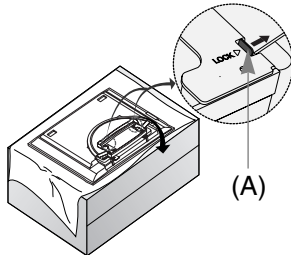


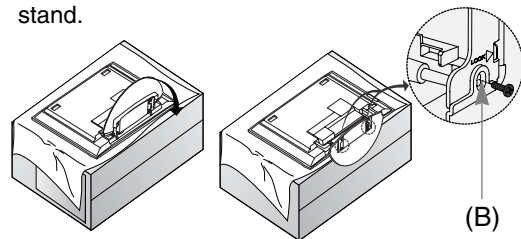
Basic Connection

How to use stand (For 42PC3DU/3DVU)

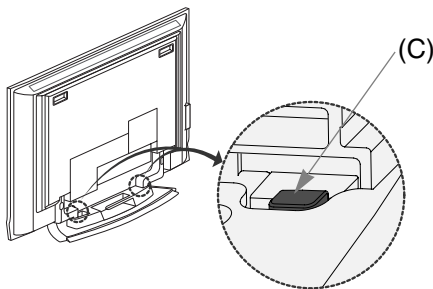
- 1** Place the set with the screen facing down on a cushion or soft cloth as shown. Before unfolding the stand, please make sure two locks (A) on the bottom of the stand push outward.



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



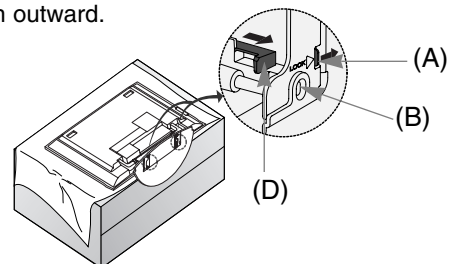
- 3** When connecting cables to the set, Do not disengage the lock (C). This may cause the set to fall, causing serious bodily injury and serious damage to the set.



* Image shown here may be slightly different from your set.

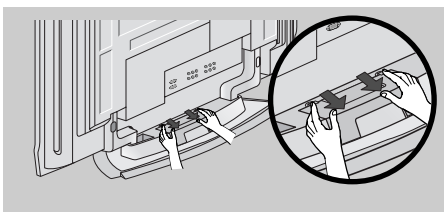
When closing the stand for storage

- First remove the screws in the holes (B) on the bottom of the stand. And then pull two Hooks (D) of the stand bottom and fold the stand into the back of the set.
- After folding, push the two Locks (A) of the stand bottom outward.

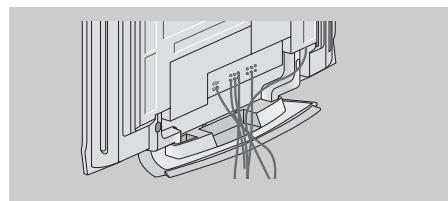


How to arrange the cable (For 50PC3DU)

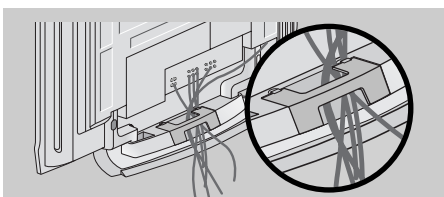
- 1** Hold the **CABLE MANAGEMENT** with both hands and push it as shown.



- 2** Connect the cables as necessary. To connect an additional equipment, see the **External equipment Connections** section.

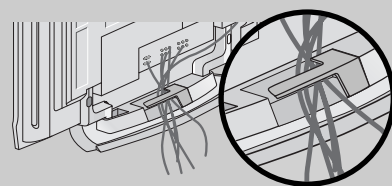


- 3** Reinstall the **CABLE MANAGEMENT** as shown.



For 60PC1D, 42PC3DU/3DVU

Arrange the cable as shown.



External Equipment Connections

NOTE: All cables shown are not included with the TV

Antenna Or Cable Connection

Analog and Digital TV signals provided on antenna

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



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



Wall Antenna Socket

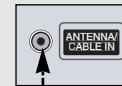
RF Coaxial Wire (75 ohm)

VHF Antenna
UHF Antenna

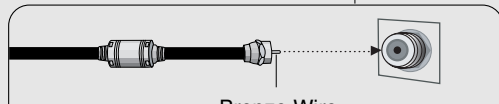


Outdoor Antenna

Turn clockwise to tighten.



ANTENNA/
CABLE IN



Bronze Wire

Be careful not to bend the bronze wire when connecting the antenna.



Single-family Dwellings /Houses
(Connect to wall jack for outdoor antenna)

Analog and Digital TV signals provided on cable

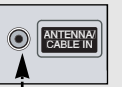


Cable TV Wall Jack



RF Coaxial Wire (75 ohm)

Turn clockwise to tighten.

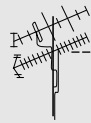


ANTENNA/
CABLE IN

Analog and DTV signals provided on two separate antennas



Antenna



RF Coaxial Wire (75 ohm)

Bronze Wire

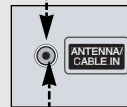
Turn clockwise to tighten.

Cable TV Wall Jack

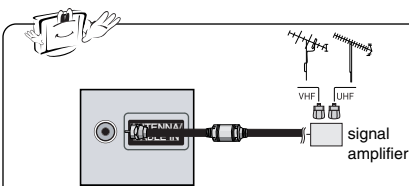


RF Coaxial Wire (75 ohm)

Bronze Wire



ANTENNA/
CABLE IN

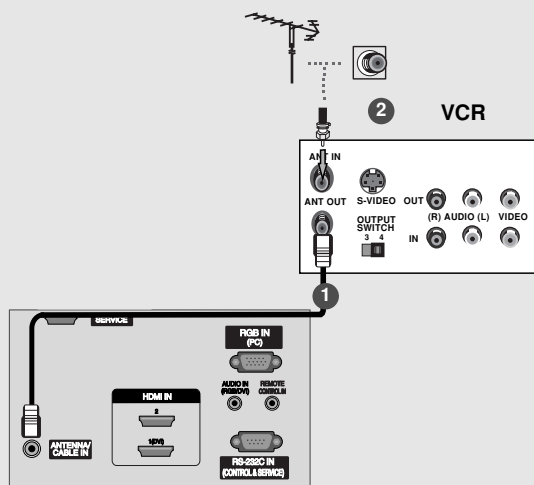


- In a poor signal area to improve picture quality, purchase and install a signal amplifier.
- If the antenna needs to be split for two TV's, install a "2-Way Signal Splitter" in the connections.
- If the antenna is not installed properly, contact your dealer for assistance.

VCR Setup

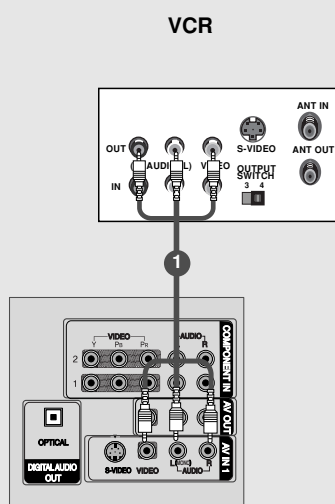
- To avoid picture noise (interference), leave an adequate distance between the VCR and TV.
- Typically a frozen still picture from a VCR. If the 4:3 picture format is used; the fixed images on the sides of the screen may remain visible on the screen.

When connecting with an antenna



- 1 Connect the RF antenna out socket of the VCR to the **Antenna** socket on the set.
- 2 Connect the antenna cable to the RF antenna in socket of the VCR.
- 3 Set VCR output switch to 3 or 4 and then tune TV to the same channel number.
- 4 Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)

When connecting with a RCA cable

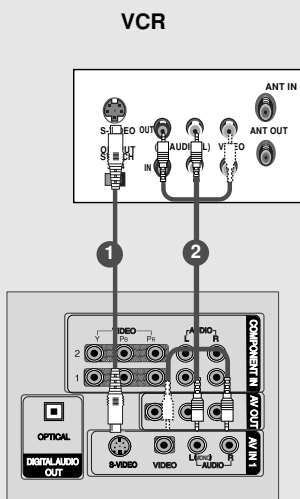


- 1 Connect the **AUDIO/VIDEO** jacks between TV and VCR. Match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red)
- 2 Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
- 3 Select **AV1** input source using the **INPUT** button on the remote control.
 - If connected to **AV IN2**, select **AV2** input source.




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

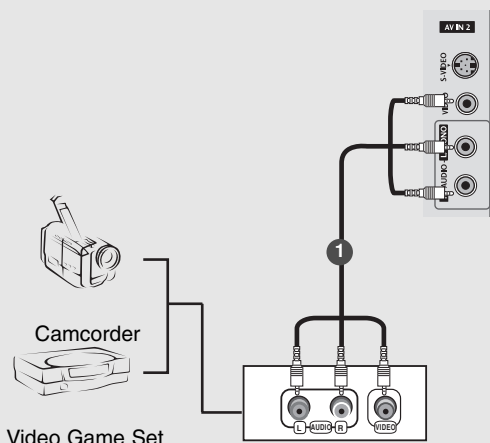
When connecting with an S-Video cable




- 1 Connect the S-VIDEO output of the VCR to the **S-VIDEO** input on the set. The picture quality is improved; compared to normal composite (RCA cable) input.
- 2 Connect the audio outputs of the VCR to the **AUDIO** input jacks on the set.
- 3 Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
- 4 Select **AV1** input source with using the **INPUT** button on the remote control.
- If connected to **AV IN2**, select **AV2** input source.

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

External AV Source Setup

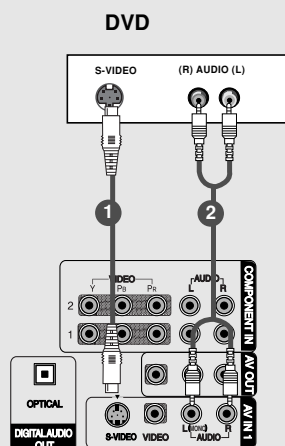


- 1 Connect the **AUDIO/VIDEO** jacks between TV and external equipment. Match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).
- 2 Select **AV2** input source with using the **INPUT** button on the remote control.
- If connected to **AV IN1** input, select **AV1** input source.
- 3 Operate the corresponding external equipment. Refer to external equipment operating guide.

 This TV finds the connected input sources automatically for AV1, AV2, Component 1-2, RGB, HDMI1/DVI and HDMI2 sources are connected.

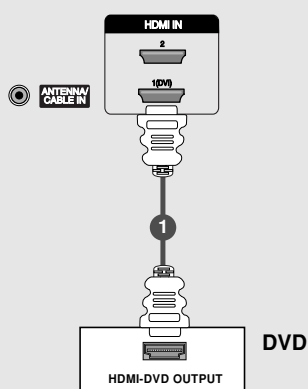
DVD Setup

When connecting with a S-Video cable



- 1 Connect the S-VIDEO output of the DVD to the **S-VIDEO** input on the set.
- 2 Connect the audio outputs of the DVD to the **AUDIO** input jacks on the set.
- 3 Turn on the DVD player, insert a DVD.
- 4 Select **AV1** input source with using the **INPUT** button on the remote control.
- If connected to **AV IN2**, select **AV 2** input source.
- 5 Refer to the DVD player's manual for operating instructions.

When connecting with a HDMI cable

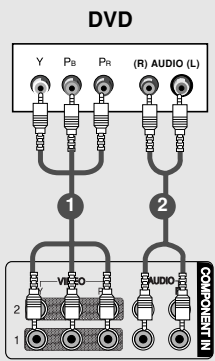


- 1 Connect the HDMI output of the DVD to the **HDMI IN 1(DVI)** or **2** jack on the set.
- 2 Select **HDMI1/DVI** or **HDMI2** input source with using the **INPUT** button on the remote control.
- 3 Refer to the DVD player's manual for operating instructions.



- TV can receive the video and audio signal simultaneously with using a HDMI cable.
- If the DVD supports Auto HDMI function, the DVD output resolution will be automatically set to 1280x720p.
- If the DVD does not support Auto HDMI, you need to set the output resolution appropriately. To get the best picture quality, adjust the output resolution of the DVD to 1280x720p.

When connecting with a component cable



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



• Component Input ports

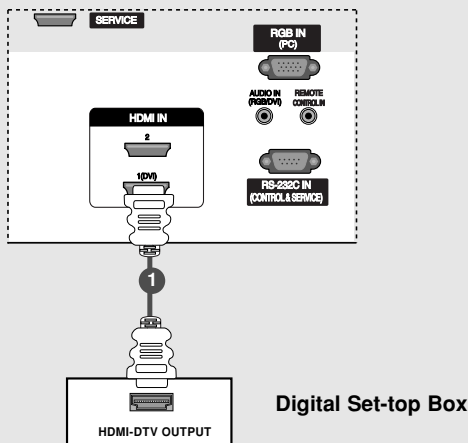
To get better picture quality, connect a DVD player to the component input ports as shown below.

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

HDSTB Setup

- This TV can receive Digital Over-the-air/Cable signals without an external digital set-top box. However, if you do receive Digital signals from a digital set-top box or other digital external device, refer to the figure as shown below.

When connecting with a HDMI cable

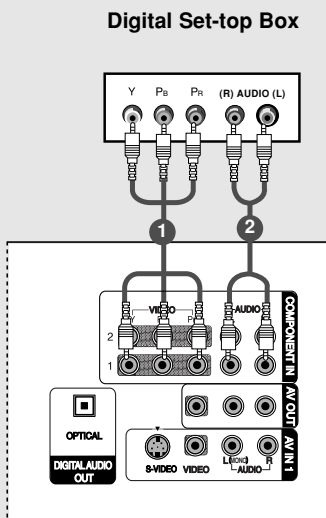


- 1 Connect the HDMI output of the digital set-top box to the **HDMI IN 1(DVI)** or **2** jack on the set.
- 2 Select **HDMI1/DVI** or **HDMI2** input source with using the **INPUT** button on the remote control.
- 3 Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)



- TV can receive the video and audio signal simultaneously using a HDMI cable.
- If the digital set-top box supports Auto HDMI function, output resolution of the digital set-top box will be automatically set to 1280x720p.
- If the digital set-top box does not support Auto HDMI, you need to set the output resolution appropriately. To get the best picture quality, adjust the output resolution of the digital set-top box to 1280x720p.

When connecting with a Component cable

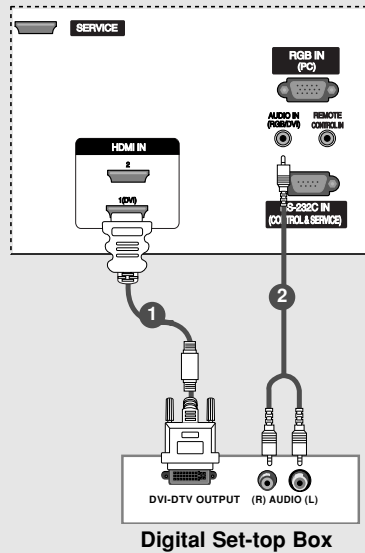


- 1 Connect the video outputs (Y, Pb, Pr) of the digital set-top box to the **COMPONENT IN VIDEO** jacks on the set.
- 2 Connect the audio output of the digital set-top box to the **COMPONENT IN AUDIO** jacks on the set.
- 3 Turn on the digital set-top box. (Refer to the owner's manual for the digital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



Signal	Component1/2	HDMI1/DVI, HDMI2
480i	Yes	No
480p/720p/1080i	Yes	Yes

When connecting with a HDMI to DVI cable



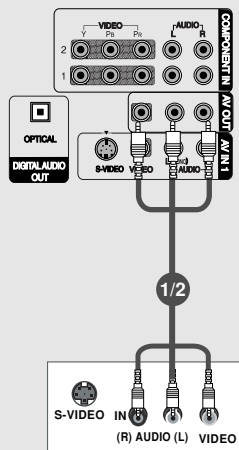
- 1 Connect the DVI output of the digital set-top box to the **HDMI IN 1(DVI)** jack on the set.
- 2 Connect the audio outputs of the set-top box to the **AUDIO IN(RGB/DVI)** jack on the set.
- 3 Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
- 4 Select **HDMI1/DVI**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



- If the digital set-top box has a DVI output and no HDMI output, a separated audio connection is necessary.
- If the digital set-top box supports Auto DVI function, the output resolution of the digital set-top box will be automatically set to 1280x720p.
- If the digital set-top box does not support Auto DVI, you need to set the output resolution appropriately. To get the best picture quality, adjust the output resolution of the digital set-top box to 1280x720p.

AV Out Setup

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



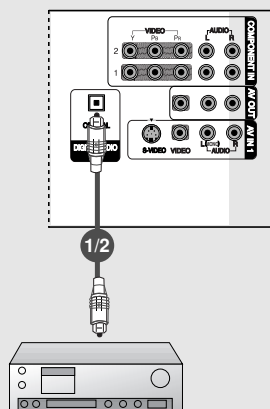
- 1 Connect the second TV or monitor to the TV's **AV OUT** jacks.
- 2 See the Operating Manual of the second TV or monitor for further details regarding that device's input settings.



- Component 1-2, RGB-PC, HDMI1/DVI, HDMI2, DTV input sources cannot be used for Monitor out.
- We recommend to use the video and audio output jacks for VCR recording.

Digital Audio Output

- Send the TV's audio to external audio equipment (stereo system) via the Digital Audio Output Optical port.



- 1 Connect one end of an optical cable to the TV Digital Audio Optical Output port.
- 2 Connect the other end of the optical cable to the digital audio optical input on the audio equipment.
- 3 See the external audio equipment instruction manual for operation.
When connecting with external audio equipments, such as amplifiers or speakers, please turn the TV speakers off. (Refer to p.43)



CAUTION

Do not look into the optical output port. Looking at the laser beam may damage your vision.

PC Setup

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

When connecting with a D-sub 15 pin cable

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

When connecting with a HDMI to DVI cable

- 1 Connect the DVI output of the PC to the **HDMI IN 1(DVI)** jack on the set.
- 2 Connect the audio outputs of the PC to the **AUDIO IN (RGB/DVI)** jack on the set.
- 3 Turn on the PC and the set.
- 4 Select **HDMI1/DVI** input source with using the **INPUT** button on the remote control.

• If the PC has a DVI output and no HDMI output, a separated audio connection is necessary.

• If the PC does not support Auto DVI, you need to set the output resolution appropriately. To get the best picture quality, adjust the output resolution of PC graphics card's output resolution to 1024x768, 60Hz.



1. Depending on the graphics card, DOS mode may not work if a HDMI to DVI Cable is in use.
2. When Source Devices connected with HDMI/DVI Input, output PC Resolution (VGA, SVGA, XGA, WXGA), Position and Size may not fit to Screen. Press the ADJUST button to adjust the screen Position of TV SET and contact an PC graphics card service center.
3. When Source Devices connected with HDMI/DVI Input, output TV SET Resolution (480p, 720p, 1080i, 1080p) and TV SET Display fit EIA/CEA-861-B Specification to Screen. If not, refer to the Manual of HDMI/DVI Source Devices or contact your service center.
4. In case HDMI/DVI Source Devices is not connected Cable or poor cable connection, "NO SIGNAL" OSD display in HDMI/DVI Input. In case that Video Resolution is not supported TV SET output in HDMI/DVI Source Devices, "INVALID FORMAT" OSD display. Refer to the Manual of HDMI/DVI Source Devices or contact your service center.
5. Check the image on your TV. There may be noise associated with the resolution, vertical pattern, contrast or brightness in PC, HDMI/DVI mode. If noise is present, change the PC or HDMI/DVI mode to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the menu until the picture is clear. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult the manufacturer of the PC graphic card.
6. Avoid keeping a fixed image on the TV's screen for a long period of time. The fixed image may become permanently imprinted on the screen.
7. The synchronization input form for Horizontal and Vertical frequencies is separate.

Supported Display Resolution (RGB-PC, HDMI1/DVI, HDMI2 Mode)

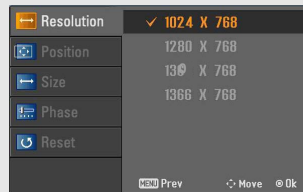
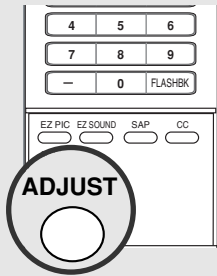
Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
640x350	31.468	70.08	1280x768	47.776	59.87
640x480	31.469	59.94	1360x768	47.720	59.80
720x400	31.469	70.08	1366x768	47.130	59.65
* 720x480	31.469	59.94	*1920x1080i	33.716	59.94
	31.500	60.00		33.750	60.00
800x600	37.879	60.31	*1920x1080p	27.000	24.00
1024x768	48.363	60.00		33.750	30.00
*1280x720	44.955	59.94	* This format is only for HDMI-DTV input.		
	45.000	60.00			

- 42PC3DVU is not supported to 1280x768, 1360x768, 1366x768, 1920x1080P.

Screen Setup for PC mode

- When RGB connect to PC input and select the RGB-PC, this function is used.
- When HDMI/DVI connect to PC input and select HDMI/DVI input, this function is used.
- After connecting RGB-PC or HDMI/DVI to PC input and checking the screen quality.

* Adjustment for screen Resolution, Position, Size, and Phase



Mini Glossary

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

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

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

Resolution This function allows you select Resolution of XGA/WXGA.

1 Press the **ADJUST** button and then use **▲ / ▼** button to select **Resolution, POSITION, SIZE, or PHASE**.

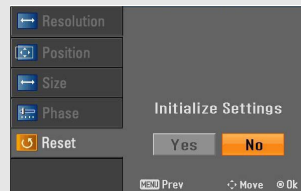
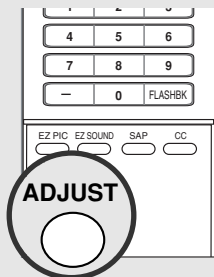
2 Press **ENTER** button and then use **▲ / ▼ / ◀ / ▶** buttons to make appropriate adjustments.

- The **PHASE** adjustment range is -16 ~ +16.
(In HDMI/DVI-PC mode, **PHASE** is not available.)
- The **SIZE** adjustment range is -30 ~ +30.
(In HDMI/DVI-PC mode, **SIZE** is not available.)

3 Press **ENTER** button.

*** When you change the resolution, select the proper resolution in present input to see the best picture appearance.**

* Initializing (Reset to original factory values)



- To initialize the adjusted values

1 Press the **ADJUST** button and then use **▲ / ▼** button to select the **RESET** option.

2 Press **ENTER** button and then use **◀ / ▶** button to select **Yes**.

3 Press **ENTER** button.

Operation

Basic operation

Turning on the TV

1. First, connect power cord correctly. At this moment, the TV switches to standby mode.
In standby mode to turn TV on, press the $\odot/|$, **INPUT, CH ▲ / ▼** button on the TV or press the **POWER, TV INPUT, INPUT, CH ▲ / ▼**, Number (0 ~ 9) button on the remote control .
2. Select the viewing source by using **TV INPUT, INPUT** button on the remote control.
This TV is programmed to remember which power state it was last set to, even if the power cord is out.
3. When finished using the TV, press the **POWER** button on the remote control. The TV reverts to standby mode.

Volume Adjustment

1. Press the **VOL ▲ / ▼** button to adjust the volume.
2. If you want to switch the sound off, press the **MUTE** button.
3. You can cancel this function by pressing the **MUTE** or **VOL ▲ / ▼** button.

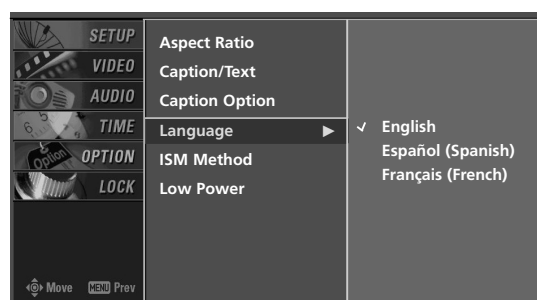
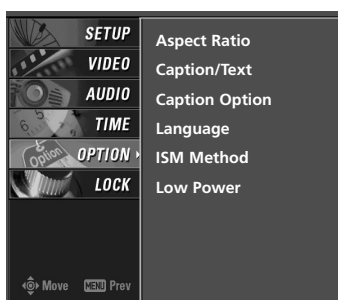
Channel Selection

Press the **CH ▲ / ▼** or **NUMBER** buttons to select a channel number.



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

On Screen Menus Language Selection



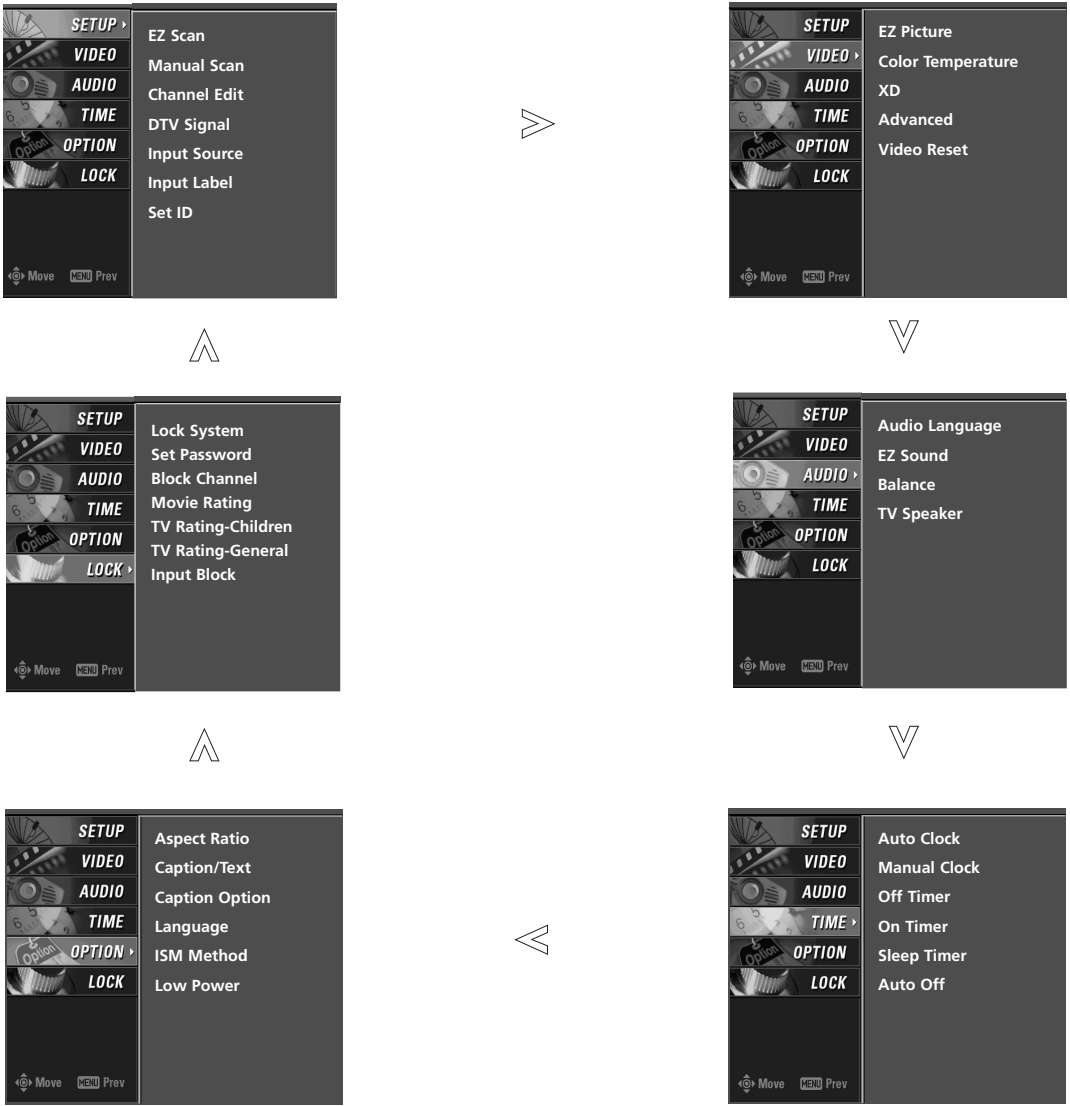
- The menus can be shown on the screen in the selected language. First select your language.

- 1 Press the **MENU** button and then use **▲ / ▼** button to select the **OPTION** menu.
- 2 Press the **▶** button and then use **▲ / ▼** button to select **Language**.
- 3 Press the **▶** button and then use **▲ / ▼** button to select your desired language. From this point on, the on-screen menus will be shown in the selected language.
- 4 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.

On Screen Menus Selection and Adjustment

How to adjust the OSD screen

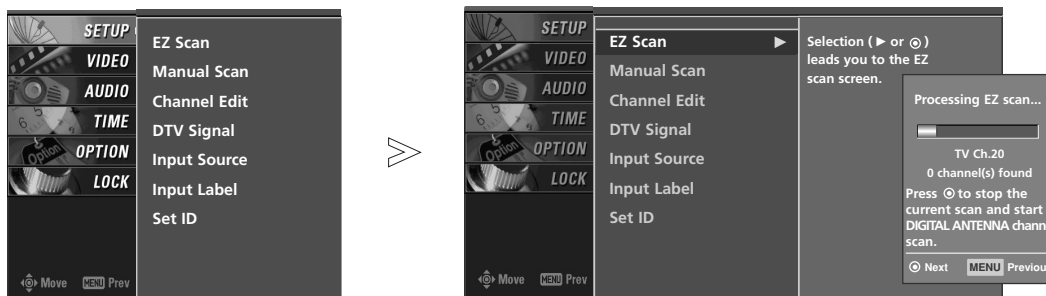
1. Press the **MENU** button and then **▲** / **▼** button to select each menu.
2. Press the **▶** button and then use **▲** / **▼** / **◀** / **▶** button to display the available menus.



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

Setup Menu Options

EZ Scan (Channel Search)



- Automatically finds all channels available through antenna or cable inputs, and stores them in memory on the channel list.
- Run EZ Scan again after any Antenna/Cable connection changes.
- A password is required to gain access to EZ Scan menu if the Lock System is turned on.

- 1 Press the **MENU** button and then use **▲** / **▼** button to select the **SETUP** menu.
- 2 Press the **▶** button and then use **▲** / **▼** button to select **EZ Scan**.
- 3 Press the **ENTER** button to begin the channel search. Allow EZ Scan to complete the channel search cycle for ANTENNA, and CABLE.

Manual Scan



- A password is required to gain access to Manual Scan menu if the Lock System is turned on.

- 1 Press the **MENU** button and then use **▲** / **▼** button to select the **SETUP** menu.
- 2 Press the **▶** button and then use **▲** / **▼** button to select **Manual Scan**.
- 3 Press the **▶** button and then use **▲** / **▼** button to select TV, DTV, CATV, and CADTV.
- 4 Press the **▶** button and then use **▲** / **▼** button to select channel number you want to add or delete.
- 5 Press the **ENTER** button to add or delete for the channel number.
- 6 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.