

A large, stylized 'V' shape, composed of two thick, parallel gray lines, dominates the left and center of the page. It is oriented diagonally, with its top pointing towards the upper left and its bottom towards the lower right.

Installation and Operating Guide

26LH1DC3

26LH1DC4

26LH1DC5

Please read this manual carefully before operating your set.

Retain it for future reference.

Record model number and serial number of the set. See the label attached on the back cover and quote this information to your dealer when you require service.

WARNING / CAUTION



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION:

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



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



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

WARNING

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT
EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.
THIS PRODUCT MUST BE USED WITH UL LISTED
MOUNTING BRACKET.



IT IS FORBIDDEN TO CONNECT THIS TV
TO ANY TELECOMMUNICATION
NETWORK / TELEPHONE.

NOTE TO CABLE TV INSTALLER

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

REGULATORY INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

CAUTION

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

THE PARTY RESPONSIBLE FOR PRODUCT COMPLIANCE

(LG Electronics U.S.A., Inc.)
(2000 Millbrook Drive)
(TELEPHONE NO:1-847-941-8000)

CAUTION

Do not attempt to modify this product in any way without written authorization from LG Electronics Corporation.

Unauthorized modification could void the user's authority to operate this product.

CAUTION

THESE SERVICING INSTRUCTIONS ARE FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY. TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE OPERATING INSTRUCTIONS UNLESS YOU ARE QUALIFIED TO DO SO.

WARNING

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

CAUTION

When used outside of the U.S., it may be used HAR cord with fitting of an approved agency is employed. (When used outside of U.S., other power supply cords may be used if the cord is approved by the local regulating agency.)

CLEANING AND DISINFECTION

Clean the exterior of this television by removing dust with a lint-free cloth.

CAUTION: To avoid damage to the surface of the television, do not use abrasive or chemical cleaning agents.

IMPORTANT SAFEGUARDS FOR YOU AND YOUR NEW PRODUCT

YOUR PRODUCT HAS BEEN MANUFACTURED AND TESTED WITH YOUR SAFETY IN MIND. HOWEVER, IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARDS. TO AVOID DEFEATING THE SAFEGUARDS THAT HAVE BEEN BUILT INTO YOUR NEW PRODUCT, PLEASE READ AND OBSERVE THE FOLLOWING SAFETY POINTS WHEN INSTALLING AND USING YOUR NEW PRODUCT, AND SAVE THEM FOR FUTURE REFERENCE. OBSERVING THE SIMPLE PRECAUTIONS DISCUSSED IN THIS MANUAL CAN HELP YOU GET MANY YEARS OF ENJOYMENT AND SAFE OPERATION THAT ARE BUILT INTO YOUR NEW PRODUCT.

! NOTE

- ▶ If the TV feels cold to the touch, there may be a small "flicker" when it is turned on. This is normal, there is nothing wrong with the TV.
- ▶ Some minute dot defects may be visible on the screen, appearing as tiny red, green, or blue spots. However, they have no adverse effect on the TV's performance.
- ▶ Avoid touching the LCD screen or holding your finger(s) against it for long periods of time. Doing so may produce some temporary distortion effects on the screen.

SAFETY INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

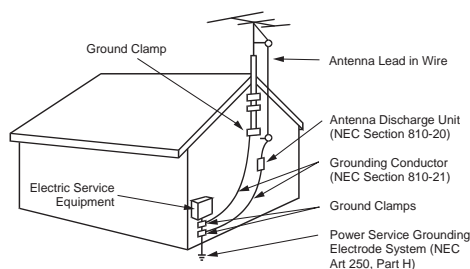


13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or object have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

Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (U.S.A.), ANSI/NFPA 70 provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Example of Grounding According to National Electrical Code Instructions



NEC - National Electrical Code

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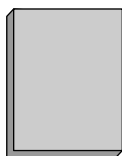
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PREPARATION

ACCESSORIES

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

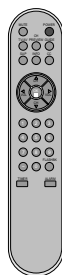
User must use shielded signal interface cables with ferrite cores to maintain standard compliance for the product.



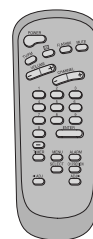
Owner's Manual



CD Manual



User Remote Control.
Batteries



Installer Remote Control.
Batteries (Optional)



Power Cord

Optional Installer Remote Control for Model No. Series 26LH1DC3/4/5

Shown herein is an optional Installer remote control available for the 26LH1DC3/4/5 models only. The installer remote control is NOT included with the TV.

- However, the user's remote is included with the TV.

Purchase the Optional Installer's Remote and Clone Programmer

To perform a normal installation set up, you need an installer's remote and the LT2002 Quickset II Clone Programmer – both are shown and described in later sections. See your LG dealer if you wish to purchase the Installer remote and LT2002. The installer remote allows access to the Installer menus, User menus in the Manual Channel Set options on the Setup menu. The installer remote has Menu, Select, and Adjust Keys. The LT2002 Quickset II Clone Programmer is used to duplicate a TV's setup and install it on another identical TV.

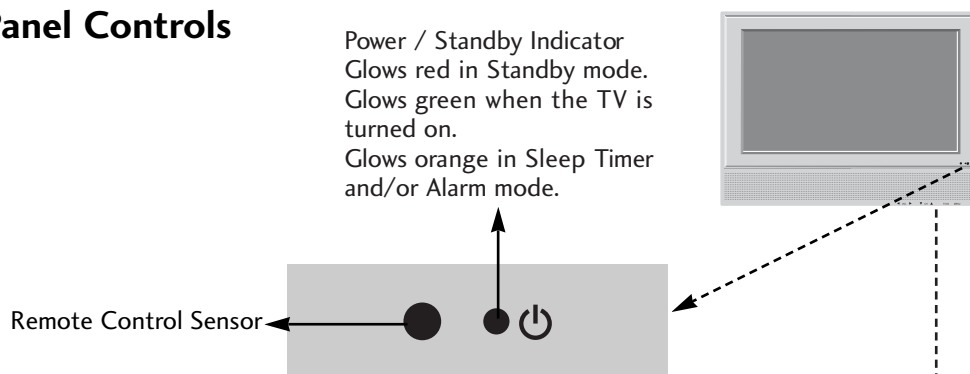
! NOTE

- Design and specifications are subject to change without prior notice.

FRONT PANEL INFORMATION

- Here shown may be somewhat different from your TV.
- Using the front control panel to operate the TV.

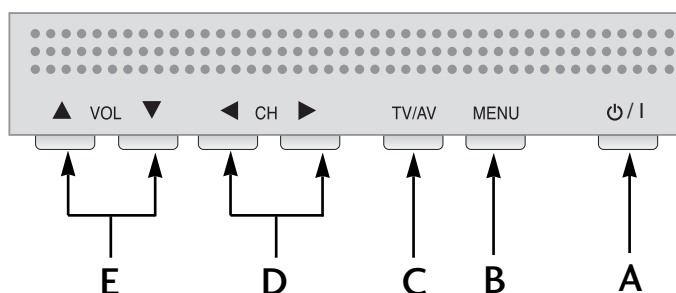
Front Panel Controls



- A** TV Operation
Press the **POWER** button to turn the TV on from standby mode.
- B** Press **MENU** repeatedly to scroll through menus.

! NOTE

- With Installer menu item 11 buttons Defeat set to 000 (the default setting), Menu and **TV/AV** buttons are disabled.



- C** Displays the current channel bank. Press again to change banks.
- D** Use the **CH** (Channel) Up/Down button to cycle through the available channels.
- E** Use the **VOL** (Volume) Up/Down button to adjust the sound level to your preference.

On-Screen Displays

See descriptions on page 25. On-screen displays will appear when the feature is active or the function is being used.

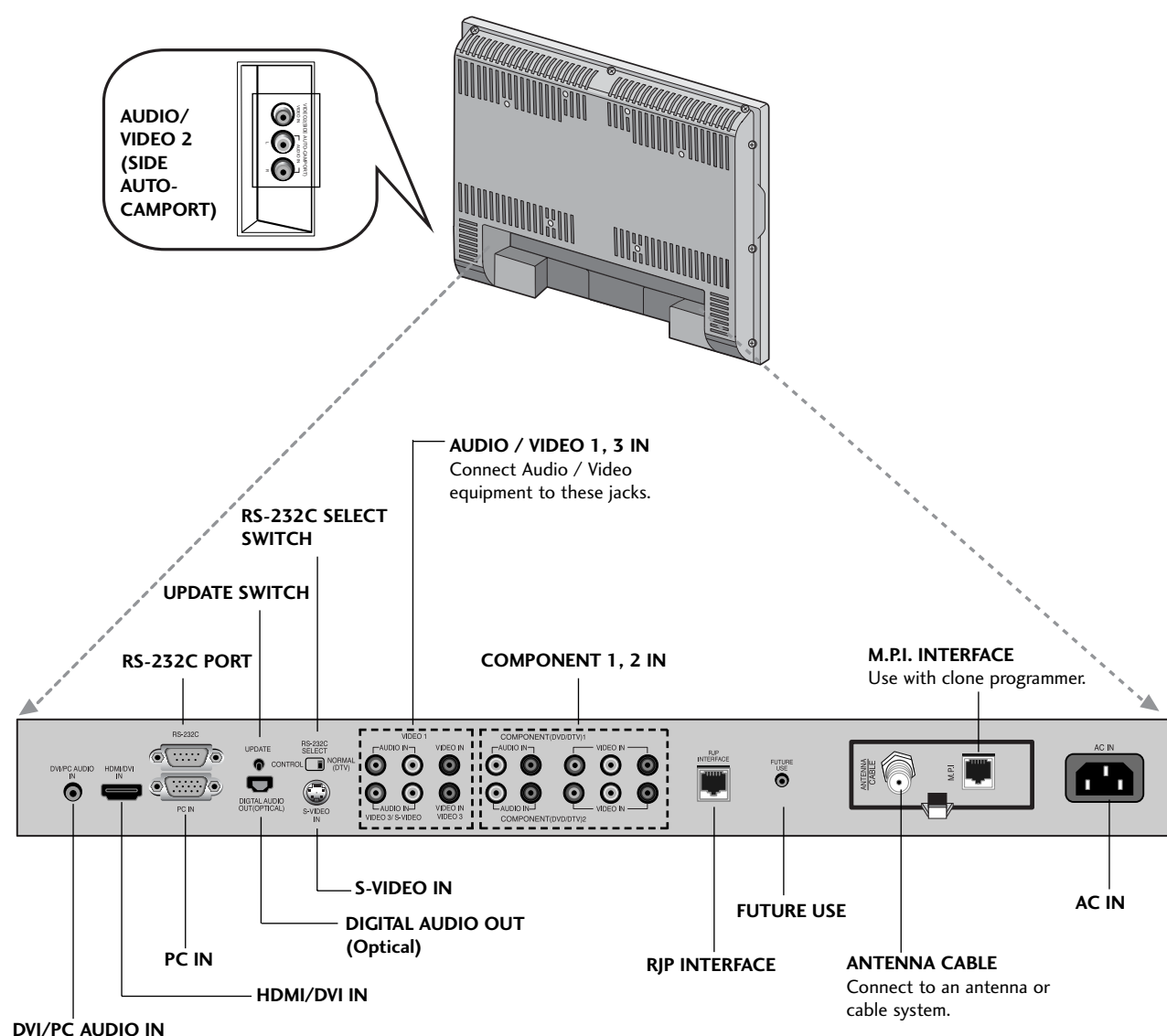
LED Color	Action/Status	
RED	Power is Off (Standby)	
GREEN is flashing	Power On sequence is processing	
GREEN	Power is On	
ORANGE	If Power is Off	On Timer is set or Alarm is set
	If Power is On	Off Timer is set or Sleep Timer is set

PREPARATION

BACK PANEL INFORMATION

- Here shown may be somewhat different from your TV.

Back Connection Panel



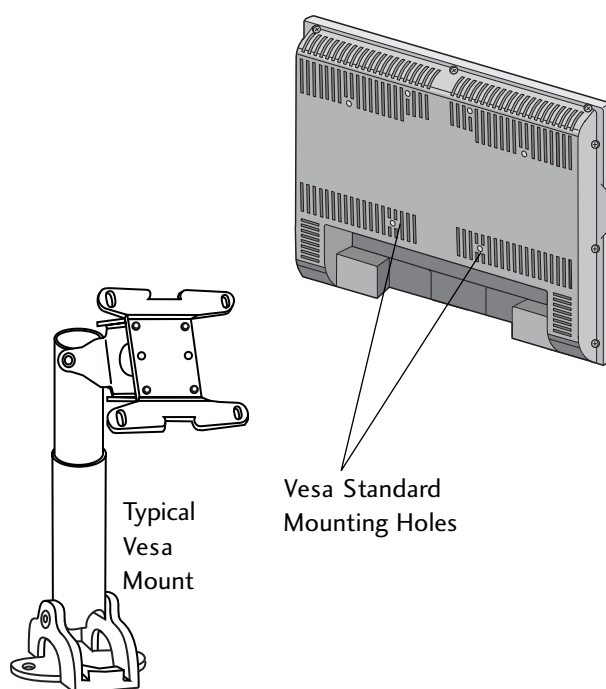
! NOTE

- RS-232C, Update Switch and RS-232C Select Switch are reserved for qualified and authorized service and technical support personal only.

VESA WALL MAUNTING

- Here shown may be somewhat different from your TV.

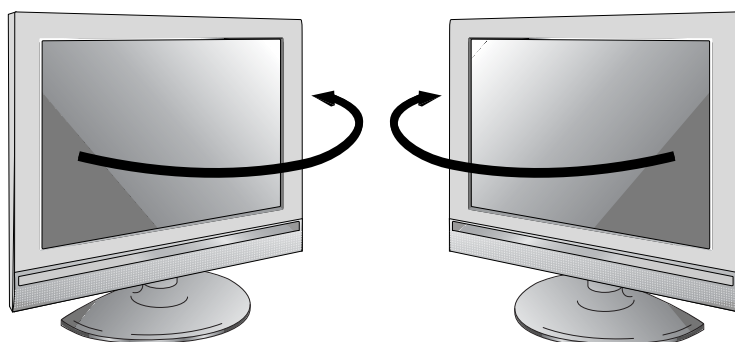
There are several Vesa standard mounts available that can be used with this TV. The mount shown to the right would be installed on the TV back using required bolts in the four pre-threaded holes provided. Follow any instructions supplied with the Vesa mount if one is to be used for the TV installation.



TV Swivel Stand

Swivel Stand

- The TV can be conveniently swiveled on its stand 30° to the left or right to provide optimum viewing angles.

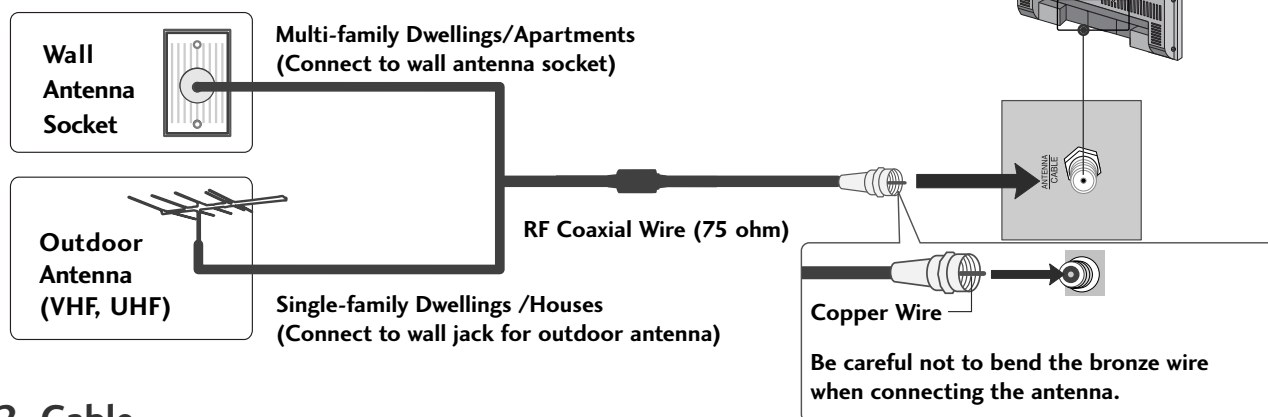


EXTERNAL EQUIPMENT SETUP

ANTENNA OR CABLE CONNECTION

1. Antenna (Analog or Digital)

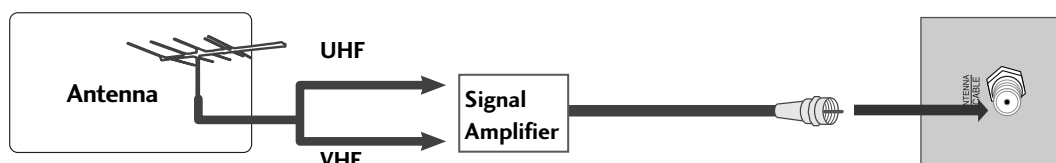
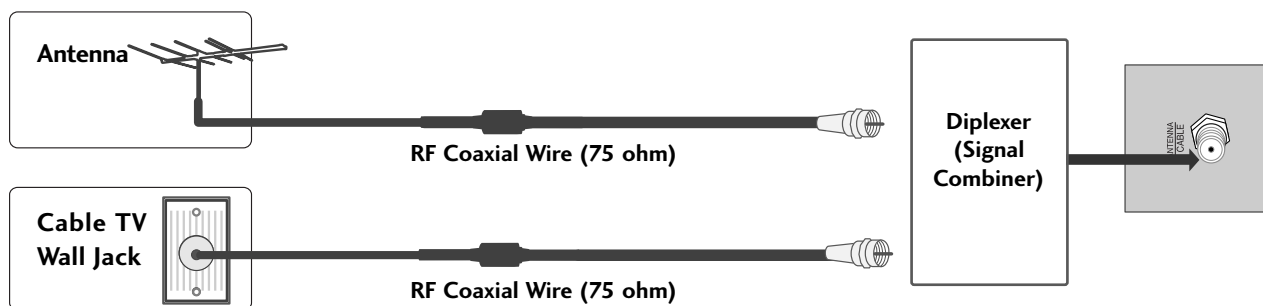
Wall Antenna Socket or Outdoor Antenna without a Cable Box Connections.
For optimum picture quality, adjust antenna direction if needed.



2. Cable



3. Using both cable and antenna



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

! NOTE ► The TV will let you know when the analog, cable, and digital channel scans are complete.

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

HD RECEIVER 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.

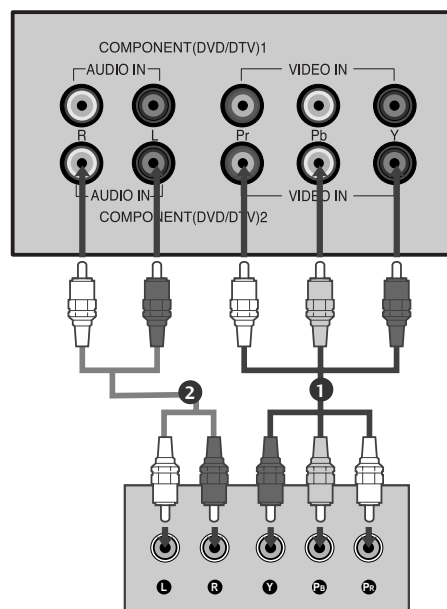
When connecting Component cable

1. How to connect

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

2. How to use

- Turn on the digital set-top box.
(Refer to the owner's manual for the digital set-top box operation)
- Select **Component1** input source by using the **TV/AV** button on the remote control.
- If connected to **COMPONENT(DVD/DTV)2** input, select **Component2** input source.



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

EXTERNAL EQUIPMENT SETUP

When connecting HDMI cable

1. How to connect

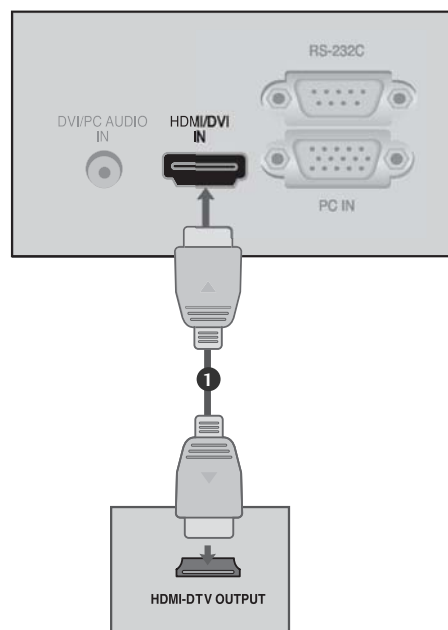
- 1 Connect the digital set-top box to **HDMI/DVI IN** jack on the set.
- 2 No separated audio connection is necessary. HDMI supports both audio and video.

2. How to use

- Turn on the digital set-top box.
(Refer to the owner's manual for the digital set-top box.)
- Select **HDMI** input source by using the **TV/AV** button on the remote control.

! NOTE

- ▶ When connected, the TV will tell a connected device what resolution it supports and the resolution it prefers. If the device supports this Auto HDMI function, the player output resolution will be automatically set to 720p.
- ▶ If the device does not support Auto HDMI, you need to set the output resolution appropriately.



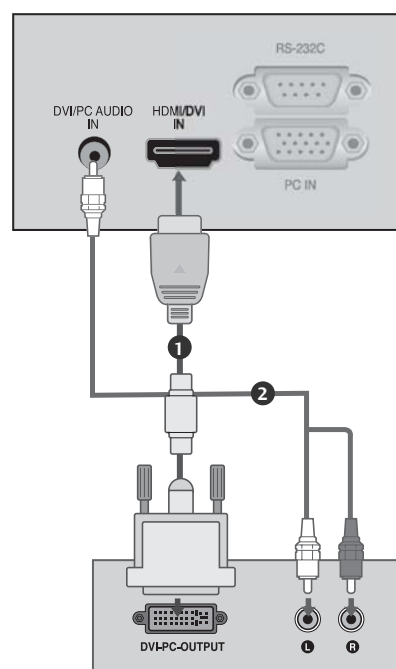
When connecting HDMI to DVI cable

1. How to connect

- 1 Connect the DVI output of the digital set-top box to the **HDMI/DVI IN** jack on the set.
- 2 Connect the audio output of the digital set-top box to the **DVI/PC AUDIO IN** jack on the set.

2. How to use

- Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
- Select **HDMI** input source by using the **TV/AV** button on the remote control.



EXTERNAL EQUIPMENT SETUP

DVD SETUP

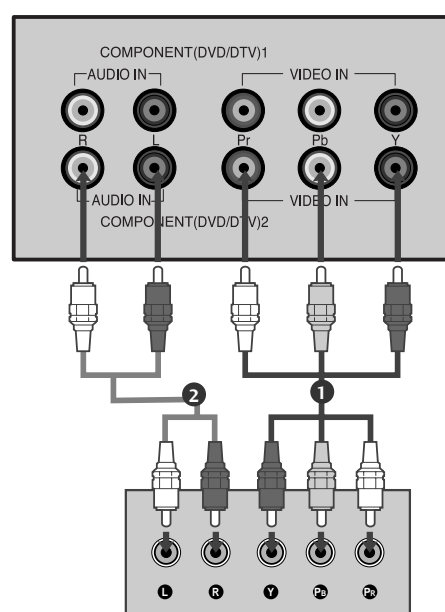
When connecting Component cable

1. How to connect

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

2. How to use

- Turn on the DVD player, insert a DVD.
- Select **Component1** input source by using the **TV/AV** button on the remote control.
- If connected to **COMPONENT(DVD/DTV)2** input, select **Component2** input source.
- Refer to the DVD player's manual for operating instructions.



Component Input ports

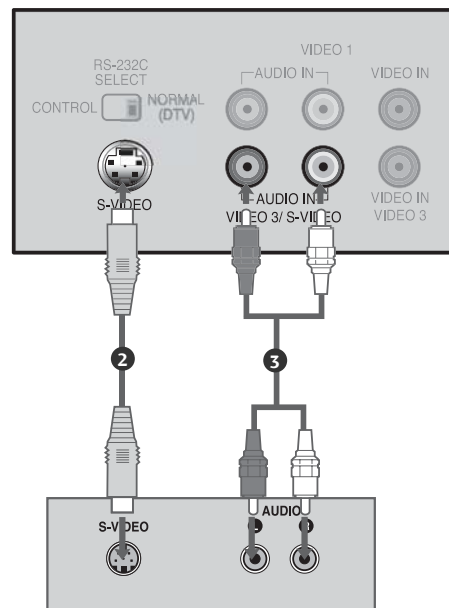
To get better picture quality, connect a DVD player to the component input ports as shown below.

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

When connecting with an S-Video cable

1. How to connect

- 1 Connect the S-VIDEO output of the VCR to the **S-VIDEO** input on the set.
- 2 Connect the audio outputs of the VCR to the **AUDIO** input jacks on the set.



When connecting HDMI cable

1. How to connect

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

2. How to use

- Select **HDMI** input source by using the **TV/AV** button on the remote control.
- Refer to the DVD player's manual for operating instructions.

! NOTE

- ▶ When connected, the TV will tell a connected device what resolution it supports and the resolution it prefers. If the device supports this Auto HDMI function, the player output resolution will be automatically set to 720p.
- ▶ If the device 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 720p.

EXTERNAL EQUIPMENT SETUP

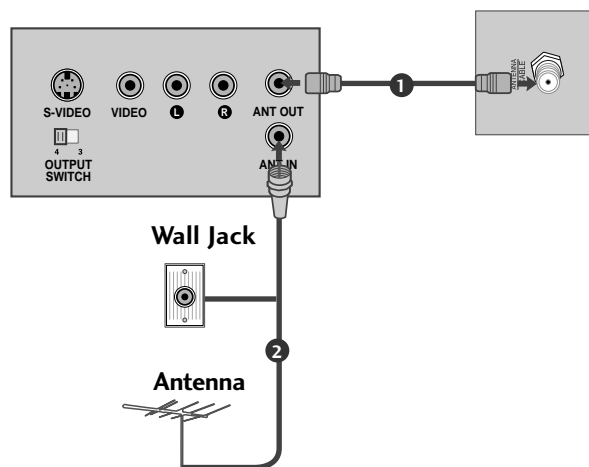
VCR SETUP

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

When connecting with an antenna

1. How to connect

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



2. How to use

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

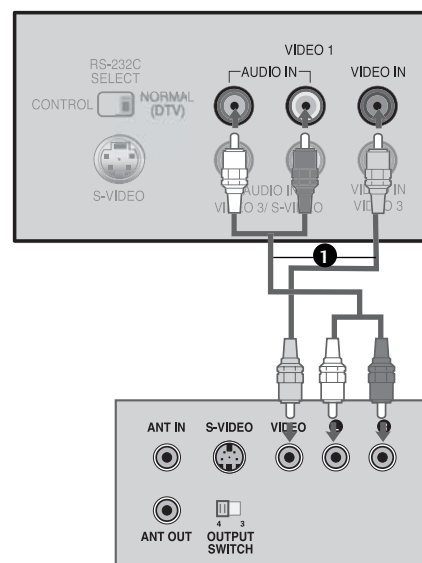
When connecting with a RCA cable

1. How to connect

- 1 Connect the **VIDEO1** jacks between TV and VCR. Match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red)

2. How to use

- Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
- Select **AV1** input source by using the **TV/AV** button on the remote control.
- If connected to **VIDEO3**, select **AV3** input source.



When connecting with an S-Video cable

1. How to connect

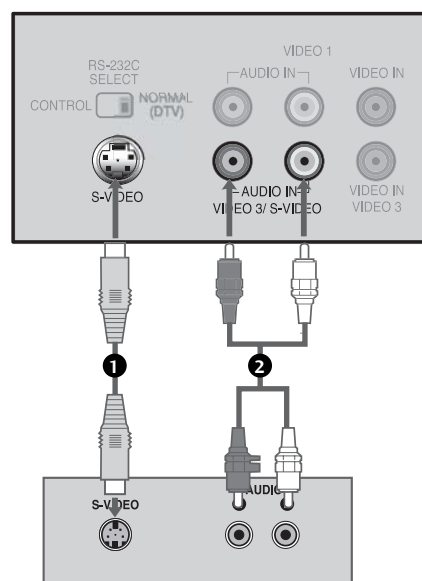
- 1 Connect the S-VIDEO output of the VCR to the **S-VIDEO** input on the set.
- 2 Connect the audio outputs of the VCR to the **AUDIO IN** jacks on the set.

2. How to use

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

! NOTE

- The picture quality is improved: compared to normal composite (RCA cable) input.



! CAUTION

- 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 EQUIPMENT SETUP

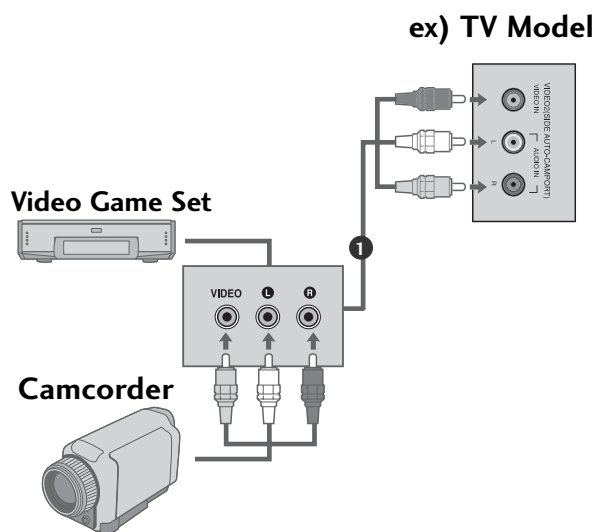
OTHER A/V SOURCE SETUP

1. How to connect

- 1 Connect the **VIDEO2** jacks between TV and external equipment. Match the jack colors.
(Video = yellow, Audio Left = white, and Audio Right = red)

2. How to use

- Select **AV2** input source by using the **TV/AV** button on the remote control.
- Operate the corresponding external equipment.



DIGITAL AUDIO OUTPUT

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

1. How to connect

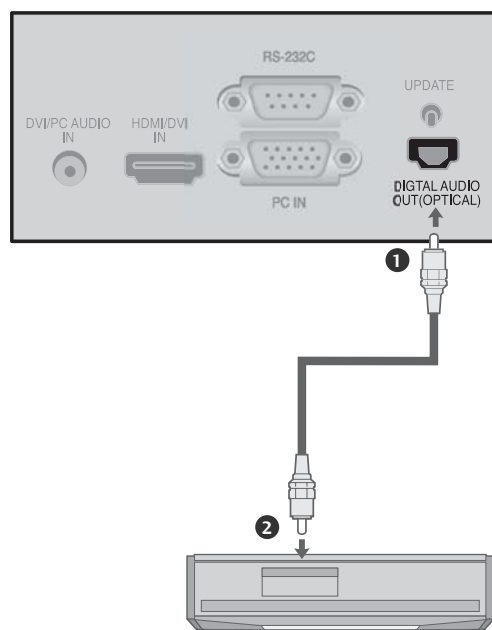
- 1 Connect one end of an optical cable to the TV Digital Audio (Optical) Output port.
- 2 Connect the other end of the optical cable to the digital audio (optical) input on the audio equipment.
- 3 Set the "Digital Output - Dolby Digital" in the Sound menu. (► p.44). See the external audio equipment instruction manual for operation.

! NOTE

- When connecting with external audio equipments, such as amplifiers or speakers, please turn the TV speakers off. (► p.46)

! 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.

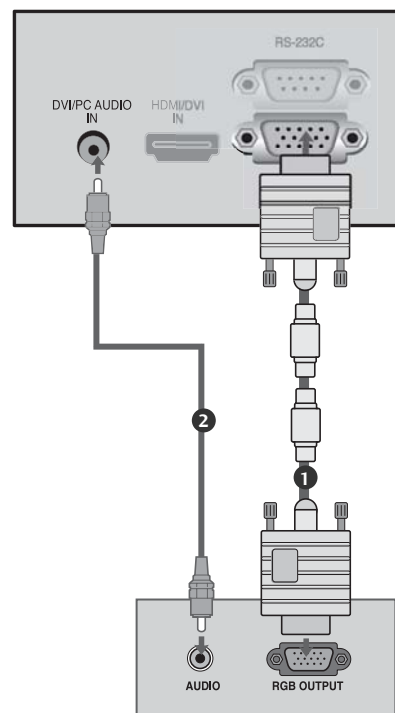
When connecting D-sub 15pin cable

1. How to connect

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

2. How to use

- Turn on the PC and the TV.
- Select **PC** input source by using the **TV/AV** button on the remote control.



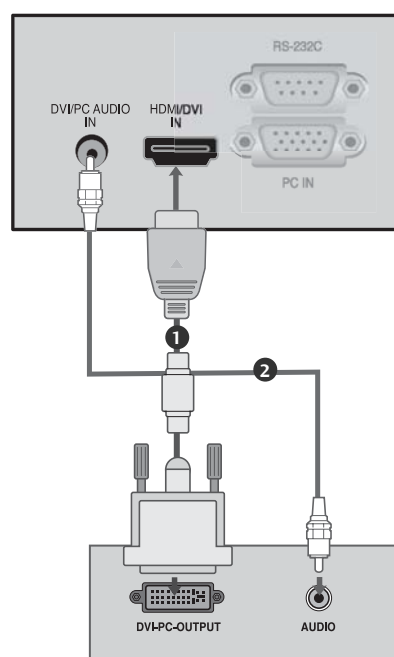
When connecting HDMI to DVI cable

1. How to connect

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

2. How to use

- Turn on the PC and the TV.
- Select **HDMI** input source by using the **TV/AV** button on the remote control.



EXTERNAL EQUIPMENT SETUP

! NOTE

- ▶ To get the the best picture quality, adjust the PC graphics card to 1024x768, 60Hz.
- ▶ Depending on the graphics card, DOS mode may not work if a HDMI to DVI Cable is in use.
- ▶ Check the image on your TV. There may be noise associated with the resolution, vertical pattern, contrast or brightness in PC mode. If noise is present, change the PC output to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the VIDEO menu until the picture is clear. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult the manufacturer of the PC graphic card.
- ▶ Avoid keeping a fixed image on the screen for a long period of time. The fixed image may become permanently imprinted on the screen.
- ▶ The synchronization input form for Horizontal and Vertical frequencies is separate.

Supported Display Specifications

RGB-PC, HDMI1/DVI-PC mode

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
640x350	31.469	70.08
720x400	31.469	70.08
640x480	31.469	59.94
800x600	37.879	60.31
1024x768	48.363	60.00
1280x768	47.776	59.87
1360x768	47.720	59.799
1366x768	47.130	59.65

* RGB-PC mode only: 640x350, 720X400

HDMI1/DVI-DTV, HDMI2-DTV mode

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
720x480	31.469 31.500	59.94 60.00
1280x720	44.960 45.000	59.94 60.00
1920x1080i	33.720 33.750	59.94 60.00

SCREEN SETUP FOR PC MODE

Overview

When the RGB input of the set is connected to a PC output, select the RGB-PC as the main input mode.

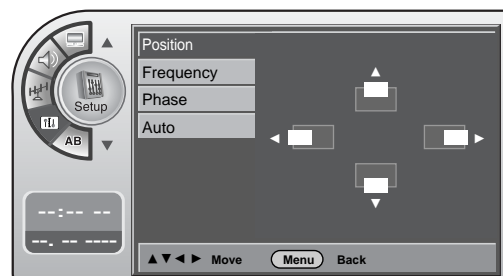
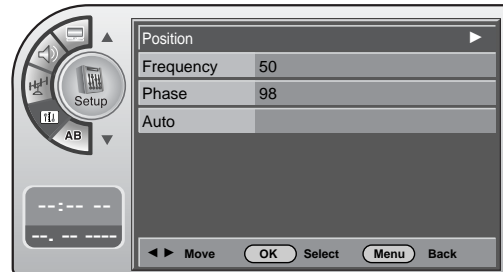
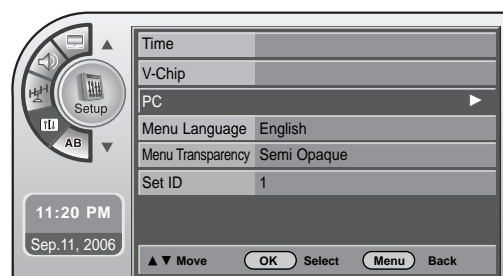
When HDMI/DVI connect to PC output and select HDMI/DVI input, this function is used.

After connecting RGB-PC or HDMI/DVI to PC input and checking the screen quality.

When you change the resolution, select the proper resolution in pre-sent input to see the best picture appearance.

Adjustment for screen Position, Frequency, Phase and Auto

- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Setup** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to highlight **PC** and press the **OK (Enter)** button.
- 3 Use the **ADJ ▲** or **▼** button to highlight **Position**, **Frequency**, **Phase**, **Auto** and press the **OK (Enter)** button.
- 4 Use the **ADJ ▲ ▼ ◀ ▶** button to make appropriate adjustment. When finished, press **OK (Enter)** button.
 - The **Frequency**, **Phase** adjustment range is **0~100**.
- 5 When finished, press **MENU** repeatedly to remove the menus.

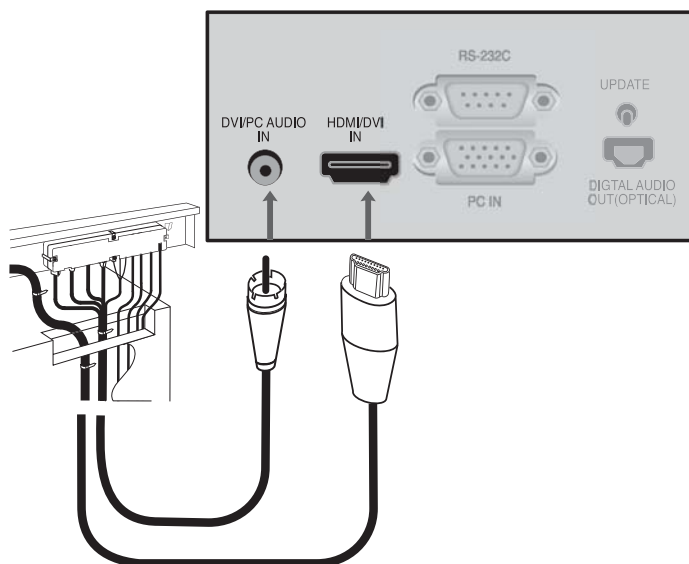


EXTERNAL EQUIPMENT SETUP

DVI HOOKUP TO RJP OR DVD PLAYER

1. How to connect

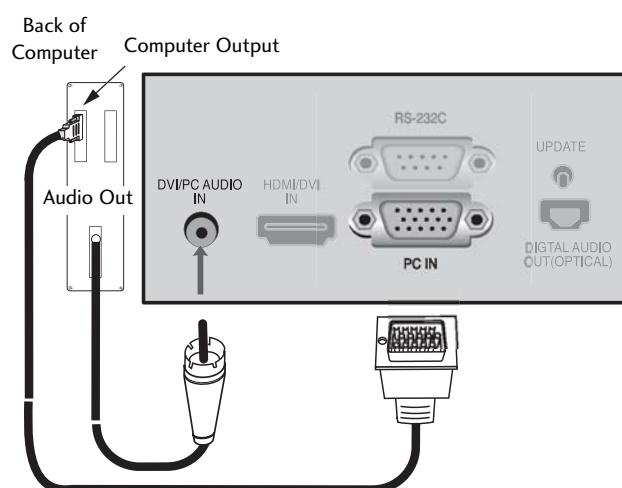
- 1 Locate the DVI out port on the RJP (Remote Jack Pack) or DVI device.
 - 2 Connect a DVI cable between the RJP and DVI in port on the TV.
 - 3 If required, make Audio connections as indicated to the right.
- After all connections have been made, select the DVI source to display the DVI image on the TV.



COMPUTER PC HOOKUP

1. How to connect

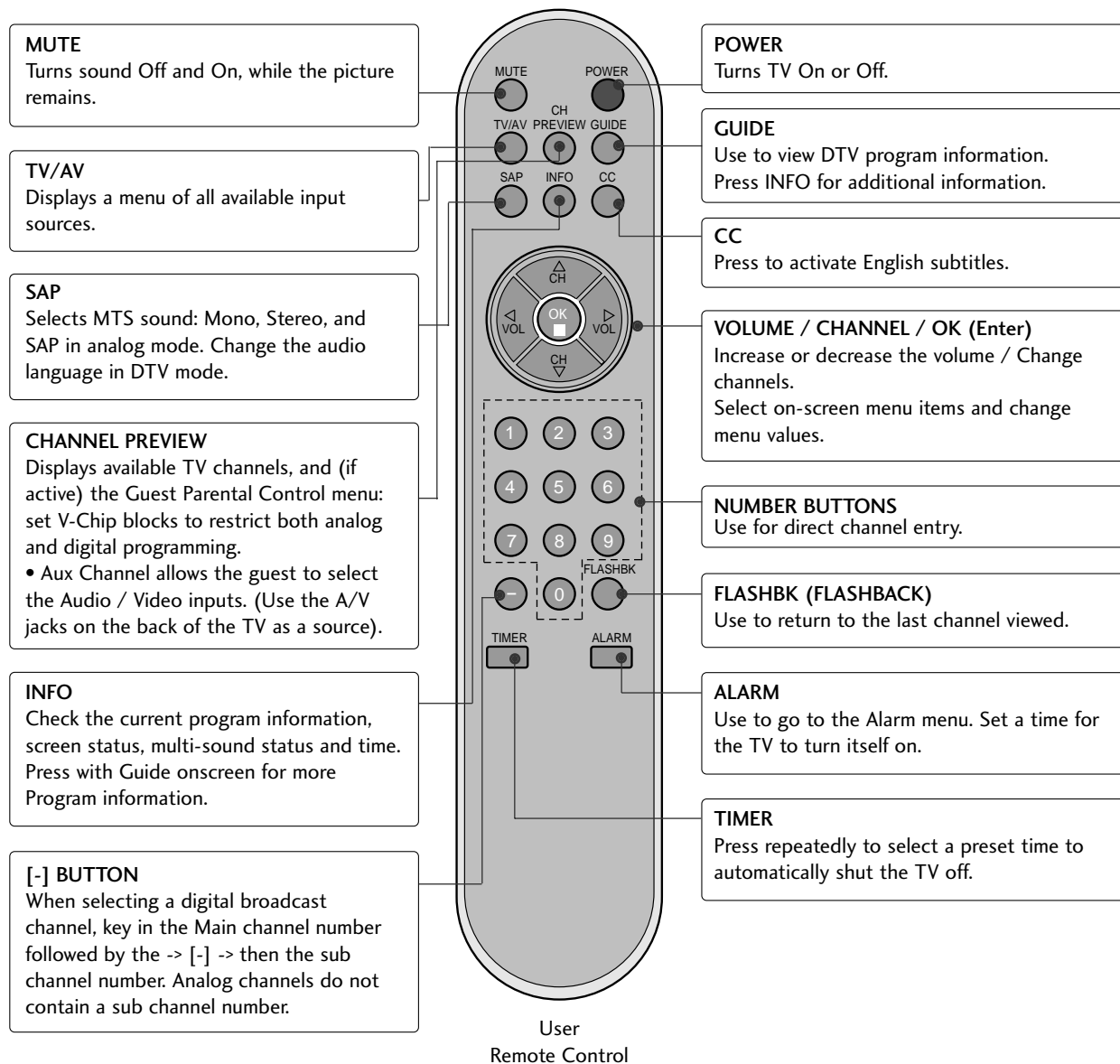
- 1 Locate the computer out port on the computer.
 - 2 Connect a computer cable between the computer and PC In on the TV.
 - 3 Make PC Audio connections as indicated to the right.
- After all connections have been made, select the PC source to display the PC image on the TV.



WATCHING TV / CHANNEL CONTROL

USER REMOTE CONTROL BUTTON FUNCTIONS

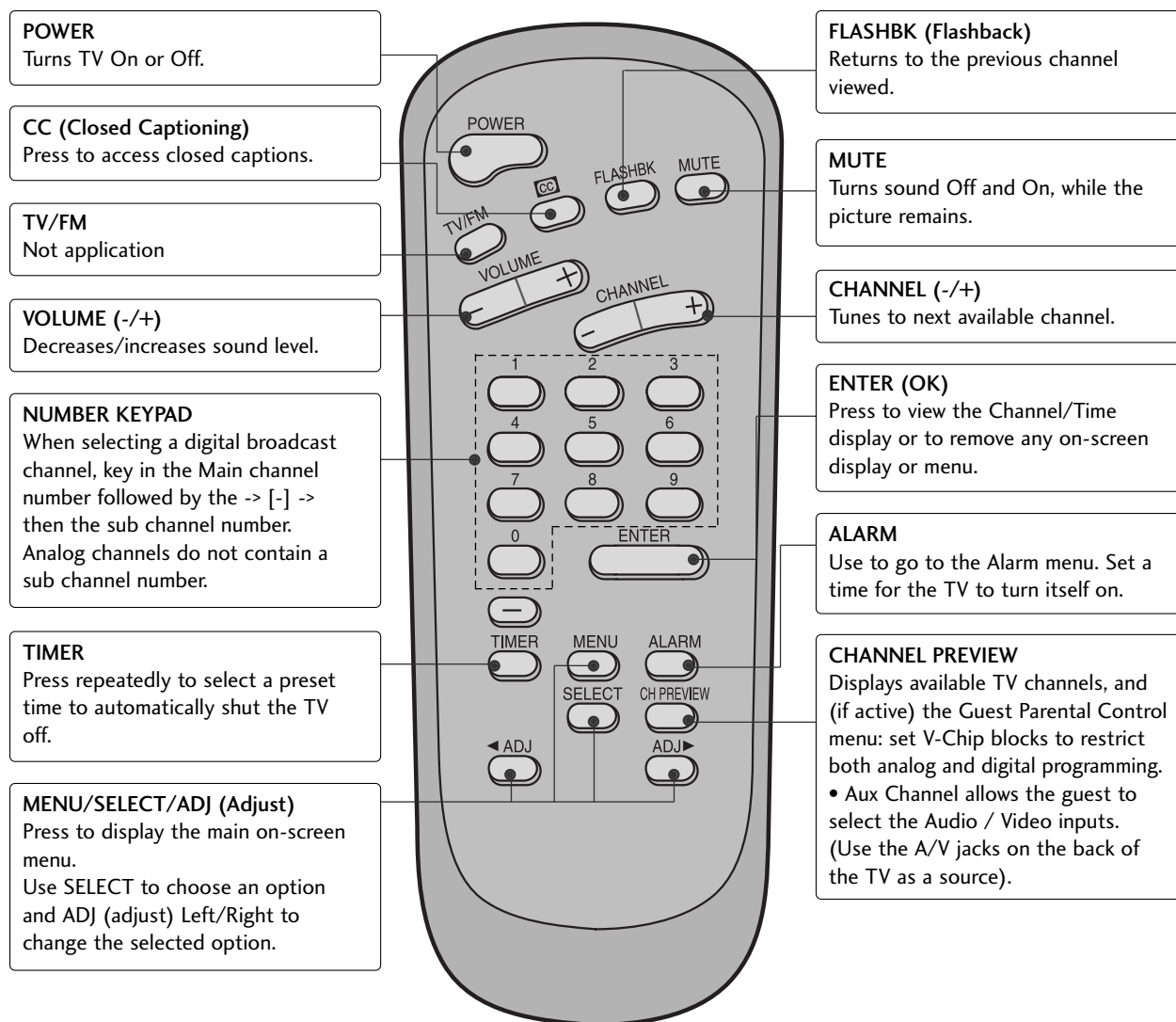
A brief list of the buttons on the optional user's remote and what they do.



WATCHING TV / CHANNEL CONTROL

INSTALLER REMOTE CONTROL BUTTON FUNCTIONS

A brief list of the buttons on the optional installer's remote and what they do.

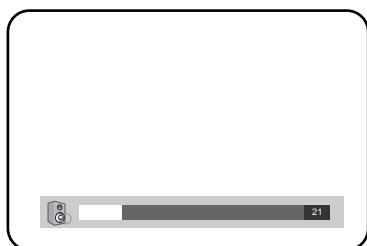


Installer
Remote Control

ON-SCREEN MENUS SELECTION

Use the remote keys indicated below to access these menus and displays.

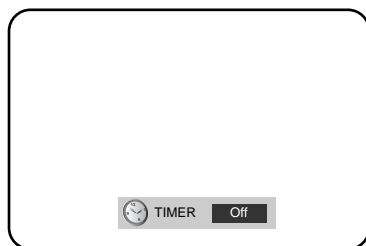
In this manual, the OSD (On Screen Displays shown) may be different. The following are just generic examples to familiarize you with the TV's options.



Volume Display

Press VOLUME.

Shows currently selected sound setting.



Sleep Timer Menu

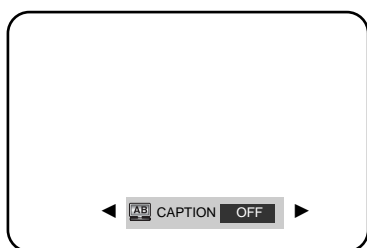
Press TIMER.

Sets a time to automatically turn the TV off and shows remaining time before TV shutoff.



SAP Display

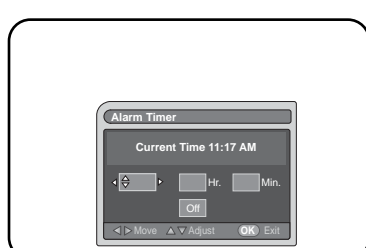
Selects MTS sound: Mono, Stereo, and SAP in analog mode. Change the audio language in DTV mode.



Caption Display

Press the CC.

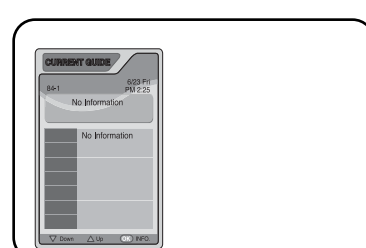
Turns selected option on or off. See Closed Captions page to select options.



Alarm Display

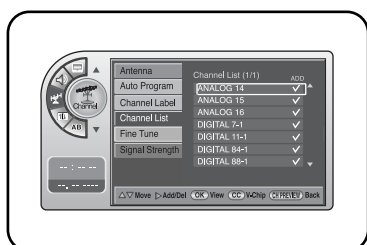
Press the ALARM.

Set a time for the TV to turn itself on.



Guide Display

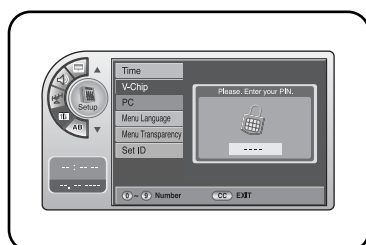
Press the GUIDE to view DTV program information.



Channel Preview

Press the CH PREVIEW.

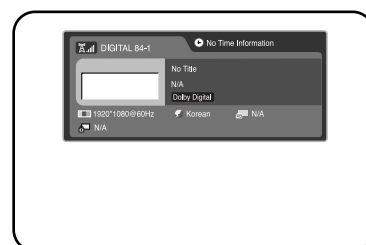
Displays available TV channels.



V-Chip

Press the CC.

Move to the V-Chip menu.



INFO

Press the INFO.

Check the current program information.

WATCHING TV /CHANNEL CONTROL

CHANNEL SEARCH

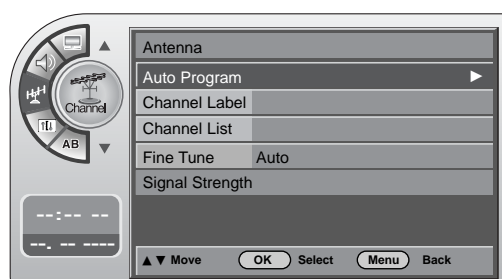
Auto Program (Channel Search)

Use Auto Program to automatically find and store all of the channels available in the selected Tuning Band.

! NOTE

- ▶ Tuning Band must be set before doing the channel search. See Installer menu item 003 Band/AFC. Default setting is 1, for CATV. When Auto Program is run, any assigned channel labels are automatically removed.

- 1 With the optional Installer remote control in hand and press the **POWER** button to turn the TV on.
- 2 Press the **MENU** button and then use the **ADJ** ▲ or ▼ button to highlight the **Channel** menu and press the **OK (Enter)** button.
- 3 Press the **OK (Enter)** button to highlight **Auto program**.
- 4 Press the **OK (Enter)** button to start the channel search.
After finding all available channels, a display appears briefly showing the number of analog and digital channels found.
- 5 When finished, press **MENU** repeatedly to remove the menus.



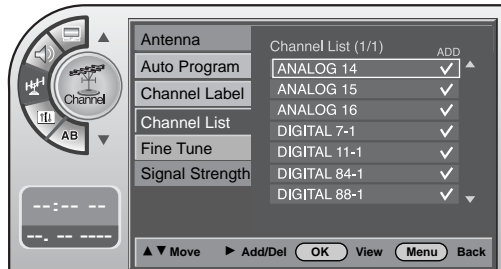
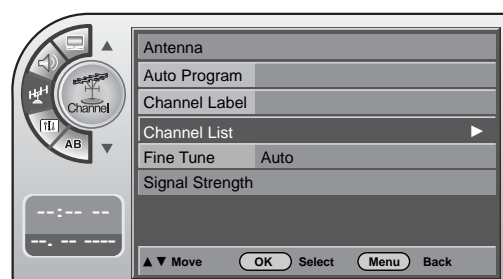
! NOTE

- ▶ Auto Program finds channels being received by the TV's analog and digital tuners.
- ▶ Cable will not work unless you subscribe to a cable service.

Channel List

After the channel search, remove unwanted channels.

- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Channel** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to highlight **Channel List** and press the **OK (Enter)** button.
- 3 Use the **ADJ ▲** or **▼** button to highlight the channel you wish to delete and press the **ADJ ►** button. The **ADJ ►** button toggles the check mark on and off. If the check mark appears next to the channel number, the channel appears in the channel scan.
- 4 When finished, press **MENU** repeatedly to remove the menus.



! NOTE

- If you delete a found channel, it isn't gone forever. Simply re-enter the Channel List menu and re-add the channel to show the check mark.

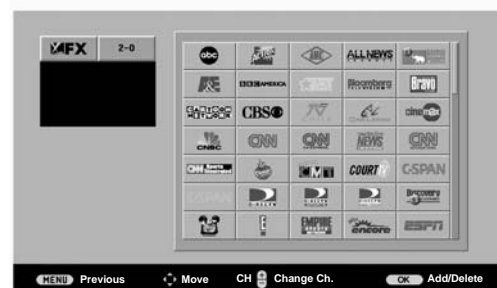
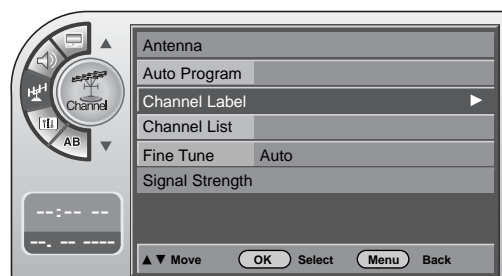
WATCHING TV /CHANNEL CONTROL

Channel Labels Setup

Channel Labels help the user identify the channel or network being viewed.

In the Setup menu with the Channel Labels option highlighted, use the **ADJ ▲ ▼ ◀ ▶** buttons to scroll through the available channel labels, such as, A&E, AMC, ESPN, HBO, etc. These are a series of preset labels from which you can choose the more common networks. Use any of these to label the channels in the TV's memory.

- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Channel** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to highlight **Channel Label** and press the **OK (Enter)** button. This action displays the **Channel Label** menu.
- 3 Use **Channel ▲** or **▼ (+ / -)** button to select channels and the **ADJ ▲ ▼ ◀ ▶** buttons to navigate the labels menu.
- 4 When the label is highlighted you want for the channel shown in the screen and press **OK (Enter)** button to add the label to the channel.
- 5 Select the next channel to label with **Channel ▲** or **▼ (+ / -)** button to or if finished channel labeling.
- 6 When finished, press **MENU** repeatedly to remove the menus.

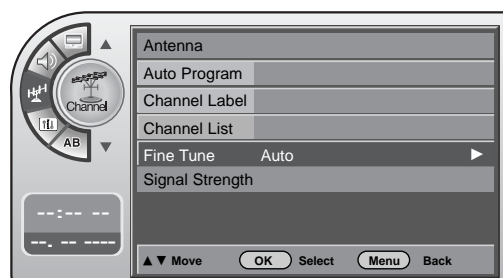


Unstable Screen

If a dashed line or no color appears, the screen is unstable, therefore try channel adjustments.

(This is only available for analog broadcasting.)

- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Channel** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to highlight **Fine Tune** and press the **OK (Enter)** button.
- 3 Press the **ADJ ◀** or **▶** button to adjust.
- 4 When finished, press **MENU** repeatedly to remove the menus.

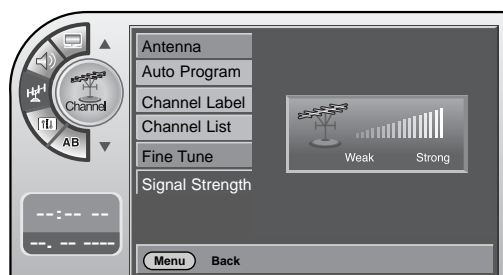
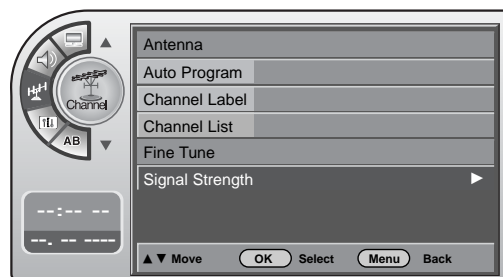


Checking the Strength of the Digital Signal

This shows the current digital signal strength as a picture.

(This is only available for digital broadcasting.)

- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Channel** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to highlight **Signal Strength** and press the **OK (Enter)** button.
- 3 View the on-screen signal strength monitor to see the quality of the signal being received.
- 4 When finished, press **MENU** repeatedly to remove the menus.



TIME SETTING

CLOCK SETTING

Manual Time Settings

Use the **ADJ** ▲ ▼ ◀ ▶ buttons to set the year, month, day, hours and minutes.

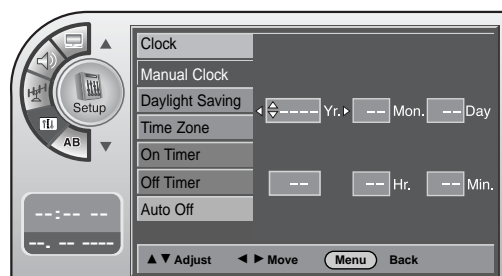
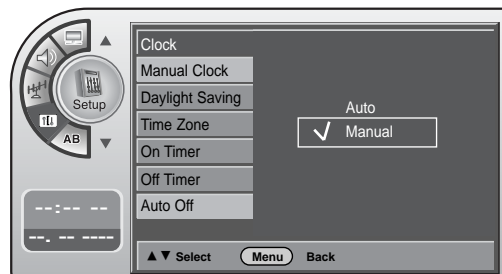
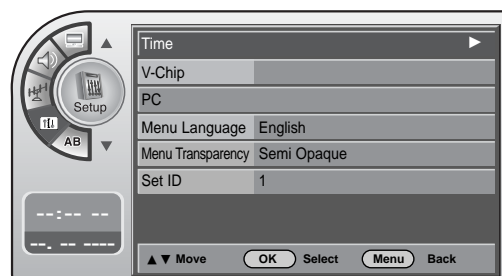
- 1 Press the **MENU** button and then use the **ADJ** ▲ or ▼ button to highlight the **Setup** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ** ▲ or ▼ button to the **Time**.
- 3 Press the **OK (Enter)** button to highlight **Clock**. Manual or Auto will appear on the menu next to clock. If manual is selected, on the menu use the **ADJ** ▲ or ▼ button to highlight **Manual** and press the **OK (Enter)** button.
- 4 Use the **ADJ** ▲ or ▼ button to highlight **Manual Clock** and press the **OK (Enter)** button.
- 5 Use the **ADJ** ▲ ▼ ◀ ▶ buttons to set the year, month, day, hours and minutes.
- 6 When finished, press **MENU** repeatedly to remove the menus.

On-Off Timers Setup

Set the On-Off Timers using the procedures described above.

! NOTE

- ▶ If you intend to use the On-Off Timers, it is best to set the clock manually.



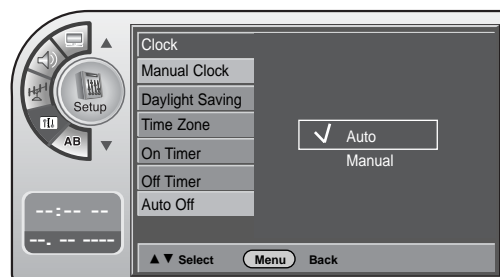
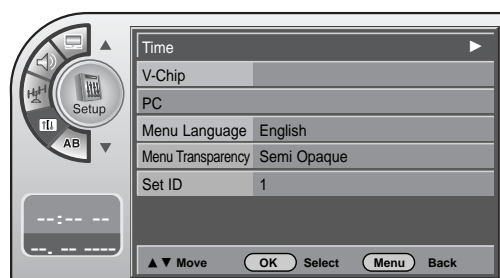
Automatic Time Settings

If you select auto time setting, time will be set from the digital broadcast information.

- 1 Press the **MENU** button and then use the **ADJ** ▲ or ▼ button to highlight the **Setup** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ** ▲ or ▼ button to the **Time**.
- 3 Press the **OK (Enter)** button to highlight **Clock**. Manual or Auto will appear on the menu next to clock. Select Auto on the sub-menu with the **ADJ** ▲ or ▼ button and press the **OK (Enter)** button.
- 4 Use the **ADJ** ▲ ▼ ◀ ▶ buttons to set the Daylight Savings and Time Zone options for your local area. See the next page.
- 5 When finished, press **MENU** repeatedly to remove the menus.

! NOTE

- ▶ Caution: Some digital channels may change the time incorrectly using the Automatic Clock Set feature.
- ▶ In this event, the Alarm may not function as intended and the TV may not turn on at the expected time.
- ▶ If the end user will have access to the Alarm, it may be best to use the Manual Clock Set mode and set the clock to local time manually.



Mini glossary

TIME

A four-digit figure broken down into hours and minutes, used to enter the current time when setting the clock or wake-up alarm.

HOURS

First two digits that are entered when setting the clock or the wake-up alarm.

MINUTES

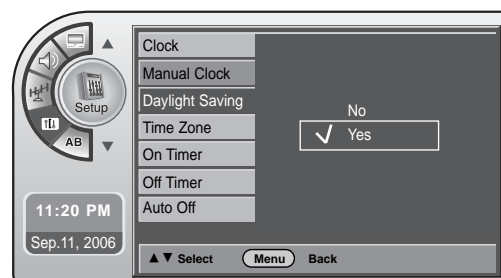
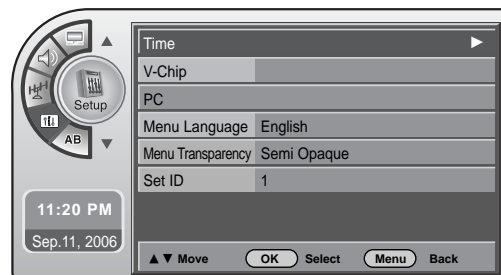
The last two digits that are entered when setting the clock, or the wake-up alarm.

TIME SETTING

Daylight Saving

Installer can select to use Daylight Savings to adjust the clock time. This is operated from the Automatic Time Settings.

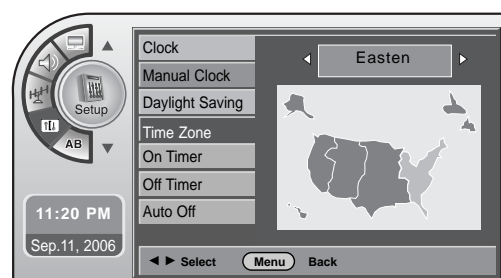
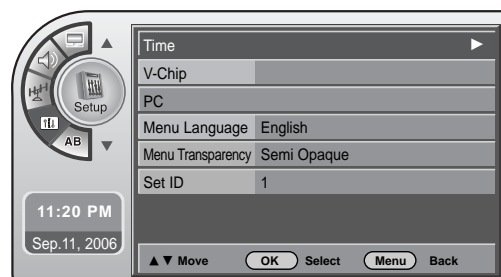
- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Setup** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to the **Time**.
- 3 Press the **OK (Enter)** button to highlight **Clock**.
- 4 Use the **ADJ ▲** or **▼** button to highlight the **Daylight Saving** and press the **OK (Enter)** button.
- 5 Use the **ADJ ▲** or **▼** button to choose **Yes** or **No**.
- 6 When finished, press **MENU** repeatedly to remove the menus.



Time Zone Settings

Installer can set the Time Zone. This is operated from the Automatic Time Settings.

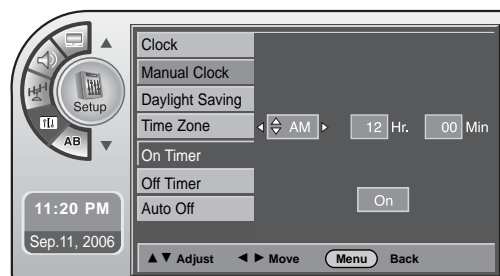
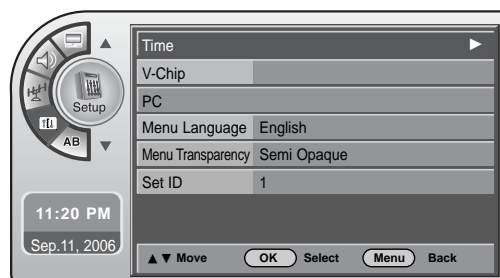
- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Setup** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to the **Time**.
- 3 Press the **OK (Enter)** button to highlight **Clock**.
- 4 Use the **ADJ ▲** or **▼** button to highlight **Time Zone** and press the **OK (Enter)** button.
- 5 Use the **ADJ ◀** or **▶** button to select the **Time Zone** and press the **OK (Enter)** button.
- 6 When finished, press **MENU** repeatedly to remove the menus.



TV Activation Time Settings

You can set a time for the TV to automatically turn-on.

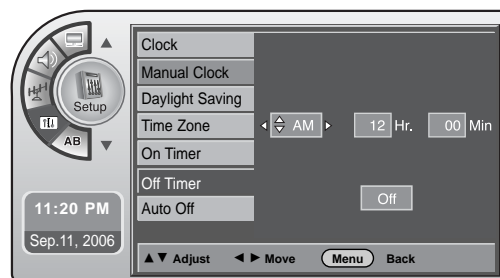
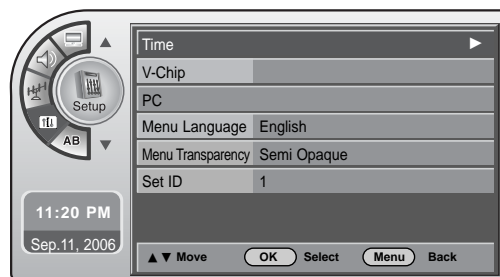
- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Setup** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to the **Time**.
- 3 Press the **OK (Enter)** button to highlight **Clock**.
- 4 Use the **ADJ ▲** or **▼** button to highlight **On Timer** and press the **OK (Enter)** button.
- 5 Use the **ADJ ▲ ▼ ◀ ▶** buttons to choose **AM / PM**, **Hours**, **Minutes** and time period to turn-on.
- 6 When finished, press **MENU** repeatedly to remove the menus.



TV Deactivation Time Settings

You can set a time for the TV to automatically turn-off.

- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Setup** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to the **Time**.
- 3 Press the **OK (Enter)** button to highlight **Clock**.
- 4 Use the **ADJ ▲** or **▼** button to highlight **Off Timer** and press the **OK (Enter)** button.
- 5 Use the **ADJ ▲ ▼ ◀ ▶** buttons to choose **AM / PM**, **Hours**, **Minutes** and time period to turn-off.
- 6 When finished, press **MENU** repeatedly to remove the menus.

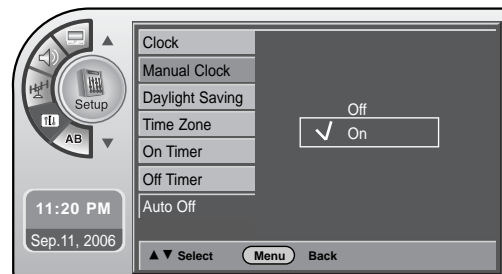
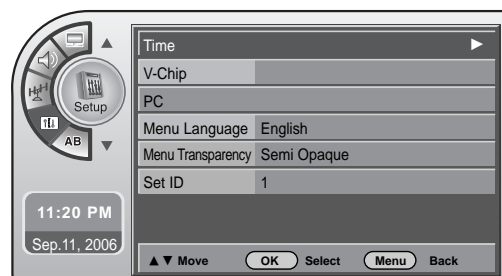


TIME SETTING

Auto Off

If there is no signal on the TV for 15 minutes or more, or if no button is pressed for more than 3 hours, this function turns off the TV automatically.

- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Setup** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to the **Time**.
- 3 Press the **OK (Enter)** button to highlight **Clock**.
- 4 Use the **ADJ ▲** or **▼** button to highlight **Auto Off** and press the **OK (Enter)** button.
- 5 Use the **ADJ ▲** or **▼** button to choose **On** or **Off**.
- 6 When finished, press **MENU** repeatedly to remove the menus.



PARENTAL CONTROL/RATINGS

SET PASSWORD & LOCK SYSTEM

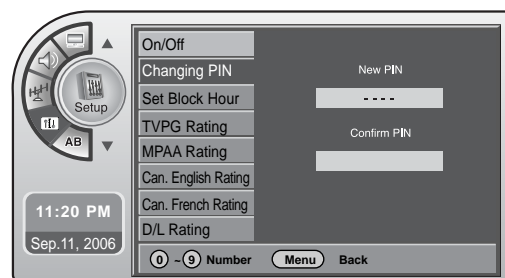
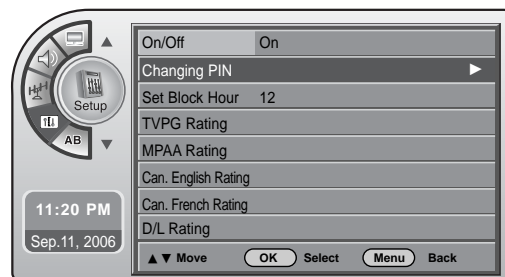
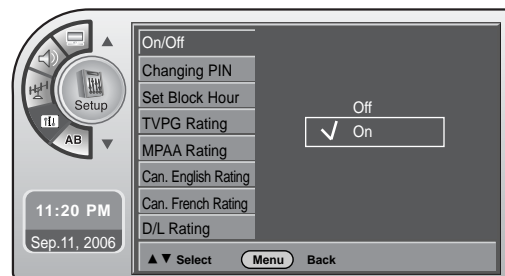
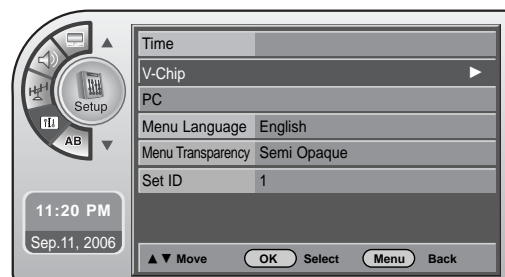
Entering a PIN (Password)

This option sets up or changes the password for blocking program ratings.

- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Setup** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to highlight **V-Chip** and press the **OK (Enter)** button.
- 3 Use the **ADJ ▲** or **▼** button to highlight **On/Off** and press the **OK (Enter)** button.
- 4 Use the **ADJ ▲** or **▼** button to highlight **On** and press the **OK (Enter)** button.
- 5 If a password has been entered, key it in using the number keypad. If no password has been set, enter the 4 digits password (0-9) using the remote control. This is the PIN. Each time the menu is entered, the password will be required until the block time expires. The TV is set up with the default password "0-0-0-0".
- 6 Use the **ADJ ▲** or **▼** button to highlight **Changing PIN** and press the **OK (Enter)** button.
- 7 Enter the digits password.
As soon as the 4 digits are entered, re-enter the same 4 digits on the **Confirm PIN**.
- 8 When finished, press **MENU** repeatedly to remove the menus.

! NOTE

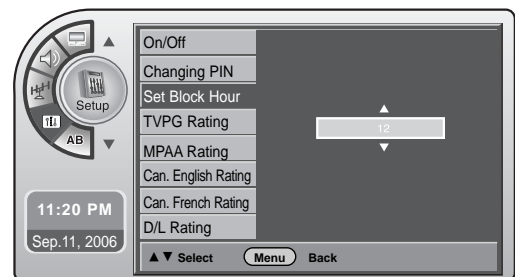
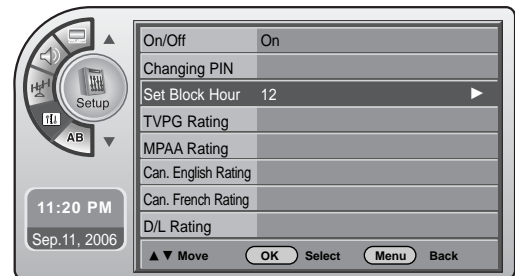
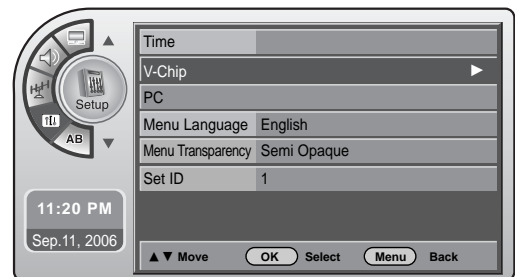
- If you ever forget your password, key in '7', '7', '7', '7' on the remote control.



PARENTAL CONTROL/RATINGS

Set Block Hour.

- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Setup** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to highlight **V-Chip** and press the **OK (Enter)** button.
- 3 Enter the 4 digits password.
- 4 Use the **ADJ ▲** or **▼** button to highlight **Set Block Hour** and press the **OK (Enter)** button.
- 5 Use the **ADJ ▲** or **▼** button to choose **1~12** hours and press the **OK (Enter)** button.
- 6 When finished, press **MENU** repeatedly to remove the menus.



MOVIE & TV RATINGS

TVPG Ratings

You can block programs based on the TV program rating.

- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Setup** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to highlight **V-Chip** and press the **OK (Enter)** button.
- 3 Enter the 4 digits password.
- 4 Use the **ADJ ▲** or **▼** button to highlight the **TVPG Rating** and press the **OK (Enter)** button.
- 5 Use the **ADJ ▲ ▼ ◀ ▶** buttons to choose and set up the menu options for **TVPG Rating**.
- 6 When finished, press **MENU** repeatedly to remove the menus.

Description of the TV (FCC) Rating Codes:

TV (FCC) Age Categories

TV-MA

Mature audiences only. This program may contain mature themes, profane language, graphic violence and explicit sexual content.

TV-14

Parents strongly cautioned. This program may contain sophisticated themes, sexual content, strong language and more intense violence.

TV-PG

Parental guidance suggested. The program may contain infrequent coarse language, limited violence, some suggestive sexual dialog and situations.

TV-G

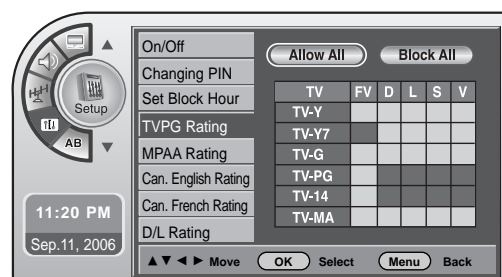
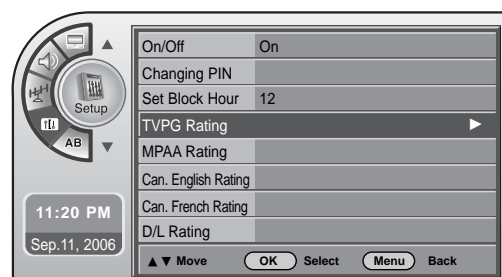
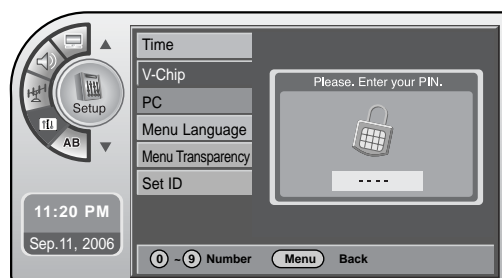
General audience. This contains little or no violence, no strong language, and little or no sexual dialog or situations.

TV-Y7

Directed for older children. Themes and elements in this program may include mild physical or comedic violence, or may frighten children under the age of seven.

TV-Y

All children. The themes and elements in this program are specifically designed for a very young audience, including children from ages two – six.



TV (FCC) Content Sub-Categories:

V Violence.

S Violence.

L Offensive language.

V Violence.

D Dialog...sexual innuendo.

FV Fantasy or cartoon violence.

PARENTAL CONTROL/RATINGS

MPAA Ratings

Restricting movies by their rating.

- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Setup** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to highlight **V-Chip** and press the **OK (Enter)** button.
- 3 Enter the 4 digits password.
- 4 Use the **ADJ ▲** or **▼** button to highlight the **MPAA Rating** and press the **OK (Enter)** button.
- 5 Use the **ADJ ▲ ▼ ◀ ▶** buttons to choose and set up the menu options for **MPAA Rating**.
- 6 When finished, press **MENU** repeatedly to remove the menus.

Description of the MPAA and TV (FCC) Rating Codes:

The MPAA Rating System (Movies)

G General Audience. No restrictions.

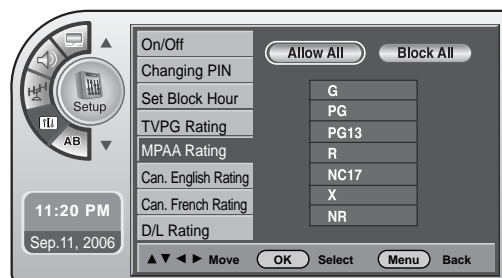
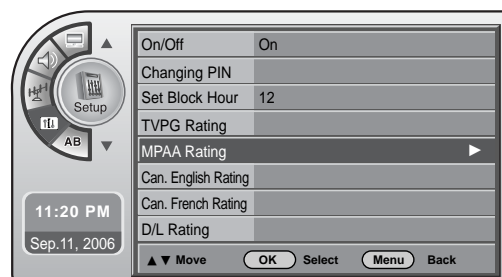
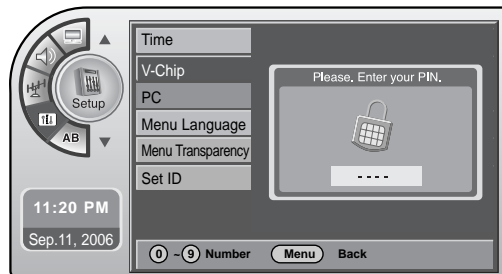
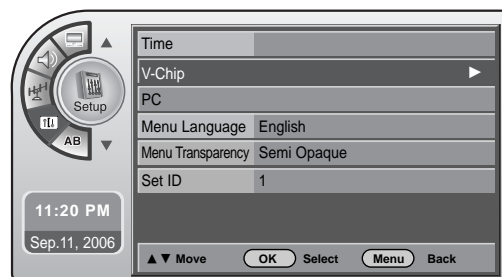
PG Children under 13 should be accompanied by an adult.

PG-13 Parental guidance suggested. Children under 13 should be accompanied by an adult.

NC-17 Not classified. Viewers should be 17 or older.

X Adults only.

- MPAA ratings: The selected rating will be locked. In addition, any ratings that are more restrictive will also be blocked.



Canadian English Ratings

- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Setup** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to highlight **V-Chip** and press the **OK (Enter)** button.
- 3 Enter the 4 digits password.
- 4 Use the **ADJ ▲** or **▼** button to highlight the **Can. English Rating** and press the **OK (Enter)** button.
- 5 Use the **ADJ ▲ ▼ ◀ ▶** buttons to choose and set up the menu options for **Can. English Rating**.
- 6 When finished, press **MENU** repeatedly to remove the menus.

Canadian English Ratings

E Expect No restriction.

C Children

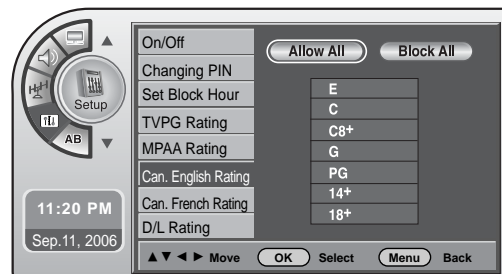
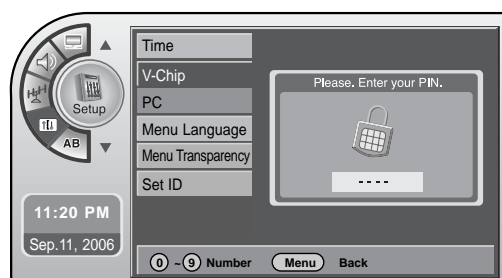
C8+ Viewers should be 8 or older.

G General Audience.

PG Parental guidance suggested. Children under 14 should be accompanied by an adult.

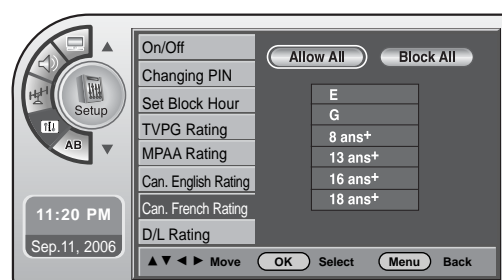
14+ Restricted. Viewers should be 14 or older.

18+ Restricted. Viewers should be 18 or older.



Canadian French Ratings

- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Setup** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to highlight **V-Chip** and press the **OK (Enter)** button.
- 3 Enter the 4 digits password.
- 4 Use the **ADJ ▲** or **▼** button to highlight the **Can. French Rating** and press the **OK (Enter)** button.
- 5 Use the **ADJ ▲ ▼ ◀ ▶** buttons to choose and set up the menu options for **Can. French Rating**.
- 6 When finished, press **MENU** repeatedly to remove the menus.



Canadian French Ratings

E Expect No restriction.

G For all

8+ Restricted. Viewers should be 8 or older.

13+ Restricted. Viewers should be 13 or older.

16+ Restricted. Viewers should be 16 or older.

18+ Restricted. Viewers should be 18 or older.

PARENTAL CONTROL/RATINGS

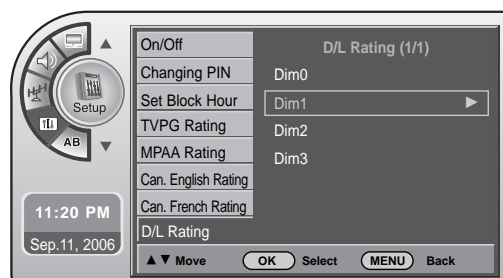
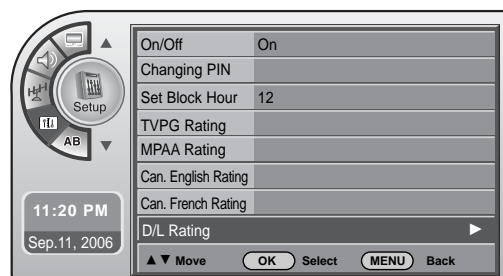
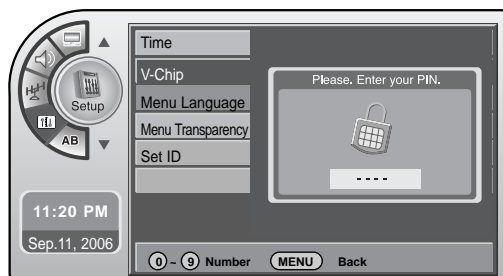
- **Lock menu-Downloadable Rating** in the CD manual is added by the information presented here.
Your TV's OSD (On Screen Display) may differ slightly from what is shown in this manual.

Downloadable Rating

- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Setup** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to highlight **V-Chip** and press the **OK (Enter)** button.
- 3 Enter the 4 digits password.
- 4 Use the **ADJ ▲** or **▼** button to highlight the **D/L Rating** and press the **OK (Enter)** button.
- 5 Use the **ADJ ▲** or **▼** buttons to choose **Dim0**, **Dim1**, **Dim2** or **Dim3** and press the **OK (Enter)** button.
- 6 Use the **ADJ ▲** or **▼** buttons to choose **D1L1**, **D1L2** or **D1L3**.
- 7 When finished, press **MENU** repeatedly to remove the menus.

! NOTE

- This function may become available in the future and will be available only for digital channel signal.
- This function operates only when TV has received Region5 Rating data.



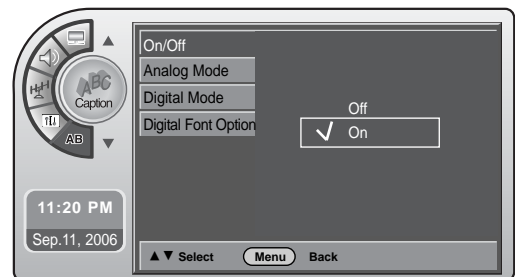
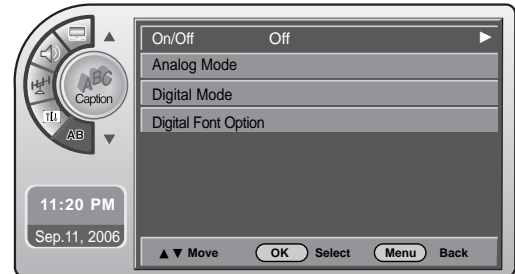
SOUND & LANGUAGE CONTROL

CAPTION / TEXT

Turn Captions On/Off

NOTE ▶ Pressing CC on the remote to select a captions option will also turn closed captions on.

- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Caption** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to highlight **On/Off** and press the **OK (Enter)** button.
- 3 Use the **ADJ ▲** or **▼** button to choose **On** or **Off**.
- 4 When finished, press **MENU** repeatedly to remove the menus.

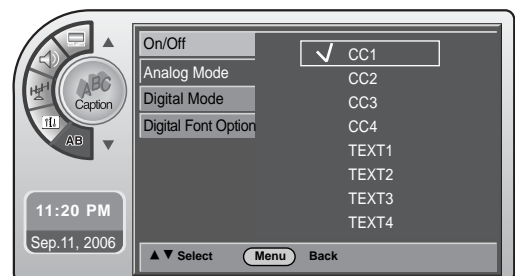
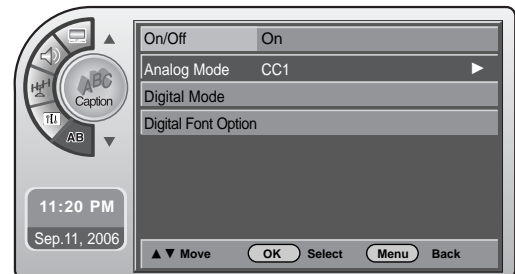


Analog Mode

Analog Captions will display on the screen whether the signal is from an RF channel or external equipment input.

NOTE ▶ Pressing CC on the remote selects a captions option.

- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Caption** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to highlight **Analog Mode** and press **OK (Enter)** button.
- 3 Use the **ADJ ▲** or **▼** button to choose **CC1-TEXT4** and press the **OK (Enter)** button.
- 4 When finished, press **MENU** repeatedly to remove the menus.



Mini glossary

CAPTIONS

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

TEXT

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

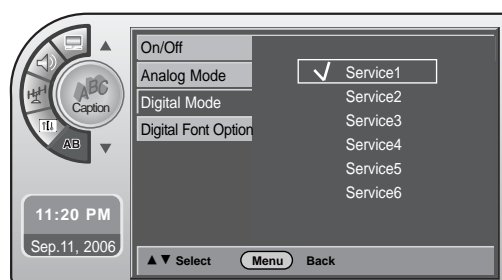
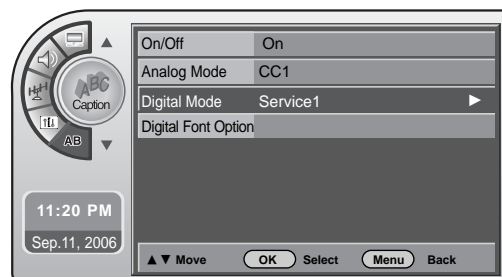
SOUND & LANGUAGE CONTROL

Digital Captions Mode

Digital Captions only appear on digital channels, tune in a digital channel that is actually broadcasting digital captions.

! NOTE ▶ Pressing CC on the remote selects a captions option.

- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Caption** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to highlight **Digital Mode** and press the **OK (Enter)** button.
- 3 Use the **ADJ ▲** or **▼** button to choose **Service 1-Service 6** and press the **OK (Enter)** button.
- 4 When finished, press **MENU** repeatedly to remove the menus.

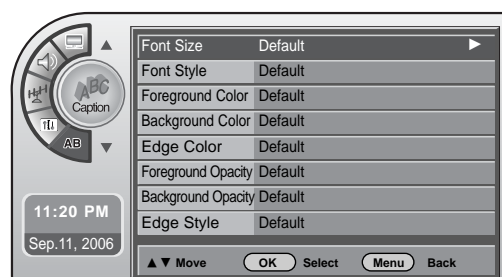
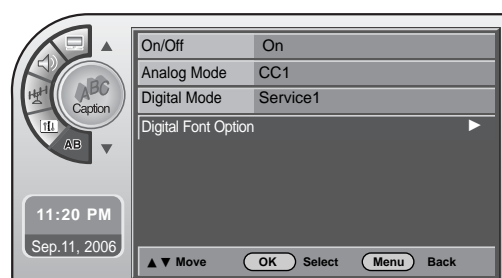


Digital Font Options

- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Caption** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to highlight **Digital Font Options** and press the **OK (Enter)** button.
- 3 Use the **ADJ ▲ ▼ ◀ ▶** buttons to customize each option: Font Size, Font Style, Foreground Color etc.
- 4 When finished, press **MENU** repeatedly to remove the menus.

! NOTE

- ▶ If the digital options custom settings are to be cloned, all menu options should be set to any option other than Default. If Default is left set for any one option, then all the options will be reset to default after cloning.

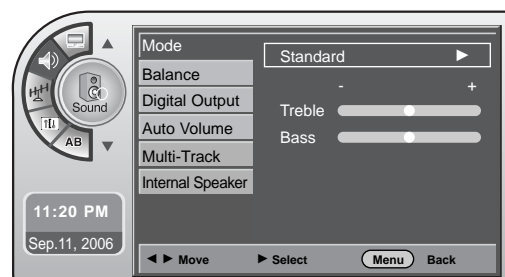
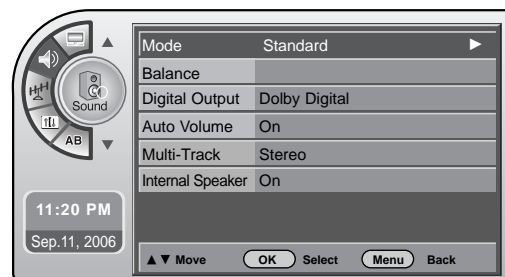


Preset Sound Settings

Match the sound mode to the program's character, Music, Movie, Sports, or News.

(This is Feature operates only in DTV mode.)

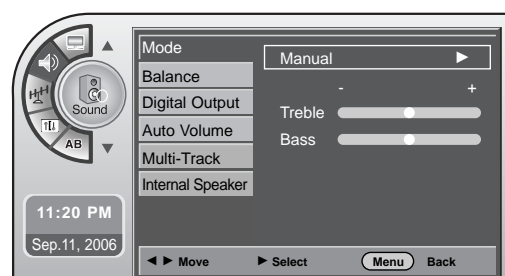
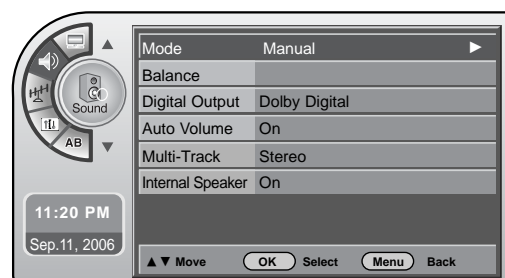
- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Sound** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to highlight **Mode** and press the **OK (Enter)** button.
- 3 Use the **ADJ ►** button to customize each option: or choose a preset mode like Music, Movie, etc.
- 4 When finished, press **MENU** repeatedly to remove the menus.



Sound Setting Adjustment-User Mode

Adjust the sound to suit your taste and room situations.

- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Sound** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to highlight **Mode** and press the **OK (Enter)** button.
- 3 Use the **ADJ ►** button to choose **Manual** and use **ADJ ▲ ▼ ◀ ▶** buttons to set your own settings for the options. When finished, press the **OK (Enter)** button.
- 4 When finished, press **MENU** repeatedly to remove the menus.

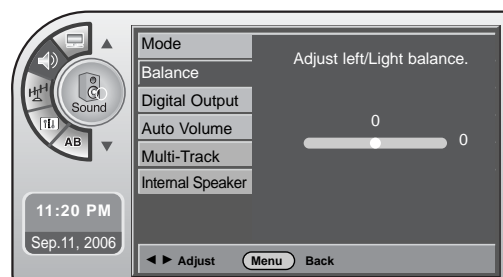
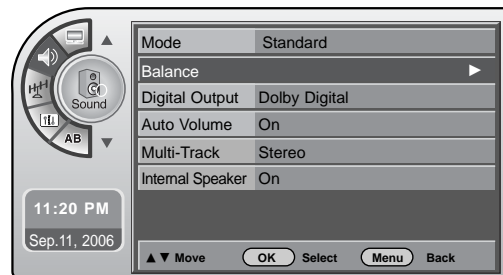


SOUND & LANGUAGE CONTROL

Sound Balance Setup

Adjust the speaker balance for optimum sound quality.

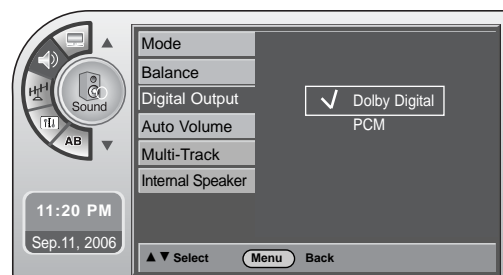
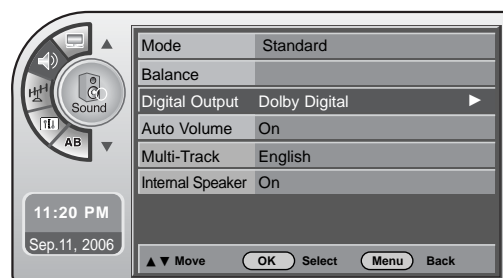
- 1 Press the **MENU** button and then use the **ADJ** ▲ or ▼ button to highlight the **Sound** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ** ▲ or ▼ button to highlight **Balance** and press the **OK (Enter)** button.
- 3 Use the **ADJ** ◀ or ▶ button to move the sound more to the Left or Right.
- 4 When finished, press **MENU** repeatedly to remove the menus.



Digital Audio Output Settings

Set the digital audio output as Dolby Digital or PCM.

- 1 Press the **MENU** button and then use the **ADJ** ▲ or ▼ button to highlight the **Sound** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ** ▲ or ▼ button to highlight **Digital Output** and press the **OK (Enter)** button.
- 3 Use the **ADJ** ▲ or ▼ buttons to choose **Dolby Digital** or **PCM**.
- 4 When finished, press **MENU** repeatedly to remove the menus.



<Dolby Digital>

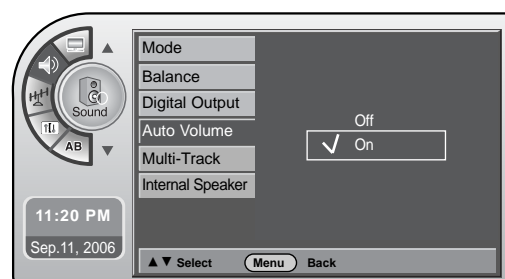
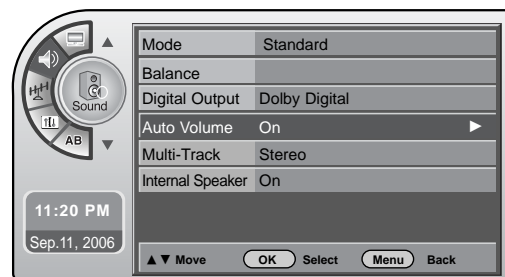


This product is under license of Dolby Laboratories. The "Dolby" or D symbol is a trademark of Dolby Laboratories.

Automatic Volume Control Settings

Have the TV automatically maintain the sound level between different channels.

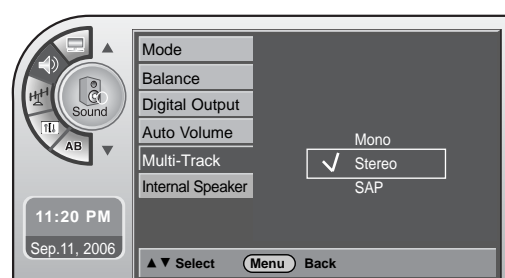
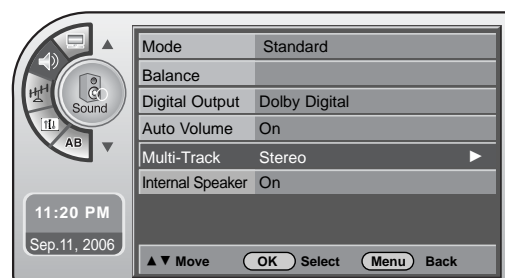
- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Sound** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to highlight **Auto Volume** and press the **OK (Enter)** button.
- 3 Use the **ADJ ▲** or **▼** button to choose **On** or **Off**.
- 4 When finished, press **MENU** repeatedly to remove the menus.



Analog Audio Settings

You can set analog audio settings.

- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Sound** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to highlight **Multi-Track** and press the **OK (Enter)** button.
- 3 Use the **ADJ ▲** or **▼** button to choose Mono, Stereo or SAP and press the **OK (Enter)** button.
- 4 When finished, press **MENU** repeatedly to remove the menus.

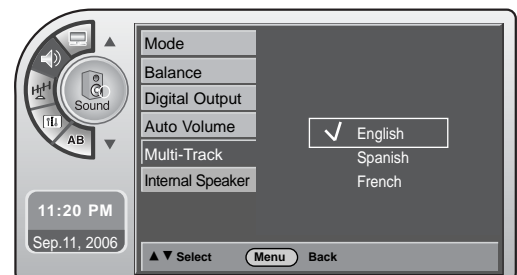
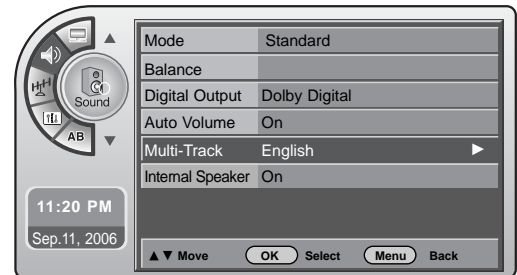


SOUND & LANGUAGE CONTROL

Digital Audio Language Settings

You can set digital audio language.

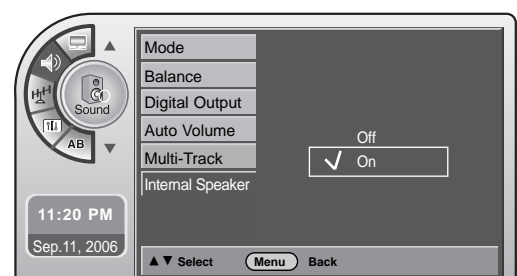
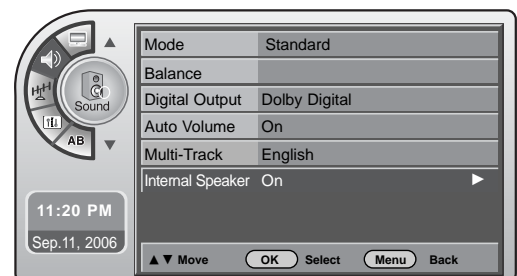
- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Sound** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to highlight **Multi-Track** and press the **OK (Enter)** button.
- 3 Use the **ADJ ▲** or **▼** button to choose English, Spanish or French and press the **OK (Enter)** button.
- 4 When finished, press **MENU** repeatedly to remove the menus.



Using External Speakers

Set the internal speaker to Off to listen to the TV through an external audio system, the TV sound will not be heard.

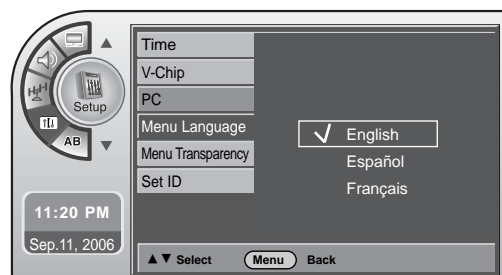
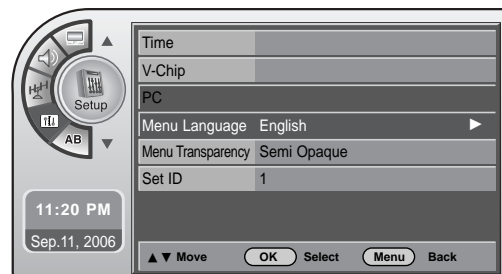
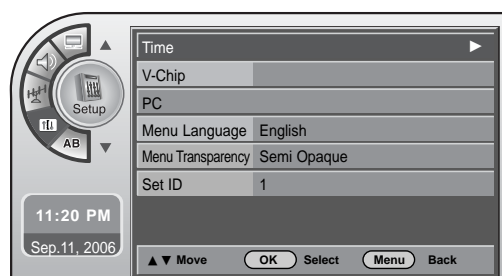
- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Sound** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to highlight **Internal Speaker** and press the **OK (Enter)** button.
- 3 Use the **ADJ ▲** or **▼** button to choose **On** or **Off** and press the **OK (Enter)** button.
- 4 When finished, press **MENU** repeatedly to remove the menus.



Menu Language

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

- 1 Press the **MENU** button and then use the **ADJ** ▲ or ▼ button to highlight the **Setup** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ** ▲ or ▼ button to highlight **Menu Language** and press the **OK (Enter)** button.
- 3 Use the **ADJ** ▲ or ▼ button to highlight and set the Menu Language: English, Español or Français.
- 4 When finished, press **MENU** repeatedly to remove the menus.

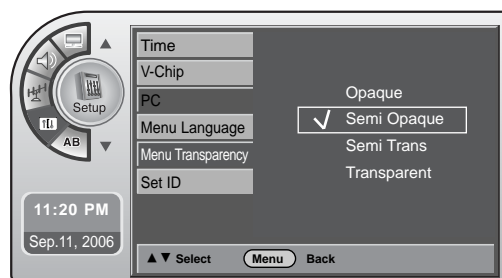
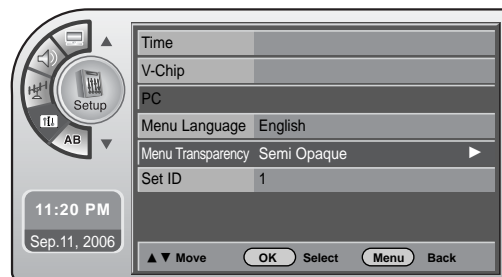


SOUND & LANGUAGE CONTROL

Menu Transparency Settings

Menu Transparency sets the background transparency of the menu.

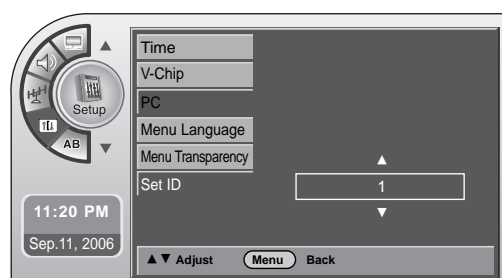
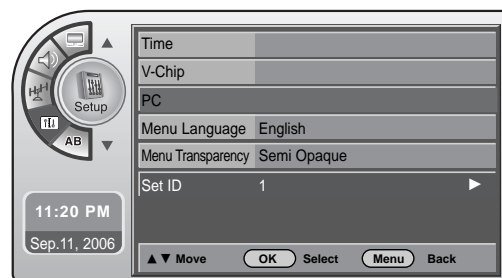
- 1 Press the **MENU** button and then use the **ADJ** ▲ or ▼ button to highlight the **Setup** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ** ▲ or ▼ button to highlight **Menu Transparency** and press the **OK (Enter)** button.
- 3 Use the **ADJ** ▲ or ▼ button to highlight and set the Menu Transparency: Opaque, Semi Opaque, Semi Trans, Transparent.
- 4 When finished, press **MENU** repeatedly to remove the menus.



Set ID

Use this function to specify a set ID number.

- 1 Press the **MENU** button and then use the **ADJ** ▲ or ▼ button to highlight the **Setup** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ** ▲ or ▼ button to highlight **Set ID** and press the **OK (Enter)** button.
- 3 Use the **ADJ** ▲ or ▼ button to adjust **Set ID** to choose the desired monitor ID number.
- 4 When finished, press **MENU** repeatedly to remove the menus.



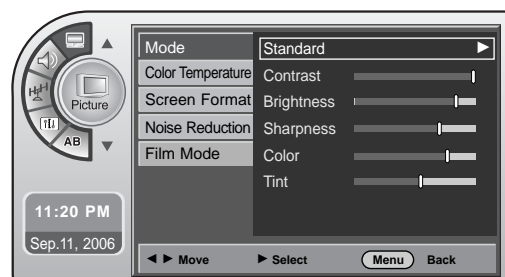
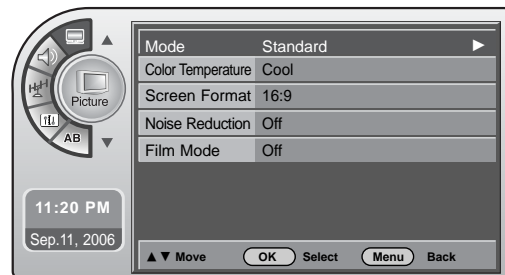
PICTURE CONTROL

PRESET PICTURE SETTINGS

Picture - Preset

Set the picture mode to the program content, e.g. Dynamic or Mild etc.

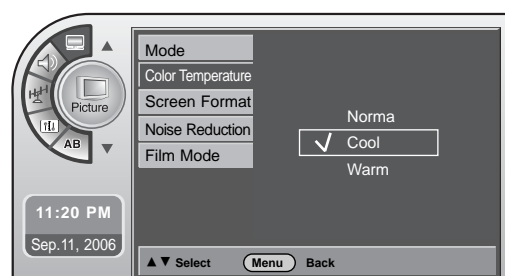
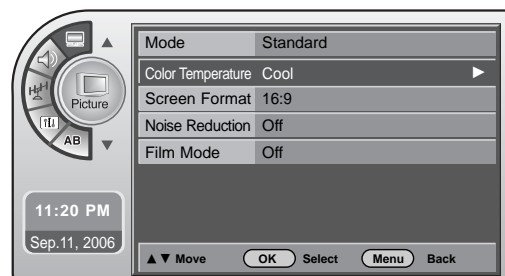
- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Picture** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to highlight **Mode** and press the **OK (Enter)** button.
- 3 Use the **ADJ ►** button to choose a preset picture setup. When finished, press the **OK (Enter)** button.
- 4 When finished, press **MENU** repeatedly to remove the menus.



Color Temperature Settings

Choose one of three automatic color adjustment.

- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Picture** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to choose **Color Temperature** and press the **OK (Enter)** button.
- 3 Use the **ADJ ▲** or **▼** button to choose Normal, Cool or Warm. When finished, press the **OK (Enter)** button.
- 4 When finished, press **MENU** repeatedly to remove the menus.

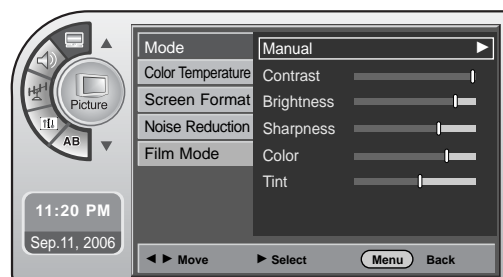
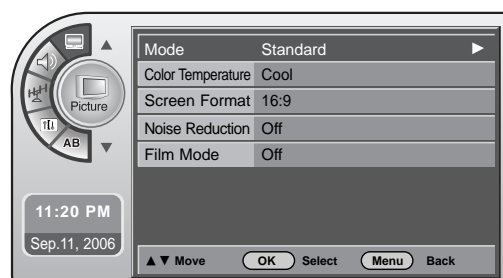


PICTURE CONTROL

Manual Picture Adjustment

To make custom picture settings, set the Mode to Manual on the menu. Use the Manual settings for the best presentation of movies. The patient will then be able to view movies with more realism.

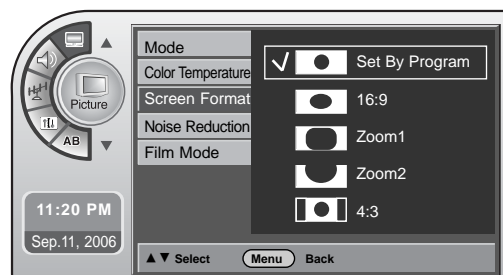
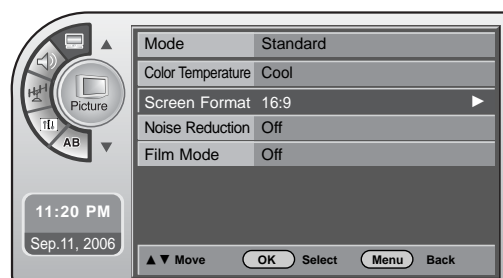
- 1 Press the **MENU** button and then use the **ADJ** ▲ or ▼ button to highlight the **Picture** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ** ▲ or ▼ button to highlight **Mode** and press the **OK (Enter)** button.
- 3 Use the **ADJ** ► button to choose **Manual** and use **ADJ** ▲ ▼ ◀ ▶ buttons to set your own settings for the options. When finished, press the **MENU** button.
- 4 When finished, press **MENU** repeatedly to remove the menus.



Screen Format Adjustments

The user can choose preset formats for the picture on analog channels.

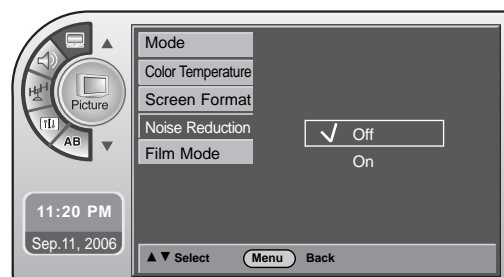
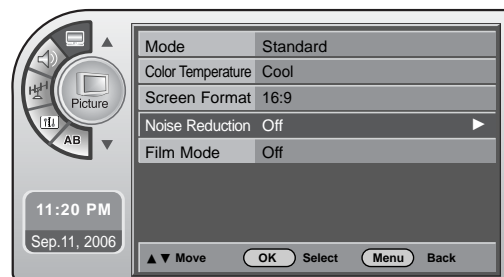
- 1 Press the **MENU** button and then use the **ADJ** ▲ or ▼ button to highlight the **Picture** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ** ▲ or ▼ button to highlight **Screen Format** and press the **OK (Enter)** button.
- 3 Use the **ADJ** ▲ or ▼ buttons to choose a preset screen format: Set By Program, 16:9, Zoom1, Zoom2 or 4:3. When finished, press the **OK (Enter)** button.
- 4 When finished, press **MENU** repeatedly to remove the menus.



Noise Reduction

The user can watch movies with a more realistic picture on analog channels.

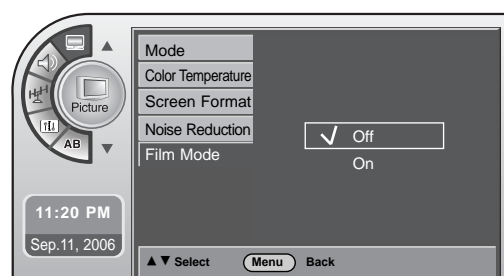
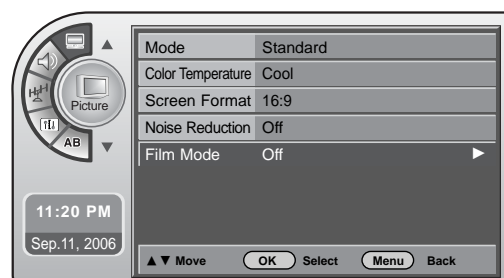
- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Picture** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to choose **Noise Reduction** and press the **OK (Enter)** button.
- 3 Use the **ADJ ▲** or **▼** button to choose **On** or **Off**. When finished, press the **OK (Enter)** button.
- 4 When finished, press **MENU** repeatedly to remove the menus.



Film Mode Options

The user can watch movies with a more realistic picture on analog channels. Turn Film Mode On to view movies with optimum preset picture settings.

- 1 Press the **MENU** button and then use the **ADJ ▲** or **▼** button to highlight the **Picture** menu and press the **OK (Enter)** button.
- 2 Use the **ADJ ▲** or **▼** button to choose **Film Mode** and press the **OK (Enter)** button.
- 3 Use the **ADJ ▲** or **▼** button to choose **On** or **Off**. When finished, press the **OK (Enter)** button.
- 4 When finished, press **MENU** repeatedly to remove the menus.



COMMERCIAL MODE

INSTALLER OVERVIEW

Following is the Commercial Mode Operation Setup.

Operating Installer Menu

To set up the controls for the TV you will need to know how to enter the 26LH1DC3/4/5 Installer menu and make changes to the default values as required. If necessary, familiarize yourself with the 26LH1DC3/4/5 Installer menu and how to make and save changes in the menu.

Optional Installer Remote

You will need an Installer remote control similar to the one shown to the right.

The TV's clonable features need to be set up before 2-5-5 + Menu is done.

This is a critical step.

If the Master TV display panel's clonable features like: Clock Set, adding channel icons and channel labels, etc. are not done properly, then the cloned 26LH1DC3/4/5 TVs will all have problems. For example, do not do 2-5-5 + Menu more than once or the TV setup will become corrupted. If you need to start the procedure over, then begin by setting installer item 117 to 001, and pressing Enter to reset the TV to default values in the installer menu. You can do 2-5-4 + Menu mode more than once but this mode is limited to only editing channel icons and channel labels.

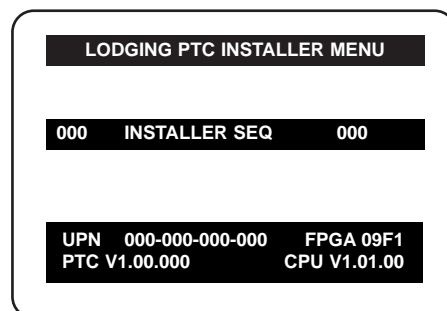
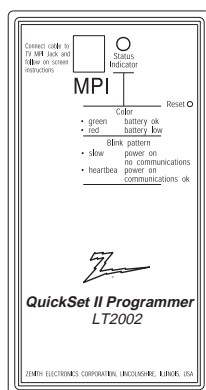
Refer to the appropriate section in the Manual for other TV features: Picture, Sound etc.

**Note: Digital Font options are available only after a channel search has been run and when the TV is tuned to an active digital channel with digital captions.*

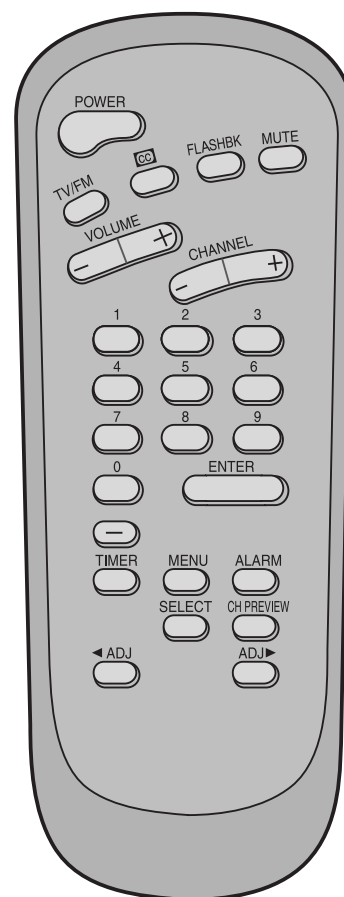
LT2002 Clone Programmer

As the cloning procedure is being performed, specific steps need to

be done at the indicated times to achieve the desired result. Be sure to do each cloning task as indicated. If a procedure or step is left out or not performed correctly, then the TV setup will be wrong and cloning may not work. At each step, pay attention to assure the TV screen shows the proper message(s) when cloning. If the message indicated does not appear, there is a problem with that step and cloning may not be successful. Cloning is only possible when the signal source is an Analog channel, not a digital channel.



Typical Installer Menu



COMMERCIAL MODE SETUP

This page provides an overview of the TV configuration. See the pages listed below for more specific, detailed instructions at each step; how to access and use the Installer menu etc.

**Note1: Disconnect all Aux inputs. Under certain conditions, Auto Program (Channel search) is disabled if there is an Aux input active.*

**Note2: Under certain conditions, changes to the input mode of the RGB inputs will not take effect until the power is cycled (TV is turned Off and On). To avoid confusion, disconnect all RGB inputs before entering the Installer menu.*

Overview: Commercial Mode Setup Procedure

1. Set Installer Menu Items

(Enter Installer Menu, see page 42 for detailed instructions.)

- Set Installer menu item **117 FACT DEFAULT**, to **001** and press **ENTER**. (This clears all installer menu items, custom settings, channel labels/icons and reloads the factory default settings.)
- Set Item **003 BAND/AFC**.
 - **Broadcast**: set to **000**. - **HRC**: set to **002**
 - **CATV**: set to **001**. - **IRC**: set to **003**
- Set item **028 CH OVERRIDE** to **001**. This allows access to Auto Program, Channel Labels and Channel List options in the Channel Menu.
- Set other particular installer items that affect your TV programming network. See pages 57 - 62.
- After all required installer menu item settings have been adjusted, press **ENTER** on the remote to remove Installer Menu.

2. Set Up TV Features

(See Picture, Sound, Setup menus etc. See TV Clonable options list on page 62.)

**Note: Digital Font options are only available after a channel search has been run and when the TV is tuned to an active digital channel with digital captions.*

3. Run Auto Program

(Search for all available channels.) Go to the Channel menu and access the Auto Program option, follow on-screen instructions.

- Edit Channel Scan. In the Channel Menu, access the Channel List menu.
 - Delete channels per your system requirements: do you want to delete any free channels so the guest cannot access them?
 - Add familiar Channel Icons like ABC, CBS, NBC etc. to the channel onscreen display. Add identifiable labels for the end user to readily know what common networks are available. In the Channel menu, select the Channel Label option, follow instructions on the bottom of the screen.

4. Transfer TV Setup to Controller Box: 2-5-5 + Menu

After the TV channel scan has been edited and channel label icons added, enter the Installer menu. Once in the Installer menu, press 2-5-5 and MENU on the remote. This transfers the TV setup to the internal controller box.

**Note: Only do 2-5-5 + MENU once or TV setup may be corrupted.*

TV scans available channels and exits menu when transfer to controller is complete.

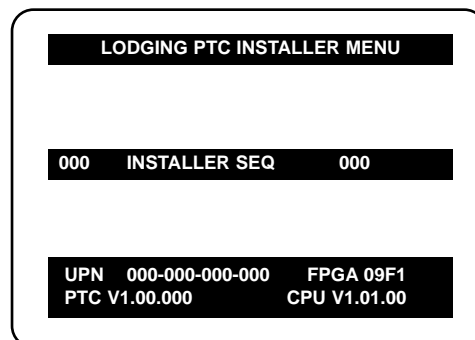
5. Perform Adding Custom Channel Labels: 2-5-4 + Menu Mode

Enter Installer menu, press 2-5-4 and Menu. Add your own custom labels to the channel on-screen displays. (See page 62.) To remove menu press MENU.

**Note: 2-5-4 + MENU can be performed more than once.*

Verify TV Setup

At this point, verify that the channel lineup, channel icons and custom labels are correct. Make sure the TV features are set per your requirements. Set item **028 CH OVERRIDE** to **000** to lock the channel scan. After the preceding has been completed, the Master TV setup is ready to be copied to the LT2002 Clone Programmer, see next page.



L26W56XA Installer Menu

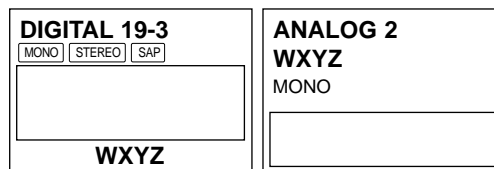
117	FACT DEFAULT	00X
003	BAND/AFC	00X
028	CH.OVERRIDE	001
073	CH. NOT AVBLE	001

L26W56XA Installer Menu Items

RJP (Remote Jack Pack) TV Setup

004	STRT CHANNEL	XXX
040	AUTO CAMPORT	000
093	RJP AVAILABLE	001

- RJP Available? If you will use an RJP in your system, review installer items:
 - 004 Start Channel cannot be set to 000.
 - Set 040 Auto Campport to 000.
 - Set 093 RJP Available to 001.



Custom Channel Label 'WXYZ' created in 2-5-4 + Menu Add Channel Label Mode

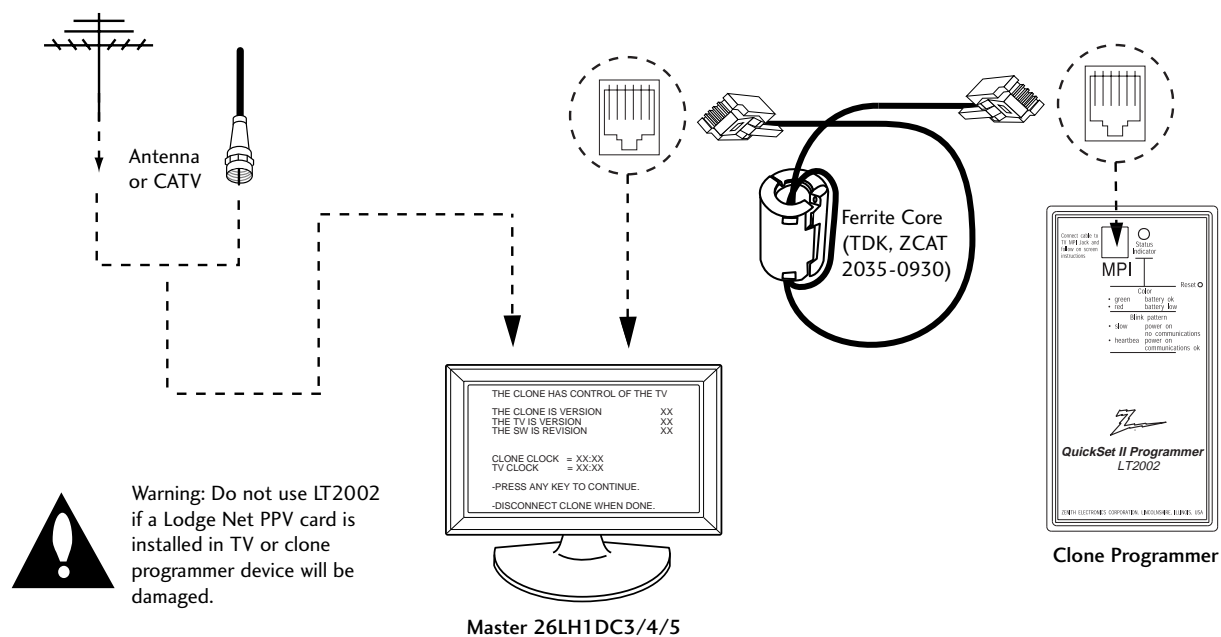
028	CH. OVERRIDE	000
-----	--------------	-----

After TV setup has been verified, set item 028 Ch Override back to 000.

COMMERCIAL MODE

CLONING CONNECTIONS/LEARNING SETUP

- Connections for the LT2002 Clone Programmer to Learn the 26LH1DC3/4/5 Master TV Setup



**Note1: It is assumed that the 26LH1DC3/4/5 is connected to a signal source, the source selected is Antenna (RF) In, the signal is from an Analog channel, not a digital channel, all equipment is connected to power and turned on and the LT2002 Clone Programmer main menu (THE CLONE HAS CONTROL OF THE TV) menu is displayed on the TV screen, the clone programmer LED is blinking the required heart beat pattern, see above and next page.*

**Note2: Once the clone is connected, do not touch the unit or otherwise disturb it or the MPI connections. Any disturbance while the clone is operating may disrupt the master setup transfer or copying etc.*

Before you begin cloning...

- The Master 26LH1DC3/4/5 should be connected to a good, stable signal from an over-the-air antenna or cable service Analog channel and connected to power. (See above.)
- Teaching and Learning is only possible between identical model devices. (However, the LT2002 Clone programmer can store up to 3 different 'master' setups.)
WARNING: Copying a blank or incorrect memory into a TV, STB or other device will cause the TV, STB or other device to operate erratically or become inoperable.
- Use an Installer's remote to operate Learning and Teaching menus.
- Make sure that the batteries in the Clone programmer are fresh.
- If batteries are removed, the Clone Clock time will be lost.
- Decide if you want to set the time from the Clone

programmer TV which has the clock set to the current time.

- Setting the time and transferring it to the Clone or other device is a separate procedure.
- Follow the connection diagram above to connect the Clone to a Master 26LH1DC3/4/5 TV display panel. After learning is complete, to another identical 26LH1DC3/4/5 TV display panel to "teach" it the master setup.
- After the 26LH1DC3/4/5s setup has been copied to another identical 26LH1DC3/4/5, that identical unit with the copied setup, needs to be disconnected from power for about 15 seconds to activate the newly-copied setup.
- See the Clone Troubleshooting section to resolve problems.

Turn to the next page to continue Cloning Setup.

CLONE PROGRAMMER LEARNING SETUP

Learning the Master TV Setup

Instructions for the Clone Programmer to Learn the Master 26LH1DC3/4/5 Setup.

Use MPI Cable to Connect LT2002 Clone Programmer to Master 26LH1DC3/4/5 MPI Port

If there is a good connection, "THE CLONE HAS CONTROL OF TV" message will appear. Press any button on the Installer remote.

Learn Setup from Master 26LH1DC3/4/5

Press 1 to select the "LEARN FROM TV" option, then press ON/OFF, POWER, or ENTER to go to the Memory Bank Selection Menu. Pick the Memory "Bank" you want to store the master 26LH1DC3/4/5's setup in by pressing either Channel button repeatedly to choose Memory 1, 2 or 3. (If you choose a Memory "Bank" that has a master device's setup programmed into it, that setup will be overwritten by the new master 26LH1DC3/4/5's setup.) Once the Clone memory bank is selected, press ON/OFF, POWER, or ENTER. The Clone memory bank you have selected will be shown. Press ON/OFF or POWER to begin copying the master 26LH1DC3/4/5's setup.

Set the Clock (Optional)

Set the time on a Master TV's Clock. (If the time has already been copied from a TV into the Clone programmer, you can set a master TV's clock by copying the time from the Clone programmer.) The Clone Programmer can copy the current time to both a master TV and to the Clone's internal clock; accurate to within one minute. (Another reason that the Clone programmer should be equipped with fresh, high-quality alkaline batteries, is for it to keep the time as accurately as possible.)

Since the Clone Programmer's time cannot be set directly, the current time needs to be copied from a LG TV equipped with M.P.I. input capability.

After the time is copied to the Clone programmer, the current time can then be transferred to another TV. (This can be a master TV, or another TV which has already had the features set up.)

**Note: When using the clone programmer for teaching or learning, be sure that the heartbeat pattern is shown on the LEDs. Both learning and teaching should take about 45 or more seconds depending on the complexity of the master setup. While the clone is functioning, do not move it or otherwise disturb the clone or wiring connections. If the clone finishes the function in less than 45 seconds, redo the function again. Press the reset button if the clone does not act normally.*

THE CLONE HAS CONTROL OF THE TV

THE CLONE IS VERSION XX
THE TV IS VERSION XX
THE SW IS REVISION XX

CLONE CLOCK= XX:XX
TV CLOCK= XX:XX

-PRESS ANY KEY TO CONTINUE.

-DISCONNECT CLONE WHEN DONE.

This menu should appear by itself after the LT2002 is connected to the 26LH1DC3/4/5 MPI port.

CLONE SELECTION MENU

- (1) LEARN FROM TV
- (2) TEACH TO TV
- (3) SET CLONE CLOCK FROM TV
- (4) SET TV CLOCK FROM CLONE
- (5) DISPLAY TV SETUP
- (6) DISPLAY CLONE SETUP

- TO CHANGE MENU ITEMS, PRESS CHANNEL KEYS OR DIGITS.
- TO EXECUTE ITEM, PRESS ON/OFF, POWER, OR ENTER

LT2002 Clone Programmer Communication Problems

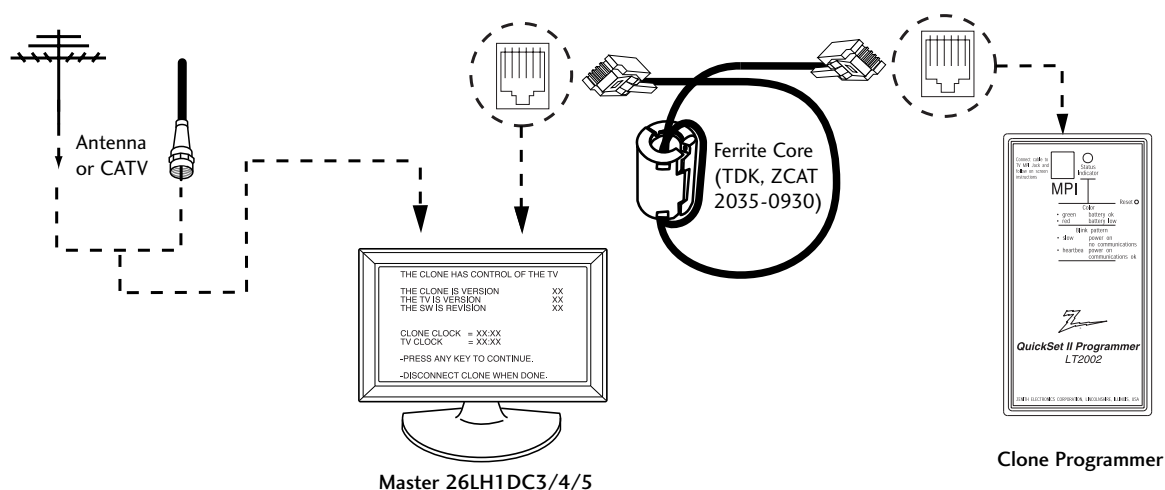
- A slow flashing green light indicates there are communication problems between the 26LH1DC3/4/5 and the LT2002 clone programmer. If this is the case, check for a damaged cable, poor contacts, or other connection troubles.
- If the status indicator is red, the programmer batteries are low and should be replaced. Install 4 high-quality alkaline AA batteries.

COMMERCIAL MODE

CLONING CONNECTIONS/TEACHING SETUP

Teaching the Master Setup to Another 26LH1DC3/4/5

- Connections for the LT2002 to Teach another 26LH1DC3/4/5 the Master Setup



Teach Master 26LH1DC3/4/5's Setup to the target 26LH1DC3/4/5

After learning is complete, remove the M.P.I. cable from the master 26LH1DC3/4/5 and connect it to the target 26LH1DC3/4/5 that you want to copy the master 26LH1DC3/4/5's setup into. With "THE CLONE HAS CONTROL OF TV" message displayed, press 2 to go to the "TEACH TO TV" option, press ON/OFF, POWER, or ENTER. Select the LT2002 memory that the new setup is in. Press On/Off to transfer the new setup and other information to the new 26LH1DC3/4/5. Teaching usually takes 2-3 minutes.

After the "TEACHING COMPLETE" message is displayed, press any button to return to the Clone menu, then press ON/OFF, POWER, or ENTER. If finished, detach M.P.I. cable from the target, newly cloned 26LH1DC3/4/5.

Disconnect 26LH1DC3/4/5 Power for 15 Seconds

Unplug the AC power cord of the newly cloned 26LH1DC3/4/5 from the power outlet for about 15 seconds to activate the newly copied setup.

CLONE SELECTION MENU

- (1) LEARN FROM TV
- (2) TEACH TO TV
- (3) SET CLONE CLOCK FROM TV
- (4) SET TV CLOCK FROM CLONE
- (5) DISPLAY TV SETUP
- (6) DISPLAY CLONE SETUP

- TO CHANGE MENU ITEMS, PRESS CHANNEL KEYS OR DIGITS.
- TO EXECUTE ITEM, PRESS ON/OFF, POWER, OR ENTER

This menu should appear after any key is pressed on the Installer remote.

TEACHING IN PROGRESS,

PLEASE WAIT

This display will appear during Teaching function.

TEACHING COMPLETE

This display will appear after Teaching is complete.

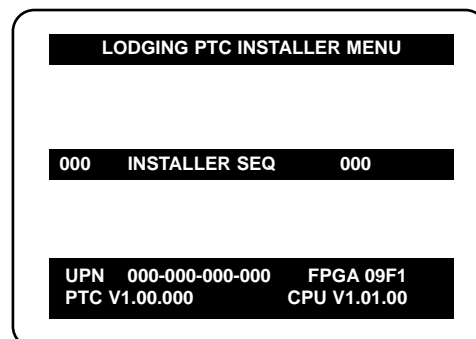
- Use the Installer's Menu to set up or change operational settings.

See more detailed descriptions of the Installer menu items on the following pages...

Accessing the Installer's Menu

Make sure TV is on. Installer's menu items can be accessed by using an installer's remote control. Just press MENU repeatedly (at least 10 times) until the TV seems to stop responding, then press 9, 8, 7, 6, then ENTER to access the Installer's menu. To remove the Installer's menu, press ENTER again. Any changes you make will be stored in nonvolatile memory. (The menu also disappears automatically.)

The Installer's menu opens with item 000 INSTALLER SEQ 000. Use the Up/Down arrow buttons to sequence through the available menu items. Or, access an item directly by keying in the line number, then pressing MENU. For example, to access the Sleep Timer option which is item 015, press 0-1-5, then MENU. To change a setting, use the Left/Right arrow buttons. Or, enter a value directly.



Typical Installer Menu

Using the Installer's Menu

Items 000 ~ 117 are immediately accessible only upon entering the Installer's Menu. Their numbers, descriptions, ranges, factory default settings, and a place for listing any changes made on-site are given below and on the following pages.

Installer Menu Items 000 through 117

Menu Item	Function	Value Range	Default Value	Brief Description of Function and Comments
000	INSTALLER SEQ	0 ~ 3	0	Leave default set to 0.
001	POWER MANAGE	0 ~ 7	0	Sets number of hours of no activity before auto shut Off.
002	AC ON	0 / 1	0	Set to 1 to enable auto turn On at power up.
003	BAND/AFC	0 ~ 3	1	Selects Tuning Band: 0=Broadcast, 1=CATV, 2=HRC, 3=IRC
004	STRT CHANNEL	0-125, 126, 127, 255	255	Channel at turn-on (Set 255 to return to last channel before power Off).
005	CHAN LOCK	0 / 1	0	If set to 1, cannot tune from current channel.
007	STRT VOLUME	0 ~ 63, 255	255	Sets Volume level at TV turn-on (Set 255 to retain last volume level).
008	MIN VOLUME	0 ~ 63	0	Sets minimum allowable volume setting.
009	MAX VOLUME	0 ~ 63	63	Sets maximum allowable volume setting.
010	MUTE DISABLE	0 / 1	0	Set to 1 to disable mute function.
011	KEY DEFEAT	0 / 1	1	Set to 1 to disable menu navigation keys on display panel.
015	SLEEP TIMER	0 / 1	1	Set to 1 to enable Sleep Timer.
016	EN TIMER	0 / 1	0	Set to 1 to enable On/Off Timers.
017	ALARM	0 / 1	1	Set to 1 to enable Alarm.
021	V-CHIP	0 / 1	1	Set to 1 to enable V-Chip functions.
022	MAX BLK HRS	0 ~ 99	12	Sets number of V-Chip (Parental Control) blocking hours.
023	CAPTION LOCK	0 / 1	0	Set to 1 to retain caption setting at power Off.
028	CH. OVERRIDE	0 / 1	1	If set to 0, limits direct access to favorite channels.
029	OLD OCV	0 / 1	0	Set to 1 to change M.P.I. operation to OCV.
030	ACK MASK	0 / 1	0	If set to 1, changes M.P.I. for some OCV boxes.
031	POLL RATE	20 ~ 169	94	Selects poll rate for M.P.I.
03	TIMING PULSE	186 ~ 227	207	Sets baud rate for M.P.I.
034	CAMPORT EN	0 / 1	1	Set to 1 to enable Video 2 input.

COMMERCIAL MODE

INSTALLER MENU

- Installer Menu Items 035 through 117

Menu Item	Function	Value Range	Default Value	Brief Description of Function and Comments
035	COMPPORT EN.	0 / 1	1	Set to 1 to enable HDMI. Set to 0 to disable.
038	YPrPb EN.	0 / 1	1	Set to 1 to enable display panel Component 1 input jacks.
039	REAR AUX EN	0 / 1	1	Set to 1 to enable display panel Video 1 input jack.
040	AUTO CAMPORT	0 / 1	1	Set to 1 to automatically switch to Camport.
046	STRT AUX SRCE	1 ~ 7, 255	255	Sets the starting AUX source.
047	AUX STATUS	0 / 1	0	Set to 1 for M.P.I. AUX source to be reported as a channel number instead of Channel 0.
053	DIS. CH-TIME	0 / 1	0	Set to 1 to disable Channel-Time display.
069	EN. CH-T COL.	0 / 1	1	Set to 1 to enable custom color for the Channel-Time display.
070	FOR. CH-TIME	0 ~ 7	2	Chooses custom foreground color for the Channel-Time display.
071	BCK. CH-TIME	0 ~ 7	2	Chooses custom background color for the Channel-Time display.
073	CH NOT AVBLE	0 / 1	0	If set to 1 and channel override is 0, "NOT AVAILABLE" message is displayed when directly accessing a channel not in the favorite channel list.
075	REVERT CH	0 / 1	0	If set to 1 and loss of M.P.I. communication occurs, TV tunes to Start Channel.
078	UPN MSB	0 ~ 255	0	User programmable number, most significant byte.
079	UPN MSB-1	0 ~ 255	0	User programmable number, most significant byte - 1.
080	UPN MSB-2	0 ~ 255	0	User programmable number, most significant byte - 2.
081	UPN LSB	0 ~ 255	0	User programmable number, least significant byte.
082	CHKSM ERROR	0 / 1	1	Enforces rigid M.P.I. checksum.
083	HANDSHK TIME	0 ~ 5	5	Relaxes M.P.I. timing to be compatible with PC based Windows-controlled systems.
084	PERMANENT BLK	0 / 1	0	Removes block hours setting for Parental Control and makes block permanent.
087	REAR RGB EN.	0 / 1	1	Enables RGB1 input. Set to 1 to enable, set to 0 to disable.
088	EN NOISE MUTE	0 / 1	1	If set to 1, mutes audio if no signal is present.
090	KEY LOCK	0 / 1	0	If set to 1, keyboard is locked out, IR is still functional.
091	YPrPb2 EN.	0 / 1	1	Set to 1 to enable Component 2 input jacks.
092	RGB2 ENABLE	0 ~ 2	2	Enables Video 3 input. Set to 1 for Composite Video or 2 for S-Video. Set to 0 to disable.
093	RJP AVAILABLE	0 / 1	0	Set to 1 to enable.
094	SAP MENU EN	0 / 1	1	Set to 0 to disable feature on Function menu. Set to 1 to enable feature on Function menu.
096	DEF. ASP. RATIO	0, 1, 2, 4, 5	2	Sets default aspect ratio at power up. See detailed descriptions and item 106.
102	ATSC BAND	0 ~ 4	4	Selects ATSC band.
103	ATSC TUNE MODE	0 / 1	1	Sets ATSC tuning mode. Set to 0 for virtual channels, set to 1 for physical channels.
104	START MINOR CH	0 ~ 255	0	Selects Minor start channel. Set 0 for NTSC. Not 0, sets Minor channel number.
106	ASP RATIO LOCK	0 / 1	0	To retain set aspect ratio on power cycle, set to 1. Set to 0 for default ratio on power cycle.
107	BANNER SELECT	N/A	N/A	Not applicable.
116	VIDEO MUTE EN	0 / 1	0	Set to 0 for normal, set to 1 for Blank.
117	FACT DEFAULT	0 / 1	0	0=Normal. 1=Loads factory default presets of all above settings.

INSTALLER MENU

Detailed Descriptions of Installer Menu Items

000 - INSTALLER SEQUENCE

Specifies entry sequence to the Installer Menu.

0 = 9876 1 = 4321
2 = 1478 3 = 3698

001 - POWER MANAGE (Power Management)

Determines hours of no activity before automatic shutoff. The POWER MANAGE function is for saving energy. If set to 0, Power Manage is Off. Settings range from 0 - 7, with 1 - 7 representing the hours that the TV will remain On, unless there has been activity from either the control panel or remote control.

002 - AC ON (AC Power Switchable)

If set to 1, allows the 26LH1DC3/4/5 to turn On just by applying AC power. Pressing the On button is not necessary. This is desirable if the 26LH1DC3/4/5 is plugged into a cable box or a power outlet controlled by a wall switch. Use ADJ Left/Right arrow to choose 0 or 1 where 0 is the default is Off, and 1 is On.

**Note: If set to 1 (On), the 26LH1DC3/4/5 does not respond to On/Off commands from either the remote or the display control panel, and the SLEEP TIMER is also nonfunctional.*

003 - BAND/AFC (Band/Automatic Frequency Control)

Selects the tuning band. There are 4 possible settings for this option:

0 = Broadcast 1 = CATV
2 = HRC 3 = IRC

If some channels were not found by Auto Program, select the appropriate Band setting here and add the channels using the Channel List option in the Channel Menu.

004 - STRT CHANNEL (Start Channel)

If active, this function allows you to determine the initial channel number when the 26LH1DC3/4/5 is turned On. This feature is useful for an in-house information channel, since the 26LH1DC3/4/5 would always select that channel when it is turned On. Setting this to 255 causes the last channel viewed when the 26LH1DC3/4/5 was turned Off, to be the tuned to channel when the 26LH1DC3/4/5 is turned On again.

255 = Last channel 1-125 = Ch X 0 = Aux
126 = Map to Channel 3. 127 = Map to Channel 4.

**Note: Item 004 STRT CHANNEL cannot be set to 0 if item 093 RJP AVAILABLE is set to "1".*

005 - CHAN LOCK (Channel Lock)

CHAN LOCK is ideal if the system must always be on the same channel. Changing channels with Channel Up/Down or keypad numbers is impossible. Channel Lock is inactive if set to 0 (default).

Generally, this feature is used in connection with START CHANNEL (Installer item 004) where the start channel may, for example, be set to 3 or 4. If the start channel is 3, then the 26LH1DC3/4/5 will remain locked on Channel 3.

**Note: For Items 007, 008 and 009*

For legacy reasons, the scale used is 0 - 63. The PTC software will translate this to the 0 - 100 scale used by the TV.

To translate a TV volume level to the installer menu value, use the following formula:

$$\text{Installer Value} = \frac{\text{TV Value} \times 63}{100}$$

Enter only the whole number (disregard fractions).

007 - STRT VOLUME (Start Volume)

This function allows the Installer to determine the initial volume level setting when the 26LH1DC3/4/5 is turned On. This feature is useful for an in-house information channel, since the 26LH1DC3/4/5 would always select that volume level when it is turned On. The range of values are 0 - 63, 255. If 255 is selected, the current volume level will be retained in memory when the 26LH1DC3/4/5 is turned Off; at turn On, the volume level will be automatically set at the previous or last level.

008 - MIN VOLUME (Minimum Volume)

This function determines the minimum volume level allowable with the VOLUME (VOL) Up/Down control. In this way, for example, someone cannot set the volume too low to hear. The value range is from 0 to 63 — change values with ADJ Left/Right arrow. The factory default is 0, which provides the full range of volume control, if item 009 MAX VOLUME is also set to 63. It may be best to set the same value on every 26LH1DC3/4/5.

**Note: The minimum volume level cannot have a value setting higher than the MAX VOLUME level (described below).*

009 - MAX VOLUME (Maximum Volume)

This function determines the maximum volume level allowable with the VOLUME (VOL) Up/Down controls. In this way, for example, someone can not set the volume level high enough to disturb others.

(Continued on next page)

COMMERCIAL MODE

(Continued from previous page)

The value range is 0 to 63, with 63 as the default, which gives the user the full range of volume control, if item 008 MIN VOLUME is also set at 0. Change values with ADJ Left/Right arrow keys. It may be best to set the same value on every 26LH1DC3/4/5.

**Note: The maximum volume level cannot have a value setting lower than the MIN VOLUME level (described previously).*

010 - MUTE DISABLE

Enables or disables sound mute function. If set to 1, sound cannot be muted, mute is disabled. If set to 0, sound can be muted.

011 - KEY DEFEAT (Keyboard Defeat)

If set to 1, key defeat prevents the end user from accessing the onscreen menus with the display front panel—MENU, SELECT, and Left / Right arrow keys and TV/AV do not function. If set to 0, those keys do function.

**Note: The menus can always be accessed by pressing MENU on the Installer remote.*

015 - SLEEP TIMER

If set to 1, the SLEEP TIMER feature may be used. If set to 0, the Sleep Timer is not available.

016 - EN TIMER (Enable On/Off Timers)

If set to 1, Timer function is available to user. Set to 0 to disable On/Off Timer functions. (Clock must be set in order to use Timers.)

017 - ALARM

Gives the installer the option of making the Alarm function available to the end user. If set to 1, Alarm function is available to end user.

Set to 0 to disable the Alarm function.

**Note: Clock must be set before the Alarm function will work.*

021 - V-CHIP (Parental Control)

Set to 1 to activate V-Chip (Parental Control); have it available to end user to filter and control or otherwise restrict programming content that can appear. Set to 0 to turn V-Chip feature Off, not available to user; no programming restrictions can be set.

022 - MAX BLK HRS (Maximum Block Hours)

Sets hours from 0 to 99 for the maximum V-Chip (Parental Control) block hours. Default setting is for 12 blocking hours.

023 - CAPTION LOCK

Set to 1 to restore previous caption On/Off state after turn Off. If set to 0, captions are always Off at turn On.

(Continued from previous page)

028 - CH. OVERRIDE (Channel Override)

If set to 1, the user can select channels with either Channel up/down or by direct keypad entry. If set to 0, only those channels that are added on the channel list can be selected.

029 - OLD OCV (On Command Video™)

Set to 1 for operation with systems from On Command Corporation.

030 - ACK MASK

M.P.I. Communication Parameter. Leave at default setting unless changed by Pay-Per-View provider. When set to 1, changes M.P.I. for some OCV boxes.

031 - POLL RATE

M.P.I. Communication Parameter. Selects Poll Rate for M.P.I. Leave at default setting unless changed by Pay-Per-View provider. Step size of 16 ms.

032 - TIMING PULSE

M.P.I. Communication Parameter. Leave at default setting unless changed by Pay-Per-View provider. Sets baud rate. Step size of 4.3 uS.

034 - CAMPORT EN. (Camera Port Enable)

Set to 1 to enable Video 2 input on display panel. If set to 0, Video 2 input on display panel is not functional.

035 - COMPPORT EN. (Computer Port Enable)

Enable/disables display panel HDMI input jack. Set to 0 to disable, set to 1 to enable.

**Note: The setting above is ignored if Installer item 093 RJP AVAILABLE, is set to 1.*

038 - YPrPb EN. (Rear Component Video Enable)

Set to 1 to enable display panel rear Component Video 1 input.

Set to 0 to disable display panel rear Component Video 1 input.

039 - REAR AUX EN. (Rear Aux Enable)

Set to 1 to enable display panel rear AUX (Video 1) input.

Set to 0 to disable display panel rear AUX (Video 1) input.

040 - AUTO CAMPORT

Set to 1 to automatically switch to Camport when equipment is connected to front Video input.

Set to 0 to disable front Video automatic source selection.

**Note: This item must be set to 0 in order to enable item 093 RJP AVAILABLE to be set to 1.*

046 - STRT AUX SRCE (Start Aux Source)

Start the starting AUX source.

Start source if start channel = 0

1 = Video1 4 = RGB1 7 = Video 3 / S-Video

2 = Video2 5 = Component 2 255 = Last Aux

3 = HDMI 1 6 = Component 1

047 - AUX STATUS

Set to 1 for M.P.I. AUX source to be reported as a channel number instead of channel 0. Set to 0 to disable AUX identification change.

Controls M.P.I. status channel response for AUX inputs.

(Continued on next page)

INSTALLER MENU

053 - DIS. CH-TIME (Disable Channel-Time)

Set to 1 to disable the Channel-Time display, Channel-Time display will not appear.
Set to 0 to enable the Channel-Time display.

069 - EN. CH-T COL. (Enable Channel-Time Custom Color)

Set to 1 to enable custom color for the Channel-Time display.
Set to 0 to disable custom color for the Channel-Time display.

070 - FOR. CH-TIME (Channel-Time Display Foreground Color)

Set according to Color Chart.

0 = Black	3 = Yellow	6 = Cyan
1 = Red	4 = Blue	7 = White
2 = Green	5 = Violet	

**Note: If foreground and background colors are the same, menu background is transparent.*

071 - BCK. CH-TIME (Channel-Time Display Background Color)

Set according to Color Chart.

0 = Black	3 = Yellow	6 = Cyan
1 = Red	4 = Blue	7 = White
2 = Green	5 = Violet	

**Note: If foreground and background colors are the same, menu background is transparent.*

073 - CH NOT AVBLE (Channel Not Available)

If set to 1 and item 028 CHANNEL OVERRIDE is set to 0, "NOT AVAILABLE" message is displayed when directly accessing a channel not in the channel scan list available in memory.

075 - REVERT CH (Revert to Start Channel)

If set to 1 and loss of M.P.I. communication occurs, TV automatically tunes to the specified Start Channel.

077 - QUICK SHUTOFF

Allows TV power off to be controlled by the pillow speaker channel selection button. User would press and hold button down for time required to have TV turn off. Value Range 0 - 17, each number represents 1/2 second. For example, if set to 4, TV would turn off if user held speaker channel button down for 2 seconds.

078 - UPN MSB (UPN Most Significant Byte)

User programmable number, most significant byte readable by M.P.I. command.

**Note: Not linked to serial number.*

079 - UPN MSB-1 (UPN Most Significant Byte-1)

User programmable number, most significant byte-1 readable by M.P.I. command. Not linked to serial number.

080 - UPN MSB-2 (UPN Most Significant Byte-2)

User programmable number, most significant byte-2 readable by M.P.I. command. Not linked to serial number.

081 - UPN LSB (UPN Least Significant Byte)

User programmable number, least significant byte readable by M.P.I. command. Not linked to serial number.

082 - CHKSM ERROR (Checksum Error)

Enforces rigid M.P.I. checksum validation.

Set to 1 for validation.

Set to 0 to disable (does not check checksum on M.P.I. async port).

SPI is always checked.

083 - HANDSHK TIME (Handshake Time)

Adds an additional delay to the handshake time which is 64 msec, thus relaxing M.P.I. timing requirements to be compatible with PC based Windows controlled systems, range is 0 - 5.

(Timeout = 25.5MS + [25.5 MS* Handshake time]).

084 - PERMANENT BLK (Permanent Block)

Allows Lock (Parental Control) blocking schemes to be permanent by disabling the blocking hours function.

Set to 1 to install Parental Control restrictions permanently.

Set to 0 for user-specified hours control of blocking schemes.

087 - REAR RGB EN. (Rear RGB1 Enable)

Controls access to rear RGB1 input on display panel. Set to 1 to enable RGB1 input for DTV. Set to 0 to disable RGB1 input.

**Note: The setting above is ignored if Installer item 093 RJP AVAILABLE, is set to 1. Then 087 - REAR RGB EN. above, always resets itself to PC (1) -- regardless of what value appears for item 087 on the Installer menu.*

088 - EN NOISE MUTE (Enable Noise Mute)

If set to 1, audio mutes if no signal is present.

090 - KEY LOCK

If set to 1, display panel keyboard is locked out, not available to end user. IR receiver remains functional.

091 - YPrPb2 EN. (Rear Component Video 2 Enable)

Set to 1 to enable display panel Component 2 input.

Set to 0 to disable display panel Component 2 input.

092 - RGB2 ENABLE (Red-Green-Blue 2 Enable)

Set to 1 to enable display panel Video 3 input for Composite Video, set to 2 to enable for S-Video. Set to 0 to disable display panel Video 3 input.

093 - RJP AVAILABLE

Set to 1, remote jack pack is available.

Set to 0, remote jack pack is not available.

**Note: This item can not be set to 1 if item 040 AUTO CAMPORT is set to 1.*

(Continued on next page)

COMMERCIAL MODE

(Continued from previous page)

094 - SAP MENU EN (2nd Audio Program)

Set to 1 to enable SAP feature, if available.

Set to 0 to disable SAP feature.

096 - DEF. ASP. RATIO (Default Aspect Ratio)

Selects default aspect ratio at power up, see settings below.

Set to 0 for set by program.
Set to 1 for 4:3.
Set to 2 for 16:9 (Factory Default).
Set to 4 for Zoom 1
Set to 5 for Zoom 2

102 - ATSC BAND

Sets up TV to receive different types of incoming signals: 0=Broadcast, 1=CATV, 2=HRC, 3=IRC, 4=Same as NTSC.

103 - ATSC TUNE MODE

Selects ATSC tuning mode: 0=Virtual, 1=Physical.

Note: The setting above is ignored if Installer item 102 ATSC BAND, is set to 1=CATV, 2=HRC, or 3=IRC. Then

103 - ATSC TUNE MODE above always resets itself to Physical (1), regardless of what value appears for item 103 on the Installer menu.

104 - START MINOR CHANNEL

Sets XX-XX minor starting channel at power up: 0=NTSC. If not 0, number selected is the Minor start channel number.

106 - ASP RATIO LOCK (Aspect Ratio Lock)

Set to 1 to retain previous aspect ratio with power Off.

Set to 0 to retain default aspect ratio with power Off.

See item 96 Default Aspect Ratio above.

107 - BANNER SELECT

Not applicable.

116 - VIDEO MUTE EN (Video Mute Enable)

Set to 0 for normal.

Set to 1 for blank.

117 - FACT DEFAULT (Factory Default)

Set to 0 for normal.

Set to 1 to load default settings for all installer menu items.



WARNING: Setting this to 1 will reload the factory defaults and clear the channel list including erasing any assigned Channel Icons and Labels.

PEREFERENCE

TV Features / Menus that can be Cloned

Closable Menu Features				
Channel	Picture	Sound	Setup	Caption
Auto Program	Mode	Mode	Time	On/Off
(Active channels	Contrast	Treble	Clock	Analog Mode
found with the	Brightness	Bass	Auto Off	Digital Mode
channel search)	Color	Balance	V-Chip	Digital Font Option
Channel Labels	Sharpness	Auto Volume	TVPG Rating	
Channel List	Tint	Multi-Track	MPAA Rating	
Fine Tune	Color Temperature	Internal Speaker	Menu Language	
	Screen Format		SET ID	
	Film Mode			

**Note: For Digital Font Options, if any default setting is left unchanged prior to cloning, then all the digital font options wil be set to default settings. If you want custom digital font options to be clonable, set all digital font options to settings other than Default.*

COMMERCIAL MODE

REFERENCE

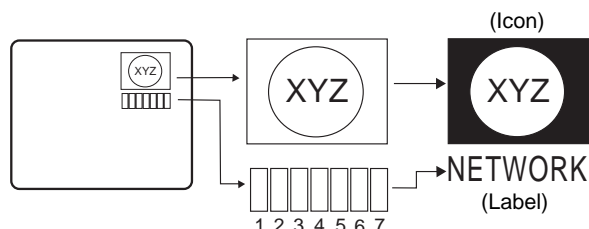
Procedures for adding Channel Label Icons/Custom Channel Labels (2-5-4 + MENU Mode)

Adding Channel Icons and Labels in the 2-5-4 + Menu Mode

Editing/Adding Channel ICONs and/or Labels

If there is no pre-assigned ICON, you can make a channel label of up to 7 characters to help in identifying the channel or network.

At your option, channel labels can also be added in addition to a pre-assigned ICON. You may also add labels for the Aux input sources to clearly identify the devices that are connected to the Aux inputs.



Editing and adding the labels can only be done if there are channels entered into the 26LH1DC3/4/5's channel map either by using the method described in item 6 (page 64), by cloning or by the use of the master remote control from the PPV provider.

To Do Channel Editing/Labeling, proceed as follows

1. Enter 26LH1DC3/4/5 Installer menu.
2. After the installer menu appears, press '2', '5', '4', 'MENU'.
This enters the channel label edit mode.
Add your channel icons and channel labels in this menu, see below. (You can do this more than once.)
3. To exit the menu when done press "MENU".

Changing a Channel's ICON on Master TV

1. With Channel Up/Down, select the channel you want to change the Icon for.
2. With the Right or Left ADJ button, select the letter 'I' on the channel ID display.
3. With the Up or Down ADJ button, select the desired ICON you want to appear to identify the channel. (If you know the ICON number, enter the number followed by Enter / Select.)
**Note: If no Icon is available, leave at or select the default blank icon display.*
4. Proceed with Changing/Adding Labels or go to the next channel.

Changing/Adding Channel Labels on Master TV

1. Channel Up/Down to select the desired channel.
2. Press the Right or Left ADJ arrow repeatedly until the numbers 1 to 7 show up. The number shows the position of the character that can be changed. Number 1 is the first character, number 2 the second character and so on.
3. With the Up or Down ADJ arrow, select the desired character.
4. Proceed to the next number position or use Channel Up/Down to go to the next channel.

Changing Source Labels on Master TV

1. Press "TV/AV" to select the desired Aux input source; Video 1, Component, S-Video etc.
2. Press the Right or Left ADJ arrow repeatedly until the numbers 0 to 9 show up.
The number shows the position of the character that can be changed.
3. Use the Up or Down ADJ arrow to select the desired character.
4. Press "TV/AV" for the next Aux source or proceed with Changing Icon or Changing/Adding Labels.

Installer Remote Control Key Functions for Master TV Channel Editing/Labeling Menu

- **CHANNEL Up/Down** - Tunes in the next channel in scan.
- **Left/Right Arrows** - Select the item to change. If "I" is shown, the ICON can be changed. If a number is shown, it indicates the position of the character that can be changed.
- **Up/Down Arrows** - Select the ICON or the character to be displayed.
- **0 - 9** - Use to enter the index number of the ICON, if known.
- **OK (Enter/Select)** - Changes the ICON after the number has been entered.
- **TV/AV** - Changes the Aux input source for labeling. This key is located on the side of the TV front and on Installer remote control.
- **MENU** - Exits the labeling/editing menu.

REFERENCE

Detailed Information For Making A Master TV

IMPORTANT INSTALLER SETUP INFORMATION! PLEASE READ THE FOLLOWING...



To set up a master TV you will need to know how to enter the 26LH1DC3/4/5 Installer menu and make changes to the default values as required. If necessary, familiarize yourself with the 26LH1DC3/4/5 Installer menu and how to make and save changes in the menu, before attempting to clone the 26LH1DC3/4/5 Master TV setup.

You will also need an **Installer remote control** similar to the one shown in the front of this manual.

Finally, the TV's clonable features need to be set up. This is a critical step. If the Master TV display panel's clonable features like adding channel icons or channel

labels are not correctly added, then the cloned 26LH1DC3/4/5s TVs will all have problems.

As the cloning procedure is being performed, specific steps need to be done at the indicated times to achieve the desired result. Be sure to do each task as indicated. If a procedure or step is left out or not performed completely, cloning may not work. At each step, pay attention to assure the TV screen shows the proper message when cloning. If the message indicated does not appear, there is a problem with that step and cloning may not be successful. Cloning is only possible when the signal source is an Analog channel, not a digital channel.

Making a Master TV Detailed Instructions

The following describes the procedure for preparing a Master 26LH1DC3/4/5 for cloning and the procedure for adding Channel Icons and/or Labels.

Note 1: Disconnect all Aux inputs. Under certain conditions, Auto Program Scan is disabled if there is an Aux input active.

Note 2: Under certain conditions, changes to the input mode of the RGB inputs will not take effect until the power is cycled (TV is turned Off and On). To avoid confusion, disconnect all RGB inputs before entering the Installer menu.

1. Enter the 26LH1DC3/4/5 installer menu.
 - a. Reset the internal controller to factory default by accessing installer menu item 117 FACT DEFAULT, set it to 1 and press "ENTER". The value will change back to 0 after the TV's internal controller has been restored to factory default condition.
- b. Within the Installer menu, set the Installer menu items to the configuration required of your institution.
- c. It is important to set the tuning band at this time, see Installer menu item 03 BAND/AFC.
- d. Set Installer menu item 28 – CH OVERRIDE to 001 to allow access to the Auto Program and Channel List/Channel Label features in the Channel Menu. Exit the Installer menu.
2. Access the Master TV menus and set the clonable options on the menus to the desired configuration. Refer to the **Clonable Menu Features Chart** on the see page 63.
3. Run Auto Program.
4. Enter the Channel List/Channel Label menu and edit the channel line-up to include the Free-To-Guest

Channels only.

5. Assign ICONs to the channels using the Channel Label Menu.

Note: You can add Channel ICONS typically network logos like ABC, NBC, PBS etc. in this step. Or, in Step 7, add Channel ICONS or labels for channels without Icons.
6. Transfer the TV setup: Enter the 26LH1DC3/4/5 installer menu.

Press '2', '5', '5', 'MENU' to start the transfer of the TV's setup to the 26LH1DC3/4/5. Once the transfer is complete, the system will exit the Installer menu.

Note: Only do 2-5-5 + MENU once. The TV setup may be corrupted if 255 + Menu is done more than one time.
7. Edit/Add Channel ICONs and Channel Labels as needed. Enter Installer menu. With menu displayed, press 2-5-4 + MENU.

See page 62 for detailed instructions:

 - **Editing/Adding Channel ICON and Labels on Master TV**
 - **Changing a Channel's ICON on Master TV**
 - **Changing/Adding Channel Labels on Master TV**
 - **Changing Source Labels on Master TV**
8. Verify Master TV setup and feature configuration:
 - Did you add Channel ICONS?
 - Did you add Channel Labels?
 - Did you add Aux Source Labels?
 - Did you adjust all TV menu options as required?

The TV master setup is now ready to be cloned. Go to the master TV cloning section or continue on to page 52.

After verifying master setup, enter the 26LH1DC3/4/5 Installer menu and set Installer menu item 028 Ch Override to 000.

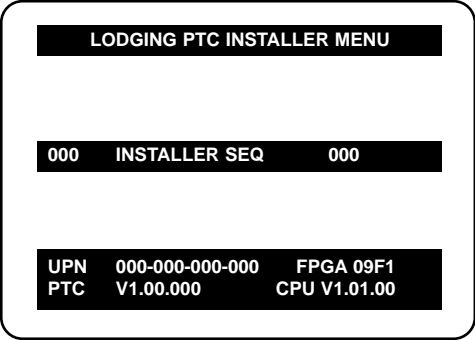
COMMERCIAL MODE

PEREFERENCE

Software Version Check

Procedure to Check Software Version

The software version of the 26LH1DC3/4/5 may be checked by accessing the INSTALLER MENU. To do this, press the MENU button at least 10 times until the menu display ceases to respond to MENU key presses. Then, press "9", "8", "7", "6", "OK (Enter/Select)".



Typical Installer Menu

PEFERENCE

26LH1DC3/4/5 Camport Auto Sense Operation

The CAMPORT Auto Sense function is enabled when:

1. Installer Menu Item 34, CAMPORT EN is set to 1 AND
2. Installer Menu Item 40, AUTO CAMPORT is enabled (1).

Selectable= Can be accessed with TV/AV key, direct access, etc.

Auto Sense= Switches to this input when connector is inserted.

The camport (Front Video) has the highest priority and will override any commands including tuning to the Start Channel.

CAMPORT (Front Video) Functionality Control

Item 34 CAMPORT EN	Item 40 AUTO CAMPORT	Front Video Operation
0	0	Disabled
0	1	Disabled
1	0	Selectable
1	1	Auto Sense

CAMPORT Operation (Stand-Alone)

When Camport Auto Sense is enabled as above, the TV's source will switch to the front video whenever a plug is inserted into any of the front panel video inputs (either composite Video or S-Video).

When the plug is removed, the TV will switch back to the Previous channel or input source that the TV was using before the Plug was inserted. However, if any direct access to an RF channel or Aux channel is requested while the camport is active, then, when the camport plug is removed, the TV will switch to the last requested channel. Source changes using any Source Keys (TV/AV) are ignored. Channel Up/Channel Down and Flashback Commands are not direct access tuning commands and they are also ignored.

Previous State Before Inserting CAMPORT	Operation State While CAMPORT Is Active	State Upon Removal Of CAMPORT
Aux or RF Channel	None	Previous Aux or RF Channel
Aux or RF Channel	Direct Access	Last Requested RF or Aux Channel
Aux or RF Channel	Ch Up/Down, Flashback and TV/AV Keys	Previous Aux or RF Channel

CAMPORT Operation (PPV)

The operation will be similar to that of the Stand-Alone mode. However, the PPV providers may send different commands to the TV for the same user commands. For instance, some providers will always send a direct tune command when it receives a channel up/down or a flashback command while other PPV providers will just send a key command.

Previous State Before Inserting CAMPORT	Operation While CAMPORT Is Active	State Upon Removal Of CAMPORT
Aux or RF Channel	None	Previous Aux or RF Channel
Aux or RF Channel	Direct Access	Last Requested RF or Aux Channel
Aux or RF Channel	Ch Up/Down, Flashback and TV/AV Keys	Last Requested Channel if PPV translates it to direct access tuning command. Otherwise, goes to Previous Aux or RF Channel

COMMERCIAL MODE

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26LH1DC3/4/5 Aux Input Configuration

26LH1DC3/4/5 Aux Input Configuration

DIRECT ACCESS Tuning		26LH1DC3/4/5		ENABLE				MPI DATA			STATUS AUX SOURCE ASSIGNMENT
				Installer Menu		MPI DATA STATUS TYPE 0x41 SOURCES ENABLED (R/W)		DATA STATUS TYPE 0xD2 CURRENT AV SOURCE (R)		DATA STATUS TYPE 0X0D AUX SOURCE (R)	
OLD_OCV =0	OLD_OCV =1	Source Input	Source Mode	Number	Labeling	Value	Labeling	Value	Labeling		
130	90	Video2 (Front)	CV ONLY	34	CAMPORT_EN	0x01	Video Front (Camport)	0	Video Front (Camport)	0(VIDEO)	2
131	91	Video1(Rear)	CV ONLY	39	REAR_AUX_EN	0x02	Rear Video (Aux)	1	Rear Video (Aux)	0(VIDEO)	1
132	92	Component 2		91	YPrPb2 EN	0x04	S-Video Rear	2	S-Video Rear	0(VIDEO)	5
133	93	DVI/HDMI1	DTV/PC Auto	35	COMPORT EN	0x08	Front Computer	3	Front Computer	0(VIDEO)	3
134	94	RGB1	DTV/PC Auto	87	REAR RGB EN	0x10	SVGA Rear	4	Computer	0(VIDEO)	4
135	95	Video 3	CV S-Video	92	RGB2 ENABLE	0x20	NTSC Rear Computer	5	NTSC Rear Computer	0(VIDEO) 1(S-VIDEO)	7
136	96	Component1		38	YPrPb EN	0x40	YUV Component	6	Rear YPrPb component video	0(VIDEO)	6

APPENDIX

TROUBLESHOOTING

Some quick and easy tips to resolving problems

Software Problems

TV not functions properly.	
Software lockup.	<ul style="list-style-type: none">● Remove power cord for 5 mins.
Software Corrupted.	
2-5-5 + MENU performed more than once.	<ul style="list-style-type: none">● Start all over with item 117, set to 001, press Enter then redo Auto Program, Channel List, Clock, etc. <i>*Note: 2-5-4 + MENU can be done more than once.</i>
Virtual and Physical channels appear in channel scan w/Channel Up/Down.	
2-5-5 + MENU not performed.	<ul style="list-style-type: none">● After Auto Program and Channel List, etc. press 2-5-5 + MENU to transfer channels and TV setup to internal TV controller. Afterward, only Physical or only Virtual channels will appear in digital channel scan, analog channel scan will be normal. <i>*Note: Be sure to set item 028 Ch Override to 000.</i>
Can not direct enter channel number	
Channel not included in channel scan in TV controller.	<ul style="list-style-type: none">● After 2-5-5 + MENU, only channels included in TV controller will appear. If channel is available, redo channel scan. If it is not available it will not appear on the TV screen.

Power	
No Power.	<ul style="list-style-type: none">● See troubleshooting flow chart.

Display Panel Picture

No picture	
Display panel is turned off.	<ul style="list-style-type: none">● Turn TV on.● Power failure?
Antenna/Cable not connected.	<ul style="list-style-type: none">● Connect Antenna/Cable signal source to 26LH1DC3/4/5.
Connections incorrect.	<ul style="list-style-type: none">● Check connections on 26LH1DC3/4/5.
M.P.I. not connected.	<ul style="list-style-type: none">● If applicable, connect M.P.I. cable to M.P.I. device.
Encrypted program.	<ul style="list-style-type: none">● Try another channel.
Wrong tuning band.	<ul style="list-style-type: none">● Adjust Installer menu settings.

APPENDIX

Erratic Operation

Installer menu setup.

- | | |
|---|--|
| Wrong Installer menu settings.
Software problem. | <ul style="list-style-type: none">● Adjust Installer menu settings as required.● Remove TV power cord for 15 seconds. |
|---|--|

Remote Control

Remote doesn't work.

- | | |
|--------------------------------------|--|
| Remote not in TV mode. | <ul style="list-style-type: none">● Use Mode key to select TV; puts remote into 26LH1DC3/4/5 mode. |
| Not aimed at IR remote sensor. | <ul style="list-style-type: none">● Point remote at TV's IR receiver on TV. |
| Remote too far from IR sensor. | <ul style="list-style-type: none">● Move remote closer to TV's IR receiver or darken room. |
| IR path to TV's receiver obstructed. | <ul style="list-style-type: none">● Remove obstructions. |
| Weak batteries. | <ul style="list-style-type: none">● Replace batteries. |
| Wrong battery polarity. | <ul style="list-style-type: none">● Check that "+" and "-" match in battery compartment. |
| Too much light in room. | <ul style="list-style-type: none">● Dim room light. |
| Wrong Installer remote control. | <ul style="list-style-type: none">● Requires compatible Installer remote, contact your LG dealer. |
| Incorrect Bed 1-2 setting. | <ul style="list-style-type: none">● Set correct Bed 1-2 setting. |

Picture Reception

Normal picture, poor or no sound.

- | | |
|--------------------|--|
| Audio muted. | <ul style="list-style-type: none">● Press MUTE or use Volume Up key to increase sound level. |
| Broadcast problem. | <ul style="list-style-type: none">● Try a different channel. |
| TV Speakers Off. | <ul style="list-style-type: none">● Turn TV speakers on. |

Broadcast Tuning Mode Digital Channel OSD

No Information available display.

- | | |
|---|--|
| Item 103 set to 1 physical channels tuning. | <ul style="list-style-type: none">● Set Item 103 to 0 for information to be added to virtual channel tuning digital OSD. |
|---|--|

*Note: For other problems not caused by the 26LH1DC3/4/5, refer to other devices' operating guide.

CLONING PROCEDURE TROUBLESHOOTING

IMPORTANT INSTALLER SETUP INFORMATION! PLEASE READ THE FOLLOWING...



Warning: Do not use LT2002 while a LodgeNet PPV card is installed in TV or clone programmer will be damaged.

**Note: The LT2002 programmer is designed to be used with TVs containing the 221-01006 and later processors. Use with earlier TV sets may give unpredictable results. Processors used before the 221-01006-04 have a limited screen display capability. They cannot display entire screens as shown in the quick setup instructions accompanying the LT2002 clone programmer. Use the printed menu illustrations on the quick setup sheet supplied with the Clone as an aid to making your programming choices. (Although the menus are not all displayed, the clone functions all operate normally.)*

Reset Clone After Static Shock

After replacing exhausted batteries, or if the programmer behaves strangely after a static shock, activate the internal reset switch and restore normal operation. After a reset, check the real-time clock setting. It may be necessary to reset the Clone Programmer clock from a TV containing the correct time.

Remote does not operate clone.	
Wrong Installer remote.	● Only use an appropriate Installer remote to operate clone programmer with 26LH1DC3/4/5.

LED does not blink	
M.P.I. cord not connected.	● Connect M.P.I. cord.
26LH1DC3/4/5 not turned on.	● 26LH1DC3/4/5 must be powered On for clone to work.
Weak batteries.	● Install 4 fresh AA high-quality alkaline batteries.

Clone menu hard to read.	
Weak signal.	● Connect 26LH1DC3/4/5 to a reliable Analog channel signal source.

No time set.	
Time not available.	● Set time on a TV, copy time to Clone Programmer.

APPENDIX

CLONING PROCEDURE TROUBLESHOOTING

Clone not working

- | | |
|---------------------------|--|
| Clone programmer problem. | <ul style="list-style-type: none">● Try a different LT2002 Clone programmer.● Reset Clone Programmer. |
|---------------------------|--|

Clone Scans Channels more than once.

- | | |
|---------------------------------------|--|
| Clone should only scan channels once. | <ul style="list-style-type: none">● Retry cloning again. |
|---------------------------------------|--|

Master and Other 26LH1DC3/4/5

Cloning did not work.

- | | |
|-----------------------------------|---|
| Procedure interrupted. | <ul style="list-style-type: none">● Wait until procedure complete message is displayed. |
| Different TV models. | <ul style="list-style-type: none">● Cloning is only possible with identical model TVs. |
| Step(s) omitted or not performed. | <ul style="list-style-type: none">● Reread 54 - 55 - 56 pages to be sure all tasks were performed. |
| Insufficient cloning time. | <ul style="list-style-type: none">● Redo cloning and be sure learning/teaching time is about 1 min. and 5 to 15 seconds (75 seconds). |
| Cloning erratic. | <ul style="list-style-type: none">● Reset Clone Programmer. |

Clone time disappeared.

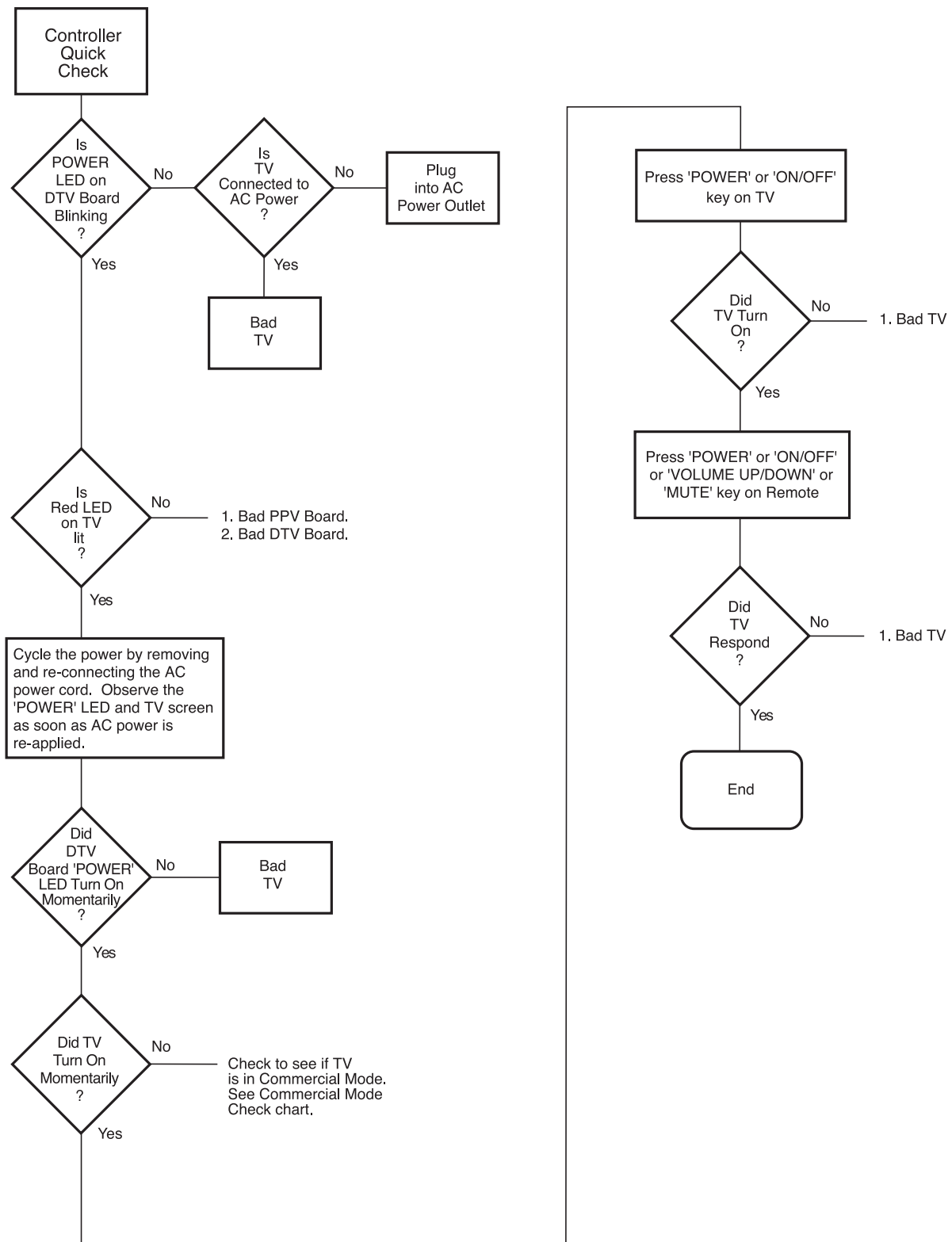
- | | |
|-------------------------|--|
| Batteries were removed. | <ul style="list-style-type: none">● Batteries must remain installed to retain time settings. |
|-------------------------|--|

New Setup not present

- | | |
|-------------------------|--|
| 26LH1DC3/4/5 not reset. | <ul style="list-style-type: none">● Disconnect newly cloned unit from power for 5 seconds. |
|-------------------------|--|

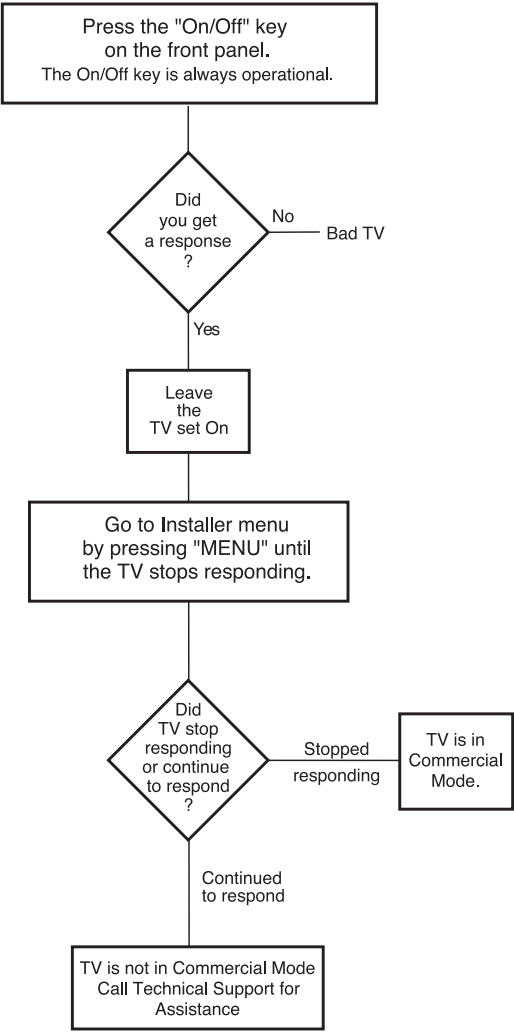
- After cloning operations are complete, just unplug the LT2002 from the 26LH1DC3/4/5.
- If the 26LH1DC3/4/5 does not display a picture on the TV (blank screen) after a few seconds, just change channels.

CLONE TROUBLESHOOTING FLOW CHART



APPENDIX

TV OPERATING CHECK



GLOSSARY OF TERMS

A list of definitions for some of the words found in this guide

75 OHM RF CABLE

The wire that comes from an off-air antenna or cable service provider. The end looks like a hex-shaped nut with a wire sticking through the middle. It screws onto the Antenna/Cable threaded jack on the back of the 26LH1DC3/4/5.

300 TO 75 OHM ADAPTER

A small device that connects a two-wire 300ohm antenna to a 75 ohm RF jack.

They are usually about an inch long with two screws on one end and a round opening with a wire sticking out on the other end.

ANALOG TELEVISION

Standard television broadcasting format in 4:3 picture aspect ratio.

A/V CABLES

Audio/Video cables. Three cables bunched together—right audio (red), left audio (white), and video (yellow). A/V cables are used for stereo playback of videocassettes and for higher quality picture and sound from other A/V devices.

A/V DEVICE

Any device that produces video or sound (VCR, DVD, cable box, or television).

AMPLIFIER

An electronic device that amplifies sound from a television, CD player, VCR, DVD, or other Audio/Video device.

ANTENNA

The physical receiver of television signals sent over the air. A large metal piece of equipment does not always have to be visible to be using an antenna.

CABLE

Cable service box. Refers to the descrambler box cable subscribers use to receive cable programming signals. DVD, cable box, or television).

CATV

Programming provided by a cable service.

DIGITAL TELEVISION

High-resolution, cinema-quality television signals transmitted digitally.

DVI

Digital Video Interface
Accommodates analog and digital interfaces with a single connector.

COMPOSITE VIDEO

Typical video jack, uses one wire for transporting three-color video signals.

COMPONENT VIDEO

Uses three wires for transporting three-color video signals. The end result is usually better video quality.

DELETED

Lets you remove channels from the list that the end user can scroll through using CH (Channel) Up/Down.

HDMI

High-definition multimedia interface.

HDTV

High-definition television. Refers to television signals that have higher resolution than ordinary analog TV signals.

HDSTB

High-definition set top box. Refers to a tuner device that receives high-definition television signals which have higher resolution than ordinary analog TV signals.

INPUT

Refers to the input jack that receives a signal from a TV, VCR, DVD Player or other Audio/Video device.

JACK

An input or output connector on the back of a TV, VCR, DVD Player or other Audio/Video device.

MONO SOUND

Mono (monaural) sound is one channel of sound. On more than one speaker, all the speakers play the same audio.

OUTPUT

Refers to the output jack that sends a signal out of a VCR, DVD, or other A/V device.

PHYSICAL CHANNEL NUMBER

Actual digital major, dashed minor channel number that a station is broadcasting on.

RGB (Red, Green, Blue)

Connection input or output port available for producing a video image using three separate colors: Red, Green, and Blue.

2ND AUDIO PROGRAMMING/SAP

Second Audio Programming (SAP) is another, separate audio channel available with some programming. Choosing SAP often refers to listening to audio in another language, such as Spanish or French.

SIGNAL

Picture and sound traveling through a cable, or over the air, to the TV.

STEREO SOUND

Stereo (Stereophonic) sound refers to audio that's divided into right and left sides.

TUNER

Device that picks up the broadcast signal and turns it into picture and sound.

VIRTUAL CHANNEL NUMBER

The arbitrarily assigned digital dashed minor channel number that a station is broadcasting on.

NOTE



NOTE



PRODUCT SPECIFICATIONS

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

MODELS		26LH1DC3/4/5
Dimensions (Width x Height x Depth)		27.01 x 22.0 x 9.97 inches / 686.0 x 558.7 x 253.2 mm
Weight		33.95 pounds / 15.4 kg
Power requirement		AC100-240V ~ 50/60Hz
Television System		NTSC-M, ATSC, 64 & 256 QAM
Program Coverage		VHF 2-13, UHF 14-69, CATV 1-135, DTV 2-69, CADTV 1-135
External Antenna Impedance		75 ohm
Environment condition	Operating Temperature	32 ~ 104°F (0 ~ 40°C)
	Operating Humidity	Less than 80%
	Storage Temperature	-4 ~ 140°F (-20 ~ 60°C)
	Storage Humidity	Less than 85%



LG Electronics Inc.