



PLASMA TV OWNER'S MANUAL

32PC5***
42PG1***
50PG1***
42PG2***
50PG2***

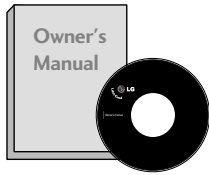
Please read this manual carefully before operating your set.
Retain it for future reference.
Record model number and serial number of the set.
Refer to the label on the back cover and quote this information.
To your dealer when requiring service.



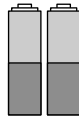
This feature is not available for all models.
This product qualifies for ENERGY STAR in the "factory default (Home mode)" setting and this is the setting in which power savings will be achieved.
(Except for 32PC5***)

ACCESSORIES

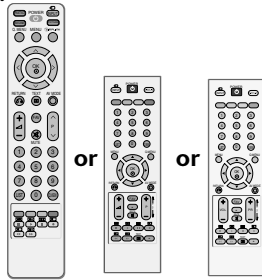
Ensure that the following accessories are included with your TV. If an accessory is missing, please contact the dealer where you purchased the product.



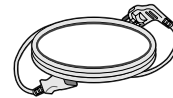
Owner's Manual



Batteries



Remote Control

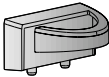


Power Cord

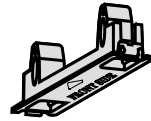
Cable Management Clip



(only 42/50PG1***)



(only 42/50PG2***)



protection cover



Cable Holder
(42PG1***, 42PG2***:1EA,
50PG1***, 50PG2***: 2EA)



Bolts for stand assembly
(Refer to P.9)

(42PG1***, 42PG2***:4EA)

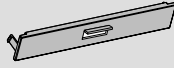
Only 32PC5***



4-bolts for stand assembly
Refer to p. 9



Holder
(Refer to p.12)

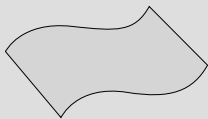


Cover
(Refer to p.12)

Ferrite Core



This feature is not available for all models.



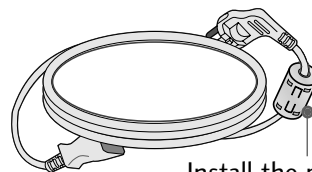
Polishing Cloth
Polishing cloth for use on the screen
This feature is not available for all models.

*Lightly wipe any stains or fingerprints on the surface of the TV with the polishing cloth.

Do not use excessive force. This may cause scratching or discolouration.

Use of ferrite core (This feature is not available for all models.)

Ferrite core can be used to reduce the electromagnetic wave when connecting the power cord. The closer the location of the ferrite core to the power plug, the better it is.



Install the power plug closely.

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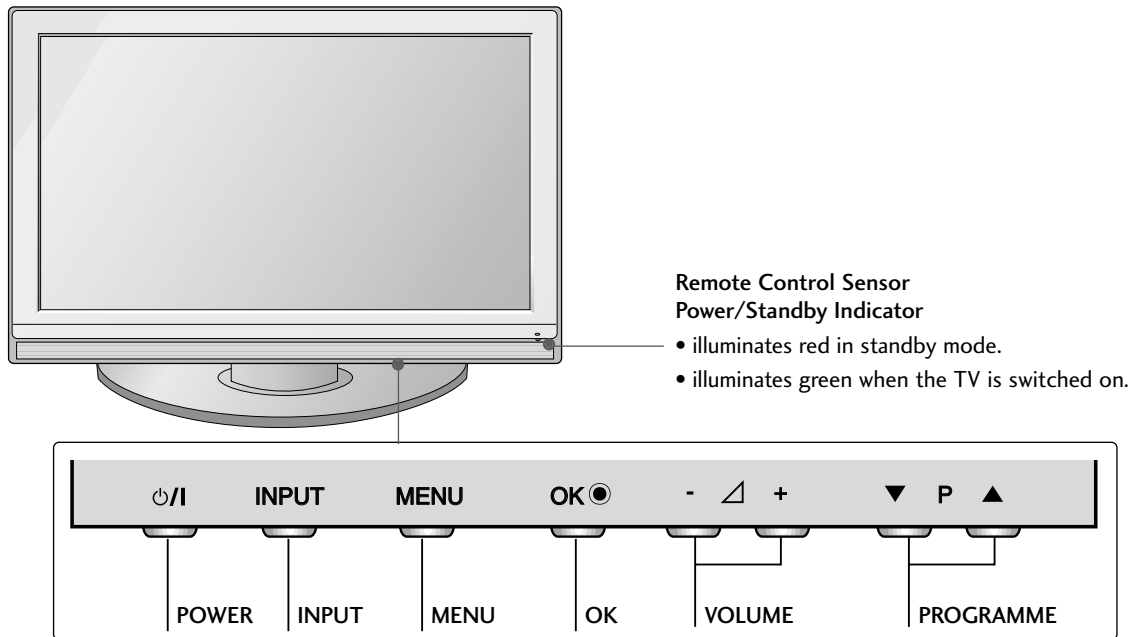
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PREPARATION

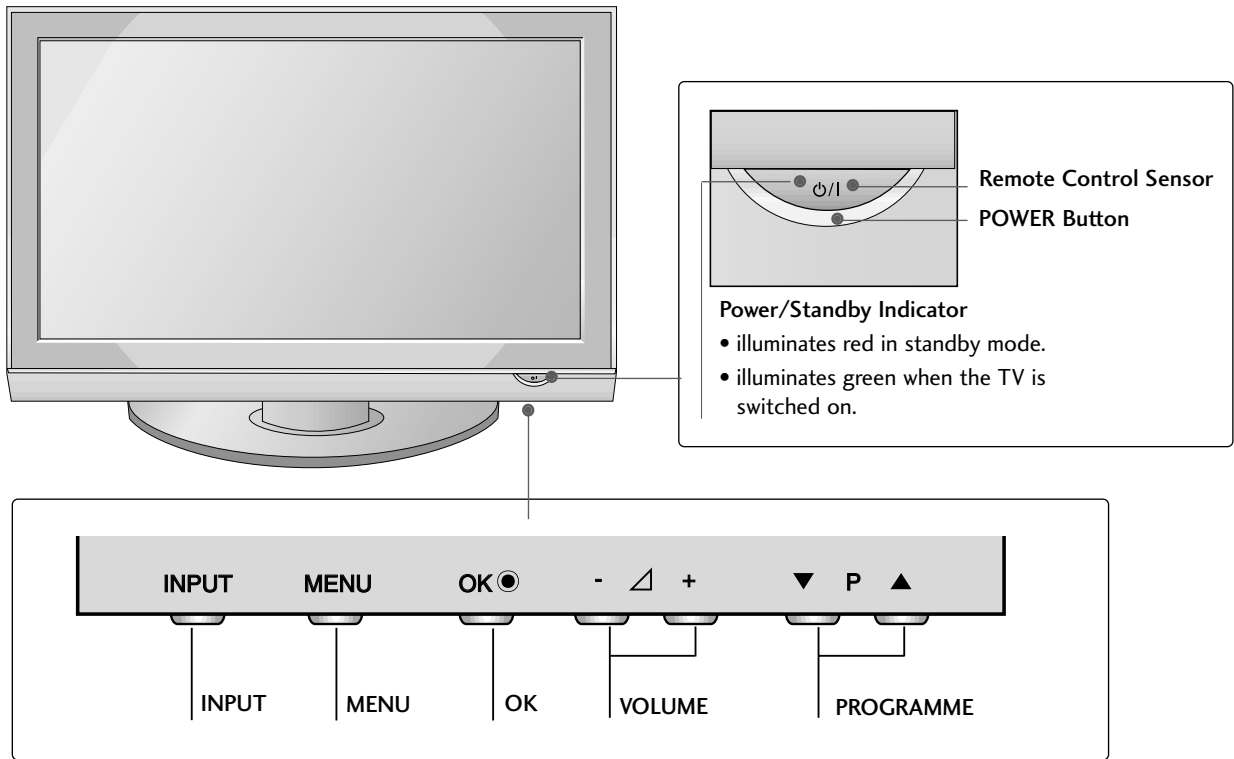
FRONT PANEL CONTROLS

- This is a simplified representation of the front panel. Image shown may differ from your TV.
- If your product has a protection film attached, remove the film and then wipe the product with a polishing cloth.

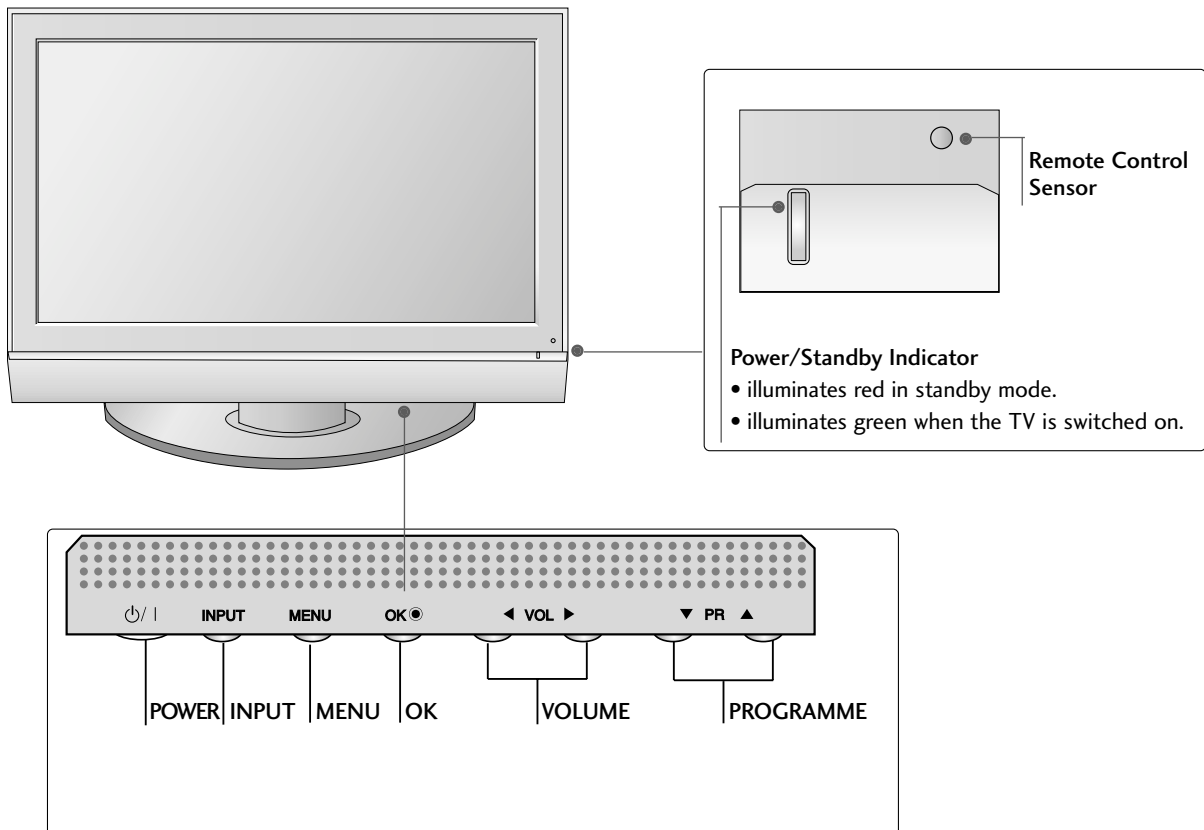
42/50PG1***



42/50PG2***



32PC5***

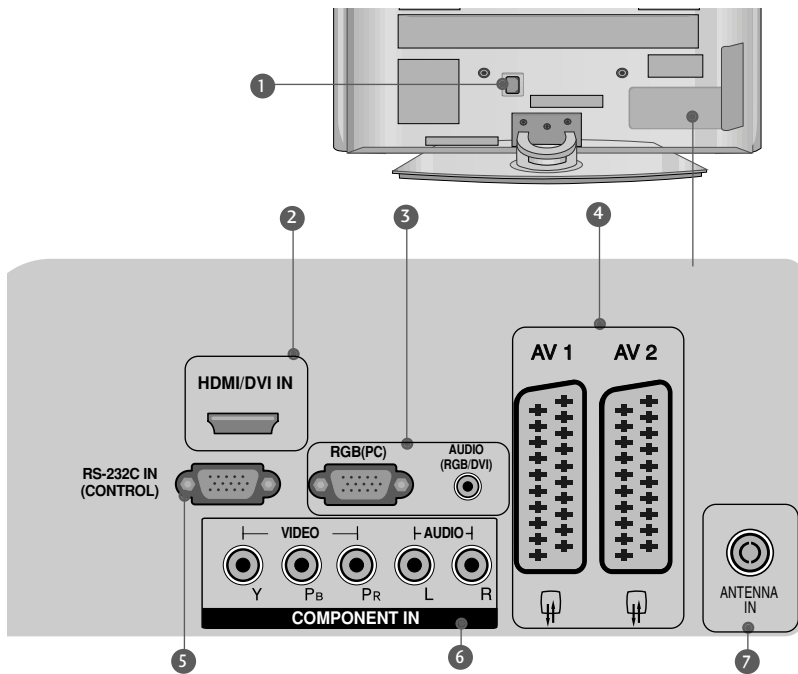


PREPARATION

BACK PANEL INFORMATION

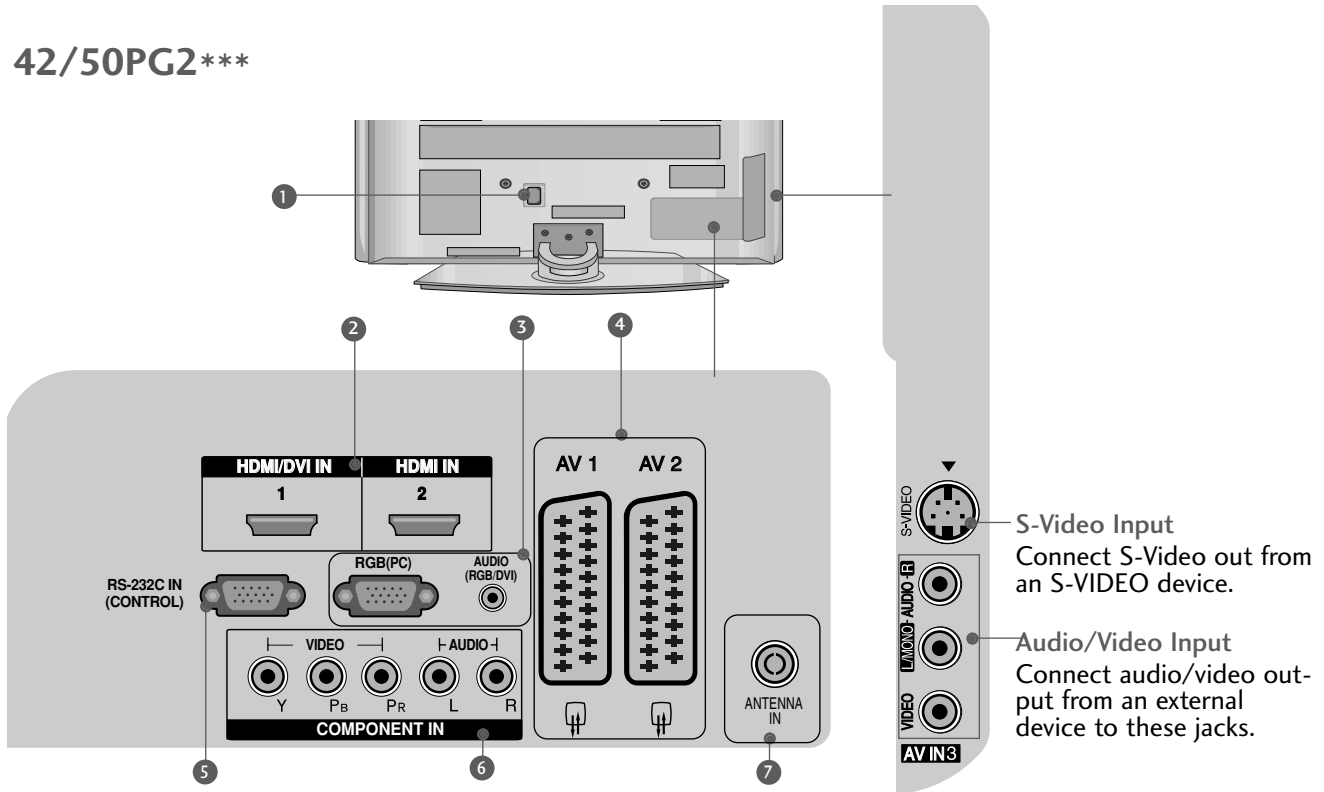
- Image shown may differ from your TV.

42/50PG1 ***



- 1 Power Cord Socket**
This TV operates on an AC power. The voltage is indicated on the Specifications page. Never attempt to operate the TV on DC power.
- 2 HDMI Input**
Connect a HDMI signal to HDMI IN
Or DVI(VIDEO)signal to HDMI/DVI port with DVI to HDMI cable.
- 3 RGB/Audio Input**
Connect the monitor output from a PC to the appropriate input port.
- 4 Euro Scart Socket (AV1/AV2)**
Connect scart socket input or output from an external device to these jacks.
- 5 RS-232C Input (CONTROL) Port**
Connect the serial port of the control devices to the RS-232C jack.
- 6 Component Input**
Connect a component video/audio device to this jack.
- 7 Antenna Input**
Connect RF antenna to this jack.

42/50PG2***



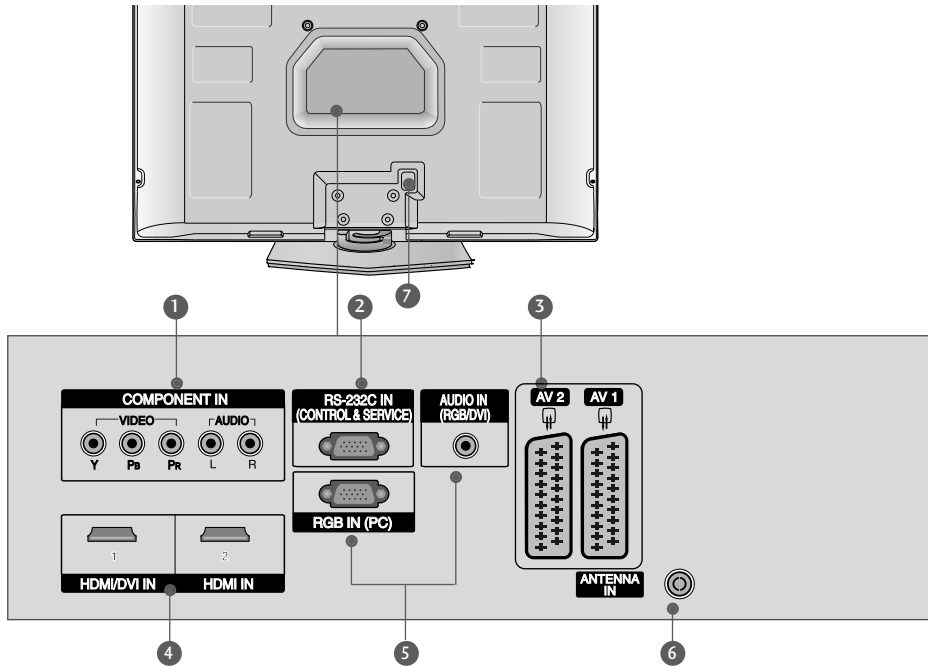
- 1 Power Cord Socket**
This TV operates on an AC power. The voltage is indicated on the Specifications page. Never attempt to operate the TV on DC power.
- 2 HDMI Input**
Connect a HDMI signal to HDMI IN
Or DVI(VIDEO)signal to HDMI/DVI port with DVI to HDMI cable.
- 3 RGB/Audio Input**
Connect the monitor output from a PC to the appropriate input port.
- 4 Euro Scart Socket (AV1/AV2)**
Connect scart socket input or output from an external device to these jacks.
- 5 RS-232C Input (CONTROL) Port**
Connect the serial port of the control devices to the RS-232C jack.
- 6 Component Input**
Connect a component video/audio device to this jack.
- 7 Antenna Input**
Connect RF antenna to this jack.

PREPARATION

BACK PANEL INFORMATION

- Image shown may differ from your TV.

Only 32PC5***



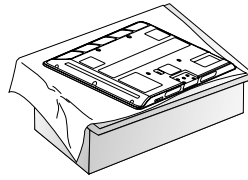
- 1 Component Input**
Connect a component video/audio device to this jack.
- 2 RS-232C Input (CONTROL&SERVICE) Port**
Connect the serial port of the control devices to the RS-232C jack.
- 3 Euro Scart Socket (AV1/AV2)**
Connect scart socket input or output from an external device to these jacks.
- 4 HDMI Input**
Connect a HDMI signal to HDMI IN
Or DVI(VIDEO)signal to HDMI/DVI port with DVI to HDMI cable.
- 5 RGB/Audio Input**
Connect the monitor output from a PC to the appropriate input port.
- 6 Antenna Input**
Connect RF antenna (UHF) to this jack.
- 7 Power Cord Socket**
This TV operates on an AC power. The voltage is indicated on the Specifications page. Never attempt to operate the TV on DC power.

STAND INSTALLATION

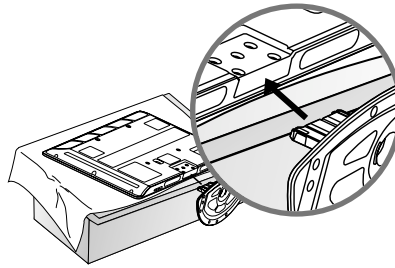
(Only 42PG1***, 42PG2***, 32PC5***)

- Image shown may differ from your TV
- When assembling the desk type stand, check whether the bolt is fully tightened. (If not tightened fully, the product can tilt forward after the product installation.) If you tighten the bolt with excessive force, the bolt can deviate from abrasion of the tightening part of the bolt.

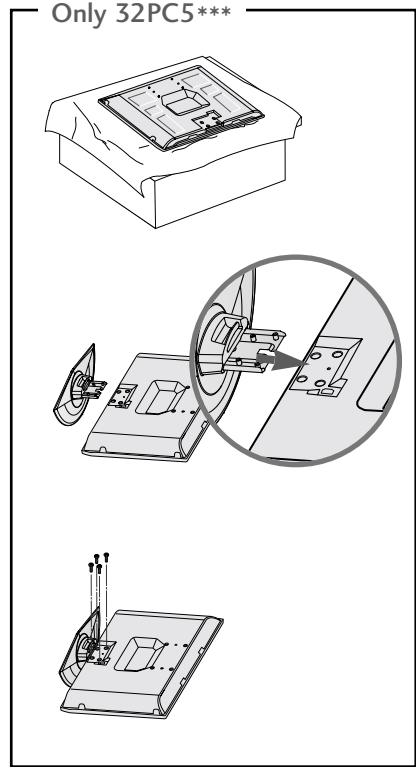
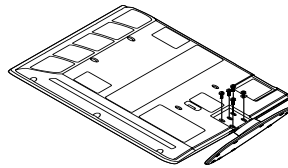
1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



2 Assemble the TV as shown.



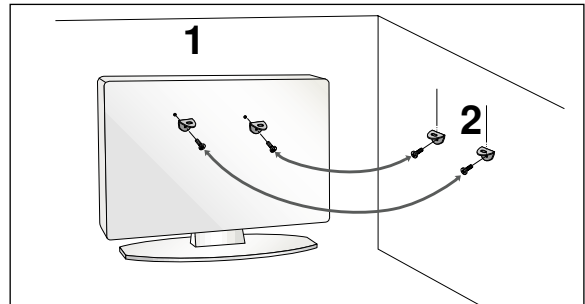
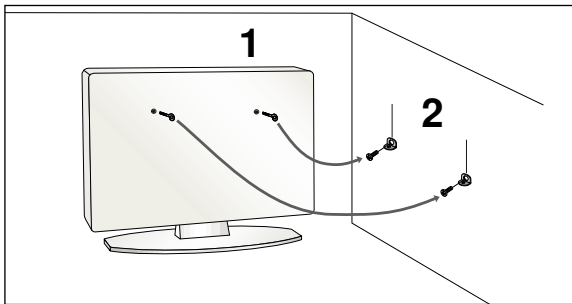
3 Fix the 4 bolts securely using the holes in the back of the TV.



PREPARATION

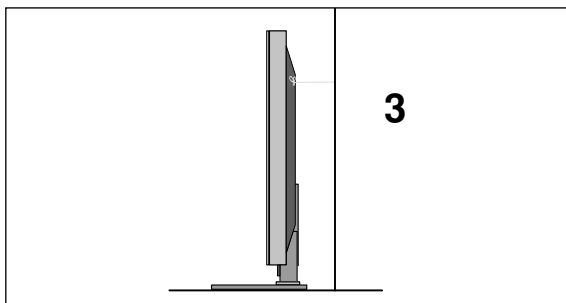
PLEASE SET IT UP CAREFULLY SO THE PRODUCT DOES NOT FALL OVER.

- You should purchase necessary components to fix the TV to the wall on the market.
- Position the TV close to the wall to avoid the possibility of it falling when pushed.
- The instructions shown below are a safer way to set up the TV, which is to fix it to the wall, avoiding the possibility of it falling forwards if pulled. This will prevent the TV from falling forward and causing injury. This will also prevent the TV from damage. Ensure that children do not climb or hang from the TV.



- 1 Use the eye-bolts or TV brackets/bolts to fix the product to the wall as shown in the picture.
(If your TV has bolts in the eyebolts, loosen then bolts.)
* Insert the eye-bolts or TV brackets/bolts and tighten them securely in the upper holes.

- 2 Secure the wall brackets with bolts to the wall.
Ensure that both brackets are even.



- 3 Use a strong cord to secure the TV.
Secure the cord in such a way that it becomes taught when the TV is in position.

! NOTE

- ▶ When moving the TV undo the cords first.
- ▶ Use a platform or cabinet strong and large enough to support the size and weight of the TV.
- ▶ To use the TV safely make sure that the height of the bracket on the wall and on the TV is the same.

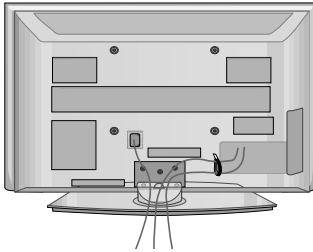
BACK COVER FOR WIRE ARRANGEMENT

▪ Here shown may be somewhat different from your TV.

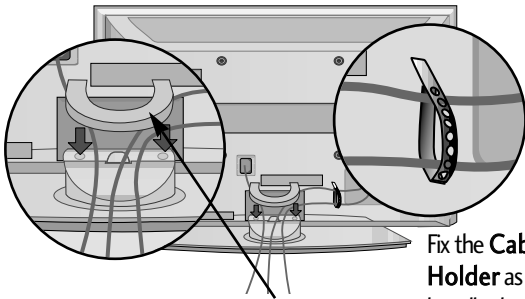
42/50PG1***

1 Connect the cables as necessary.

To connect additional equipment, see the **External Equipment Setup** section.



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



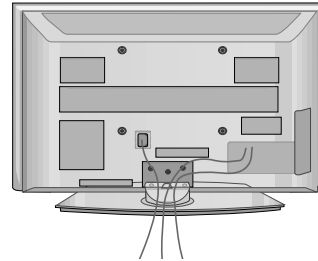
CABLE MANAGEMENT CLIP

Fix the **Cable Holder** as shown and bundle the cables.

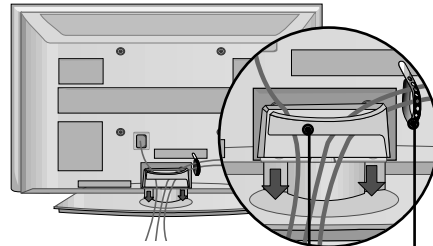
42/50PG2***

1 Connect the cables as necessary.

To connect additional equipment, see the **External Equipment Setup** section.



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

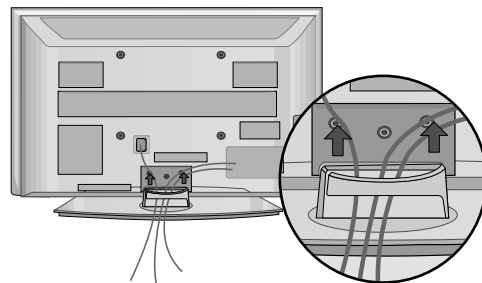
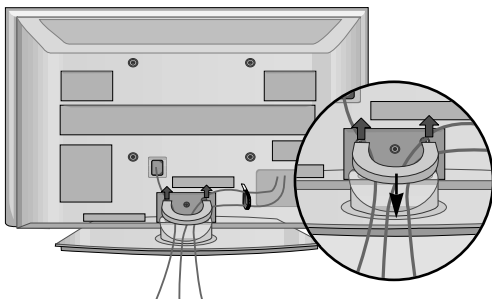


CABLE MANAGEMENT CLIP

Fix the **Cable Holder** as shown and bundle the cables.

How to remove the cable management clip

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



* For the 42PG1*** model, press the center of the CABLE MANAGEMENT CLIP and then lift up it.

NOTE

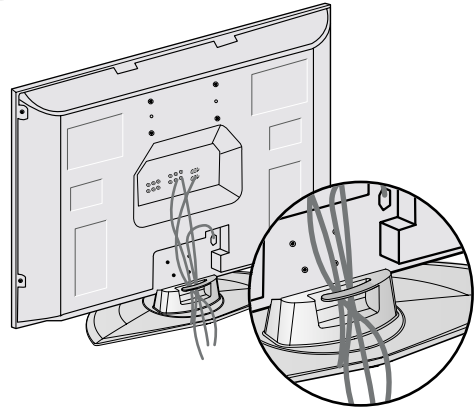
- ▶ Do not use the **CABLE MANAGEMENT CLIP** to lift the TV.
- If the TV is dropped, you may be injured or the TV may be damaged.

PREPARATION

BACK COVER FOR WIRE ARRANGEMENT

Only 32PC5***

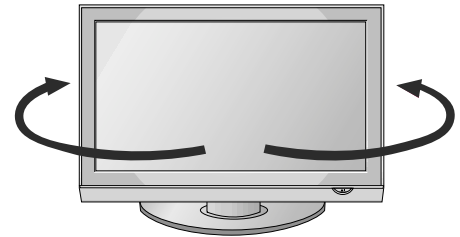
Arrange the cables as shown picture.



Swivel Stand

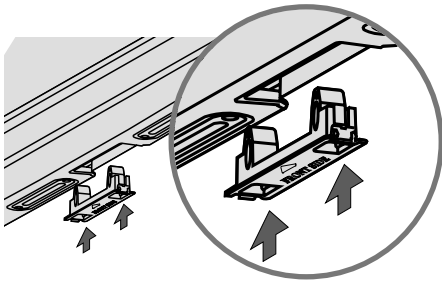
(Only 42/50PG2***)

After installing the TV, you can adjust the TV manually to the left or right direction by 20 degrees to suit your viewing position.

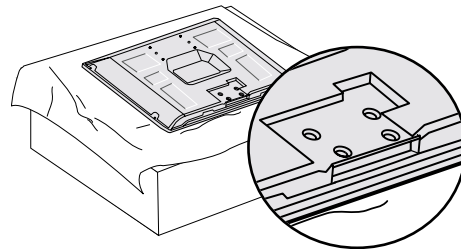


NOT USING THE DESK-TYPE STAND

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



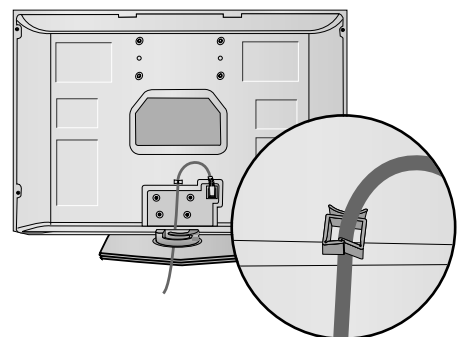
or



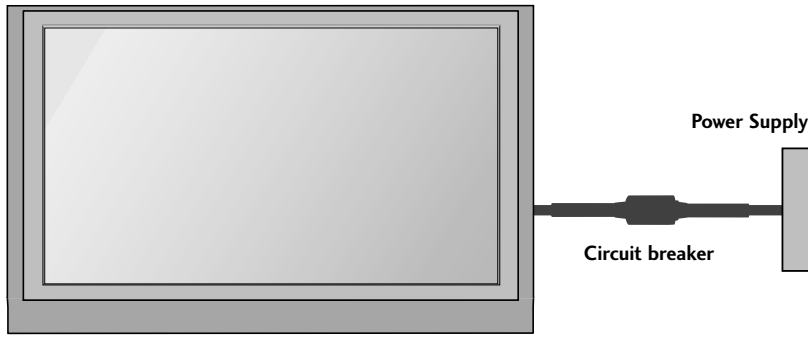
Insert the PROTECTION COVER into the TV until clicking sound.

POWER CORD ARRANGEMENT (Only 32PC5***)

After connecting the power cord to the AC input terminal, fix the power cord at the rear side Hole of the TV by using the bracket for fixing the power cord.



- The TV can be installed in various ways such as on a wall, or on a desktop etc.
- The TV is designed to be mounted horizontally.



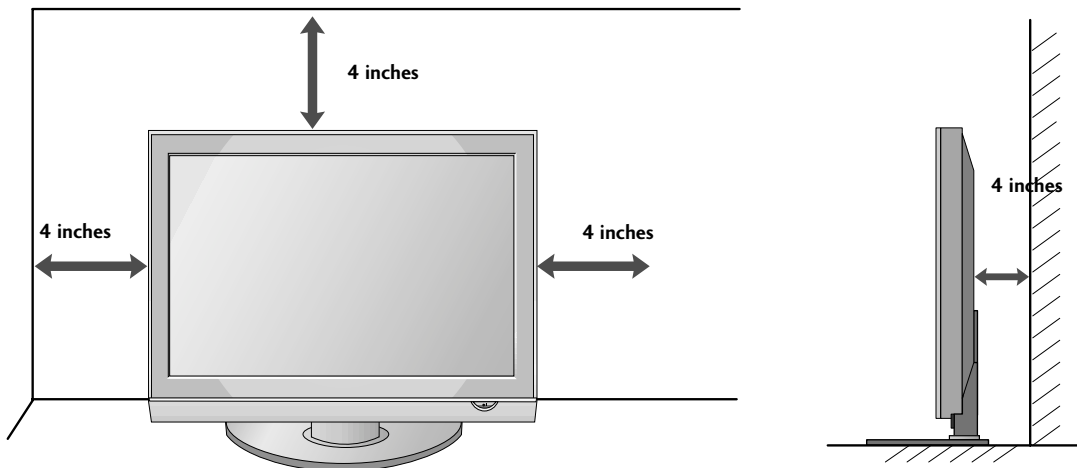
EARTHING

Ensure that you connect the earth 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 earth the TV by connecting it to telephone wires, lightening rods or gas pipes.

DESKTOP PEDESTAL INSTALLATION

For adequate ventilation allow a clearance of 4" (10cm) all around the TV .

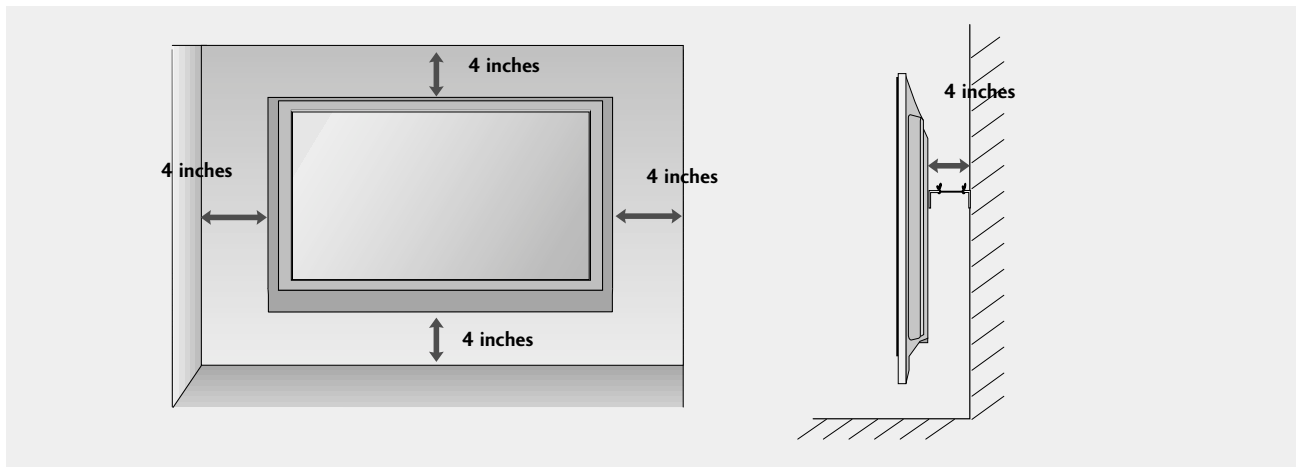
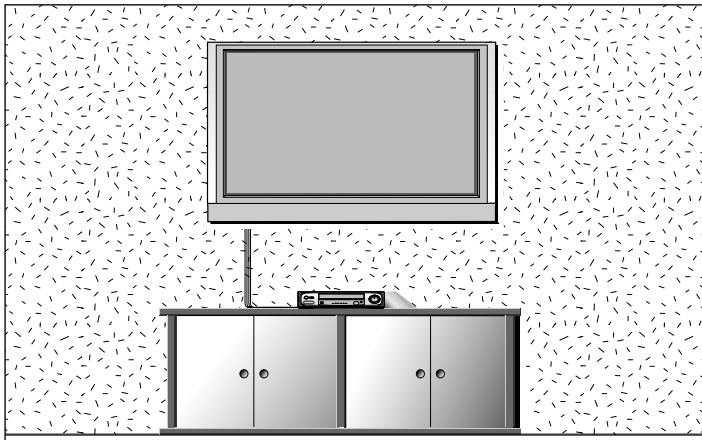


PREPARATION

WALL MOUNT: HORIZONTAL INSTALLATION

For adequate ventilation allow a clearance of 4" (10cm) all around the TV. We recommend that you use a wall mounting bracket of LG brand when mounting the TV to a wall.

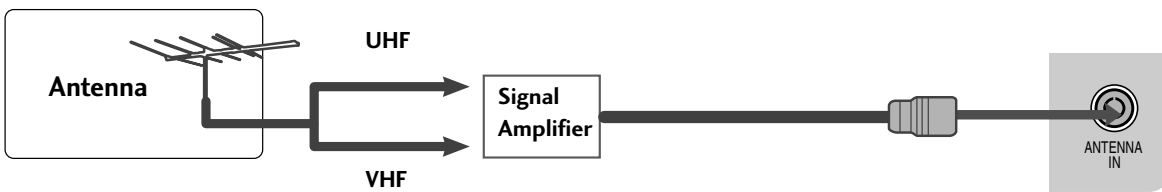
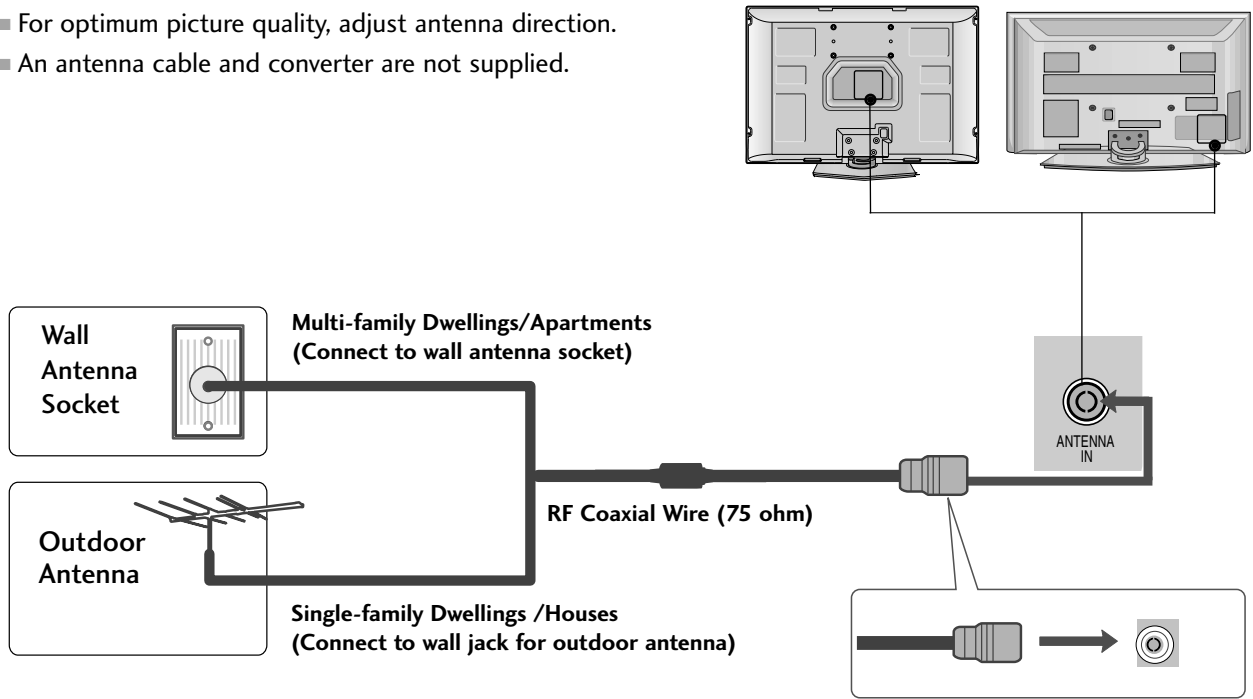
PREPARATION



- To prevent damage do not connect to the mains outlet until all connections are made between the devices.

ANTENNA CONNECTION

- For optimum picture quality, adjust antenna direction.
- An antenna cable and converter are not supplied.



- In poor signal areas, to achieve better picture quality it may be necessary to install a signal amplifier to the antenna as shown above.
- If signal needs to be split for two TVs, use an antenna signal splitter for connection.

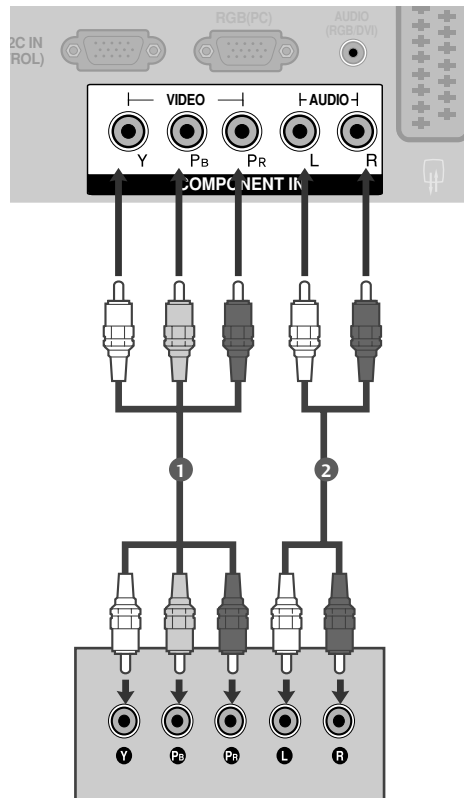
EXTERNAL EQUIPMENT SETUP

- To avoid damaging any equipment, never plug in any power cords until you have finished connecting all equipment.
- Image shown may differ from your TV.

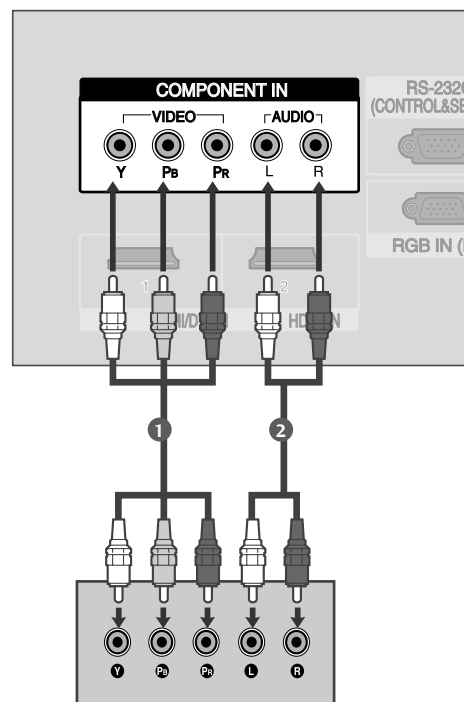
HD RECEIVER SETUP

Connecting with a component cable

- 1 Connect the video outputs (Y, PB, PR) of the digital TV top box to the **COMPONENT IN VIDEO** jacks on the TV.
- 2 Connect the audio output of the digital set-top box to the **COMPONENT IN AUDIO** jacks on the TV.
- 3 Turn on the digital set-top box.
(Refer to the owner's manual for the digital set-top box.)
- 4 Select **Component** input source using the **INPUT** button on the remote control.



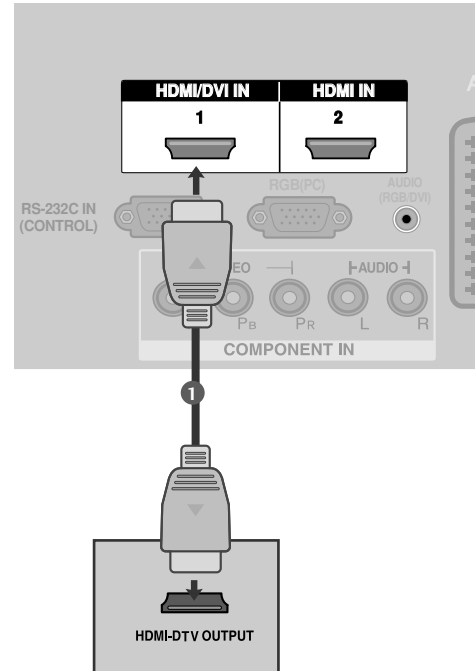
Only 32PC5***



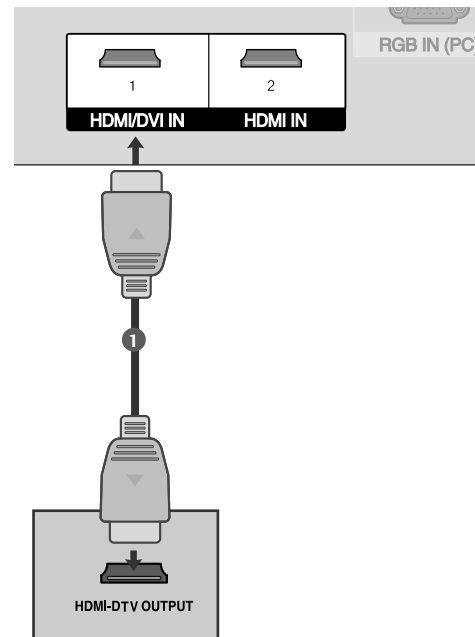
Signal	Component	HDMI1/DVI, HDMI2(Only 42/50PG2***)
480i/576i	Yes	No
480p/576p	Yes	Yes
720p/1080i	Yes	Yes
1080p	Yes (Only 50Hz, 60Hz)	Yes (24Hz, 30Hz, 50Hz, 60Hz)

Connecting a set-top box with an HDMI cable

- 1 Connect the HDMI output of the digital set-top box to the **HDMI/DVI IN** or **HDMI IN2** (Except 42/50PG1***) models jack on the TV.
- 2 Select **HDMI1/DVI** or **HDMI2** (Except 42/50PG1***) input source 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.)



Only 32PC5***



! NOTE

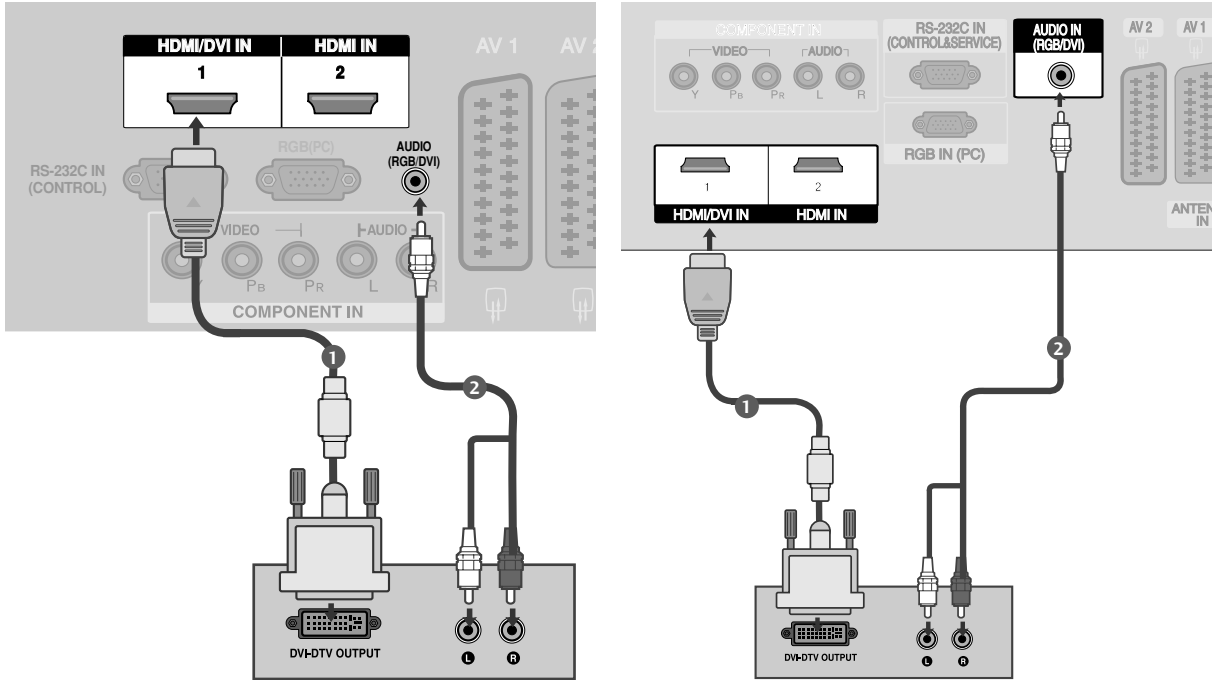
- ▶ TV can receive the video and audio signal simultaneously with using a HDMI cable.
- ▶ If the digital set-top box supports Auto HDMI function, the output resolution of the source device will be automatically TV to 1280x720p.
- ▶ If the digital set-top box player does not support Auto HDMI, you need to TV the output resolution appropriately.

To get the best picture quality, adjust the output resolution of the source device to 1280x720p.

EXTERNAL EQUIPMENT SETUP

Connecting with a HDMI to DVI cable

Only 32PC5***



- 1 Connect the DVI output of the digital set-top box to the **HDMI/DVI IN 1** jack on the TV.
- 2 Connect the audio output of the digital set-top box to the **AUDIO (RGB/DVI)** jack on the TV.
- 3 Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
- 4 Select **HDMI1/DVI** input source using the **INPUT** button on the remote control.

! NOTE

- ▶ HDMI2 (Except 42/50PG1***)source does not support DVI source.
- ▶ If the set-top has a DVI output and no HDMI output, a separated audio connection is necessary.
- ▶ If the set-top Box does not support Auto DVI, you need to set the output resolution appropriately.

DVD SETUP

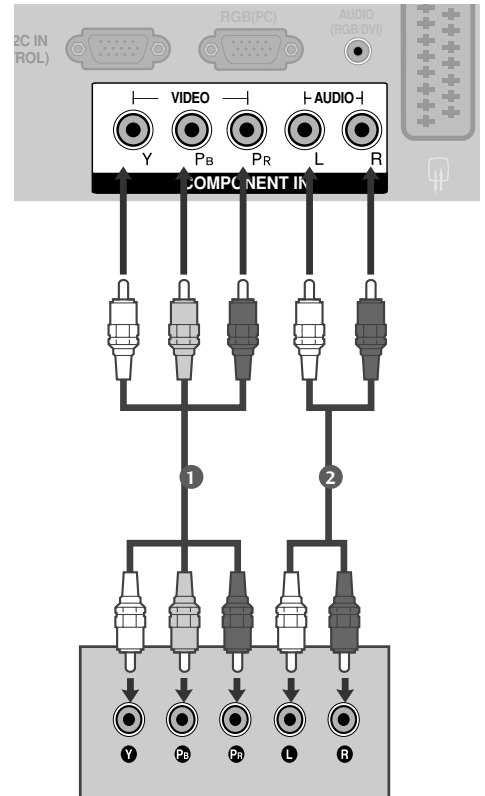
Connecting with a component cable

- 1 Connect the video outputs (Y, Pb, Pr) of the DVD to the **COMPONENT IN VIDEO** jacks on the TV.
- 2 Connect the audio outputs of the DVD to the **COMPONENT IN AUDIO** jacks on the TV.
- 3 Turn on the DVD player, insert a DVD.
- 4 Select **Component** input source using the **INPUT** button on the remote control.
- 5 Refer to the DVD player's manual for operating instructions.

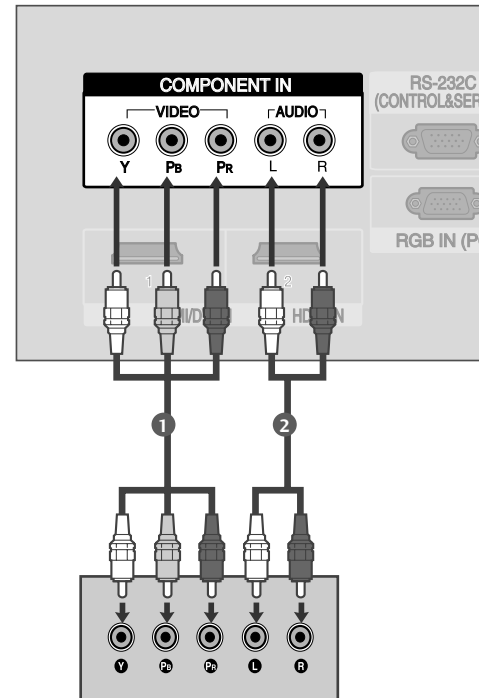
Component Input ports

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

Component ports on the TV	Y	Pb	Pr
Video output ports on DVD player	Y	Pb	Pr
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	Pb	Pr



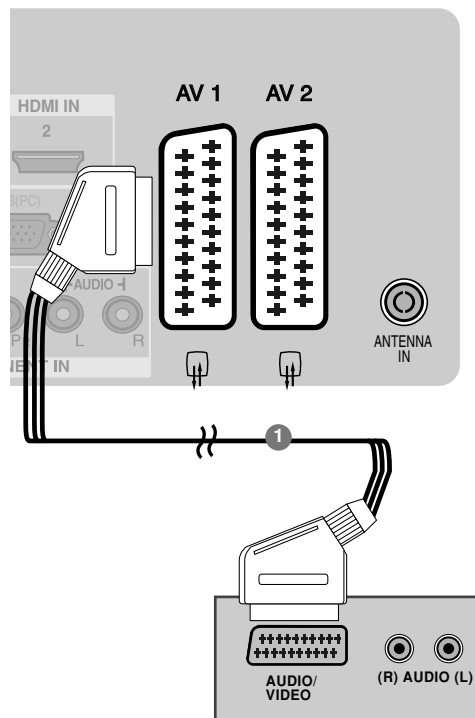
Only 32PC5***



EXTERNAL EQUIPMENT SETUP

When connecting with a Euro Scart

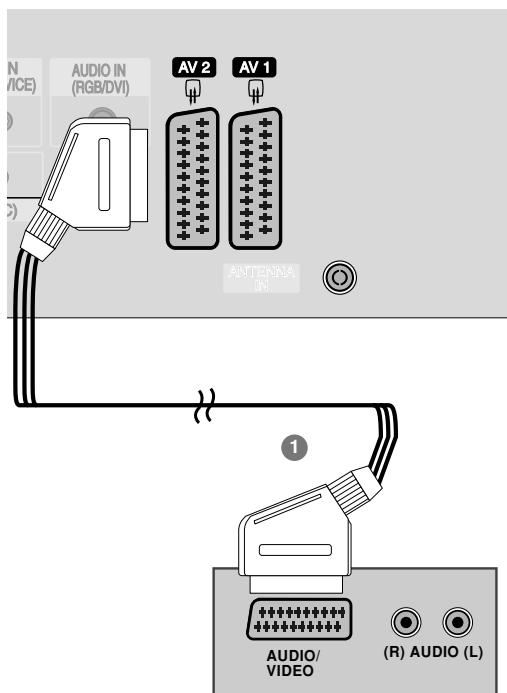
- 1 Connect the Euro scart socket of the DVD to the **AV1** Euro scart socket on the set.
- 2 Turn on the DVD player, insert a DVD.
- 3 Select **AV1** input source with using the **INPUT** button on the remote control.
If connected to **AV2** Euro scart socket, select **AV2** input source.
- 4 Refer to the DVD player's manual for operating instructions.



! NOTE

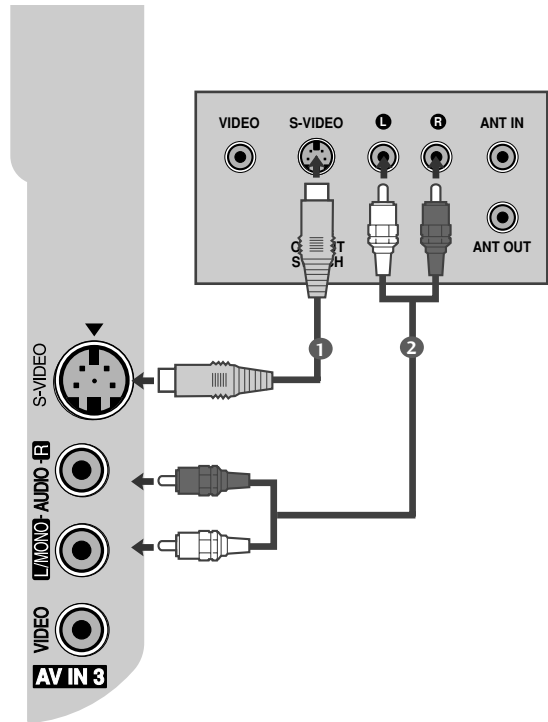
- ▶ If you want to use the EURO scart cable, you have to use the signal shielded Euro scart cable.

Only 32PC5***



Connecting with a S-Video cable (Except 42/50PG1***, 32PC5***)

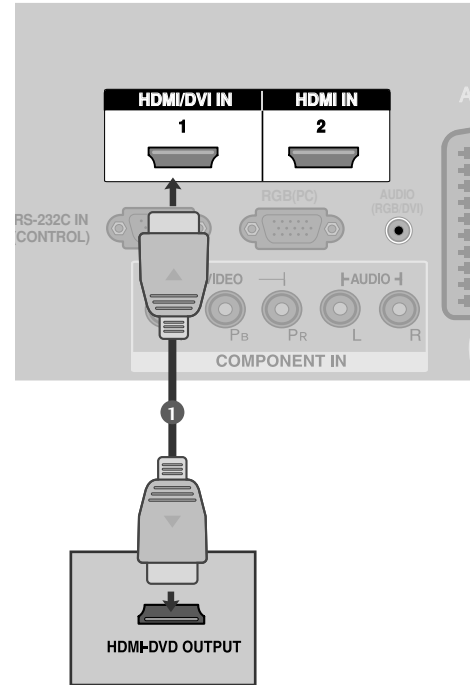
- 1 Connect the S-VIDEO output of the DVD to the **S-VIDEO** input on the TV.
- 2 Connect the audio outputs of the DVD to the **AUDIO** input jacks on the TV.
- 3 Turn on the DVD player, insert a DVD.
- 4 Select **AV3** input source using the **INPUT** button on the remote control.
- 5 Refer to the DVD player's manual for operating instructions.



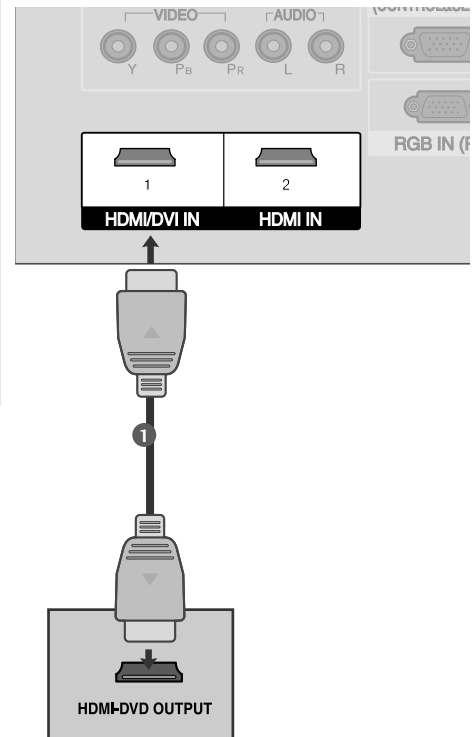
EXTERNAL EQUIPMENT SETUP

Connecting the HDMI cable

- 1 Connect the HDMI output of the DVD to the **HDMI1/DVI IN** or **HDMI IN2** (Except 42/50PG1***) jack on the TV.
- 2 Select **HDMI1/DVI** or **HDMI2** (Except 42/50PG1***) input source using the **INPUT** button on the remote control.
- 3 Refer to the DVD player's manual for operating instructions.



Only 32PC5***



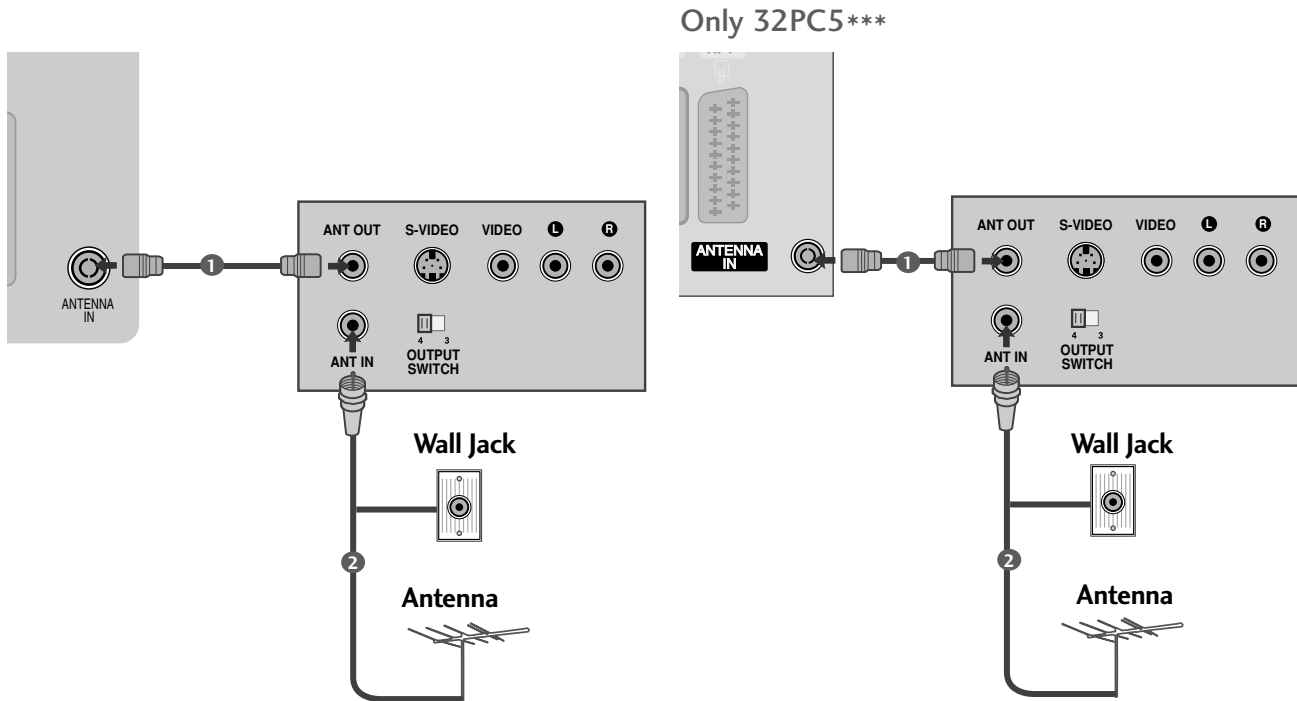
! NOTE

- ▶ The TV can receive video and audio signals simultaneously when using a HDMI cable.
 - ▶ If the DVD player supports Auto HDMI function, the output resolution of the source device will be automatically TV to 1280x720p.
 - ▶ If the DVD player does not support Auto HDMI, you must TV the output resolution appropriately.
- To get the best picture quality, adjust the output resolution of the source device to 1280x720p.

VCR SETUP

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

Connecting with a RF cable



- 1 Connect the **ANT OUT** socket of the VCR to the **ANTENNA IN** socket on the TV.
- 2 Connect the antenna cable to the **ANT IN** socket of the VCR.
- 3 Press the **PLAY** button on the VCR and match the appropriate programme between the TV and VCR for viewing.

EXTERNAL EQUIPMENT SETUP

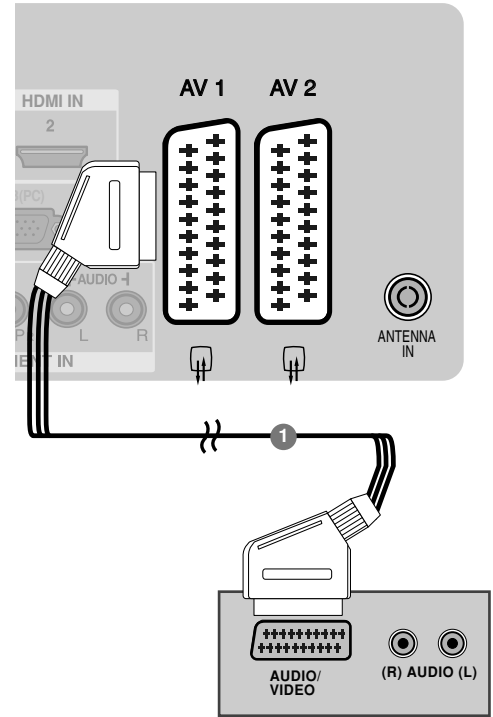
When connecting with a Euro Scart

- 1 Connect the Euro scart socket of the VCR to the **AV1** Euro scart socket on the set.
- 2 Insert a video tape into the VCR and press **PLAY** on the VCR. (Refer to the VCR owner's manual.)
- 3 Select **AV1** input source with using the **INPUT** button on the remote control.

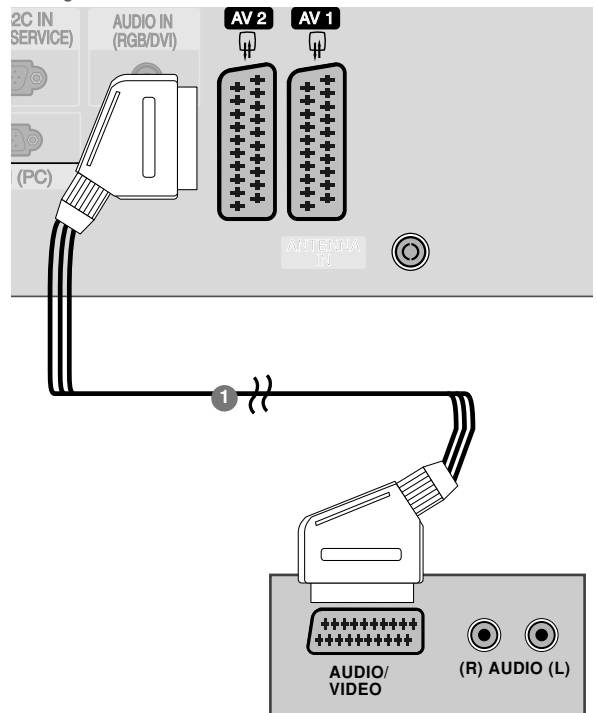
If connected to **AV2** Euro scart socket, select **AV2** input source.

! NOTE

- ▶ If you want to use the EURO scart cable, you have to use the signal shielded Euro scart cable.



Only 32PC5***

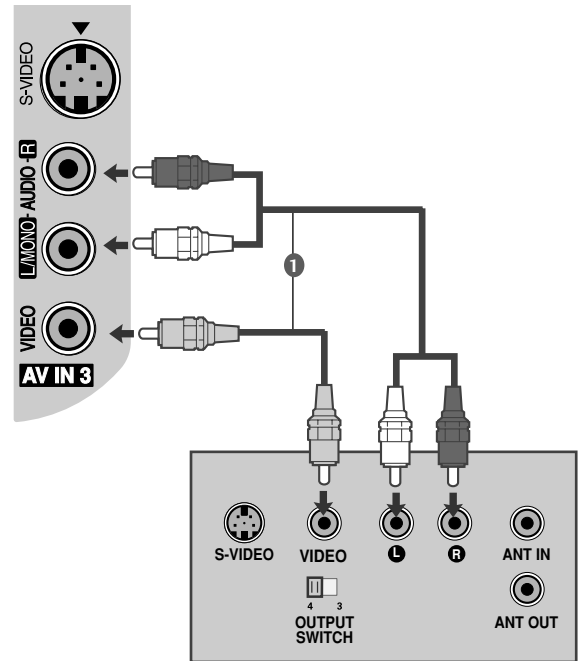


When connecting with a RCA cable (Except 42/50PG1***, 32PC5***)

- 1 Connect the **AUDIO/VIDEO** jacks between TV and VCR. Match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red)
- 2 Insert a video tape into the VCR and press **PLAY** on the VCR. (Refer to the VCR owner's manual.)
- 3 Select **AV3** input source using the **INPUT** button on the remote control.

! NOTE

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



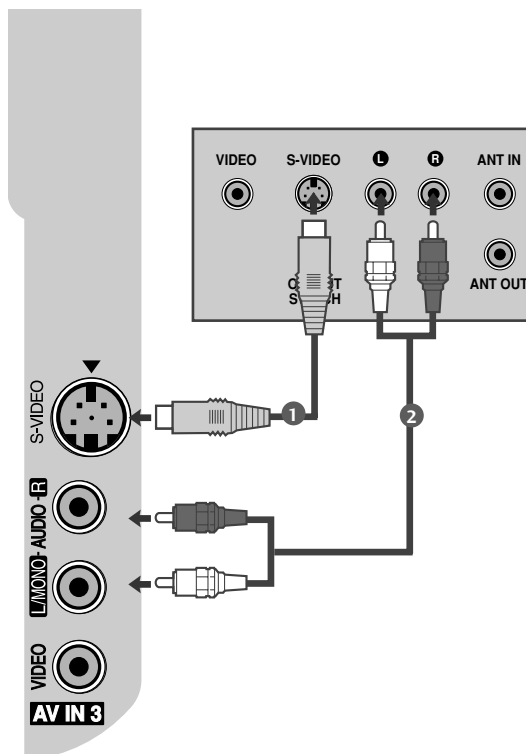
EXTERNAL EQUIPMENT SETUP

When connecting with an S-Video cable (Except 42/50PG1***, 32PC5***)

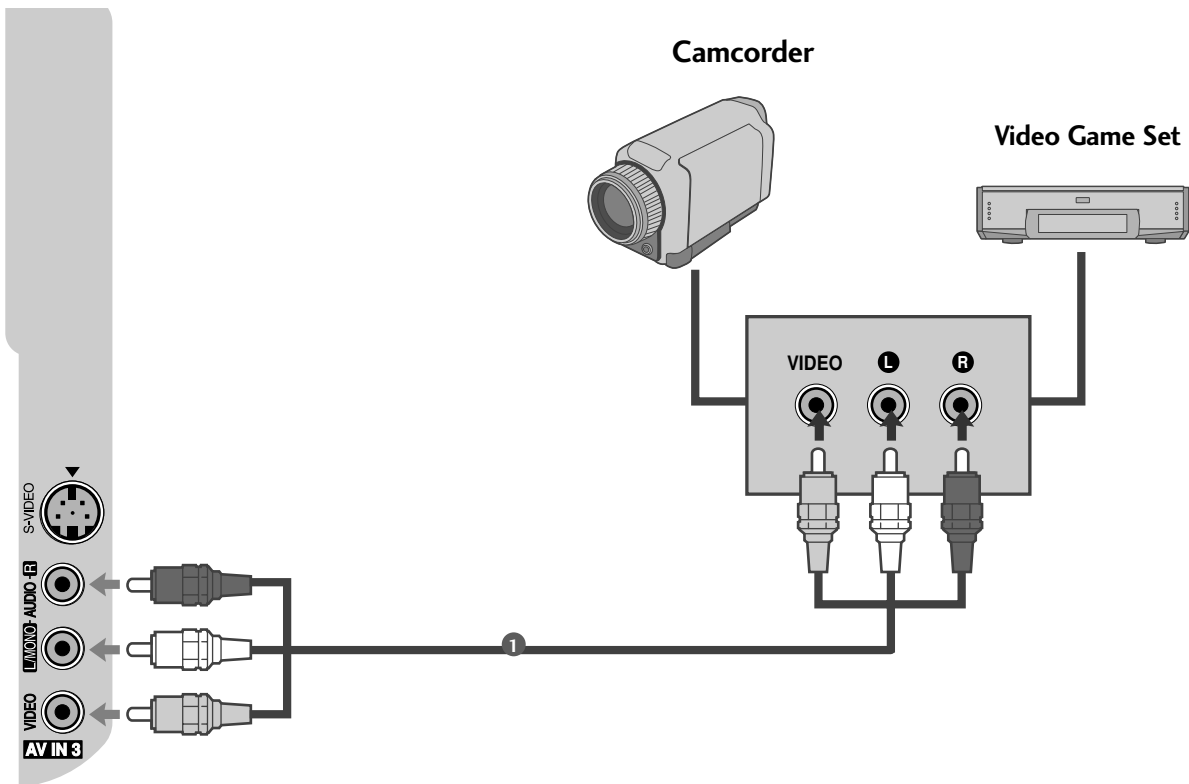
- 1 Connect the S-VIDEO output of the VCR to the **S-VIDEO** input on the set. The picture quality is improved; compared to normal composite (RCA cable) input.
- 2 Connect the audio outputs of the VCR to the **AUDIO** input jacks on the set.
- 3 Insert a video tape into the VCR and press **PLAY** on the VCR. (Refer to the VCR owner's manual.)
- 4 Select **AV3** input source with using the **INPUT** button on the remote control.

! NOTE

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



OTHER A/V SOURCE SETUP (Except 42/50PG1***, 32PC5***)



- 1 Connect the **AUDIO/VIDEO** jacks between TV and external equipment. Match the jack colours. (Video = yellow, Audio Left = white, and Audio Right = red)
- 2 Select **AV3** input source using the **INPUT** button on the remote control.
- 3 Operate the corresponding external equipment. Refer to external equipment operating guide.

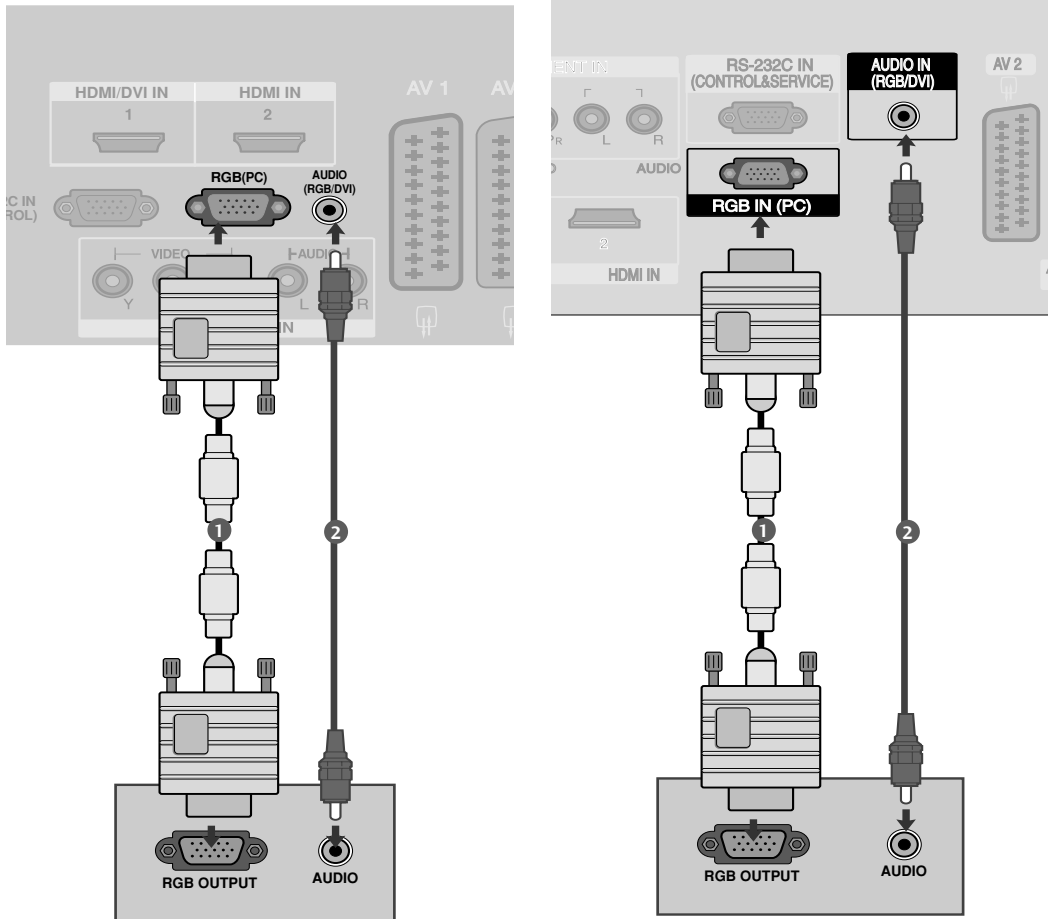
EXTERNAL EQUIPMENT SETUP

PC SETUP

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

Connecting with a D-sub 15 pin cable

Only 32PC5***



- 1 Connect the RGB output of the PC to the **RGB (PC)** jack on the TV.
.....
- 2 Connect the PC audio output to the **AUDIO** jack on the TV.
.....
- 3 Turn on the PC and the TV.
.....
- 4 Select **RGB PC** input source using the **INPUT** button on the remote control.

NOTE

- ▶ To enjoy vivid picture and sound, connect the PC to the TV.
- ▶ Avoid keeping a fixed image on the TV's screen for prolonged periods of time. The fixed image may become permanently imprinted on the screen; use a screen saver when possible.
- ▶ Connect the PC to the RGB (PC) port of the TV; change the resolution output of PC accordingly.
- ▶ There may be interference relating to resolution, vertical pattern, contrast or brightness in PC mode. Change the PC mode to another resolution or change the refresh rate to another rate or adjust the brightness and contrast on the menu until the picture is clear. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult the manufacturer of the PC graphic card.
- ▶ The synchronization input waveform for Horizontal and Vertical frequencies are separate.
- ▶ We recommend using 1024 x 768, 60Hz (32PC5*** VGA PLASMA TV Models) 1024 x 768, 60Hz (42PG1***, 42PG2*** XGA PLASMA TV Models)/1360 x 768, 60Hz (50PG1***, 50PG2***) for the PC mode, these should provide the best picture quality.
- ▶ If the resolution of PC is over SXGA, there will be no picture on the TV.
- ▶ Connect the audio cable from the PC to the Audio input on the TV. (Audio cables are not included with the TV).
- ▶ If you use too long an RGB-PC cable, there may be interference on the screen. We recommend using under 5m of the cable. This provides the best picture quality.

Supported Display Resolution

RGB-PC mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
640x350	31.468	70.09
720x400	31.469	70.09
640x480	31.469	59.94
800x600	37.879	60.317
848x480	29.514	59.75
852x480	32	60.491
1024x768	48.363	60.004
1280x768	47.776	59.87
1360x768	47.720	59.799

Only 50PG1***, 50PG2*** Only 32PC5***

HDMI-DTV mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720x480	31.47 31.50	59.94 60.00
720x576	31.25	50.00
1280x720	44.96 45.00 37.50	59.94 60.00 50.00
1920x1080i	33.72 33.75 28.125	59.94 60.00 50.00
1920x1080p	67.432 67.5 56.250 27 33.75	59.94 60 50 24 30

EXTERNAL EQUIPMENT SETUP

Screen Setup for PC mode

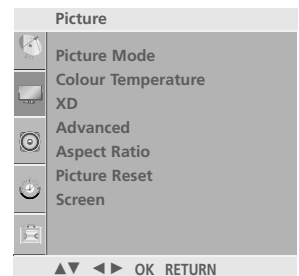
Auto Configure (RGB [PC] mode only)

Automatically adjusts picture position and minimizes image instability. After adjustment, if the image is still not correct, your TV is functioning properly but needs further adjustment.

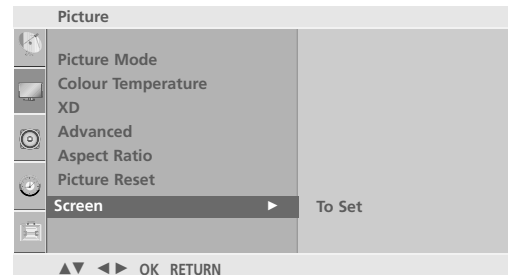
Auto configure

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

- 1 Press the **MENU** button and then use \wedge/\vee button to select the **Picture** menu.
- 2 Press the \triangleright button and then use \wedge/\vee button to select **Screen**.
- 3 Press the \triangleright button and then use \wedge/\vee button to select **Auto Config.**
- 4 Press the \triangleright button to start **Auto Config.**
 - When Auto config. has finished, OK will be shown on screen.
 - If the position of the image is still not correct, try Auto adjustment again.
- 5 Press the **MENU** button to return to normal TV viewing. Press the **RETURN** button to move to the previous menu screen.



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3 4

Manual Configure (Adjustment for screen Phase, Clock, Position) (RGB [PC] mode only)

If the picture is not clear after auto adjustment and especially if characters are still trembling, adjust the picture phase manually.

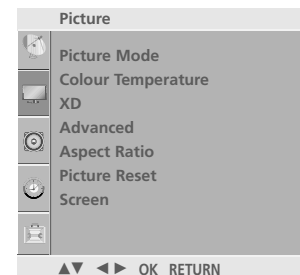
To correct the screen size, adjust **Clock**.

It's not available to use Phase, Clock function in COMPONENT (480i/480p/576i/576p/720p/1080i/1080p), HDMI (480p/576p/720p/1080i/1080p).

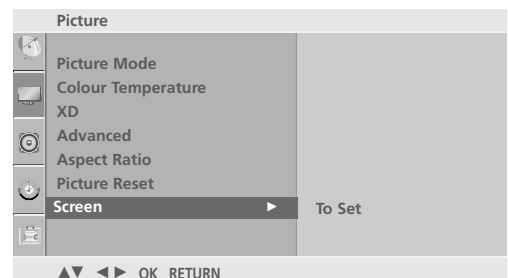
Clock This function is to minimize any vertical bars or stripes visible on the screen background the horizontal screen size will also change.

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

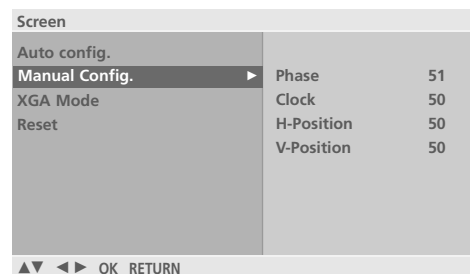
- 1 Press the **MENU** button and then use \wedge / \vee button to select the **Picture** menu.
- 2 Press the \triangleright button and then use \wedge / \vee button to select **Screen**.
- 3 Press the \triangleright button and then use \wedge / \vee button to select **Manual Config..**
- 4 Press the \triangleright button and then use \wedge / \vee button to select **Phase, Clock, H-Position** or **V-Position**.
- 5 Press the $\triangleleft / \triangleright$ button to make appropriate adjustments.
- 6 Press the **MENU** button to return to normal TV viewing. Press the **RETURN** button to move to the previous menu screen.



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3 4 5

EXTERNAL EQUIPMENT SETUP

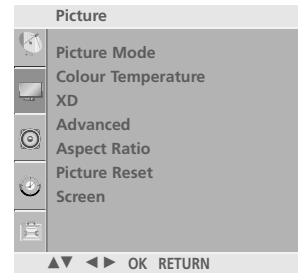
Selecting XGA/VGA mode (Only 50PG1***, 50PG2***, 32PC5***)

This feature is not available for all models.

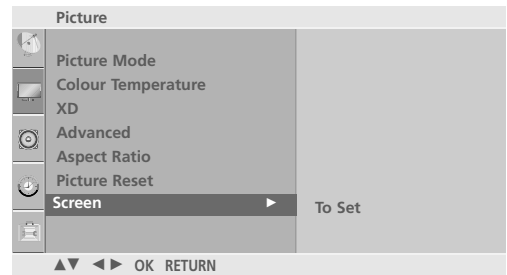
To view a normal picture, match the resolution of RGB mode and selection of XGA/VGA mode.

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

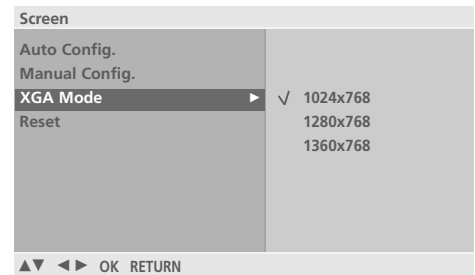
- 1 Press the **MENU** button and then use \wedge/\vee button to select the **Picture** menu.
- 2 Press the \triangleright button and then use \wedge/\vee button to select **Screen**.
- 3 Press the \triangleright button and then use \wedge/\vee button to select **XGA Mode** or **VGA Mode**.
- 4 Press the \triangleright button and then use \wedge/\vee button to select the desired XGA/VGA resolution.
- 5 Press the **MENU** button to return to normal TV viewing. Press the **RETURN** button to move to the previous menu screen.



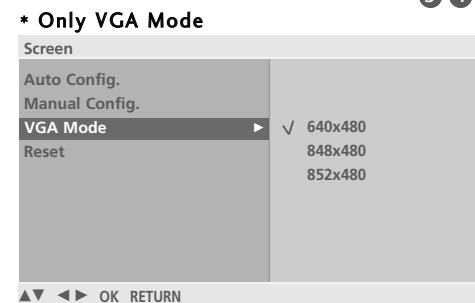
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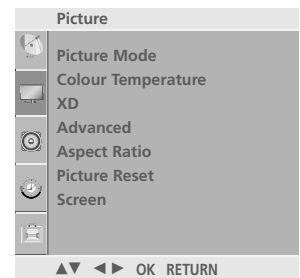
3 4

Initializing (Reset to original factory settings)

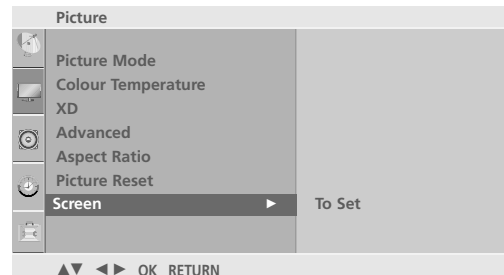
This function operates in current mode.

To initialize the adjusted value

- 1 Press the **MENU** button and then use \wedge/\vee button to select the **Picture** menu.
- 2 Press the \gt button and then use \wedge/\vee button to select **Screen**.
- 3 Press the \gt button and then use \wedge/\vee button to select **Reset**.
- 4 Press the \gt button.
- 5 Press the **MENU** button to return to normal TV viewing.
Press the **RETURN** button to move to the previous menu screen.



1



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3 4

WATCHING TV / PROGRAMME CONTROL

REMOTE CONTROL KEY FUNCTIONS (ONLY 42/50PG2***)

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



RATIO Selects your desired picture format.

SOUND To select the sound appropriate to your viewing programme.

POWER Switches the TV on from standby or off to standby.

PICTURE Adjusts the factory preset picture according to the room.

INPUT External input mode rotate in regular sequence. Switches the TV on from standby.

Q. MENU Select the desired quick menu source.

MENU Selects a menu. Clears all on-screen displays and returns to TV viewing from any menu.

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

RETURN Allows the user to move return one step in an interactive application or other user interaction function.

1 TELETEXT BUTTONS These buttons are used for teletext. For further details, see the 'Teletext' section.

AV MODE It helps you select and set images and sounds when connecting AV devices.

Coloured buttons These buttons are used for teletext (on **TELETEXT** models only) , **Programme edit**.



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

OK Accepts your selection or displays the current mode.

VOLUME +/- Adjusts the volume.

FAV Displays the selected favourite programme.

MUTE Switches the sound on or off.

Programme ^ / v Selects a programme.

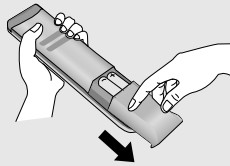
0~9 number button Selects a programme.
Selects numbered items in a menu.

LIST Displays the programme table.

Q.VIEW Returns to the previously viewed programme.

VCR/DVD control buttons Controls some video cassette recorders or DVD players.
Control connected AV devices by pressing the ^ / v / < / > , OK buttons and buttons for ►, ■, ||, ◀◀ and ▶▶.
(The ● button does not provide such functions.)

Installing Batteries



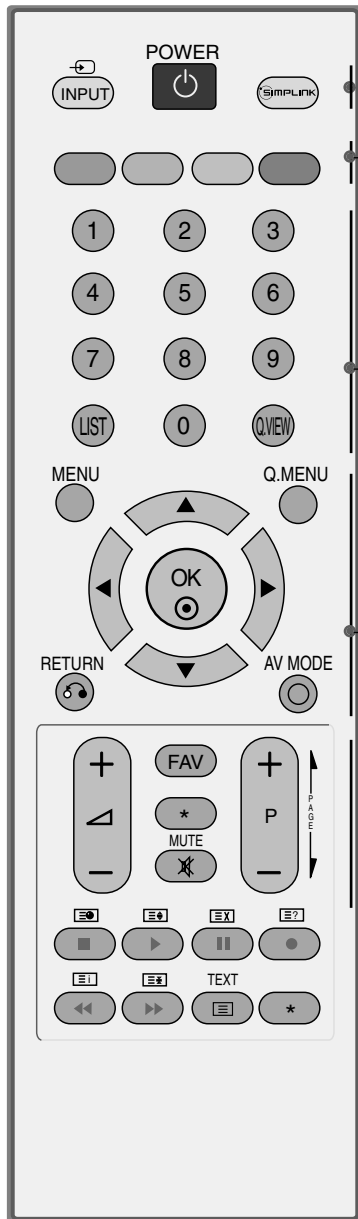
- Open the battery compartment cover on the back and install the batteries matching correct polarity (+with +,-with -).
- Install two 1.5V AAA batteries. Do not mix old or used batteries with new ones.
- Close cover.

WATCHING TV / PROGRAMME CONTROL

REMOTE CONTROL KEY FUNCTIONS (Except 42/50PG2***)

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

WATCHING TV / PROGRAMME CONTROL



POWER Switches the TV on from standby or off to standby.

INPUT External input mode rotate in regular sequence. Switches the TV on from standby.

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

Coloured buttons These buttons are used for teletext (on **TELETEXT** models only) or **Programme edit**.

0~9 number button Selects a programme. Selects numbered items in a menu.

LIST Displays the programme table.

Q.VIEW Returns to the previously viewed programme.

MENU Selects a menu. Clears all on-screen displays and returns to TV viewing from any menu.

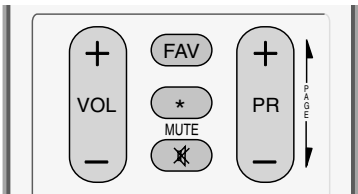
RETURN Allows the user to move return one step in an interactive application or other user interaction function.

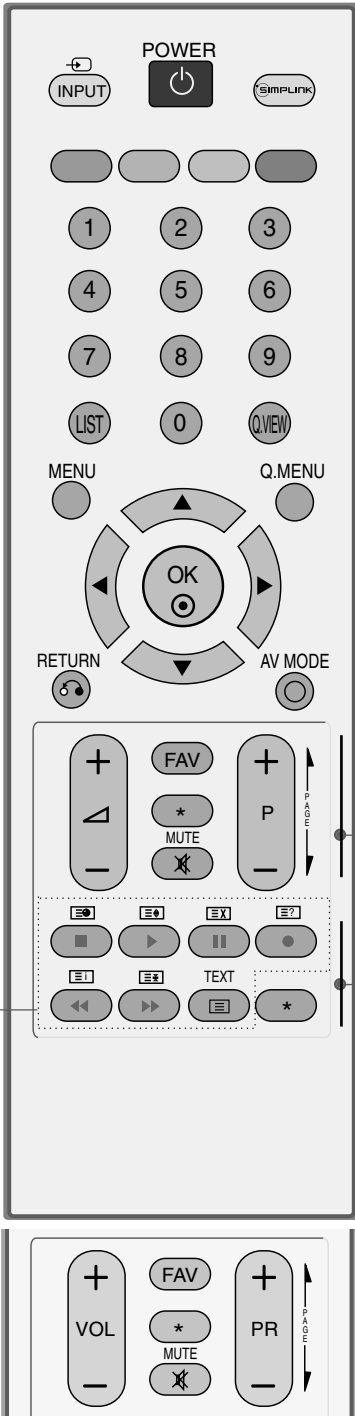
Q. MENU Select the desired quick menu source.

AV MODE It helps you select and set images and sounds when connecting AV devices.

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

OK Accepts your selection or displays the current mode.





1 **TELETEXT BUTTONS** These buttons are used for teletext. For further details, see the 'Teletext' section.

VOLUME +/- Adjusts the volume.

MUTE Switches the sound on or off.

* No function

FAV Displays the selected favourite programme.

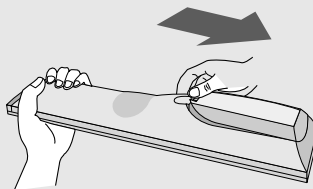
Programme +/- Selects a programme.

PAGE UP/DOWN Move from one full set of screen information to the next one.

VCR/DVD control buttons Controls some video cassette recorders or DVD players. Control connected AV devices by pressing the ^ / v / < / > , OK buttons and buttons for ►, ■, ||, ◀◀ and ▶▶. (The ● button does not provide such functions.)

* No function

Installing Batteries



- Open the battery compartment cover on the back and install the batteries matching correct polarity (+with +,-with -).
- Install two 1.5V AAA batteries. Do not mix old or used batteries with new ones.
- Close cover.

WATCHING TV / PROGRAMME CONTROL

TURNING ON THE TV

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

- 1 Firstly, connect the power cord correctly.
At this stage, the TV switches to standby mode.
 - In standby mode to turn TV on, press the $\phi/|$, **INPUT**, **P ▲ / ▼** (or **PR ▲ / ▼**) button on the TV or press the **POWER**, **INPUT**, **P ▲ / ▼** (or **P +/-** or **PR +/-**), **NUMBER(0~9)** buttons on the remote control and the TV will switch on.

Initializing Guide

If the OSD (On Screen Display) is displayed on the screen after turning on the TV, you can adjust the **Language, Location, Country, Auto Tuning**.

Note:

- a. It will automatically disappear after approx. 40 seconds unless a button is pressed.
- b. "In-Store" mode is only for shop display and not for general customer use.
- c. "Home" mode is the optimal setting for home environments, and is the TV's default mode.
- d. "In-Store" mode is the optimal setting for store environments. If a user modifies image quality data, "In-Store" mode initializes the product to the image quality set by us after a certain period of time.
- e. The mode (Home, In-Store) can be changed by executing Factory Reset in the Option menu.

PROGRAMME SELECTION

- 1 Press the **P ▲ / ▼** (or **P +/-** or **PR +/-**) or **NUMBER** buttons to select a programme number.

VOLUME ADJUSTMENT

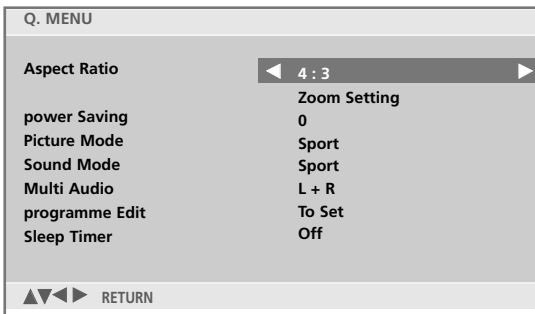
- 1 Press the \triangle **+/-** (or **VOL +/-**) button to adjust the volume.
- 2 If you wish to switch the sound off, press the **MUTE** button.
- 3 You can cancel the Mute function by pressing the **MUTE** or \triangle **+/-** (or **VOL +/-**) button.

QUICK MENU

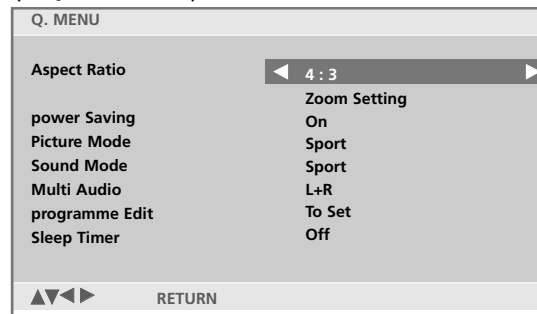
Your TV's OSD (On Screen Display) may differ slightly from that shown in this manual.

Q.Menu (Quick Menu) is a menu of features which users might use frequently.

- **Aspect Ratio**: Selects your desired picture format.
For Zoom Setting, select 14:9, Zoom1 and Zoom2 in Ratio Menu. After completing Zoom Setting, the display goes back to Q.Menu.
- **Power Saving** : Adjusts screen brightness to reduce the power consumption of the set.
- **Picture Mode** : Selects your desired Picture Mode.
- **Sound Mode** : It is a feature to automatically set the sound combination which it deems the best for the images being watched. Selects your desired Sound Mode.
- **Multi Audio** : Selects the sound output.
- **Programme Edit** : Adjusts the stored programmes by delete, copy, move or skip.
- **Sleep Timer** : Select the sleep timer.



(only 32PC5***)



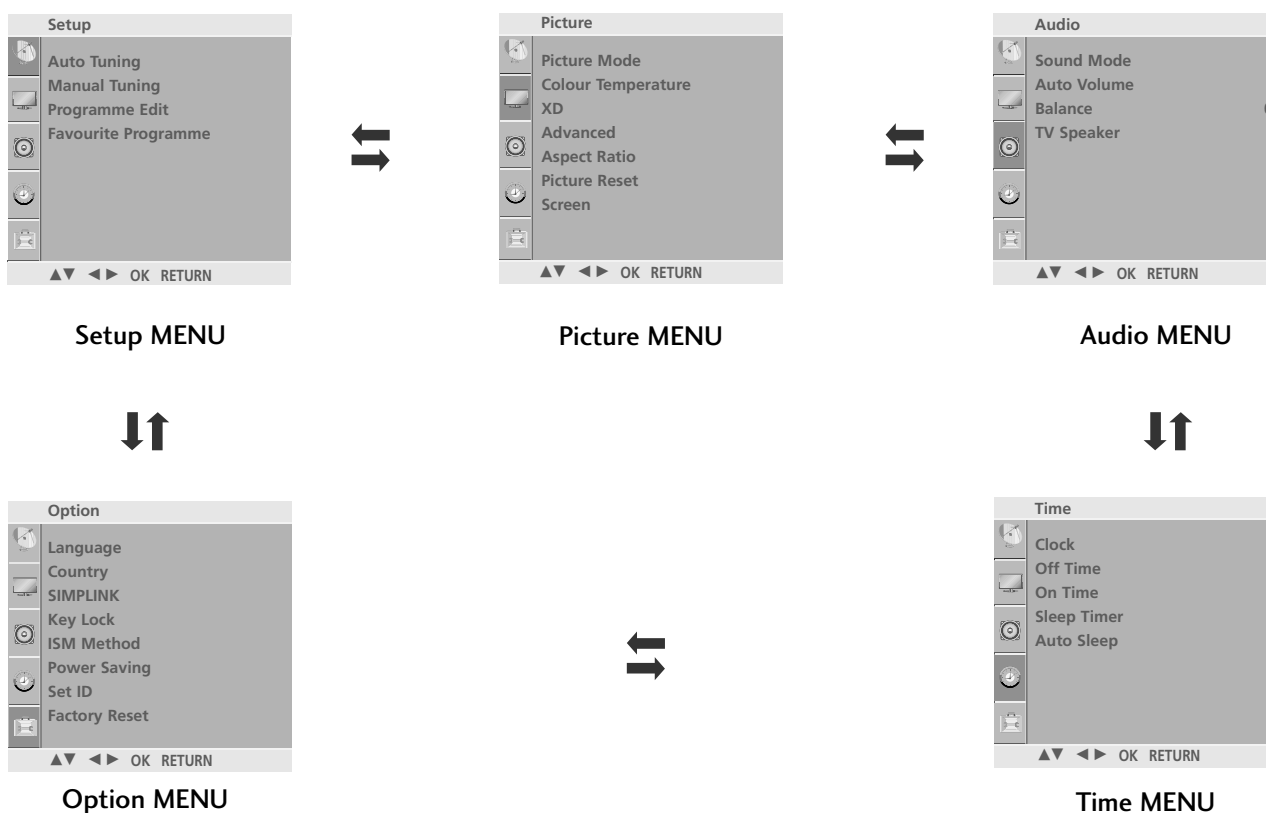
- 1 Press the **Q.MENU** button and then \wedge / \vee button to display each menu.
- 2 Press the $< / >$ button to select your desired Source.
- 3 Press the **Q.MENU** button to return to normal TV viewing.
Press the **RETURN** button to move to the previous menu screen.

WATCHING TV / PROGRAMME CONTROL

ON SCREEN MENUS SELECTION AND ADJUSTMENT

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

- 1 Press the **MENU** button and then \wedge / \vee button to display each menu.
- 2 Press the \triangleright button and then \wedge / \vee button to select a menu item.
- 3 Change the setting of an item in the sub or pull-down menu with $\triangleleft / \triangleright$ button.
You can move to a higher level menu by pressing the **OK**.



! NOTE

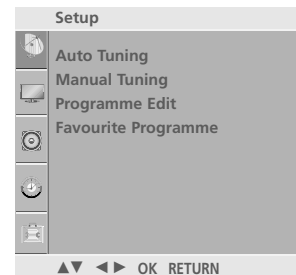
- a. The OSD (On Screen Display) function enables you to adjust the screen status conveniently since it provides graphical presentation.
- b. In this manual, the OSD (On Screen Display) may be different from your TV's because it is just example to help the TV operation.
- c. In the teletext mode, menus are not displayed.

AUTO PROGRAMME TUNING

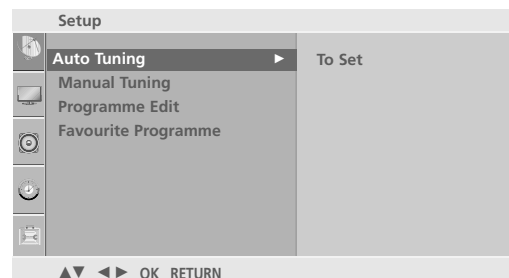
Up to 100 TV stations can be stored by programme numbers (0 to 99). Once you have preset the stations, you will be able to use the **P** \wedge / \vee (or **P** +/- or **PR** +/-) or **NUMBER** buttons to scan the stations you have programmed. Stations can be tuned using automatic or manual modes.

All stations which can be received are stored by this method. It is recommended that you use Auto tuning during installation of this TV.

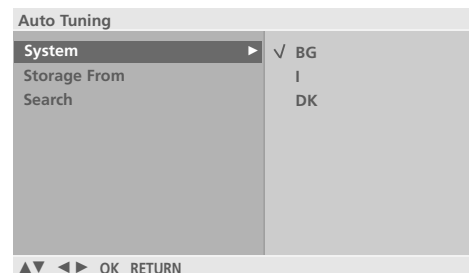
- 1 Press the **MENU** button and then \wedge / \vee button to select the **Setup** menu.
 - 2 Press the \rightarrow button and then \wedge / \vee button to select **Auto Tuning**.
 - 3 Press the \rightarrow button and then \wedge / \vee button to select **System**.
 - 4 Press the \wedge / \vee button to select a TV system menu;
 BG: PAL B/G, SECAM B/G (Europe / East Europe / Asia / NewZealand / M.East / Africa / Australia)
 I : PAL I/II (U.K. / Ireland / Hong Kong / South Africa)
 DK: PAL D/K, SECAM D/K (East Europe / China / Africa / CIS)
 - 5 Press the \wedge / \vee button to select **Storage From**.
 - 6 Press the \leftarrow / \rightarrow button or **NUMBER** buttons to select the initial programme number. If you use **NUMBER** buttons, any number under 10 is entered with a numeric '0' in front of it, i.e. '05' for 5.
 - 7 Press the \wedge / \vee button to select **Search**.
 - 8 Press the \rightarrow button to begin auto tuning.
 All receivable stations are stored.
- To stop auto tuning, press the **RETURN** button.
 When auto tuning is complete, the Programme edit menu appears on the screen. See the Programme edit section to edit the stored programme.
- 9 Press the **MENU** button to return to normal TV viewing.
 Press the **RETURN** button to move to the previous menu screen.



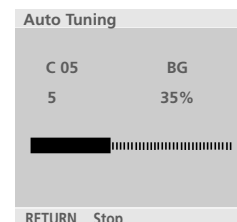
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3 4 5 6 7



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MANUAL PROGRAMME TUNING

Manual programme lets you manually tune and arrange the stations in whatever order you desire.

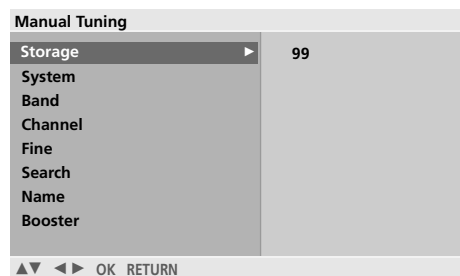
- 1 Press the **MENU** button and then \wedge / \vee button to select the **Setup** menu.
- 2 Press the \triangleright button and then \wedge / \vee button to select **Manual Tuning**.
- 3 Press the \triangleright button and then \wedge / \vee button to select **Storage**.
- 4 Press the $\triangleleft / \triangleright$ button or NUMBER buttons to select the desired programme number (0 to 99). If you use NUMBER buttons, any number under 10 is entered with a numeric '0' in front of it, i.e. '05' for 5.
- 5 Press the \wedge / \vee button to select **System**.
- 6 Press the \wedge / \vee button to select a TV system menu;
 BG : PAL B/G, SECAM B/G (Europe / East Europe / Asia / NewZealand / M.East / Africa / Australia)
 I : PAL I/II (U.K. / Ireland / Hong Kong / South Africa)
 DK : PAL D/K, SECAM D/K (East Europe / China / Africa / CIS)
- 7 Press the \wedge / \vee button to select **Band**.
- 8 Press the \triangleright button and then \wedge / \vee button to select **V/UHF** or **Cable**.
- 9 Press the \wedge / \vee button to select **Channel**.
- 10 You can select the desired programme number with the $\triangleleft / \triangleright$ button or NUMBER buttons. If possible, select the programme number directly with the number buttons. Any number under 10 is entered with a numeric '0' in front of it, i.e. '05' for 5.
- 11 Press the \wedge / \vee button to select **Search**.
- 12 Press the $\triangleleft / \triangleright$ button to commence searching. If a station is found the search will stop.
- 13 Press the **OK** button to store it.
- 14 To store another station, repeat steps 3 to 13.
- 15 Press the **MENU** button to return to normal TV viewing.
 Press the **RETURN** button to move to the previous menu screen.



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3 4 5 6 7
8 9 10 11 12

FINE TUNING

Normally fine tuning is only necessary if reception is poor.

- 1 Press the **MENU** button and then \wedge / \vee button to select the **Setup** menu.

- 2 Press the \triangleright button and then \wedge / \vee button to select **Manual Tuning**.

- 3 Press the \triangleright button and then \wedge / \vee button to select **Fine**.

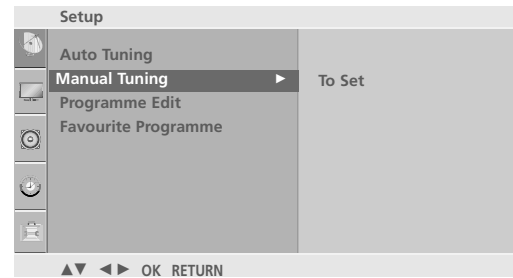
- 4 Press the \triangleright button and then $\triangleleft / \triangleright$ button to fine tune for the best picture and sound.

- 5 Press the **OK** button to store it.

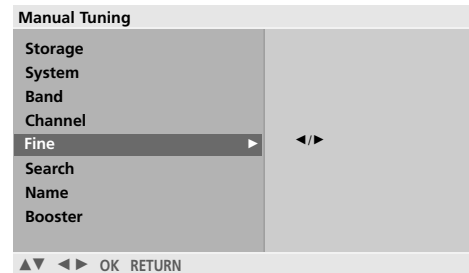
- 6 Press the **MENU** button to return to normal TV viewing.
Press the **RETURN** button to move to the previous menu screen.



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WATCHING TV / PROGRAMME CONTROL

ASSIGNING A STATION NAME

You can assign a station name up to five characters to each programme number.

- 1 Press the **MENU** button and then \wedge / \vee button to select the **Setup** menu.

- 2 Press the \triangleright button and then \wedge / \vee button to select **Manual Tuning**.

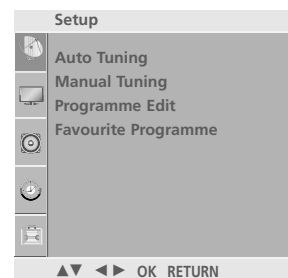
- 3 Press the \triangleright button and then \wedge / \vee button to select **Name**.

- 4 Press the \triangleright button and then \wedge / \vee button. You can use a blank, +, -, the number **0** to **9** and the alphabet **A** to **Z**.

- 5 Press the $\triangleleft / \triangleright$ button to select the position and make your choice of the second character, and so on.

- 6 Press the **OK** button to store it.

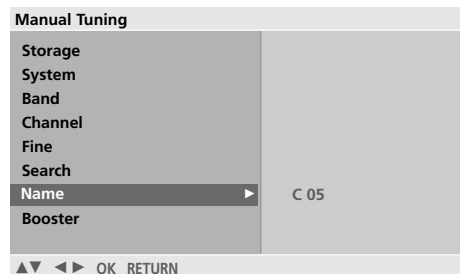
- 7 Press the **MENU** button to return to normal TV viewing.
Press the **RETURN** button to move to the previous menu screen.



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BOOSTER

In some models, **Booster** is an optional function. Only a set with **Booster** can perform this function.

If reception is poor select **Booster** to **On**.
When the signal is strong, select "OFF".

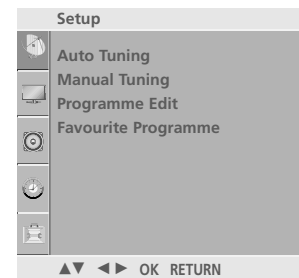
1 Press the **MENU** button and then \wedge/\vee button to select the **Setup** menu.

2 Press the \triangleright button and then \wedge/\vee button to select **Manual Tuning**.

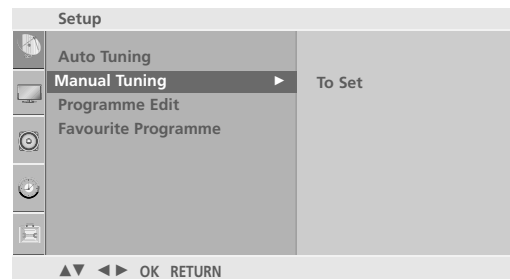
3 Press the \triangleright button and then use \wedge/\vee button to select **Booster**.

4 Press the \triangleright button and then use \wedge/\vee button to select **On** or **Off**.

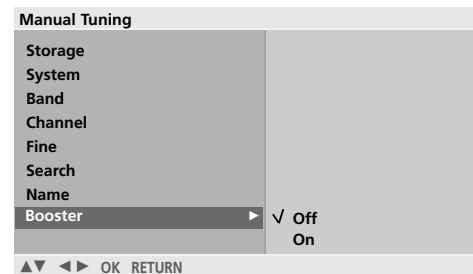
5 Press the **MENU** button to return to normal TV viewing.
Press the **RETURN** button to move to the previous menu screen.



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PROGRAMME EDIT

This function enables you to delete or skip stored programmes. Also you can move some stations to other programme numbers or copy a blank station data into the selected programme number.

1 Press the **MENU** button and then \wedge / \vee button to select the **Setup** menu.

2 Press the \gt button and then \wedge / \vee button to select **Programme Edit**.

3 Press the \gt button to display the Programme edit menu.

■ Deleting a programme

1. Select a programme to be deleted with the $\wedge / \vee / \lt / \gt$ button.
2. Press the RED button twice.
The selected programme is deleted, all the following programmes are shifted up one position.

■ Auto sorting a programme

1. Using priority information supported by program, arrange searched program automatically.
2. You cannot sort programs manually after auto sorting.

■ Moving a programme

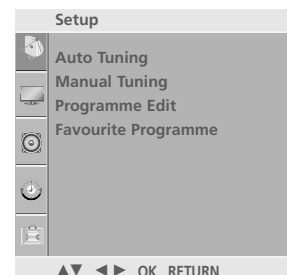
1. Select a programme to be moved with the $\wedge / \vee / \lt / \gt$ button.
2. Press the YELLOW button.
3. Move the programme to the desired programme number with the $\wedge / \vee / \lt / \gt$ button.
4. Press the YELLOW button again to release this function.

■ Skipping a programme number

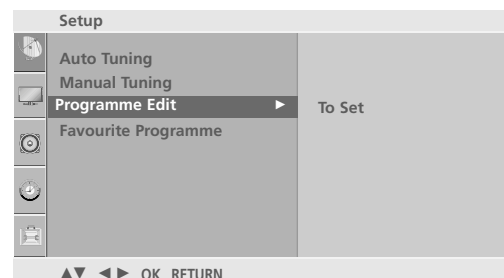
1. Select a programme number to be skipped with the $\wedge / \vee / \lt / \gt$ button.
2. Press the BLUE button. The skipped programme turns to blue.
3. Press the BLUE button again to release the skipped programme.

When a programme number is skipped it means that you will be unable to select it using the \wedge / \vee button during normal TV viewing. If you wish to select the skipped programme, directly enter the programme number with the NUMBER buttons or select it in the programme edit or table menu.

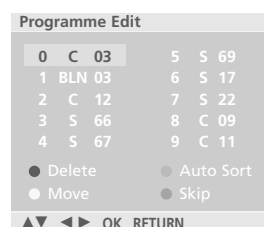
4 Press the **MENU** button to return to normal TV viewing.
Press the **RETURN** button to move to the previous menu screen.



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FAVOURITE PROGRAMME

This function lets you select your favourite programmes directly.

Repeatedly press the FAV button to select stored favourite programmes.

1 Press the **MENU** button and then \wedge / \vee button to select the **Setup** menu.

2 Press the $>$ button and then \wedge / \vee button to select **Favourite Programme**.

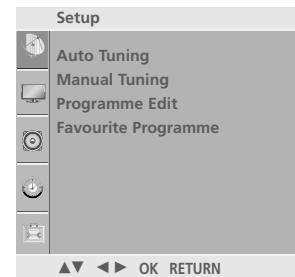
3 Press the $>$ button.

4 Press the \wedge / \vee button to select - - - - -.

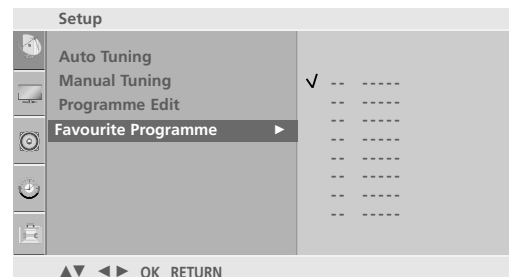
5 Select a desired programme with the $< / >$ button or **NUMBER** buttons. Any number under 10 is entered with a numeric '0' in front of it, i.e. '05' for 5.

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

7 Press the **MENU** button to return to normal TV viewing. Press the **RETURN** button to move to the previous menu screen.



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SELECTING THE PROGRAMME LIST

You can check which programmes are stored in the memory by displaying the programme list.

■ Displaying programme list

Press the **LIST** button to display the Programme list menu.

The programme list appears on the screen.

One programme list contains ten programmes as shown.

! NOTE

- You may find some blue programmes. They have been set up to be skipped by auto programming or in the programme edit mode.
- Some programmes with the channel number shown in the programme list indicate there is no station name assigned.

■ Selecting a programme in the programme list

Select a programme with the $\wedge / \vee / \lt / \gt$ button.

Then press the **OK** button. The TV switches to the chosen programme number.

■ Paging through a programme list

There are 10 programme table pages in which contain 100 programmes. Pressing the $\wedge / \vee / \lt / \gt$ button repeatedly turns the pages.

Press the **LIST** button to return to normal TV viewing.

0	C	03	5	S	69
1	BLN	03	6	S	17
2	C	12	7	S	22
3	S	66	8	C	09
4	S	67	9	C	11

◀▶ ▲▼ OK



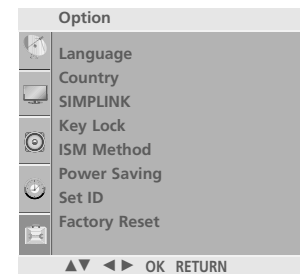
This function operates only with devices with the SIMPLINK logo.
Please check the SIMPLINK logo.

The product might not function properly when using it with other products with HDMI-CEC function.

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

If you do not require the SIMPLINK menu, select "Off".

- 1 Press the **MENU** button and then \wedge / \vee button to select the **Option** menu.
- 2 Press the \triangleright button and then \wedge / \vee button to select **SIMPLINK**.
- 3 Press the \triangleright button and then \wedge / \vee button to select **On** or **Off**.
- 4 Press the **MENU** button to return to normal TV viewing.
Press the **RETURN** button to move to the previous menu screen.



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WATCHING TV / PROGRAMME CONTROL

SIMPLINK Functions

Disc playback

Control connected AV devices by pressing the $\wedge / \vee / \lt / \gt$, OK, \blacktriangleright , \blacksquare , I , \ll and \gg buttons.
(The \bullet button does not provide such functions)

Direct Play

After connecting AV devices to the TV, you can directly control the devices and play media without additional settings.

Select AV device

Enables you to select one of the AV devices connected to the TV and operate it.

Power off all devices

When you switch off the TV, all connected devices are turned off.

Switch audio-out

Offers an easy way to switch audio-out.

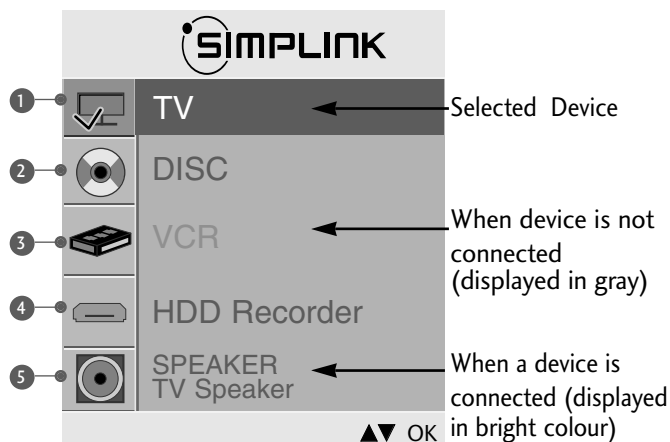
-Sync Power on : The television set will change automatically to turn on mode, after the Player with Simplink function start to reproduce through connection HDMI.

* A device, which is connected to the TV through a HDMI cable but does not support SIMPLINK, does not provide this function.

SIMPLINK Menu

Press the $\wedge / \vee / \lt / \gt$ button and then OK button to select the desired SIMPLINK source.

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



! NOTE

- ▶ Connect the HDMI/DVI IN or HDMI IN terminal of the TV to the rear terminal and Side terminal (HDMI terminal) of the SIMPLINK device with the HDMI cable.
- ▶ After connecting the HDMI terminal for the home theatre with SIMPLINK function using the above method, connect the VARIABLE AUDIO OUT terminal on the back of the TV to the VARIABLE AUDIO IN terminal on the back of the SIMPLINK device with the VARIABLE AUDIO OUT cable.
- ▶ When operating an external device with SIMPLINK, press the TV button from the MODE button on the remote control.
- ▶ When you switch the Input source using the INPUT button on the remote control, you can stop the operation of a device controlled by SIMPLINK.
- ▶ When you select or operate a media device with home theatre function, the speaker automatically switches to home theatre speaker (HT speaker).

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.

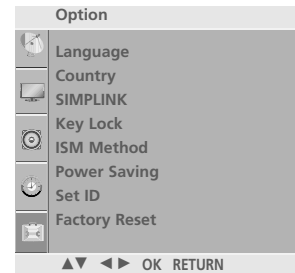
This TV is programmed to remember which option it was last set to even if you turn the TV off.

1 Press the **MENU** button and then \wedge / \vee button to select the **Option** menu.

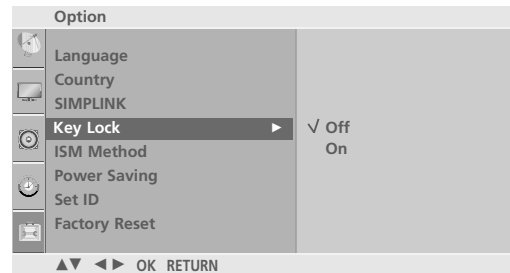
2 Press the \triangleright button and then \wedge / \vee button to select **Key Lock**.

3 Press the \triangleright button and then \wedge / \vee button to select **On** or **Off**.

4 Press the **MENU** button to return to normal TV viewing. Press the **RETURN** button to move to the previous menu screen.



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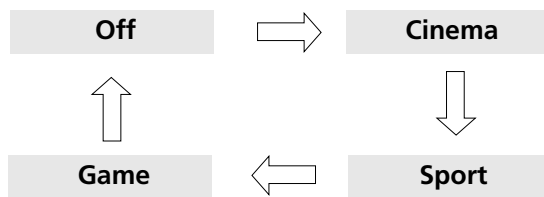
! NOTE

- ▶ In **Key Lock 'On'**, if the TV is turned off, press the ϕ / I , **INPUT**, **P** $\blacktriangle / \blacktriangledown$ (or **PR** $\blacktriangle / \blacktriangledown$) button on the TV or **POWER**, **INPUT**, **P** \wedge / \vee (or **P** +/- or **PR** +/-) or **NUMBER** buttons on the remote control.
- ▶ With the **Key Lock On**, the display 'Key Lock On' appears on the screen if any button on the front panel is pressed while viewing the TV.

WATCHING TV / PROGRAMME CONTROL

AV MODE

You can select the optimal images and sounds when connecting AV devices to external input.



1 Press the **AV MODE** button repeatedly to select the desired source.

- If you select Cinema Mode in AV mode, Cinema mode will be selected both for Picture Mode and Sound Mode in Picture menu and Audio menu respectively.

.....

- If you select "Off" in AV mode, the picture and image which you initially set will be selected.

2 Press the **RETURN** button to return to normal TV viewing.

PICTURE CONTROL

PICTURE SIZE (ASPECT RATIO)CONTROL

You can watch the screen in various picture formats; **16:9**, **Original**, **4:3**, **14:9**, **Zoom1/2** and **Just Scan**.

Just Scan works in the following mode:

Component (720p/1080i/1080p), HDMI (720p/1080i/1080p)

If a fixed image is displayed on the screen for a long time, that fixed image may become imprinted on the screen and remain visible.

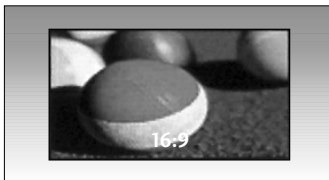
You can adjust the enlarge proportion using $\wedge \vee$ button.

This function works in the following signal.

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

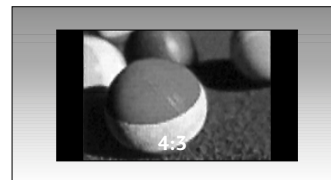
• 16:9

The following selection will allow you to adjust the picture horizontally, in linear proportion, to fill the entire screen (useful for viewing 4:3 formatted DVDs).



• 4:3

The following selection will allow you to view a picture with an original 4:3 aspect ratio, grey bars will appear on both the left and right hand of the screen.



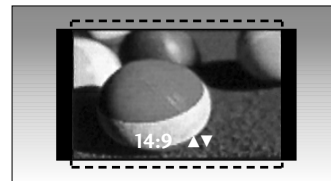
• Original

When your TV receives a wide screen signal it will automatically change to the picture format to be broadcast.



• 14:9

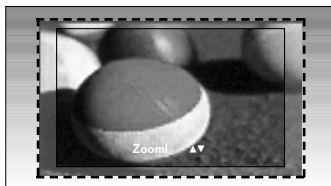
You can view a picture format of 14:9 or a general TV programme in the 14:9 mode. The 14:9 screen is viewed in the same way as in 4:3, but is magnified to the left and right.



PICTURE CONTROL

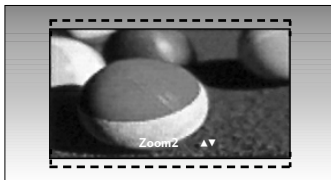
- **Zoom1**

The following selection will allow you to view the picture without any alteration, while filling the entire screen. However, the top and bottom of the picture will be cropped.



- **Zoom2**

Choose Zoom 2 when you wish the picture to be altered, both horizontally extended and vertically cropped. The picture adopting a compromise between alteration and screen coverage.



- **Just Scan**

Following Selection will lead to you view the picture of best quality without loss of original picture in high resolution image.

! NOTE

- ▶ You can only select 4:3,16:9 (Wide) in Component, HDMI, RGB(PC) mode.
- ▶ In HDMI/Component (over 720p)mode,) Just Scan is available.

PRESET PICTURE SETTINGS

Picture Mode-Preset

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

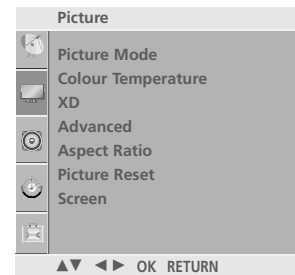
Vivid, Standard, Cinema, Sport and Game are programmed for optimum picture reproduction at the factory and cannot be changed.

- 1 Press the **MENU** button and then \wedge / \vee button to select the **Picture** menu.

- 2 Press the \triangleright button and then \wedge / \vee button to select **Picture Mode**.

- 3 Press the \triangleright button and then \wedge / \vee button to select **Vivid, Standard, Cinema, Sport, Game, User1 or User2**.

- 4 Press the **MENU** button to return to normal TV viewing. Press the **RETURN** button to move to the previous menu screen.



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PICTURE CONTROL

Auto Colour Tone Control(Cool/Medium/Warm)

To initialize values (reset to default settings), select the Cool option.

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

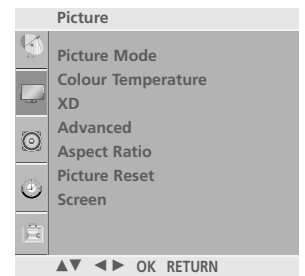
This menu is activated after selecting “User1” or “User2” in the Picture Mode.

1 Press the **MENU** button and then \wedge/\vee button to select the **Picture** menu.

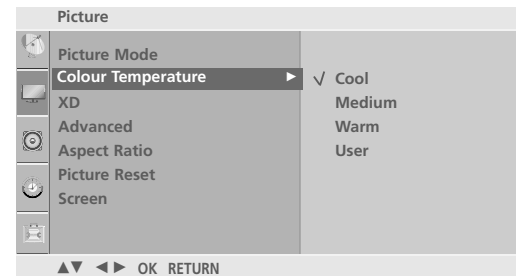
2 Press the \gt button and then \wedge/\vee button to select **Colour Temperature**.

3 Press the \gt button and then \wedge/\vee button to select either **Cool, Medium, Warm** or **User**.

4 Press the **MENU** button to return to normal TV viewing. Press the **RETURN** button to move to the previous menu screen.



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MANUAL PICTURE ADJUSTMENT

Picture Mode-User Option

Contrast	Adjusts the difference between light and dark levels in the picture.
Brightness	Increases or decreases the amount of white in the picture.
Colour	Adjusts intensity of all colours.
Sharpness	Adjusts the level of crispness in the edges between the light and dark areas of the picture. The lower the level, the softer the image.
Tint	Adjusts the balance between red and green levels.

1 Press the **MENU** button and then \wedge / \vee button to select the **Picture** menu.

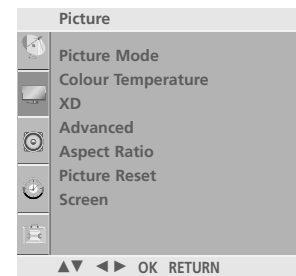
2 Press the $\>$ button and then \wedge / \vee button to select **Picture Mode**.

3 Press the $\>$ button and then \wedge / \vee button to select **User1** or **User2**.

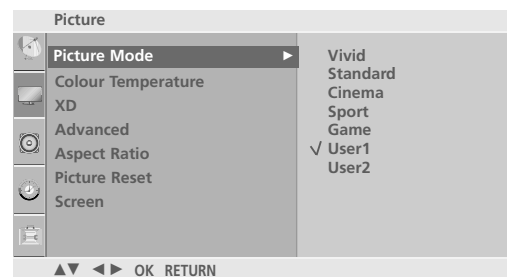
4 Press the $\>$ button and then \wedge / \vee button to select the desired picture option (**Contrast**, **Brightness**, **Colour**, **Sharpness** and **Tint**).

5 Press the \leftarrow / \rightarrow button to make appropriate adjustments.

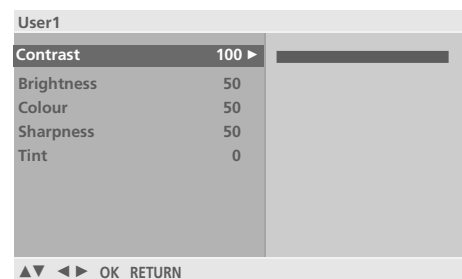
6 Press the **MENU** button to return to normal TV viewing. Press the **RETURN** button to move to the previous menu screen.



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! NOTE

- ▶ You cannot adjust colour, sharpness and tint in the RGB-PC mode.

PICTURE CONTROL

Colour Tone - User Option

To adjust red, green, blue to any colour temperature you prefer.

This menu is activated after selecting “User1” or “User2” in the Picture Mode.

1 Press the **MENU** button and then \wedge/\vee button to select the **Picture** menu.

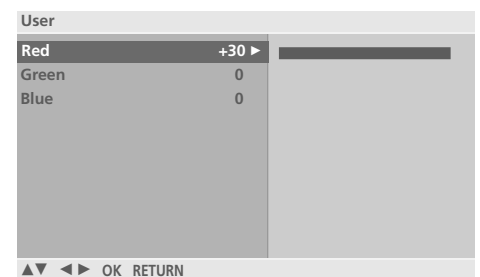
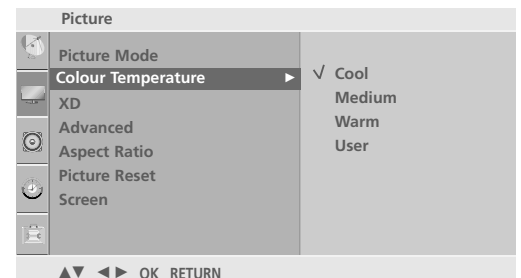
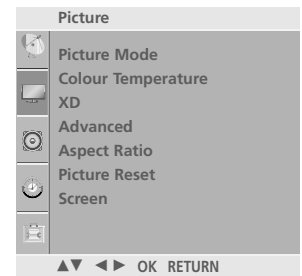
2 Press the $\>$ button and then \wedge/\vee button to select **Colour Temperature**.

3 Press the $\>$ button and then \wedge/\vee button to select **User**.

4 Press the $\>$ button and then \wedge/\vee button to select **Red**, **Green** or **Blue**.

5 Press the $\lt;/\gt$ button to make appropriate adjustments.

6 Press the **MENU** button to return to normal TV viewing.
Press the **RETURN** button to move to the previous menu screen.



XD - PICTURE IMPROVEMENT TECHNOLOGY

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

It is not possible to use this function in RGB-PC mode.

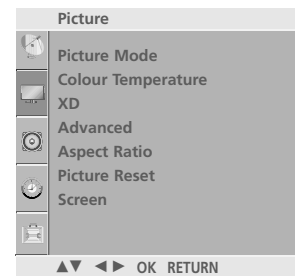
- 1 Press the MENU button and then \wedge/\vee button to select the **Picture** menu.
- 2 Press the \triangleright button and then \wedge/\vee button to select **XD**.
- 3 Press the \triangleright button and then \wedge/\vee button to select **Auto** or **Manual**.
- 4 Press the **MENU** button to return to normal TV viewing.
Press the **RETURN** button to move to the previous menu screen.

* Manual Selection

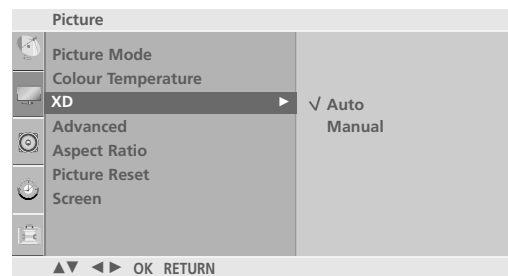
This menu is activated after selecting the **User1** or **User2** of **Picture Mode**.

- 1 Press the \triangleright button and then \wedge/\vee button to select **XD Contrast**, **XD Colour** or **XD NR**.
- 2 Press the \triangleright button and then \wedge/\vee button to select **Off**, **Low** or **High**.
Select **Off**, **Low**, **High** or **Adaptive** (Only XD NR).
- 3 Press the **MENU** button to return to normal TV viewing.
Press the **RETURN** button to move to the previous menu screen.

- **XD Contrast** : Optimises the contract automatically according to the brightness of the reflection.
- **XD Colour** : Adjusts the colour of the reflection automatically to reproduce as close as possible to natural colours.
- **XD NR** : Removes interference up to the point where it does not damage the original picture.



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PICTURE CONTROL

ADVANCED - GAMMA

High gamma values display whitish images and low gamma values display high contrast images.

It's not possible to use this function in RGB-PC mode.

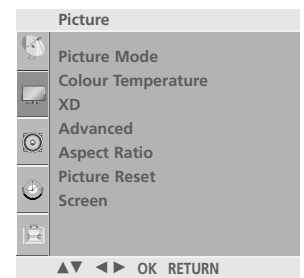
1 Press the **MENU** button and then \wedge/\vee button to select the **Picture** menu.

2 Press the $\>$ button and then \wedge/\vee button to select **Advanced**.

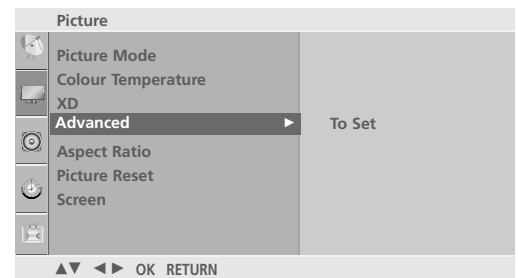
3 Press the $\>$ button and then \wedge/\vee button to select **Gamma**.

4 Press the $\>$ button and then \wedge/\vee button to select **Low**, **Medium** or **High**.

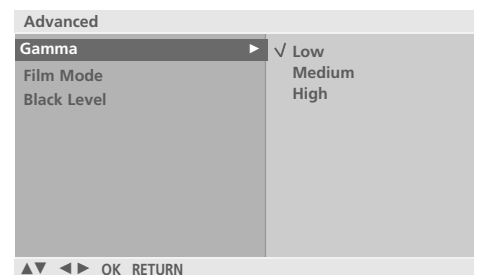
5 Press the **MENU** button to return to normal TV viewing. Press the **RETURN** button to move to the previous menu screen.



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ADVANCED - Film Mode

To set the TV up for the best picture quality for viewing films.

This feature operates only in Analog TV, AV, S-video and Component 480i/576i mode.

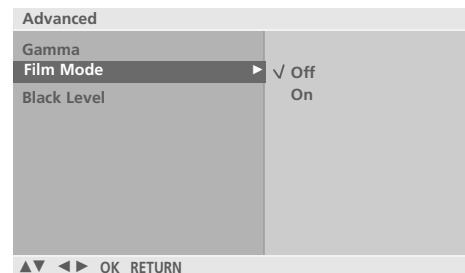
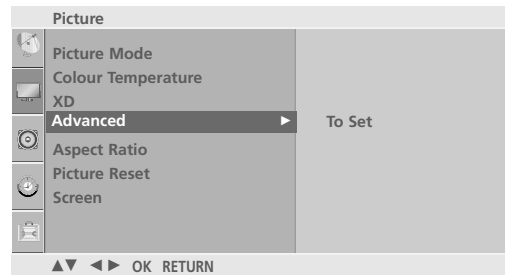
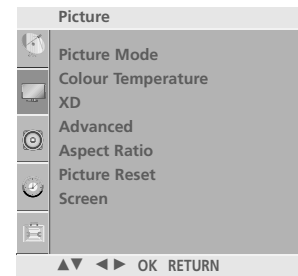
1 Press the **MENU** button and then \wedge/\vee button to select the **Picture** menu.

2 Press the \triangleright button and then \wedge/\vee button to select **Advanced**.

3 Press the \triangleright button and then \wedge/\vee button to select **Film Mode**.

4 Press the \triangleright button and then \wedge/\vee button to select **On** or **Off**.

5 Press the **MENU** button to return to normal TV viewing. Press the **RETURN** button to move to the previous menu screen.



PICTURE CONTROL

ADVANCED - BLACK(DARKNESS) LEVEL

When you view a film this function adjust the TV to best picture quality. Adjusting the contrast and the brightness of the screen using the black level of the screen.

This function works in the following mode: COMPONENT or HDMI.

1 Press the **MENU** button and then \wedge/\vee button to select the **Picture** menu.

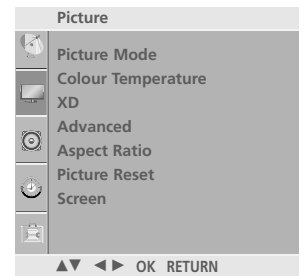
2 Press the $\>$ button and then \wedge/\vee button to select **Advanced**.

3 Press the $\>$ button and then \wedge/\vee button to select **Black Level**.

4 Press the $\>$ button and then \wedge/\vee button to select **Low** or **High**.

- **Low** : The reflection of the screen gets darker.
- **High** : The reflection of the screen gets brighter.

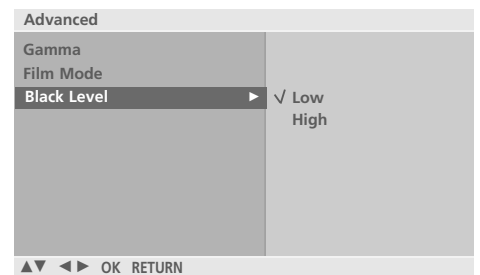
5 Press the **MENU** button to return to normal TV viewing. Press the **RETURN** button to move to the previous menu screen.



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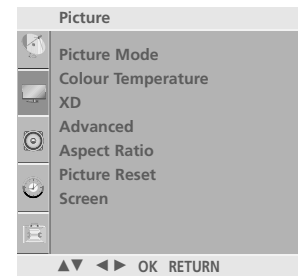


4

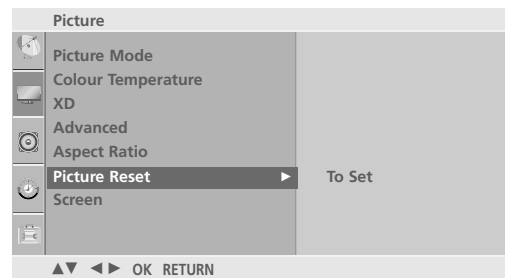
PICTURE RESET

Returns to the default factory setting for Picture Mode, Colour Temperature, XD, Advanced, Aspect Ratio.

- 1 Press the **MENU** button and then \wedge/\vee button to select the **Picture** menu.
- 2 Press the $\>$ button and then \wedge/\vee button to select **Picture Reset**.
- 3 Press the $\>$ button to initialize the adjusted value.
- 4 Press the **MENU** button to return to normal TV viewing. Press the **RETURN** button to move to the previous menu screen.



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IMAGE STICKING MINIMIZATION(ISM)METHOD

A frozen or still picture from a PC/Video game displayed on the screen for prolonged periods will result in a ghost image remaining even when you change the image. Avoid allowing a fixed image to remain on the screen for prolonged periods.

White Wash

White wash removes permanent images from the screen.

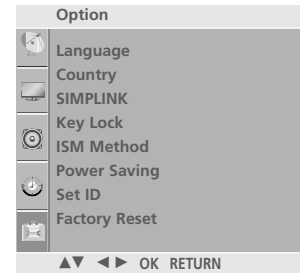
Note: An excessive permanent image may be impossible to clear entirely with White Wash.

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 screen will move every 2 minutes.

Inversion

This function inverts the panel colour of the screen. The panel colour is automatically inverted every 30 minutes.



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1 Press the **MENU** button and then \wedge/\vee button to select the **Option** menu.

2 Press the \triangleright button and then \wedge/\vee button to select **ISM Method**.

3 Press the \triangleright button and then \wedge/\vee button to select either **Normal**, **White Wash**, **Orbiter** or **Inversion**. If you do not need this function, set **Normal**.

4 Press the **MENU** button to return to normal TV viewing. Press the **RETURN** button to move to the previous menu screen.

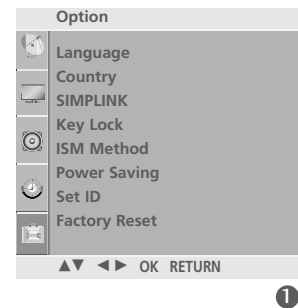


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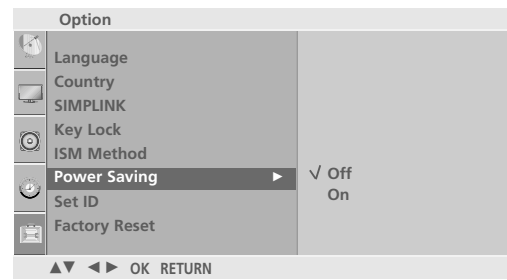
POWER SAVING PICTURE MODE

This function allows you to reduce the power consumption of the TV.

- 1 Press the **MENU** button and then \wedge / \vee button to select the **Option** menu.
- 2 Press the \triangleright button and then \wedge / \vee button to select **Power Saving**.
- 3 Press the \triangleright button and then \wedge / \vee button to select your desired source.
- 4 Press the **MENU** button to return to normal TV viewing. Press the **RETURN** button to move to the previous menu screen.



Only 32PC5***



NOTE (Except for 32PC5***)

- ▶ The default factory setting complies with the **Energy star** requirements and is adjusted to the comfortable level to be viewed at home.
- ▶ You can increase the brightness of your screen by adjusting the **Power Saving Level** or by setting the **Picture Mode**.

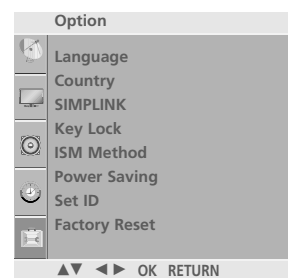
PICTURE CONTROL

FACTORY RESET

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

This function deletes all TV programmes.

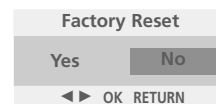
- 1 Press the **MENU** button and then \wedge / \vee button to select the **Option** menu.
- 2 Press the $>$ button and then \wedge / \vee button to select **Factory Reset**.
- 3 Press the $>$ button and then $< / >$ button to select **Yes** or **No**.
- 4 Press the **MENU** button to return to normal TV viewing. Press the **RETURN** button to move to the previous menu screen.



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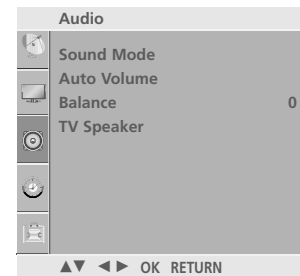


SOUND & LANGUAGE CONTROL

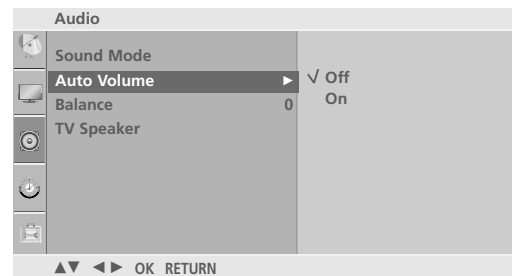
AUTO VOLUME LEVELER

Auto Volume automatically remains on the same level of volume if you change programmes.

- 1 Press the **MENU** button and then \wedge/\vee button to select the **Audio** menu.
- 2 Press the \triangleright button and then \wedge/\vee button to select **Auto Volume**.
- 3 Press the \triangleright button and then \wedge/\vee button to select **On** or **Off**.
- 4 Press the **MENU** button to return to normal TV viewing. Press the **RETURN** button to move to the previous menu screen.



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SOUND & LANGUAGE CONTROL

PRESET SOUND SETTINGS-SOUND MODE

You can select your preferred sound setting; SRS TSXT, Clear Voice, Standard, Music, Cinema, Sport or Game and you can also adjust the frequency of the equalizer.

Sound Mode lets you enjoy the best sound without any Special adjustment as the TV sets the appropriate sound options based on the programme content.

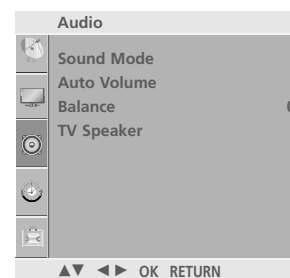
SRS TSXT, Clear Voice, Standard, Music, Cinema, Sport and Game are preset for optimum sound quality at the factory and are not adjustable.

1 Press the **MENU** button and then \wedge/\vee button to select the **Audio** menu.

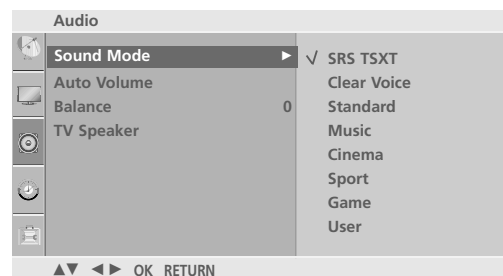
2 Press the $\>$ button and then \wedge/\vee button to select **Sound Mode**.

3 Press the $\>$ button and then \wedge/\vee button to select **SRS TSXT, Clear Voice, Standard, Music, Cinema, Sport, Game or User**.

4 Press the **MENU** button to return to normal TV viewing. Press the **RETURN** button to move to the previous menu screen.



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SOUND SETTING ADJUSTMENT -USER MODE

Adjusting the audio equalizer.

1 Press the **MENU** button and then \wedge / \vee button to select the **Audio** menu.

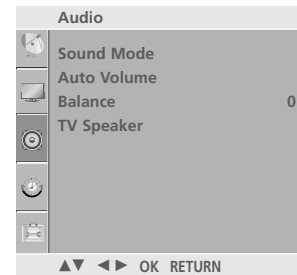
2 Press the \triangleright button and then \wedge / \vee button to select **Sound Mode**.

3 Press the \triangleright button and then \wedge / \vee button to select **User**.

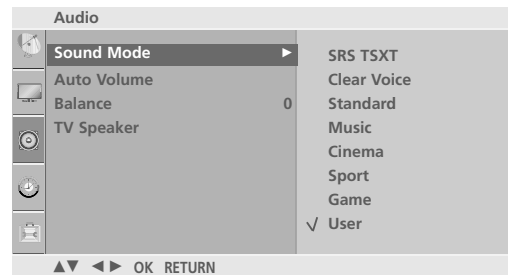
4 Press the \triangleright button.

5 Select a frequency band by pressing the $\triangleleft / \triangleright$ button. Set the desired sound level with the \wedge / \vee button.

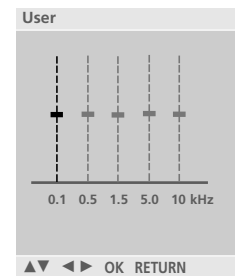
6 Press the **MENU** button to return to normal TV viewing. Press the **RETURN** button to move to the previous menu screen.



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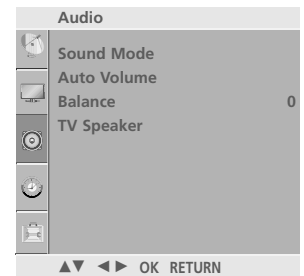
5

SOUND & LANGUAGE CONTROL

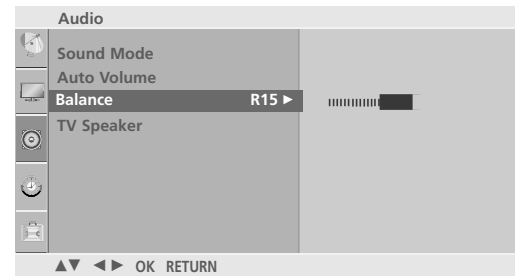
BALANCE

You can adjust the sound balance of the speakers to the preferred levels.

- 1 Press the **MENU** button and then \wedge / \vee button to select the **Audio** menu.
- 2 Press the \triangleright button and then \wedge / \vee button to select **Balance**.
- 3 Press the \triangleright button and then $\triangleleft / \triangleright$ button to make desired adjustment.
- 4 Press the **MENU** button to return to normal TV viewing. Press the **RETURN** button to move to the previous menu screen.



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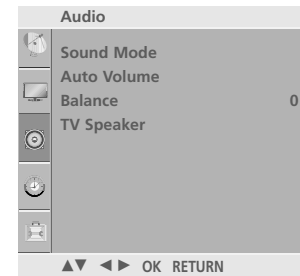
TV SPEAKERS ON/OFF SETUP

You can adjust the internal speaker status.

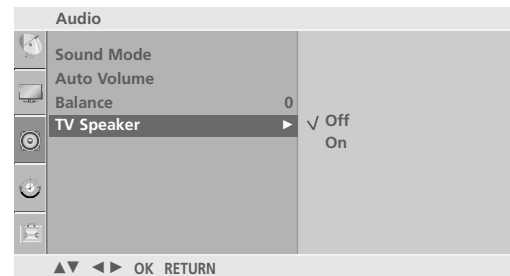
In TV, AV, COMPONENT, RGB[PC] and HDMI mode, internal speaker audio can be operational even though there is no video signal.

If you wish to use an external hi-fi system, turn off the TV internal speakers.

- 1 Press the **MENU** button and then \wedge/\vee button to select the **Audio** menu.
- 2 Press the $\>$ button and then \wedge/\vee button to select **TV Speaker**.
- 3 Press the $\>$ button and then \wedge/\vee button to select **On** or **Off**.
- 4 Press the **MENU** button to return to normal TV viewing. Press the **RETURN** button to move to the previous menu screen.



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SOUND & LANGUAGE CONTROL

I/II

Stereo/Dual Reception

When a programme is selected, the sound information for the station appears with the programme number and station name.

1 Press the **Q.MENU** button and then \wedge / \vee button to select the **Multi Audio** menu.

2 Press the $< / >$ button to select the sound output.

Broadcast	On Screen Display
Mono	MONO
Stereo	STEREO
Dual	DUAL I, DUAL II, DUAL I+II

■ Mono sound selection

If the stereo signal is weak in stereo reception, you can switch to mono. In mono reception, the clarity of sound is improved. To switch back to stereo.

■ Language selection for dual language broadcast

If a programme can be received in two languages (dual language), you can switch to DUAL I, DUAL II or DUAL I+II.

DUAL I Sends the primary broadcast language to the loudspeakers.

DUAL II Sends the secondary broadcast language to the loudspeakers.

DUAL I+II Sends a separate language to each loudspeaker.

NICAM Reception

If the TV is equipped with a receiver for NICAM reception, high quality NICAM (Near Instantaneous Companding Audio Multiplex) digital sound can be received.

Sound output can be selected according to the type of broadcast received.

-
- 1 When **NICAM mono** is received, you can select **NICAM MONO** or **FM MONO**.
 - 2 When **NICAM stereo** is received, you can select **NICAM STEREO** or **FM MONO**.
If the stereo signal is weak, switch to **FM MONO**.
 - 3 When **NICAM dual** is received, you can select **NICAM DUAL I**, **NICAM DUAL II** or **NICAM DUAL I+II** or **FM MONO**.
-

Speaker Sound Output Selection

In AV, Component, RGB and HDMI mode, you can select output sound for the left and right loudspeakers.

Select the sound output.

L+R: Audio signal from audio L input is sent to the left loudspeaker and audio signal from audio R input is sent to the right loudspeaker.

L+L: Audio signal from audio L input is sent to left and right loudspeakers.

R+R: Audio signal from audio R input is sent to left and right loudspeakers.

SOUND & LANGUAGE CONTROL

ON-SCREEN MENU LANGUAGE / COUNTRY SELECTION

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

-
- 1 Press the $\wedge/\vee/\lt;/\gt$ button and then, **OK** button to select your desired language.
 - 2 Press the $\wedge/\vee/\lt;/\gt$ button and then, **OK** button to select your country.
-

* If you want to change Language/ Country selection

- 1 Press the **MENU** button and then use \wedge/\vee button to select the **OPTION** menu.
 - 2 Press the \gt button and then use \wedge/\vee button to select **Language**.
Or, Press the \gt button and then use \wedge/\vee button to select **Country**.
 - 3 Press the \gt button and then use $\wedge/\vee/\lt;/\gt$ button to select your desired language or country. The menus can be shown on the screen in the selected language.
 - 4 Press the **OK** button.
 - 5 Press the **MENU** button to return to normal TV viewing.
Press the **RETURN** button to move to the previous menu screen.
-

! NOTE

- ▶ If you don't finish set up **Installation Guide** by pressing **RETURN** button or time out of OSD (On Screen Display) display, it will continuously appear until completing set up whenever the set is turned on.
- ▶ If you select wrong local country, the teletext may not appear correctly on the screen and some problem may happen during teletext operation.

TIME SETTING

CLOCK SETUP

You must set the time correctly before using on/off timer function.

If current time setting is erased by a power failure or the TV is unplugged, reset the clock.

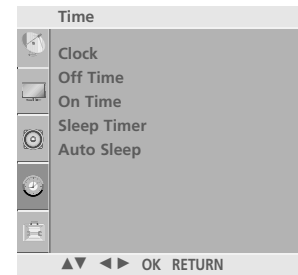
1 Press the **MENU** button and then \wedge/\vee button to select the **Time** menu.

2 Press the \triangleright button and then \wedge/\vee button to select **Clock**.

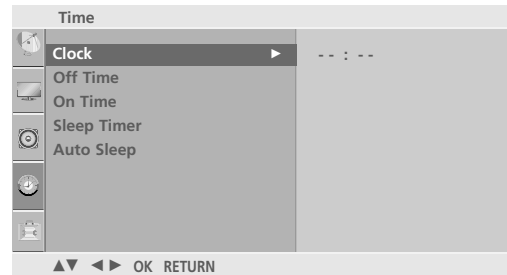
3 Press the \triangleright button and then \wedge/\vee button to set the hour.

4 Press the \triangleright button and then \wedge/\vee button to set the minute.

5 Press the **MENU** button to return to normal TV viewing. Press the **RETURN** button to move to the previous menu screen.



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TIME SETTING

AUTO ON/OFF TIMER SETTING

The Off time function automatically switches the TV to standby at a preset time.

Two hours after the TV is switched on by the on time function it will automatically switch back to standby mode unless a button has been pressed.

Once the on time/off time is set, these functions operate daily at the preset time.

The Off time function overrides the On timer function if both are set to the same time.

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

1 Press the **MENU** button and then \wedge/\vee button to select the **Time** menu.

2 Press the \triangleright button and then \wedge/\vee button to select **On/Off Time**.

- To cancel **On/Off Time** function, select **Off**.

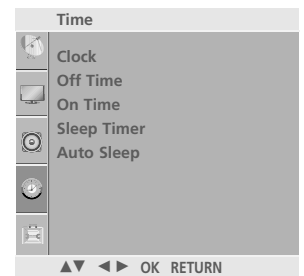
3 Press the \triangleright button and then \wedge/\vee button to set the hour.

4 Press the \triangleright button and then \wedge/\vee button to set the minutes.

5 **For On Time function only**

- **Programme:** Press the \triangleright button and then \wedge/\vee button to select the programme.
- **Volume:** Press the \triangleright button and then \wedge/\vee button to adjust volume level at switch-on.

6 Press the **MENU** button to return to normal TV viewing. Press the **RETURN** button to move to the previous menu screen.



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SLEEP TIMER SETTING

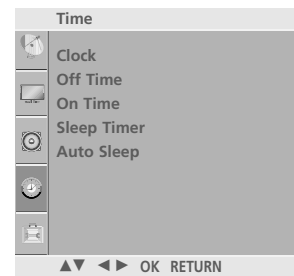
You do not have to remember to switch the TV off before you go to sleep. The sleep timer automatically switches the TV to standby after the preset time has elapsed.

1 Press the **MENU** button and then \wedge/\vee button to select the **Time** menu.

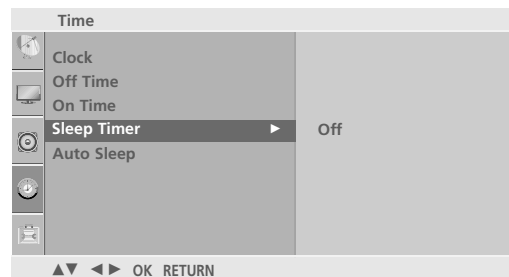
2 Press the \triangleright button and then \wedge/\vee button to select **Sleep Timer**.

3 Press the \triangleright button and then \wedge/\vee button to set the minute.

4 Press the **MENU** button to return to normal TV viewing. Press the **RETURN** button to move to the previous menu screen.



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! NOTE

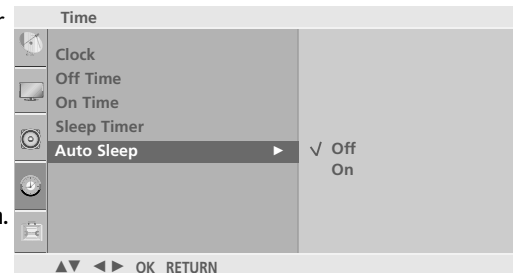
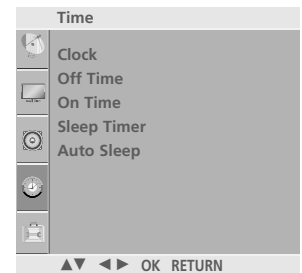
- ▶ When you switch the TV off, the TV releases the preset sleep time.

TIME SETTING

AUTO SHUT-OFF SETTING

If the TV set is switched on and there is no input signal, it will switch off automatically after 10 minutes.

- 1 Press the **MENU** button and then \wedge/\vee button to select the **Time** menu.
- 2 Press the $\>$ button and then \wedge/\vee button to select **Auto Sleep**.
- 3 Press the $\>$ button and then \wedge/\vee button to select **On** or **Off**.
- 4 Press the **MENU** button to return to normal TV viewing.
Press the **RETURN** button to move to the previous menu screen.



TELETEXT

This feature is not available in all countries.

Teletext is a free service broadcast by most TV stations which gives up-to-the-minute information on news, weather, television programmes, share prices and many other topics.

The teletext decoder of this TV can support the SIMPLE, TOP and FASTEXT systems. SIMPLE (standard teletext) consists of a number of pages which are selected by directly entering the corresponding page number. TOP and FASTEXT are more modern methods allowing quick and easy selection of teletext information.

SWITCH ON/OFF

Press the **TEXT** button to switch to teletext. The initial page or last page viewed appears on the screen.

Two page numbers, TV station name, date and time are displayed on the screen headline. The first page number indicates your selection, while the second shows the current page displayed.

Press the **TEXT** or **RETURN** button to switch off teletext. The previous mode reappears.

SIMPLE TEXT

■ Page selection

- 1 Enter the desired page number as a three digit number with the NUMBER buttons. If during selection you press a wrong number, you must complete the three digit number and then re-enter the correct page number.
- 2 The **P** \wedge / \vee (or **P** +/- or **PR** +/-) button can be used to select the preceding or following page.

TELETEXT

TOP TEXT

The user guide displays four fields-red, green, yellow and blue at the bottom of the screen. The yellow field denotes the next group and the blue field indicates the next block.

■ Block / group / page selection

- ① With the blue button you can progress from block to block.
- ② Use the yellow button to proceed to the next group with automatic overflow to the next block.
- ③ With the green button you can proceed to the next existing page with automatic overflow to the next group. Alternatively the **P ^** (or **P +** or **PR +**) button can be used.
- ④ The red button return to the previous selection. Alternatively the **P v** (or **P -** or **PR -**) button can be used.


■ Direct page selection

As with SIMPLE teletext mode, you can select a page by entering it as a three digit number using the NUMBER buttons in TOP mode.

FASTEXT

The teletext pages are colour coded along the bottom of the screen and are selected by pressing the corresponding coloured button.

■ Page selection

- ① Press the  button to select the index page.
- ② You can select the pages which are colour coded along the bottom line with corresponding coloured buttons.
- ③ As with SIMPLE teletext mode, you can select a page by entering its three digit page number with the NUMBER buttons in FASTEXT mode.
- ④ The **P ^ / v** (or **P +/-** or **PR +/-**) button can be used to select the preceding or following page.

SPECIAL TELETEXT FUNCTIONS



■ TIME

When viewing a TV programme, press this button to display the time at the top right hand corner of the screen. Press this button again to remove the display. In the teletext mode, press this button to select a sub page number. The sub page number is displayed at the bottom of the screen. To hold or change the sub page, press the RED/GREEN, P \wedge / \vee (or P +/- or PR +/-) or NUMBER buttons.

Press again to exit this function.



■ SIZE

Selects double height text.

Press this button to enlarge the top half of the page.

Press this button again to enlarge the bottom half of the page.

Press this button again to return to the normal display.



■ UPDATE

Displays the TV picture on the screen while waiting for a new teletext page. The display will appear at the top left hand corner of the screen. When the updated page is available then display will change to the page number. Press this button again to view the updated teletext page.



■ REVEAL

Press this button to display concealed information, such as solutions to riddles or puzzles.

Press this button again to remove the information from the display.



■ INDEX

Select the each index page.



■ HOLD

Stops the automatic page change which will occur if a teletext page consists of 2 or more sub pages. The number of sub pages and the sub page displayed is, usually, shown on the screen below the time. When this button is pressed the stop symbol is displayed at the top left-hand corner of the screen and the automatic page change is inactive. To continue press this button again.

APPENDIX

TROUBLESHOOTING

The TV does not operate properly

The remote control does not work

- Check to see if there is any object between the TV and the remote control causing an obstruction.
- Are batteries installed with correct polarity (+ to +, - to -)?
- Install new batteries.

Power is suddenly turned off

- Is the sleep time set?
- Check the power control settings. Has the Power supply been interrupted.
- Is Auto sleep activated on this station.

The video function does not work.

No picture & No sound

- Check whether the TV is switched on.
- Try another channel. The problem may be with the broadcast.
- Is the power cord inserted correctly into the mains?
- Check your antenna direction and/or location.
- Test the mains outlet by plugging another TV into the same outlet.

Picture appears slowly after switching on

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

No or poor colour or poor picture

- Adjust Colour in menu option.
- Allow a sufficient distance between the TV 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 channel experiencing problems, tune to another station.
- Station signal is weak, reposition the antenna to receive weaker stations.
- Check for sources of possible interference.


Lines or streaks in pictures

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

No picture when connecting HDMI

- Check HDMI cable over version 1.3.
If the HDMI cables don't support HDMI version 1.3, it can cause flickers or no screen display. In this case use the latest cables that support HDMI version 1.3.

The audio function does not work.

<p>Picture OK & No sound</p>	<ul style="list-style-type: none"> ■ Press the  +/- (or Volume) button. ■ Sound muted? Press MUTE button. ■ Try another channel. The problem may be with the broadcast. ■ Are the audio cables installed properly?
<p>No output from one of the speakers</p>	<ul style="list-style-type: none"> ■ Adjust Balance in menu option.
<p>Unusual sound from inside the TV</p>	<ul style="list-style-type: none"> ■ A change in ambient humidity or temperature may result in an unusual noise when the TV is switched on or off and does not indicate a fault with the TV.
<p>No sound when connecting HDMI or USB</p>	<ul style="list-style-type: none"> ■ Check HDMI cable over version 1.3. ■ Check USB cable over version 2.0. <p style="text-align: right; font-size: small;">*This feature is not available for all models.</p>

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

<p>The signal is out of range.</p>	<ul style="list-style-type: none"> ■ Adjust resolution, horizontal frequency, or vertical frequency. ■ Check the input source.
<p>Vertical bar or stripe on background & Horizontal Noise & Incorrect position</p>	<ul style="list-style-type: none"> ■ Use Auto configure or adjust clock, phase, or H/V position.
<p>Screen colour is unstable or single colour</p>	<ul style="list-style-type: none"> ■ Check the signal cable. ■ Reinstall the PC video card.

There is a problem in PICTURE settings.

<p>When the user changes the picture settings, the TV automatically converts back to the initial settings after a certain period of time.</p>	<ul style="list-style-type: none"> ■ It means that the TV is currently set to In Store mode. To switch to Home mode you should do the followings: From the TV Menu, choose Option -> Factory Reset -> Yes (wait for a few seconds for the TV to download again) -> Choose Language -> Choose Country -> Choose Home -> Press OK button -> OSD "WELCOME" appears -> Press OK button. Program search will begin automatically (You can stop the search by pressing the RETURN button). Now you have completed switching to the Home mode.
--	--

APPENDIX

MAINTENANCE

Early malfunctions can be prevented. Careful and regular cleaning can prolong the life of your new TV.
Caution: Be sure to switch the power off and unplug the power cord before you begin any cleaning.

Cleaning the Screen

- 1 A good way to keep the dust off your screen for a while is to 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 Ensure there is no excess water on the screen. Allow any water or dampness to evaporate before switching on.

Cleaning the Cabinet

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

Extended Absence

CAUTION

- ▶ If you expect to leave your TV dormant for prolonged periods (such as a holiday), unplug the power cord to protect against possible damage from lightning or power surges.

PRODUCT SPECIFICATIONS

MODELS		42PG1***	42PG2***
		42PG100R-ZA	42PG200R-ZA
Dimensions (Width x Height x Depth)	with stand	1040 x 729 x 308 mm 40.9x 28.7 x 12.1 inches	1040 x 731.3 x 308 mm 40.9x 28.7 x 12.1 inches
	without stand	1040 x 677 x 83.6 mm 40.9x 26.6 x 3.3 inches	1040 x 677 x 86 mm 40.9 x 26.6x 3.4 inches
Weight	with stand	26 kg / 57.3 lbs	27.3 kg / 60.1 lbs
	without stand	24 kg / 52.9 lbs	24.4 kg / 53.8 lbs
Power requirement		AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz
Power Consumption		310W	310W
MODELS		50PG1***	50PG2***
		50PG100R-ZA	50PG200R-ZA
Dimensions (Width x Height x Depth)	with stand	1224.7 x 849 x 364 mm 48.2 x 33.4x 14.3inches	1224.7 x 849 x 364 mm 48.2 x 33.4x 14.3inches
	without stand	1224.7 x 790 x 83.6 mm 48.2x 31.1 x 3.2 inches	1224.7 x 790 x 86 mm 48.2x 31.1 x 3.4 inches
Weight	with stand	41.5 kg / 91.5 lbs	41.8 kg / 92.2 lbs
	without stand	38.1kg / 84lbs	37.8kg / 83.3lbs
Power requirement		AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz
Power Consumption		420W	420W
MODELS		32PC5*	
		32PC53-ZB 32PC54-ZD	
Dimensions (Width x Height x Depth)	with stand	819.9 x 599.8x 258.4 mm 32.3 x 23.6 x 10.2 inches	
	without stand	819.9 x 554.2 x 78.1 mm 32.3 x 21.8 x 3.1 inches	
Weight	with stand	16.2kg / 35.7 lbs	
	without stand	15.1kg / 33.2 lbs	
Power requirement		AC100-240V~ 50/60Hz	
Power Consumption		200W	
Television System		PAL/SECAM B/G/D/K, PAL I/II	
Program Coverage		VHF: NZ1 ~E21, UHF: E21 ~ E69, CATV: S1 ~ S20, HYPER: S21 ~ S47	
External Antenna Impedance		75 Ω	
Environment condition	Operating Temperature	0 ~ 40°C / 32 ~ 104°F	
	Operating Humidity	Less than 80%	
	Storage Temperature	-20 ~ 60°C / -4 ~ 140°F	
	Storage Humidity	Less than 85%	

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

APPENDIX

IR CODES

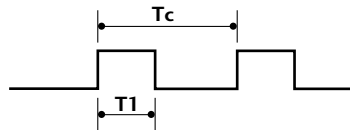
1. How to Connect

- 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



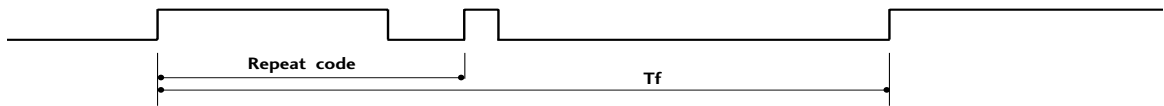
Carrier frequency
 $FCAR = 1/Tc = fOSC/12$
 Duty ratio = $T1/Tc = 1/3$

■ Configuration of frame

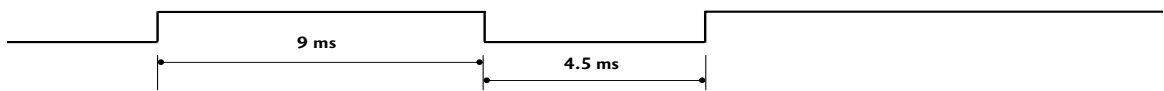
1st frame



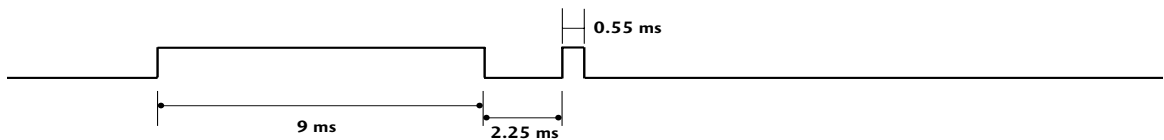
Repeat frame



■ Lead code



■ Repeat code

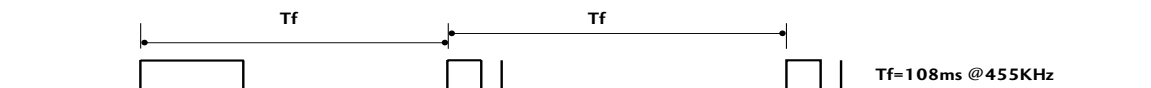


■ Bit description



■ Frame interval: Tf

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



Code (Hexa)	Function	Note	Code (Hexa)	Function	Note
79	RATIO	R/C Button	01	P ∨ (or P - or PR-)	R/C Button
0B	INPUT	R/C Button	30	AV MODE	R/C Button
08	POWER	R/C Button (Power On/Off)	09	MUTE	R/C Button
43	MENU	R/C Button	53	LIST	R/C Button
5B	RETURN	R/C Button	10 ~ 19	Number Key 0 ~ 9	R/C Button
07	< (or ◀)	R/C Button	1E	FAV	R/C Button
06	> (or ▶)	R/C Button	1A	Q.VIEW	R/C Button
40	^ (or ▲)	R/C Button	20	TEXT	R/C Button
41	∨ (or ▼)	R/C Button	7E	SIMPLINK	R/C Button
44	OK(⊙)	R/C Button	B1	■ Stop/TIME	R/C Button
72	RED	R/C Button	B0	▶ Play/SIZE	R/C Button
71	GREEN	R/C Button	BA	Pause	
63	YELLOW	R/C Button		UPDATE	R/C Button
61	BLUE	R/C Button	8F	◀◀ Rew/INDEX	R/C Button
02	▲ (or VOL+)	R/C Button	8E	▶▶ FF/HOLD	R/C Button
03	▾ (or VOL-)	R/C Button	45	Q.MENU	R/C Button
00	P ^ (or P + or PR+)	R/C Button	BD	●(Record)/REVEAL	R/C Button
52	SOUND	R/C Button	4D	PICTURE	R/C Button

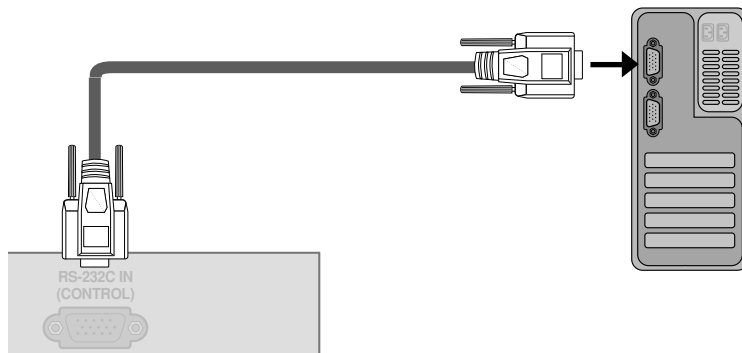
APPENDIX

EXTERNAL CONTROL THROUGH RS-232C

Connect the RS-232C input jack to an external control device (such as a computer or an A/V control system) and control the TV's functions externally.

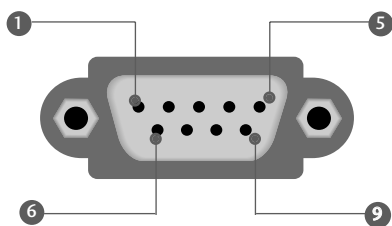
Connect the serial port of the control device to the RS-232C jack on the TV back panel. RS-232C connection cables are not supplied with the TV.

RS-232C Setup



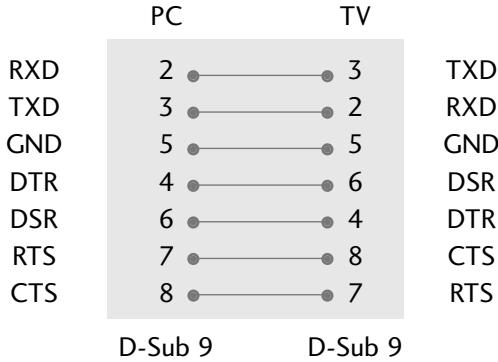
Type of Connector; D-Sub 9-Pin Male

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

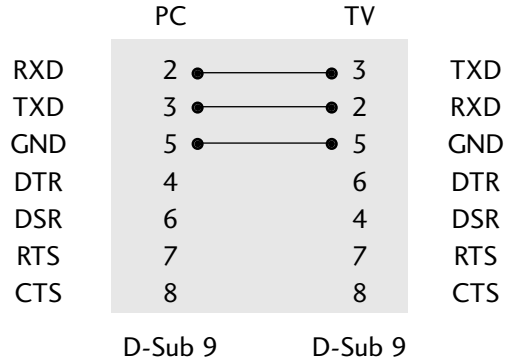


RS-232C Configurations

7-Wire Configurations (Standard RS-232C cable)



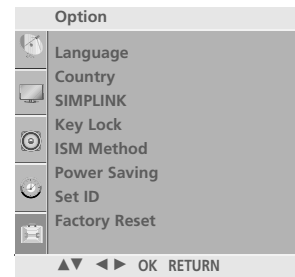
3-Wire Configurations (Not standard)



Set ID

- Use this function to specify a set ID number.
- Refer to 'Real Data Mapping 1'. See page 93.

- 1 Press the **MENU** button and then use \wedge / \vee button to select the **Option** menu.
- 2 Press the \triangleright button and then use \wedge / \vee button to select **Set ID**.
- 3 Press the \triangleright button and then use \langle / \triangleright button to adjust **Set ID** to choose the desired TV ID number.
 - The adjustment range of SET ID is 1 ~ 99.
- 4 Press the **MENU** button to return to normal TV viewing. Press the **RETURN** button to move to the previous menu screen.



1



3 2

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	00 ~ 01	14. Colour Temperature	k	u	00 ~ 03
02. Aspect Ratio	k	c	Refer to p.91	15. Red Adjustment	k	v	00 ~ 3C
03. Screen Mute	k	d	00 ~ 01	16. Green Adjustment	k	w	00 ~ 3C
04. Volume Mute	k	e	00 ~ 01	17. Blue Adjustment	k	\$	00 ~ 3C
05. Volume Control	k	f	00 ~ 64	18. Abnormal Status	k	z	FF
06. Contrast	k	g	00 ~ 64	19. ISM Method	j	p	Refer to p.93
07. Brightness	k	h	00 ~ 64	20. Power Saving	j	q	Refer to p.93
08. Colour	k	i	00 ~ 64	21. Auto Configure	j	u	01
09. Tint	k	j	00 ~ 64	22. Equalize	j	v	Refer to p.93
10. Sharpness	k	k	00 ~ 64	23. Tune Command	m	a	Refer to p.94
11. OSD Select	k	l	00 ~ 01	24. Channel Skip	m	b	00 ~ 01
12. Remote Control Lock /Key Lock Mode	k	m	00 ~ 01	25. Key	m	c	Key Code
13. Balance	k	t	00 ~ 64	26. Input select (Main)	x	b	Refer to p.94

Transmission / Receiving Protocol

Transmission

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

[Command 1] : First command to control the set.(j,k,m or 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 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 comand.

[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]

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

[Command 2] : use as command.

[Set ID]: use the small character, if set ID is 10, TV will send the '0'; 'a'

[Data]: use the small character, if data is 0xab, TV will send the 'a'; 'b'.

[NG]: use the large character.

01. Power (Command: k a)

To control Power On/Off of the TV.

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

Data 00 : Power Off Data 01 : Power On

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

To show Power On/Off.

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

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

* If there is the time delay between command and ack message during power on sequence, It should be described like "Note: In this model, TV will send the Acknowledge after power on processing completion. There might be a time delay between command and acknowledge."

02. Aspect Ratio (Command: k c) (Main picture size)

To adjust the screen format. (Main picture format)

You can adjust the screen format using the Aspect Ratio in the Picture menu.

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

Data 01: Normal screen (4:3) Data 06: Original
Data 02: Wide screen (16:9) Data 07: 14:9
Data 04: Zoom1 Data 09: Just Scan
Data 05: Zoom2

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

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

* Just Scan works in the following mode:
Component (720p/1080i/1080p),
HDMI (720p/1080i/1080p)

03. Screen Mute (Command: k d)

To select screen mute on/off.

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

Data 00 : Screen mute off (Picture on)
Data 01 : Screen mute on (Picture off)

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

04. Volume Mute (Command: k 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 00 : Volume mute on (Volume off)
Data 01 : Volume mute off (Volume on)

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

05. Volume Control (Command: k 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 : 00 ~ Max : 64

Refer to 'Real data mapping 1' : See page 93.

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

06. Contrast (Command: k g)

To adjust screen contrast.

You can also adjust contrast in the Picture menu.

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

Data Min : 00 ~ Max : 64

Refer to 'Real data mapping 1' : See page 93.

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

07. Brightness (Command: k h)

To adjust screen brightness.

You can also adjust brightness in the Picture menu.

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

Data Min : 00 ~ Max : 64

Refer to 'Real data mapping 1' : See page 93.

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

08. Colour (Command: k i)

To adjust the screen colour.

You can also adjust colour in the Picture menu.

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

Data Min : 00 ~ Max : 64

Refer to 'Real data mapping 1' : See page 93.

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

09. Tint (Command: k j)

To adjust the screen tint.

You can also adjust tint in the Picture menu.

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

Data Min : 00 ~ Max : 64

Refer to 'Real data mapping 1' : See page 93.

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

10. Sharpness (Command: k k)

To adjust the screen sharpness.

You can also adjust sharpness in the Picture menu.

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

Data Min : 00 ~ Max : 64

Refer to 'Real data mapping 1'. See page 93.

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

11. OSD Select (Command: k l)

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

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

Data 00: OSD off

Data 01: OSD on

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

12. Remote Control Lock/Key Lock Mode (Command: k m)

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

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

Data 00: Lock off

Data 01: Lock on

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

13. Balance (Command: k t)

To adjust balance.

You can also adjust balance in the Audio menu.

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

Data Min : 00 ~ Max : 64

Refer to 'Real data mapping 1'. See page 93.

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

14. Colour Temperature (Command: k u)

To adjust colour temperature.

You can also adjust Colour Temperature in the Picture menu.

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

Data 00: Medium 01: Cool 02: Warm 03: User

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

15. Red Adjustment (Command: k v)

To adjust red in colour temperature.

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

Data Min: 00 ~ Max: 3C

Refer to 'Real data mapping 2'. See page 93.

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

16. Green Adjustment (Command: k w)

To adjust green in colour temperature.

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

Data Min: 00 ~ Max: 3C

Refer to 'Real data mapping 2'. See page 93.

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

17. Blue Adjustment (Command: k \$)

To adjust blue in colour temperature.

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

Data Min: 00 ~ Max: 3C

Refer to 'Real data mapping 2'. See page 93.

Acknowledgement [\$][][Set ID][][OK/NG][Data][x]

18. Abnormal State (Command: k z)

To recognize an abnormal state.

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

Data FF: Read

```
Acknowledgement [z][ ][Set ID][ ][OK/NG][Data][x]
```

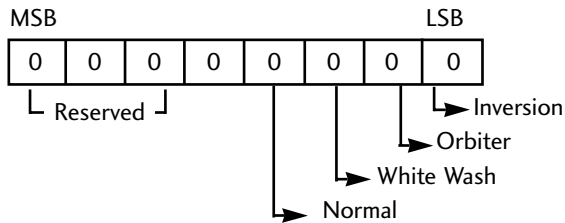
- Data 00: Normal (Power on and signal exist)
- Data 01: No signal (Power on)
- Data 02: Turn the TV off by remote control
- Data 03: Turn the TV off by sleep time function
- Data 04: Turn the TV off by RS-232C function
- Data 05: 5V down
- Data 06: AC down
- Data 07: Turn the TV off by Fan Alarm function (option)
- Data 08: Turn the TV off by Off time function
- Data 09: Turn the TV off by Auto off function
- Data a: Turn the TV off by AV board detection.

* This function is "read only".

19. ISM Method (Command: j p)

To avoid having a fixed image remain on screen.

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



7	6	5	4	3	2	1	0	Function
				0	0	0	1	Inversion
				0	0	1	0	Orbiter
				0	1	0	0	White wash
				1	0	0	0	Normal
x	x	x	x					Reserved

*More two kinds of function can not be set at a time.

```
Acknowledgement [p][ ][Set ID][ ][OK/NG][Data][x]
```

20. Low Power(Power Saving) (Command: j q)

To control the low power function on/off.

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

Data Min: 00 ~ Max: 04

Data Min: 00 ~ Max: 01 (only 32PC5***)

(*transmit by Hexadecimal code)

```
Acknowledgement [q][ ][Set ID][ ][OK/NG][Data][x]
```

21. Auto Configure (Command: j u)

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

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

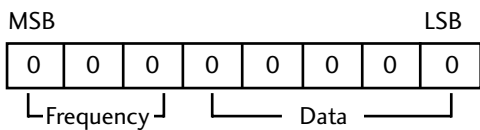
Data 01: To set

```
Acknowledgement [u][ ][Set ID][ ][OK/NG][Data][x]
```

22. Equalize(Command: j v)

► To adjust equalize.

```
Transmission [j][v][ ][Set ID][ ][Data][Cr]
```



7	6	5	Frequency	4	3	2	1	0	Step
0	0	0	1'st Band	0	0	0	0	0	0(decimal)
0	0	1	2'nd Band	0	0	0	0	1	1(decimal)
0	1	0	3'rd Band	0	0	0	1	0	2(decimal)
0	1	1	4'th Band						...
1	0	0	5'th Band						
1	0	1	6'th Band						
1	1	0	7'th Band	1	1	1	1	0	30(decimal)
1	1	1	8'th Band	1	1	1	1	1	31(decimal)

```
Acknowledgement [v][ ][Set ID][ ][OK/NG][Data][x]
```

*** Real data mapping 1**

- 00 : Step 0
- ⋮
- A : Step 10
- ⋮
- F : Step 15
- 10 : Step 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**

- 00: -30
- 01: -29
- 02: -28
- ⋮
- 1E: 0
- ⋮
- 28: +10
- ⋮
- 3A: +28
- 3B: +29
- 3C: +30
- ⋮
- 4E: N/A
- 4F: N/A
- 50: N/A

APPENDIX

23 . Tune Command / Channel Tuning (Command: m a)

Tune Channel to following Physical number.

```
Transmission [m][a][ ][Set ID][ ][Data0][ ][Data1]
           [ ][Data2][Cr]
```

Data00 Min: 00 ~ Max: 63

(*transmit by Hexadecimal code)

Data01 don't care

Data02 0 ; Main

1 : Sub

```
Acknowledgement [a][ ][Set ID][OK][ ][Data0][Data1][x]
                [a][ ][Set ID][NG][ ][Data0][x]
```

24. Channel Skip(Command: m b)

► To set skip status for the current Programme.

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

Data 00 : Skip 01 : Add

```
Acknowledgement [b][ ][Set ID][ ][OK/NG][Data][x]
```

25. Key Code (Command: m c)

To send IR remote key code.

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

Data: Key code - Refer to page 87.

```
Acknowledgement [c][ ][Set ID][ ][OK/NG][Data][x]
```

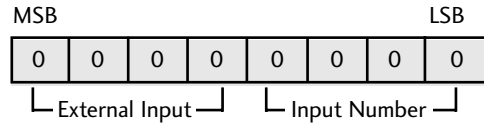
26. Input select (Command: x b)

(Main Picture Input)

To select input source for TV

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

Data: Structure



External Input				Data
0	0	0	1	Analog
0	0	1	0	AV
0	1	0	0	Component
0	1	1	0	RGB-PC
1	0	0	1	HDMI

Input Number				Data
0	0	0	0	Input1
0	0	0	1	Input2
0	0	1	0	Input3
0	0	1	1	Input4

```
Acknowledgement [b][ ][Set ID][ ][OK/NG][Data][x]
```


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