



PLASMA TV OWNER'S MANUAL

32PC5RV

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.

WARNING / CAUTION



WARNING / CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



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



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



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

WARNING/CAUTION

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

NOTE TO CABLE/TV INSTALLER

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

WARNING / CAUTION

To prevent fire or shock hazards, do not expose this product to rain or moisture.

FCC NOTICE

Class B digital device

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

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

CAUTION

Do not attempt to modify this product in any way without written authorization from LG Electronics. Unauthorized modification could void the user’s authority to operate this product

SAFETY INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

Important safety instructions shall be provided with each apparatus. This information shall be given in a separate booklet or sheet, or be located before any operating instructions in an instruction for installation for use and supplied with the apparatus.

This information shall be given in a language acceptable to the country where the apparatus is intended to be used. The important safety instructions shall be entitled “Important Safety Instructions”. The following safety instructions shall be included where applicable, and, when used, shall be verbatim as follows. Additional safety information may be included by adding statements after the end of the following safety instruction list. At the manufacturer’s option, a picture or drawing that illustrates the intent of a specific safety instruction may be placed immediately adjacent to that safety instruction:

Read these instructions.

Keep these instructions.

Heed all warnings.

Follow all instructions.



- 1** Do not use this apparatus near water.



- 2** Clean only with dry cloth.



- 3** Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.



- 4** Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



- 5** Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.



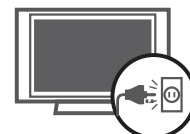
- 6** Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.



- 7** Only use attachments/accessories specified by the manufacturer.



- 8** Unplug this apparatus when unused for long periods of time.



- 9 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



S3125A

- 10 Never touch this apparatus or antenna during a thunder or lightning storm.
- 11 Do not allow a impact shock or any objects to fall into the product, and do not drop onto the screen with something.
- 12 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has exposed to rain or moisture, does not operate normally, or has been dropped.



- 13 **CAUTION** concerning the Power Cord : Most appliances recommend they be placed upon a dedicated circuit; that is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain.
- Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use

of the appliance, and have the cord replaced with an exact replacement part by an authorized servicer. Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance.



- 14 **Outdoor use marking :**
WARNING - To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

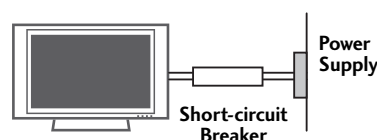


- 15 **Wet Location Marking :** Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on or over apparatus.



16 **GROUNDING**

Ensure that you connect the earth ground wire to prevent possible electric shock. If grounding methods are not possible, have a qualified electrician install a separate circuit breaker. Do not try to ground the unit by connecting it to telephone wires, lightening rods, or gas pipes.



- 17 **DISCONNECTING DEVICE FROM MAINS**
Mains plug is the disconnecting device. The plug must remain readily operable.

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FEATURES OF THIS TV



LG's own special digital image generator, consisting of a full digital image processor, six different main picture quality factors.



With HDMI CEC support of LG's audio/video device connected to the HDMI (high-definition multimedia interface), LG TV with this logo works easily with one remote control.



HDMI™, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing.”

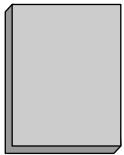
PREPARATION

ACCESSORIES

Ensure that the following accessories are included with your product. If an accessory is missing, please contact the dealer where you purchased the product.

User must use shielded signal interface cables (D-sub 15 pin cable) with ferrite cores to maintain standard compliance for the product.

The accessories can be different from the figures shown here.



Owner's Manual



CD Manual



Remote Control

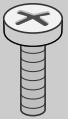


Batteries

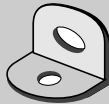


Power Cord

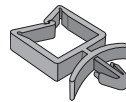
This feature is not available for all models



2- TV Bracket Bolts
(Refer to p.11)



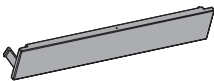
2- TV Brackets,
2- Wall Brackets
(Refer to p.11)



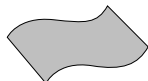
Power Cord Holder
(Refer to p.11)



4-Bolts for stand assembly
(Refer to p.10)



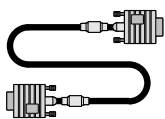
Protection Cover
(Refer to p.12)



Polishing Cloth

- * Slightly wipe stained spot on the exterior only with the polishing cloth for the product exterior if there is stain or fingerprint on surface of the exterior.
- * Do not wipe roughly when removing stain. Please be cautions of that excessive pressure may cause scratch or discoloration.

Option Extras

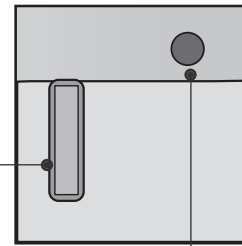
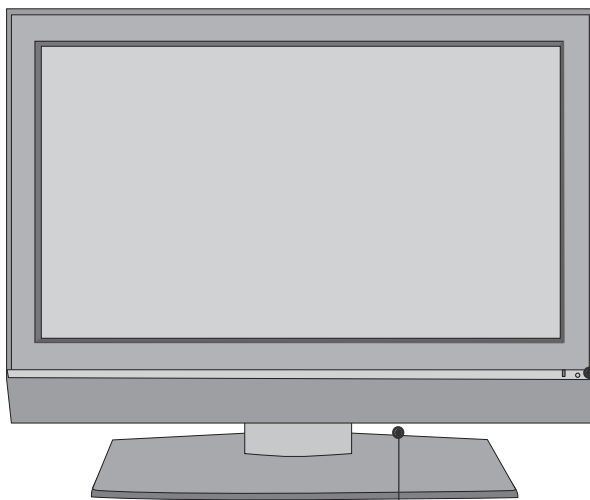


D-sub 15 pin Cable

PREPARATION

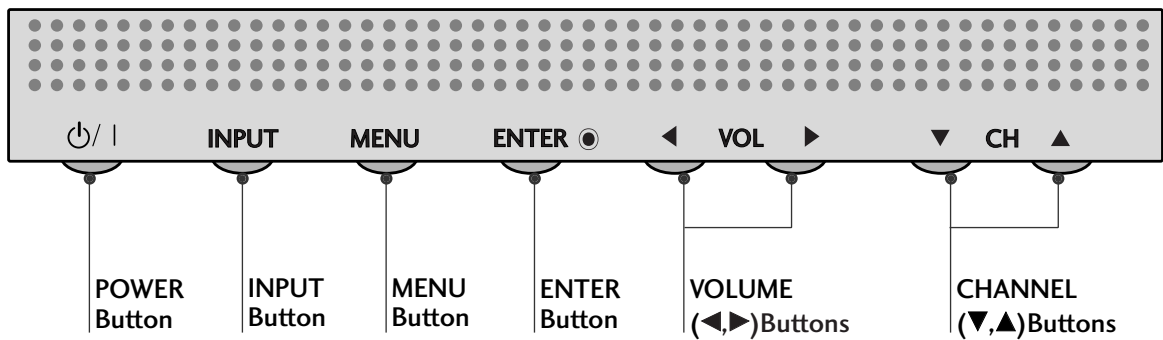
FRONT PANEL INFORMATION

- Here shown may be somewhat different from your TV.
- **NOTE:** If your product has a protection tape attached, remove the tape.
And then wipe the product with a cloth (If a polishing cloth is included with your product, use it).

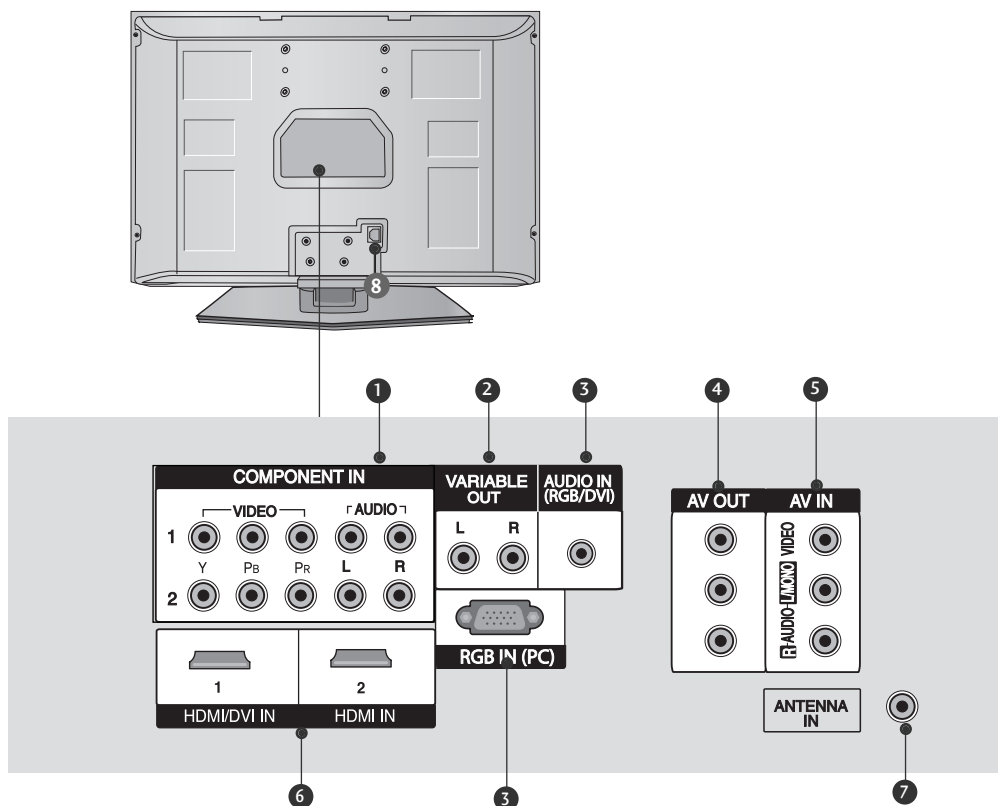


Remote Control Sensor

Power/Standby Indicator
Illuminates red in standby mode.
Illuminates green when the set is switched on.



BACK PANEL INFORMATION



1 COMPONENT IN 1/2

Connect a component video/audio device to these jacks.

2 VARIABLE OUT

Connect an external amplifier or add a subwoofer to your surround sound system.

3 RGB IN (PC)

Connect the output from a PC.

AUDIO IN (RGB/DVI)

Connect the audio from a PC or DTV.

4 AV OUT

Connect second TV or monitor to the AV OUT socket on the set

5 AV IN

Connect audio/video output from an external device to these jacks.

6 HDMI/DVI IN 1, HDMI IN 2

Connect a HDMI signal to HDMI IN.
Or DVI(VIDEO)signal to HDMI/DVI port with DVI to HDMI cable.

7 ANTENNA IN

Connect over-the-air signals to this jack.

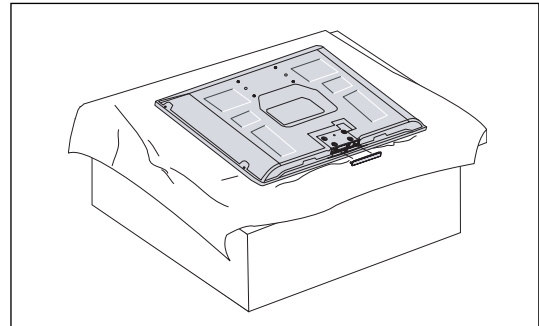
8 Power Cord Socket

This TV operates on an AC power. The voltage is indicated on the Specifications page. Never attempt to operate the TV on DC power.

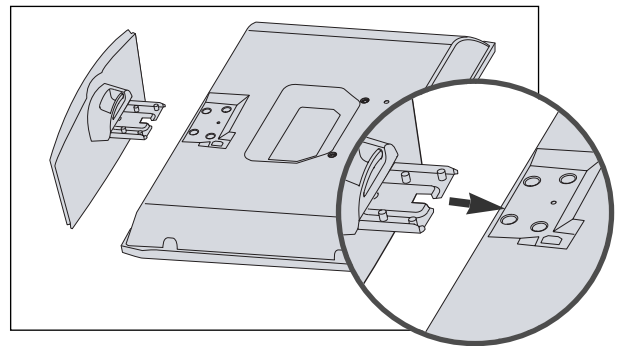
PREPARATION

STAND INSTALLATION

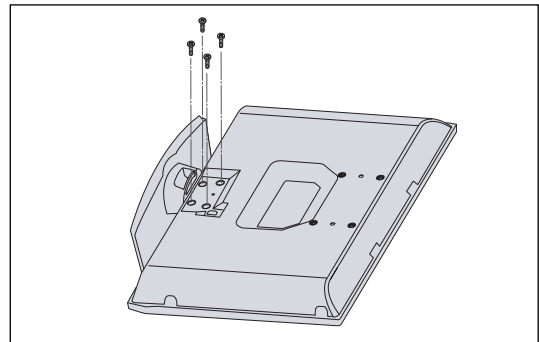
- 1 Carefully place the product screen side down on a cushioned surface that will protect product and screen from damage.



- 2 Assemble the product stand with the product as shown.

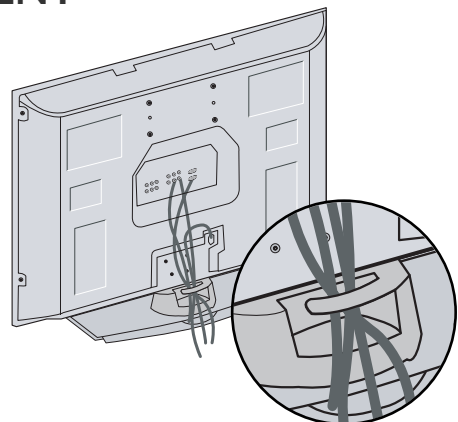


- 3 Install the 4 bolts securely, in the back of the product in the holes provided.



BACK COVER FOR WIRE ARRANGEMENT

Arrange the cables as shown picture.

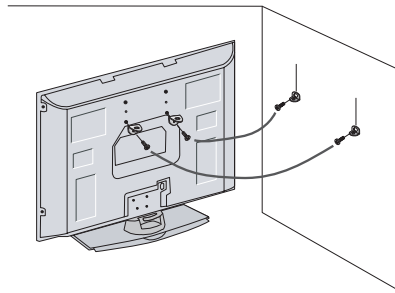


ATTACHING THE TV TO A WALL

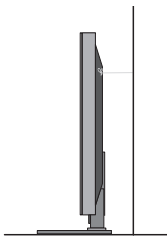
- This feature is not available for all models.
- Here shown may be somewhat different from your TV.

We recommend that you set up the TV close to a wall so it cannot fall over if pushed backwards. Additionally, we recommend that the TV be attached to a wall so it cannot be pulled in a forward direction, potentially causing injury or damaging the product.

Caution: Please make sure that children don't climb on or hang from the TV.



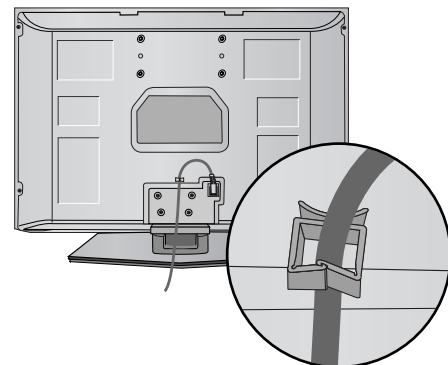
- Insert the eye-bolts or TV brackets and bolts to tighten the product to the wall as shown in the picture.
 - * If your product has the bolts in the eye-bolts position before inserting the bolts, loosen the bolts.
- Secure the wall brackets with the bolts (not provided as parts of the product, must purchase separately) to the wall. Match the height of the bracket that is mounted on the wall to the holes in the product.
- Ensure the eye-bolts or brackets are tightened securely.



- Use a sturdy rope (not provided as parts of the product, must purchase separately) to tie the product. It is safer to tie the rope so it becomes horizontal between the wall and the product.

USE POWER CORD HOLDER

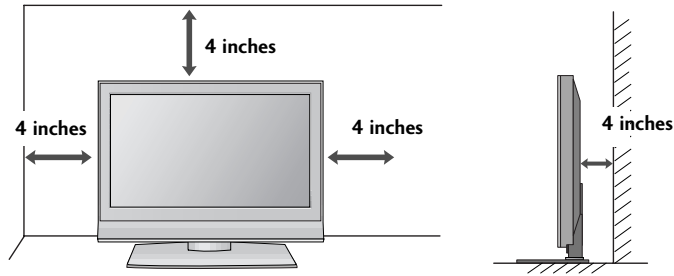
After connecting the power cord to the AC input terminal, remove the bolt at the hole on the back cover and fix the power cord at the rear side of the TV by using the bracket for fixing the power cord.



PREPARATION

DESKTOP PEDESTAL INSTALLATION

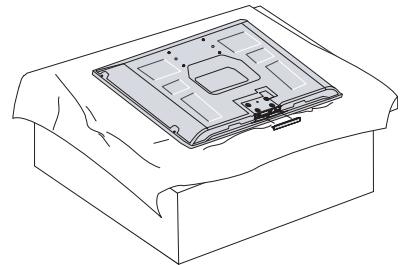
For proper ventilation, allow a clearance of 4 inches on all four sides from the wall.



CAUTION ► Ensure adequate ventilation by following the clearance recommendations.

PROTECTION COVER

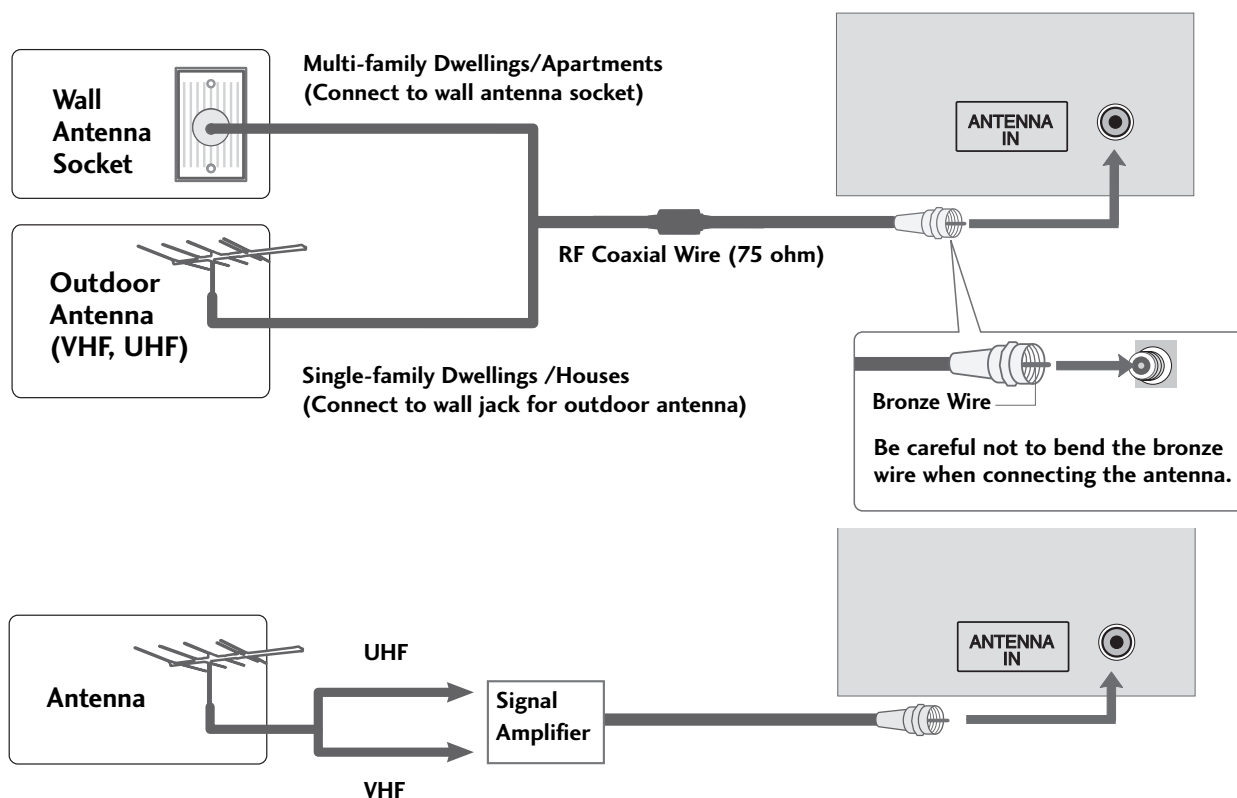
When installing the wall-mounted unit, use the protection cover for desk-type stand installation.



ANTENNA OR CABLE CONNECTION

Wall Antenna Socket or Outdoor Antenna 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.
- If the antenna is not installed properly, contact your dealer for assistance.

! NOTE

- ▶ The TV will let you know when the analog and cable scans are complete.

EXTERNAL EQUIPMENT SETUP

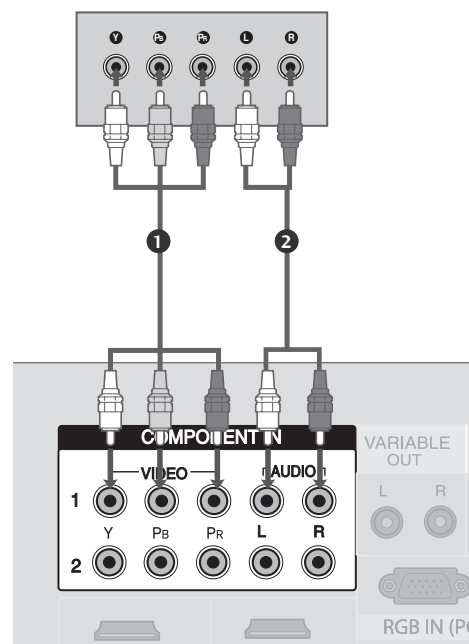
- To prevent the equipment damage, never plug in any power cords until you have finished connecting all equipment.

HD RECEIVER SETUP

When connecting with a component cable

1. How to connect

- 1 Connect the video outputs (Y, PB, PR) of the digital set top box to the **COMPONENT IN VIDEO 1** jacks on the set. Match the jack colors (Y = green, PB = blue, and PR = red).
- 2 Connect the audio output of the digital set-top box to the **COMPONENT IN AUDIO 1** jacks on the set.



2. How to use

- Turn on the digital set-top box.
(Refer to the owner's manual for the digital set-top box.)
- Select **Component 1** input source with using the **INPUT** button on the remote control.
- If connected to **COMPONENT IN2** input, select **Component 2** input source.

Signal	Component 1, 2	HDMI1/DVI, HDMI2
480i	Yes	No
480p	Yes	Yes
720p	Yes	Yes
1080i	Yes	Yes

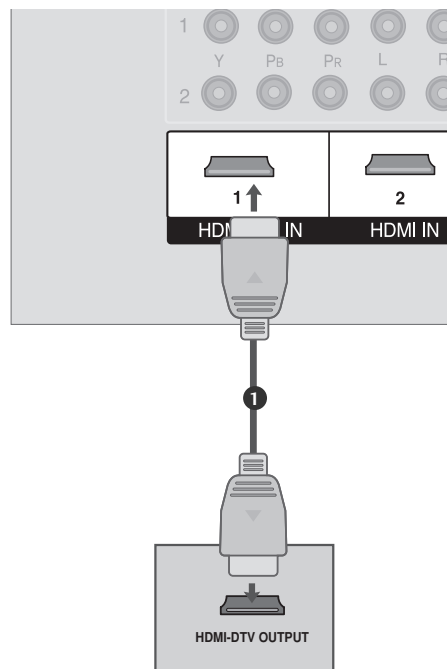
Y, CB/PB, CR/PR

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
720 x 480i	15.73 15.75	59.94 60.00
720 x 480p	31.47 31.5	59.94 60.00
1280 x 720p	44.96 45.00	59.94 60.00
1920 x 1080i	33.72 33.75	59.94 60.00

When connecting with a HDMI cable

1. How to connect

- 1 Connect the digital set-top box to **HDMI/DVI IN 1** or **HDMI IN 2** jack on the set.
- 2 No separated audio connection is necessary. HDMI supports both audio and video.



2. How to use

- Turn on the digital set-top box.
(Refer to the owner's manual for the digital set-top box.)
- Select **HDMI1** or **HDMI2** input source with using the **INPUT** button on the remote control.

Supported Display Resolution (HDMI-DTV mode)

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
720x480p	31.47	59.94
	31.50	60.00
1280x720p	44.96	59.94
	45.00	60.00
1920x1080i	33.72	59.94
	33.75	60.00

EXTERNAL EQUIPMENT SETUP

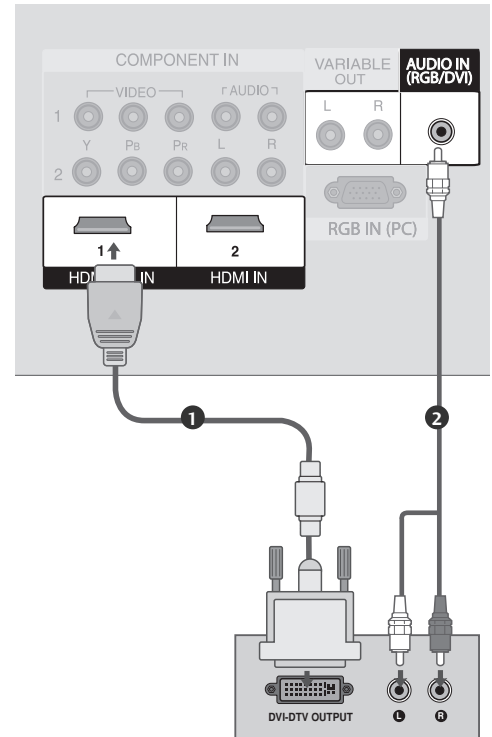
When connecting with a HDMI to DVI cable

1. How to connect

- ❶ Connect the DVI output of the digital set-top box to the **HDMI/DVI IN 1** jack on the set.
- ❷ Connect the audio output of the digital set-top box to the **AUDIO IN (RGB/DVI)** jack on the set.

2. How to use

- Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
- Select **HDMI1** input source with using the **INPUT** button on the remote control.



DVD SETUP

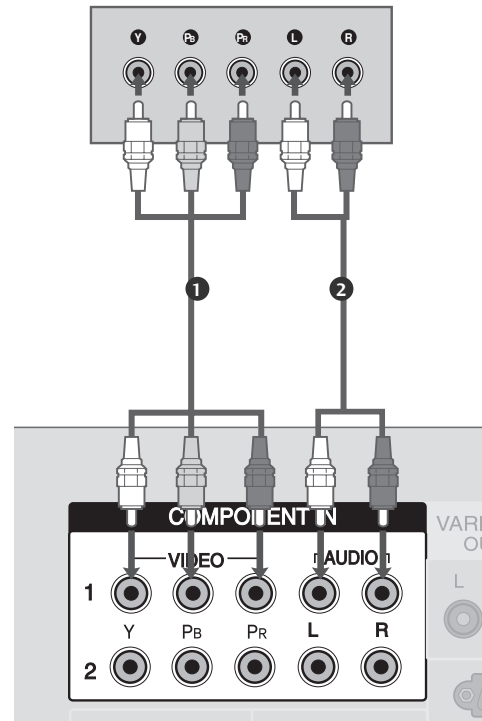
When connecting with a component cable

1. How to connect

- 1 Connect the video outputs (Y, PB, PR) of the DVD to the **COMPONENT IN VIDEO1** jacks on the set.
Match the jack colors
(Y = green, PB = blue, and PR = red).
- 2 Connect the audio outputs of the DVD to the **COMPONENT IN AUDIO1** jacks on the set.

2. How to use

- Turn on the DVD player, insert a DVD.
- Select **Component 1** input source with using the **INPUT** button on the remote control.
- If connected to **COMPONENT IN 2** input, select **Component 2** input source.
- 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	Pb	Pr

EXTERNAL EQUIPMENT SETUP

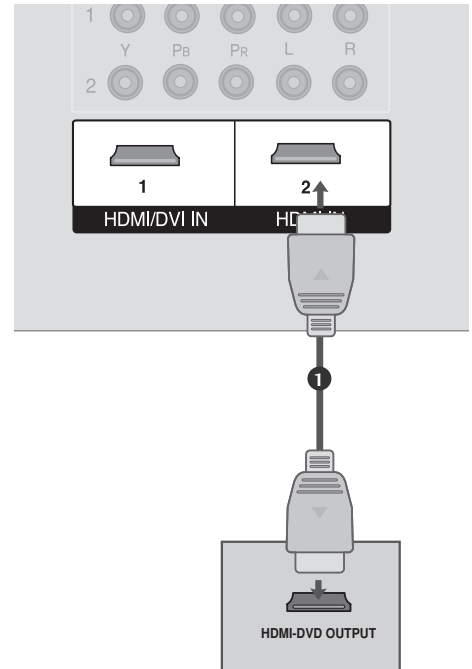
When connecting HDMI cable

1. How to connect

- 1 Connect the HDMI output of the DVD to the **HDMI/DVI IN 1** or **HDMI IN 2** jack on the set.
- 2 No separated audio connection is necessary.
HDMI supports both audio and video.

2. How to use

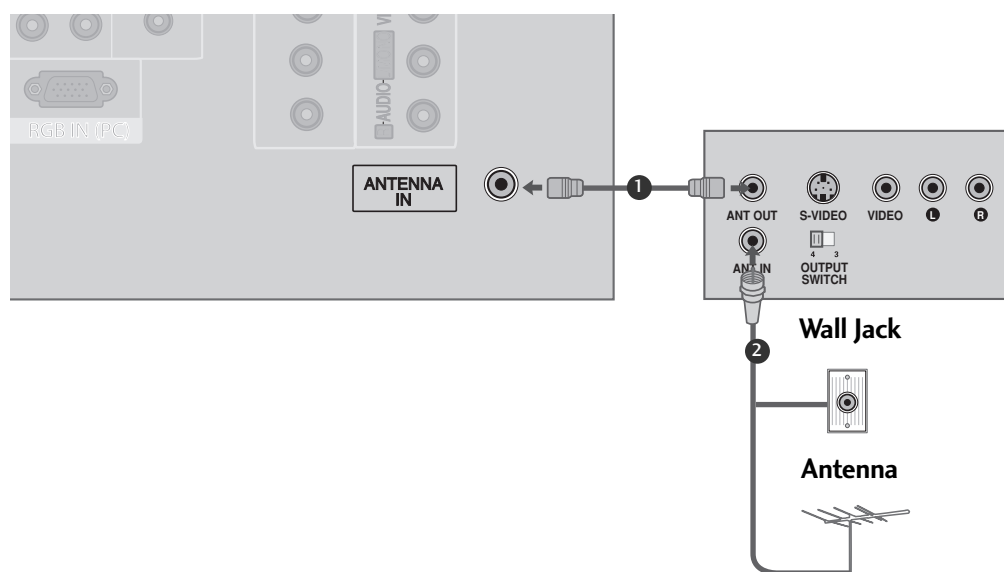
- Select **HDMI1** or **HDMI2** input source with using the **INPUT** button on the remote control.
- Refer to the DVD player's manual for operating instructions.



VCR SETUP

- To avoid picture noise (interference), leave an adequate distance between the VCR and TV
- If the 4:3 picture format is used; the fixed images on the sides of the screen may remain visible on the screen. This phenomenon is common to all manufactures and in consequence the manufactures warranty does not cover the product bearing this phenomenon.

When connecting with an antenna



1. How to connect

- 1 Connect the RF antenna out socket of the VCR to the **ANTENNA IN** socket on the set.
- 2 Connect the antenna cable to the RF antenna in socket of the VCR.

2. How to use

- Set VCR output switch to 3 or 4 and then tune TV to the same channel number.
- Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)

EXTERNAL EQUIPMENT SETUP

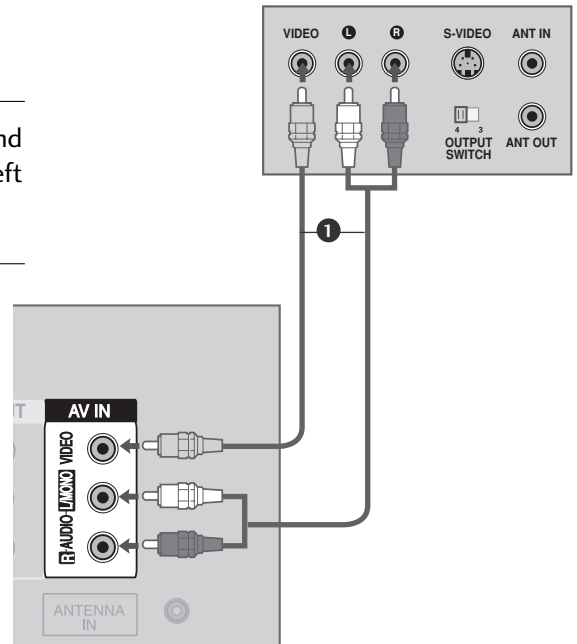
When connecting with a RCA cable

1. How to connect

- 1 Connect the **AUDIO/VIDEO** jacks between TV and VCR. Match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red)

2. How to use

- Insert a video tape into the VCR and press **PLAY** on the VCR. (Refer to the VCR owner's manual.)
- Select **AV** input source with using the **INPUT** button on the remote control.



! NOTE

- If you have a mono VCR, connect the audio cable from the VCR to the **AUDIO L/MONO** jack of the set.

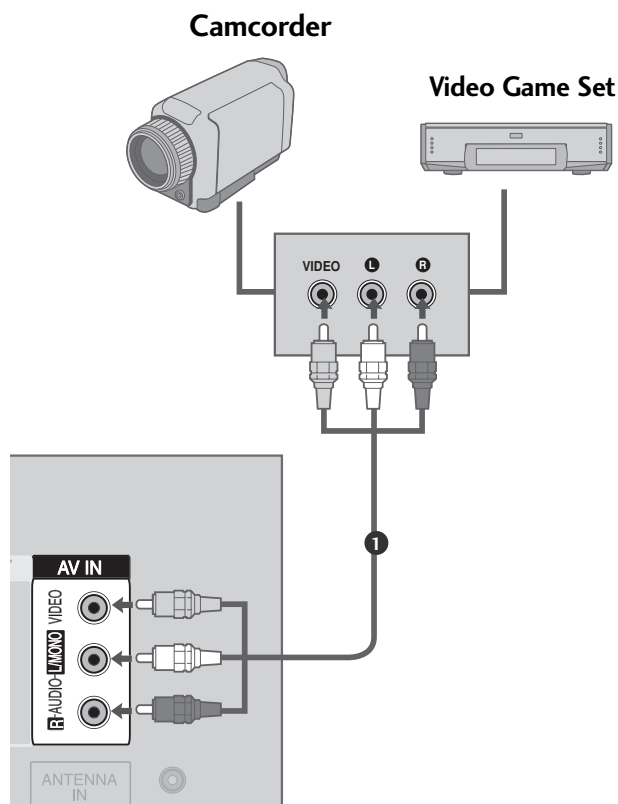
OTHER A/V SOURCE SETUP

1. How to connect

- 1 Connect the **AUDIO/VIDEO** jacks between TV and external equipment. Match the jack colors. (Video = yellow, Audio Left = white, and Audio Right = red)

2. How to use

- Select **AV** input source with using the **INPUT** button on the remote control.
- Operate the corresponding external equipment.



EXTERNAL EQUIPMENT SETUP

PC SETUP

This TV provides Plug and Play capability, meaning that the PC adjusts automatically to the TV's settings.

When connecting with a D-sub 15 pin cable

1. How to connect

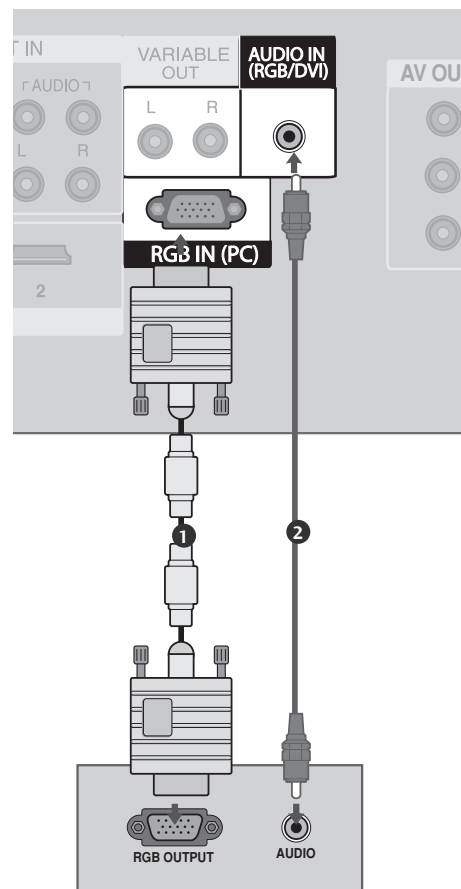
- 1 Connect the RGB output of the PC to the **RGB IN (PC)** jack on the set.
- 2 Connect the PC audio output to the **AUDIO IN (RGB/DVI)** jack on the set.

2. How to use

- Turn on the PC and the set.
- Select **RGB PC** input source with using the **INPUT** button on the remote control.
- This TV doesn't support DVI-PC mode.

! NOTE

- ▶ To get the the best picture quality, adjust the PC graphics card to 852x480, 60Hz.
- ▶ 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 output to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the Picture 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.
- ▶ Avoid keeping a fixed image on the screen for a long period of time. The fixed image may become permanently imprinted on the screen.
- ▶ The synchronization input form for Horizontal and Vertical frequencies is separate.



Supported Display Resolution (RGB PC mode)

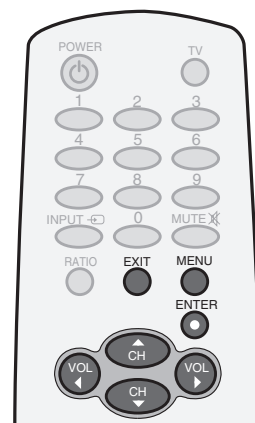
Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
640x350	31.468	70.09
720x400	31.469	70.08
640x480	31.469	59.94
848x480	31.5	60.00
852x480	31.5	60.00
800x600	37.879	60.31
1024x768	48.363	60.00

SCREEN SETUP FOR PC MODE

Auto Configure (RGB PC mode only)

Automatically adjusts picture position and minimizes image shaking.

Although the image is still not correct, your set is functioning properly but needs further adjustment.



- 1 Press the **MENU** button and then use ▲ or ▼ button to select the **Picture** menu.

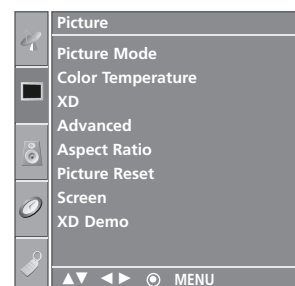
- 2 Press the ► button and then use ▲ or ▼ button to select **Screen**.

- 3 Press the ► button and then use ▲ or ▼ button to select **Auto config.**.

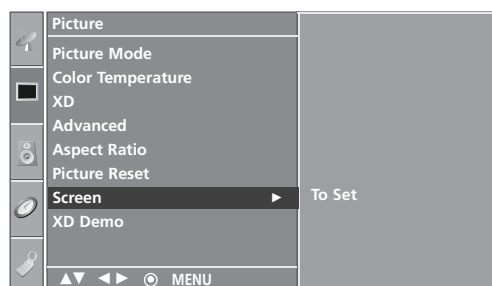
- 4 Press the ► button to start **Auto config.**.
 - When **Auto config.** has finished, **OK** will be shown on screen.
 - If the position of the image is still not correct, try Auto adjustment again.

- 5 If picture needs to be adjusted more after Auto adjustment in RGB PC, you can adjust the **Manual config.**.

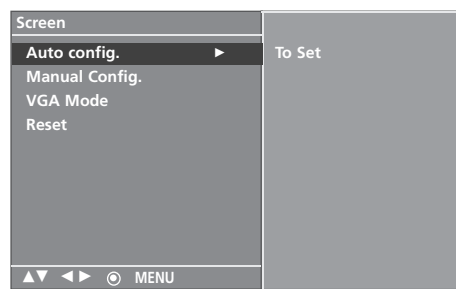
- 6 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



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EXTERNAL EQUIPMENT SETUP

Adjustment for screen Phase, Clock, Position

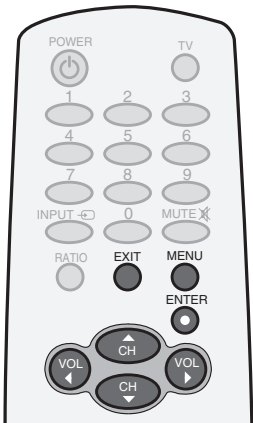
If the picture isn't clear after auto adjustment and especially if characters are still trembling, adjust the picture phase manually.

To correct the screen size, adjust Clock.

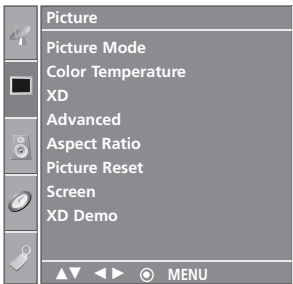
This function works in the following mode : RGB PC, COMPONENT (480i/480p/720p/1080i), HDMI (480p/720p/1080i). It's not available to use Phase, Clock function in COMPO- NENT (480i/480p/720p/1080i), HDMI (480p/720p/1080i).

Clock This function is to minimize any vertical bars or stripes visible on the screen background. And the horizontal screen size will also change.

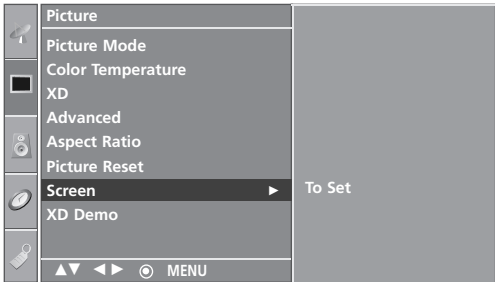
Phase This function allows you to remove any horizontal noise and clear or sharpen the image of characters.



1 Press the **MENU** button and then use ▲ or ▼ button to select the **Picture** menu.



2 Press the ► button and then use ▲ or ▼ button to select **Screen**.



3 Press the ► button and then use ▲ or ▼ button to select **Manual config.**.



4 Press the ► button and then use ▲ or ▼ button to select **Phase, Clock, H-position or V-position**.

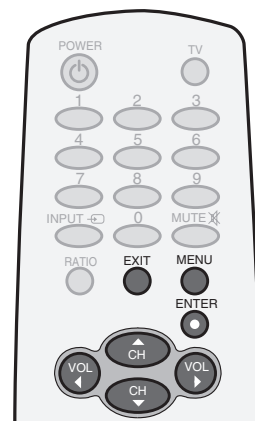
5 Press the ◀ or ▶ button to make appropriate adjustments.

6 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.

Selecting Wide VGA mode

To see a normal picture, match the resolution of RGB mode and selection of VGA mode.

This function works in the following mode: RGB PC mode.



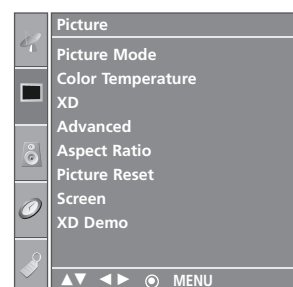
- 1 Press the **MENU** button and then use ▲ or ▼ button to select the **Picture** menu.

- 2 Press the ► button and then use ▲ or ▼ button to select **Screen**.

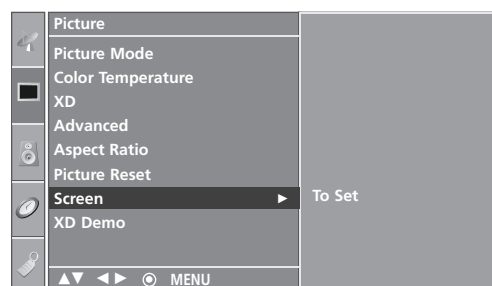
- 3 Press the ► button and then use ▲ or ▼ button to select **VGA Mode**.

- 4 Press the ► button and then use ▲ or ▼ button to select the desired VGA resolution.

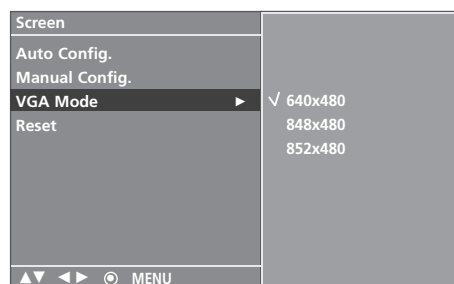
- 5 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



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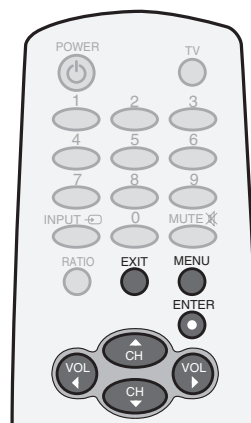
3 4

EXTERNAL EQUIPMENT SETUP

Initializing (Reset to original factory settings)

This function operates in current mode.

To initialize the adjusted value.



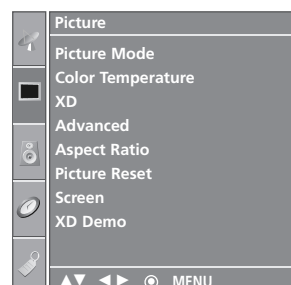
1 Press the **MENU** button and then use ▲ or ▼ button to select the **Picture** menu.

2 Press the ► button and then use ▲ or ▼ button to select **Screen**.

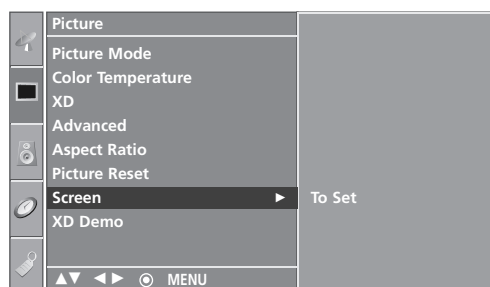
3 Press the ► button and then use ▲ or ▼ button to select **Reset**.

- You can initialize Clock, Phase, H/V-Position, PIP size, PIP position.

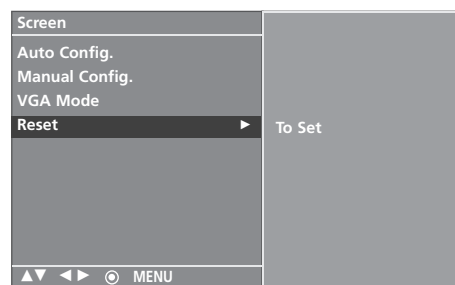
4 Press the ► button.



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AV OUT SETUP

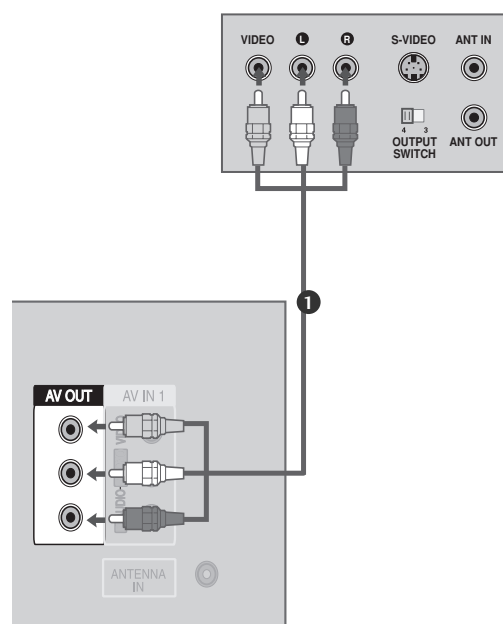
The TV has a special signal output capability which allows you to hook up the second TV or monitor.

1. How to connect

- 1 Connect the second TV or monitor to the TV's **AV OUT** jacks.
- 2 See the Operating Manual of the second TV or monitor for further details regarding that device's input settings.

! NOTE

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



EXTERNAL STEREO

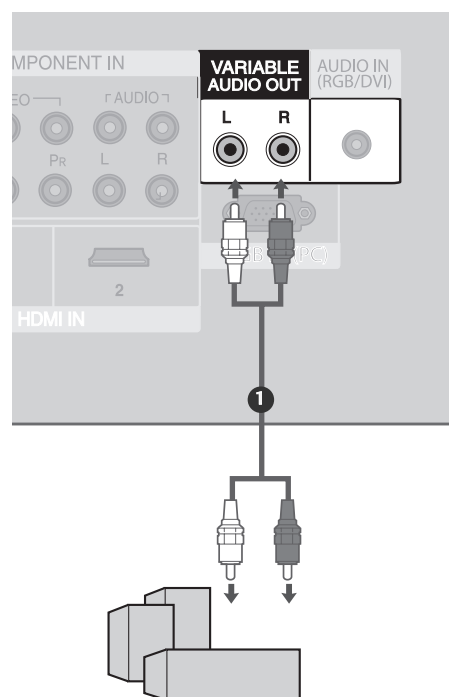
Use to connected either an external amplifier, or add a sub-woofer to your surround sound system.

1. How to connect

- 1 Connect the input jack of the stereos amplifier to the **VARIABLE AUDIO OUT** jacks on the set.
- 2 Set up your speakers through your analog stereo amplifier, according to the instructions provided with the amplifier.

! NOTE

- When connecting with external audio equipments, such as amplifiers or speakers, please turn the TV speakers off. (► p.57)



WATCHING TV /CHANNEL CONTROL

REMOTE CONTROL FUNCTIONS

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

POWER Turns your TV or any other programmed equipment on or off, depending on the mode.

TV Returns to the TV mode.

NUMBER button

INPUT If you press the button once, the input source OSD will appear on screen as shown. Press the ▲ ▼ button and then ENTER button to select the desired input source (TV, AV, Component 1, Component 2, RGB PC, HDMI1 or HDMI2).

MUTE Switch the sound on or off. ► p.30

RATIO Change the aspect ratio. ► p.41

EXIT Clear all on-screen displays and return to TV viewing from any menu.

MENU Displays the main menu.

SIMPLINK See a list of AV devices connected to TV.
When you toggle this button, the Simplink menu appears at the screen. ► p.37

FAV Scroll through the programmed Favorite channels. ► p.35

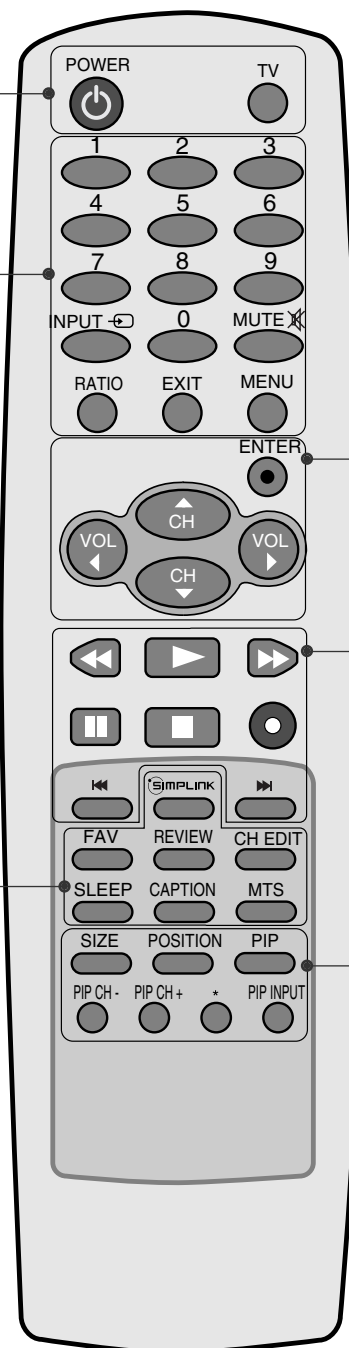
REVIEW Tune to the last channel viewed.

CH EDIT Memorizes or erases selected channel.► p.33

SLEEP Select the amount of time before your TV turns off automatically. ► p.64

CAPTION Selects CAPTION mode. ► p.60

MTS Selects the MTS sound: **Mono**, **Stereo**, or **SAP**. ► p.58



VOLUME UP /DOWN Increase/decrease the sound level.

CHANNEL UP /DOWN Select available channels.

THUMBSTICK (Up/Down/Left Right/ENTER) Navigate the on-screen menus and adjust the system settings to your preference.

SIMPLINK control buttons Control the SIMPLINK compatible devices.

SIZE Adjusts the sub picture size. ► **p.40**

POSITION Moves the sub picture. ► **p.40**

PIP Switches the sub picture PIP/DW mode. ► **p.40**

PIP CH -/+ Selects a program for the sub picture. ► **p.40**

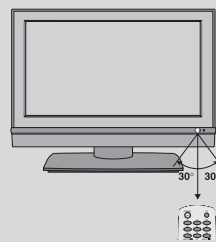
PIP INPUT Selects the input source for the sub picture in PIP/DW mode. ► **p.40**

* Not functional

Installing Batteries

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

Remote control effective range



- Use a remote control up to 7 meters distance and 30 degree (left/right) within the receiving unit scope.
- Dispose of used batteries in a recycle bin to preserve environment.

WATCHING TV / CHANNEL CONTROL

TURNING ON TV

If your TV will be turned on, you will be able to use its features.

- 1 First, connect power cord correctly.
At this moment, the TV switches to standby mode.
 - In standby mode to turn TV on, press the ϕ/I , **INPUT**, **CH** ($\blacktriangle$ or $\blacktriangledown$) button on the TV or press the **POWER**, **TV**, **INPUT**, **CH**($\blacktriangle$ or $\blacktriangledown$), **Number (0~9)** button on the remote control.

Installation guide menu appears on TV screen when it is turned on for the first time.

- 2 Press the $\blacktriangleleft$ or $\blacktriangleright$ button and then **ENTER** button to select your desired language.
- 3 Press the $\blacktriangleleft$ or $\blacktriangleright$ button and then **ENTER** button to select your desired location.

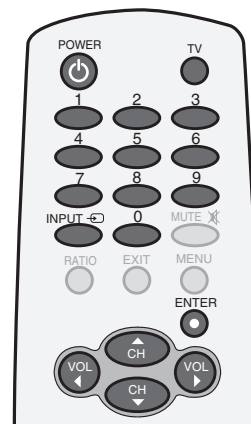
Installation Guide

If the OSD (On Screen Display) is displayed on the screen as figure after turning on the set, you can adjust the Language, Location, Auto tuning.

Location

- * **In-Store:** It maintains the picture mode optimized for the shop environment. It maintains the picture mode as 'dynamic' at a specific interval. It's not available to use **Low Power**.
- * **Home:** The user can adjust the picture mode to use.

Note: In order to reset the installation guide, select **Factory Reset** at the **Option** menu. (► p.39)



! NOTE

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

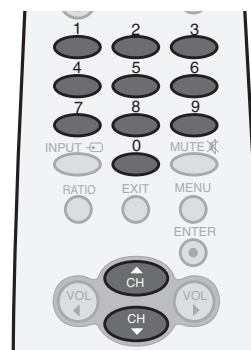
CHANNEL SELECTION

- 1 Press the **CH** ($\blacktriangle$ or $\blacktriangledown$) or **NUMBER** buttons to select a channel number.

VOLUME ADJUSTMENT

Adjust the volume to suit your personal preference.

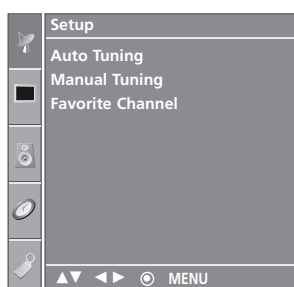
- 1 Press the **VOL** ($\blacktriangleleft$ or $\blacktriangleright$) button to adjust the volume.
- 2 If you want to switch the sound off, press the **MUTE** button.
- 3 You can cancel the Mute function by pressing the **MUTE** or **VOL** ($\blacktriangleleft$ or $\blacktriangleright$) button.



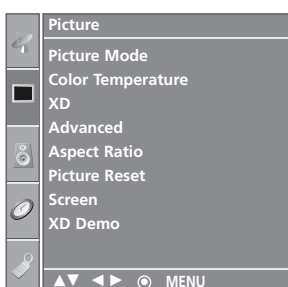
ON SCREEN MENUS SELECTION

Your TV's OSD (On Screen Display) may differ slightly from what is shown in this manual.

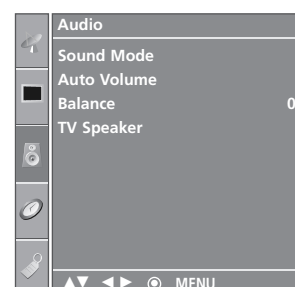
- 1 Press the **MENU** button and then use **▲** or **▼** button to select the each menu.
- 2 Press the **▶** button and then use **▲ ▼ ◀ ▶** button to display the available menus.



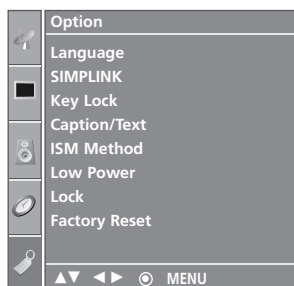
Setup



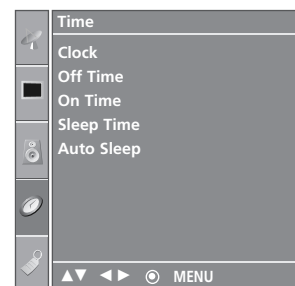
Picture



Audio



Option



Time

WATCHING TV / CHANNEL CONTROL

CHANNEL SETUP

Auto Scan (Auto Tuning)

Auto Tuning 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 TUNING** and the other is called **MANUAL TUNING**.

In **AUTO TUNING** 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 Tuning.

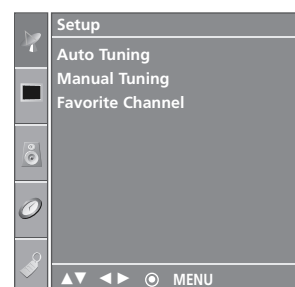
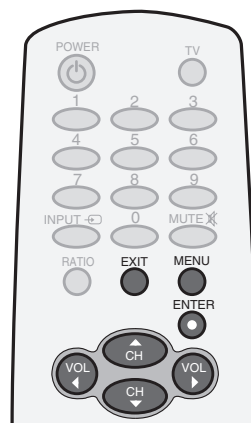
- Redo Auto Tuning if the TV is ever moved to another location.
- Auto Tuning will search for channels only through the Antenna jack.

1 Press the **MENU** button and then use ▲ or ▼ button to select the **Setup** menu.

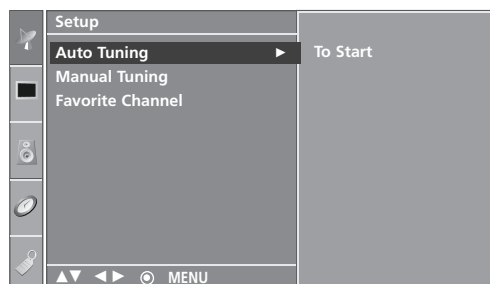
2 Press the ► button and then use ▲ or ▼ button to select **Auto Tuning**.

3 Press the ► button. **Auto Tuning** starts the channel search.

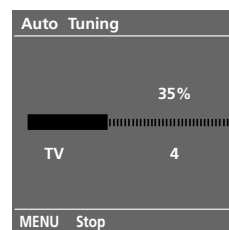
4 If you want to stop auto programming, press the **MENU** button.
Only the channels found up to at that time are memorized.



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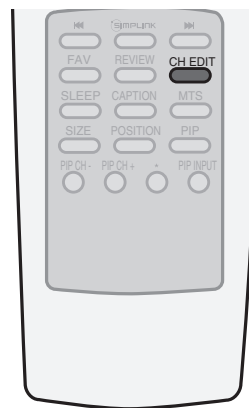
2



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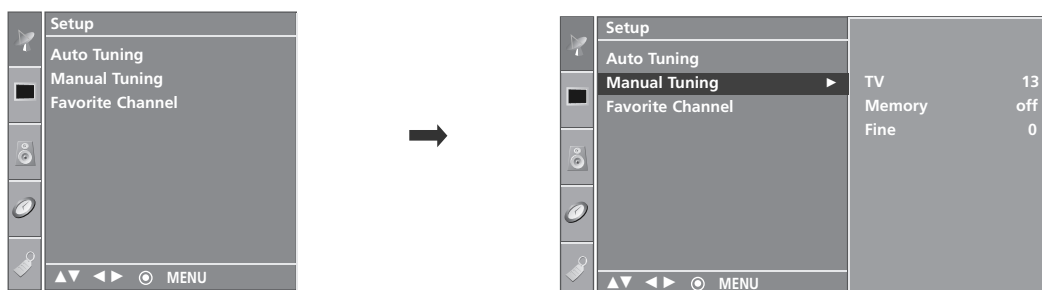
Add/Delete Channel (Manual Tuning)

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



- 1 Use the **CH** (▲ or ▼) or **NUMBER** buttons to select the channel number you want to add or delete.
- 2 Press the **CH EDIT** button.
- 3 Press the **CH EDIT** button to select **Memory** or **Erase**.
- 4 Press the **ENTER** button.

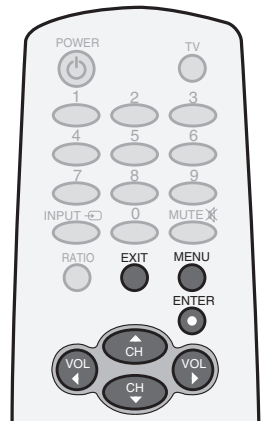
■ You can also use the **SETUP** menu to adjust **Manual Tuning**.



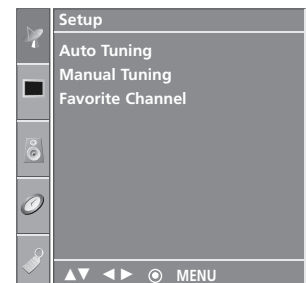
WATCHING TV / CHANNEL CONTROL

FINE TUNING ADJUSTMENT

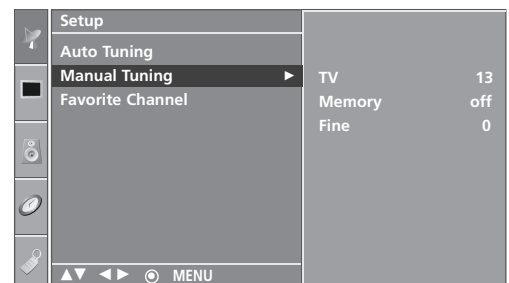
Normally fine tuning is only necessary if reception is poor.
To remove fine tuning from a channel, reprogram the finely-tuned channel with Auto program or Manual Program.
If a finely-tuned channel is memorized, the color of the channel number changes to yellow.



- 1 Press the **MENU** button and then use ▲ or ▼ button to select the **Setup** menu.
- 2 Press the ► button and then use ▲ or ▼ button to select **Manual Tuning**.
- 3 Press the ► button and then use ▲ or ▼ button to select **Fine**.
- 4 Press the ◀ or ▶ button to adjust the picture to your preference.
- 5 Press the **ENTER** button to store it.
- 6 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



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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.

To tune to a favorite channel, press the **FAV** button repeatedly. The 8 favorite channels appear on the screen in numerical order.



1 Press the **MENU** button and then use ▲ or ▼ button to select the **Setup** menu.

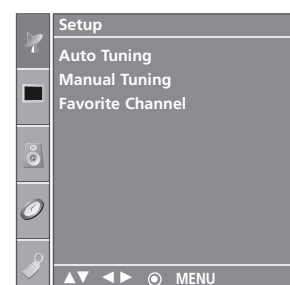
2 Press the ► button and then use ▲ or ▼ button to select **Favorite Channel**.

3 Press the ► button and then use ▲ or ▼ button to select the first favorite program position.

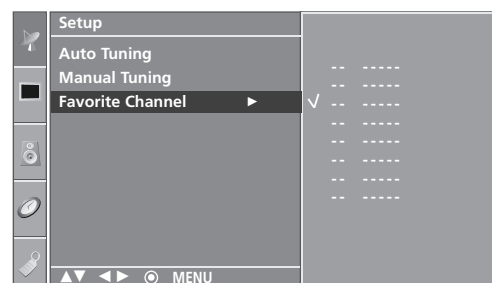
4 Use the ◀ or ▶ button to set the desired channel number for first favorite program.

5 Press the **EXIT** button to return to normal TV viewing.

6 Repeat steps 3 to 5 to memorize other favorite programs.



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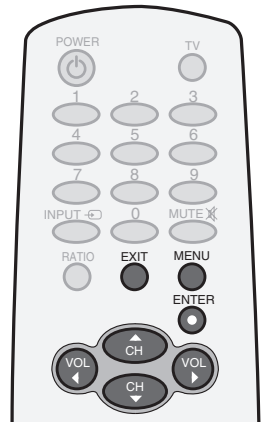
WATCHING TV / CHANNEL CONTROL



This operates only for the devices with the logo.

Please check the logo.

This allows you to control and play other AV devices connected to the display through HDMI cable without additional cables and settings.

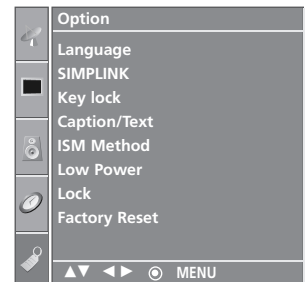


1 Press the **MENU** button and then use ▲ or ▼ button to select the **Option** menu.

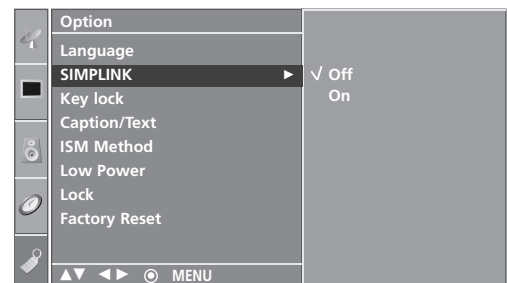
2 Press the ► button and then use ▲ or ▼ button to select **SIMPLINK**.

3 Press the ► button and then use ▲ or ▼ button to select **On** or **Off**.

4 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



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! NOTE

- ▶ Connect the HDMI/DVI IN 1 or HDMI IN 2 terminal of the TV to the rear terminal (HDMI output) of the Simplink device with the HDMI cable.
- ▶ After connecting the HDMI terminal for the home theater with simplink function in the above method, connect the VARIABLE OUT terminal on the back of the TV to the VARIABLE AUDIO IN terminal on the back of the simplink device with the audio cable.
- ▶ When you switch the Input source with the **INPUT** button on the remote control, you can stop the operation of device worked by Simplink.
- ▶ When you select or operate the media device with home theater function, the speaker automatically switches to home theater speaker (HT speaker).

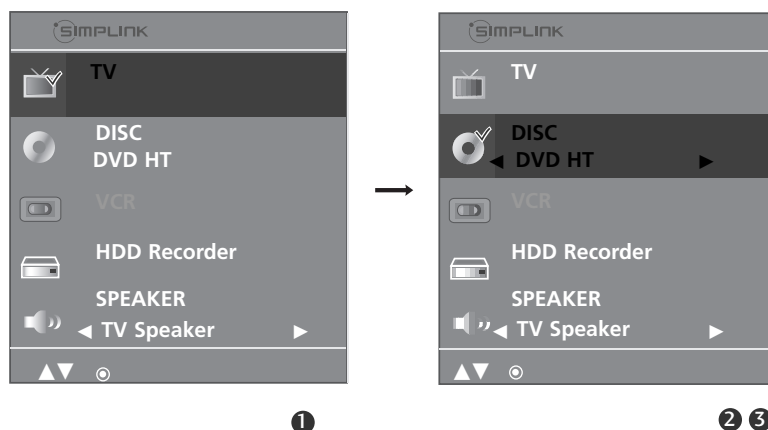
SIMPLINK Functions

- **Direct Play:** After connecting AV devices to TV, you can directly control the devices and play media without additional settings.
- **Select AV device:** Enables you to select one of AV devices connected to TV and play it.
- **Disc playback:** Control connected AV devices by pressing the , , , , , , , , , , , ENTER buttons and buttons for play, stop, pause, fast reverse, fast forward, chapter skip.
- **Power off all devices:** When you power off TV, all connected devices are turned off.
- **Switch audio-out:** Offers an easy way to switch audio-out.

NOTE:

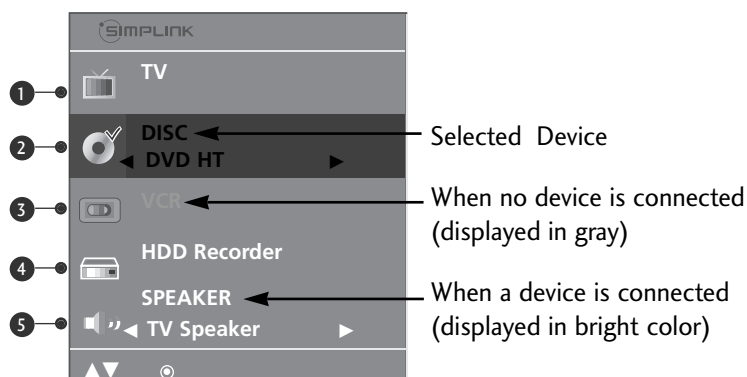
- A device, which is connected to TV through HDMI cable but does not support SimPLink, does not provide this function.
- When SIMPLINK device is on the PLAY mode, ◀ ▶ buttons are available to adjust the volume, but they are available for navigation on the MENU mode.
- To operate SIMPLINK, the HDMI cable over 1.2 Version with *CEC function should be used. (*CEC: Consumer Electronics Control). Version 1.2 is the cable connected to No. 13 Pin and is the line to exchange information between units.

- 1 Press the **SIMPLINK** button.
- 2 Use **▲ ▼ ◀ ▶** button to select the desired device and then press the **ENTER** button.
- 3 Control connected AV devices by pressing the **⏸**, **▶**, **⏹**, **◀**, **⏮**, **⏭**, **⏪**, **⏩**, **⏴**, **⏵** buttons.



SIMPLINK Menu

- ① **TV viewing:** Switch to the previous TV channel regardless of the current mode.
- ② **DISC playback:** Select and play discs. When multiple discs are available, the titles of discs are conveniently displayed at the bottom of the screen.
- ③ **VCR playback:** Play and control the connected VCR.
- ④ **HDD Recordings playback:** Play and control recordings stored in HDD.
- ⑤ **Audio Out to HT speaker/Audio Out to TV:** Select HT speaker or TV speaker for Audio Out.



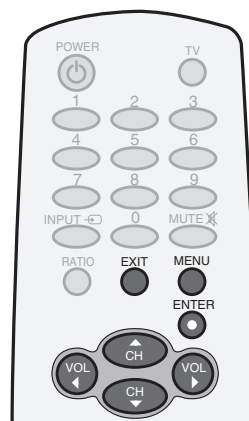
WATCHING TV / CHANNEL CONTROL

KEY LOCK

The TV can be set so that the remote control is needed to control it.

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 set off.

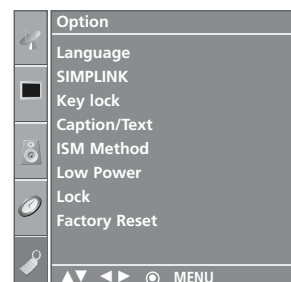


1 Press the **MENU** button and then use ▲ or ▼ button to select the **Option** menu.

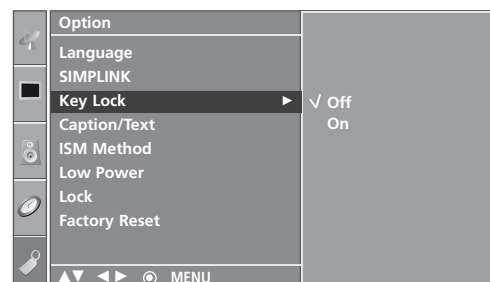
2 Press the ► button and then use ▲ or ▼ button to select **Key lock**.

3 Press the ► button and then use ▲ or ▼ button to select **On** or **Off**.

4 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



1



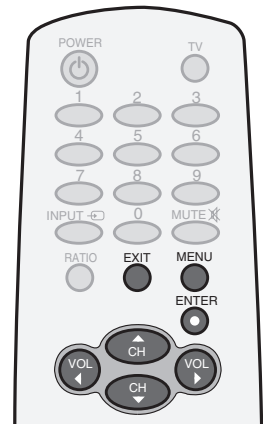
2 3

! NOTE

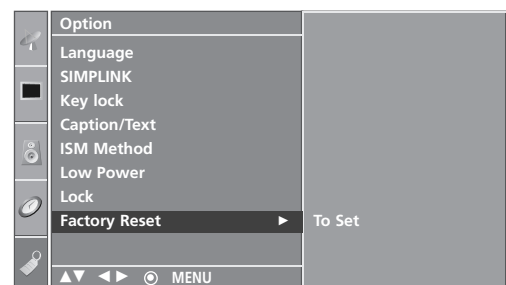
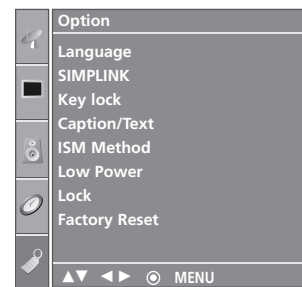
- ▶ In **Key lock 'On'**, if the set is turned off, press the ⏻ / I, **INPUT**, **CH** (▲ or ▼) button on the set or **POWER**, **INPUT**, **TV**, **CH** (▲ or ▼) or **NUMBER** buttons on the remote control.
- ▶ With the **Key lock On**, the display '**Key Lock On**' appears on the screen if any button on the front panel is pressed while viewing the set.

FACTORY RESET

It initializes the entire OSD (On Screen Display) settings.
The Installation Guide Setup window is displayed again after the initialization.



- 1 Press the **MENU** button and then use ▲ or ▼ button to select the **Option** menu.
- 2 Press the ► button and then use ▲ or ▼ button to select **Factory Reset**.
- 3 Press the ► button.



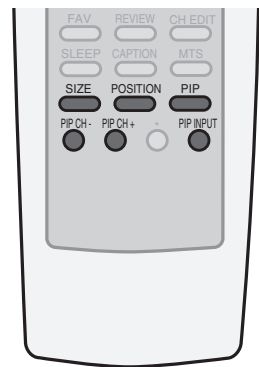
PICTURE CONTROL

PIP / DOUBLE WINDOW

PIP lets you view 2 different inputs (sources) on your TV screen at the same time. One source will be large, and the other source will show a smaller inset image.

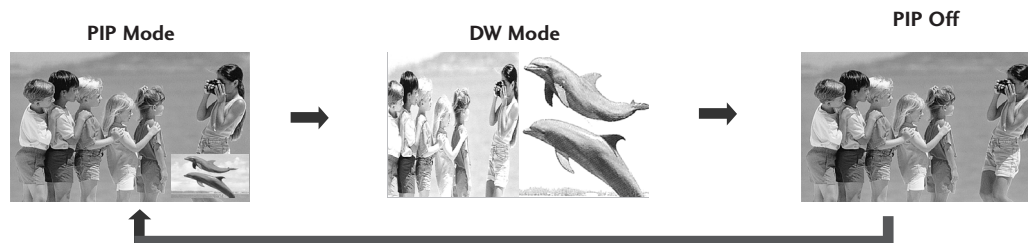
Double Window mode splits the screen into two images, allowing two picture sources to be shown on the TV screen at the same time. Each source is given half the screen.

PIP function is available in the Component, RGB, HDMI mode. (But, it can't adjust 480i resolution of Component mode.)



Watching PIP/Double Window

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



TV Program Selection for PIP

- 1 Use the **PIP CH +/-** button to select a channel for the sub picture.
The selected channel number is displayed just below the input source of main picture.

Selecting an Input Signal Source for the PIP/Double Window

Use the **PIP INPUT** button to select the input source for the sub picture.
Each press of **PIP INPUT** button changes the PIP source.
(Sub picture can be selected only TV, AV)

Sub Picture Size Adjustment (PIP mode only)

Press the **SIZE** button to adjust the sub picture size.
With **SIZE** button in PIP mode, sub picture is adjusted.

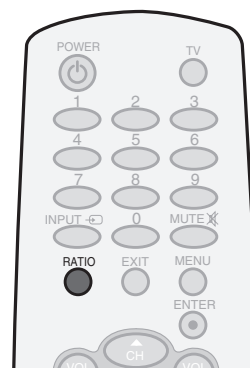
Moving the Sub Picture (PIP mode only)

Press the **POSITION** button.
Repeatedly press the **POSITION** button then sub picture moves.

PICTURE SIZE (ASPECT RATIO) CONTROL

This feature lets you choose the way an analog picture with a 4:3 aspect ratio is displayed on your TV. When you receive an analog picture with a 4:3 aspect ratio on your 16:9 TV, you need to specify how the picture is to be displayed.

- Component, RGB and HDMI input source use 4:3 or 16:9 aspect ratio.



! NOTE

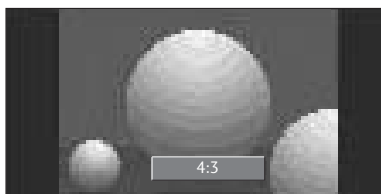
- ▶ If a fixed image is displayed on the screen for a long time, the image may become imprinted on the screen and remain visible. This phenomenon is common to all manufactures and in consequence the manufactures warranty does not cover the product bearing this phenomenon.

- 1 Press the **RATIO** button repeatedly to select the desired picture format.

You can also adjust **Aspect Ratio** in the **Picture** menu.

4:3

Choose 4:3 when you want to view a picture with an original 4:3 aspect ratio.



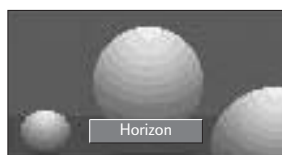
16:9

Adjust the picture horizontally, in a linear proportion to fill the entire screen.



Horizon

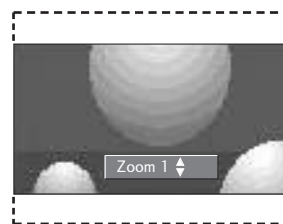
The screen size is, more enlarged at both sides, to create a spectacular view.



Zoom 1

Choose Zoom 1 when you want to view the picture without any alteration. However, the top and bottom portions of the picture will be cropped.

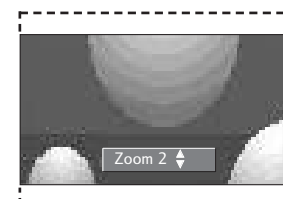
You can move the Zoom1 screen using ▲ or ▼ button.



Zoom 2

Choose Zoom 2 when you want the picture to be altered, both vertically extended and cropped. The picture taking a halfway trade off between alteration and screen coverage.

You can move the Zoom2 screen using ▲ or ▼ button.



PICTURE CONTROL

PRESET PICTURE SETTINGS

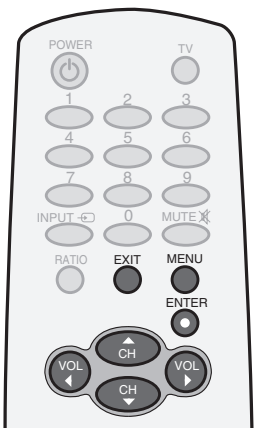
Picture Mode - Preset

Picture Mode adjusts the TV for the best picture appearance. Select the preset value in the Picture Mode menu based on the program category.

Dynamic, Standard, Mild Settings are preset for the optimum picture quality at the factory and are not adjustable.

In the **User1** and **User2** mode only, user can directly adjust the contrast, brightness, color, sharpness, tint.

It's not available to use this function in "In-Store " mode.

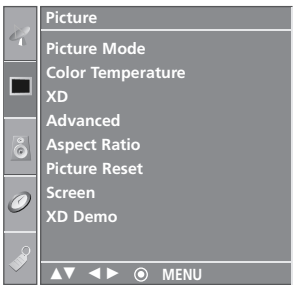


1 Press the **MENU** button and then use ▲ or ▼ button to select the **Picture** menu.

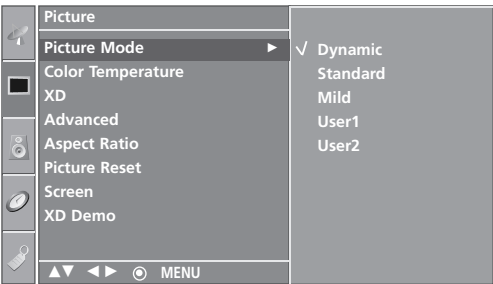
2 Press the ► button and then use ▲ or ▼ button to select **Picture Mode**.

3 Press the ► button and then use ▲ or ▼ button to select **Dynamic, Standard, Mild, User1** or **User2**.

4 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



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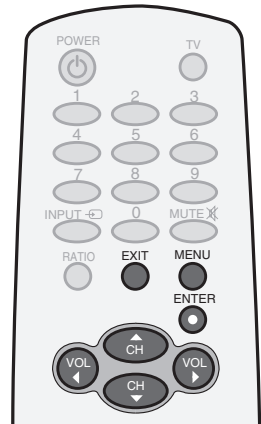


2 3

Color Tone - Preset

Choose one of three automatic color adjustments. Set to warm to enhance hotter colors such as red, or set to cool to see less intense colors with more blue.

When selecting Picture Mode options (User1 and User2), you can choose the Color Temperature.

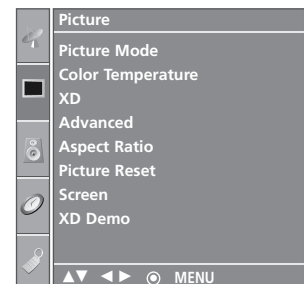


1 Press the **MENU** button and then use ▲ or ▼ button to select the **Picture** menu.

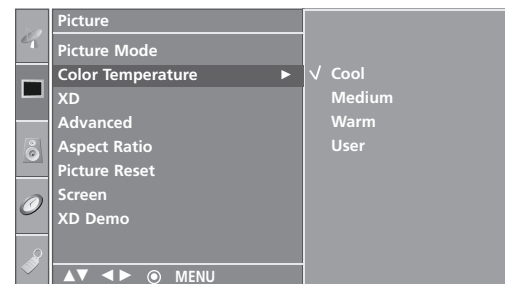
2 Press the ► button and then use ▲ or ▼ button to select **Color Temperature**.

3 Press the ► button and then use ▲ or ▼ button to select either **Cool**, **Medium**, **Warm** or **User**.

4 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



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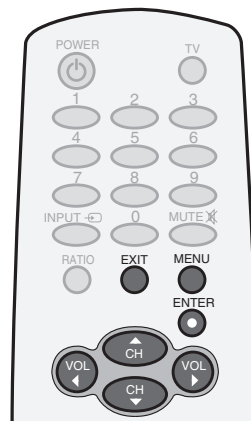
2 3

PICTURE CONTROL

MANUAL PICTURE ADJUSTMENT

Picture Mode - User Mode

Adjust the picture appearance to suit your preference and viewing situations.



1 Press the **MENU** button and then use ▲ or ▼ button to select the **Picture** menu.

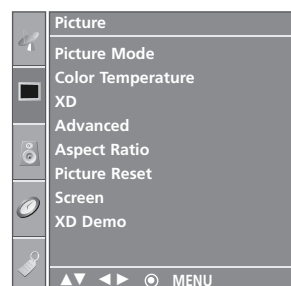
2 Press the ► button and then use ▲ or ▼ button to select **Picture Mode**.

3 Press the ► button and then use ▲ or ▼ button to select **User 1** or **User 2**.

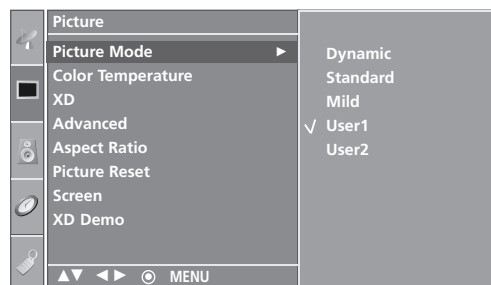
4 Press the ► button and then use ▲ or ▼ button to select the desired picture option (**Contrast**, **Brightness**, **Color**, **Sharpness** and **Tint**).

5 Press the ► button and then use ◀ or ▶ button to make appropriate adjustments.

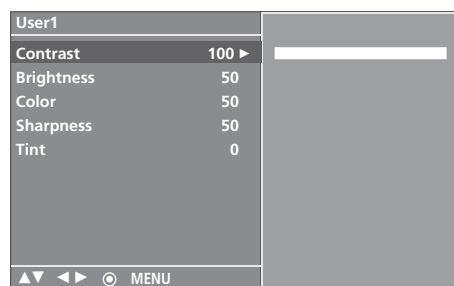
6 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



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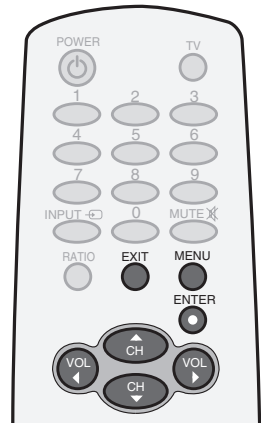
! NOTE

- ▶ In RGB PC/HDMI (No signal) mode, you can't adjust color, sharpness and tint to the levels you prefer.

Color Tone - User Mode

You can also adjust the detailed settings (Red, Green, Blue) by selecting the **Color Temperature-User** menu.

When selecting Picture Mode options (User1 and User2), you can choose the Color Temperature.



- 1 Press the **MENU** button and then use ▲ or ▼ button to select the **Picture** menu.

- 2 Press the ► button and then use ▲ or ▼ button to select **Color Temperature**.

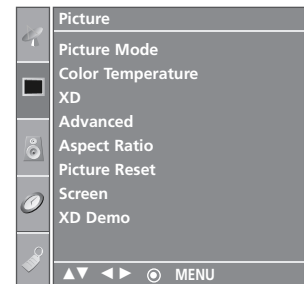
- 3 Press the ► button and then use ▲ or ▼ button to select **User**.

- 4 Press the ► button and then use ▲ or ▼ button to select **Red, Green or Blue**.

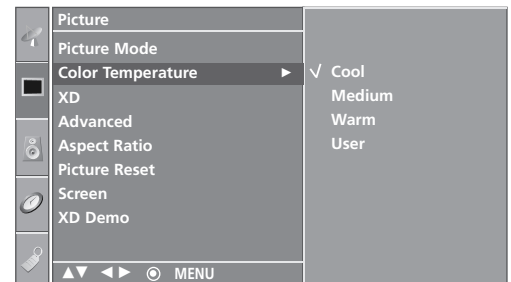
- 5 Press the ► button and then use ◀ or ▶ button to make appropriate adjustments.

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

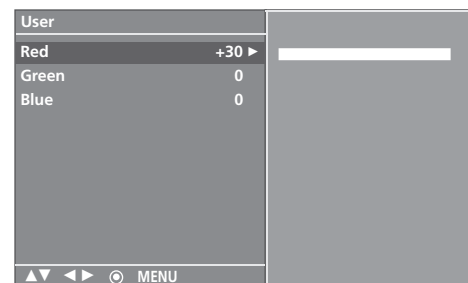
- 6 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



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PICTURE CONTROL

XD - PICTURE IMPROVEMENT TECHNOLOGY

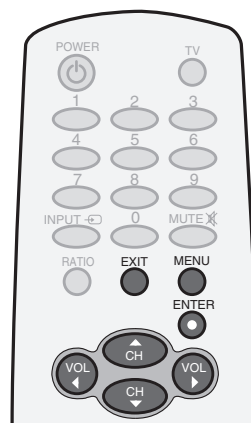
XD is LG's unique picture improving technology to display a real HD source through an advanced digital signal processing algorithm.

When selecting Picture Mode options (Dynamic, Standard, and Mild), XD is automatically changed to Auto.

When selecting Picture Mode option (User1 and User2), you can choose the Auto / Manual.

When selecting the Manual, you can adjust the XD Contrast, XD Color and XD NR.

It's not available to use this function in RGB PC/HDMI (No signal) mode.



- 1 Press the **MENU** button and then use ▲ or ▼ button to select the **Picture** menu.

- 2 Press the ► button and then use ▲ or ▼ button to select **XD**.

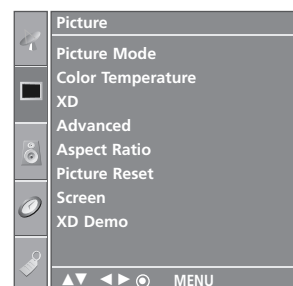
- 3 Press the ► button and then use ▲ or ▼ button to select **Auto** or **Manual**.

Selecting the Manual

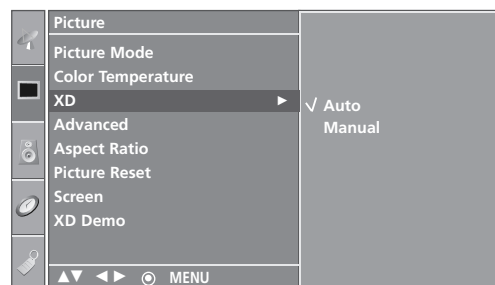
1. Press the ► button and then use ▲ or ▼ button to select **XD Contrast**, **XD Color** or **XD NR (Noise)**.

- **XD Contrast:** Optimizing the contrast automatically according to the brightness of the reflection.
- **XD Color:** Adjusting the colors of the reflection automatically to reproduce as closely as possible to the natural colors.
- **XD NR (Noise):** Removing the noise up to the point where it does not damage the original picture. (It's not available to use this function in HDMI, Component (except 480i), RGB PC mode.)

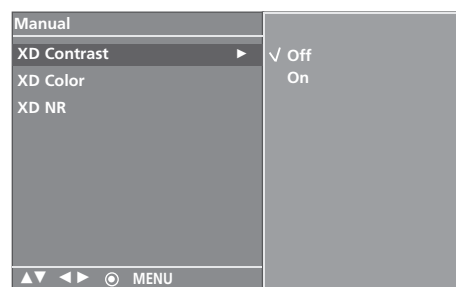
2. Press the ► button and then use ▲ or ▼ button to select **On** or **Off**.



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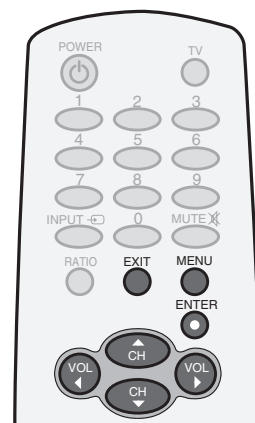
3

- 4 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.

XD DEMO

Use it to see the difference between XD Demo on and XD Demo off.

Note: It's not available to use this function in RGB PC/HDMI (No signal) mode.

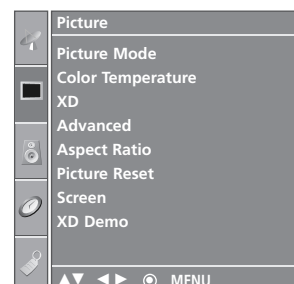


1 Press the **MENU** button and then use ▲ or ▼ button to select the **Picture** menu.

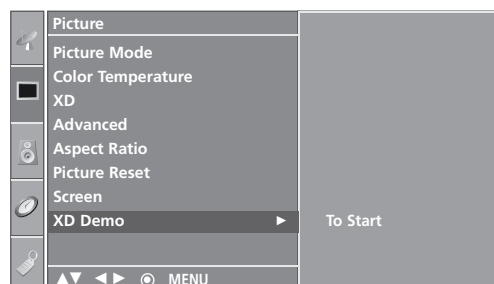
2 Press the ► button and then use ▲ or ▼ button to select **XD Demo**.

3 Press the ► button to begin **XD Demo**.

4 To stop **XD Demo**, press the **MENU** button.



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• XD Demo



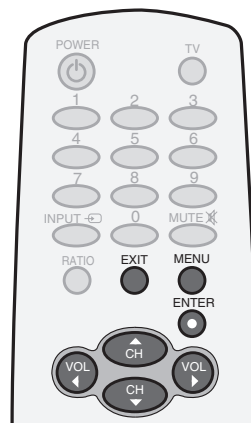
PICTURE CONTROL

ADVANCED - CINEMA 3:2 PULL DOWN MODE

Set up the TV for the best picture appearance for viewing movies.

When you operate Cinema (3:2 Pull-Down Mode or Cinema Correction Mode), the TV will adjust 24 fps video from movies to 30 fps video for display.

This feature operates only in Analog TV, AV and Component 480i mode.



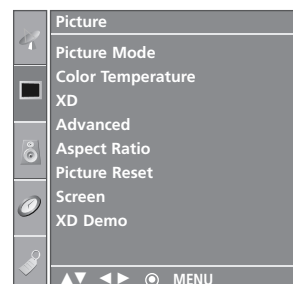
1 Press the **MENU** button and then use ▲ or ▼ button to select the **Picture** menu.

2 Press the ► button and then use ▲ or ▼ button to select **Advanced**.

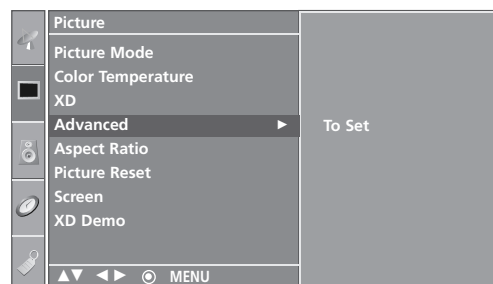
3 Press the ► button and then use ▲ or ▼ button to select **Cinema**.

4 Press the ► button and then use ▲ or ▼ button to select **On** or **Off**.

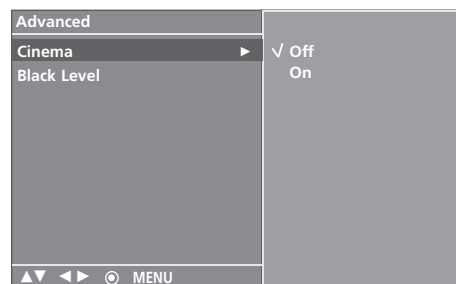
5 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



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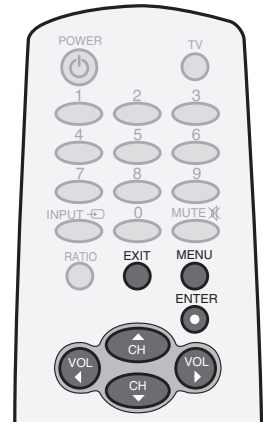
4

ADVANCED - BLACK (DARKNESS) LEVEL

Adjusting the contrast and the brightness of the screen using the black level of the screen.

This feature operates only in AV and HDMI mode.

It's not available to use this function in HDMI (No signal) mode.



1 Press the **MENU** button and then use ▲ or ▼ button to select the **Picture** menu.

2 Press the ► button and then use ▲ or ▼ button to select **Advanced**.

3 Press the ► button and then use ▲ or ▼ button to select **Black Level**.

4 Press the ► button and then use ▲ or ▼ button to select **Low** or **High**.

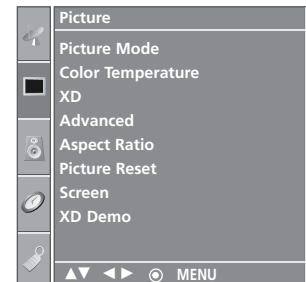
■ Low

The reflection of the screen gets darker.

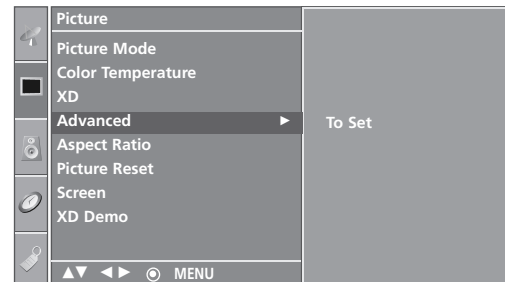
■ High

The reflection of the screen gets brighter.

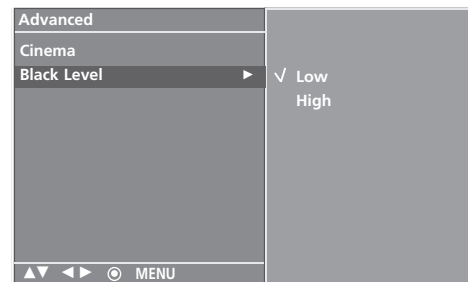
5 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



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PICTURE CONTROL

IMAGE STICKING MINIMIZATION (ISM) METHOD

A frozen still picture from a PC/video game displayed on the screen for prolonged periods will result in a ghost image. Use our unique method to minimize any fixed image on the screen.

1 Press the **MENU** button and then use ▲ or ▼ button to select the **Option** menu.

2 Press the ► button and then use ▲ or ▼ button to select **ISM Method**.

3 Press the ► button and then use ▲ or ▼ button to select either **Normal**, **White Wash**, **Orbiter** or **Inversion**.

■ **Normal**

If image sticking is never a problem, ISM is not necessary - set to Normal.

■ **White Wash**

White Wash removes ghost images from the screen.

Watch the TV normally for a while before using this feature to see if the ghost image disappears on its own.

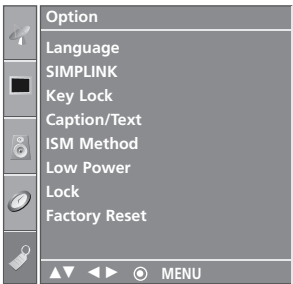
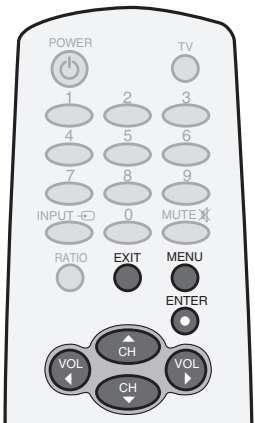
■ **Orbiter**

Orbiter may help prevent ghost images. However, it is best not to allow any fixed image to remain on the screen. To avoid a ghost image on the screen, the image will move once per 2 minutes.

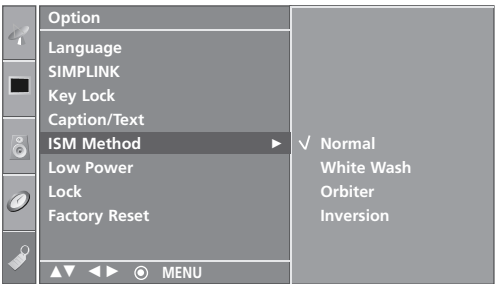
■ **Inversion**

Inversion will automatically invert the plasma display panel color every 30 minutes.

4 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



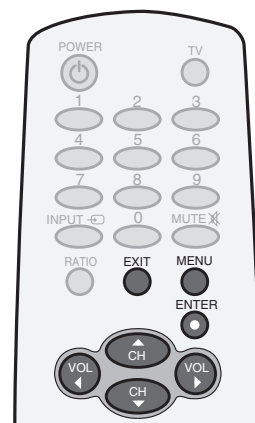
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LOW - POWER PICTURE MODE

Low power reduces the plasma display power consumption. Even though the Low power function is **On** in Store Mode, it's ineffective.



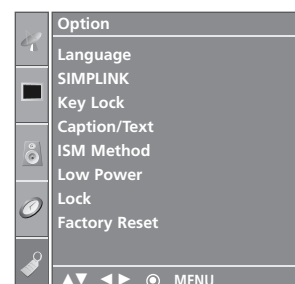
1 Press the **MENU** button and then use ▲ or ▼ button to select the **Option** menu.

2 Press the ► button and then use ▲ or ▼ button to select **Low power**.

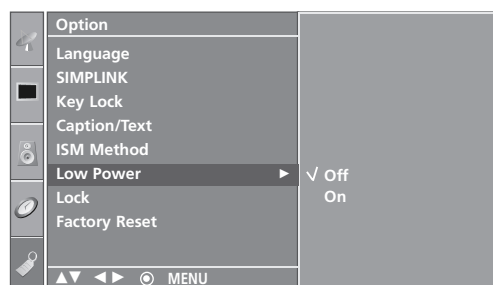
3 Press the ► button and then use ▲ or ▼ button to select **On** or **Off**.

■ When you select **On**, the screen darkens.

4 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



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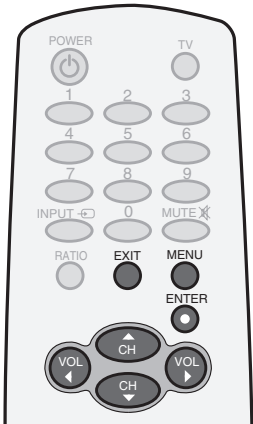


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PICTURE CONTROL

PICTURE RESET

Use to quickly reset all the Picture menu options to their original factory preset values.

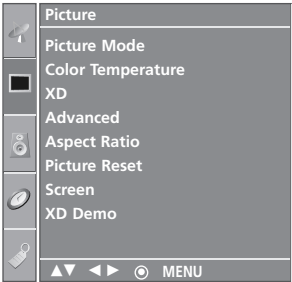


1 Press the **MENU** button and then use ▲ or ▼ button to select the **Picture** menu.

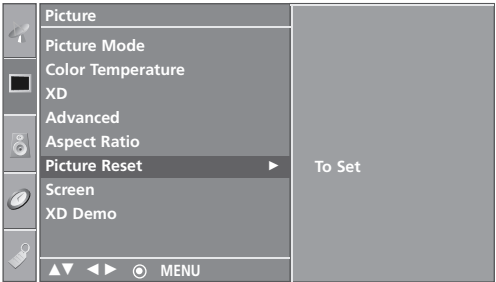
2 Press the ► button and then use ▲ or ▼ button to select **Picture Reset**.

3 Press the ► button to initialize the adjusted value.

- Returns to the default settings Picture Mode, Color Temperature, XD, Advanced, Aspect Ratio at the factory.



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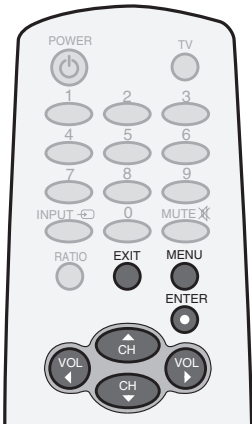
2 3

SOUND & LANGUAGE CONTROL

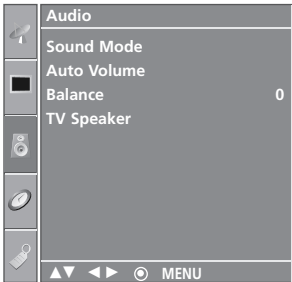
PRESET SOUND SETTINGS (SOUND MODE)

Sound Mode lets you enjoy the best sound without any special adjustment because the TV sets the appropriate sound options based on the program content.

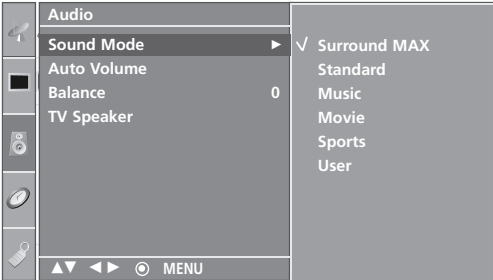
Surround MAX, Standard, Music, Movie, and Sports are preset for good sound quality at the factory and are not adjustable.



- 1 Press the **MENU** button and then use ▲ or ▼ button to select the **Audio** menu.
- 2 Press the ► button and then use ▲ or ▼ button to select **Sound Mode**.
- 3 Press the ► button and then use ▲ or ▼ button to select **Surround MAX, Standard, Music, Movie, Sports** or **User**.
- 4 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



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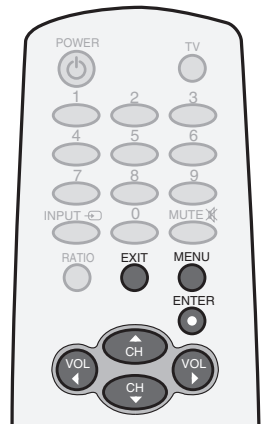


2 3

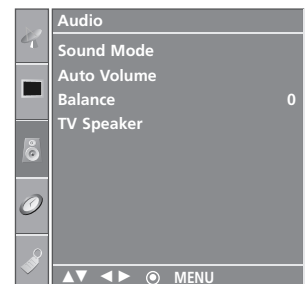
SOUND & LANGUAGE CONTROL

SOUND FREQUENCY ADJUSTMENT

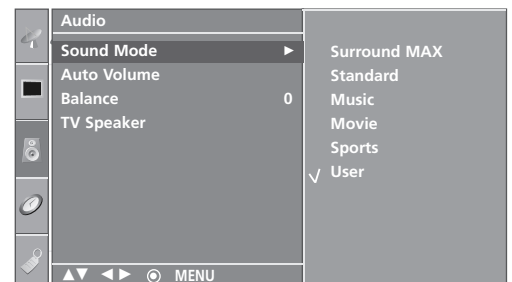
Adjust the sound equalizer.



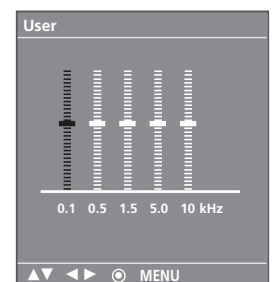
- 1 Press the **MENU** button and then use ▲ or ▼ button to select the **Audio** menu.
- 2 Press the ► button and then use ▲ or ▼ button to select **Sound Mode**.
- 3 Press the ► button and then use ▲ or ▼ button to select **User**.
- 4 Press the ► button.
- 5 Select a sound band by pressing the ◀ or ▶ button. Make appropriate sound level with the ▲ or ▼ button.
- 6 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



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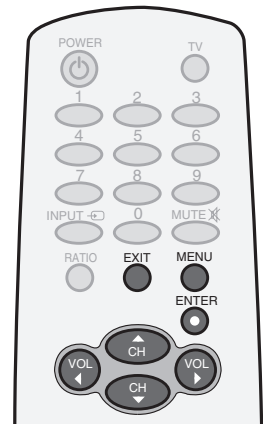
2 3 4



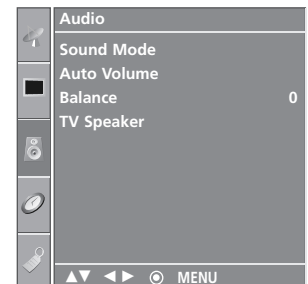
5

AUTO VOLUME LEVELER

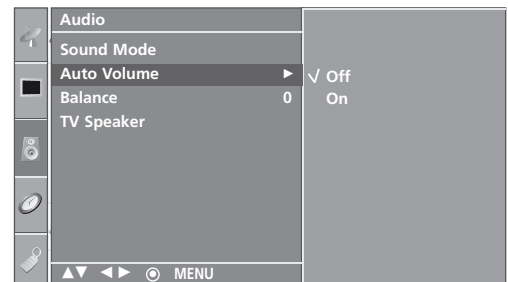
Auto Volume automatically keeps on an equal volume level even if you change program.



- 1 Press the **MENU** button and then use ▲ or ▼ button to select the **Audio** menu.
- 2 Press the ► button and then use ▲ or ▼ button to select **Auto Volume**.
- 3 Press the ► button and then use ▲ or ▼ button to select **On** or **Off**.
- 4 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



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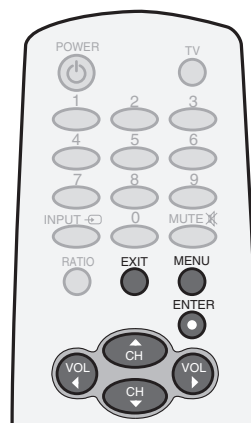


2 3

SOUND & LANGUAGE CONTROL

BALANCE ADJUSTMENT

Adjust the left/right sound of speaker to suit your taste and room situations.

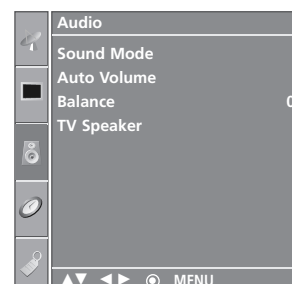


1 Press the **MENU** button and then use ▲ or ▼ button to select the **Audio** menu.

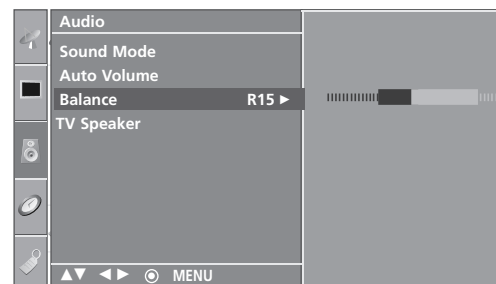
2 Press the ► button and then use ▲ or ▼ button to select **Balance**.

3 Press the ► button and then use ◀ or ▶ button to make desired adjustment.

4 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



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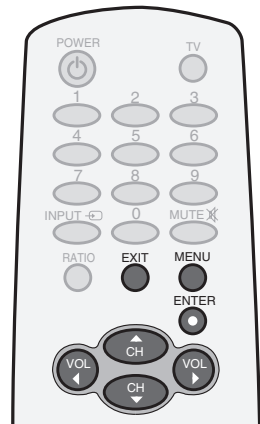
2 3

TV SPEAKERS ON/OFF SETUP

Turn the TV speakers off if using external audio equipment. Feature turns the TV Speakers option On or Off.

In AV, Component, RGB PC and HDMI mode, internal speaker audio can be outputted even though there is no video signal.

If you want to use your external hi-fi stereo system, turn off the internal speakers of the set.

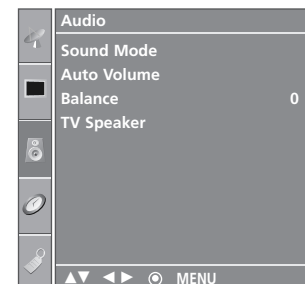


1 Press the **MENU** button and then use ▲ or ▼ button to select the **Audio** menu.

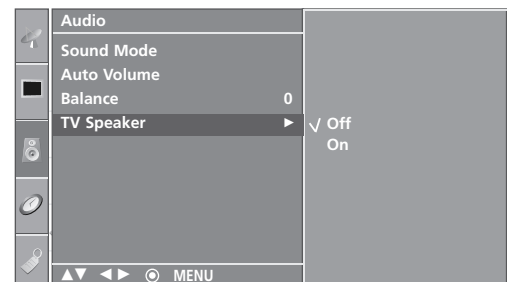
2 Press the ► button and then use ▲ or ▼ button to select **TV Speaker**.

3 Press the ► button and then use ▲ or ▼ button to select **On** or **Off**.

4 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



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2 3

SOUND & LANGUAGE CONTROL

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.



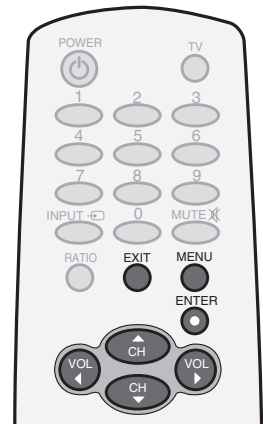
- 1 Use the **MTS** button to select your desired MTS mode in analog signal. Each time you press the **MTS** button, **Mono**, **Stereo**, or **SAP** appear in turn.
- 2 Press **EXIT** button to save and return to TV viewing.

! NOTE

- ▶ 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.

ON-SCREEN MENUS LANGUAGE SELECTION

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

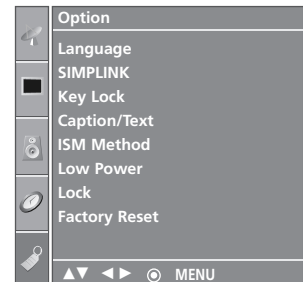


1 Press the **MENU** button and then use ▲ or ▼ button to select the **Option** menu.

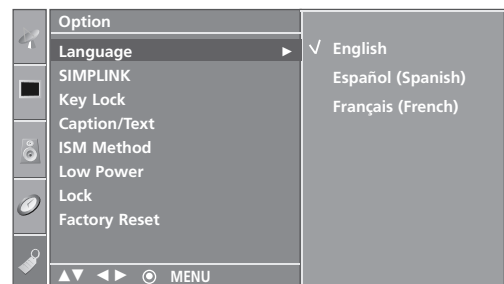
2 Press the ► button and then use ▲ or ▼ button to select **Language**.

3 Press the ► button and then use ▲ or ▼ button to select your desired language.
From this point on, the on-screen menus will be shown in the selected language.

4 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



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SOUND & LANGUAGE CONTROL

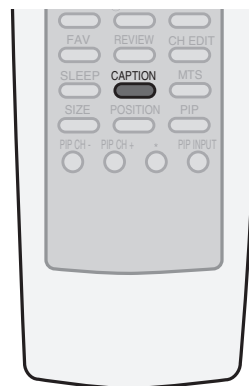
CAPTION / TEXT

Select a caption mode for displaying captioning information if provided on a program. Analog caption displays information at any position on the screen and is usually the program's dialog.

Text displays information, usually at the bottom position and is used for a data service, generally not program related.

Caption/Text, if provided by the broadcaster, would be available for both digital and analog channels on the Antenna/Cable.

This TV is programmed to memorize the caption/text mode which was last set when you turn the power off.



- 1 Use the **CAPTION** button repeatedly to select Caption Off, CC1 -4, Text1 -4.

■ CAPTION

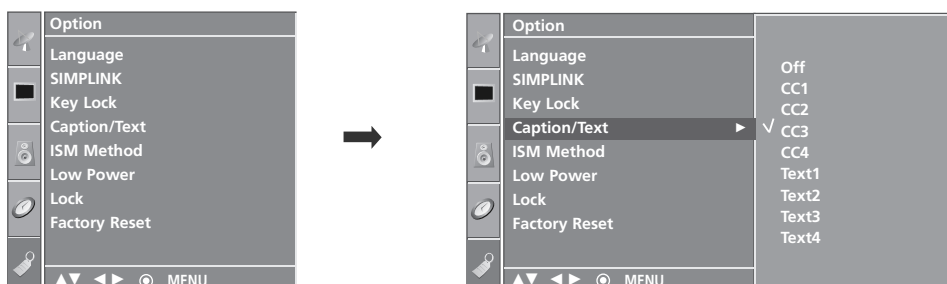
The term for the words that scroll across the bottom of the TV screen; usually the audio portion of the program provided for the hearing impaired.

■ TEXT

The term for the words that appear in a large black frame and almost cover the entire screen; usually messages provided by the broadcaster.

- 2 Press **EXIT** button to save and return to TV viewing.

- You can also adjust **Caption/Text** in the **Option** menu.



TIME SETTING

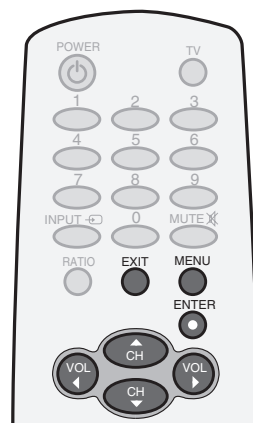
CLOCK SETTING

Auto Clock Setup

The time is set automatically from a PBS channel signal.

The PBS channel signal includes information for the current time provided by the broadcasting station.

Set the clock manually if the current time is set incorrectly by the auto clock function.



1 Press the **MENU** button and then ▲ or ▼ button to select the **Time** menu.

2 Press the ► button and then ▲ or ▼ button to select **Clock**.

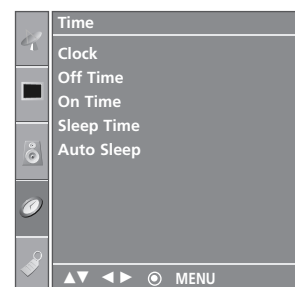
3 Press the ► button and then use ▲ or ▼ button to select **Auto**.

4 Press the ► button and then use ▲ or ▼ button to select your viewing area time zone. Your choices are: **Auto**, **Nfld** (Newfoundland), **Atlantic**, **E.S.T** (Eastern Standard Time), **C.S.T** (Central Standard Time), **M.S.T** (Mountain Standard Time), **P.S.T** (Pacific Standard Time).

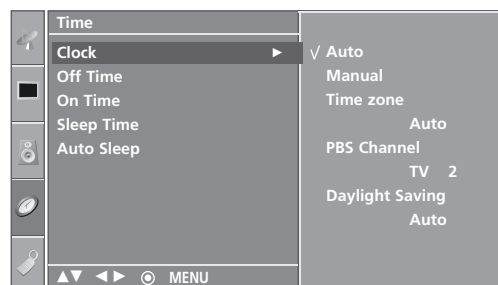
5 Press the ► button and then use ▲ or ▼ button to set **PBS channel**.

6 Press the ► button and then use ▲ or ▼ button to select **Auto**, **On**, **Off**, depending on whether or not your viewing area observes Daylight Saving time.

7 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



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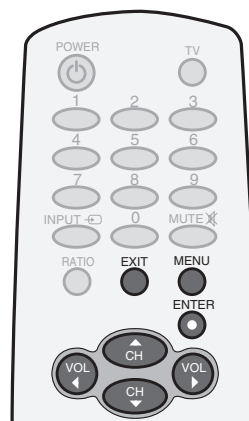


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TIME SETTING

Manual Clock Setup

If the current time setting is wrong, reset the clock manually.



- 1 Press the **MENU** button and then ▲ or ▼ button to select the **Time** menu.

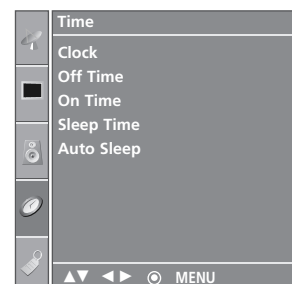
- 2 Press the ► button and then ▲ or ▼ button to select **Clock**.

- 3 Press the ► button and then use ▲ or ▼ button to select **Manual**.

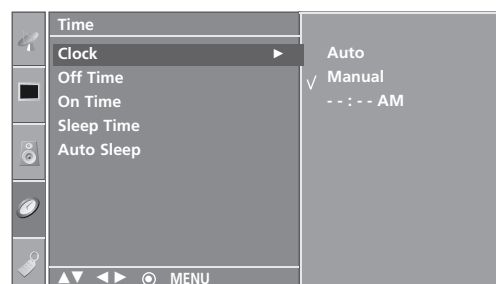
- 4 Press the ► button and then use ▲ or ▼ button to set the hour.

- 5 Press the ► button and then use ▲ or ▼ button to set the minutes.

- 6 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



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2 3

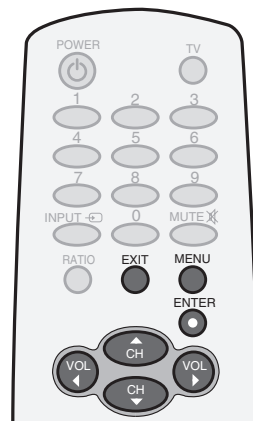
AUTO ON/OFF TIME SETUP

The time function operates only if the current time has been set.

The Off-Time function overrides the On-Time function if they are both set to the same time.

The TV must be in standby mode for the On-Time to work.

If you do not press any button within 2 hours after the TV turns on with the On Time function, the TV will automatically revert to standby mode.



- 1 Press the **MENU** button and then use ▲ or ▼ button to select the **Time** menu.

- 2 Press the ► button and then use ▲ or ▼ button to select **Off time** or **On time**.

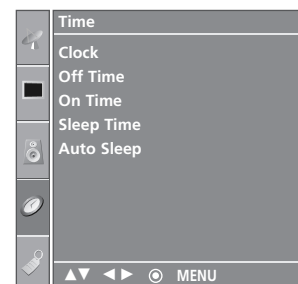
- 3 Press the ► button and then use ▲ or ▼ button to select **On**.
 - To cancel the **On/Off time** function, select **Off**.

- 4 Press the ► button and then use ▲ or ▼ button to set the hour.

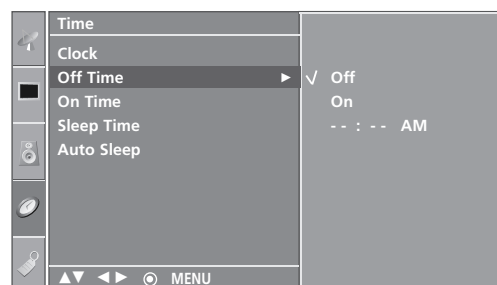
- 5 Press the ► button and then use ▲ or ▼ button to set the minutes.

- 6 **Only On time**
Press the ► button and then use ▲ or ▼ to set the sound level at turn-on.
Press the ► button and then use ▲ or ▼ to select the channel at turn-on.

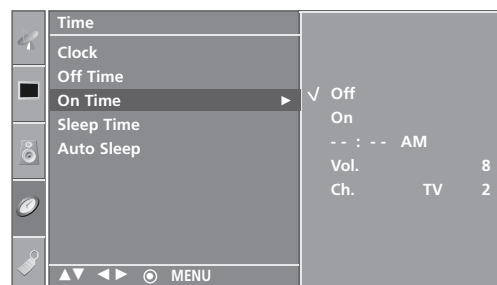
- 7 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



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2 3 4 5



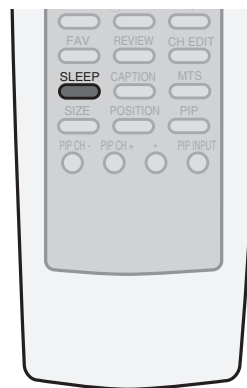
2 3 4 5 6

TIME SETTING

SLEEP TIME SETTING

The Sleep Time turns the TV off at the preset time.

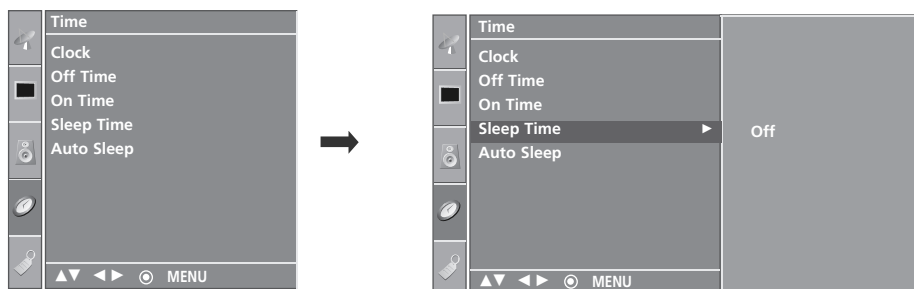
Note that this setting is cleared when the TV is turned off.



- 1 Press the **SLEEP** button repeatedly to select the number of minutes. First the  - - - 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 **ENTER** button. The timer begins to count down from the number of minutes selected.

■ You can also set up the **Sleep Time** in the **Time** menu.

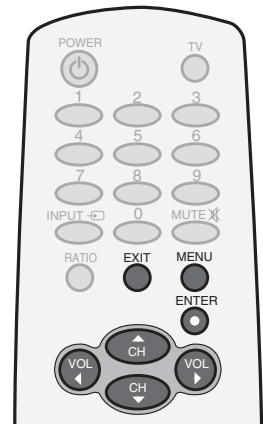


! NOTE

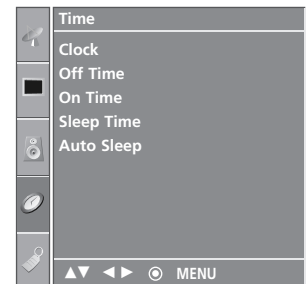
- ▶ To view the remaining sleep time, press the **SLEEP** button once.
- ▶ To cancel the sleep time, repeatedly press the **SLEEP** button until the display '  - - - ' appears.
- ▶ If you turn the TV off after setting the sleep timer, the setting will be erased.

AUTO SHUT-OFF SETTING

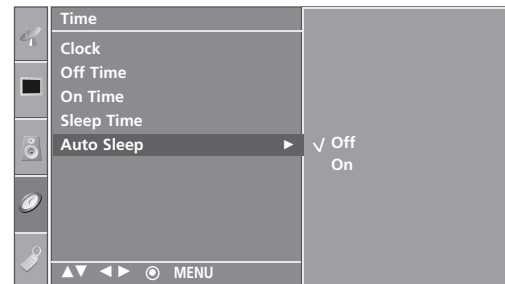
If set to on and there is no input signal, the TV turns off automatically after 10 minutes.



- 1 Press the **MENU** button and then use ▲ or ▼ button to select the **Time** menu.
- 2 Press the ► button and then use ▲ or ▼ button to select **Auto Sleep**.
- 3 Press the ► button and then use ▲ or ▼ button to select **On** or **Off**.
- 4 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



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PARENTAL CONTROL / RATINGS

Parental Control can be used to block specific channels, ratings and other viewing sources.

The Parental Control Function (V-Chip) is used to block program viewing based on the ratings sent by the broadcasting station. The default setting is to allow all programs to be viewed. Viewing can be blocked by choosing the type of the program and the categories. It is also possible to block all program viewing for a time period. To use this function, the following must be done :

1. Set ratings and categories to be blocked.
2. Specify a password
3. Enable the lock

V-Chip rating and categories

Rating guidelines are provided by broadcasting stations. Most television programs and television movies can be blocked by TV Rating and/or Individual Categories. Movies that have been shown at the theaters or direct-to-video movies use the Movie Rating System (MPAA) only.

Ratings for Television programs including made-for-TV movies:

- TV-G (General audience)
- TV-PG (Parental guidance suggested)
- TV-14 (Parents strongly cautioned)
- TV-MA (Mature audience only)
- TV-Y (All children)
- TV-Y7 (Children 7 years older)

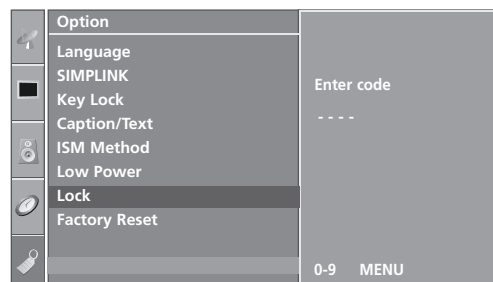
SET PASSWORD & LOCK SYSTEM

Setting up Your Password

Set up blocking schemes to block specific channels, ratings, and external viewing sources.

A password is required to gain access to this menu.

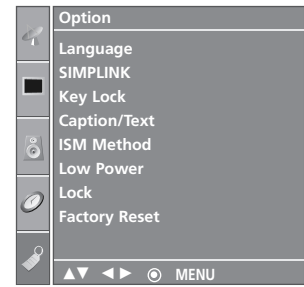
- 1 Press the **MENU** button and then use ▲ or ▼ button to select the **Option** menu.
- 2 Press the ► button and then use ▲ or ▼ button to select **Lock**. Then press the ► button.
 - Enter the password as requested.
 - The TV is set up with the initial password "0-0-0-0".



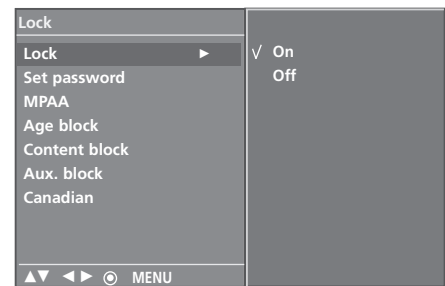
Lock System

Enables or disables the blocking scheme you set up previously.

- 1 Press the **MENU** button and then use ▲ or ▼ button to select the **Option** menu.
- 2 Press the ► button and then use the ▲ or ▼ button to select **Lock**.
- 3 Press the ► button and then use the ▲ or ▼ button to select **Lock**.
- 4 Press the ► button and then use the ▲ or ▼ button to select **On** or **Off**.
 - When you select **On**, the Lock System is enable.
- 5 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



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Set Password

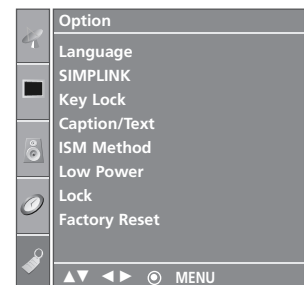
Change the password by inputting a new password twice.

- 1 Press the **MENU** button and then use ▲ or ▼ button to select the **Option** menu.
- 2 Press the ► button and then use the ▲ or ▼ button to select **Lock**.
- 3 Press the ► button and then use the ▲ or ▼ button to select **Set password**.
- 4 Press the ► button and then choose any 4 digits for your new password.

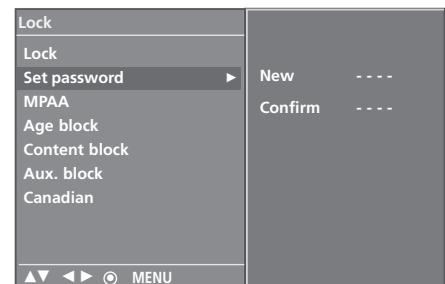
As soon as the 4 digits are entered, re-enter the same 4 digits on the **Confirm**.

Then your changed password has been memorized.

- 5 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



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! NOTE

- If you ever forget your password, key in '7', '7', '7', '7' on the remote control.

PARENTAL CONTROL / RATINGS

MOVIE & TV RATING

Movie Rating (MPAA)

Blocks movies according to the movie ratings limits specified, so children cannot view certain movies. You can set the ratings limit by blocking out all the movies with the ratings above a specified level. Keep in mind that the movie ratings limit only applies to movies shown on TV, not TV programs, such as soap operas.

1 Press the **MENU** button and then use ▲ or ▼ button to select the **Option** menu.

2 Press the ► button and then use the ▲ or ▼ button to select **Lock**.

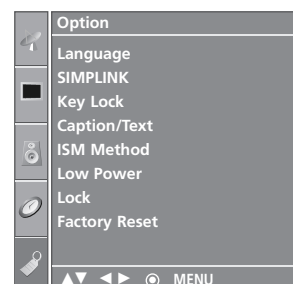
3 Press the ► button and then use the ▲ or ▼ button to select **MPAA**.

4 Press the ► button and then use the ▲ or ▼ button to select block options.

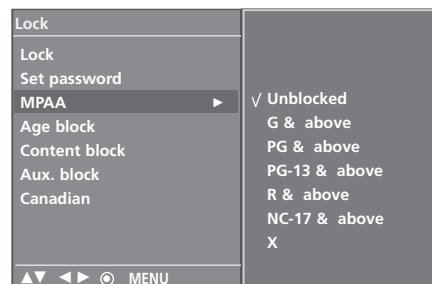
- Unblocked (Permits all programs)
- G & above (General audience)
- PG & above (Parental guidance suggested)
- PG-13 & above (Parents strongly cautioned)
- R & above (Restricted)
- NC-17 & above (No one 17 and under admitted)
- X (Adult only)

► If you set PG-13 & above : G and PG movies will be available, PG-13, R, NC-17 and X will be blocked.

5 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



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AGE BLOCK

TV Rating General

Based on the ratings, blocks certain TV programs that you and your family do not want to view.

TV Rating Children

Prevents children from watching certain children's TV programs, according to the ratings limit set. The children rating does not apply to other TV programs. Unless you block certain TV programs intended for mature audiences in the TV Rating - sub menu, your children can view those programs.

1 Press the **MENU** button and then use ▲ or ▼ button to select the **Option** menu.

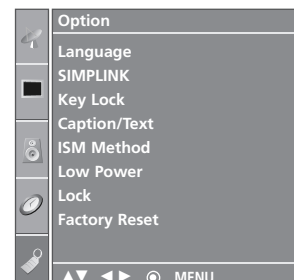
2 Press the ► button and then use the ▲ or ▼ button to select **Lock**.

3 Press the ► button and then use the ▲ or ▼ button to select **Age block**.

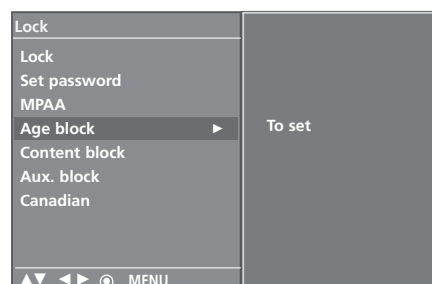
4 Press the ► button and then use the ▲ or ▼ button to choose **General** or **Children**.
Press the ► button and then use the ▲ or ▼ button to select block options.

- Unblocked (Permits all programs)
- TV-G & above (General audience)
- TV-PG & above (Parental guidance suggested)
- PG-14 & above (14 years and older)
- TV-MA (Mature audience only)
- TV-Y & above (All children)
- TV-Y7 (Children 7 years older)

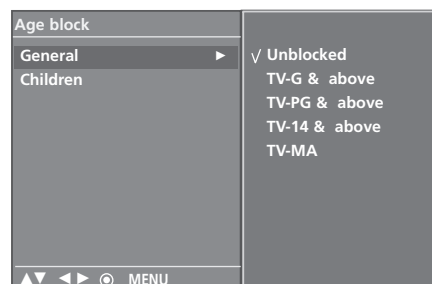
5 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



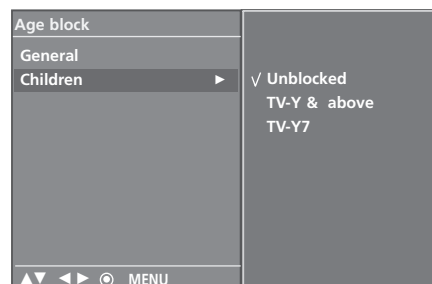
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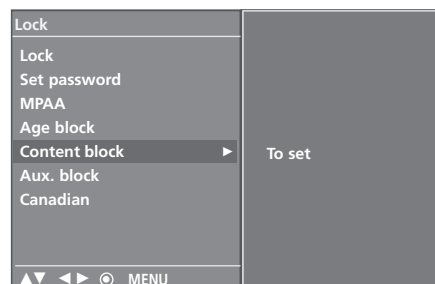
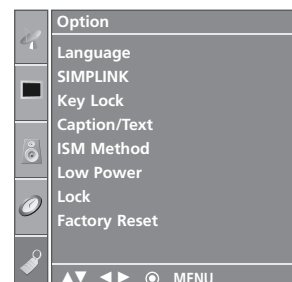


4

PARENTAL CONTROL /RATINGS

CONTENT BLOCK

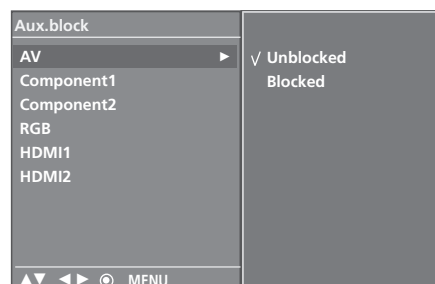
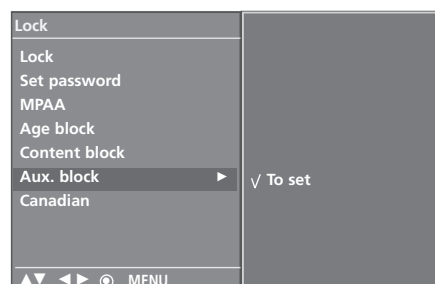
- 1 Press the **MENU** button and then use ▲ or ▼ button to select the **Option** menu.
- 2 Press the ► button and then use the ▲ or ▼ button to select **Lock**.
- 3 Press the ► button and then use the ▲ or ▼ button to select **Content block**.
- 4 Press the ► button and then use the ▲ or ▼ button to select **Dialog, Language, Sex, Violence** or **F.Violence**. Press the ► button and then use the ▲ or ▼ button to select block options.
 - Dialogue- sexual dialog (applies to TV-PG & above, TV-14 & above,)
 - Language- adult language (applies to TV-PG & above, TV-14 & above, TV-MA)
 - Sex- sexual situations (applies to TV-PG & above, TV-14 & above ,TV-MA)
 - Violence (applies to TV-PG & above, TV-14 & above, TV-MA)
 - F.Violence-Fantasy Violence (applies to TV-Y7)
- 5 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



AUX. BLOCK

Enables you to select a source to block from the external source devices you have hooked up.

- 1 Press the **MENU** button and then use ▲ or ▼ button to select the **Option** menu.
- 2 Press the ► button and then use the ▲ or ▼ button to select **Lock**.
- 3 Press the ► button and then use the ▲ or ▼ button to select **Aux.Block**.
- 4 Press the ► button and then use the ▲ or ▼ button to select **AV, Component 1-2, RGB, HDMI1** or **HDMI2**.
- 5 Press the ► button and then use the ▲ or ▼ button to select **Unblocked** or **Blocked**.
- 6 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



CANADIAN

TV Rating English

Selecting canadian english language rating system.

TV Rating French

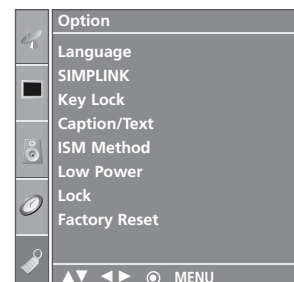
Selecting canadian french language rating system.

- 1 Press the **MENU** button and then use ▲ or ▼ button to select the **Option** menu.
- 2 Press the ► button and then use the ▲ or ▼ button to select **Lock**.
- 3 Press the ► button and then use the ▲ or ▼ button to select **Canadian**.
- 4 Press the ► button and then use the ▲ or ▼ button to choose **English** or **French**.
- 5 Press the ► button and then use the ▲ or ▼ button to select block options.

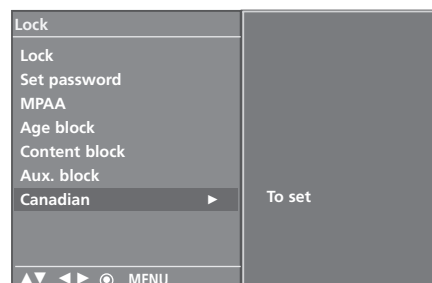
- Unblocked (Permits all programs)
- C & above (Children)
- C8+ (Children eight years and older)
- G & above (General programming, suitable for all audiences)
- PG & above (Parental Guidance)
- 14+ (Viewers 14 years and older)
- 18+ (Adult programming)

- G & above (General)
- 8ans+ (General-Not convenient for little children)
- 13ans+ (Not convenient for children of 13 years and younger)
- 16ans+ (Not convenient for children of 16 years and younger)
- 18ans+ (This programs is only for adults)

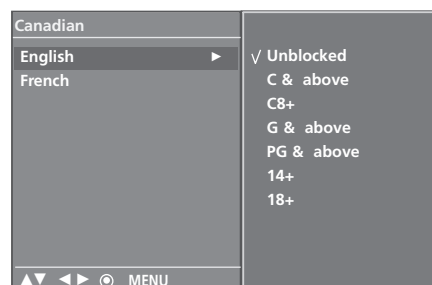
- 6 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



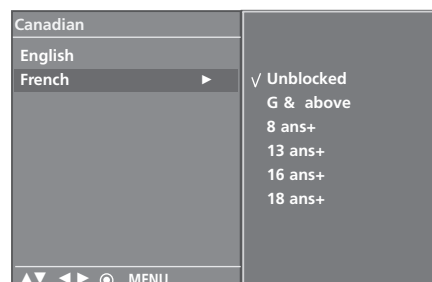
1



2 3



4



4

TROUBLESHOOTING CHECKLIST

The operation does not work normally.

The remote control doesn't work

- Check to see if there is any object between the product and the remote control causing obstruction. Ensure you are pointing the remote control directly at the TV.
- Ensure that the batteries are installed with correct polarity (+ to +, - to -).
- Ensure that the correct remote operating mode is set: TV, VCR etc.
- Install new batteries.

Power is suddenly turned off

- Is the sleep timer set?
- Check the power control settings. Power interrupted.
- No broadcast on station tuned with Auto off activated.

The video function does not work.

No picture & No sound

- Check whether the product is turned on.
- Try another channel. The problem may be with the broadcast.
- Is the power cord inserted into wall power outlet?
- Check your antenna direction and/or location.
- Test the wall power outlet, plug another product's power cord into the outlet where the product's power cord was plugged in.

Picture appears slowly after switching on

- This is normal, the image is muted during the product startup process. Please contact your service center, if the picture has not appeared after five minutes.

No or poor color or poor picture

- Adjust Color in menu option.
- Keep a sufficient distance between the product and the VCR.
- Try another channel. The problem may be with the broadcast.
- Are the video cables installed properly?
- Activate any function to restore the brightness of the picture.

Horizontal/vertical bars or picture shaking

- Check for local interference such as an electrical appliance or power tool.

Poor reception on some channels

- Station or cable product experiencing problems, tune to another station.
- Station signal is weak, reorient antenna to receive weaker station.
- Check for sources of possible interference.

Lines or streaks in pictures

- Check antenna (Change the direction of the antenna).

The audio function does not work.

Picture OK & No sound	■ Press the VOL or VOLUME button. ■ Sound muted? Press MUTE button. ■ Try another channel. The problem may be with the broadcast. ■ Are the audio cables installed properly?
No output from one of the speakers	■ Adjust Balance in menu option.
Unusual sound from inside the product	■ A change in ambient humidity or temperature may result in an unusual noise when the product is turned on or off and does not indicate a fault with the product.

There is a problem in PC mode. (Only PC mode applied)

The signal is out of range	■ Adjust resolution, horizontal frequency, or vertical frequency. ■ Check the input source.
Vertical bar or stripe on background & Horizontal Noise & Incorrect position	■ Work the Auto configure or adjust clock, phase, or H/V position. (Option)
Screen color is unstable or single color	■ Check the signal cable. ■ Reinstall the PC video card.

MAINTENANCE

Early malfunctions can be prevented. Careful and regular cleaning can extend the amount of time you will have your new TV. Be sure to turn the power off and unplug the power cord before you begin any cleaning.

Cleaning the Screen

- 1 Here's a great way to keep the dust off your screen for a while. Wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen.
- 2 Make sure the excess water is off the screen, and then let it air-dry before you turn on your TV.

Cleaning the Cabinet

- To remove dirt or dust, wipe the cabinet with a soft, dry, lint-free cloth.
- Please be sure not to use a wet cloth.

Extended Absence

CAUTION

- If you expect to leave your TV dormant for a long time (such as a vacation), it's a good idea to unplug the power cord to protect against possible damage from lightning or power surges.

PRODUCT SPECIFICATIONS

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

MODEL		32PC5RV (32PC5RV-UG)
Dimensions (Width x Height x Depth)	including stand	32.3 x 23.8 x 10.1 inches 819.9 x 603.8 x 255.4 mm
	excluding stand	32.3 x 21.8 x 3.1 inches 819.9 x 554.2 x 78.1 mm
Weight	including stand	36.8 pounds / 16.7 kg
	excluding stand	34.8 pounds / 15.8 kg
Power requirement Television System Program Coverage External Antenna Impedance		AC100-240V -50/60Hz NTSC VHF 2 ~ 13, UHF 14 ~ 69, CATV 1 ~ 135 75 ohm
Environment condition	Operating Temperature Operating Humidity	32 ~ 104°F (0 ~ 40°C) Less than 80%
	Storage Temperature Storage Humidity	-4 ~ 140°F (-20 ~ 60°C) Less than 85%

LG Electronics Inc.