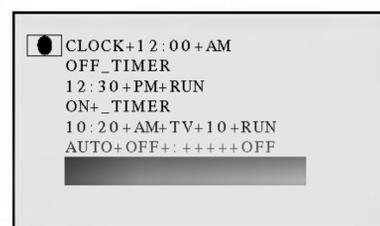
**Note :** Two hours after the TV is switched on by the on time function, it will automatically switched off unless a button has been pressed.



<Spanish>

<Portuguese>

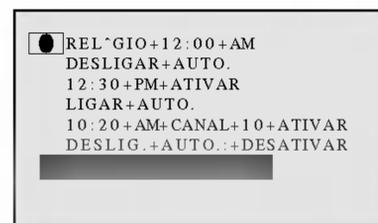
● **Setting the auto off function**



<English>

When a program is over without supplying any input signal the TV is turned off automatically in 10 minutes.

1. Repeatedly press the **MENU** button until the Timer menu appears as shown right.
2. Press the **▲/▼** button to select **AUTO OFF**.
3. Press the **▶** button then select **ON** or **OFF**.
4. Press the **ENTER (■)** button.



<Spanish>

<Portuguese>

## TIMER FUNCTION

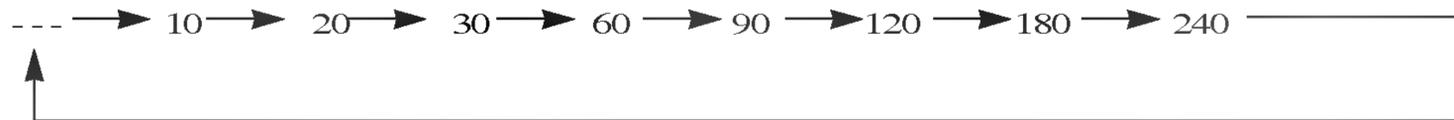
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### ● Setting the sleep timer

This function is to automatically turn off your TV after the time you set.



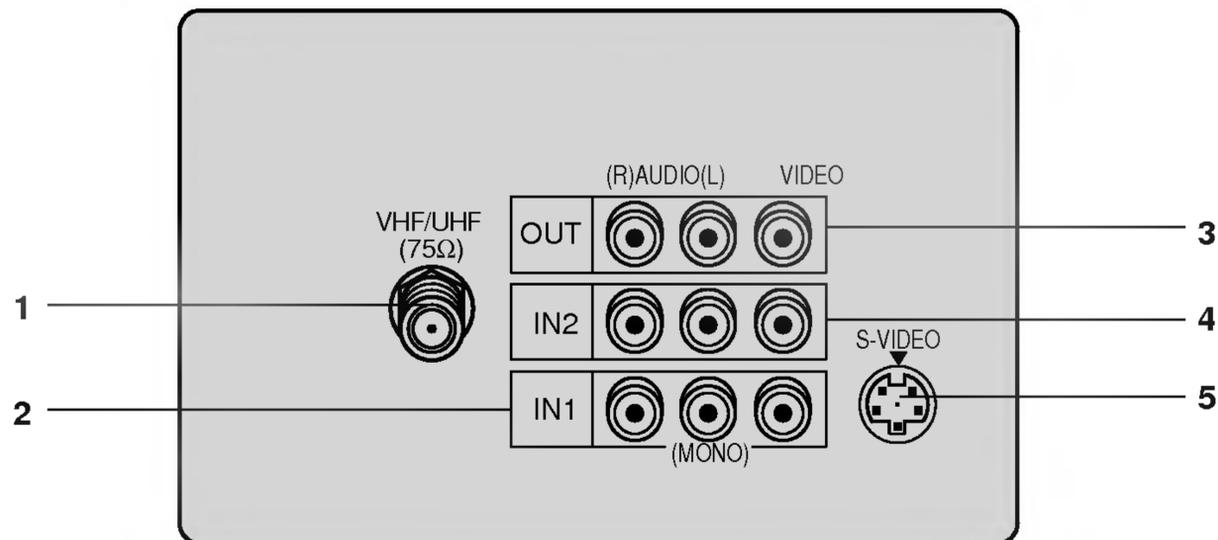
Press the **SLEEP** button to select the desired sleep time. Each time you press this button, the sleep time is displayed one by one on the lower right-hand corner of the screen as shown below.



- Notes:**
- After 3 seconds, the desired sleep time will disappear and be operated automatically.
  - To view the remained sleep time, press the **SLEEP** button once and the remained sleep time will be displayed.
  - To erase the sleep time, press the **SLEEP** button continuously until **SLEEP —** is displayed.

# CONNECTION OF EXTERNAL EQUIPMENTS [Contents](#)

## ● Using the back panel control



### 1. **ANTENNA INPUT JACK**

Connect the VHF/UHF Antenna or CATV cable to this jack.

### 2. **IN 1 JACKS**

Connect external equipment outputs (VCR, LASERDISC, CAMCORDER) to these inputs.

Press the **TV/VIDEO** button until **VIDEO-1** is displayed on the screen.

### 3. **OUT JACKS**

Connect external equipment inputs (VCR, Audio Amplifier) to these outputs for recording or monitoring the selected program.

### 4. **IN 2 JACKS**

Connect external equipment outputs to these inputs.

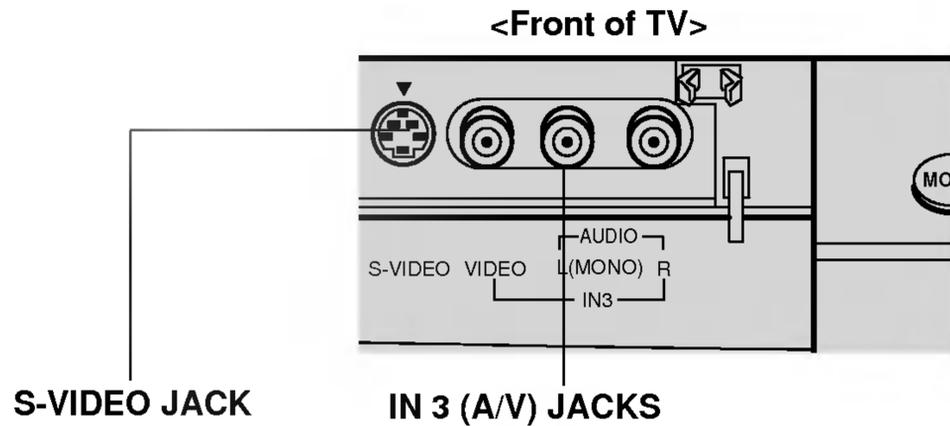
Press the **TV/VIDEO** button until **VIDEO-2** is displayed on the screen.

### 5. **S-VIDEO JACK**

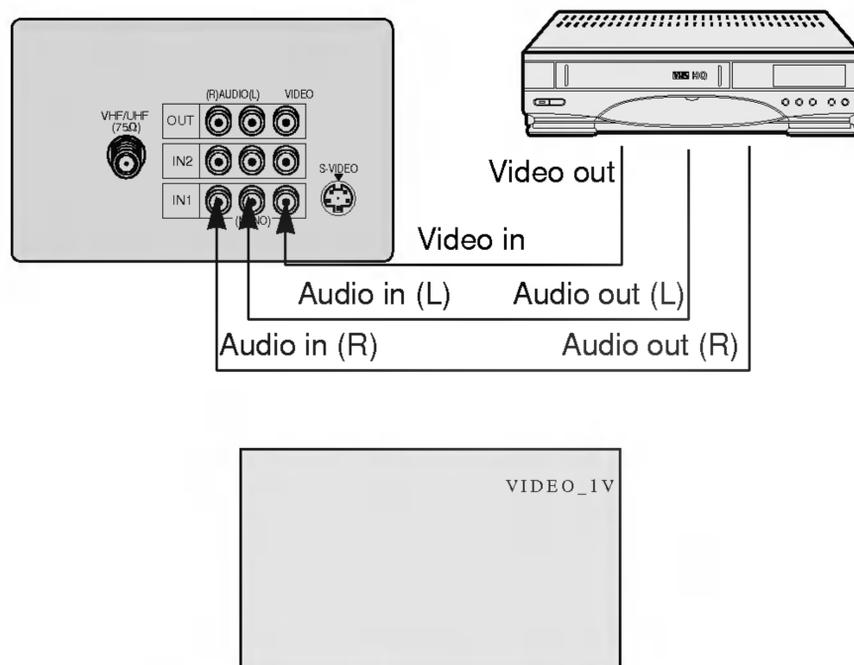
Connect an S-VHS VCR to this jack.

Press the **TV/VIDEO** button until **VIDEO-1** is displayed on the screen.

## CONNECTION OF EXTERNAL EQUIPMENTS



### ● Connecting the standard VCR(Not S-VHS) Via the Input 1 (A/V) jacks

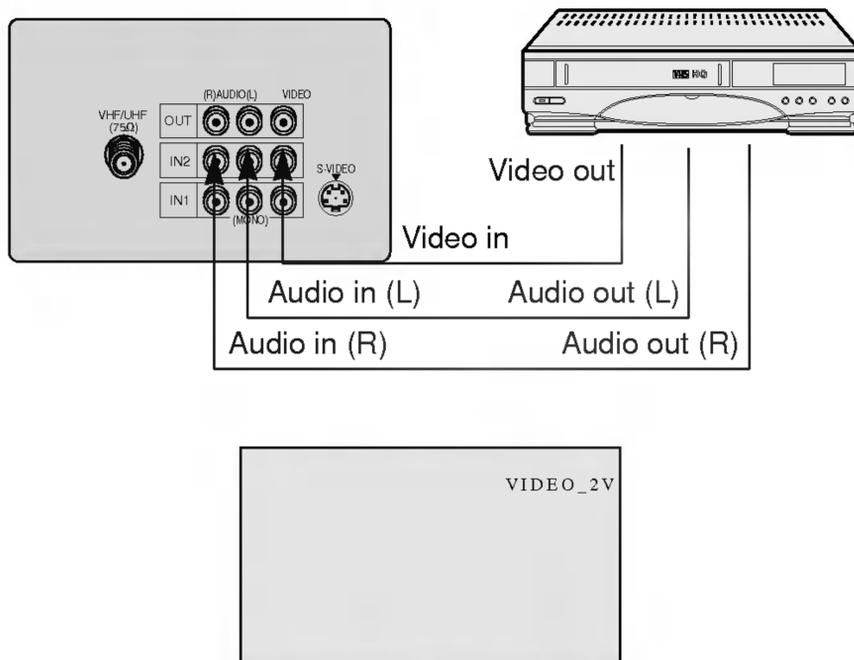


1. Connect the audio/video output jacks of the VCR to **IN 1 (A/V)** jacks on the back of TV as shown left.

2. Press the **TV/VIDEO** button until **VIDEO-1** appears on the screen as shown left.

3. Press the **PLAY** button on the VCR. The video playback is visible on the TV screen.

### Via the INPUT 2 (A/V) jacks



1. Connect the audio/video output jacks of the VCR to **IN 2 (A/V)** jacks on the back of TV as shown left.

2. Press the **TV/VIDEO** button until **VIDEO-2** appears on the screen as shown left.

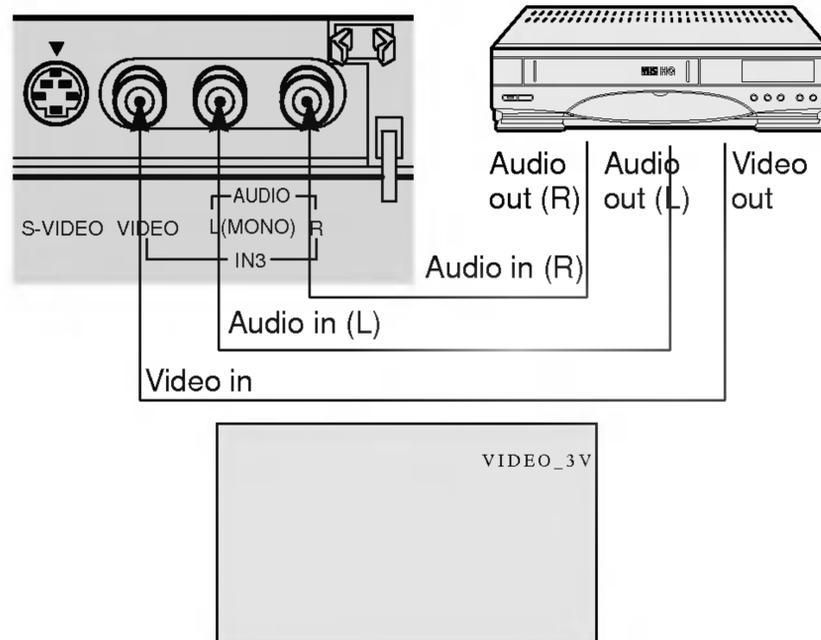
3. Press the **PLAY** button on the VCR.

**Note:** In case of MONO VCR, connect the output jack of VCR to the **AUDIO L(MONO) IN** jack of TV so that the sound can be heard from both speakers. If you connect it to the **AUDIO R IN** jack of TV the sound is heard only from right speaker.

## CONNECTION OF EXTERNAL EQUIPMENTS

### Via the INPUT 3 (A/V) jacks

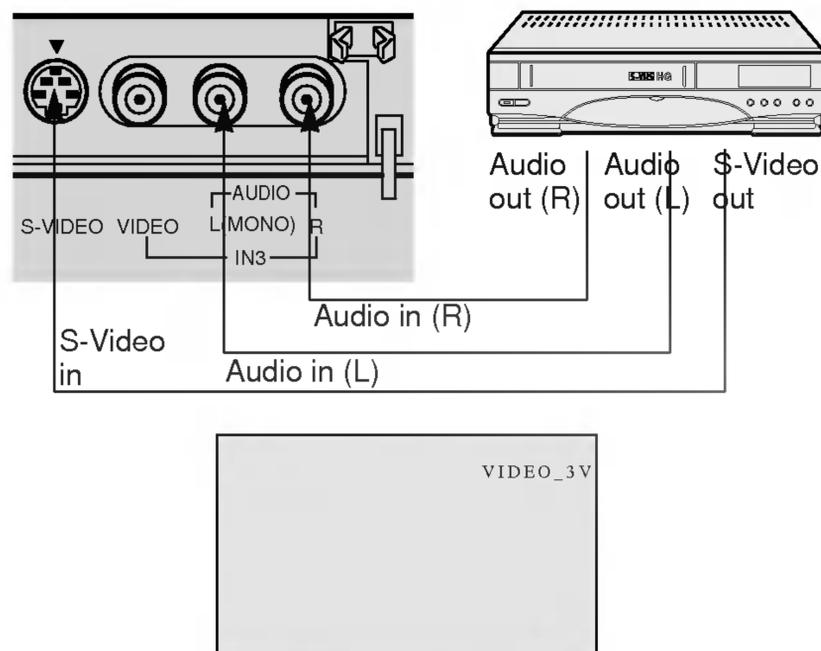
1. Connect the audio/video output jacks of the VCR to the **IN 3 (A/V)** jacks on the front of TV as shown right.
2. Press the **TV/VIDEO** button until **VIDEO-3** appears on the screen as shown right.
3. Press the **PLAY** button on the VCR.



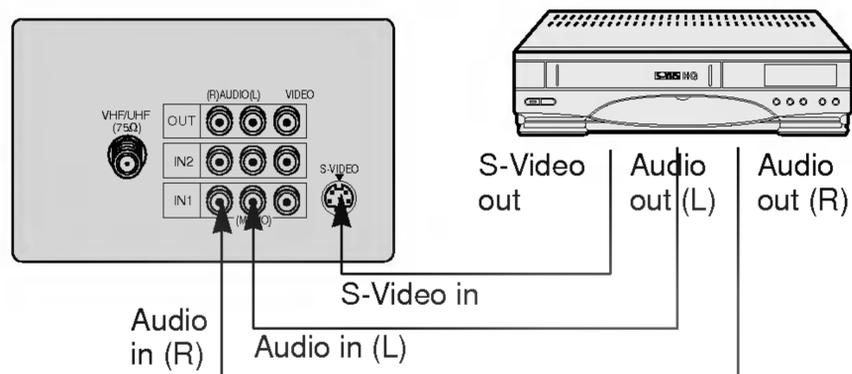
### ● Connecting the S-VHS VCR

When an S-VHS VCR is connected to the **S-VIDEO** jack on the front or back of TV, the picture quality will further be improved.

1. Connect the S-VHS output jack of the VCR to the **S-VIDEO** jack on the front of TV as shown right. Remember to connect the audio cables from the VCR to the **IN 3** audio jacks on the front of TV.
2. Press the **TV/VIDEO** button until **VIDEO-3** appears on the screen as shown right.
3. Press the **PLAY** button on the VCR.

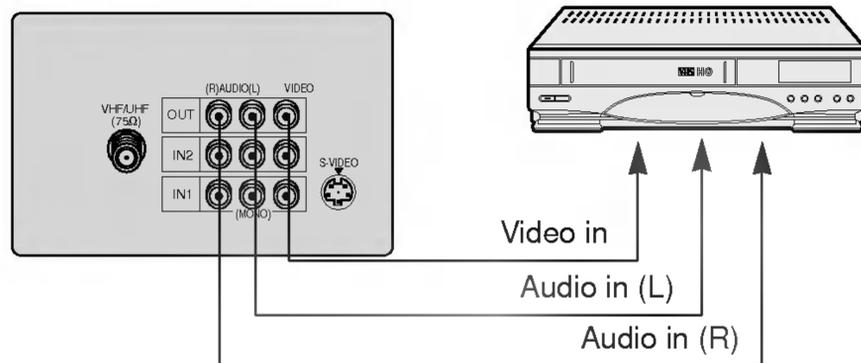


**Note:** If your S-VHS VCR is connected to the **IN 1 (AUDIO)** jacks and **S-VIDEO** jack on the back panel of TV, you should select **VIDEO-1**.



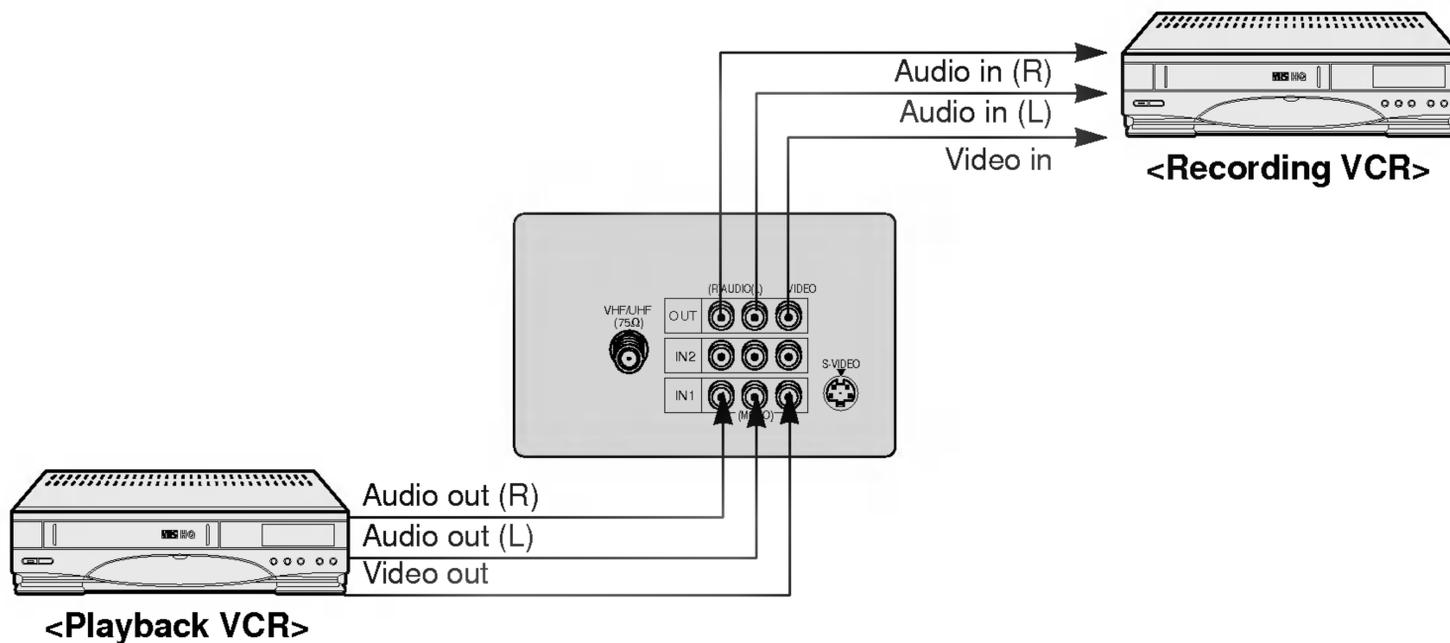
## CONNECTION OF EXTERNAL EQUIPMENTS

### ● Recording Onto VCR



1. Connect the audio/video input jacks of the recording VCR to the **OUT (A/V)** jacks on the back of TV as shown left.
2. Select the program number on the TV.
3. Set the recording VCR to record.

### ● Recording a program from connected other equipment



1. Connect the output jacks of the playback VCR to the **IN 1 (A/V)** jacks on the back of TV (or **IN 2 (A/V)** jacks on the back of TV or **IN (A/V)** jacks on the front of TV) as shown above.
2. Connect the input jacks of the recording VCR to the **OUT (A/V)** jacks on the back of TV.
3. Press the **TV/VIDEO** button until **VIDEO-1** appears on the screen.  
If you connect it to the **IN 2 (A/V)** jacks on the back of TV, you should select **VIDEO-2**, to the **INPUT3 (A/V)** jacks on the front of TV, you should select **VIDEO-3**.
4. Press the **PLAY** button on the playback VCR and set the recording VCR to record.

# TROUBLESHOOTING

Before calling for service, please check the trouble-shooting chart below. It includes several common faults which you may correct, making a service call unnecessary.

<b>Trouble</b>	<b>Check Points</b>
No power	<ul style="list-style-type: none"><li>● Make sure the power cord is plugged in.</li><li>● Make sure the television is turned on.</li></ul>
No picture or sound	<ul style="list-style-type: none"><li>● Try another channel.</li><li>● Check the setting of TV or CAIV.</li></ul>
Sound is OK; picture is poor	<ul style="list-style-type: none"><li>● Try another channel (station trouble).</li><li>● Check antenna connections.</li><li>● Adjust the picture controls.</li></ul>
Poor reception	<ul style="list-style-type: none"><li>● Adjust the antenna.</li><li>● Check antenna connections.</li><li>● May be local interference.</li></ul>
Lines in picture	<ul style="list-style-type: none"><li>● Try another channel (station trouble).</li><li>● Adjust the antenna.</li><li>● Adjust the picture controls.</li><li>● Check antenna connections.</li><li>● May be local interference.</li></ul>
Ghosts (multiple images)	<ul style="list-style-type: none"><li>● Try another channel (station trouble).</li><li>● Adjust the antenna.</li><li>● Adjust the picture controls.</li><li>● Check antenna connections.</li><li>● May be local interference.</li></ul>
Remote control doesn't work.	<ul style="list-style-type: none"><li>● Check batteries in the remote control.</li></ul>
Cannot tune desired channel.	<ul style="list-style-type: none"><li>● Try another channel (station trouble).</li><li>● Check the setting of TV or CAIV.</li><li>● Channel may not be in channel memory.</li><li>● Store it using auto or manual programming.</li></ul>

