Life's Good

LG

LG Electronics Inc.

LCD TV | PLASMA TV
OWNER'S MANUAL

LCD TV MODELS
26LC2R*
32LC2R*

PLASMA TV MODELS
42PC3RV*

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.

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 main-
tenance (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.

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 com-
ply with the limits for a Class B digital device, pur-
suant 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 fre-
quency 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 televi-
sion 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 con-
  nected.
- 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

1

WARNING

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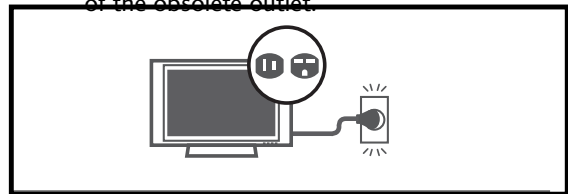
6. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

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

2

8 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

9 Unplug this apparatus during lightning storms or when unused for long periods of time.
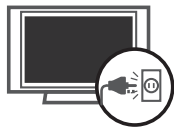
10 Refer all servicing to qualified service person-nel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has exposed to rain or moisture, does not operate normally, or has been dropped.

11 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.

12 Outdoor Use Marking :
WARNING - To Reduce The Risk Of Fire Or Electric Shock, Do Not Expose This Appliance To Rain Or Moisture

13 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.

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CONTENT

TV MENU

APPENDIX

CONTENT

5

INTRODUCTION

What is a Plasma TV ?

Using plasma is the best way to achieve flat panel displays with excellent image quality and large screen sizes that are easily viewable. The Plasma TV can be thought of as a descendant of the neon lamp and or a series of fluorescent lamps.

How does it work?

Plasma TV is an array of cells, known as pixels, which are comprised of three sub-pixels, corresponding to the colors red, green, and blue. Gas in a plasma state is used to react with phosphors in each sub-pixel to produce colored light (red, green, or blue). These phosphors are the same types used in Cathode Ray Tube (CRT) devices such as televisions and common computer monitors.

Plasma TV offers a rich, dynamic display because each sub-pixel is individually controlled by advanced electronics to produce over 16 million different colors. This means that you get perfect images that are easily viewable in a display that is fewer than five inches thick.

160˚ - Wide angle range of vision

Your flat panel plasma screen offers an exceptionally broad viewing angle of over 160 degrees. This means that the display is clear and visible to viewers anywhere in the room.

Wide Screen

The wide screen offers a theater-like experience in your own home.

Multimedia

Connect your plasma display to a PC and use it for conferencing, games, and Internet browsing. The Picture-in-Picture feature allows you to view your PC and video images simultaneously.

Versatile

The light weight and thin size makes it easy to install your plasma display in a variety of locations where conventional TVs do not fit.

The Plasma TV Manufacturing Process: a few minute colored dots may be present on the Plasma TV screen

The Plasma TV is composed of 0.9 to 2.2 million cells. A few cell defects will normally occur in the Plasma TV manufacturing process. Several tiny, minute colored dots visible on the screen should be acceptable. This also occurs in other Plasma TV manufacturers' products. The tiny dots appearing does not mean that this Plasma TV is defective. Thus a few cell defects are not sufficient cause for the Plasma TV to be exchanged or returned. Our production technology minimizes these cell defects during the manufacture and operation of this product.

Cooling Fan Noise

In the same way that a fan is used in a PC computer to keep the CPU (Central Processing Unit) cool, the Plasma TV is equipped with cooling fans to cool the Monitor and improve its reliability. Therefore, a certain level of noise could occur while the fans are operating and cooling the Plasma TV.

The fan noise doesn't have any negative effect on the Plasma TV's efficiency or reliability. The noise from these fans is normal during the operation of this product. We hope you understand that a certain level of noise from the cooling fans is acceptable and is not sufficient cause for the Plasma TV to be exchanged or returned.

FOR LCD TV

If the TV feels cold to the touch, there may be a small "flicker" when it is turned on. This is normal, there is nothing wrong with TV.

Some minute dot defects may be visible on the screen, appearing as tiny red, green, or blue spots. However, they have no adverse effect on the monitor's performance.

Avoid touching the LCD screen or holding your finger(s) against it for long periods of time. Doing so may produce some temporary distortion effects on the screen.

On Disposal

a. The fluorescent lamp used in this product contains a small amount of mercury.

b. Do not dispose of this product with general household waste.

c. Disposal of this product must be carried out in accordance to the regulations of your local authority.

ACCESSORIES

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

User Guide

LG
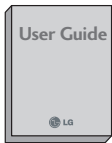
Owner's Manual	Batteries	Remote Control	Power Cord	Soft cloth
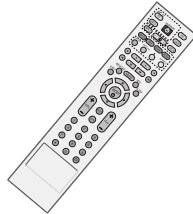
For 42PC1RV

2-Wall brackets   2-eye-bolts   2-bolts for stand assembly
See below for detail information.

For 26/32LC2R

2-TV brackets
2-Wall brackets

Twister Holder
Arrange the wires
with the twister holder.

**Cable
Management**

32LC2R only

4-bolts for stand assembly
See below for detail information.

2-bolts

INTRODUCTION

CONTROLS

This is the front panel of models 42PC3RV* TVs.

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

Front Panel Controls

CHANNEL Buttons

VOLUME Buttons

ENTER Button

MENU Button

INPUT Button

ON/OFF Button

Remote Control Sensor

Power/Standby Indicator
• illuminates red in standby mode.
• illuminates white when the set is switched on.

CONNECTION OPTION

This manual explains the features available on the 42PC3RV∗ .

▪ Here shown may be somewhat different from your TV.
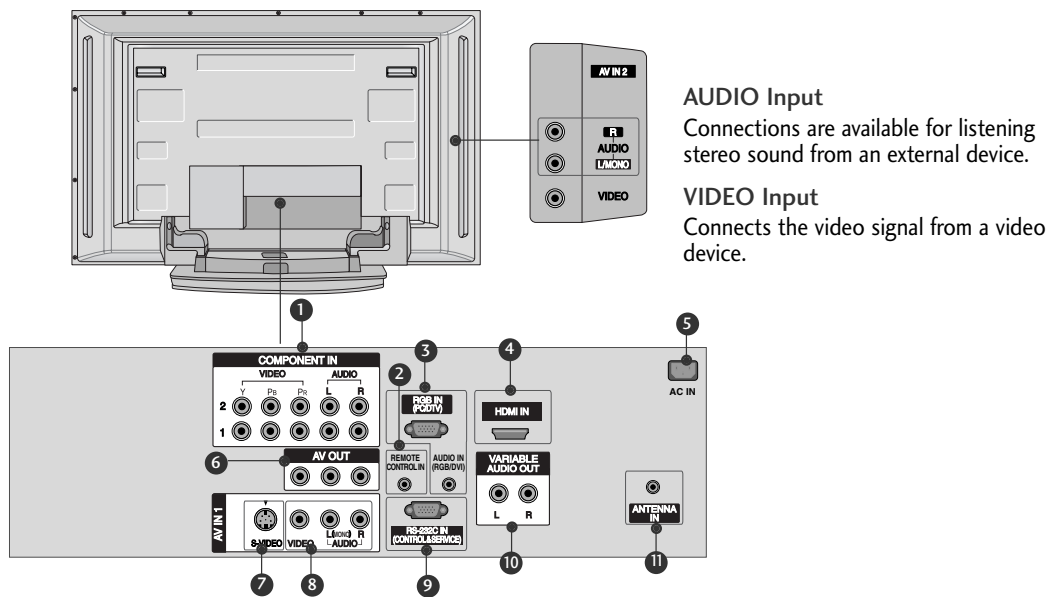
Back Connection Panel

AUDIO Input
Connections are available for listening stereo sound from an external device.

VIDEO Input
Connects the video signal from a video device.

❶ **Component Input 1/2**
Connect a component video/audio device to these jacks.

❷ **Remote Control Port**
Connect your wired remote control here.

❸ **RGB/Audio Input**
Connect the monitor output from a PC to the appropriate input port.

❹ **HDMI**
Connect a HDMI signal to HDMI port with HDMI cable.

❺ **Power Cord Socket**
This TV operates on an AC power. The voltage is indicated on the product Specifications page. Never attempt to operate the TV on DC power.

❻ **AV OUT**
Connect a second TV or Monitor.

❼ **S-Video Input**
Connect S-Video out from an S-VIDEO device.

❽ **Audio/Video Input**
Connect audio/video output from an external device to these jacks.

❾ **RS-232C INPUT**(CONTROL/SERVICE)**PORT**
Connect the serial port of the control devices to the RS-232C jack.

❿ **Variable Audio Output**
Connect an external amplifier or add a subwoofer to your surround sound system.

⓫ **Antenna Input**
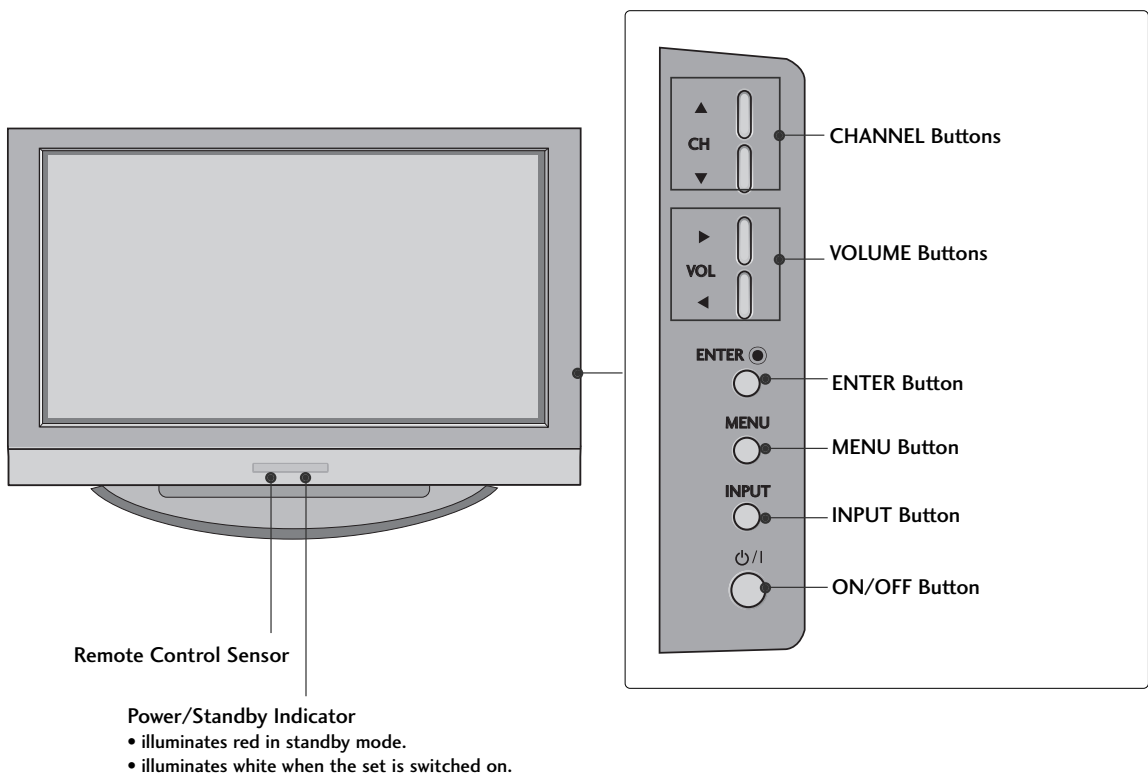Connect over-the-air signals to this jack.

INTRODUCTION

CONTROLS

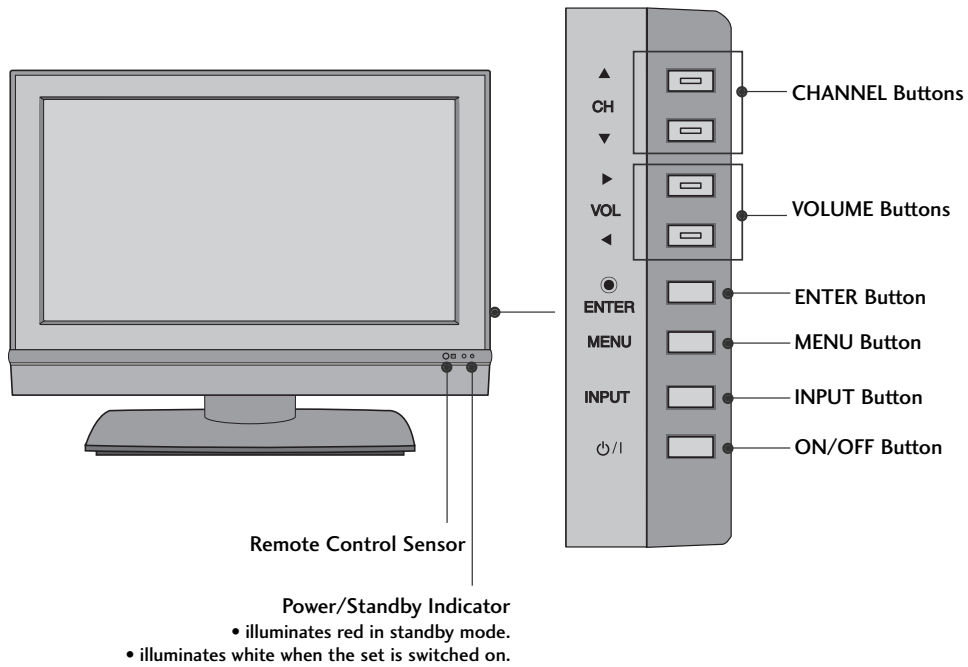**This is the front panel of models 26/32LC2R TVs.**
■ This is a simplified representation of the front panel. Here shown may be somewhat different from your TV.
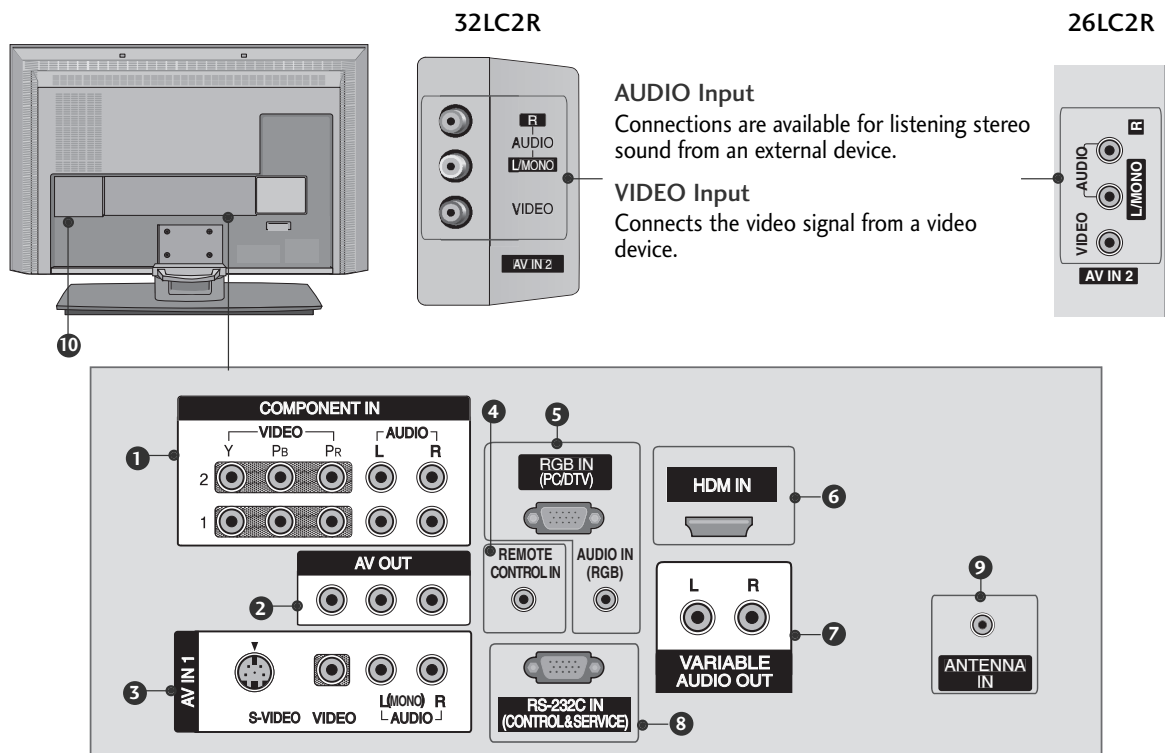
Front Panel Controls

CHANNEL Buttons

VOLUME Buttons

ENTER Button

MENU Button

INPUT Button

ON/OFF Button

Remote Control Sensor

Power/Standby Indicator
• illuminates red in standby mode.
• illuminates white when the set is switched on.

CONNECTION OPTIONS

This manual explains the features available on the 26/32C2R∗ .

■ Here shown may be somewhat different from your TV.

Back Connection Panel

32LC2R

26LC2R

AUDIO Input
Connections are available for listening stereo sound from an external device.

VIDEO Input
Connects the video signal from a video device.

R
AUDIO
L/MONO
VIDEO
AV IN 2

AUDIO
R
L/MONO
VIDEO
AV IN 2

COMPONENT IN
VIDEO
Y PB PR
AUDIO
L R
2
1

④ ⑤
RGB IN
(PC/DTV)

HDMI IN ⑥

AV OUT ②

REMOTE
CONTROL IN
AUDIO IN
(RGB)

L R

⑨

VARIABLE
AUDIO OUT ⑦

ANTENNA
IN

AV IN 1 ③
S-VIDEO VIDEO L(MONO) R
AUDIO

RS-232C IN
(CONTROL&SERVICE) ⑧

⑩

① **COMPONENT IN**
Connect a component video/audio device to these jacks.

② **AV OUT**
Connect a second TV or monitor.

③ **AV (Audio/Video) IN 1**
Connect audio/video output from an externa device to these jacks.
S-VIDEO
Connect S-Video out from an S-VIDEO device.

④ **Remote Control Port**
Connect your wired remote control.

⑤ **RGB/AUDIO IN**
Connect the output from a settop box or PC to the appropriate input port.

⑥ **HDMI IN**
Connect a HDMI signal.
Or DVI(VIDEO)signal to the this port with a DVI to HDMI cable.

⑦ **VARIABLE AUDIO OUT**

⑧ **RS-232C IN (CONTROL &SERVICE) PORT**
Connect to the RS-232C port on a PC.

⑨ **ANTENNA IN**

⑩ **Power Cord Socket**
For operation with AC power.
Caution: Never attempt to operate the TV on DC power.

11

INTRODUCTION

REMOTE CONTROL KEY 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 mode.	
TV INPUT	Returns to the TV mode.	
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, Video1, Video2, Component 1, Component 2, RGB, or HDMI).	

ARC	Selects your desired picture format. ▶ **Refer to p.60**
Brightness adjustment	Adjusts screen brightness. It returns to the default settings brightness by changing mode source.

PIP	Switches the sub picture PIP, DW mode.
SIZE	Adjusts the sub picture size.
POSITION	Moves the sub picture.
PIP CH - /+	Selects a program for the sub picture.
PIP INPUT	Selects the input source for the sub picture in PIP/Twin picture mode.

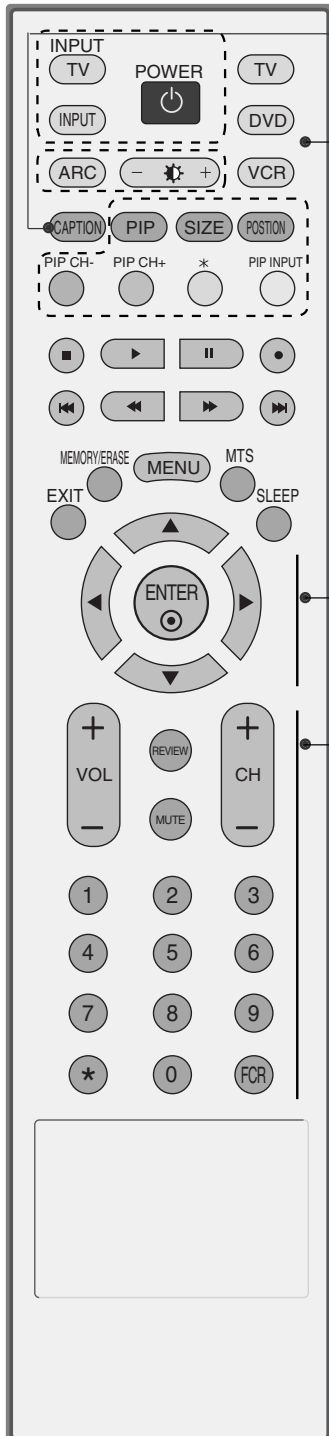|	
VCR/DVD control buttons	Controls some video cassette recorders or DVD players when you have already selected DVD or VCR mode button.

EXIT	Clears all on-screen displays and returns to TV viewing from any menu.
MEMORY/ERASE	Memorizes or erases selected channel.
MENU	Selects a menu.
MTS	Selects the MTS sound: **Mono**, **Stereo**, or **SAP**.
SLEEP	Sets the sleep timer.

CAPTION	Selects CAPTION mode.
THUMBSTICK (Up/Down/Left Right)	Allows you to navigate the on-screen menus and adjust the system settings to your preference.
ENTER	Accepts your selection or displays the current mode.
MODE	Selects the remote operating modes.

|	
VOLUME UP /DOWN	Increases/decreases the sound level.
REVIEW	Returns to the previously viewed program.
MUTE	Switches the sound on or off.
CHANNEL UP/DOWN	Selects available channels found during Manual scan.
0~9 number button	Selects a program. Selects numbered items in a menu.
FCR	Selects a favorite program.

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.
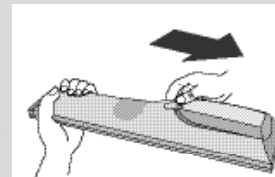
Remote control effective range

■ 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.

13
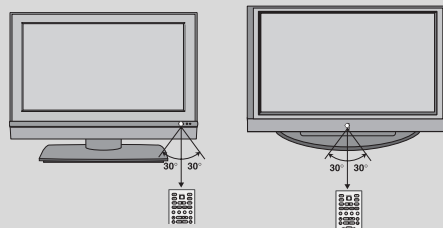
INSTALLATION

UNFOLDING THE STAND BASE

1 Place the set with the screen facing down on a cushion or soft cloth as shown.
Before unfolding the stand, please make sure two locks (A) on the bottom of the stand push outward.

(A)
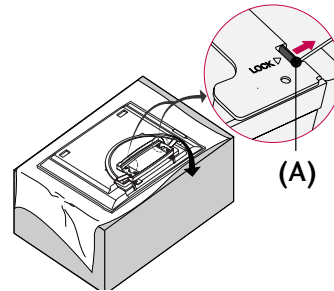
2 Pull the stand out as shown.
After unfolding the stand, please insert and tighten the screws (provided as parts of the product) in the holes (B) on the bottom of the stand.

(B)
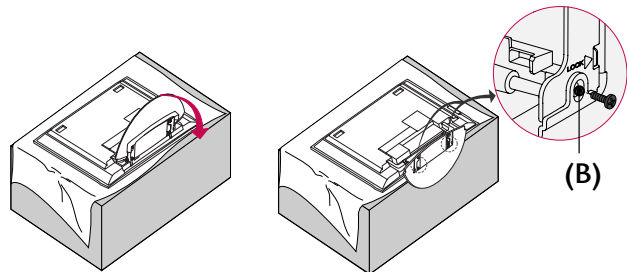
3 When connecting cables to the set, Do not disengage the lock (C).
This may cause the set to fall, causing serious bodily injury and serious damage to the set.

(C)

---
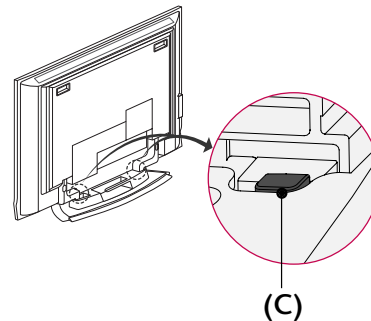
❶ NOTE

Image shown here may be slightly different from your set.

▶ **When closing the stand for storage**

■ First remove the screws in the holes (B) on the bottom of the stand. And then pull two Hooks (D) of the stand bottom and fold the stand into the back of the set.

■ After folding, push the two Locks (A) of the stand bottom outward.

(A)

(B)

(D)
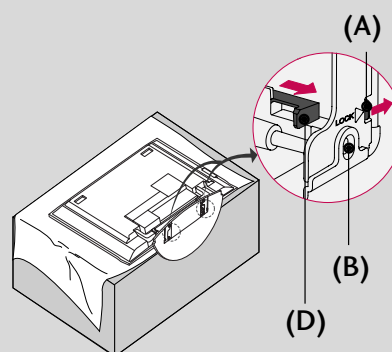
INSTALLATION

STAND INSTALLATION

Stand Installation for 32LC2R

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

2 Place the product stand on the product as shown.

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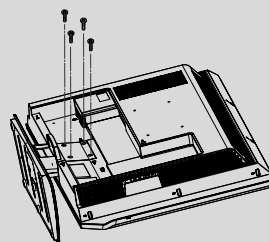
INSTALLATION

DESKTOP PEDESTAL INSTALLATION

For proper ventilation, allow a clearance of 4inches on each side from the wall.
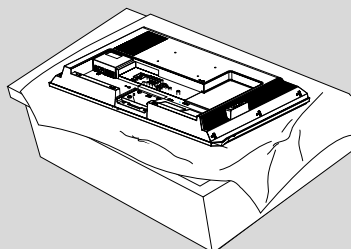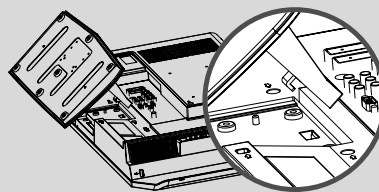
42PC1D*/42PC3D*/50PC1D*/50PC3D*

4 inches

4 inches   4 inches   4 inches

32/37/42LC2D*

4 inches

4 inches   4 inches   4 inches
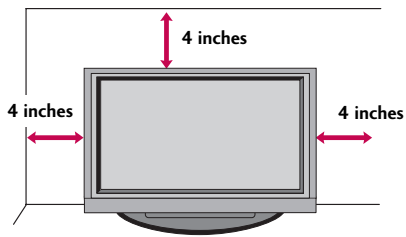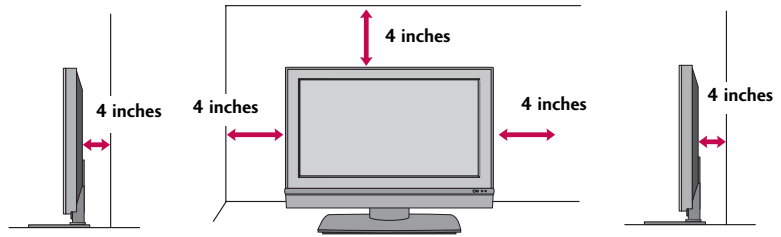
⚠ CAUTION

▶ Ensure adequate ventilation by following the clearance recommendations.

■ Here shown may be somewhat different from your TV.

Power Supply

Short-circuit Breaker
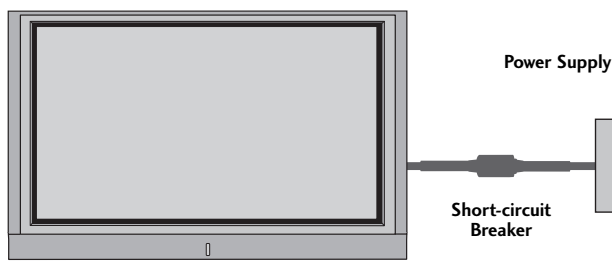
GROUNDING

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.

ATTACHING THE TV TO A WALL

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.

42PC1RV
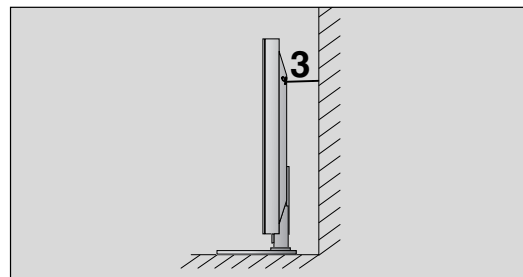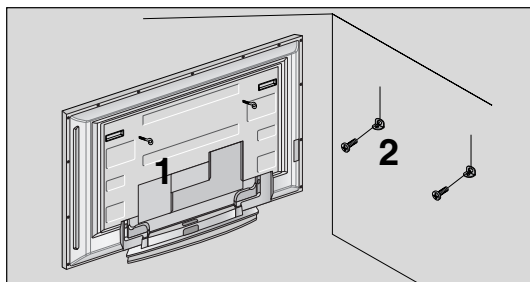
26/32LC2R
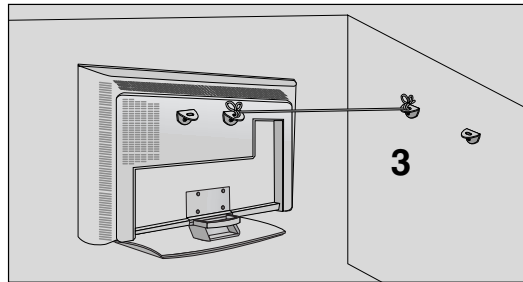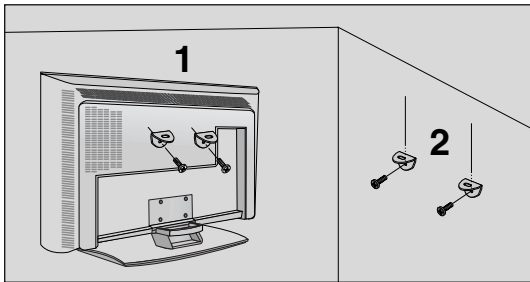
❶ ■ Insert the eye-bolts (or TV brackets and bolts) to tighten the product to the wall as shown in the picture.

❷   * If your product has the bolts in the eye-bolts position before inserting the eye-bolts, loosen the bolts.

❸   Secure the wall brackets with the bolts (not provided as parts of the product, must purchase separately)
   on 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.

🛈 **NOTE**

■ 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.

INSTALLATION

BASIC CONNECTION (42PC1RV)

■ These models have two cable arrangement methods according to the stand type.

Arrange the cables as shown picture.
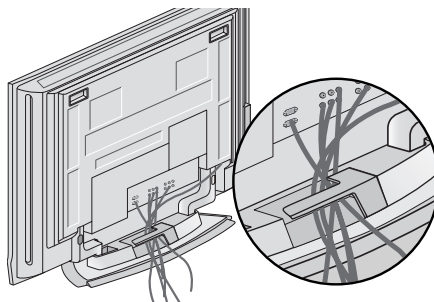
1 Hold the **CABLE MANAGEMENT** with both hands and push it as shown.
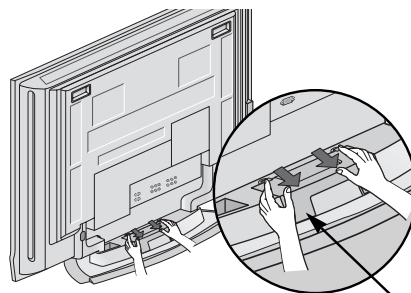
CABLE MANAGEMENT

2 Connect the cables as necessary.

To connect an additional equipment, see the **External equipment Connections** section.
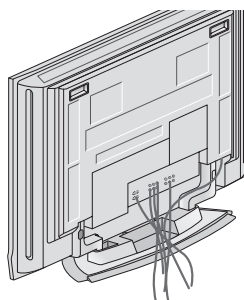
3 Reinstall the **CABLE MANAGEMENT** as shown.
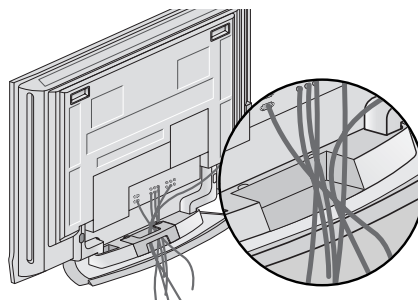
WIRE ARRANGEMENT (Only 26/32LC2R)

This function explains the features available on the 26/32LC2R.

1 Connect the cables as necessary.

After connecting the cables neatly, arrange the cables to the Cable Holder.

To connect an additional equipment, see the **External equipment Connections** section.
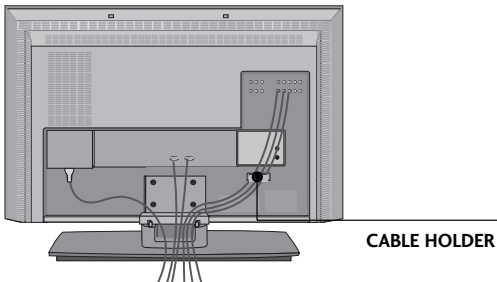
CABLE HOLDER

2 Install the **CABLE MANAGEMENT** as shown.
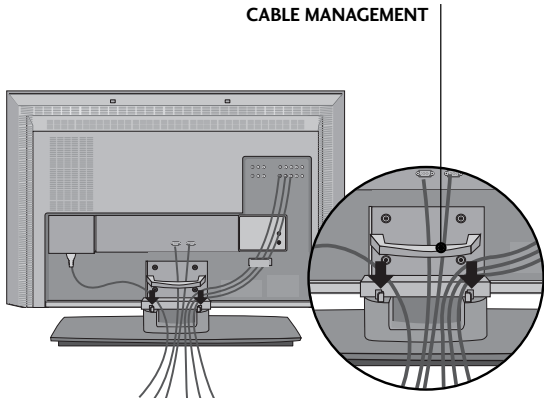
CABLE MANAGEMENT

3 Bundle the cables using the supplied twister holder.

TWISTER HOLDER
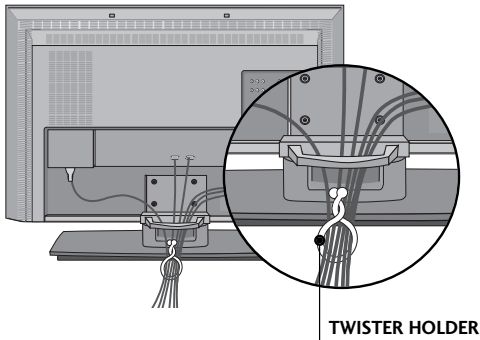
How to remove the CABLE MANAGEMENT

▶ Hold the **CABLE MANAGEMENT** with both hands and pull it upward.

⊘ NOTE

▶ Do not hold the **CABLE MANAGEMENT** when moving the product.

- If the product is dropped, you may be injured or the product may be broken.

CONNECTIONS & SETUP

ANTENNA CONNECTION

■ For optimum picture quality, adjust antenna direction.

■ An antenna cable and converter are not supplied.

**Multi-family Dwellings/Apartments
(Connect to wall antenna socket)**

Wall Antenna Socket

RF Coaxial Wire (75 ohm)

ANTENNA
IN

VHF Antenna

UHF Antenna

Turn clockwise to tighten.

Outdoor Antenna

**Single-family Dwellings /Houses
(Connect to wall jack for outdoor antenna)**
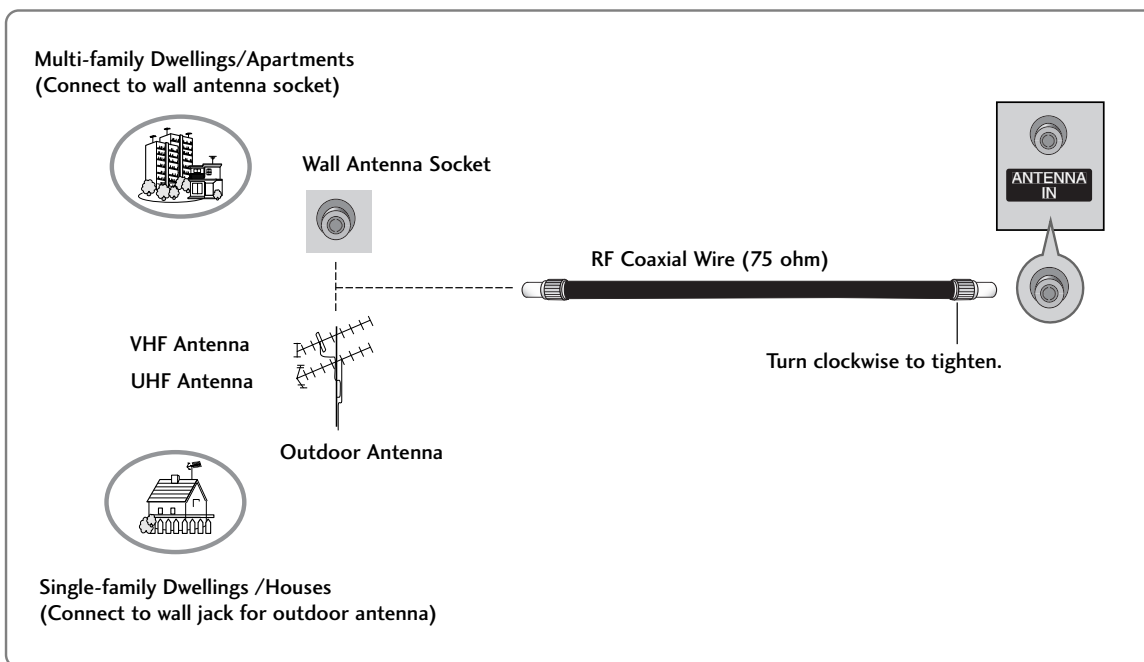
■ In poor signal areas, to get better picture quality,
install a signal amplifier to the antenna as
shown to the right.

■ If signal needs to be split for two TVs, use an
antenna signal splitter for connection.

VHF

UHF

ANTENNA
IN

Signal
Amplifier
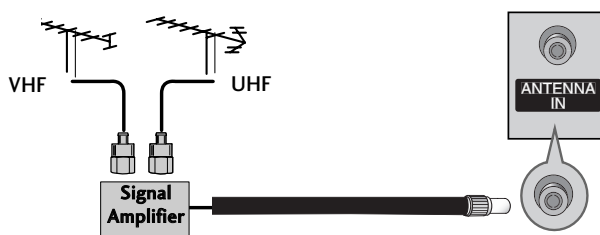
VCR SETUP

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

When connecting with an antenna

❶ Connect the **ANT OUT** socket of the VCR to the **ANTENNA IN** socket on the set.

❷ Connect the antenna cable to the RF antenna socket of the VCR.

❸ Press the **PLAY** button on the VCR and match the appropriate programme between the TV and VCR for viewing.
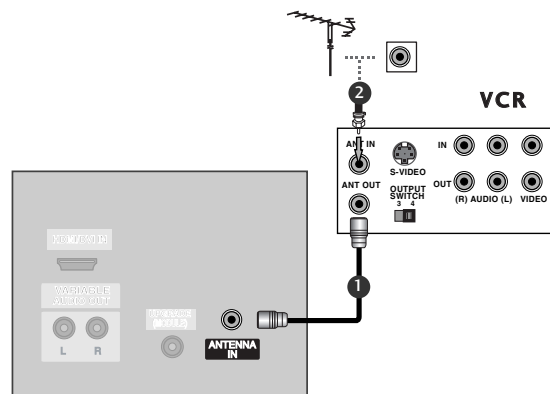
When connecting with a RCA cable

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

❷ Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)

❸ Select **AV1** input source using the **INPUT** button on the remote control.
- If connected to **AV IN 2**, select **AV2** input source.
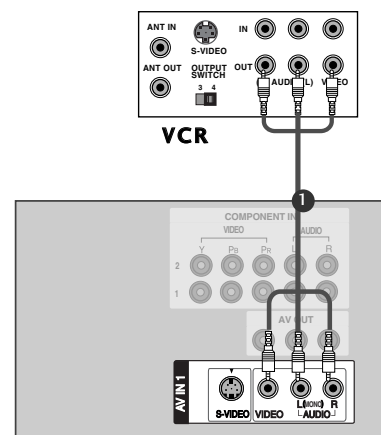
❗ **NOTE**
▶ If you have a mono VCR, connect the audio cable from the VCR to the **AUDIO L/MONO** jack of the set.

CONNECTIONS & SETUP

VCR SETUP

When connecting with an S-Video cable

① Connect the S-VIDEO output of the VCR to the **S-VIDEO** input on the set. The picture quality is improved; compared to normal composite (RCA cable) input.

② Connect the audio outputs of the VCR to the **AUDIO** input jacks on the set.

③ Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)

④ Select **AV1** input source with using the **INPUT** button on the remote control.

VCR
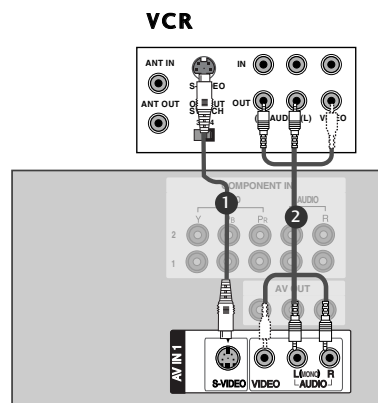
🔴 NOTE

▶ If both S-VIDEO and VIDEO sockets have been conneced to the S-VHS VCR simultaneously, only the S-VIDEO can be received.

EXTERNAL EQUIPMENT CONNECTIONS

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 Select **AV2** input source with using the **INPUT** button on the remote control.
- If connected to **AV IN1** input, select **AV1** input source.

③ Operate the corresponding external equipment. Refer to external equipment operating guide.

Camcorder

Video Game Set
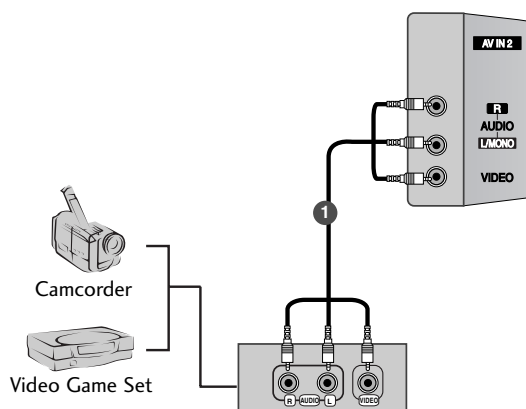
DVD SETUP

When connecting with a component cable

① Connect the video outputs (Y, P$_B$, P$_R$) of the DVD to the **COMPONENT IN VIDEO** jacks on the set.

② Connect the audio outputs of the DVD to the **COMPONENT IN AUDIO** jacks on the set.

③ Turn on the DVD player, insert a DVD.

④ Select **Component2** input source using the **INPUT** button on the remote control.
- If connected to **Component 1**, select **Component1** input source.

⑤ Refer to the DVD player's manual for operating instructions.
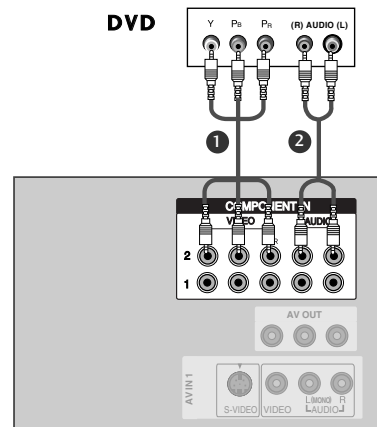
❶ NOTE

▶ **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	Pb	Pr
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	P$_B$	P$_R$

When connecting with a S-Video cable

① Connect the S-VIDEO output of the DVD to the **S-VIDEO** input on the set.

② Connect the audio outputs of the DVD to the **AUDIO** input jacks on the set.

③ Turn on the DVD player, insert a DVD.

④ Select **AV1** input source with using the **INPUT** button on the remote control.

⑤ Refer to the DVD player's manual for operating instructions.
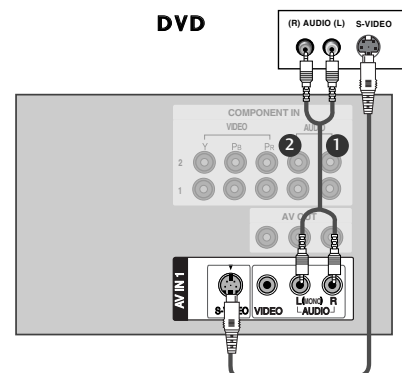
CONNECTIONS & SETUP

When connecting with a HDMI cable

1 Connect the HDMI output of the DVD to the **HDMI IN** jack on the set.

2 Select **HDMI** input source with using the **INPUT** button on the remote control.

3 Refer to the DVD player's manual for operating instructions.
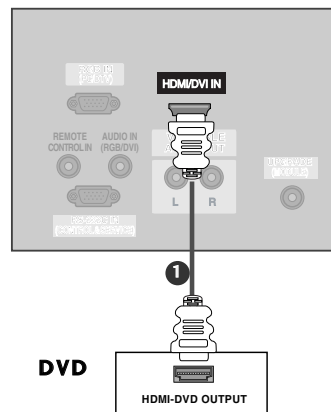
HDMI/DVI IN

REMOTE
CONTROL IN

AUDIO IN
(RGB/DVI)

L   R

❶

DVD

HDMI-DVD OUTPUT

ⓘ NOTE

▶ TV can receive the video and audio signal simultaneously with using a HDMI cable.

▶ If the DVD supports Auto HDMI function, the DVD output resolution will be automatically set to 1280x720p.

▶ If the DVD does not support Auto HDMI, you need to set the output resolution appropriately. To get the best picture quality, adjust the output resolution of the DVD to 1280x720p.

STB (SET-TOP BOX) SETUP

When connecting with a component cable

**Digital
Set-top Box**

1 Connect the video outputs (Y, P$_B$, P$_R$) of the digital set-top box to the **COMPONENT IN VIDEO** jacks on the set.

2 Connect the audio output of the digital set-top box to the **COMPONENT IN AUDIO** jacks on the set.

3 Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)

4 Select **Component2** input source using the **INPUT** button on the remote control.
- If connected to **Component 1**, select **Component1** input source.

❗ NOTE

Signal	Component	RGB-DTV	HDMI
480i	Yes	No	Yes
480p/720p/1080i	Yes	Yes	Yes

When connecting with a HDMI to DVI cable

1 Connect the DVI output of the digital set-top box to the **HDMI IN** jack on the set.

2 Connect the audio outputs of the set-top box to the **AUDIO IN (RGB/DVI)** jack on the set.

3 Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)

4 Select **HDMI** input source with using the **INPUT** button on the remote control.
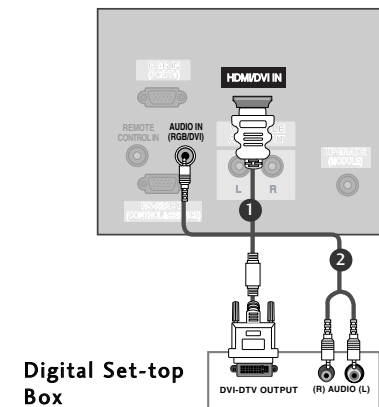
**Digital Set-top
Box**

❗ NOTE

► If the digital set-top box has a DVI output and no HDMI output, a separated audio connection is necessary.

► If the digital set-top box supports Auto DVI function, the output resolution of the digital set-top box will be automatically set to 1280x720p.

► If the digital set-top box does not support Auto DVI, you need to set the output resolution appropriately. To get the best picture quality, adjust the output resolution of the digital set-top box to 1280x720p.

CONNECTIONS & SETUP

When connecting with a D-sub 15 pin cable

1 Connect the RGB output of the digital set-top box to the **RGB IN (PC/DTV)** jack on the set.

2 Connect the audio outputs of the set-top box to the **AUDIO IN (RGB/DVI)** jack on the set.

3 Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)

4 Select **RGB-DTV** input source with using the **INPUT** button on the remote control.
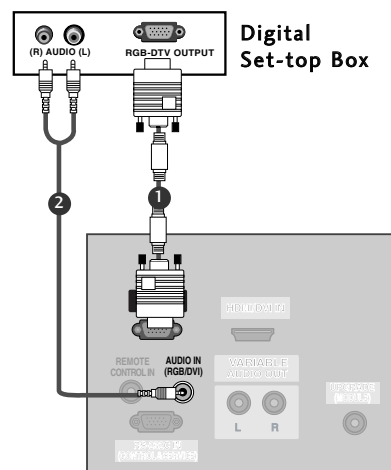
When connecting with a HDMI cable

1 Connect the HDMI output of the digital set-top box to the **HDMI IN** jack on the set.

2 Select **HDMI** input source with using the **INPUT** button on the remote control.

3 Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
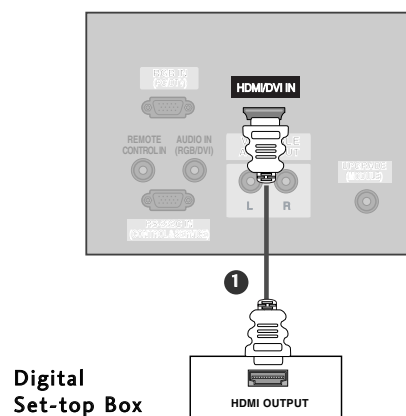
---

❶ NOTE

▶ TV can receive the video and audio signal simultaneously with using a HDMI cable.

▶ If the digital set-top box supports Auto HDMI function, output resolution of the digital set-top box will be automatically set to 1280x720p.

▶ If the digital set-top box does not support Auto HDMI, you need to set the output resolution appropriately. To get the best picture quality, adjust the output resolution of the digital set-top box to 1280x720p.

PC SETUP

■ This TV provides Plug and Play capability, meaning that the PC adjusts automatically to the TV's settings.
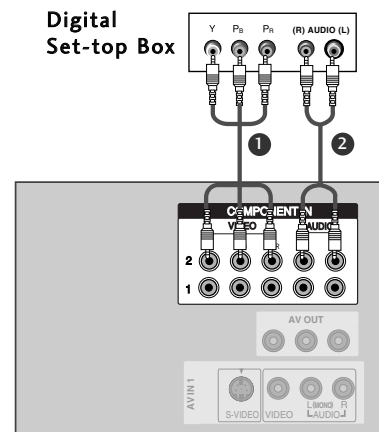
When connecting with a D-sub 15 pin cable

1 Connect the RGB output of the PC to the **RGB IN (PC/DTV)** jack on the set.

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

3 Turn on the PC and the set.

4 Select **RGB-PC** input source with using the **INPUT** button on the remote control.
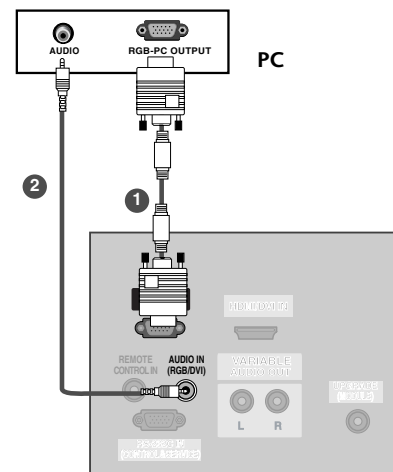
❗ NOTE

❶ To enjoy vivid picture and sound, connect a PC to the set.

❷ Avoid keeping a fixed image on the set's screen for a long period of time. The fixed image may become permanently imprinted on the screen; use a screen saver when possible.

❸ Connect PC to the RGB INPUT(PC INPUT) port of the set; change the resolution output of PC accordingly.

❹ There might be a noise according to some resolution, vertical pattern, contrast or brightness in PC mode. Then change the PC mode into other resolution or change the refresh rate into other rate or adjust the brightness and contrast on the menu until the picture is clean. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult it to the manufacturer of the PC graphic card.

❺ The synchronization input form for Horizontal and Vertical frequencies is separate.

❻ We recommend using 640x480, 60Hz (42PC1RV) /1360x768, 60Hz (26/32LC2R) for the PC mode, they provide the best picture quality.

❼ If the resolution of PC is over UXGA, there will be no picture on the set.

❽ Connect the audio cable from the PC to the Audio input on the set. (Audio cables are not included with the set).

❾ When you use too long RGB-PC cable, there might be a noise on the screen. We recommend using under 5m of the cable. It provides the best picture quality.

❿ This set does not support HDMI-PC

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CONNECTIONS & SETUP

Supported Display Resolution (RGB[PC] mode) (26/32LC2R)

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
640x350	31.5	70.8
720x400	31.5	70.8
640x480	31.5	59.9
800x600	37.9	60.3
1024x768	48.4	60.0
1280x768	47.8	59.9
1360x768	47.7	59.8
1366x768	47.7	59.8

Supported Display Resolution (RGB[PC] mode) (42PC1RV)

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
640x350	31.5	70.8
720x400	31.5	70.8
640x480	31.5	59.9
848x480	31.5	60.0
852x480	31.5	60.0
800x600	37.9	60.3
1024x768	48.4	60.0

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BASIC OPERATION

TURNING THE TV ON

1 First, connect power cord correctly.
At this moment, the TV switches to standby mode.
- In standby mode to turn TV on, press the ⏻/| , **INPUT**, **CH ▲ / ▼** button on the TV or press the **POWER, TV, INPUT, CH +/-, Number(0~9)** button on the remote control and then the TV will switch on.

CHANNEL SELECTION

1 Press the **CH +/-** or **NUMBER** buttons to select a channel number.

VOLUME ADJUSTMENT

Adjust the volume to suit your personal preference.

1 Press the **VOL +/-** 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 +/-** or **MTS** button.

❶ **NOTE**
▶ If you intend to be away on vacation, disconnect the power plug from wall power outlet.

BASIC OPERATION

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

SPECIAL FUNCTIONS | PIP / Twin Picture

PIP (Picture-In-Picture)

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.

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

Watching PIP

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

PIP Mode   Twin Picture Mode

PIP Off
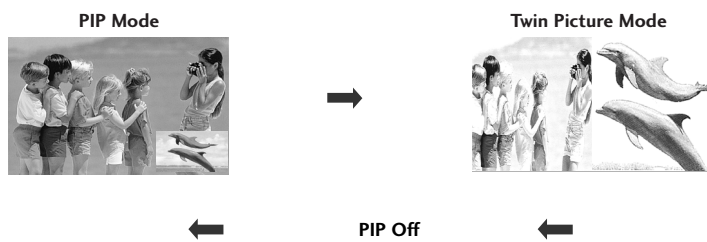
TV Program Selection for PIP

1   Press the **PIP CH +/-** button to select a programme for the sub picture.

Press the selected channel number is displayed just below the channel number of main picture.

Selecting an Input Signal Source for PIP/Twin Picture

Press the **PIP INPUT** button to select the input source for the sub picture.
Each press of **PIP INPUT** button is pressed, each input source for the sub picture is displayed.

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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 left.
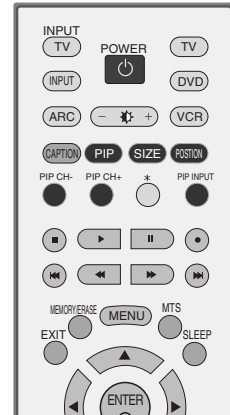
TV MENU

ON SCREEN MENUS SELECTION AND ADJUSTMENT

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.

Channel menu

Channel
Auto program
Manual program
Favorite channel

▲▼ ◀▶ ◉ MENU

Picture menu

Picture
APC
ACC
XD
Advanced
Reset

▲▼ ◀▶ ◉ MENU

Sound menu

Sound	
DASP	
AVL	
Balance	0
Speaker	

▲▼ ◀▶ ◉ MENU

Screen menu

Screen
Auto config.
Manual config.
VGA mode
ARC
Reset
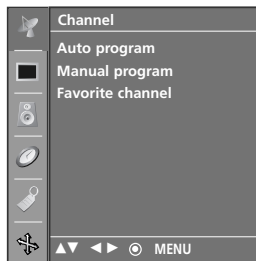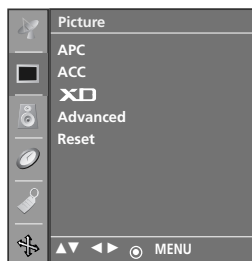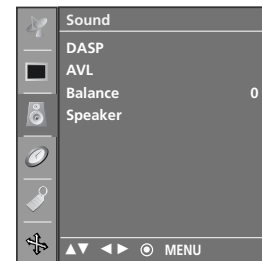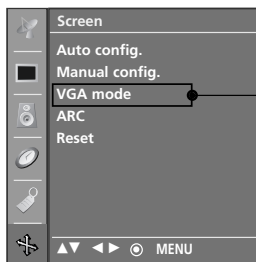
▲▼ ◀▶ ◉ MENU

This menu differ with the model.

Special menu

Special
Language
Key lock
ISM Method
Low Power
Set ID
Caption / Text
Parental
XD Demo
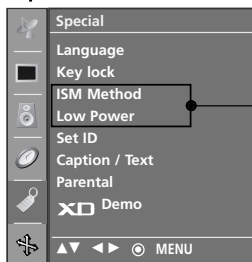
▲▼ ◀▶ ◉ MENU

Only 42PC3RV model

Timer menu

Timer
Clock
Off timer
On timer
Auto off

▲▼ ◀▶ ◉ MENU
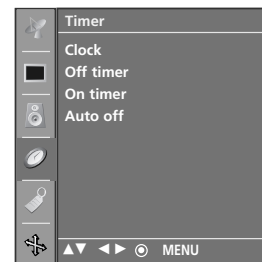
❶ NOTE

a. The OSD (On Screen Display) function enables you to adjust the screen status conveniently since it provides graphical presentation.

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

AUTO PROGRAM: CHANNEL SEARCH

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

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

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

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

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

Broadcast TV Channels	←——→	Cable TV Channels

(For example, press 17 to go to the channel, press 17 again to go
to the duplicated channel.)
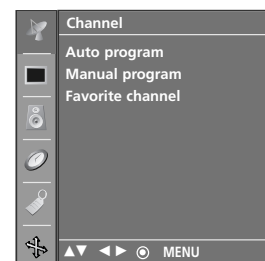
① Press the **MENU** button and then ▲ or ▼ button to select
the **Channel** menu.

② Press the ► button and then ▲ or ▼ button to select
Auto program.

③ Press the ► button. **AUTO PROGRAM** 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.
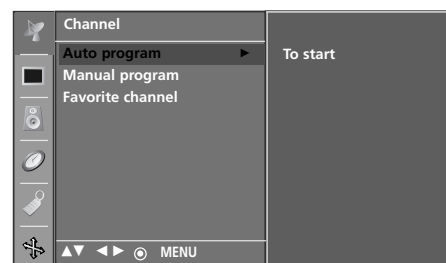
MANUAL PROGRAM: ADDING/DELETING CHANNELS

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

1 Use the ◄ / ► or NUMBER buttons to select the channel number you want to add or delete.

2 Press the **MEMORY/ERASE** button.

• You can also do Manual program with the Channel menu.

■ You can also use the **Channel** menu to adjust **Manual program**.

	Channel	
	Auto program	
	Manual program	
	Favorite channel	

→

	Channel		
	Auto program		
	Manual program ►	TV	7
	Favorite channel	Memory	on
		Fine	0
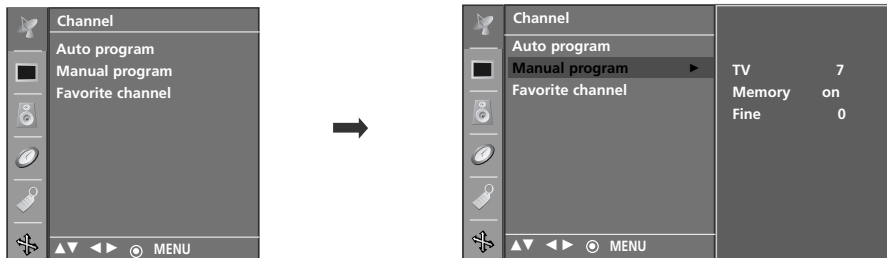
▲▼ ◄► ◉ MENU

FINE TUNING

Normally fine tuning is only necessary if reception is poor.

1 Press the **MENU** button and then ▲ / ▼ button to select the **Channel** menu.

2 Press the ► button and then ▲ / ▼ button to select **Manual program**.

3 Press the ► button and then ▲ / ▼ button to select **Fine**.

4 Press the ◄ / ► button to to fine tune for the best picture and sound.

5 Press the **ENTER** button to store it.

6 Press the **EXIT** button to return to normal TV viewing.
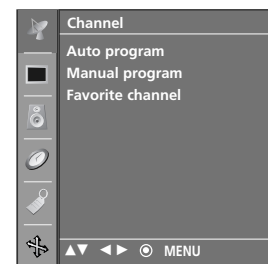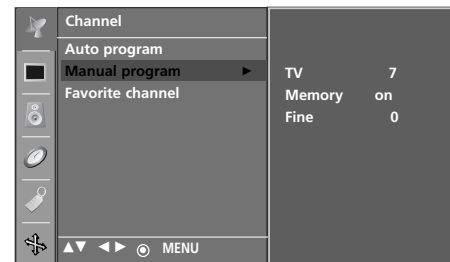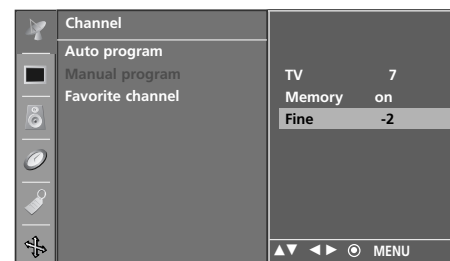
FAVORITE CHANNELS SETUP

This function lets you select your favorite Channels directly.
Repeatedly press the **FCR** button to select stored favorite
Channels.

① Press the **MENU** button and then ▲ / ▼ button to select
the **Channel** menu.

② Press the ▶ button and then ▲ / ▼ button to select
Favorite Channel.

③ Press the ▶ button.

④ Press the ▲ / ▼ button to select - - - - - - -.

⑤ Select a desired programme with the ◀ / ▶ button.

⑥ To store another programme, repeat steps **4** to **5**.
You can store up to 8 programmes.

⑦ Press the **EXIT** button to return to normal TV viewing.

Channel
Auto program
Manual program
Favorite channel

▲▼ ◀▶ ⊙ MENU

❶

Channel	
Auto program	
Manual program	√ ---- ---
Favorite channel ▶	---- ---
	---- ---
	---- ---
	---- ---
	---- ---
	---- ---

▲▼ ◀▶ ⊙ MENU

❷
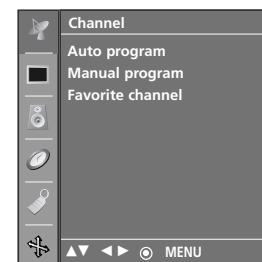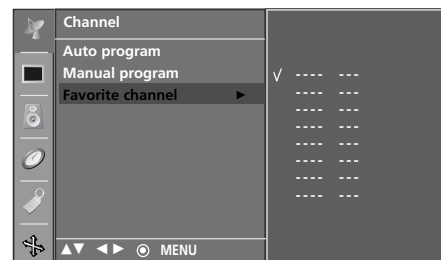
AUTO PICTURE CONTROL (APC)

APC adjusts the TV for the best picture appearance.

Select the preset value in the APC menu based on the programme category.

**Clear**, **Optimum** and **Soft**, Settings are preset for optimum picture quality at the factory and are not adjustable.

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

❷ Press the ▶ button and then ▲ or ▼ button to select **APC**.

❸ Press the ▶ button and then ▲ or ▼ button to select **Clear**, **Optimum**, **Soft**, **User 1**, or **User 2**.

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

Picture	
APC	
ACC	
XD	
Advanced	
Reset	
▲▼ ◄ ► ◉ MENU	

❶

Picture			
APC	►	√ Clear	
ACC		Optimum	
XD		Soft	
Advanced		User 1	
Reset		User 2	
▲▼ ◄ ► ◉ MENU			

❷ ❸

MANUAL PICTURE CONTROL (APC-USER OPTION)

**Adjust the picture appearance to suit your preference and view-
ing situations.**

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

② Press the ► button and then ▲ / ▼ button to select **APC**.

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

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

⑤ Press the ◄ / ► button to make appropriate adjustments.

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

❗ NOTE

► You can't adjust color, sharpness and tint in the RGB-PC
mode to the levels you prefer.

Picture

APC
ACC
XD
Advanced
Reset

▲▼ ◄► ◉ MENU

❶

Picture

APC   ►
ACC
XD
Advanced
Reset

▲▼ ◄► ◉ MENU

Clear
Optimum
Soft
√ User 1
User 2

❷ ❸

User

Contrast   100 ►
Brightness   50
Color   50
Sharpness   50
Tint   0

Contrast   85 ◄ ▬▬▬▬▬▬ ‖‖‖►
▼

▲▼ ◄► ◉ MENU

❹ ❺
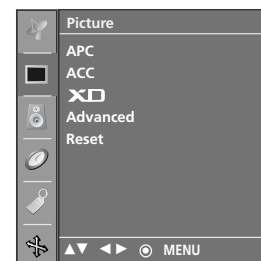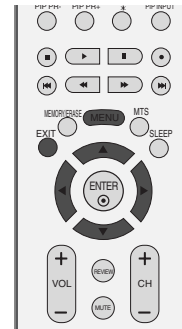
AUTO COLOR TEMPERATURE CONTROL (ACC)

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.

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

2 Press the ► button and then ▲ / ▼ button to select **ACC**.

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

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

Picture
APC
ACC
XD
Advanced
Reset

▲▼ ◄ ► ⊙ MENU

❶

Picture	
APC	
ACC ►	Cool
XD	Normal
Advanced	√ Warm
Reset	User

▲▼ ◄ ► ⊙ MENU

❷ ❸
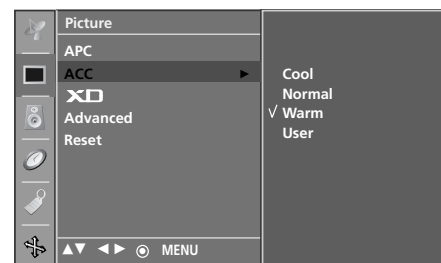
MANUAL COLOR TEMPERATURE CONTROL (ACC - USER OPTION)

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

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

2 Press the ► button and then ▲ / ▼ button to select **ACC**.

3 Press the ► button and then ▲ / ▼ button to select **User**.

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

5 Press the ◄ / ► button to make appropriate adjustments.

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

Picture

APC
ACC
XD
Advanced
Reset

▲▼ ◄► ◉ MENU

1

Picture

APC
ACC ►
XD
Advanced
Reset

Cool
Normal
Warm
√ User

▲▼ ◄► ◉ MENU

2 **3**

User

Red   +30 ►
Green   0
Blue   0

Red   +25 ◄ ▐▐▐▐▐ ►
▼

▲▼ ◄► ◉ MENU
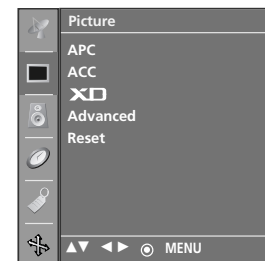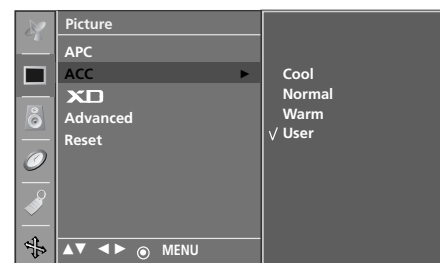
4 **5**

XD

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

When selecting APC options (Clear, Soft and Optimum), XD is automatically changed to Auto.

When selecting APC options (User 1 and User 2), you can choose the Auto / Manual.

When selecting the Manual, you can adjust the XD Contrast, XD color and XD Noise.
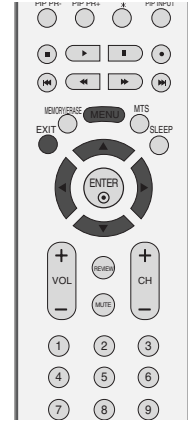
1 Press the **MENU** button and then use ▲ or ▼ button to select the **VIDEO** menu.

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**.
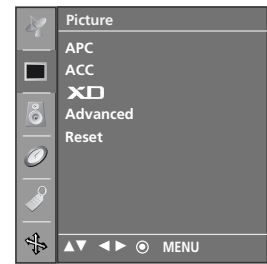
Selecting the Manual

1. Press the ▶ button and then use ◀ or ▶ button to select **XD Contrast**, **XD Color** or **XD 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 Noise :** Removing the noise up to the point where it does not damage the original picture.

2. Use the ▲ or ▼ button to select **On** or **Off**.
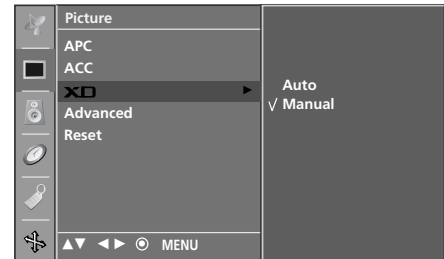
4 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.

ADVANCED-CINEMA MODE SETUP
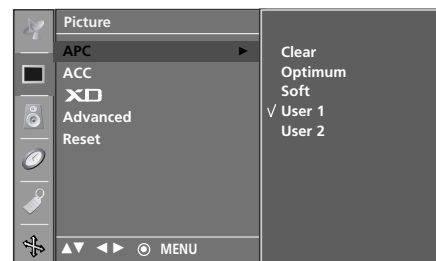
Set up the TV for the best picture appearance for viewing movies.

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, Video and Component 480i mode.

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

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

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

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

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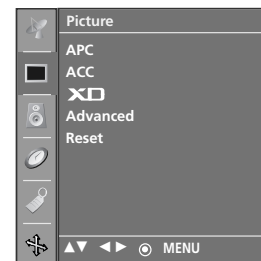
ADVANCED-BLACK LEVEL

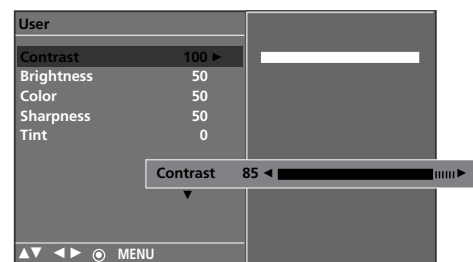Adjusting the contrast and the brightness of the screen using the black level of the screen.
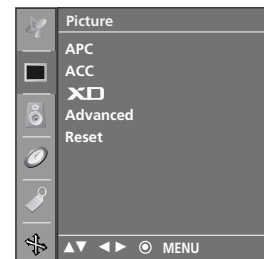
This feature operates only in Video (NTSC-M) or HDMI mode.

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

2 Press the ▶ button and then ▲ / ▼ button to select **Advanced**.

3 Press the ▶ button and then ▲ / ▼ button to select **Black Level**.

4 Press the ▶ button and then ▲ / ▼ button to select **Low** or **High.**

■ **Low**
The screen gets darker.

■ **High**
The screen gets brighter.

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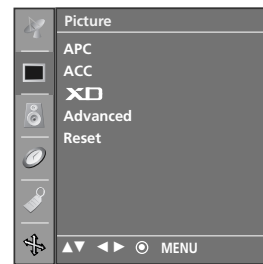
RESET

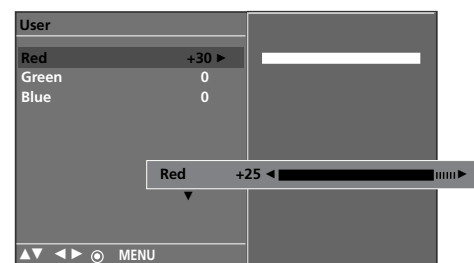**Use to quickly reset all the Video menu options to their original factory preset values.**

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

② Press the ► button and then ▲ / ▼ button to select **Reset**.

③ Press the ► button to initialize the adjusted value.

• Returns to the default settings APC, ACC, XD, Advanced at the factory.

Picture	
APC	
ACC	
XD	
Advanced	
Reset	

▲▼ ◄► ◉ MENU

①

Picture		
APC		
ACC		
XD		
Advanced		
Reset	►	To set

▲▼ ◄► ◉ MENU

② ③
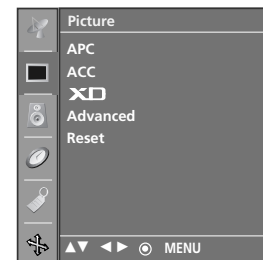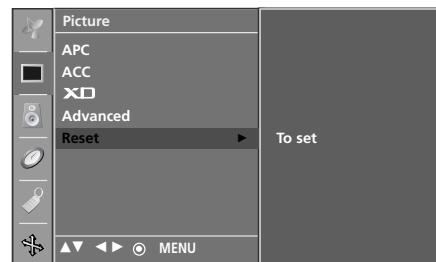
DIGITAL AUTO SOUND PROCESSING (DASP)

You can select your preferred sound setting; Surround Max, Flat, Music, Movie or Sports and you can also adjust the sound frequency of the equalizer.

DASP lets you enjoy the best sound without any special adjustment because the TV sets the appropriate sound options based on the programme content.

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

Surround MAX	Select this option to sound realistic.
Flat	The most commanding and natural audio.
Music	Select this option to enjoy the original sound when listening to the music.
Movie	Select this option to enjoy sublime sound.
Sports	Select this option to watch sports broadcasting.
User	Select this option to use the user-defined audio settings.

① Press the **MENU** button and then ▲ / ▼ button to select the **Sound** menu.

② Press the ► button and then ▲ / ▼ button to select **DASP**.

③ Press the ► button and then ▲ / ▼ button to select **Surround Max**, **Flat**, **Music**, **Movie**, **Sports** or **User**.

④ Press the **EXIT** button to return to TV viewing or press the **MENU** button to return to the previous menu.
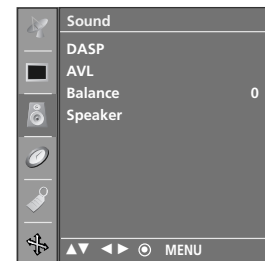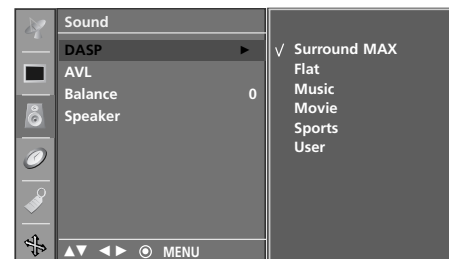
# SOUND FREQUENCY ADJUSTMENT (DASP - USER OPTION)

Adjust the sound equalizer.

① Press the **MENU** button and then ▲ / ▼ button to select the **Sound** menu.

② Press the ► button and then ▲ / ▼ button to select **DASP**.

③ Press the ► button and then ▲ / ▼ button to select **User**.

④ Press the ► button.

⑤ Select a sound band by pressing the ◄ / ► button.
Make appropriate sound level with the ▲ / ▼ button.

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

Sound	
DASP	
AVL	
Balance	0
Speaker	

▲▼ ◄► ⊙ MENU

①

Sound			
DASP	►	√ Surround MAX	
AVL		Flat	
Balance	0	Music	
Speaker		Movie	
		Sports	
		User	

▲▼ ◄► ⊙ MENU

② ③ ④

User

0.1 0.5 1.5 5.0 10 kHz
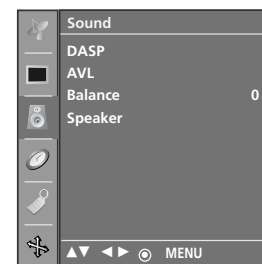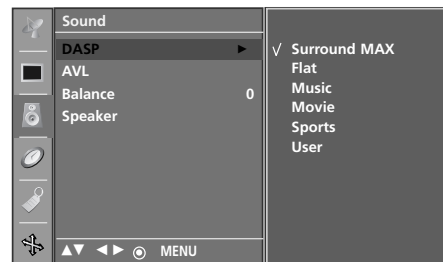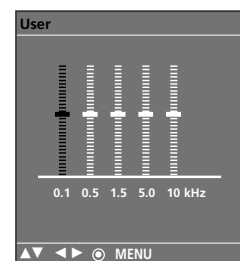
▲▼ ◄► ⊙ MENU

⑤

AVL (AUTO VOLUME LEVELER)

AVL automatically keeps on an equal volume level even if you change programmes.

---

1 Press the **MENU** button and then ▲ / ▼ button to select the **Sound** menu.

2 Press the ▶ button and then ▲ / ▼ button to select **AVL**.

....

3 Press the ▶ button and then ▲ / ▼ button to select **On** or **Off**.

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

Sound	
DASP	
AVL	
Balance	0
Speaker	

▲▼ ◄► ◉ MENU

❶

Sound			
DASP			
AVL	▶	√ On	
Balance	0	Off	
Speaker			

▲▼ ◄► ◉ MENU

❷ ❸
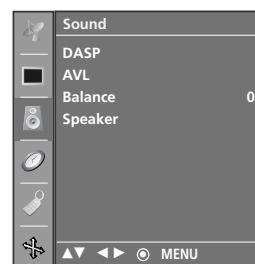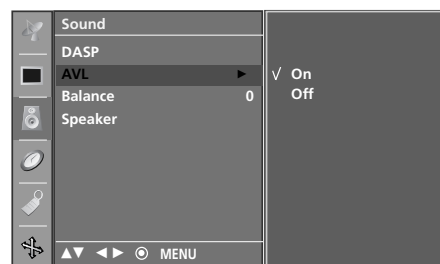
STEREO/SAP BROADCASTS SETUP

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.
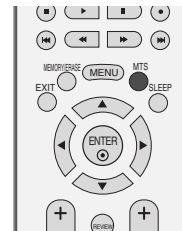
1 Use the **SAP** button to select your desired MTS mode in analog signal. Each time you press the **SAP** button, **Mono**, **Stereo**, or **SAP** appear in turn.

 ■ If other languages available on the digital signal, select them with the **SAP** button.

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

❶ 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.

BALANCE ADJUSTMENT

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

❶ Press the **MENU** button and then ▲ / ▼ button to select the **Sound** menu.

	Sound	
	DASP	
■	AVL	
	Balance	0
🔊	Speaker	

▲▼ ◄ ► ◉ MENU

❶

❷ Press the ► button and then ▲ / ▼ button to select **Balance**.

❸ Press the ► button and then ◄ / ► button to make desired adjustment.

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

	Sound	
	DASP	
■	AVL	
	Balance	R15 ►
	Speaker	

▲▼ ◄ ► ◉ MENU

❷ ❸
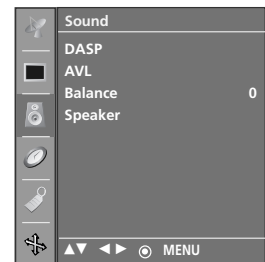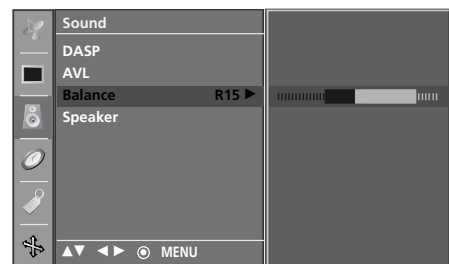
TV SPEAKERS ON/OFF SETUP

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

1 Press the **MENU** button and then ▲ / ▼ button to select the **Sound** menu.

2 Press the ▶ button and then ▲ / ▼ button to select **Speaker**.

3 Press the ▶ button and then ▲ / ▼ button to select **On** or **Off**.

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

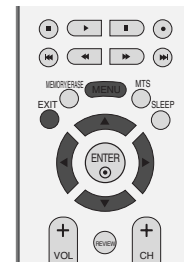| Sound	
DASP	
AVL	
Balance	0
Speaker	

▲▼ ◄ ► ◉ MENU

❶

Sound		∨ On
DASP		Off
AVL		
Balance	0	
Speaker	►	

▲▼ ◄ ► ◉ MENU

❷ ❸
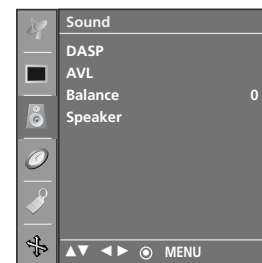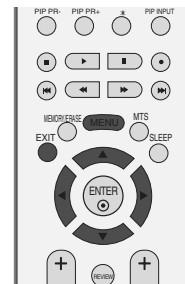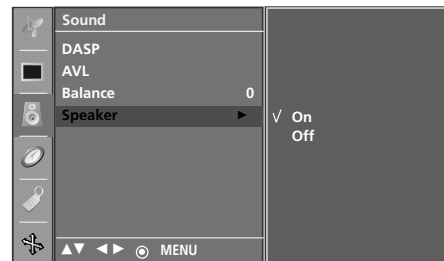
AUTO CLOCK SETUP

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 ▲ **/** ▼ button to select
the **Timer** menu.

2 Press the ► button and then ▲ **/** ▼ 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**,
N.S.T (?? Standard Time), **A.S.T** (Alaska Standard Time),
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, **Off**, **On**, 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.

Timer
Clock
Off timer
On timer
Auto off

▲▼ ◄► ◉ MENU

❶

Timer
Clock ►
Off time
On time
Auto off

√ Auto
Manual
Time zone
　　　　Auto
PBS Channel
　　　　TV　2
Daylight Saving
　　　　Auto

▲▼ ◄► ◉ MENU

❷ ❸ ❹ ❺ ❻
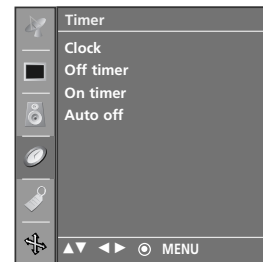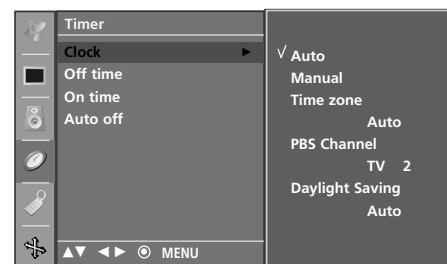
MANUAL CLOCK SETUP

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

1 Press the **MENU** button and then ▲ / ▼ button to select the **Timer** menu.

2 Press the ▶ button and then ▲ / ▼ 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.

Timer

Clock
Off timer
On timer
Auto off

▲▼ ◄ ► ◉ MENU

❶

Timer

Clock ►   Auto
Off time   √ Manual
On time
Auto off

▲▼ ◄ ► ◉ MENU

❷❸❹❺
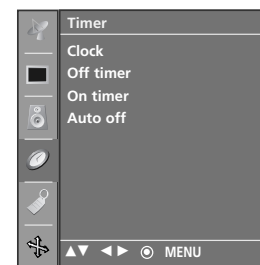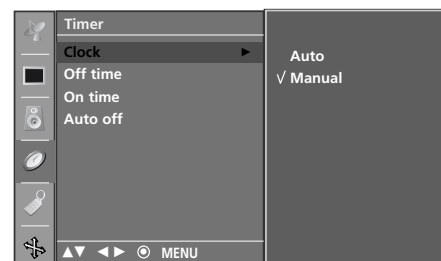
ON/OFF TIMER SETUP

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

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

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

If you do not press any button within 2 hours after the TV turns on with the On Timer function, the TV will automatically revert to standby mode.
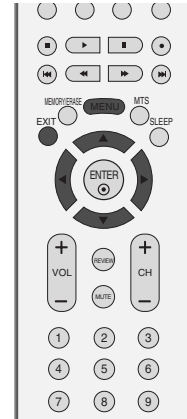
1 Press the **MENU** button and then ▲ / ▼ button to select the **Timer** menu.

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

3 Press the ► button and then use ▲ or ▼ button to select **On**.
- To cancel the **On/Off timer** 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 timer**
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.
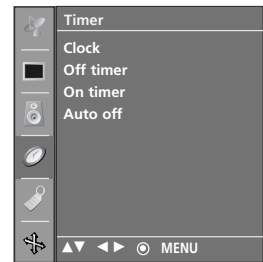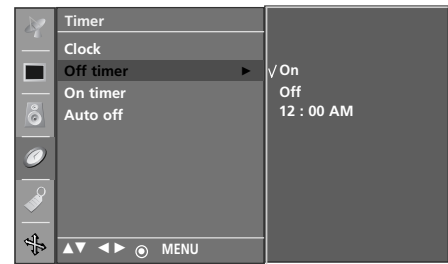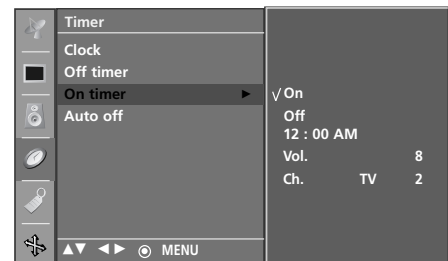
AUTO OFF

If set to on and there is no input signal, the TV turns off automatically after 10 minutes.
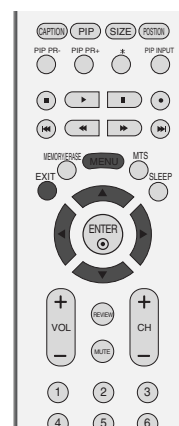
1 Press the **MENU** button and then use ▲ or ▼ button to select the **Timer** menu.

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

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.

Timer
Clock
Off timer
On timer
Auto off

▲▼ ◄► ◉ MENU

1

Timer	
Clock	
Off timer	
On timer	
Auto off ►	√ On
	Off

▲▼ ◄► ◉ MENU

2 3

TV MENU / TIME SETTING

SLEEP TIMER

The Sleep Timer turns the TV off at the preset time.
Note that this setting is cleared when the TV is turned off.
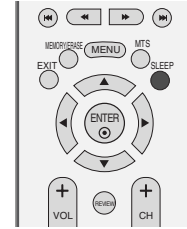
1 Press the **SLEEP** button repeatedly to select the number of minutes. First the **Off** option appears on the screen, followed by the following sleep timer options : 10, 20, 30, 60, 90, 120, 180, and 240 minutes.

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.

3 To check the remaining minutes before the TV turns off, press the **SLEEP** button once.

4 To cancel the Sleep Timer, press the **SLEEP** button repeatedly to select **Off**.

TV MENU | SPECIAL FEATURES

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.
This set 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 **Special** 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.

Special	
Language	
Key lock	
ISM Method	
Low Power	
Set ID	
Caption/Text	
Parental	
XD Demo	
▲▼ ◄► ◉ MENU	

❶

Special	
Language	
Key lock ►	√ On
ISM Method	Off
Low Power	
Set ID	
Caption/Text	
Parental	
XD Demo	
▲▼ ◄► ◉ MENU	

❷ ❸
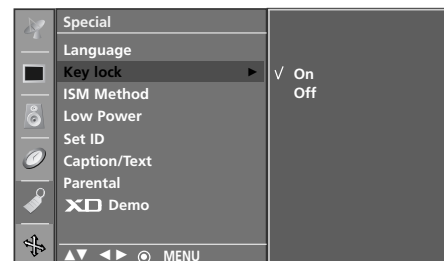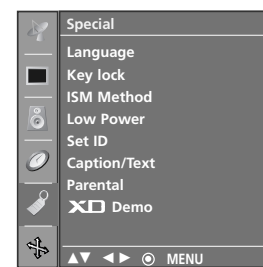
❗ NOTE

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

ISM (IMAGE STICKING MINIMIZATION) METHOD

- for 42PC3RV only

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 **Special** 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 permanent images from the screen.

> **❗ NOTE**
>
> ► An excessive permanent image may be impossible to clear entirely with White Wash. To return to normal viewing, press any button.

■ **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 permanent 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.

❶

| Special	
Language	
Key lock	
ISM Method	
Low Power	
Set ID	
Caption/Text	
Parental	
XD Demo	
▲▼ ◄► ◉ MENU	

Special		
Language		
Key lock		
ISM Method	►	√ Normal
Low Power		White wash
Set ID		Orbiter
Caption/Text		Inversion
Parental		
XD Demo		
▲▼ ◄► ◉ MENU		

❷❸
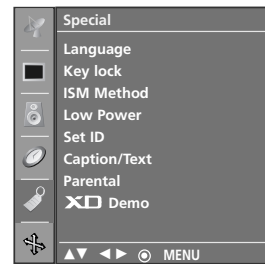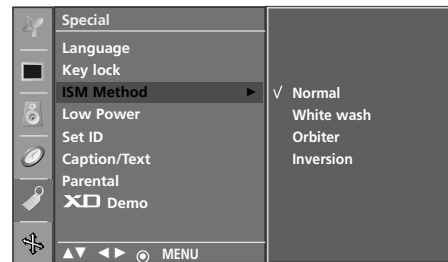
LOW POWER

- for 42PC3RV only

Low power reduces the plasma display power consumption.

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

④ Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.
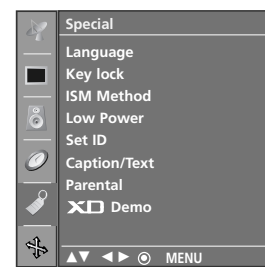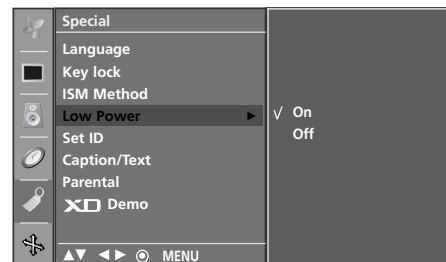
CLOSED CAPTIONS
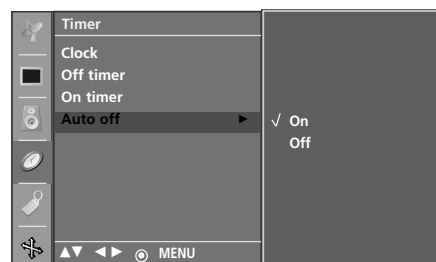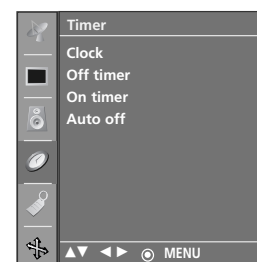
Closed captioning is a process which converts the audio portion of a television program into written words which then appear as subtitles on the television screen. Closed captions allow viewers to read the dialogue and narration of television programs.

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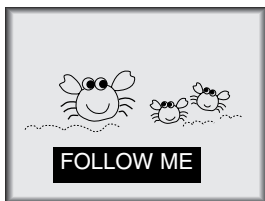
Captioning is an effective system for the hearing-impaired, and it can also aid in teaching language skills.

FOLLOW ME

• The picture at left shows a typical caption.

Caption Tips
• Not all TV broadcasts include closed caption signals.
• Sometimes TV stations broadcast four different caption signals on the same channel. By selecting CC1 to CC4, you can choose which signal you view. CC1 is usually the signal with the captions, while Another mode might show demonstration or programming information.
• Your TV might not receive caption signals normally in the following situations.

1. Poor reception conditions are encountered:

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

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

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

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

1 Use the **CAPTION** button repeatedly to select your caption Mode1, Mode2, Text1, Text2, Off.

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

■ You can also adjust **Caption/Text** in the **Special** menu.

XD DEMO

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

It's not available to use this function in RGB[PC] mode.

1 Press the **MENU** button and then use ▲ or ▼ button to select the **Special** 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.
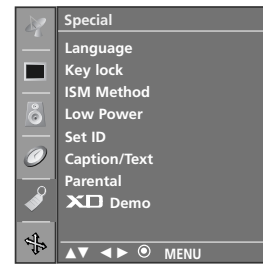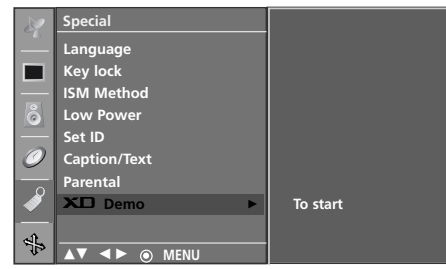
• XD Demo

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)

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 **Special** menu. Then, press the ▶ button.

■ Enter the password as requested.
■ The TV is set up with the initial password "0-0-0-0".

Enter Password

| * | * | * | * |
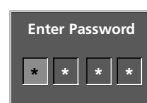
LOCK SYSTEM

1 After inputting the password, use the ▲ or ▼ button to choose **Lock**.

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

■ When you select **On**, the Lock System is enable.

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

Special
Language
Key lock
ISM Method
Low Power
Set ID
Caption/Text
Parental
XD Demo

▲▼ ◄► ◉ MENU

①

Parental
Lock ►
Set password
MPAA
Age block
Content block
Aux. block
Canadian

▲▼ ◄► ◉ MENU

√ On
Off
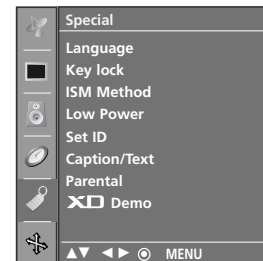
② ③

SET PASSWORD

Change the password by inputting a new password twice.

1 After inputting the password, use the ▲ or ▼ button to choose **Set password**.

2 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.

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

Special
Language
Key lock
ISM Method
Low Power
Set ID
Caption/Text
Parental
XD Demo

▲▼ ◄► ◉ MENU

①

Parental
Lock
Set password ►
MPAA
Age block
Content block
Aux. block
Canadian

▲▼ ◄► ◉ MENU

New   - - - -
Confirm   - - - -

② ③

⚠ **NOTE**

► If you ever forget your password, key in '7', '7', '7', '7' on the remote control.
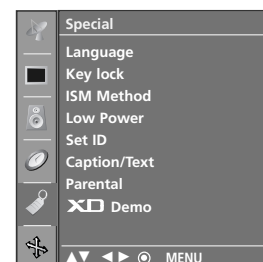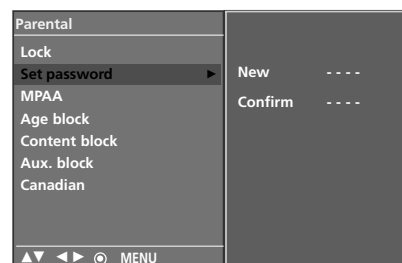
MOVIE RATING (MPAA)

**Blocks movies according to the movie ratings limits speci-
fied, 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 After inputting the password, use the ▲ or ▼ button
to choose **MPAA**.

2 Press the ► button and then use the ▲ or ▼ button
to select type of ratings to block.

    ■ 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.

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

Special

Language
Key lock
ISM Method
Low Power
Set ID
Caption/Text
Parental
XD Demo

▲▼ ◄► ◉ MENU

❶

Parental

Lock
Set password
MPAA ►
Age block
Content block
Aux. block
Canadian

▲▼ ◄► ◉ MENU

√ Unblocked
  G & above
  PG & above
  PG-13 & above
  R & above
  NC-17 & above
  X

❷ ❸
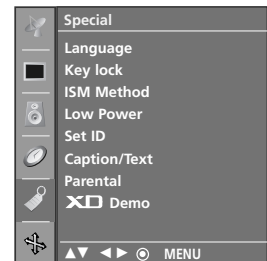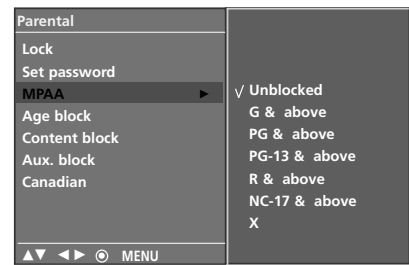
AGE BLOCK

TV Rating General

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

1 After inputting the password, use the ▲ or ▼ button to choose **Age block**.

2 Press the ▶ button and then use the ▲ or ▼ button to choose **General**.
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 (Parents strongly cautioned)
  - TV-MA (Mature audience only)

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

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

1 After inputting the password, use the ▲ or ▼ button to choose **Age block**.

2 Press the ▶ button and then use the ▲ or ▼ button to choose **Children**.
Press the ▶ button and then use the ▲ or ▼ button to select block options.

- Unblocked (Permits all programs)
  - TV-Y (All children)
  - TV-Y7 (Children 7 years older)

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

Special	
Language	
Key lock	
ISM Method	
Low Power	
Set ID	
Caption/Text	
Parental	
XD Demo	

▲▼ ◀ ▶ ◉ MENU

❶

Parental	
Lock	
Set password	
MPAA	
Age block ▶	√ To set
Content block	
Aux. block	
Canadian	

▲▼ ◀ ▶ ◉ MENU

❷ ❸

Parental	
General ▶	√ Unblocked
Children	G & above
	PG & above
	PG-13 & above
	R & above
	NC-17 & above
	X

▲▼ ◀ ▶ ◉ MENU

❷ ❸

TV MENU

65
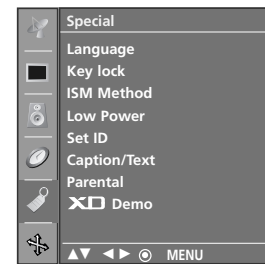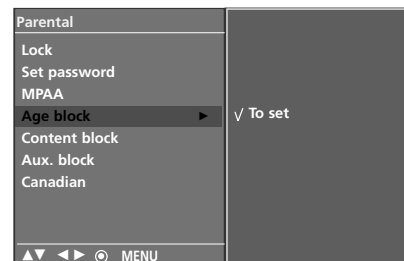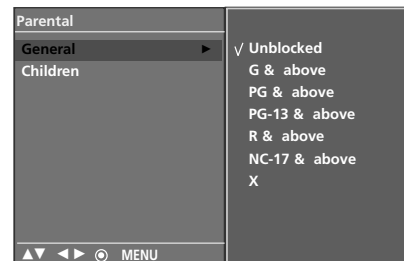
CONTENT BLOCK

Based

1 After inputting the password, use the ▲ or ▼ button to choose **Content block**.

2 Press the ▶ button and then use the ▲ or ▼ button to select **Dialogue**, **Language**, **Sex**, **Violence** or **F.Violence**.
Press the ▶ button and then use the ▲ or ▼ button to select block options.

▪ Dialogue-sexual dialogue (applies to TV-PG & above, TV-14)
▪ 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-PG & above, TV-14 & above, TV-MA)

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

CANADIAN

TV Rating English
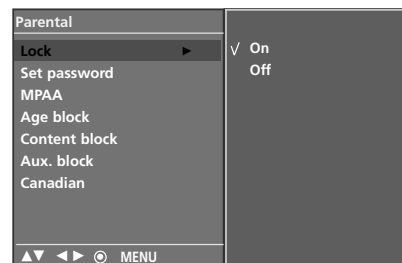
Selecting canadian english language rating system.

1 After inputting the password, use the ▲ or ▼ button to choose **Canadian**.

2 Press the ► button and then use the ▲ or ▼ button to choose **English**.
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)

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

TV Rating French

Selecting canadian french language rating system.

1 After inputting the password, use the ▲ or ▼ button to choose **Canadian**.

2 Press the ► button and then use the ▲ or ▼ button to choose **French**.
Press the ► button and then use the ▲ or ▼ button to select block options.

- ■ Unblocked (Permits all programs)
- ■ 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)

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

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.

Auto configure

This function is for the automatic adjustment of the screen position, clock, and phase. The displayed image will unstable for a few seconds while the auto configuration is in progress.

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

Screen
Auto config.
Manual config.
VGA Mode
ARC
Reset
▲▼ ◄► ◉ MENU

❶

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

3 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.

Screen	
Auto config. ►	To set
Manual config.	
VGA Mode	
ARC	
Reset	
▲▼ ◄► ◉ MENU	

❷ ❸

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

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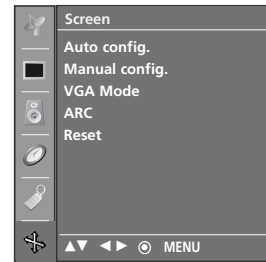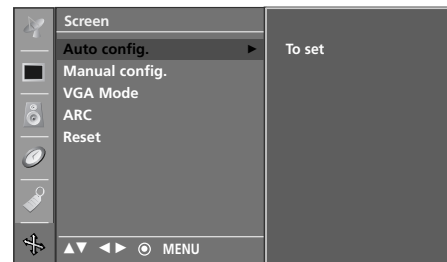
MANUAL CONFIGURE

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

This function works in the following mode : RGB[PC], RGB[DTV], COMPONENT (480p/720p/1080i), HDMI (480p/720p/1080i).

It's not available to use Phase, Clock function in RGB[DTV], COMPONENT (480p/720p/1080i), HDMI (480p/720p/1080i).

❶ Press the **MENU** button and then use ▲ or ▼ button to select the **Screen** menu.

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

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

■ **Phase**

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

■ **Clock**

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

■ **H-position / V-position**

This function is to adjust picture to left/right and up/down as you prefer.

❹ Press the ◄ / ► button to make appropriate adjustments.

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

Screen
| Auto config. |
| Manual config. |
| VGA Mode |
| ARC |
| Reset |

▲▼ ◄► ◉ MENU

❶

Screen
| Auto config. |
Manual config. ►	Phase	50
VGA Mode	Clock	+ 10
ARC	H-Position	0
Reset	V-Position	0

▲▼ ◄► ◉ MENU

❷ ❸ ❹
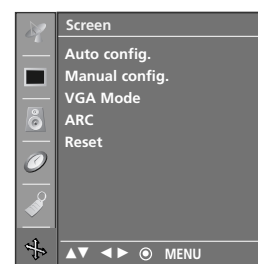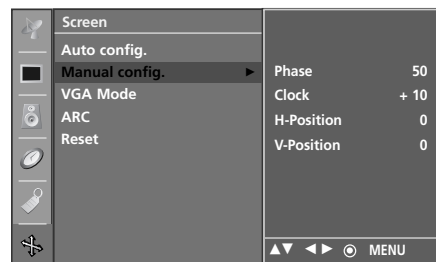
ASPECT RATIO CONTROL (ARC)

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.

■ RGB-PC/DVI-PC input source use 4:3 or 16:9 aspect ratio.
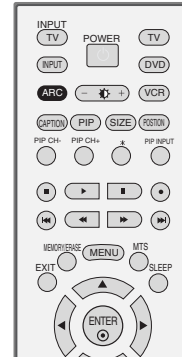
① NOTE

▶ 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 **ARC** button repeatedly to select the desired picture format.

You can also adjust **ARC** in the **Screen** menu.

4:3

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

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.
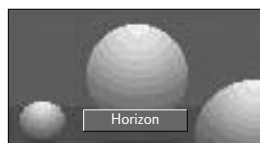
Zoom 1

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.
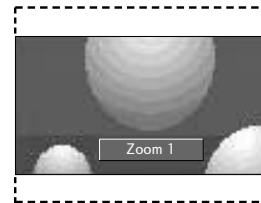
Zoom 2

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.
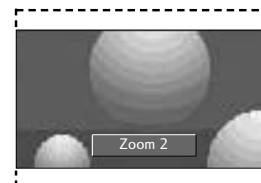
SELECTING WIDE VGA/XGA MODE

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

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

VGA Mode: 42PC1RV
XGA Mode: 26/32LC2R

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

2 Press the ► button and then use ▲ or ▼ button to select **VGA mode** (or **XGA mode**).

3 Press the ► button and then use ▲ or ▼ button to select the desired VGA/XGA resolution.

4 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.
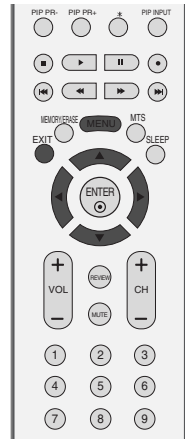
Screen
Auto config.
Manual config.
VGA mode
ARC
Reset
▲▼ ◄► ⊙ MENU

1

Screen	
Auto config.	
Manual config.	
VGA mode ►	√ 640x480
ARC	848x480
Reset	852x480
▲▼ ◄► ⊙ MENU	

2 3

TV MENU / SCREEN ADJUSTMENT
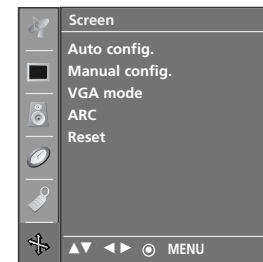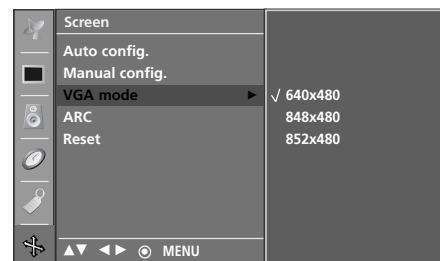
INITIALIZING (RESET TO ORIGINAL FACTORY SETTINGS)

This function operates in current mode.
To initialize the adjusted value.

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

❶

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

③ Press the ▶ button.

• You can initialize Position, PIP size, PIP position. (PIP size and PIP position are available to work in PIP mode only.)

❷ ❸
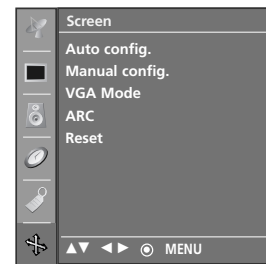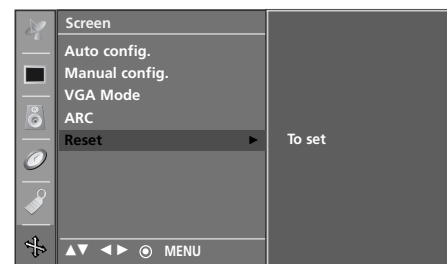
APPENDIX

EXTERNAL CONTROL DEVICE SETUP

Connect the RS-232C (serial port) input jack to an external control device (such as a computer or an A/V control system) to control the product's functions externally.
Connect the serial port of the control device to the RS-232C jack on the product back panel.
Note: RS-232C connection cables are not supplied with the product.

RS-232C Setup
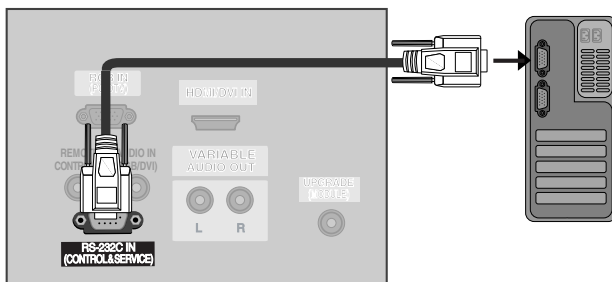
Type of Connector; D-Sub 9-Pin Male

No.	Pin Name
1	No connection
2	RXD (Receive data)
3	TXD (Transmit data)
4	DTR (DTE side ready)
5	GND
6	DSR (DCE side ready)
7	RTS (Ready to send)
8	CTS (Clear to send)
9	No Connection
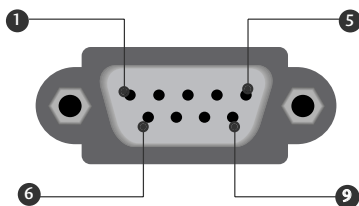
APPENDIX

RS-232C Configurations

7-Wire Configurations (Standard RS-232C cable)			
	PC	TV	
RXD	2 ———— 3		TXD
TXD	3 ———— 2		RXD
GND	5 ———— 5		GND
DTR	4 ———— 6		DSR
DSR	6 ———— 4		DTR
RTS	7 ———— 8		CTS
CTS	8 ———— 7		RTS
	D-Sub 9	D-Sub 9	
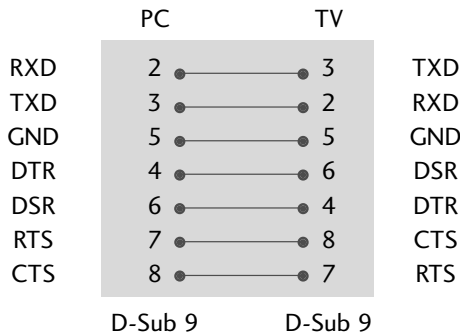
3-Wire Configurations(Not standard)			
	PC	TV	
RXD	2 ———— 3		TXD
TXD	3 ———— 2		RXD
GND	5 ———— 5		GND
DTR	4	6	DTR
DSR	6	4	DSR
RTS	7	7	RTS
CTS	8	8	CTS
	D-Sub 9	D-Sub 9	
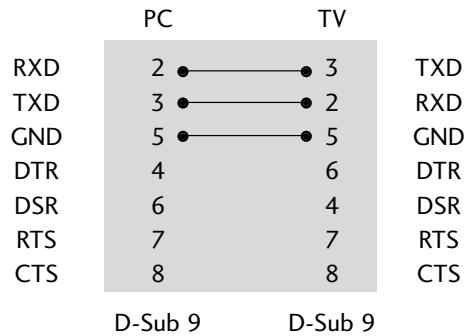
Set ID

Use this function to specify a TV ID number.
Refer to 'Real Data Mapping 1'. ▶ **p.78**.

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

2 Press the ▶ button and then use ▲ or ▼ button to select **Set ID**.

3 Press the ▶ button and then use ◀ / ▶ button to adjust **Set ID** to choose the desired TV ID number. The adjustment range of Set ID is 1~99.

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

Special

Language
Key lock
ISM Method
Low Power
Set ID ▶   1
Caption
XD Demo

▲▼ ◀▶ ⊙ MENU
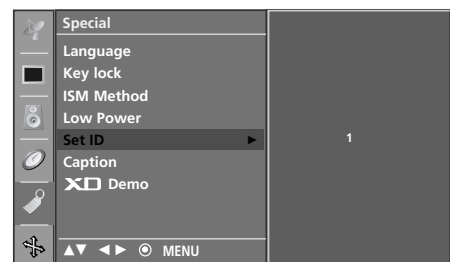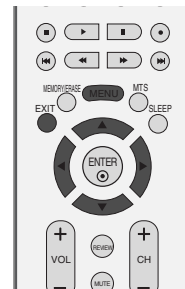
Communication Parameters

- Baud rate : 9600 bps (UART)
- Data length : 8 bits
- Parity : None
- Stop bit : 1 bit
- Communication code : ASCII code
- Use a crossed (reverse) cable.

Command Reference List

	COMMAND1	COMMAND2	DATA (Hexadecimal)		COMMAND1	COMMAND2	DATA (Hexadecimal)
01. Power	k	a	0 ~ 1	16. Color Temperature	k	u	0 ~ 3
02. Aspect Ratio	k	c	*	17. Red Adjustment	k	v	0 ~ 3C (or 50)
03. Screen Mute	k	d	0 ~ 1	18. Green Adjustment	k	w	0 ~ 3C (or 50)
04. Volume Mute	k	e	0 ~ 1	19. Blue Adjustment	k	$	0 ~ 3C (or 50)
05. Volume Control	k	f	0 ~ 64	20. Abnormal Status (option)	k	z	FF
06. Contrast	k	g	0 ~ 64	21. ISM Method (option)	j	p	0 ~ 3
07. Brightness	k	h	0 ~ 64	22. Low Power (option)	j	q	0 ~ 1
08. Color	k	i	0 ~ 64	23. Orbiter Time Setting (option)	j	r	1 ~ FE
09. Tint	k	j	0 ~ 64	24. Orbiter Pixel Setting (option)	j	s	1 ~ 3
10. Sharpness	k	k	0 ~ 64	25. Auto Configure	j	u	1
11. OSD Select	k	l	0 ~ 1	26. Tune Command	m	a	*
12. Remote Control lock mode	k	m	0 ~ 1	27. Key	m	c	Key Code
13. PIP/DW	k	n	0 ~ 2	28. Input select (Main)	x	b	*
14. PIP Position	k	q	0 ~ 3	29. Input select (PIP)	x	y	*
15. Balance	k	t	0 ~ 64	30. Channel Add/Del	m	b	0 ~ 1

Transmission / Receiving Protocol

Transmission

[Command1][Command2][ ][Set ID][ ][Data][Cr]

[Command 1] : First command to control the set.(j,k,mor x)

[Command 2] : Second command to control the set.

[Set ID] : You can adjust the set ID to choose desired TV ID number in Setup menu. Adjustment range is 1~ 99. When selecting Set ID '0', every connected the TV is controlled. Set ID is indicated as decimal (1~ 99) on menu and as Hexa decimal (0x0~ 0x63) on transmission/receiving protocol.

[DATA] : To transmit command data. Transmit 'FF' data to read status of command.

[Cr] : Carriage Return ASCII code '0x0D'

[ ] : ASCII code 'space (0x20)'

OK Acknowledgement

[Command2][ ][Set ID][ ][OK][Data][x]

The TV transmits ACK (acknowledgement) based on this format when receiving normal data. At this time, if the data is data read mode, it indicates present status data. If the data is data write mode, it returns the data of the PC computer.

Error Acknowledgement

[Command2][ ][Set ID][ ][NG][Data][x]

The TV transmits ACK (acknowledgement) based on this format when receiving abnormal data from non-viable functions or communication errors.

Data1: Illegal Code

Data2: Not supported function

Data3: Wait more time

APPENDIX

01. Power (Command2:a)

To control Power On/Off of the TV.

Transmission [k][a][ ][Set ID][ ][Data][Cr]

Data 0 : Power Off   Data 1 : Power On

Acknowledgement [a][ ][Set ID][ ][OK][Data][x]

To show Power On/Off.

Transmission [k][a][ ][Set ID][ ][FF][Cr]

Acknowledgement [a][ ][Set ID][ ][OK][Data][x]

* In a like manner, if other functions transmit 'FF' data based on this format, Acknowledgement data feedback presents status about each function.

* To change the Power on input the transmission more than twice.

02. Aspect Ratio (Command2:c) (Main picture size)

To adjust the screen format. (Main picture format)

You can also adjust the screen format using the ARC (Aspect Ratio Control) button on remote control or in the SCREEN menu.

Transmission [k][c][ ][Set ID][ ][Data][Cr]

Date 1: Normal screen (4:3)
Date 2: Wide screen (16:9)
Date 3: Horizon
Date 4: Full screen (Zoom1)
Date 5: Full screen (Zoom2)

Acknowledgement [c][ ][Set ID][ ][OK][Data][x]

* Using the RGB-PC or Component input, you select either 16:9 or 4:3 screen aspect ratio.

03. Screen Mute (Command2:d)

To select screen mute on/off.

Transmission [k][d][ ][Set ID][ ][Data][Cr]

Data 0 : Screen mute off (Picture on)
Data 1 : Screen mute on (Picture off)

Acknowledgement [d][ ][Set ID][ ][OK][Data][x]

04. Volume Mute (Command2:e)

To control volume mute on/off.

You can also adjust mute using the MUTE button on remote control.

Transmission [k][e][ ][Set ID][ ][Data][Cr]

Data 0 : Volume mute off (Volume on)
Data 1 : Volume mute on (Volume off)

Acknowledgement [e][ ][Set ID][ ][OK][Data][x]

05. Volume Control (Command2:f)

To adjust volume.

You can also adjust volume with the volume buttons on remote control.

Transmission [k][f][ ][Set ID][ ][Data][Cr]

Data Min : 0 ~ Max : 64

Refer to 'Real data mapping 1'. See page 78.

Acknowledgement [f][ ][Set ID][ ][OK][Data][x]

06. Contrast (Command2:g)

To adjust screen contrast.

You can also adjust contrast in the PICTURE menu.

Transmission [k][g][ ][Set ID][ ][Data][Cr]

Data Min : 0 ~ Max : 64

Refer to 'Real data mapping 1'. See page 78.

Acknowledgement [g][ ][Set ID][ ][OK][Data][x]

07. Brightness (Command2:h)

To adjust screen brightness.

You can also adjust brightness in the PICTURE menu.

Transmission [k][h][ ][Set ID][ ][Data][Cr]

Data Min : 0 ~ Max : 64

Refer to 'Real data mapping 1'. See page 78.

Acknowledgement [h][ ][Set ID][ ][OK][Data][x]

08. Color (Command2:i)

To adjust the screen color.

You can also adjust color in the PICTURE menu.

Transmission [k][i][ ][Set ID][ ][Data][Cr]

Data Min : 0 ~ Max : 64

Refer to 'Real data mapping 1'. See page 78.

Acknowledgement [i][ ][Set ID][ ][OK][Data][x]

09. Tint (Command2:j)

To adjust the screen tint.

You can also adjust tint in the PICTURE menu.

Transmission [k][j][ ][Set ID][ ][Data][Cr]

Data Red : 0 ~ Green : 64

Refer to 'Real data mapping 1'. See page 78.

Acknowledgement [j][ ][Set ID][ ][OK][Data][x]

10. Sharpness (Command2:k)

To adjust the screen sharpness.

You can also adjust sharpness in the PICTURE menu.

Transmission [k] [k] [ ] [Set ID] [ ] [Data] [Cr]

Data Min: 0 ~ Max: 64

Refer to 'Real data mapping 1'. See page 78.

Acknowledgement [k] [ ] [Set ID] [ ] [OK] [Data] [x]

11. OSD Select (Command2:l)

To select OSD (On Screen Display) on/off when controlling remotely.

Transmission [k] [l] [ ] [Set ID] [ ] [Data] [Cr]
Data 0: OSD off
Data 1: OSD on

Acknowledgement [l] [ ] [Set ID] [ ] [OK] [Data] [x]

12. Remote Control Lock Mode (Command2:m)

To lock the remote control and the front panel controls on the set.

Transmission [k] [m] [ ] [Set ID] [ ] [Data] [Cr]

Data 0: Lock off   Data 1: Lock on

Acknowledgement [m] [ ] [Set ID] [ ] [OK] [Data] [x]

If you're not using the remote control and front panel controls on the TV, use this mode. When main power is on/off, remote control lock is released.

13. PIP / DW (Command2:n)

To control the PIP (Picture In picture)/DW.

You can also control the PIP/DW using the PIP button on the remote control or in the PIP/DW menu.

Transmission [k] [n] [ ] [Set ID] [ ] [Data] [Cr]

Data 0:PIP/DW off   Data 1: PIP
Data2: DW1 (option)   Data3: DW2
Data5: POP (option)

Acknowledgement [n] [ ] [Set ID] [ ] [OK] [Data] [x]

14. PIP Position (Command2:q)

To select sub picture position for PIP.

You can also adjust the sub picture position using POSITION button on the remote control or in the PIP/DW menu.

Transmission [k] [q] [ ] [Set ID] [ ] [Data] [Cr]
Data 0: Right down on screen
Data 1: Left down on screen
Data 2: Left up on screen
Data 3: Right up on screen

Acknowledgement [q] [ ] [Set ID] [ ] [OK] [Data] [x]

15. Balance (Command2:t)

To adjust balance.
You can also adjust balance in the SOUND menu.

Transmission [k] [t] [ ] [Set ID] [ ] [Data] [Cr]

Data Min: 0 ~ Max: 64

Refer to 'Real data mapping 1'. See page 78.

Acknowledgement [t] [ ] [Set ID] [ ] [OK] [Data] [x]

16. Color Temperature (Command2:u)

To adjust color temperature.
You can also adjust ACC in the PICTURE menu.

Transmission [k] [u] [ ] [Set ID] [ ] [Data] [Cr]

Data 0: Cool   1: Normal   2: Warm   3: User

Acknowledgement [u] [ ] [Set ID] [ ] [OK] [Data] [x]

17. Red Adjustment (Command2:v)

To adjust red in color temperature.

Transmission [k] [v] [ ] [Set ID] [ ] [Data] [Cr]
Data Min: 0 ~ Max: 3C (or 50)

Refer to 'Real data mapping 2'. See page 78.

Acknowledgement [v] [ ] [Set ID] [ ] [OK] [Data] [x]

18. Green Adjustment (Command2:w)

To adjust red in color temperature.

Transmission [k] [w] [ ] [Set ID] [ ] [Data] [Cr]
Data Min: 0 ~ Max: 3C (or 50)

Refer to 'Real data mapping 2'. See page 78.

Acknowledgement [w] [ ] [Set ID] [ ] [OK] [Data] [x]

19. Blue Adjustment (Command2:$)

To adjust red in color temperature.

Transmission [k] [$] [ ] [Set ID] [ ] [Data] [Cr]
Data Min: 0 ~ Max: 3C (or 50)

Refer to 'Real data mapping 2'. See page 78.

Acknowledgement [$] [ ] [Set ID] [ ] [OK] [Data] [x]

APPENDIX

20. Abnormal State (Command2:z)

To recognize an abnormal state. (This feature is not available for all models.)

Transmission [k][z][ ][Set ID][ ][FF][ ][Cr]

Data FF: Read

Acknowledgement [z][ ][Set ID][ ][OK][Data][x]

Data 0: Normal (Power on and signal exist)

Data 1: No signal (Power on)

Data 2: Turn the TV off by remote control

Data 3: Turn the TV off by sleep time function

Data 4: Turn the TV off by RS-232C function

Data 5: 5V down

Data 6: AC down

Data 7: Turn the TV off by Fan Alarm function (option)

Data 8: Turn the TV off by Off time function

Data 9: Turn the TV off by Auto sleep function

* This function is "read only".

21. ISM Method (Command1:j, Command2:p)

To control the ISM method. You can also adjust ISM Method in SPECIAL menu. (This feature is not available for all models.)

Transmission [j][p][ ][Set ID][ ][Data][Cr]

Data 0: Normal Mode   Data 1: White Wash

Data2: Orbiter   Data3: Inversion

Acknowledgement [p][ ][Set ID][ ][OK][Data][x]

22. Low Power (Command1:j, Command2:q)

To reduce the power consumption of the monitor. You can also adjust Low Power in SPECIAL menu. (This feature is not available for all models.)

Transmission [j][q][ ][Set ID][ ][Data][ ][Cr]

Data 0: Off   Data 1: On

Acknowledgement [q][ ][Set ID][ ][OK][Data][x]

23. Orbiter Time Setting (Command1:j, Command2:r)

To adjust orbiter operation time term. (This feature is not available for all models.)

Transmission [j][r][ ][Set ID][ ][Data][ ][Cr]

Data Min: 1 ~ Max: FE

Refer to 'Real data mapping 1'.

Acknowledgement [r][ ][Set ID][ ][OK][Data][x]

24 . Orbiter Pixel Setting (Command1:j, Command2:s)

To adjust pixel number in orbiter function.

(This feature is not available for all models.)

Transmission [j][s][ ][Set ID][ ][Data][Cr]

Data Min: 1 ~ Max: 3

Refer to 'Real data mapping 1'.

Acknowledgement [s][ ][Set ID][ ][OK][Data][x]

25 . Auto Configure (Command1:j, Command2:u)

To adjust picture position and minimize image shaking automatically. It works only in RGB (PC) mode.

Transmission [j][u][ ][Set ID][ ][Data][Cr]

Data 1: To set

Acknowledgement [u][ ][Set ID][ ][OK][Data][x]

26 . Tune Command (Command1:m, Command2:a)

Tune channel to following physical number.

Transmission [m][a][ ][Set ID][ ][Data0][ ][Data1][ ][Data2][ ][Data3][ ][Data4][ ][Data5][ ][Cr]

Data 0: Air: 02 ~ 45, CATV: 01, 0E ~ 87

Refer to 'Real data mapping 1'.
Data 1: Don't care
Data 2: Don't care
Data 3: Don't care
Data 4: Don't care
Data 5: 0 : Main[Air]   80 : Sub[Air] (option)
         1 : Main[Cable]   81 : Sub [Cable]

Acknowledgement [a][ ][Set ID][ ][OK][Data0][x]

Data Min: 0 ~ Max: 87

* Real data mapping 1
0 : Step 0
⋮
A : Step 10 (Set ID 10)
⋮
F : Step 15 (Set ID 15)
10 : Step 16 (Set ID 16)
⋮
64 : Step 100
⋮
6E : Step 110
⋮
73 : Step 115
74 : Step 116
⋮
C7 : Step 199
FE : Step 254
FF : Step 255

* Real data mapping 2
0 : -30
1 : -29
2 : -28
⋮
1E : 0
⋮
3A : +28
3B : +29
3C : +30

27. Key (Command1:m, Command2:c)

To send IR remote key code.

Transmission [m][c][ ][Set ID][ ][Data][Cr]

Data: Key code - Refer to page 81.

Acknowledgement [c][ ][Set ID][ ][OK][Data][x]

28. Input select (Command1:x, Command2:b) (Main Picture Input)

To select input source for TV.

Transmission [x][b][ ][Set ID][ ][Data][Cr]

Data: Structure

MSB   LSB

0	0	0	0	0	0	0	0

└─ External Input ─┘   └─ Input Number ─┘
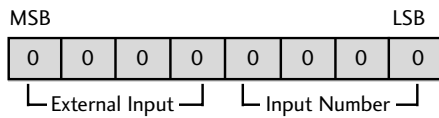
External Input				Data
0	0	0	1	Analog
0	0	1	0	Video
0	1	0	0	Component
0	1	0	1	RGB-DTV
0	1	1	0	RGB-PC
1	0	0	1	HDMI (option)

Input Number				Data
0	0	0	0	Input1
0	0	0	1	Input2

Acknowledgement [b][ ][Set ID][ ][OK][Data][x]

29. Input select (Command1:x, Command2:y)

To adjust input source for sub picture in PIP mode.

Transmission [x][y][ ][Set ID][ ][Data][Cr]

Data: Structure

MSB   LSB

0	0	0	0	0	0	0	0

└─ External Input ─┘   └─ Input Number ─┘
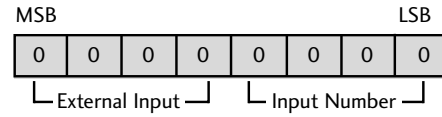
External Input				Data
0	0	0	1	Analog
0	0	1	0	Video

Input Number				Data
0	0	0	0	Input1
0	0	0	1	Input2

Acknowledgement [y][ ][Set ID][ ][OK][Data][x]

30. Channel Add/Del (Command1:m, Command2:b)

To add and delete the programme.

Transmission [m][b][ ][Set ID][ ][Data][Cr]

Data 0: Delete
Data 1: Add

Acknowledgement [b][ ][Set ID][ ][OK][Data][x]

APPENDIX
IR CODES

1. How to Connect

■ Connect your wired remote control to the Remote Control port on the TV.

2. Remote Control IR Codes

■ **Output waveform**

Single pulse, modulated with 37.917KHz signal at 455KHz

Carrier frequency

$FCAR = 1/TC = fOSC/12$

$Duty\ ratio = T1/TC = 1/3$
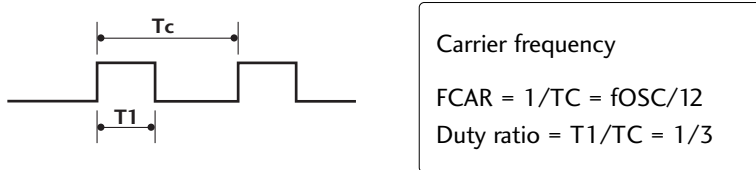
■ **Configuration of frame**

1st frame

Lead code	Low custom code	High custom code	Data code	Data code
		C0 C1 C2 C3 C4 C5 C6 C7	D0 D1 D2 D3 D4 D5 D6 D7	D̄0 D̄1 D̄2 D̄3 D̄4 D̄5 D̄6 D̄7

Repeat frame

Repeat code

Tf

■ **Lead code**

9 ms

4.5 ms

■ **Repeat code**

9 ms

2.25 ms

0.55 ms
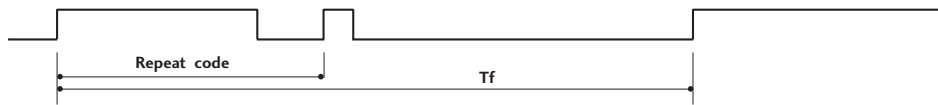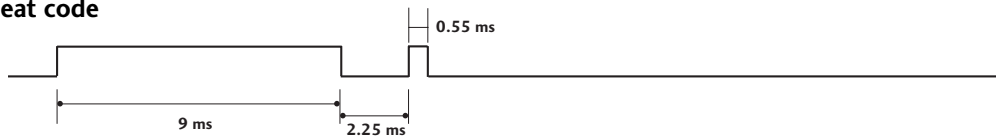
■ **Bit description**

Bit "0"

0.56 ms

1.12 ms

Bit "1"

0.56 ms

2.24 ms
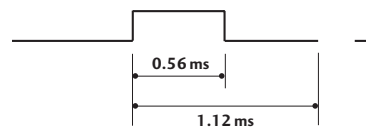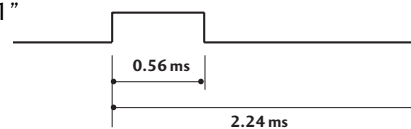
■ **Frame interval: Tf**

The waveform is transmitted as long as a key is depressed.

Tf

Tf

Tf=108ms @455KHz
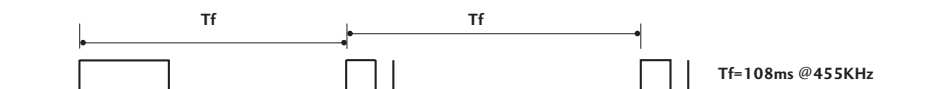
REMOTE CONTROL IR CODES

Code (Hexa)	Function	Note	Code (Hexa)	Function	Note
0F	TV	R/C Button	44	ENTER	R/C Button
0B	INPUT	R/C Button	72	PIP CH-	R/C Button
08	POWER	R/C Button (Power On/Off)	71	PIP CH+	R/C Button
C4	POWER ON	Discrete IR Code (Only Power On)	61	PIP INPUT	R/C Button
C5	POWER OFF	Discrete IR Code (Only Power OFF)	02	VOL +	R/C Button
60	PIP	R/C Button	03	VOL -	R/C Button
0E	SLEEP	R/C Button	00	CH +	R/C Button
38	Caption/Text	R/C Button	01	CH -	R/C Button
0A	MTS	R/C Button	09	MUTE	R/C Button
43	MENU	R/C Button	55	Memory/Erase	R/C Button
79	ARC	R/C Button	10 ~ 19	Number Key 0 ~ 9	R/C Button
5B	EXIT	R/C Button	1E	FCR	R/C Button
07	◄	R/C Button	1A	REVIEW	R/C Button
06	►	R/C Button	64	SIZE	R/C Button
40	▲	R/C Button	62	PIP: POSITION,	R/C Button
41	▼	R/C Button	E0	☼+	R/C Button
			E1	☼-	R/C Button

APPENDIX

PROGRAMMING THE REMOTE

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

Programming a code into a remote mode

① Test your remote control.
To find out whether your remote control can operate the component without programming, turn on the component such as a VCR and press the corresponding mode button (such as a **DVD** or **VCR**) on the remote control, while pointing at the component. Test the **POWER** and **CH** +/- buttons to see if the component responds properly. If not, the remote requires programming to operate the device.

② Turn on the component to be programmed, then press the corresponding mode button (such as a **DVD** or **VCR**) on the remote control. The remote control button of desired device is lighted.

③ Press the **MENU** and **MUTE** buttons simultaneously, the remote control is ready to be programmed for the code.

④ Enter a code number using the number buttons on the remote control. Programming code numbers for the corresponding component can be found on the following pages. Again, if the code is correct, the device will turn off.

⑤ Press the **MENU** button to store the code.

⑥ Test the remote control functions to see if the component responds properly. If not, repeat from step 2.

PROGRAMMING CODE

DVD

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

VCRs

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

APPENDIX

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. ▪ Are batteries installed with correct polarity (+ to +, - to -)? ▪ Correct remote operating mode 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 slow-ly 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 back- ground & Horizontal Noise & Incorrect position	▪ Work the Auto configure or adjust clock, phase, or H/V position.
Screen color is unstable or single color	▪ Check the signal cable. ▪ Reinstall the PC video card.

APPENDIX

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APPENDIX

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

MODELS		26LC2R (26LC2R-UJ)	32LC2R (32LC2R-UJ)
Dimensions (Width x Height x Depth)	including stand	26.8 x 21.3 x 6.8 inches 681.0 x 542.0 x 172.0 mm	31.9 x 24.8 x 9.3 inches 811.0 x 630.0 x 235.0 mm
	excluding stand	26.8 x 19.3 x 4.6 inches 681.0 x 490.8 x 119.0 mm	31.9 x 22.3 x 4.9 inches 811.0 x 566.8 x 123.5 mm
Weight	including stand excluding stand	40.8 pounds / 18.5 kg 33.5 pounds / 15.2 kg	48.2 pounds / 21.9 kg 40.8 pounds / 18.5 kg
Power requirement Television System Program Coverage External Antenna Impedance		AC100-240V -50/60Hz, 1.3A	AC100-240V -50/60Hz, 1.5A
		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%	

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

PRODUCT SPECIFICATIONS

MODELS		42PC3RV (42PC3RV-UJ)
Dimensions (Width x Height x Depth)	including stand	44.4 x 29.5 x 15.0 inches 1129.0 x 748.5 x 380.0 mm
	excluding stand	44.4 x 27.4 x 4.1 inches 1129.0 x 695.0 x 103.7 mm
Weight	including stand excluding stand	64.4 pounds / 29.2 kg 55.8 pounds / 25.3 kg
Power requirement Television System Program Coverage External Antenna Impedance		AC100-240V -50/60Hz, 3A 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%

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