



DLP Projection TV

OWNER'S MANUAL

MODELS: 44SZ8R
44SZ8R-LD
52SX4R
52SX4R-LC
62SX4R
62SX4R-LC

Please read this manual carefully and completely before operating your TV.

Retain this manual for future reference.

Record model number and serial number of the TV in the spaces provided below.

See the label attached on the back cover and relate this information to your dealer if you require service.

Model Number :

Serial Number :

Safety Instructions

WARNING : TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

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

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 builtin 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.

Wet Location Marking :

Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

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.

Contents

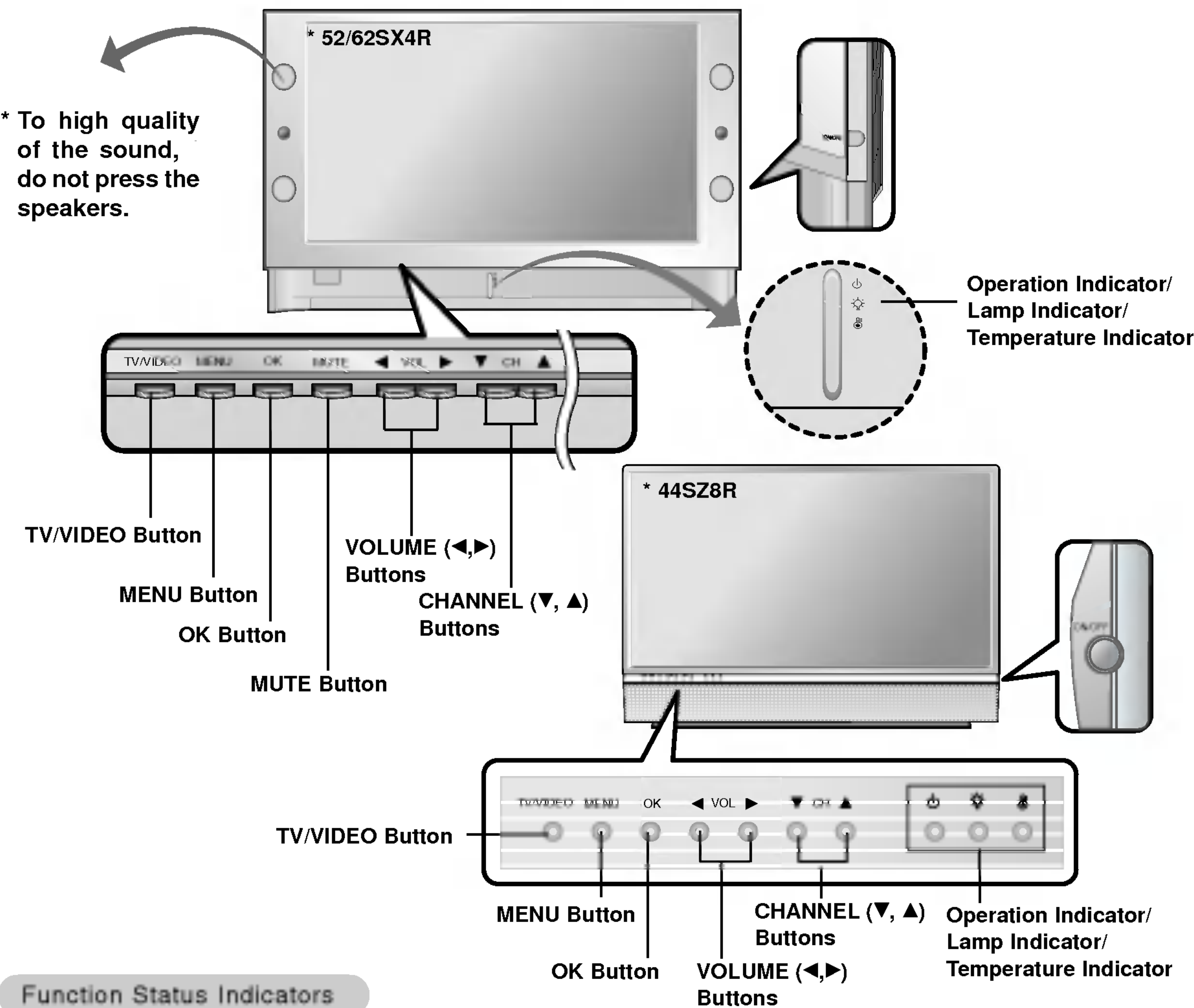
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Introduction

Controls

- This is a simplified representation of a front panel.
- Here shown may be somewhat different from your TV.

Front Panel Controls



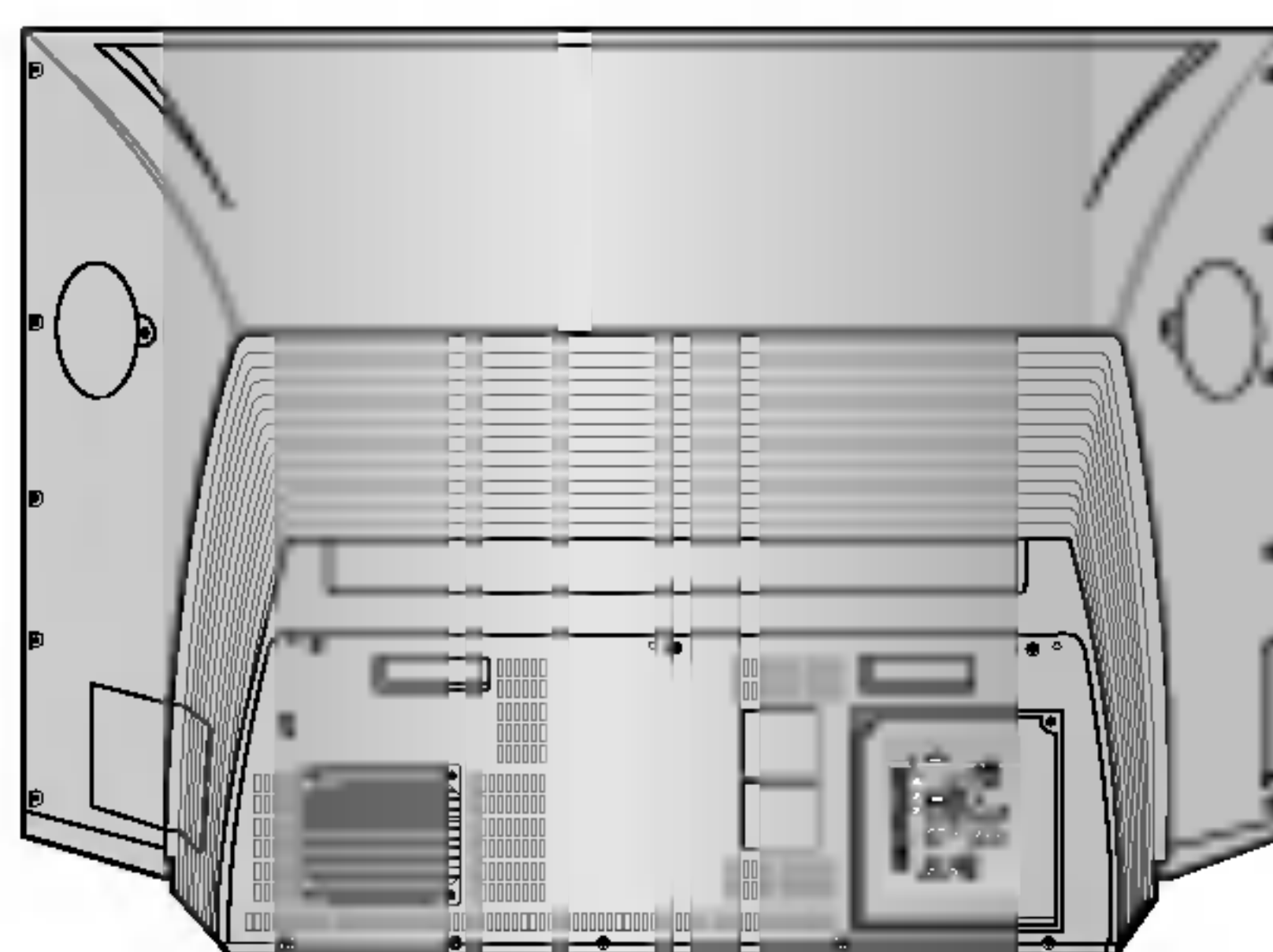
Function Status Indicators

- Lamp indicator, operation indicator, and temperature indicator located below the front panel controls, reveal the operating status of the DLP projection TV.

Operation Indicator	Off	Power Cord is not connected.
	Red	Power Cord is connected, TV is in standby mode.
	Green	TV turns on.
	Orange (blinking) (Only 44SZ8R)	Preparing operation in standby mode.
	White (Loading) (Only 52/62SX4R)	Preparing operation in standby mode.
Lamp Indicator	Orange	Projection lamp is reaching the end of its life and needs to be replaced with a new lamp. Contact your service center.
	Red (blinking)	There is a problem with the lamp or around it. Contact an authorized service center.
	Green (blinking)	The lamp cover is not closed.
Temperature Indicator	Orange	The projection TV is overheating. Check the blocked vents of the Projection TV .
	Red	The projection TV shuts down due to overheating.

Connection Options

Back Connection Panel



- AUDIO Input**
Connections are available for listening stereo sound from an external device.
- VIDEO Input**
Connects the video signal from a video device.
- S-VIDEO Input**
A connection is available to provide better picture quality than the video input.

VIDEO/AUDIO IN/OUT SOCKETS

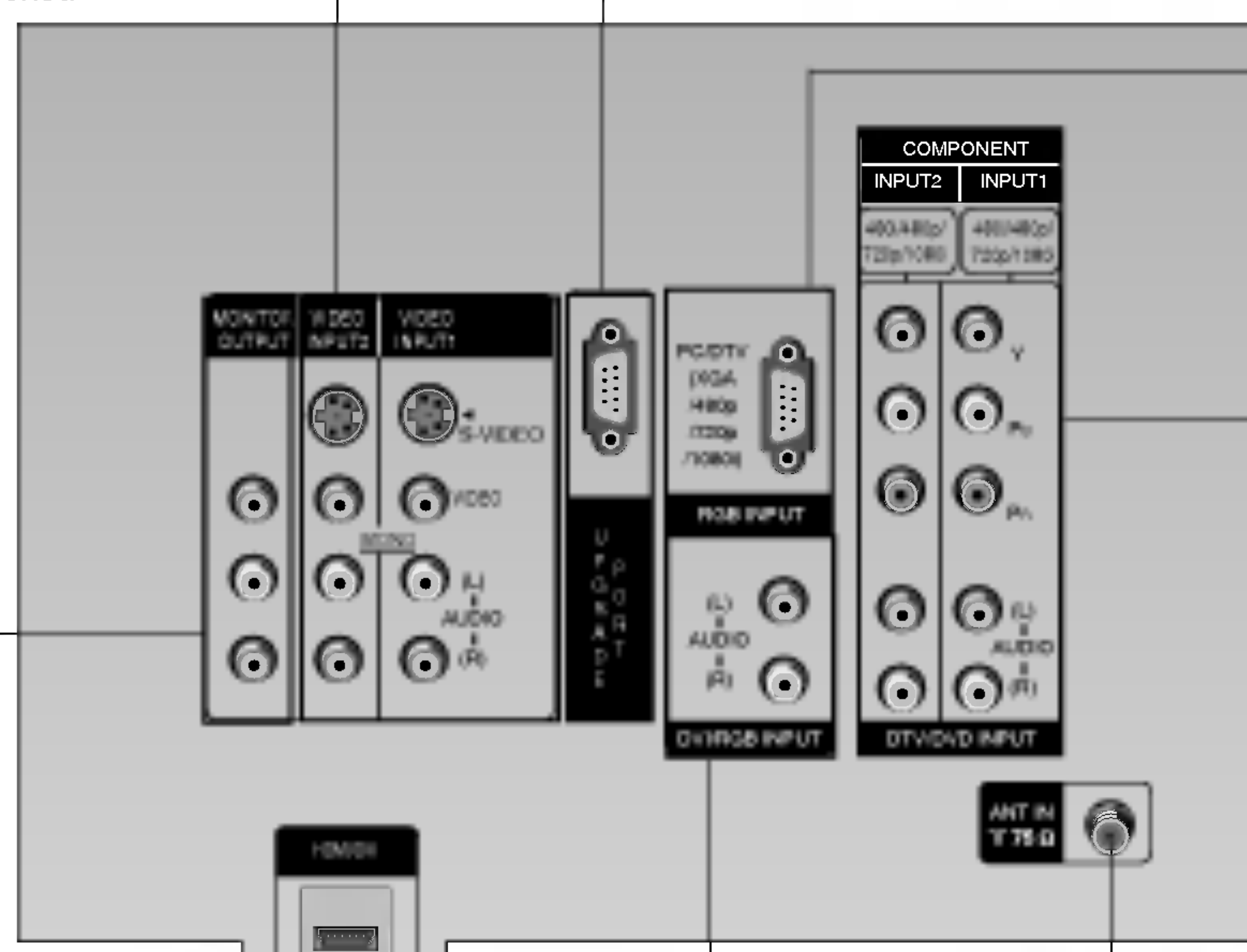
Connect the video/audio out sockets of external equipment to these sockets.

S-VIDEO/AUDIO IN SOCKETS

Connect the S-VIDEO out socket of an VCR to the **S-VIDEO** socket.

UPGRADE PORT

This port is used to upgrade the software version and debug without changing the hardware. Be careful not to use this port. Just contact your dealer or service centre.



RGB Input

Connect the TV output connector from a PC/DTV to the appropriate input port.

COMPONENT INPUT 1-2
Connect a component video/audio device to these jacks. Refer to your DVD manual for further information.

MONITOR OUT

Connect a second TV or Monitor.

HDMI/DVI

Connect a HDMI signal to HDMI/DVI.

RGB/DVI INPUT

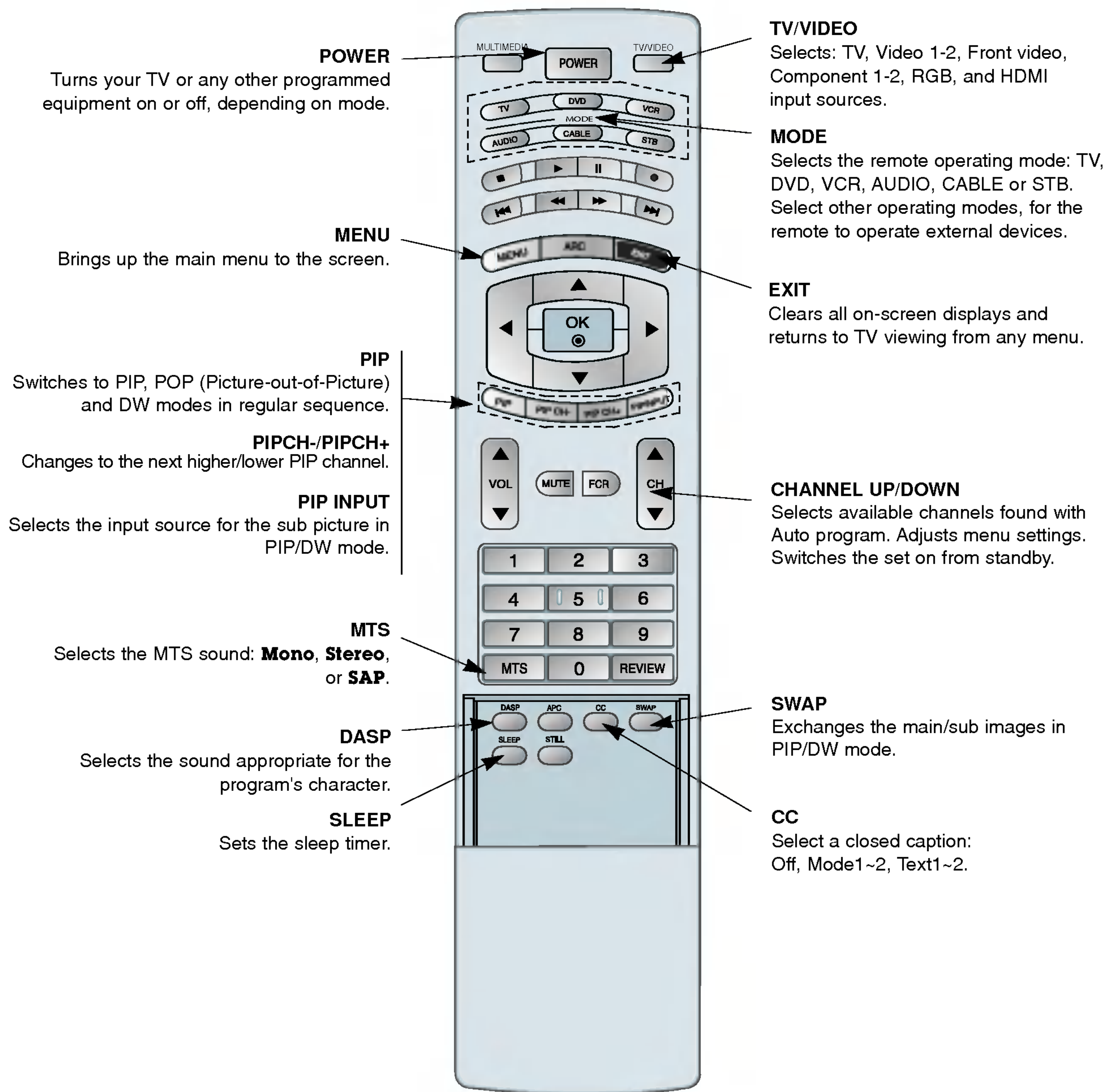
Connect the monitor output connector from a PC to the appropriate input port.

ANT IN

Used to connect analog cable or antenna signals to the television, either directly or through your cable box.

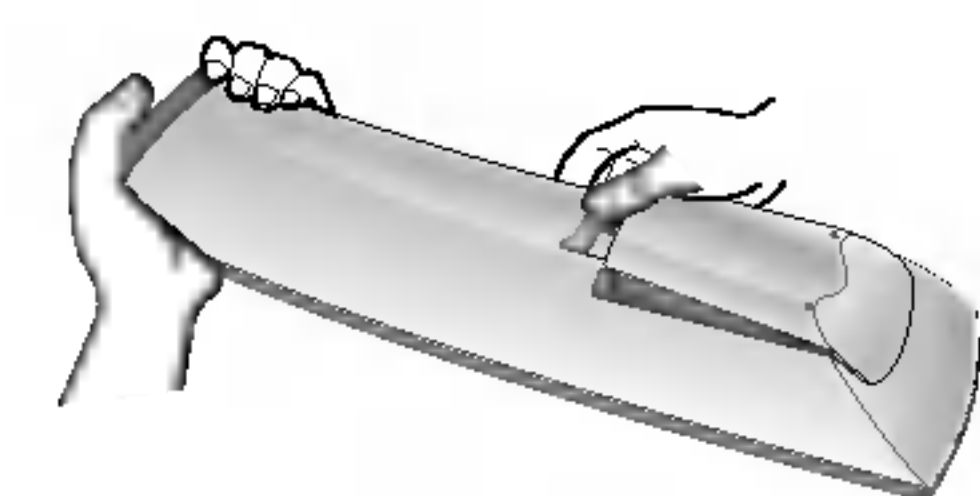
Remote Control Key Functions

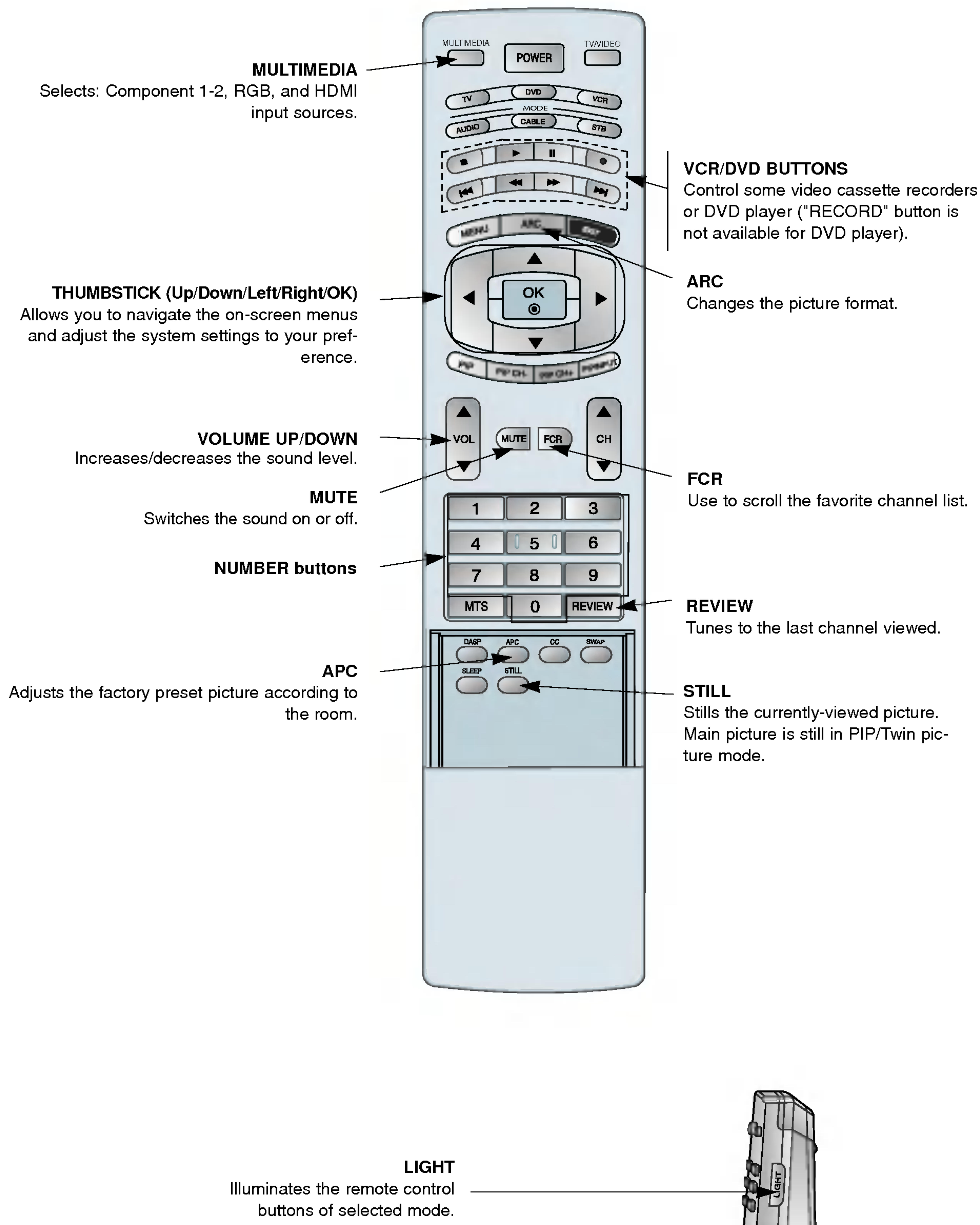
- When using the remote control, aim it at the remote control sensor on the TV.



Installing Batteries

- Open the battery compartment cover on the back side and install the batteries matching correct polarity (+ to +, - to -).
- Install two 1.5V AA batteries. Don't mix old or used batteries with new ones. Replace cover.







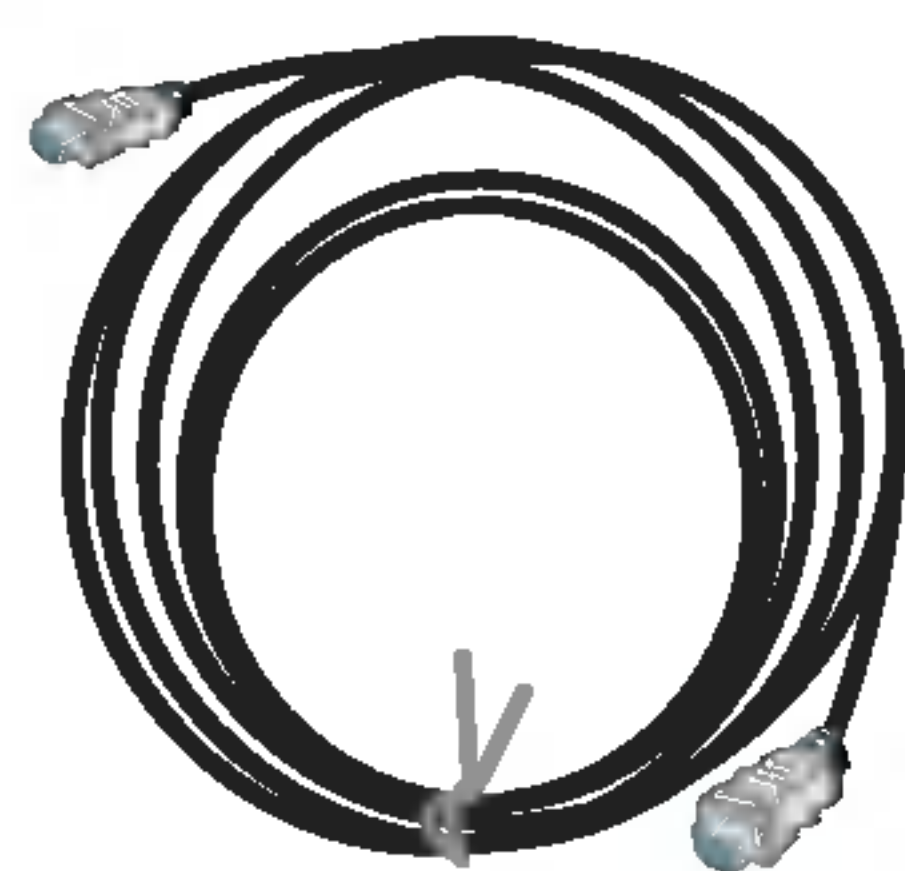
- HDMI™, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing.
- This set can receive the High-Definition Multimedia Interface (HDMI) or Input of Digital Visual Interface(DVI).
- This set supports HDCP (High-bandwidth Digital Contents Protection) Protocol for the set (480p, 720p, 1080i) modes.
- When you Connect with HDMI/DVI Source Devices (DVD Player or Set Top Box or PC) supporting Auto HDMI/DVI function, automatically, support Plug & Play and then set the HDMI/DVI Source Devices (640 x 480p). After reading in HDMI/DVI Source Devices using Display Data Channel(DDC) Protocol, EDID stored in the set is used. If HDMI/DVI Source Devices not supported Auto HDMI/DVI is been, the Resolution is set, manually.
- To get the best picture quality, adjust the DVD Player or Set Top Box output resolution to 640 x 480p.
- To get the best picture quality, adjust the PC graphics card to 640 x 480, 60Hz.
- When Source Devices have DVI Output Connector, you must connect audio with separated cable.(Refer to <How to connect>)

How to connect

1. When Source Devices (DVD Player or Set Top Box) support HDMI.
 - If Source Devices have HDMI Output Connector, Source Devices connect to the set with HDMI Cable .(not supplied with the product).
 - If Source Devices support Auto HDMI, automatically, Source Devices divert output resolution in 640x480p. But if not, resolution divert Manually Setting for reference Manual of Source Devices.
 - To get the best picture quality, adjust the DVD Player or Set Top Box output resolution to 640x480p.
 - Because HDMI sends Digital Video and Audio with one cable, need not especial Audio Cable for using HDMI Cable.
2. When Source Devices (DVD Player or Set Top Box) supports DVI.
 - If Source Devices have DVI Output Connector, Source Devices connect to the set with HDMI to DVI Cable (not supplied with the product).
 - If Source Devices support Auto DVI, automatically, Source Devices divert output resolution in 640x480p. But if not, resolution divert Manually Setting for reference Manual of Source Devices.
 - To get the best picture quality, adjust the DVD Player or Set Top Box output resolution to 640x480p.
 - In this case, Audio use other cable. When Source Devices have Analog Audio Output Connector, RGB/DVI Audio Input of the set connect to Audio Cable (not supplied with the product). And then you can listen to normal Audio.
3. When PC supports DVI.
 - If PC have DVI Output Connector, Source Devices connect to the set with HDMI to DVI Cable (not supplied with the product).
 - To get the best picture quality, adjust the PC graphics card to 640x480, 60Hz.
 - Use the the set's HDMI/DVI (VIDEO) for video connections, depending on your PC connector.
 - If the graphics card on the PC does not output analog RGB and DVI simultaneously, connect only one of either RGB Input or HDMI Input to display the PC on the set.
 - If he graphics card on the PC does output analog RGB and DVI simultaneously, the set to either RGB Input or HDMI Input; (the other mode is set to Plug and Play automatically by the set.)
 - Then, make the corresponding audio connections. If using a sound card, adjust the PC sound as required.
 - In this case, Audio use other cable. When PC (or sound card of PC) have Analog Audio Output Connector, RGB/DVI Audio Input of the set connect to Analog Audio Cable (not supplied with the product). And then you can listen to normal Audio.

Reference

Cable sample



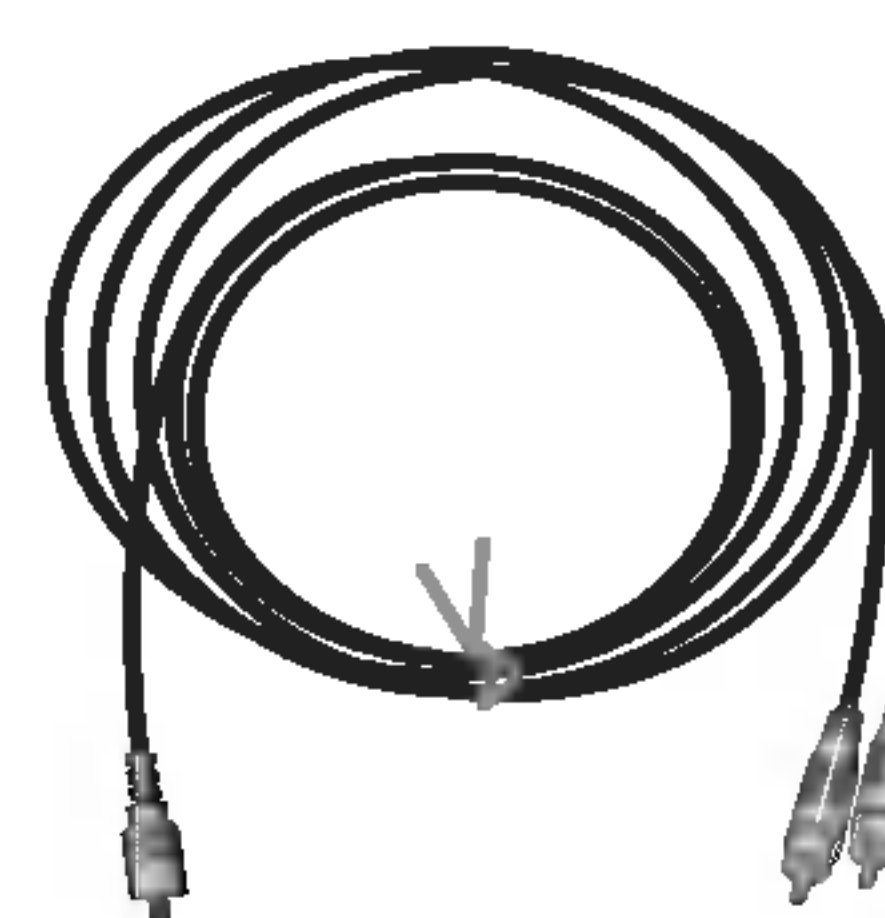
HDMI Cable
(not supplied with the product)



Analog Audio Cable (RCA type)
(not supplied with the product)



HDMI to DVI Cable
(not supplied with the product)



Analog Audio Cable (Stereo to RCA type)
(not supplied with the product)

How to use

1. Connect the HDMI Source Devices(DVD Player or Set Top Box or PC) and the set.
2. Turn on the display by pressing the POWER button on the set and HDMI Source Devices remote control.
3. Select HDMI Input source in Main Input option of PIP/DW menu.
4. Check the image on your set. There may be noise associated with the resolution, vertical pattern, contrast or brightness in HDMI Source Devices. If noise is present, change the HDMI Source Devices to another resolution, change the refresh rate or adjust the brightness and contrast on the menu until the picture is clear. If the refresh rate of the PC graphics card can not be changed, change the PC graphics card or consult the manufacturer of the PC graphics card.

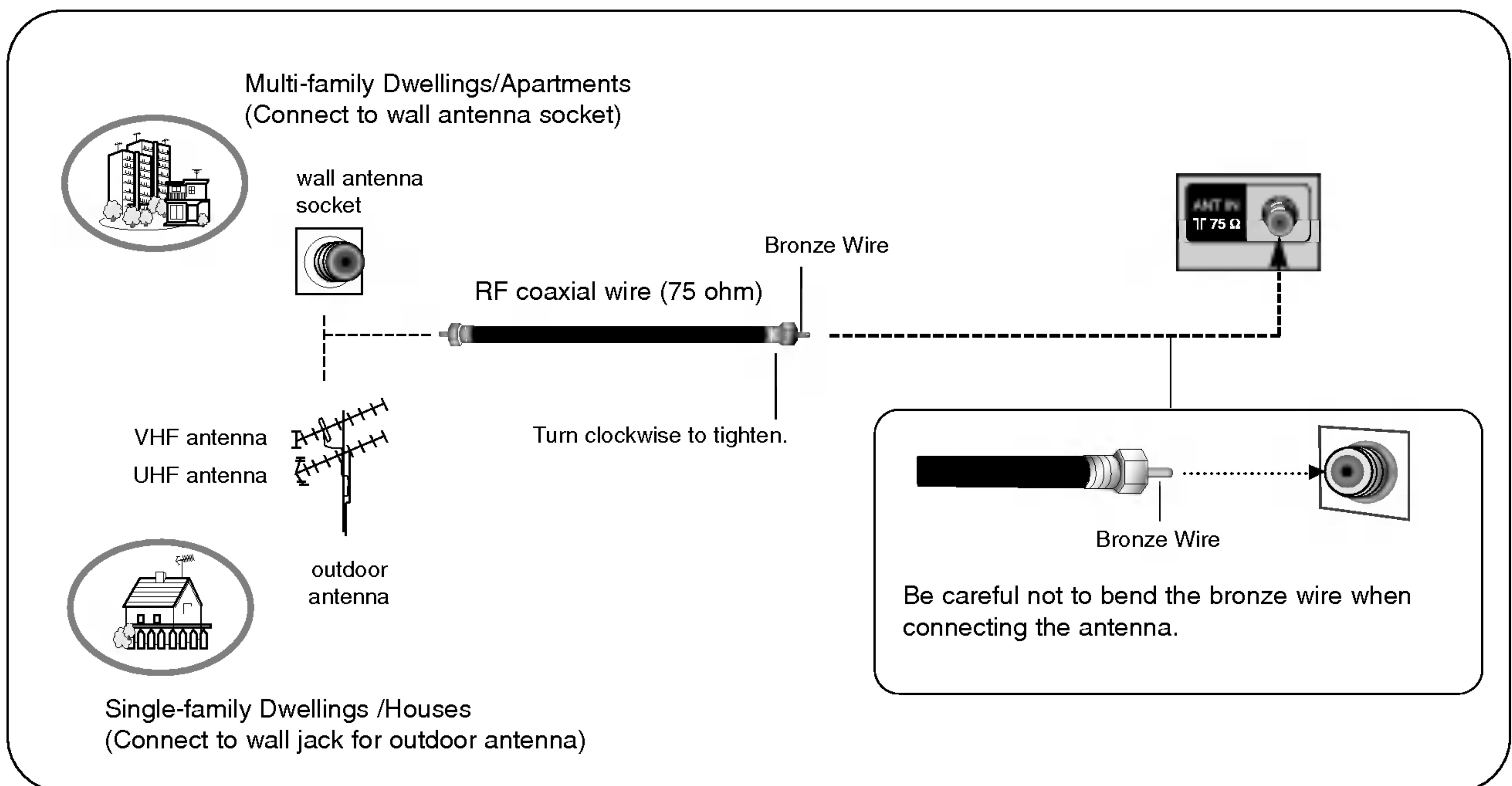
Notes:

- Depending on the graphics card, DOS mode may not work if you use a HDMI to DVI Cable.
- Avoid keeping a fixed image on the set screen for a long period of time. The fixed image may become permanently imprinted on the screen. Use the Orbiter screen saver when possible.
- When Source Devices connected HDMI Input, output PC Resolution, Position, Size may not fit to Screen. As shown in the lower picture, press the **MENU** button to adjust the screen Position of the set and contact a PC graphics card service center.
- In case HDMI Source Devices is not connected Cable or poor cable connection, "No Signal" OSD display in HDMI Input. And In case of Video Resolution not supported the set output in HDMI Source Devices, "No Signal" OSD display. Refer to the Manual of HDMI Source Devices or contact your service center.

External Equipment Connections

Antenna Connection

- Antenna or Cable Service without a Cable Box Connections.
- For optimum picture quality, adjust antenna direction if needed.



- To improve the picture quality in a poor signal area, please purchase a signal amplifier and install properly.
- If the antenna needs to be split for two TV's, install a "2-Way Signal Splitter" in the connections.
- If the antenna is not installed properly, contact your dealer for assistance.

NOTE: All cables shown are not included with the TV.

VCR Setup

- To avoid picture noise (interference), leave an adequate distance between the VCR and TV.
- Typically a frozen still picture from a VCR. If the 4:3 picture format is used; the fixed images on the sides of the screen may remain visible on the screen.

Connection Option 1

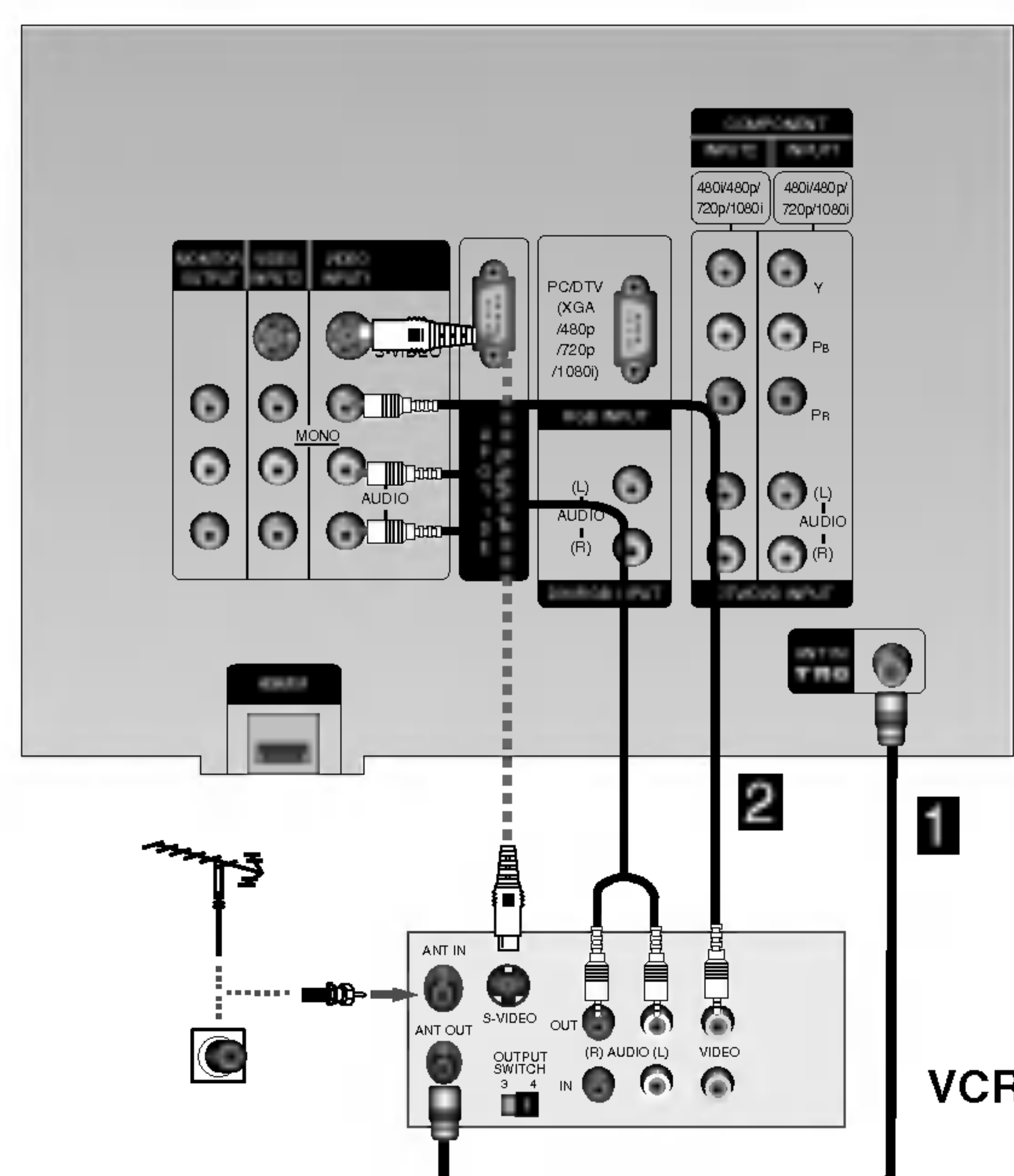
Set VCR output switch to 3 or 4 and then tune TV to the same channel number.

Connection Option 2

1. Connect the audio and video cables from the VCR's output jacks to the TV input jacks, as shown in the figure.
When connecting the TV to VCR, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).
If you connect an S-VIDEO output from VCR to the S-VIDEO input, the picture quality is improved; compared to connecting a regular VCR to the Video input.
2. Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
3. Select the input source with using the **TV/VIDEO** button on the remote control. (If connected to A/V INPUT 2, select **Video 2** input source.)



Do not connect to both Video and S-Video at the same time. In the event that you connect both Video and the S-Video cables, only the S-Video will work.



Cable TV Setup

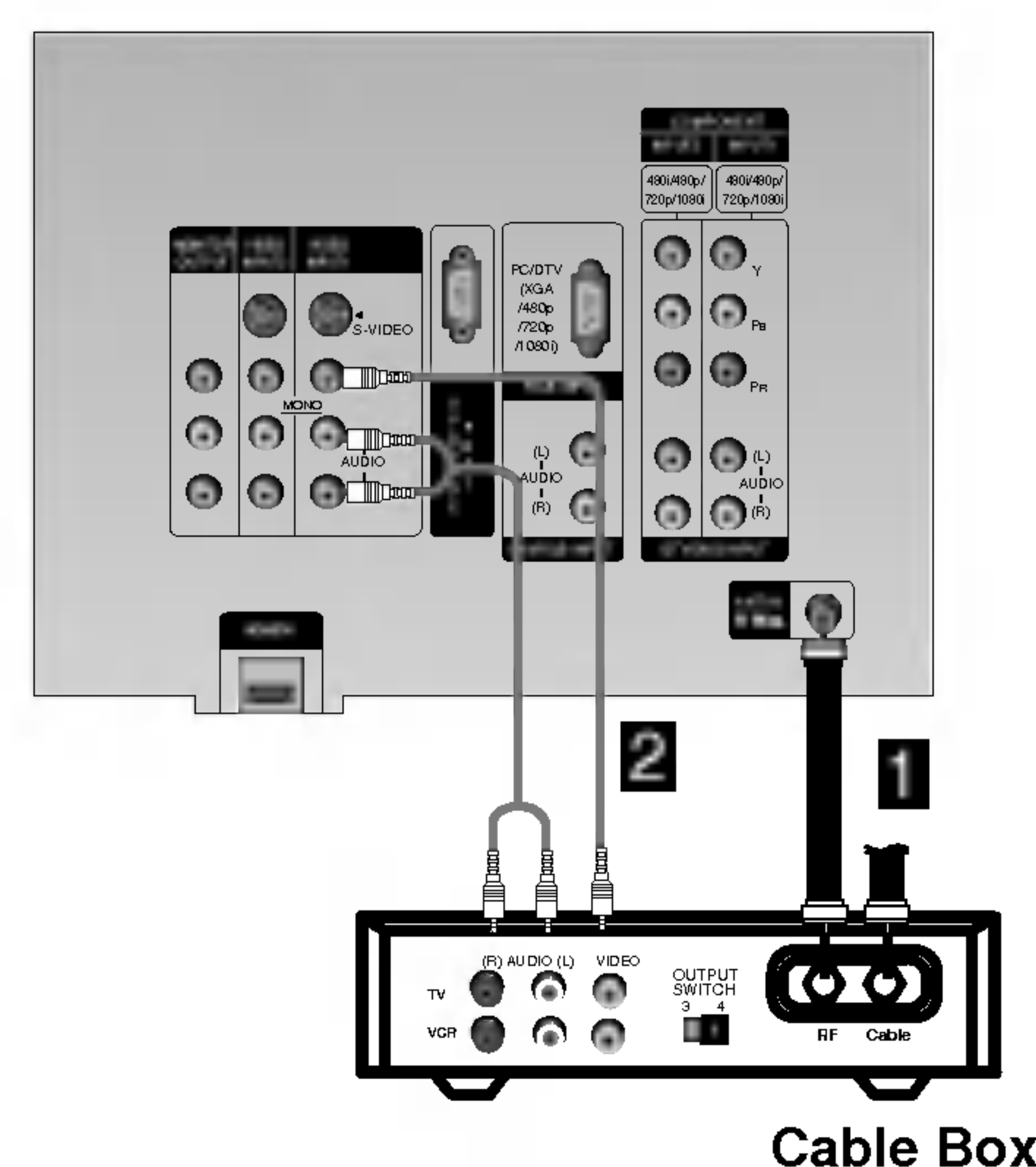
- After subscribing to a cable TV service from a local provider and installing a converter, you can watch cable TV programming. The TV cannot display TV programming unless a TV tuner device or cable TV converter box is connected to the TV.
- For further information regarding cable TV service, contact your local cable TV service provider(s).

Connection Option 1

1. Select 3 or 4 with channel switch on cable box.
2. Tune the TV channel to the same selected output channel on cable box.
3. Select channels at the cable box or with the cable box remote control.

Connection Option 2

1. Connect the audio and video cables from the Cable Box's output jacks to the TV input jacks, as shown in the figure.
When connecting the TV to a Cable Box, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).
2. Select the input source with using the **TV/VIDEO** button on the remote control. (If connected to A/V INPUT 2, select **Video 2** input source.)
3. Select your desired channel with the remote control for cable box.



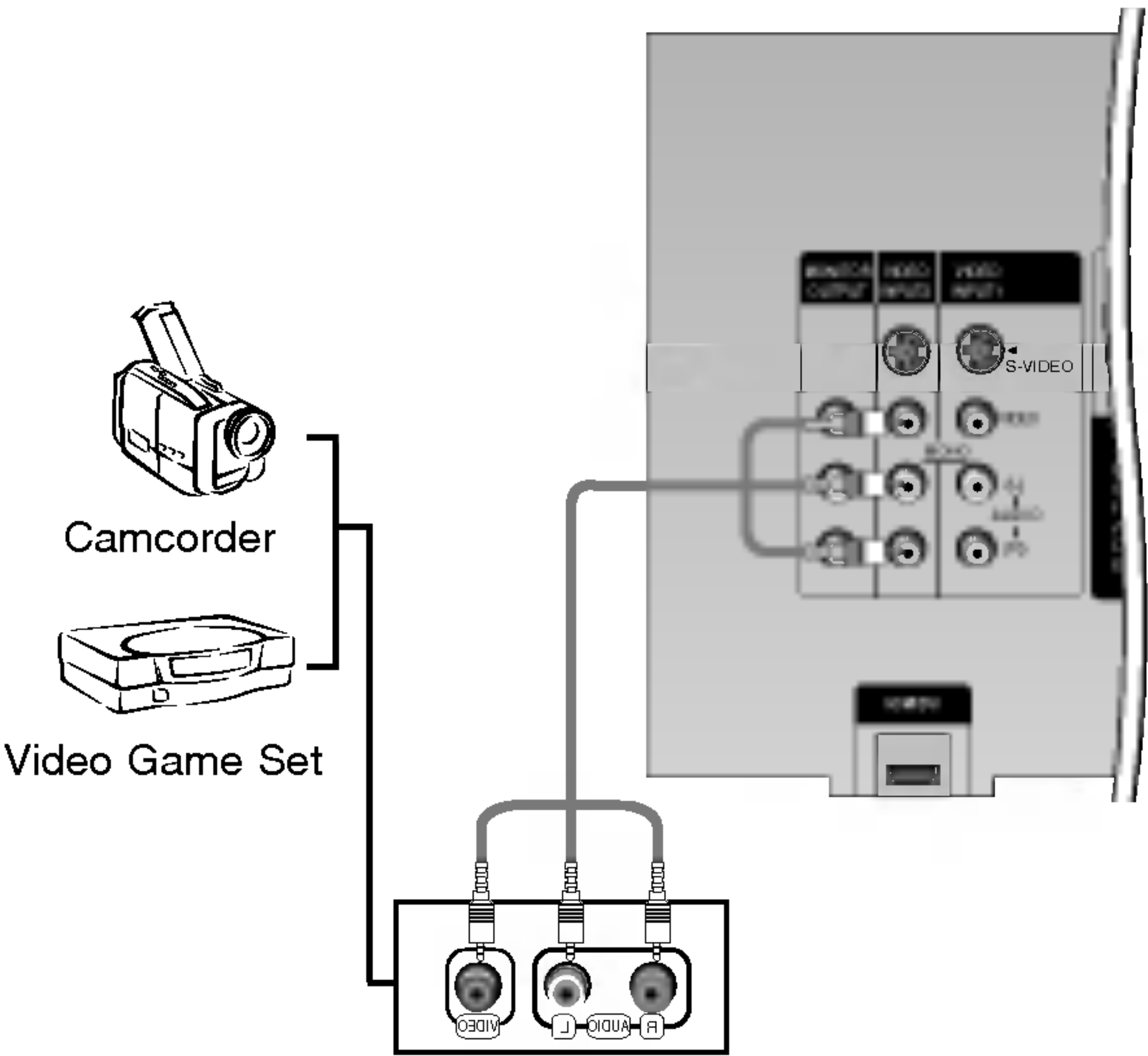
External A/V Source Setup

How to connect

Connect the audio and video cables from the external equipment's output jacks to the TV input jacks, as shown in the figure.
When connecting the TV to external equipment, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).

How to use

1. Select the input source with using the **TV/VIDEO** button on the remote control. (If connected to A/V INPUT 2, select **Video 2** input source).
2. Operate the corresponding external equipment. Refer to external equipment operating guide.



DVD Setup

How to connect

1. Connect the DVD video outputs (Y, P_B, P_R) to the COMPONENT (Y, P_B, P_R) INPUT or HDMI INPUT jacks on the TV and connect the DVD audio outputs to the AUDIO INPUT jacks on the TV, as shown in the figure.
2. If your DVD only has an S-Video output jack, connect this to the S-VIDEO input on the TV and connect the DVD audio outputs to the AUDIO INPUT jacks on the TV, as shown in the figure.

NOTE: If your DVD player does not have component video output, use S-Video.

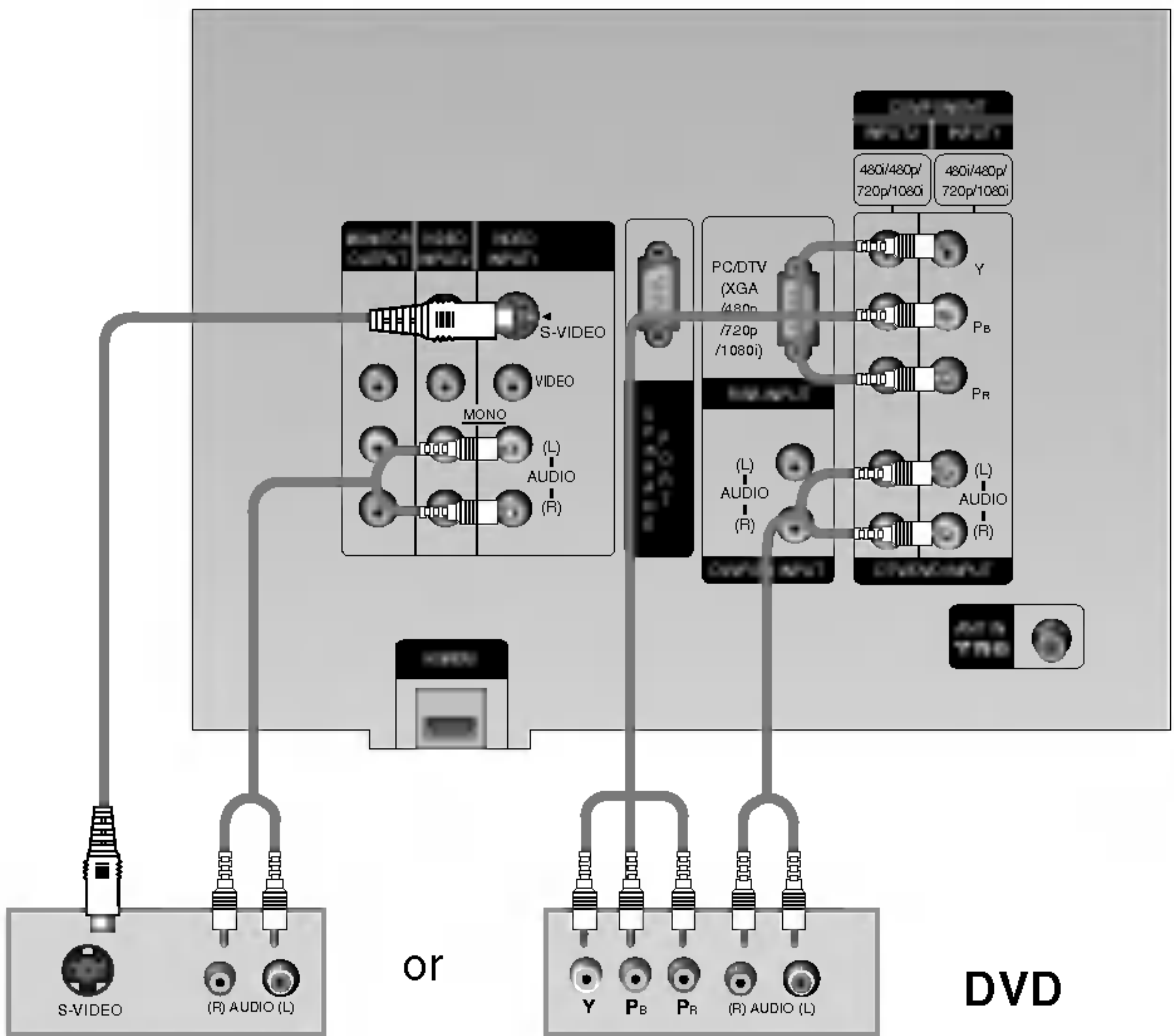
How to use

1. Turn on the DVD player, insert a DVD.
2. Use the **TV/VIDEO** or **MULTIMEDIA** button on the remote control to select **Component 1** or **Component 2**. (If connected to S-VIDEO, select the **Video 1** or **Video 2** external input source.)
3. Refer to the DVD player's manual for operating instructions.

• Component Input ports

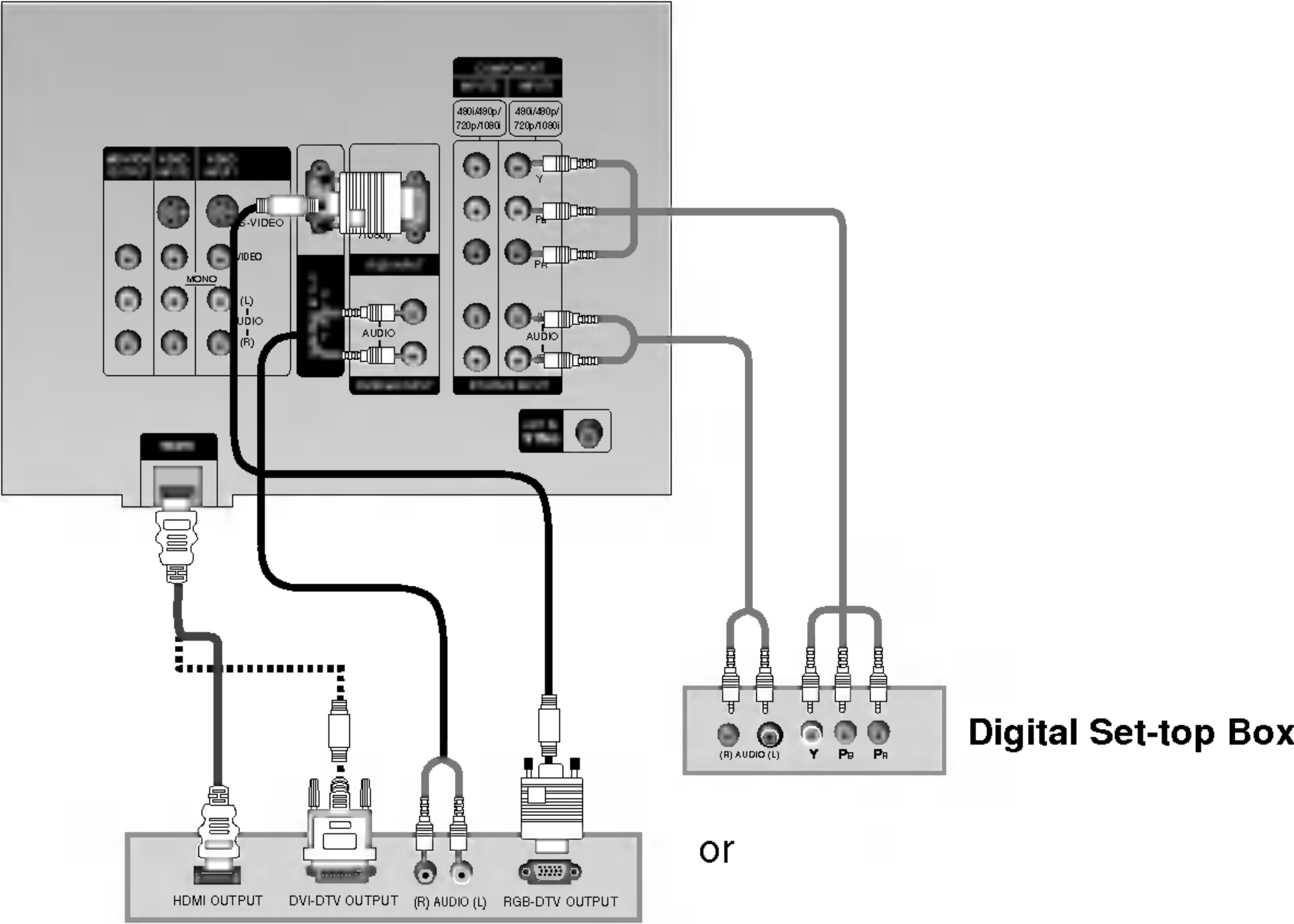
To get better picture quality, connect a DVD player to the component input ports as shown below.

Component ports on the TV	Y	P _B	P _R
Video output ports on DVD player	Y	P _B	P _R
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	P _B	P _R



DTV Setup

- To watch digitally broadcast programs, purchase and connect a digital set-top box.



How to connect

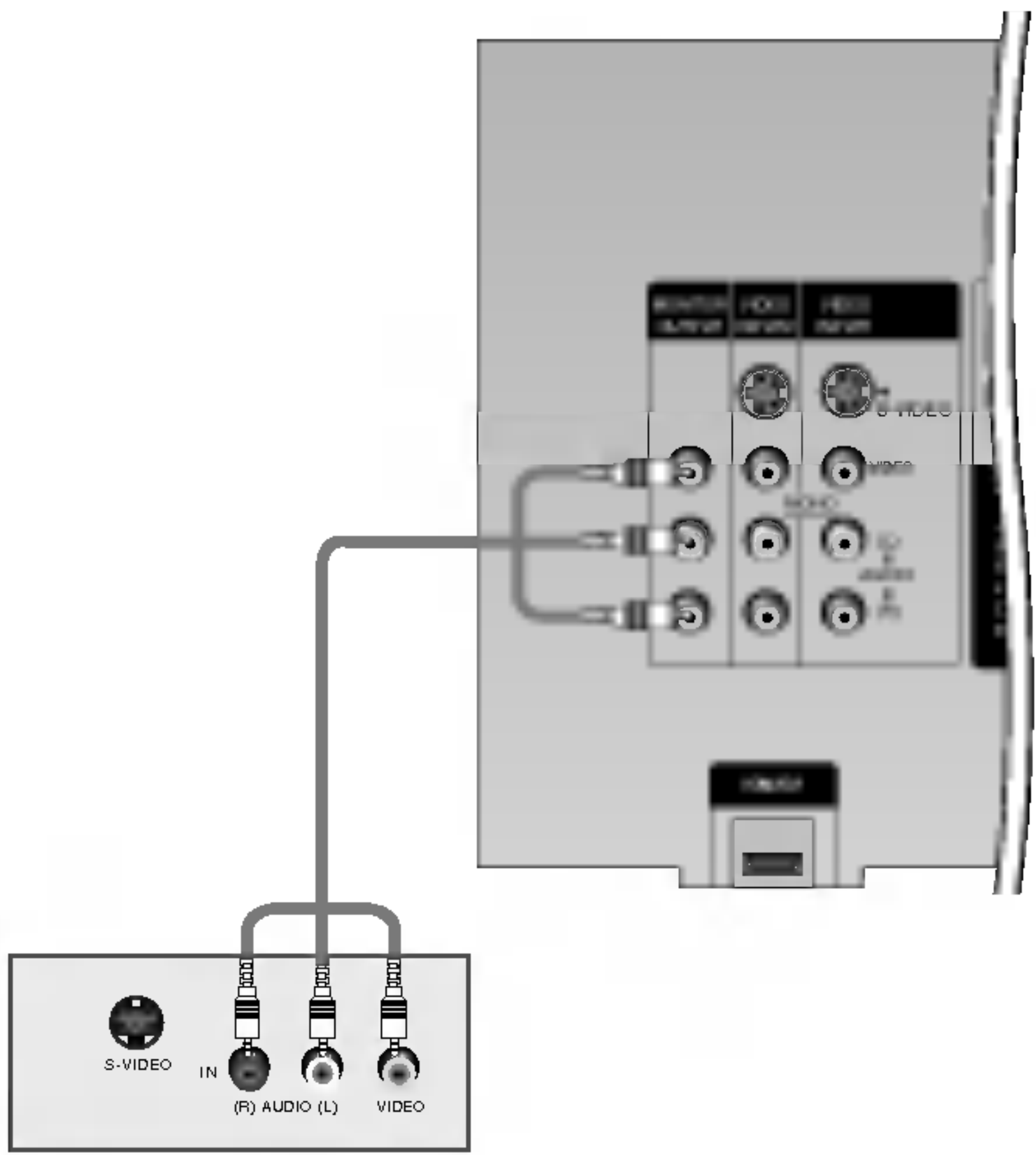
Use the TV's COMPONENT (Y, Pb, Pr) INPUT, RGB or HDMI jack for video connections, depending on your set-top box connector. Then, make the corresponding audio connections.

How to use

1. Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
2. Use **TV/VIDEO** or **MULTIMEDIA** on the remote control to select **Component 1**, **Component 2**, **RGB** or **HDMI** source.

Signal	Component 1/2	RGB, HDMI
480i	Yes	No
480p	Yes	Yes
720p	Yes	Yes
1080i	Yes	Yes

Monitor Out Setup



The TV has a special signal output capability which allows you to hook up a second TV or monitor.

Connect the second TV or monitor to the TV's MONITOR OUTPUT. See the Operating Manual of the second TV or monitor for further details regarding that device's input settings.

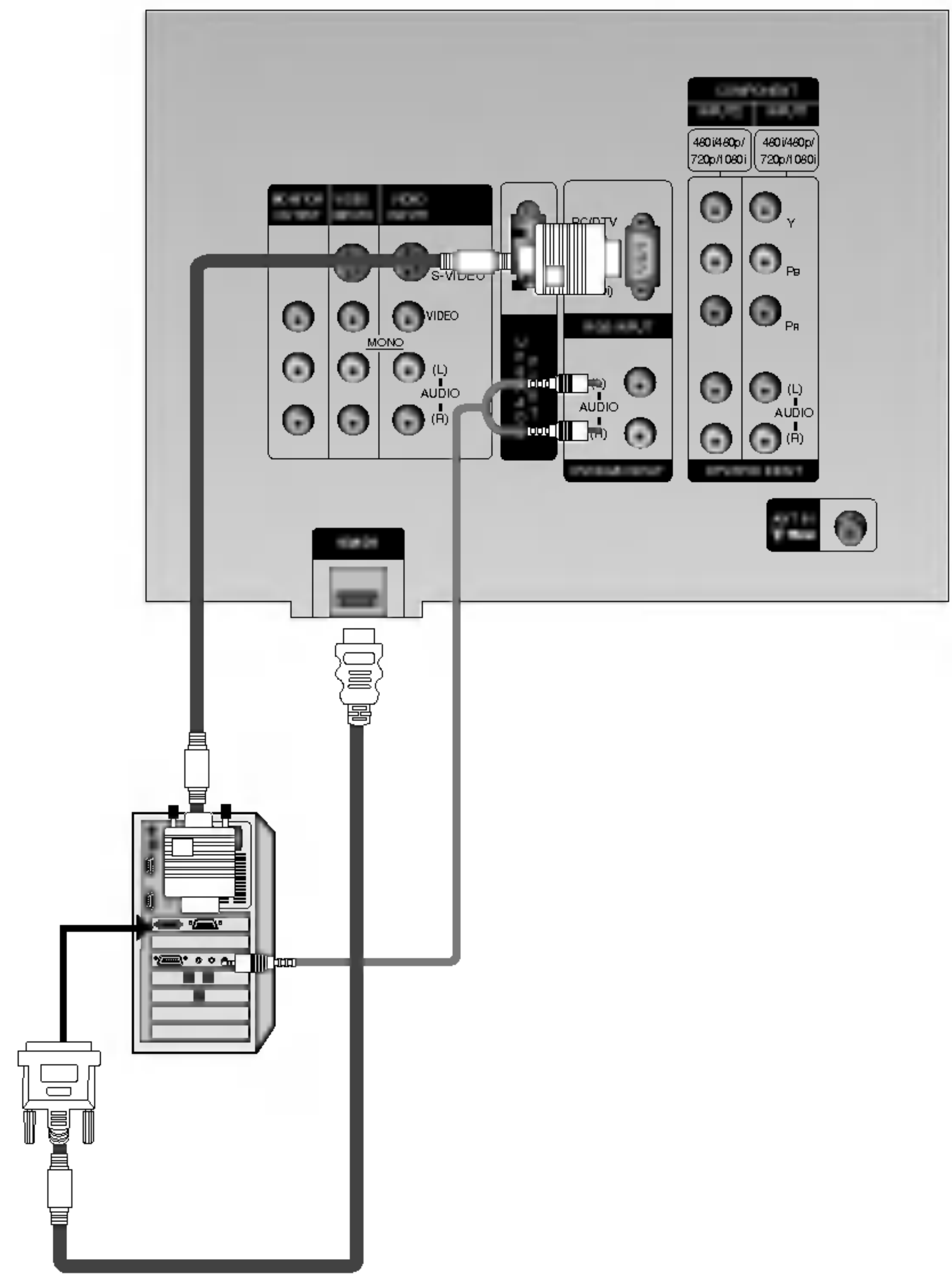
NOTE

- Component, RGB, HDMI input sources cannot be used for Monitor out.

PC Setup

How to connect

1. Use the TV's RGB INPUT or HDMI/DVI (VIDEO) INPUT port for video connections, depending on your PC connector.
 - If the graphic card on the PC does not output analog and digital RGB simultaneously, connect only one of either RGB INPUT or HDMI/DVI (VIDEO) to display the PC on the TV.
 - If the graphic card on the PC does output analog and digital RGB simultaneously, set the TV to either RGB or HDMI/DVI (VIDEO); (the other mode is set to Plug and Play automatically by the TV.)
2. Then, make the corresponding audio connection. If using a sound card, adjust the PC sound as required.



How to use

1. Turn on the PC and the TV.
2. Turn on the display by pressing the POWER button on the TV's remote control.
3. Use **TV/VIDEO** or **MULTIMEDIA** on the remote control to select **RGB** or **HDMI** source.
4. Check the image on your TV. There may be noise associated with the resolution, vertical pattern, contrast or brightness in PC mode. If noise is present, change the PC mode to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the menu until the picture is clear. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult the manufacturer of the PC graphic card.

NOTES:

- Avoid keeping a fixed image on the TV's screen for a long period of time. The fixed image may become permanently imprinted on the screen. Use the Orbiter screen saver when possible.
- The synchronization input form for Horizontal and Vertical frequencies is separate.
- When you use too long RGB-PC cable, there might be a noise on the screen. We recommend using under 5m of the cable. It provides the best picture quality.

Displayable Monitor Specifications

RGB / HDMI mode

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
640x350	37.861	85.08
640x480	31.469	59.94
	37.861	72.80
	37.500	75.00
	43.269	85.00
800x600	35.156	56.25
	37.879	60.31
	48.077	72.18
	46.875	75.00
	53.674	85.06
1024x768	48.363	60.00
	56.476	70.06
	60.023	75.02
	68.677	85.00

Operation

Turning the TV On

* In this manual, the OSD (On Screen Display) may be different from your TV's because it is just an example to help you with the TV operation.

- When using the remote control, aim it at its sensor on the set.

Turning on the set just after installation

1. Connect power cord correctly and press the **ON/OFF** button, the set is switched to standby mode.
2. Press the **TV/VIDEO** or **CH ▲ / ▼** button on the set or press the **POWER**, **MULTIMEDIA**, **TV/VIDEO**, **CH ▲ / ▼** or **NUMBER** buttons on the remote control and then the set will switch on.

Turning on the set (power cord is still connected)

If the set was turned off with the remote control power button and the **ON/OFF** button on the set.

- Press the **ON/OFF** button on the set and press the **TV/VIDEO** or **CH ▲ / ▼** button on the set or press the **POWER**, **MULTIMEDIA**, **TV/VIDEO**, **CH ▲ / ▼** or **NUMBER** button on the remote control to turn the set on.

NOTE

- If you intend to be away on vacation, disconnect the power plug from the wall power outlet.

Menu Language Selection

- The menus can be shown on the screen in the selected language. First select your language.

1. Press the **MENU** button and then use **▲ / ▼** button to select the **SPECIAL** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **Language**.
3. Press the **►** button and then use **▲ / ▼** button to select your desired language.
From this point on, the on-screen menus will be shown in the language of your choice.
4. Press the **OK** button to save.

Channel Menu Options

Auto Program should be used to memorize all the active channels in your area before you are able to use the TV.

There are two ways of storing channels in the TV's memory. You can use either.

One is called AUTO PROGRAM and the other is called MANUAL PROGRAM.

In AUTO PROGRAM mode, the TV will memorize the channels in ascending numerical order. If there are additional channels you want to add or delete, you can manually add or delete those channels with Manual Program.

Auto Program: Channel Search

- Redo Auto Program if the Plasma Display is ever moved to another location.
- Auto Program will search for channels only through the Antenna jack.
- If channels numbers for broadcast over-the air TV and cable TV are duplicated where different channels have the same number, press the same number buttons again to toggle between:



(For example, press 17 to go to the channel, press 17 again to go to the duplicated channel.)

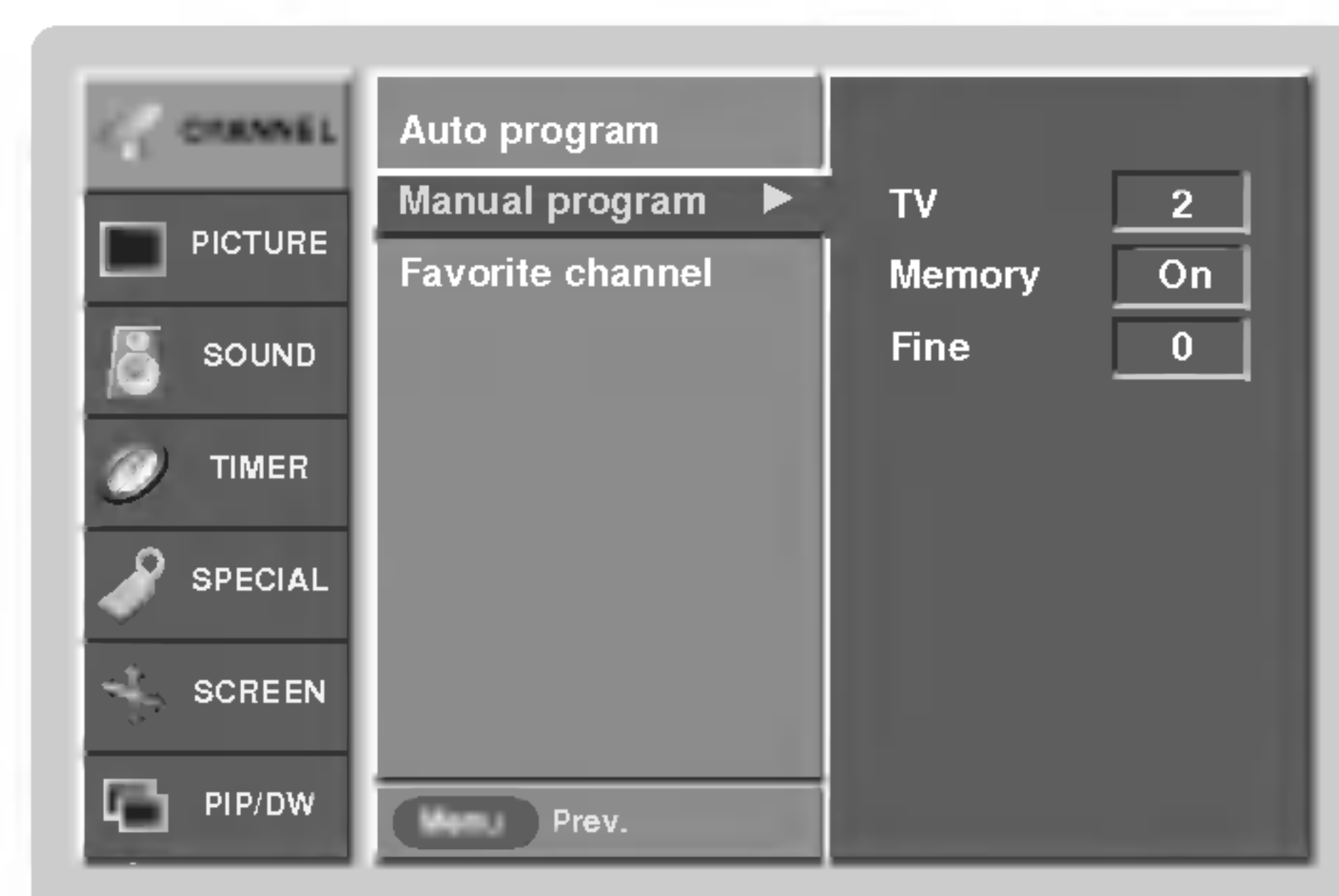
1. Press the **MENU** button and then use **▲ / ▼** button to select the **CHANNEL** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **Auto program**.
3. Press the **►** button.
 AUTO PROGRAM starts the channel search.
 If you want to stop auto programming, press the **OK** button.
 Only the channels found up to at that time are memorized.



Manual Program: Adding/Deleting Channels

- You can add or delete channels from the channel scan manually.

1. Press the **MENU** button and then use **▲ / ▼** button to select the **CHANNEL** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **Manual program**.
3. Press the **►** button and then use **▲ / ▼** button to select **TV**.
4. Use the **◀ / ▶** buttons to select the channel number you want to add or delete.
5. Press the **▲ / ▼** button to select **Memory**.
6. Use the **◀ / ▶** button to select **On** or **Off**.
7. Press the **OK** button.



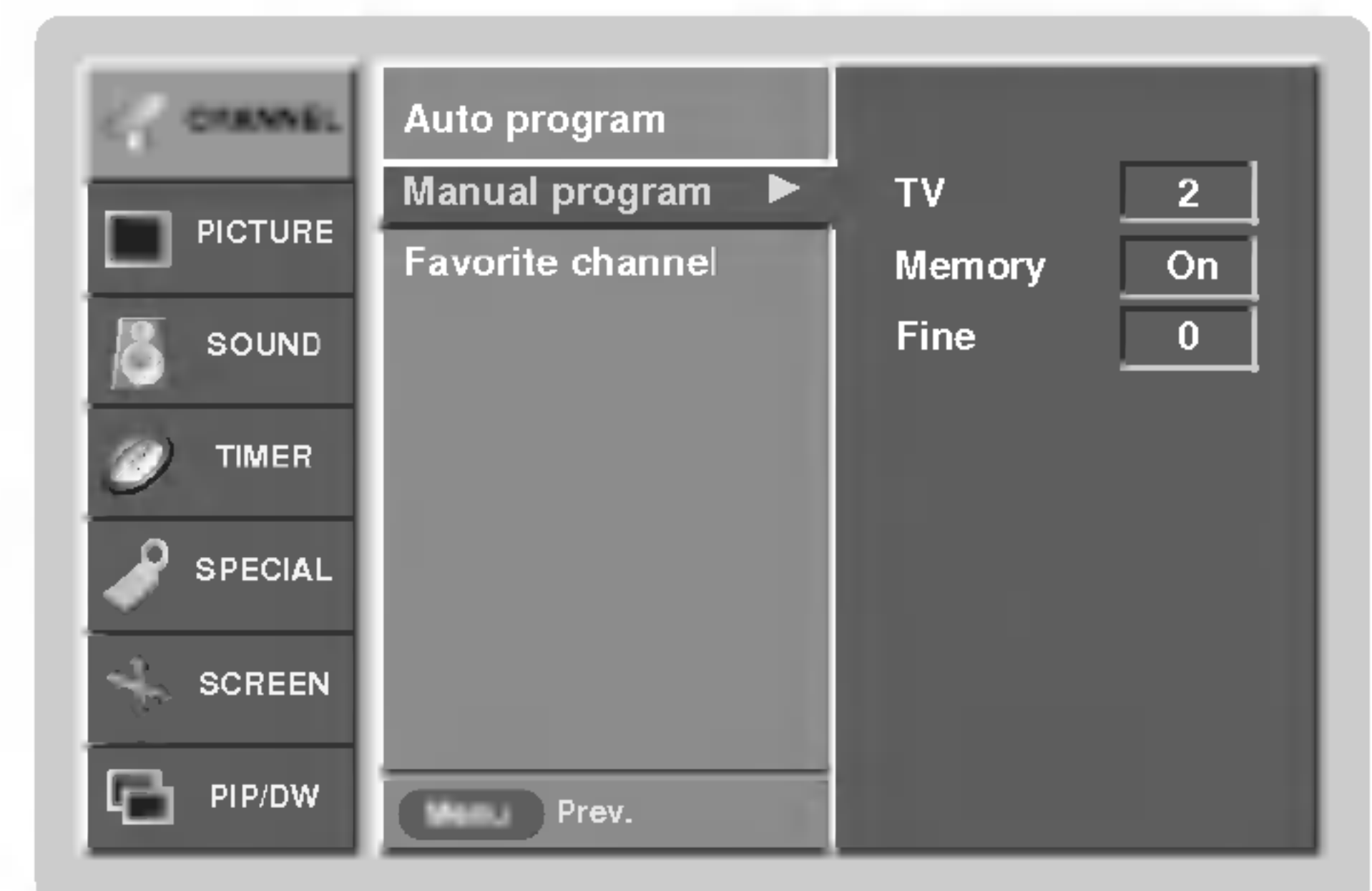
Channel Menu Options continued

Fine Tuning Adjustment

- Use this function to correct the picture's instability and condition if it is poor.
1. Press the **MENU** button and then use ▲ / ▼ button to select the **CHANNEL** menu.
 2. Press the ► button and then use ▲ / ▼ button to select **Manual program**.
 3. Press the ► button and then use ▲ / ▼ button to select **Fine**.
 4. Use the ◀ / ▶ button to adjust the picture to your preference.
 5. Press the **OK** button to save.

Notes

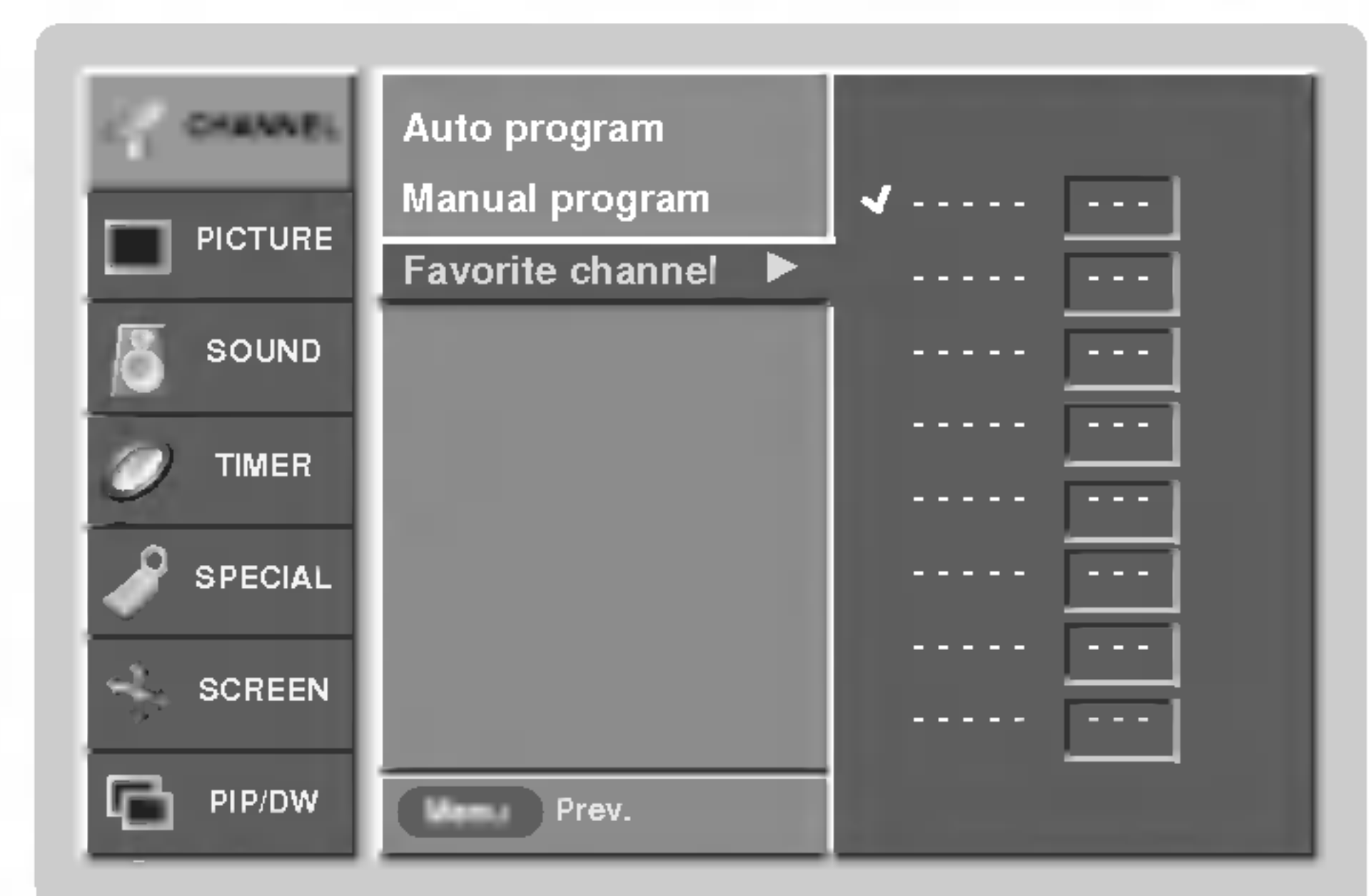
- To remove fine tuning from a channel, reprogram the finely-tuned channel with Auto program or Manual Program.
- If a finely-tuned channel is memorized, the color of the channel number changes to yellow.



Favorite Channels Setup

- Favorite Channels is a convenient feature that lets you quickly scan up to 8 channels of your choice without having to wait for the TV to scan through all the in-between channels.
1. Press the **MENU** button and then use ▲ / ▼ button to select the **CHANNEL** menu.
 2. Press the ► button and then use ▲ / ▼ button to select **Favorite channel**.
 3. Press the ► button and then use ▲ / ▼ button to select the first favorite channel position.
 4. Use the ◀ / ▶ button to set the desired channel number for first favorite channel.
 5. Repeat steps 3 to 4 to memorize other favorite channels.
 6. Press the **OK** button to save.

- To tune to a favorite channel, press the **FCR** (Favorite Channel Review) button repeatedly. The eight favorite channels appear on the screen in numerical order.

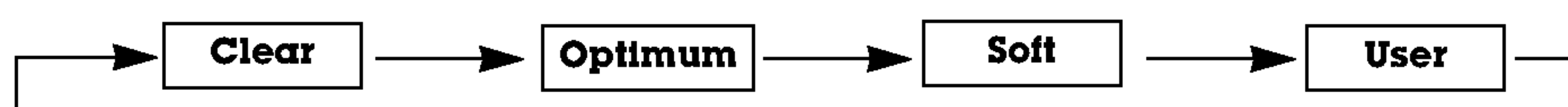


Picture Menu Options

APC (Auto Picture Control)

- APC adjusts the TV to the best picture appearance.
- If adjusting picture options (contrast, brightness, color, sharpness or tint) manually, APC automatically changes to **User**.

1. Press the **APC** button repeatedly to select the picture appearance setup option as shown below.



- You can also adjust **APC** in the **PICTURE** menu.
- **Clear**, **Optimum** and **Soft** settings are preset for good picture quality at the factory and cannot be changed.

XD

- XD is LG Electronic's unique picture improving technology to display a real HD source through an advanced digital signal processing algorithm.
- When selecting APC options (Clear, Optimum and Soft), XD is automatically change to On.
- XD is not available for RGB (PC) and HDMI (PC) sources.

1. Press the **MENU** button and then use **▲ / ▼** button to select the **PICTURE** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **XD**.
3. Press the **►** button and then use **▲ / ▼** button to set **On** or **Off**.
4. Press the **OK** button to save.



Color Temperature Control

Auto Color Temperature Control

- To initialize values (reset to default settings), select the **Normal** option.

1. Press the **MENU** button and then use **▲ / ▼** button to select the **PICTURE** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **ACC**.
3. Press the **►** button and then use **▲ / ▼** button to select either: **Cool** (Preset), **Normal** (Default), or **Warm** (Preset).
4. Press the **OK** button to save.

Manual Color Temperature Control (ACC set to User option)

- You can adjust red, green, or blue to any color temperature you prefer.

1. Press the **MENU** button and then use **▲ / ▼** button to select the **PICTURE** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **ACC**.
3. Press the **►** button and then use **▲ / ▼** button to select **User**.
4. Press the **►** button and then use **▲ / ▼** button to select **Red**, **Green** or **Blue**.
5. Use the **◀ / ▶** button to make appropriate adjustments.

- The adjustment range of **Red**, **Green** and **Blue** is -30 ~ +30.

6. Press the **OK** button to save.



Picture Menu Options continued

ACM (Active Color Management)

- Adjust the **ACM** to select the desired skin color option.
 - This function works in the following mode:
TV, VIDEO1,2, COMPONENT1, 2, RGB-DTV, HDMI-DTV.
 - It's not available to use this function in **XD Off** mode.
1. Press the **MENU** button and then use ▲ / ▼ button to select the **PICTURE** menu.
 2. Press the ► button and then use ▲ / ▼ button to select **ACM**.
 3. Press the ► button and then use ◀ / ▶ button to make appropriate adjustments.
 4. Press the **OK** button to save.



sRGB (only RGB-PC, HDMI-PC Modes)

- If the TV is connected to external equipment using sRGB, set sRGB to On to adjust for the color difference.
1. Press the **MENU** button and then use ▲ / ▼ button to select the **PICTURE** menu.
 2. Press the ► button and then use ▲ / ▼ button to select **sRGB**.
 3. Press the ► button and then use ▲ / ▼ button to select **On** or **Off**.
 4. Press the **OK** button to save.



Manual Picture Control (**APC** set to **User** option)

- You can adjust picture contrast, brightness, color, sharpness, and tint options to the levels you prefer.
1. Press the **MENU** button and then use ▲ / ▼ button to select the **PICTURE** menu.
 2. Press the ► button and then use ▲ / ▼ button to select the desired picture option (**Contrast**, **Brightness**, **Color**, **Sharpness**, **Tint**).
 3. Press the ► button and then use ◀ / ▶ button to make appropriate adjustments.
 4. Press the **OK** button to save.



Sound Menu Options

DASP (Digital Auto Sound Processing)

- This function lets you enjoy the best sound without any special adjustment because the TV has the appropriate sound options based on the program content.
- If you adjust sound options (Treble and Bass) manually, DASP automatically changes to **User**.

1. Press the **DASP** button repeatedly to select the appropriate sound setup as shown below.



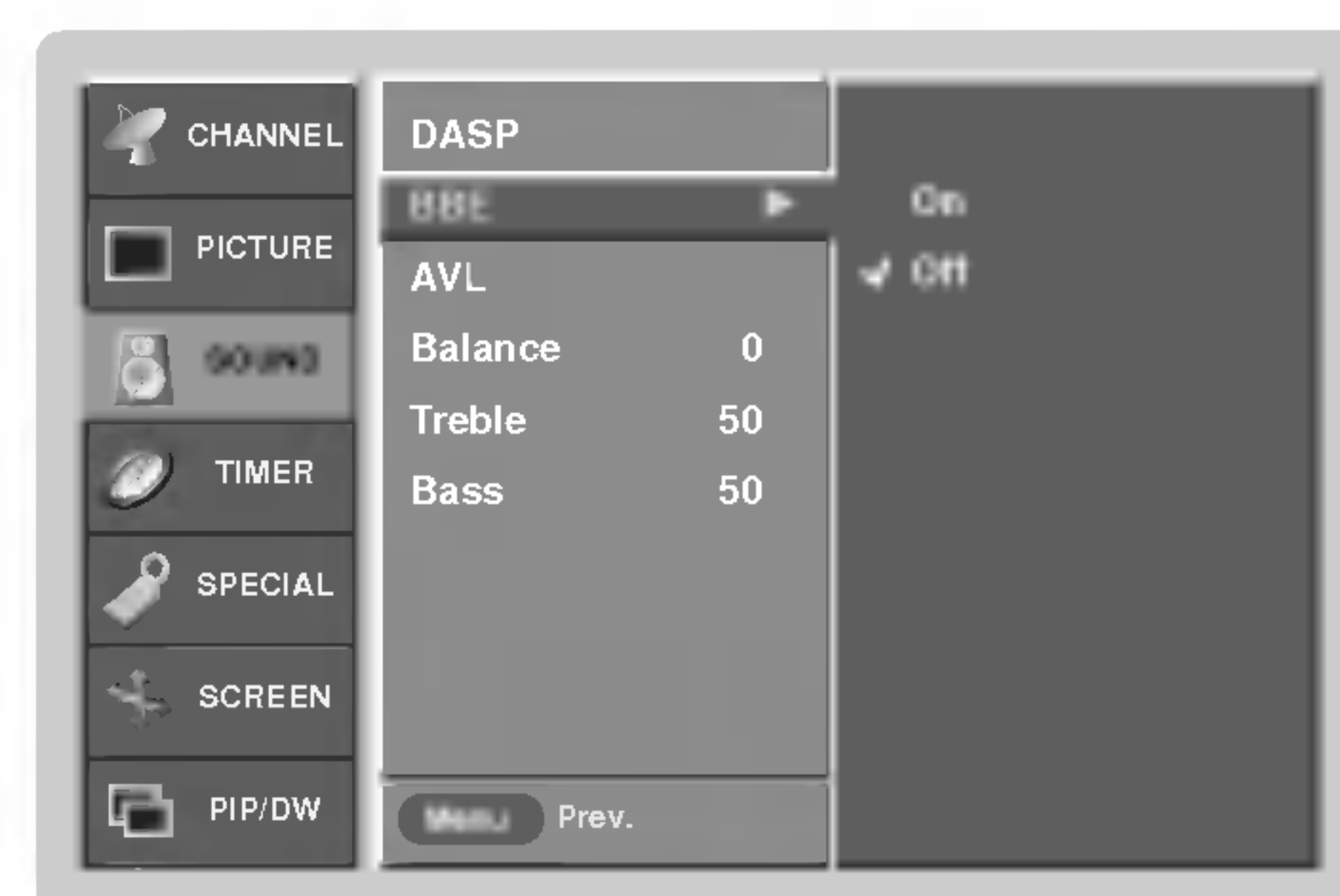
- You can also adjust **DASP** in the **SOUND** menu.
- **SRS TSXT**, **Flat**, **Music**, **Movie**, and **Sports** are preset for good sound quality at the factory and cannot be changed.
- **SRS** is a trademark of SRS Labs, Inc.
- TruSurround XT technology is incorporated under license from SRS Labs, Inc.

BBE

- BBE High Definition Sound restores clarity and presence for better speech intelligibility and music realism.

1. Press the **MENU** button and then use **▲** / **▼** button to select the **SOUND** menu.
2. Press the **►** button and then use **▲** / **▼** button to select **BBE**.
3. Press the **►** button and then use **▲** / **▼** button to select **On** or **Off**.
4. Press the **OK** button to save.

- **BBE**. Manufactured under license from BBE Sound, Inc.
- Treble, Bass or BBE aren't suitable for **SRS TSXT** mode.



AVL (Auto Volume Leveler)

- AVL maintains an equal sound level; even if you change channels.

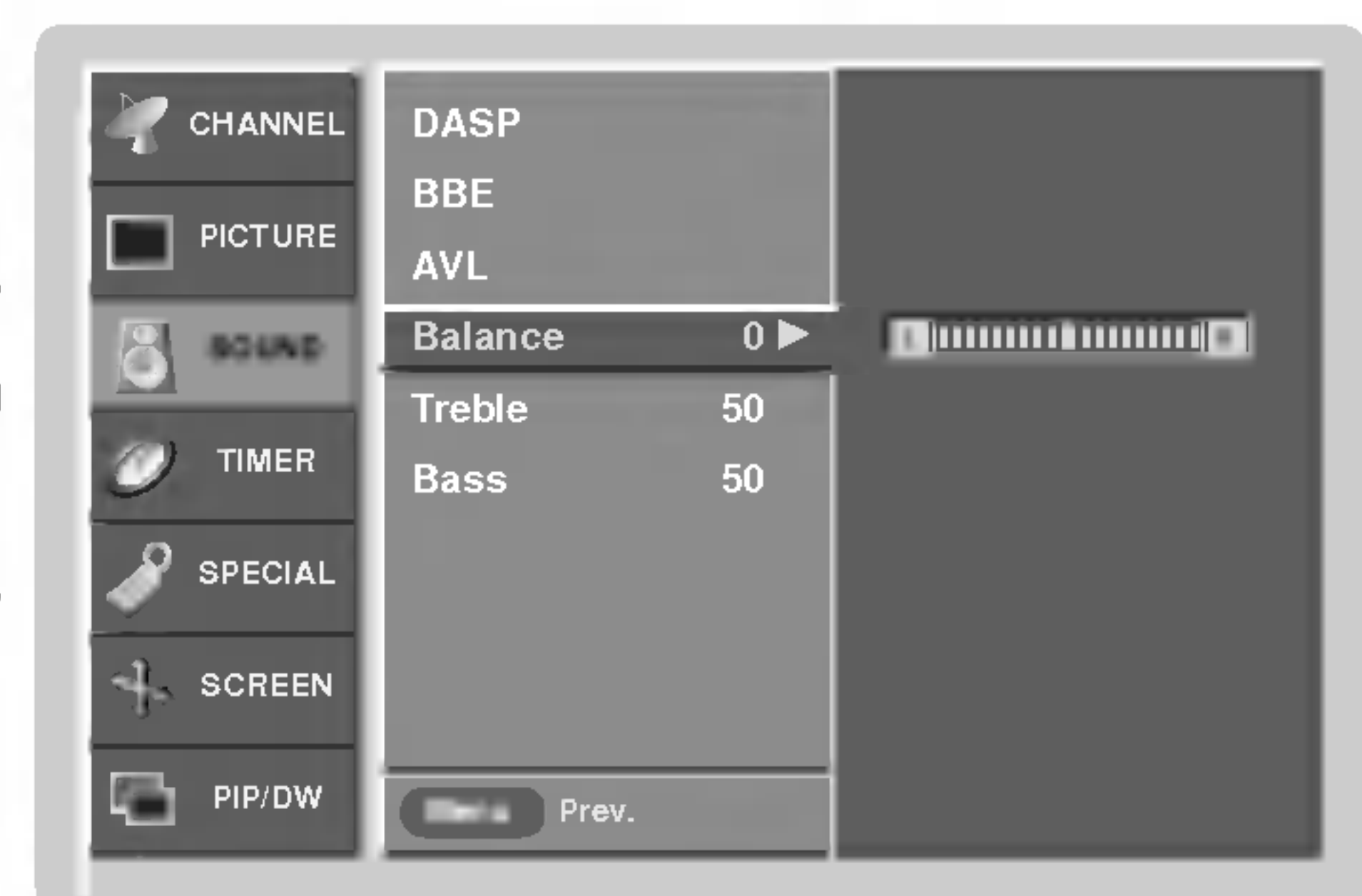
1. Press the **MENU** button and then use **▲** / **▼** button to select the **SOUND** menu.
2. Press the **►** button and then use **▲** / **▼** button to select **AVL**.
3. Press the **►** button and then use **▲** / **▼** button to select **On** or **Off**.
4. Press the **OK** button to save.



Sound Menu Options continued

Manual Sound Control (**DASP** set to **User** option)

- You can adjust sound options Balance, Treble, and Bass to the levels you prefer.
1. Press the **MENU** button and then use **▲** / **▼** button to select the **SOUND** menu.
 2. Press the **►** button and then use **▲** / **▼** button to select the desired sound option (**Balance**, **Treble**, **Bass**).
 3. Press the **►** button and then use **◀** / **▶** button to make appropriate adjustments.
 4. Press the **OK** button to save.



Stereo/SAP Broadcasts Setup

- The TV can receive MTS stereo programs and any SAP (Secondary Audio Program) that accompanies the stereo program; if the broadcaster transmits one additional sound signal in addition to the original one.
- Mono: The primary language is heard from left and right speakers. Signal mode is mono.
- Stereo: The primary language is heard from left and right speakers. Signal mode is stereo.
- SAP: The secondary language is heard from left and right speakers in mono sound.

1. Press the **MTS** button repeatedly.



- Select mono sound mode if the signal is not clear or in poor signal reception areas.
- **Stereo**, **SAP** modes are available only if included on the broadcast signal.

Timer Menu Options

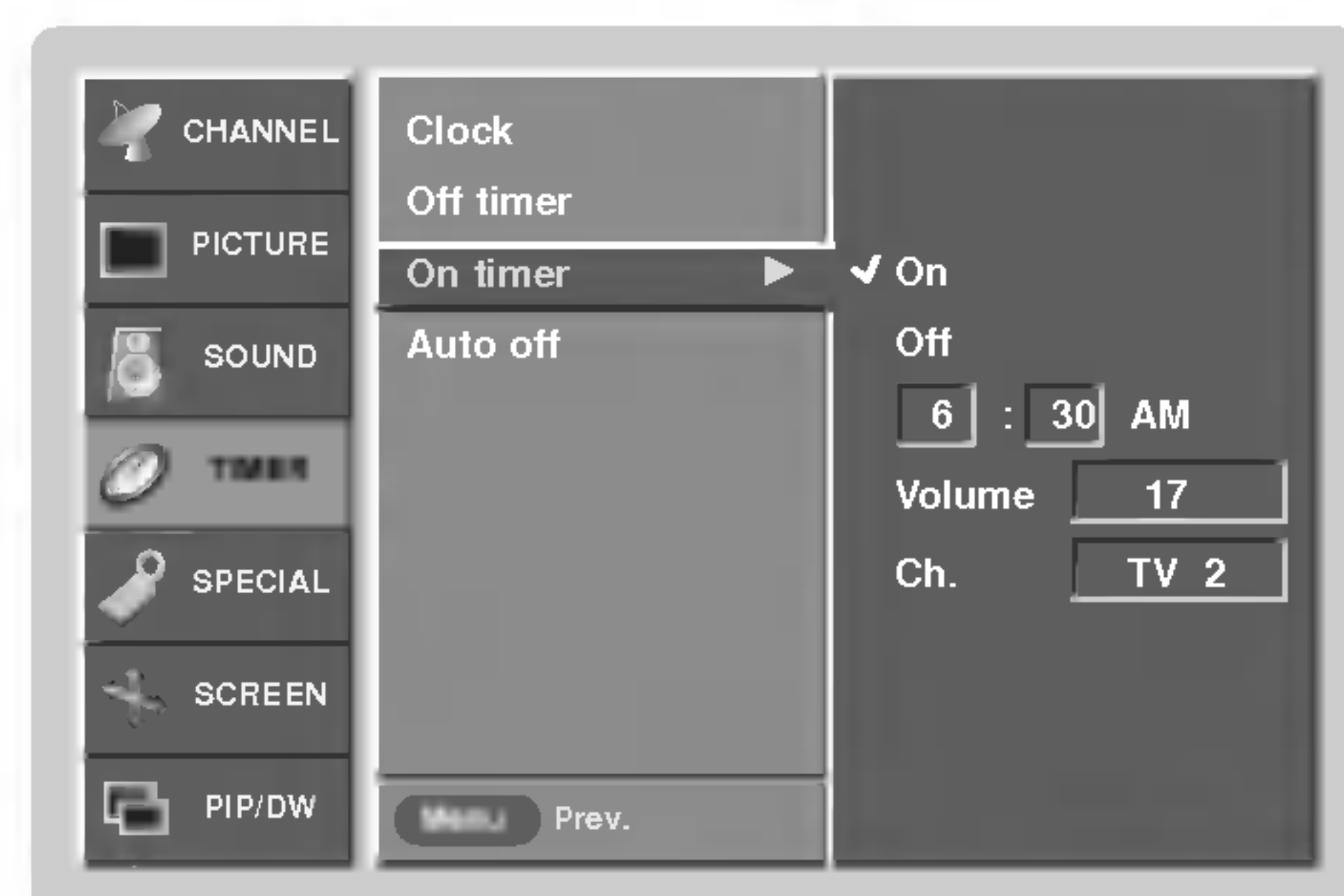
Clock Setup

- If current time setting is wrong, reset the clock manually.
1. Press the **MENU** button and then use ▲ / ▼ button to select the **TIMER** menu.
 2. Press the ► button and then use ▲ / ▼ button to select **Clock**.
 3. Press the ► button and then use ▲ / ▼ button to set the hour.
 4. Press the ► button and then use ▲ / ▼ button to set the minutes.
 5. Press the **OK** button to save.



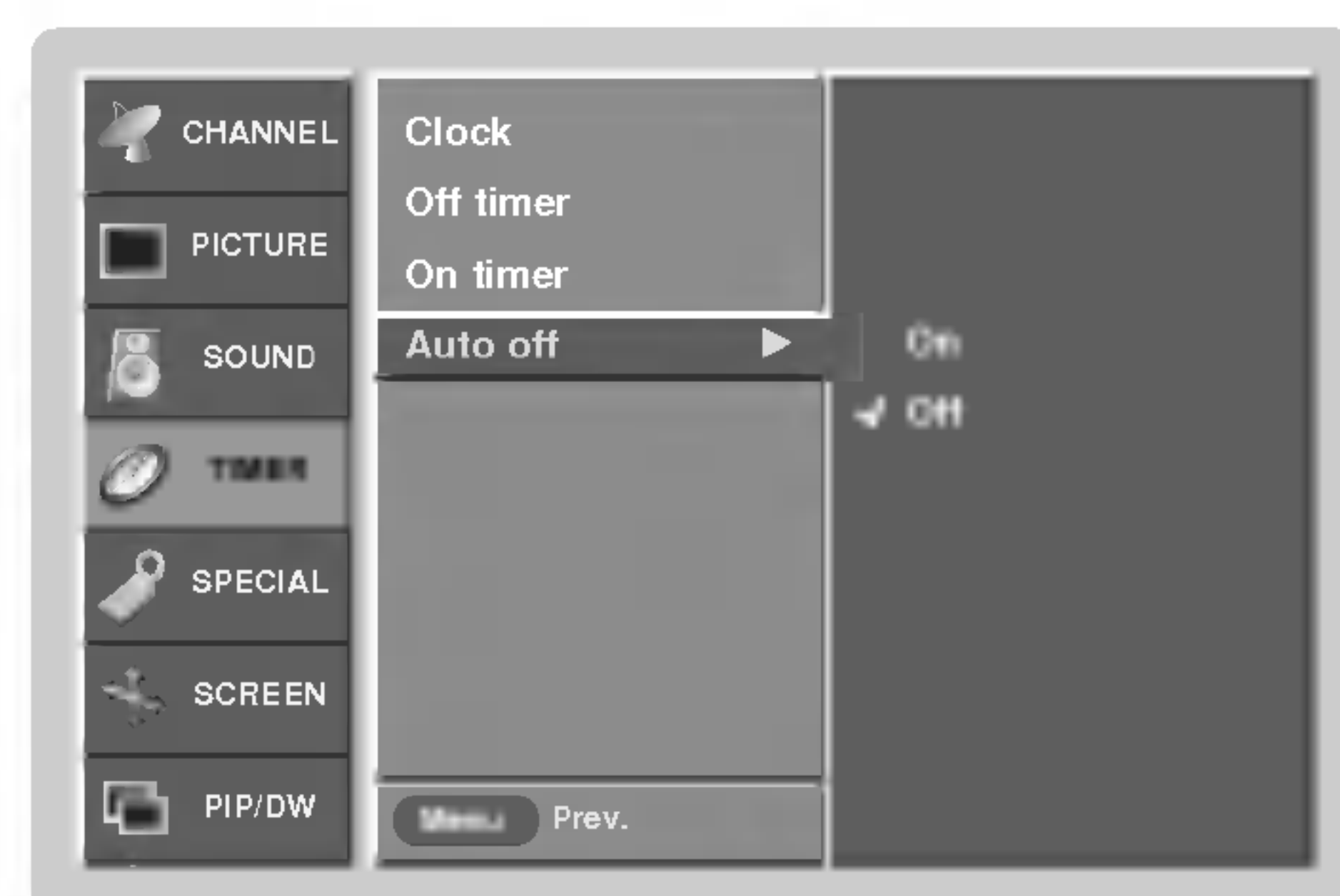
On/Off Timer Setup

- Timer function operates only if current time has been set.
 - Off-Timer function overrides On-Timer function if they are set both set to the same time.
 - The TV must be in standby mode for the On-Timer to work.
 - If you do not press any button within 2 hours after the TV turns on with the On Timer function, the TV will automatically revert to standby mode.
1. Press the **MENU** button and then use ▲ / ▼ button to select the **TIMER** menu.
 2. Press the ► button and then use ▲ / ▼ button to select **Off timer** or **On timer**.
 3. Press the ► button and then use ▲ / ▼ button to select **On**.
 - To cancel **On/Off timer** function, select **Off**.
 4. Press the ► button and then use ▲ / ▼ button to set the hour.
 5. Press the ► button and then use ▲ / ▼ button to set the minutes.
 6. **For only On timer function**
 - Press the ► button and then use ▲ / ▼ button to set the volume level at turn-on.
 - Press the ► button and then use ▲ / ▼ button to select the channel at turn-on.
 7. Press the **OK** button to save.



Auto Off

- If set to on and there is no input signal, the TV turns off automatically after 10 minutes.
1. Press the **MENU** button and then use ▲ / ▼ button to select the **TIMER** menu.
 2. Press the ► button and then use ▲ / ▼ button to select **Auto off**.
 3. Press the ► button and then use ▲ / ▼ button to select **On** or **Off**.
 4. Press the **OK** button to save.



Sleep Timer

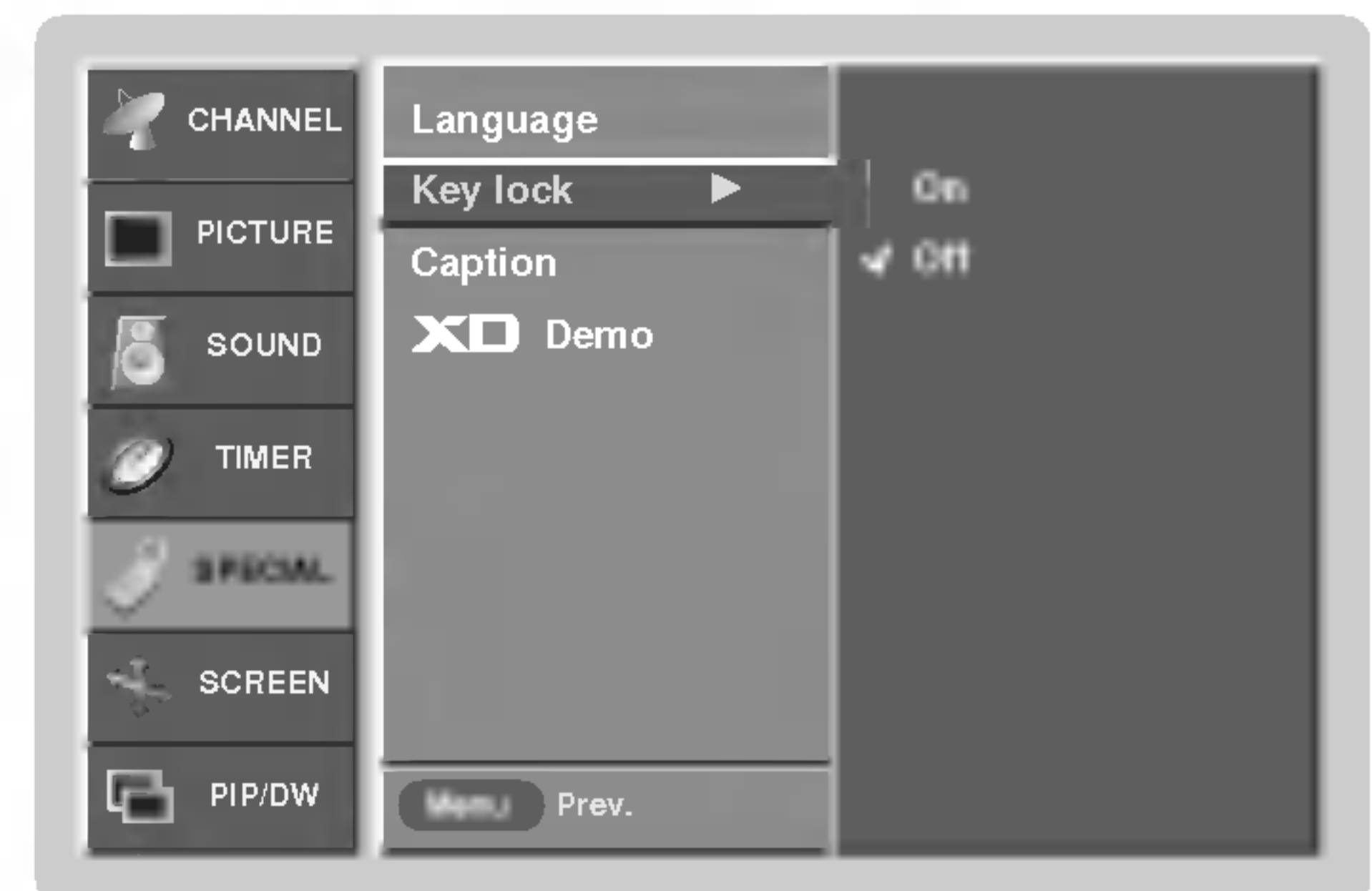
- The Sleep Timer turns the TV off at the preset time. Note that this setting is cleared when the TV is turned off.
1. Press the **SLEEP** button repeatedly to select the number of minutes. First the --- **Min** option appears on the screen, followed by the following sleep timer options:
10, 20, 30, 60, 90, 120, 180, and 240 minutes.
 2. When the number of minutes you want is displayed on the screen, press the **OK** button. The timer begins to count down from the number of minutes selected.
 3. To check the remaining minutes before the monitor turns off, press the **SLEEP** button once.
 4. To cancel the Sleep Timer, press the **SLEEP** button repeatedly until --- **Min** appears.

Special Menu Options

Key Lock

- The TV can be set up so that it can only be used with the remote control.
- This feature can be used to prevent unauthorized viewing by locking out the front panel controls.
- This TV is programmed to remember which option it was last set to even if you turn the TV off.

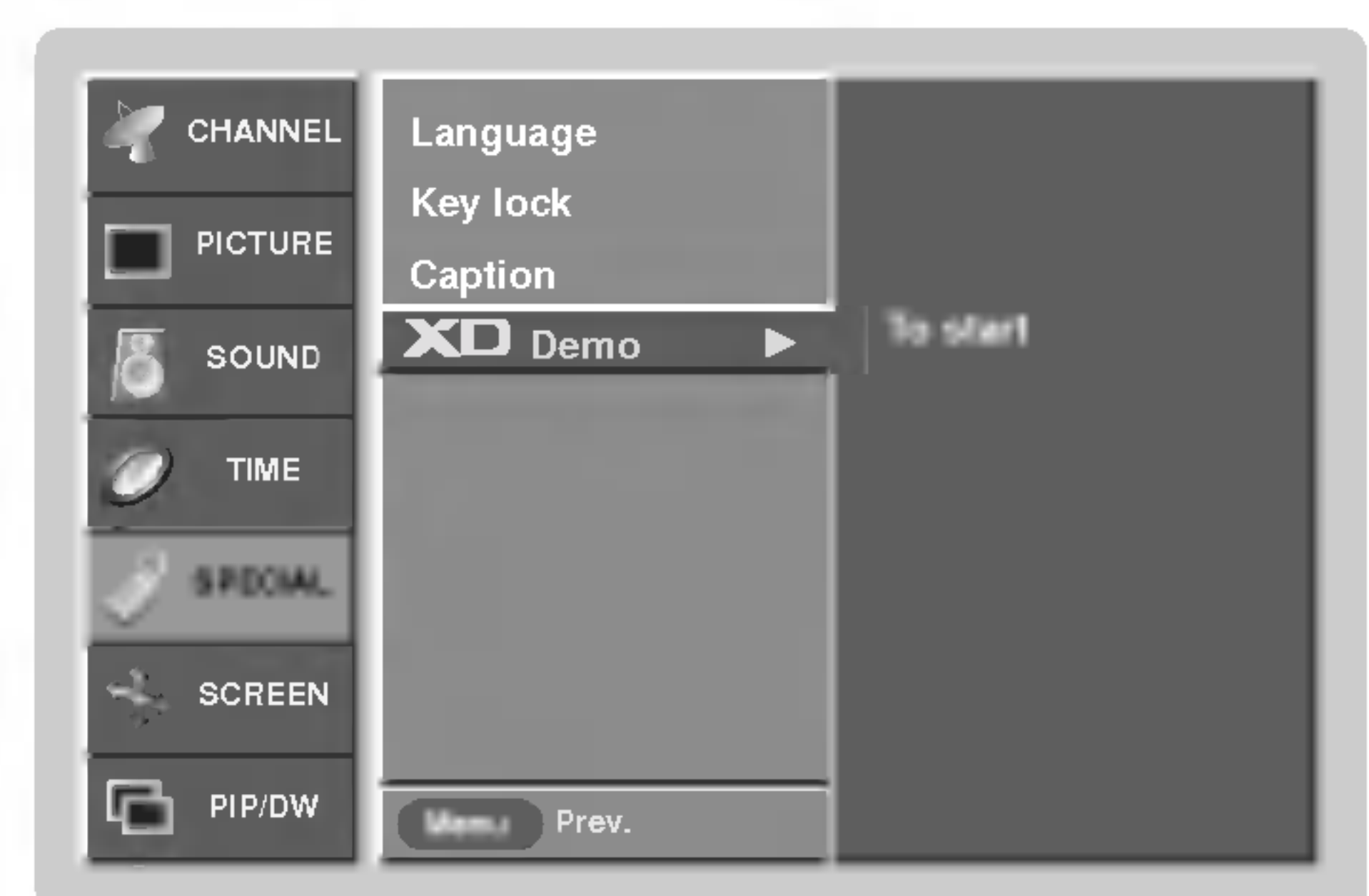
1. Press the **MENU** button and then use ▲ / ▼ button to select the **SPECIAL** menu.
2. Press the ► button and then use ▲ / ▼ button to select **Key lock**.
3. Press the ► button and then use ▲ / ▼ button to select **On** or **Off**.
4. Press the **OK** button to save.
 - With the Key lock On, the display '▲ **Key lock**' appears on the screen if any button on the front panel is pressed.



XD Demo

- Use it to see the difference between XD Demo on and XD Demo off.
- It's not available to use this function in RGB[PC], HDMI[PC] mode.

1. Press the **MENU** button and then use ▲ / ▼ button to select the **SPECIAL** menu.
2. Press the ► button and then use ▲ / ▼ button to select **XD Demo**.
3. Press the ► button to begin **XD Demo**.
4. Press the **EXIT** button to stop **XD Demo**.



Closed Captions

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

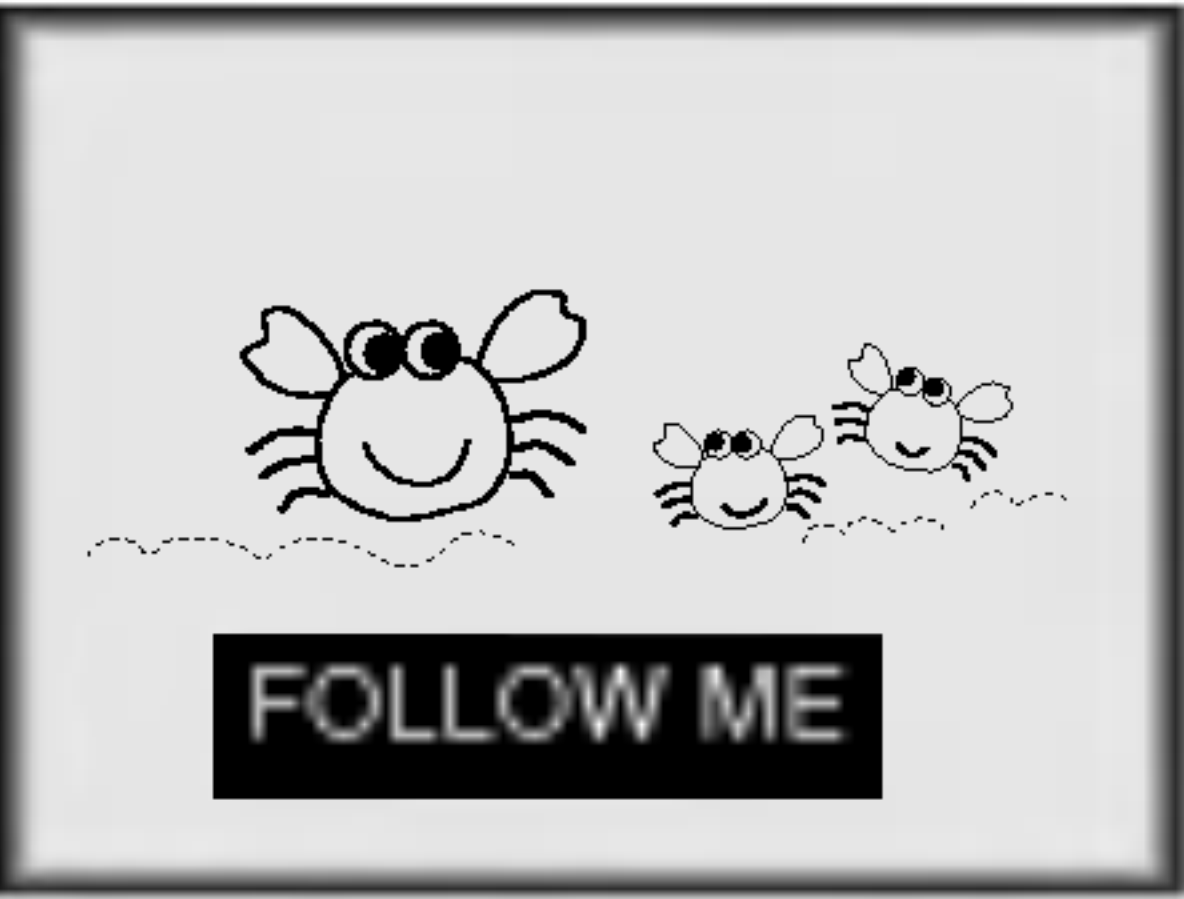
Using Closed Captions

Captions are the subtitles of the dialogue and narration of television programs. For prerecorded programs, program dialogue can be arranged into captions in advance. Its 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 four different caption signals on the same channel. By selecting **Model** to **Mode2**, you can choose which signal you view. **Model** is usually the signal with the captions, while **Another mode** 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 being 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.

Caption

Press the **CC** button repeatedly to select your caption selection.



- You can also adjust **Caption** in the **SPECIAL** menu.

Screen Menu Options

Auto Adjustment

- RGB (PC) mode only; This function doesn't work for RGB (DTV) mode.
- Automatically adjusts picture position and minimizes image shaking.
- After adjustment, if the image is still not correct, your TV is functioning properly but needs further adjustment.
- The **Auto config.** functions don't need to be run for HDMI mode.

1. Press the **MENU** button and then use **▲ / ▼** button to select the **SCREEN** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **Auto config.**
3. Press the **►** button to run Auto configure.
 - When **Auto config.** has finished, **OK** will be shown on screen.
 - If the position of the image is still not correct, try Auto adjustment again.
4. In RGB (PC) mode, if the image needs to be adjusted more after using **Auto config.**, you can make further adjustments with the **Manual config.** option.



Setting Picture Format

- Caution: If a 4:3 fixed image is on the screen for a long time, it may remain visible.
- Set every aspect ratio for TV, Video, Component 480i sources.
- Use 4:3 or 16:9 for other RGB(PC), HDMI(PC) sources.
- Horizon is not available for RGB (DTV), HDMI (DTV), and Component (DTV) sources.

1. Press the **ARC** button repeatedly to select the desired picture format. You can also adjust **ARC** in the **SCREEN** menu.

- **4:3**

Choose **4:3** when you want to view a picture with an original 4:3 aspect ratio, with black bars appearing at both the left and right sides.

- **16:9**

Choose **16:9** when you want to adjust the picture horizontally, in a linear proportion to fill the entire screen.

- **Horizon**

Choose **Horizon** when you want to adjust the picture in a non-linear proportion, that is, more enlarged at both sides, to create a spectacular view.

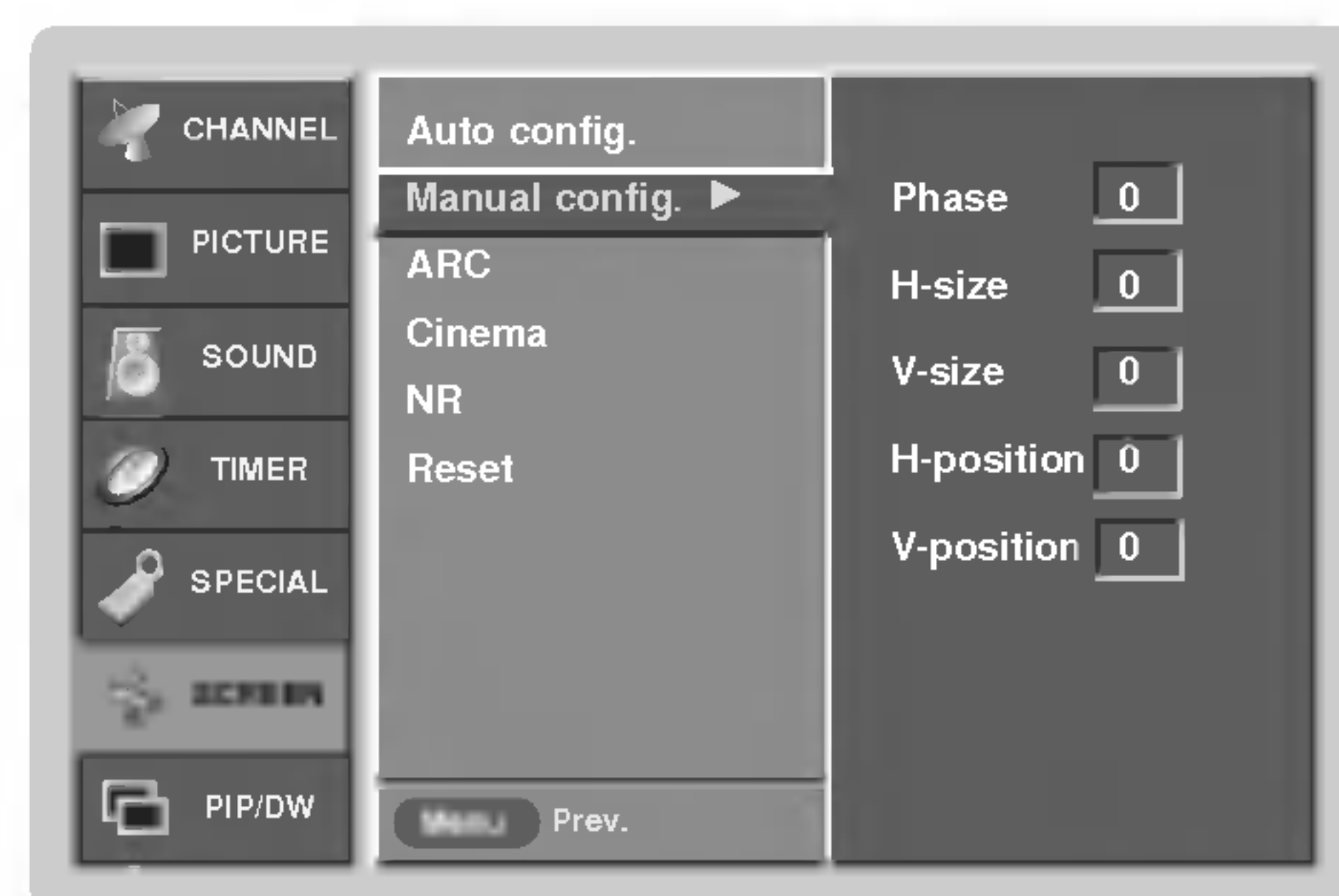
- **Zoom**

- Choose **Zoom** when you want to view the picture without any alteration. However, the top and bottom portions of the picture will be cropped.

Manual Configure

- If the image still isn't clear after auto adjustment and especially if characters are still jittery, adjust the picture Phase manually.
- This function works in the following mode : RGB, COMPONENT, HDMI-DTV(480p, 720p,1080i).
- It's not available to use Phase, Clock function in RGB, COMPONENT, HDMI-DTV (480p, 720p,1080i) mode.

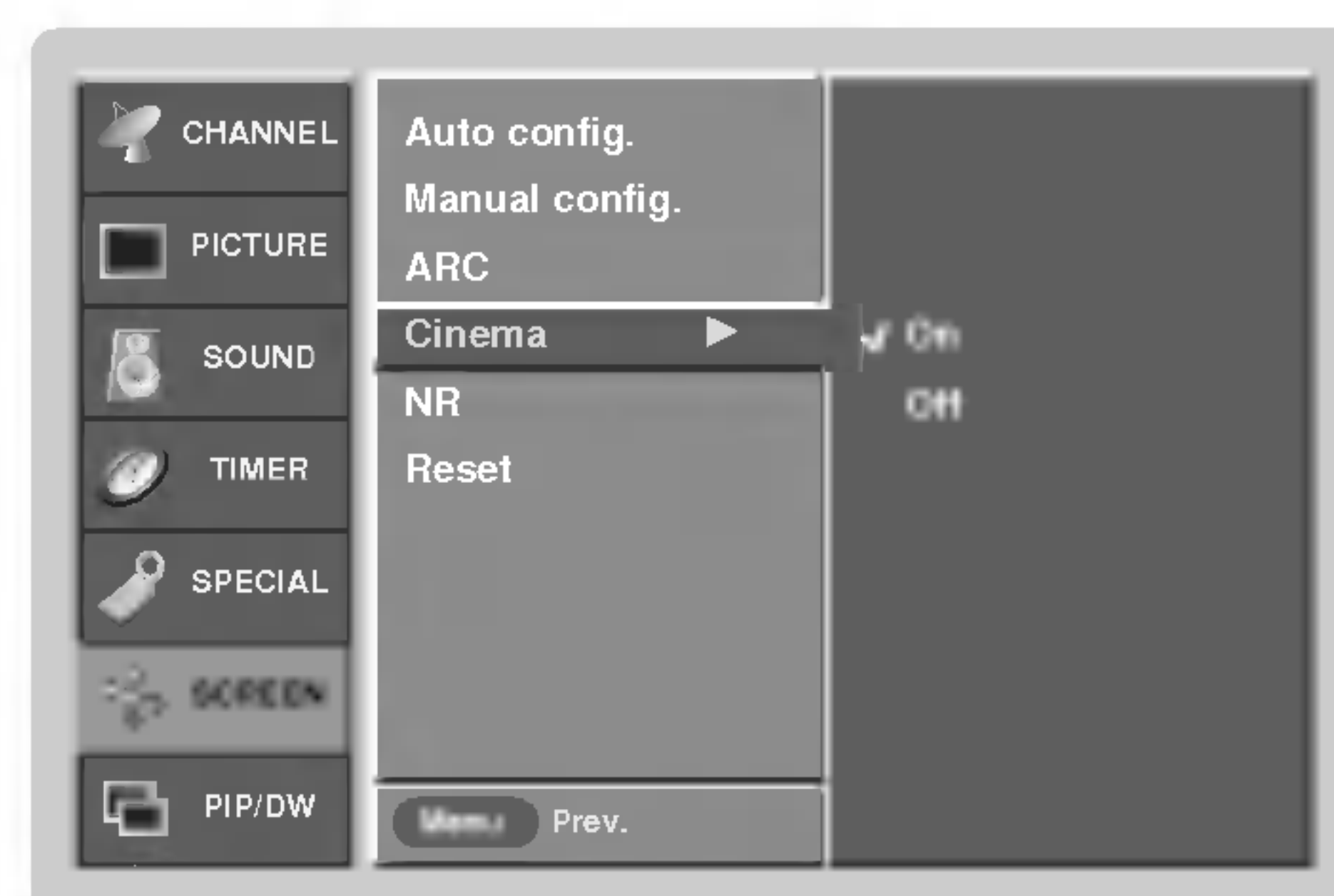
1. Press the **MENU** button and then use **▲ / ▼** button to select the **SCREEN** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **Manual config.**
3. Press the **►** button and then use **▲ / ▼** button to select **Phase, H-size, V-size, H-Position** or **V-Position**.
4. Use the **◀ / ▶** button to make appropriate adjustments.
 - The **Phase** adjustment range is 0 ~ 63.
5. Press the **OK** button to save.



Cinema Mode Setup (TV, Video1-2 and Component 480i mode only)

- Sets up the TV for the best picture appearance for viewing movies.
- This function works in the following mode:
TV, Video 1, Video 2 or COMPONENT (480i).

1. Press the **MENU** button and then use **▲ / ▼** button to select the **SCREEN** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **Cinema**.
3. Press the **►** button and then use **▲ / ▼** button to select **On** or **Off**.
4. Press the **OK** button to save.



NR (Noise Reduction)

- You can select **3D NR** or **MPEG NR** to reduce the picture noise which may appear on the screen during watching the TV.

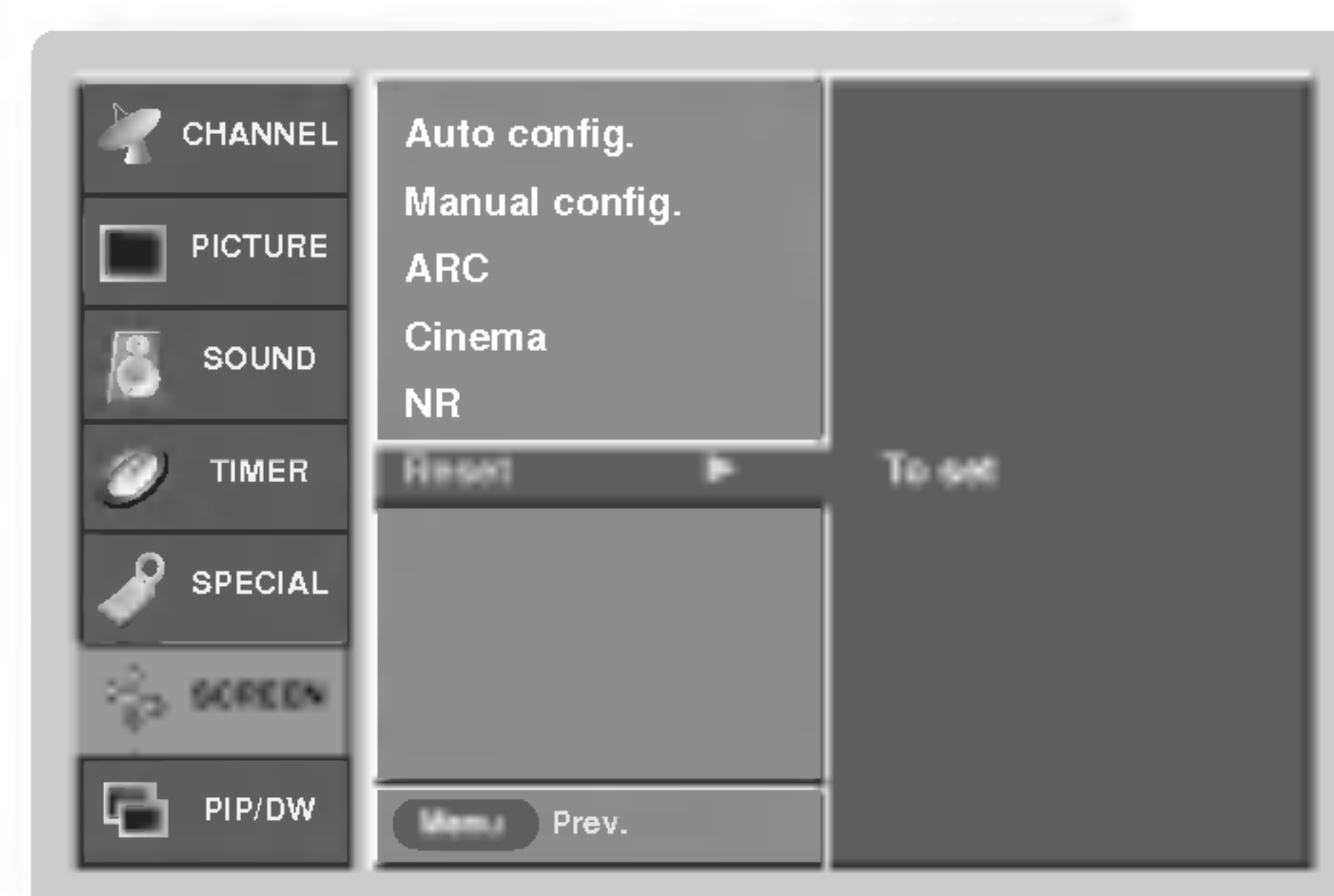
1. Press the **MENU** button and then use **▲ / ▼** button to select the **SCREEN** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **NR**.
3. Press the **►** button and then use **▲ / ▼** button to select **3D NR** or **MPEG NR**.
4. Press the **◀ / ▶** button to make appropriate adjustments.
5. Press the **OK** button to save.



Initializing (Reset to original factory value)

- Reset is unique to each function: Manual config., PIP Transparency, win. position, win. size and sub picture size for double window.
- Use the Reset option to initialize the adjusted settings.

1. Press the **MENU** button and then use **▲ / ▼** button to select the **SCREEN** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **Reset**.
3. Press the **►** button.

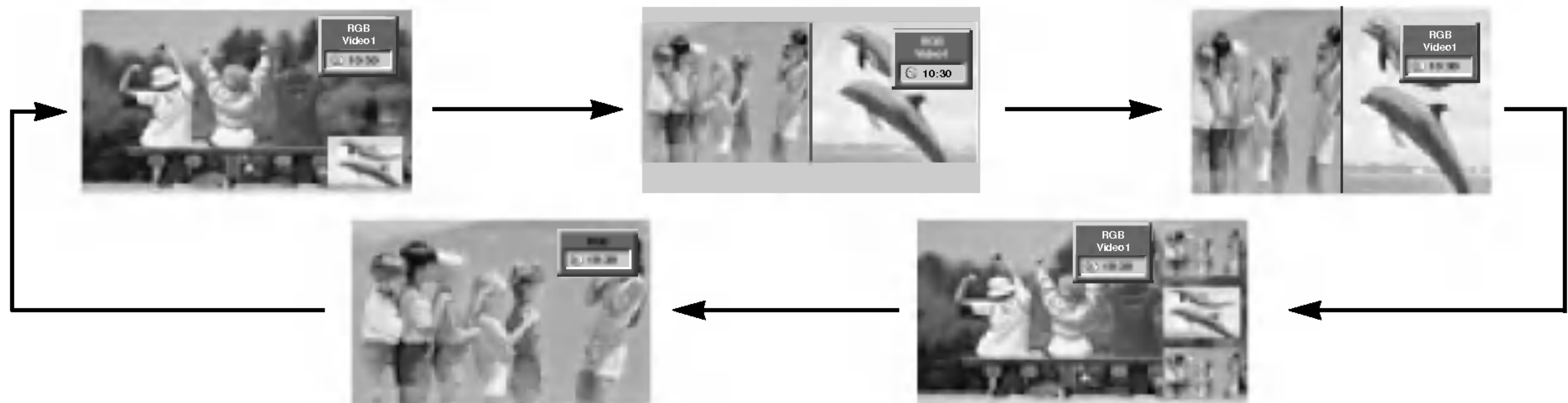


PIP (Picture-In-Picture)/Double Window Feature

- PIP lets you view 2 different inputs pictures (sources) on your TV screen at the same time. One source will be large, and the other source will show a smaller inset image.
- Double Window mode splits the screen into 2, allowing 2 picture sources to be shown on the TV screen at the same time. Each source is given half the screen.

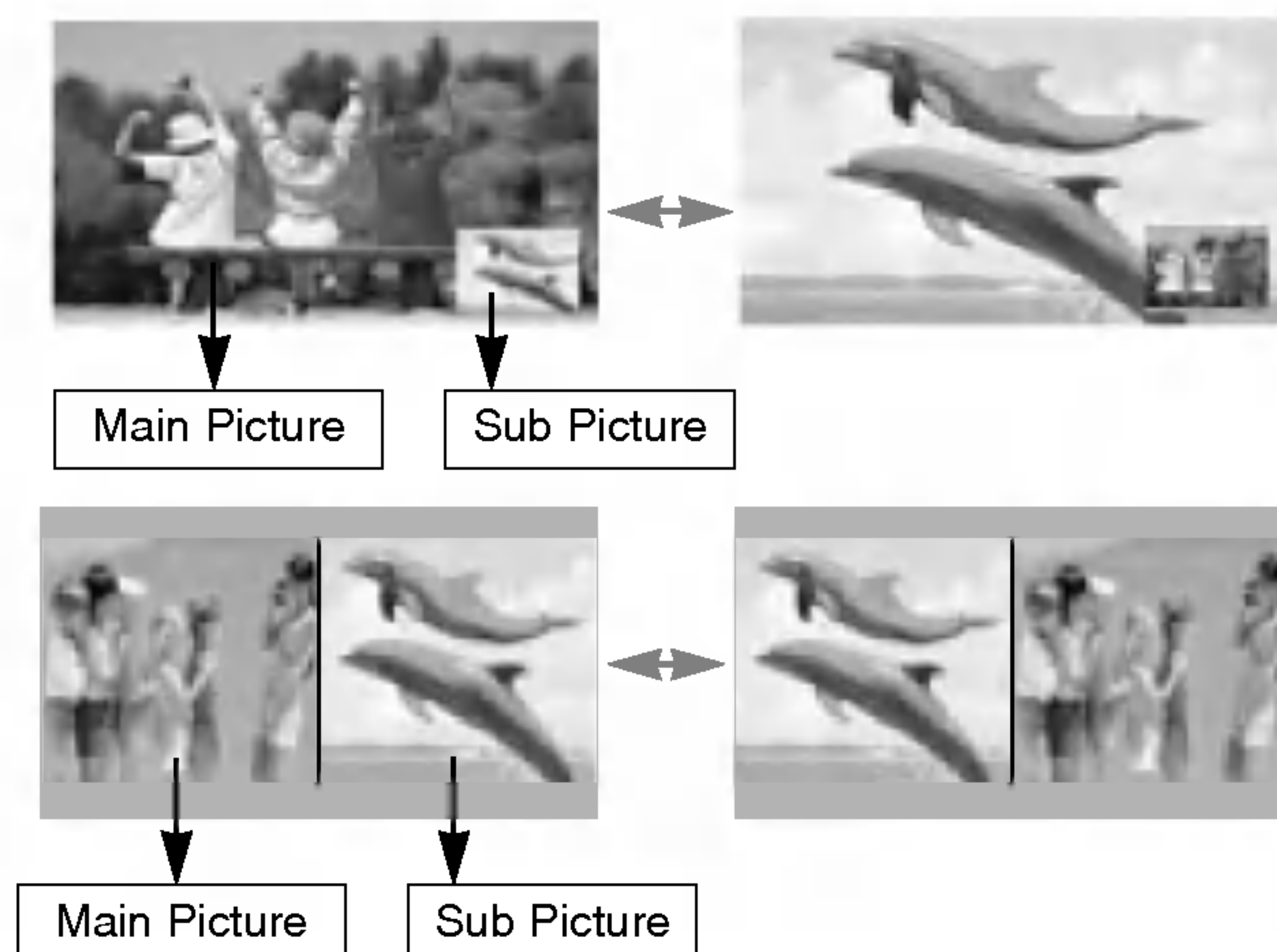
Watching PIP/Double Window

Press the **PIP** button to access the sub picture. Each press of PIP changes the PIP options as shown below.



Swapping the PIP/Double Window

Use the **SWAP** button to switch the main and sub pictures.



Moving the PIP (PIP Mode only)

1. Press the **MENU** button and then use **▲ / ▼** button to select the **PIP/DW** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **Win.position**.
3. Press the **►** button and then use **◀ / ▶** button to adjust window position.
4. Press the **OK** button to save.

POP(Picture-out-of-Picture: Channel Scan)

Use POP to search the programmes of all the memorized channels one-by-one on the 3 PIP screen display, (while the main picture source remains the current channel). The pictures of all the programmed channels are searched with the 3 POP screen.

PIP Transparency (PIP Mode only)

- To make the PIP clear or opaque.
1. Press the **MENU** button and then use **▲ / ▼** button to select the **PIP/DW** menu.
 2. Press the **►** button and then use **▲ / ▼** button to select **PIP Transparency**.
 3. Press the **►** button and then use **◀ / ▶** button to adjust PIP transparency.
 - The adjustment range of **PIP Transparency** is 0 ~ 10.
 4. Press the **OK** button to save.

PIP Size

1. Press the **MENU** button and then use **▲ / ▼** button to select the **PIP/DW** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **Win.size**.
3. Press the **►** button and then use **◀ / ▶** button to adjust window size.
4. Press the **OK** button to save.

TV Program selection for PIP

Press the **PIPC+** / **PIPC-** button to select a channel for the sub picture in PIP mode.

Selecting an Input Signal Source for PIP/DW

Use the **PIP INPUT** button to select the input source for the sub picture. Each press of **PIP INPUT** button changes the PIP source.

Programming the Remote

- The remote control is a multi-brand or a universal remote control. It can be programmed to operate most remote-controllable devices of other manufacturers.
Note that the remote control may not control all models of other brands.

Programming a code into a remote mode

1. Test your remote control.
To find out whether your remote control can operate the component without programming, turn on the component such as a VCR and press the corresponding the desired component button on the remote control, while illuminating on the selected component. Test the **POWER** buttons to see if the component responds properly. If not, the remote requires programming to operate the device.
2. Turn on the component to be programmed, then press the corresponding the desired component button on the remote control.
3. Simultaneously, press the **MENU** and **MUTE** buttons for 2 seconds, the button selected component lights on the remote control.
If you don't press any button for 20 seconds, the button selected component will turn off on the remote control. At a moment, you have to repeat from step 2.
4. There is a way to find the right code for the component.
Enter a code number using the number buttons on the remote. When pressing the button, the light is blinked at a time. Programming code numbers for the corresponding component can be found on the following pages. Again, if the code is correct, the device will turn off.
5. Press the **MENU** button to store the code. After blinking twice, this code is stored.
6. Test the remote control functions to see if the component responds properly. If not, repeat from step 2.

Programming Codes

VCRs

Brand	Codes	Brand	Codes	Brand	Codes	Brand	Codes
AIWA	034	KENWOOD	014 034 039 043	PORTLAND	108	TATUNG	039 043
AKAI	016 043 046 124		047 048	PULSAR	072	TEAC	034 039 043
	125 146	LG (GOLDSTAR)	001 012 013 020	QUARTZ	011 014	TECHNICS	031 033 070
AMPRO	072		101 106 114 123	QUASAR	033 066 075 145	TEKNIKA	019 031 033 034
ANAM	031 033 103	LLOYD	034	RCA	013 020 033 034		101
AUDIO DYNAMICS	012 023 039 043	LXI	003 009 013 014		040 041 062 063	THOMAS	034
BROKSONIC	035 037 129		017 034 101 106		107 109 140 144	TMK	006
CANON	028 031 033	MAGIN	040	REALISTIC	145 147	TOSHIBA	008 013 042 047
CAPEHART	108	MAGNAVOX	031 033 034 041		003 008 010 014		059 082 112 131
CRAIG	003 040 135		067 068		031 033 034 040	TOTEVISION	040 101
CURTIS MATHES	031 033 041	MARANTZ	012 031 033 067		053 054 101	UNITECH	040
DAEWOO	005 007 010 064		069	RICO	058	VECTOR RESEARCH	012
	065 108 110 111	MARTA	101	RUNCO	148	VICTOR	048
	112 116 117 119	MATSUI	027 030	SALORA	014	VIDEO CONCEPTS	012 034 046
DAYTRON	108	MEI	031 033	SAMSUNG	032 040 102 104	VIDEOSONIC	040
DBX	012 023 039 043	MEMOREX	003 010 014 031		105 107 109 112	WARDS	003 013 017 024
DYNATECH	034 053		033 034 053 072		113 115 120 122		031 033 034 040
ELECTROHOME	059		101 102 134 139		125		053 054 131
EMERSON	006 017 025 027	MGA	045 046 059	SANSUI	022 043 048 135	YAMAHA	012 034 039 043
	029 031 034 035	MINOLTA	013 020	SANYO	003 007 010 014	ZENITH	034 048 056
	036 037 046 101	MITSUBISHI	013 020 045 046		102 134		058 072 080 101
	129 131 138 153		049 051 059 061	SCOTT	017 037 112 129		
FISHER	003 008 009 010		151		131		
FUNAI	034	MTC	034 040	SEARS	003 008 009 010		
GE	031 033 063 072	MULTITECH	024 034		013 014 017 020		
	107 109 144 147	NEC	012 023 039 043		031 042 073 081		
GO VIDEO	132 136		048		101		
HARMAN KARDON	012 045	NORDMENDE	043	SHARP	031 054 149		
HITACHI	004 018 026 034	OPTONICA	053 054	SHINTOM	024		
	043 063 137 150	PANASONIC	066 070 074 083	SONY	003 009 031 052		
INSTANTREPLAY	031 033		133 140 145		056 057 058 076		
JCL	031 033	PENTAX	013 020 031 033		077 078 149		
JCPENNY	012 013 015 033		063	SOUNDESIGN	034		
	040 066 101	PHILCO	031 034 067	STS	013		
JENSEN	043	PHILIPS	031 033 034 054	SYLVANIA	031 033 034 059		
JVC	012 031 033 043		067 071 101		067		
	048 050 055 060	PILOT	101	SYMPHONIC	034		
	130 150 152	PIONEER	013 021 048	TANDY	010 034		

Programming Codes

CATV

Brand	Codes	Brand	Codes	Brand	Codes	Brand	Codes
ABC	003 004 039 042	GOLDEN CHANNEL	030		065 085 090	SPRUCER	047 078
	046 052 053	HAMLIN	049 050 055	PIONEER	034 051 052 063	STARCOM	002 004 008 009
AJIN	112	HITACHI	052 055		076	STARGATE	008 030
ANTRONIK	014	HOSPITALITY	070 077	POST NEWS WEEK	016	TADIRAN	030
ARCHER	005 007 014 024	JERROLD	002 003 004 008	PRUCER	059	TAEKWANG	110
CABLE STAR	026		009 010 052 069	PTS	011 048 071 072	TAIHAN	105
CENTURION	092		074		073 074	TANDY	017
CENTURY	007	LG (GOLDSTAR)	001 106 101 005	PULSAR	100	TEXSCAN	029
CITIZEN	007	M-NET	037	RCA	047	TOCOM	039 040 056
COLOUR VOICE	065 090	MACOM	033	REGAL	049 050	TOSHIBA	100
COMBANO	080 081	MAGNAVOX	010 012 064 079	REGENCY	057	UNIKA	007 014 024
COMTRONICS	019 030	MEMOREX	100	REMBRANT	025	UNITED CABLE	004 053
DIAMOND	023	MOVIE TIME	028 032	SAMSUNG	102 107 030 068	UNIVERSAL	005 007 014 024
EAGLE	020 030 040	NSC	015 028 038 071	SCIENTIFIC ATLANTA	003 011 041 042		026 027 032 035
EASTERN	057 062 066		073		043 045 046	VIEWSTAR	012 015 018 086
ELECTRICORD	032	OAK	016 031 037 053	SHERITECH	022		087 088 089
GE	072	PANASONIC	044 047	SIGNAL	030	ZENITH	100 114 060 093
GEMINI	008 022 025 054	PARAGON	100	SIGNATURE	052		
GI	052 074	PHILIPS	006 012 013 020	SL MARX	030		

HDSTB

Brand	Codes	Brand	Codes	Brand	Codes	Brand	Codes
ALPHASTAR DSR	123	FUJITSU	017 021 022 027	NEXTWAVE	028 124 125	STARCAST	041
AMPLICA	050		133 134	NORSAT	069 070	SUPER GUIDE	020 124 125
BIRDVIEW	051 126 129	GENERAL INSTRUMENT	003 004 016 029	PACE SKY SATELLITE	143	TEECOM	023 026 075 087
CHANNEL MASTER	013 014 015 018		031 059 101	PANASONIC	060 142		088 090 107 130
	036 055	HITACHI	139 140	PANSAT	121		137
CHAPARRAL	008 009 012 077	HOUSTON TRACKER	033 037 039 051	PERSONAL CABLE	117	TOSHIBA	002 127
CITOH	054		057 104	PHILIPS	071	UNIDEN	016 025 042 043
CURTIS MATHES	050 145	HUGHES	068	PICO	105		044 045 048 049
DRAKE	005 006 007 010	JANIEL	060 147	PRESIDENT	019 102		078 079 080 086
	011 052 112 116	JERROLD	061	PRIMESTAR	030 110 111		101 135 136
	141	KATHREIN	108	PROSAT	072	VIEWSTAR	115
DX ANTENNA	024 046 056 076	LEGEND	057	RCA	066 106	WINEGARD	128 146
ECHOSTAR	038 040 057 058	LG	001	REALISTIC	043 074	ZENITH	081 082 083 084
	093 094 095 096	LUTRON	132	SAMSUNG	123		091 120
	097 098 099 100	LUXOR	062 144	SATELLITE SERVICE CO	028 035 047 057		
	122	MACOM	010 059 063 064		085		
ELECTRO HOME	089		065	SCIENTIFIC ATLANTA	032 138		
EUROPLUS	114	MEMOREX	057	SONY	103		

Audio

Brand	Codes	Brand	Codes	Brand	Codes	Brand	Codes
AIWA	014 028 070 096	INKEL	152 153 154 155	MCS	104	SHARP	072 082 117 119
	125 129 139 229		157 158 159 160	MEMOREX	107		156 184 199 200
	230		189 207 222 224	NAD	046		206 209
AKAI	163		225 226 227 243	ONKYO	013 040 041 047	SHERWOOD	005 006 158
ANAM	003 014 017 023		247		048 056 057 132	SONY	044 045 109 114
	059 106 189 216	JVC	004 013 141		133 140		118 126 248 249
	217 235 236	KEC	185 186 187	OPTIMUS	158	TAEKWANG	012 020 073 074
BURMECTER	252	KENWOOD	038 050 067 089	PANASONIC	007 033 064 113		076 077 105 161
CARVER	086		170 171 197 206		142 220 241 251		162 163 164 165
CLARION	199		215 222	PENNEY	104		166 167 168 169
DAEWOO	027 053 060 084	KOHEL	030	PHILIPS	026 112 143		205 231 233 242
	102 148 198 221	NAD	045 046	PIONEER	039 042 043 063	TEAC	010 085 106 136
DENON	015 075 130 143	LOTTE	014 016 036 098		065 091 093 094		185 187 237
FANTASIA	071		100 172 173 174		115 123 127 250	TECHNICS	101 113 128 134
FINEARTS	022		175 176 177 178	QUASAR	113		147 218
FISHER	089 099		179 180 181 183	RCA	080	TOSHIBA	137
LG(GOLDSTAR)	001 021 024 029		201 202 208 213	RCX	092	THE	061
	087 107 108 110		214 219 223 232	REALISTIC	103 106	VICTOR	088 131
	190 191 192 210		238 240	SAMSUNG	124 145 146 182	WARDS	089
	211 212 239	LXI	103		193 194 195 203	YAMAHA	054 055 066 092
HAITAI	034 035 188 222	MAGNAVOX	111		204 244 245 246		199
HARMAN/KARDON	068	MARANTZ	002 018 020 025	SANSUI	011 135 138 144		
INKEL	037 058 062 069		034 041 081 090	SANYO	019 083 234		
	078 079 095 121		097 112	SCOTT	106 186		
	122 149 150 151	MCINTOSH	049	SHARP	031 032 051 052		

DVD

Brand	Codes	Brand	Codes	Brand	Codes	Brand	Codes
APEX DIGITAL	022	MAGNAVOX	013	PHILIPS	013	SONY	007
DENON	020 014	MARANTZ	024	PIONEER	004 026	THOMPSON	005 006
GE	005 006	MITSUBISHI	002	PROCEED	021	TOSHIBA	019 008
HARMAN KARDON	027	NAD	023	PROSCAN	005 006	YAMAHA	009 018
JVC	012	ONKYO	008 017	RCA	005 006	ZENITH	010 016 025
LG	001 010 016 025	PANASONIC	003 009	SAMSUNG	011 015		

Troubleshooting Checklist

No picture & No sound	<ul style="list-style-type: none"> • Check whether the TV is turned on. • Is the power cord inserted into wall power outlet? • Test the wall power outlet, plug another product's power cord into the outlet where the TV's power cord was plugged in.
Picture OK & No sound	<ul style="list-style-type: none"> • Press the VOLUME (►) button. • Sound muted? Press MUTE button.
The remote control doesn't work	<ul style="list-style-type: none"> • Check to see if there is any object between the TV and the remote control causing obstruction. • Are batteries installed with correct polarity (+ to +, - to -)? (Refer to p.6) • Correct remote operating mode set: TV, VCR etc.? • Install new batteries. (Refer to p.6)
Picture appears slowly after switching on	<ul style="list-style-type: none"> • This is normal, the image is muted during the TV startup process. Please contact your service center, if the picture has not appeared after five minutes.
No or poor color or poor picture	<ul style="list-style-type: none"> • Select Color in the PICTURE menu and press the VOLUME (►) button. (Refer to p.20) • Keep a sufficient distance between the TV and the VCR. • Activate any function to restore the brightness of the picture. (If still picture is on the screen for more than 5 minutes, the screen gets dark.)
Horizontal/vertical bars or picture shaking	<ul style="list-style-type: none"> • Check for local interference such as an electrical appliance or power tool.
No output from one of the speakers	<ul style="list-style-type: none"> • Adjust Balance in the SOUND menu. (Refer to p.22)
Unusual sound from inside the TV	<ul style="list-style-type: none"> • A change in ambient humidity or temperature may result in an unusual noise when the plasma display is turned on or off and does not indicate a fault with the TV.

Replacing the Lamp

Lamp unit replacement

* You must replace the lamp when:

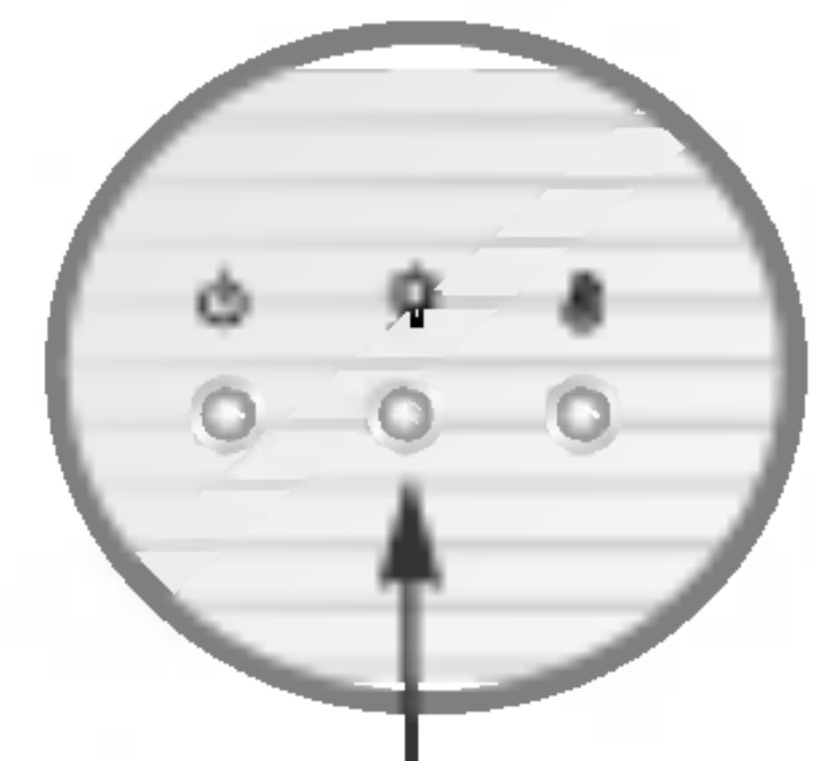
The image gets darker or starts to deteriorate.

The lamp indicator is orange.

The lamp indicator is red.

The message "Lamp Life Over" appears on the screen when turning the TV on.

<Front panel of the TV>



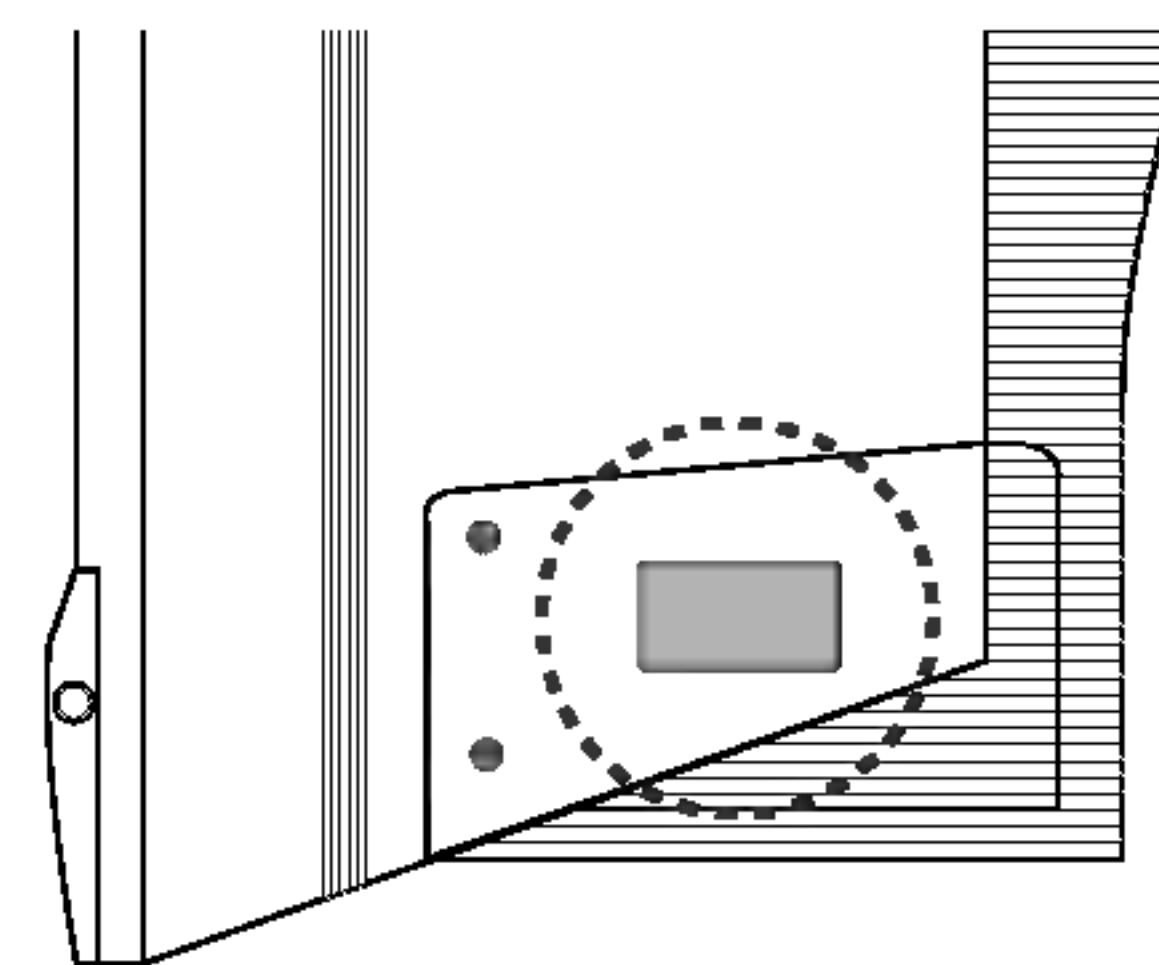
Lamp indicators

Be careful when replacing lamp

- Turn off the power with the remote control. In 3 minutes, press the power button to off on the front panel and unplug the power cord. (For 2 minutes, cooling fan works after turning off power)
- Allow the lamp to cool for 30 minutes before replacing it.
- Replace only with the same type lamp from an LG Electronics Service Center. Using another lamp type may cause damage to the TV and lamp.
- Pull out the lamp only when replacing the lamp.
- Keep the lamp unit out of reach of children and heat sources such as radiators, stoves.
- To reduce the risk of fire, lamp shall not be exposed to liquids or foreign material.
- Do not place the lamp near any heat source.
- Make sure the new lamp is securely tightened with screws. If not, the image may be dark or there could be a risk of fire.
- Never touch the lamp unit glass or otherwise it will become dirty.

To obtain a replacement Lamp unit

Lamp model number is on the lamp cover. Check the lamp model and then locate an LG Electronics service center. Using and other type of lamp may cause damage to the TV or lamp.



Lamp unit disposal

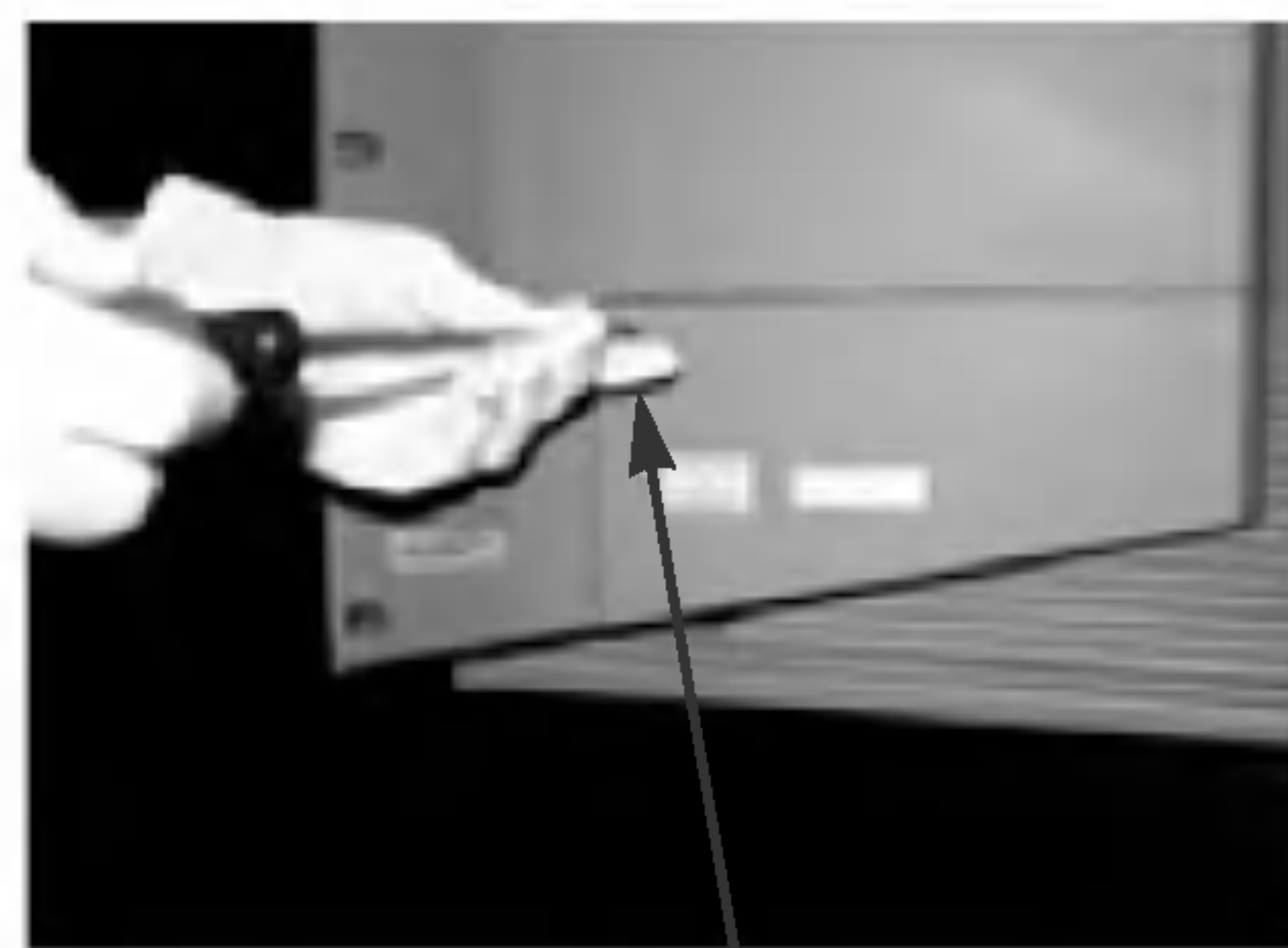
LG Electronics is provided with an interlock switch to reduce the risk of excessive ultraviolet radiation. Dispose of the used lamp by returning it to the LG Electronics service center.

Replacing the Lamp

1. Turn off the power on the remote control to ST-BY. In 3 minutes, press the power button to off on the front panel and unplug the power cord. (Allow the lamp to cool for 30 minutes before replacing it.)
2. Remove the 2 retaining screws on the lamp cover with a "+" type screwdriver then separate the lamp cover from the TV.
3. Remove the two retaining screws on the lamp case by using "+" type screwdriver.
4. Lift up the fixed wire handle on the lamp.
5. Pull out the knob slowly and remove the lamp case.
6. Insert the new lamp gently into the correct position. Make sure it is inserted correctly.
7. Tighten the screws you removed in step 3.
8. Replace the lamp cover and tighten the cover screws. (If the lamp cover is open, the lamp indicator flashes green and the TV will not turn on.)

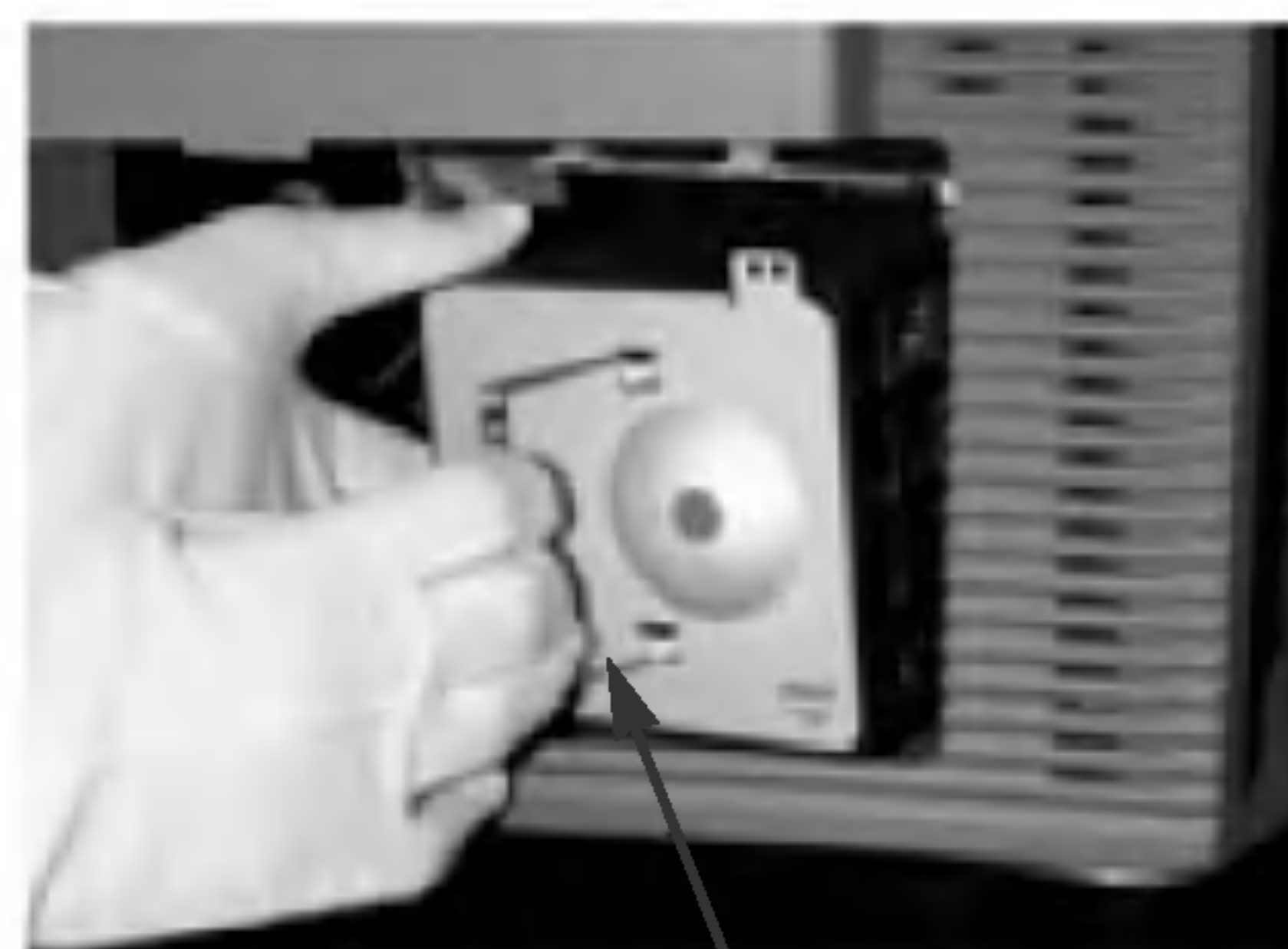
Notes:

- Only use LG approved lamp replacement.
- Using incorrect type of lamp may cause damage to the TV or lamp.
- Make sure the lamp cover is securely fastened. If the lamp cover is open, the TV will not turn on.



lamp case Screws

Screws



Knob

Reset Lamp use time

- * You must reset lamp time on the menu after replacing the lamp.
- * In some models, the lamp time may not be reset.

1. Press the **OK** or **ENTER** button on the front panel and **MUTE** button on the remote control simultaneously (For Appox. 5 seconds).
2. Press the **▶** or **OK** button. Lamp use time will be reset.



Memo

Product Specifications

MODELS	44SZ8R-LD
Width (inches / mm)	40.0 / 1014.0
Height (inches / mm)	30.0 / 741.5
Depth (inches / mm)	14.3 / 364.6
Weight (pounds / kg)	50.7 / 23.0
Power requirement	AC100-240V, 50/60Hz
Television System	NTSC, PAL-M/N
Program Coverage	VHF 2 ~ 13, UHF 14 ~ 69, CATV 1 ~ 125
External Antenna Impedance	75 Ω
Supplied Accessories	Remote control, 2 size AA batteries, Owner's manual

MODELS	52SX4R-LC	62SX4R-LC
Width (inches / mm)	55.7 / 1416.0	63.3 / 1610.0
Height (inches / mm)	35.5 / 902.0	40.3 / 1025.0
Depth (inches / mm)	15.7 / 399.0	19.5 / 496.0
Weight (pounds / kg)	84.0 / 38.5	132.2 / 60.0
Power requirement	AC100-240V, 50/60Hz	
Television System	NTSC, PAL-M/N	
Program Coverage	VHF 2 ~ 13, UHF 14 ~ 69, CATV 1 ~ 125	
External Antenna Impedance	75 Ω	
Supplied Accessories	Remote control, 2 size AA batteries, Owner's manual	

- The specifications shown above may be changed without notice for quality improvement.

