Owner's Record

The model number and serial number are on the back of your TV. Record these numbers in the spaces below. Refer to these numbers whenever you communicate with your Toshiba dealer about this TV.

Model number: ____________________
Serial number: ____________________
Dear Customer,
Thank you for purchasing this Toshiba LCD TV. This manual will help you use the many exciting features of your new LCD TV. Before operating your LCD TV, please read this manual completely, and keep it nearby for future reference.

Safety Precautions

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING 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 injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions. See item 20 on page 3.

WARNING: If you decide to wall mount this television, always use a UL Listed wall bracket appropriate for the size and weight of this television. The use of any wall bracket other than a UL Listed wall bracket appropriate for the size and weight of this television for wall mounting this television could result in serious bodily injury and/or property damage. See “Removing the Pedestal Stand” (see page 5).

NOTE TO CATV INSTALLERS
This is a reminder to call the CATV system installer’s attention to Article 820-40 of the U.S. NEC, which 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 cable entry as practical. For additional antenna grounding information, see items 27 and 28 on page 4.

Child Safety

It Makes A Difference Where Your TV Stands

Congratulations on your purchase! As you enjoy your new TV, keep these safety tips in mind:

The Issue
- If you are like most consumers, you have a TV in your home. Many homes, in fact, have more than one TV.
- The home theater entertainment experience is a growing trend, and larger TVs are popular purchases; however, they are not always supported on the proper TV stands.
- Sometimes TVs are improperly secured or inappropriately situated on dressers, bookcases, shelves, desks, audio speakers, chests, or carts. As a result, TVs may fall over, causing unnecessary injury.

Toshiba Cares!
- The consumer electronics industry is committed to making home entertainment enjoyable and safe.
- The Consumer Electronics Association formed the Home Entertainment Support Safety Committee, comprised of TV and consumer electronics manufacturers, to advocate children’s safety and educate consumers and their families about television safety.

Tune Into Safety
- One size does NOT fit all! Use appropriate furniture large enough to support the weight of your TV (and other electronic components).
- Use appropriate angle braces, straps, and anchors to secure your furniture to the wall (but never screw anything directly into the TV).
- Carefully read and understand the other enclosed instructions for proper use of this product.
- Do not allow children to climb on or play with furniture and TVs.
- Avoid placing any item on top of your TV (such as a VCR, remote control, or toy) that a curious child may reach for.
- Remember that children can become excited while watching a program and can potentially push or pull a TV over.
- Share our safety message about this hidden hazard of the home with your family and friends. Thank you!

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- Remember that children can become excited while watching a program and can potentially push or pull a TV over.
- Share our safety message about this hidden hazard of the home with your family and friends. Thank you!
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 are 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 objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Additional Safety Precautions

14a) CAUTION: If the TV is dropped and the cabinet or enclosure surface has been damaged or the TV does not operate normally, take the following precautions:
- ALWAYS turn off the TV and unplug the power cord to avoid possible electric shock or fire.
- NEVER allow your body to come in contact with any broken glass or liquid from the damaged television. The LCD panel inside the TV contains glass and a toxic liquid. If the liquid comes in contact with your mouth or eyes, or your skin is cut by broken glass, rinse the affected area thoroughly with water and consult your doctor.
- ALWAYS contact a service technician to inspect the TV any time it has been damaged or dropped.

15) CAUTION:
- To reduce the risk of electric shock, do not use the polarized plug with an extension cord, receptacle, or other outlet unless the blades can be inserted completely to prevent blade exposure.
- To prevent electric shock, match wide blade of plug to wide slot; fully insert.

16) WARNING:
To prevent the spread of fire, keep candles or other open flames away from this product at all times.

Installation, Care, and Service

Installation
Follow these recommendations and precautions and heed all warnings when installing your TV:

17) Never modify this equipment. Changes or modifications may void: a) the warranty, and b) the user’s authority to operate this equipment under the rules of the Federal Communications Commission.

18) DANGER: RISK OF SERIOUS PERSONAL INJURY, DEATH, OR EQUIPMENT DAMAGE!
Never place the TV on an unstable cart, stand, or table. The TV may fall, causing serious personal injury, death, or serious damage to the TV.

19) To avoid damage to this product, never place or store the TV in direct sunlight; hot, humid areas; or areas subject to excessive dust or vibration.

20) Always place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit. To secure the TV, use a sturdy tie from the hooks on the rear of the TV pedestal to a wall, pillar, or other immovable structure. Make sure the tie is tight, secure, and parallel to the floor.

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

22) Never block or cover the slots or openings in the TV cabinet back, bottom, and sides. Never place the TV:
- on a bed, sofa, rug, or similar surface;
- too close to drapes, curtains, or walls; or
- in a confined space such as a bookcase, built-in cabinet, or any other place with poor ventilation.

The slots and openings are provided to protect the TV from overheating and to help maintain reliable operation of the TV. Leave a space of at least 4 (four) inches around the TV. (continued)
23) Always place the back of the television at least four (4) inches away from any vertical surface (such as a wall) to allow proper ventilation.

24) Never allow anything to rest on or roll over the power cord, and never place the TV where the power cord is subject to wear or abuse.

25) Never overload wall outlets and extension cords.

26) Always operate this equipment from a 120 VAC, 60 Hz power source only.

27) Always make sure the antenna system is properly grounded to provide adequate protection against voltage surges and built-up static charges (see Section 810 of the National Electric Code).

28) DANGER: RISK OF SERIOUS PERSONAL INJURY OR DEATH!
   • Use extreme care to make sure you are never in a position where your body (or any item you are in contact with, such as a ladder or screwdriver) can accidentally touch overhead power lines. Never locate the antenna near overhead power lines or other electrical circuits.
   • Never attempt to install any of the following during lightning activity: a) an antenna system; or b) cables, wires, or any home theater component connected to an antenna or phone system.

Care
For better performance and safer operation of your TOSHIBA TV, follow these recommendations and precautions:

29) If you use the TV in a room whose temperature is 32 °F (0 °C) or below, the picture brightness may vary until the LCD warms up. This is not a sign of malfunction.

30) Always unplug the TV before cleaning. Gently wipe the display panel surface (the TV screen) using a dry, soft cloth only (cotton, flannel, etc.). A hard cloth may damage the surface of the panel. Avoid contact with alcohol, thinner, benzene, acidic or alkaline solvent cleaners, abrasive cleaners, or chemical cloths, which may damage the surface. Never spray volatile compounds such as insecticide on the cabinet. Such products may damage or discolor the cabinet.

31) WARNING: RISK OF ELECTRIC SHOCK!
Never spill liquids or push objects of any kind into the TV cabinet slots.

32) While it is thundering, do not touch the connecting cables or apparatus.

33) For added protection of your TV from lightning and power surges, always unplug the power cord and disconnect the antenna from the TV if you leave the TV unattended or unused for long periods of time.

34) During normal use, the TV may make occasional snapping or popping sounds. This is normal, especially when the unit is being turned on or off. If these sounds become frequent or continuous, unplug the power cord and contact a Toshiba Authorized Service Center.

35) WARNING: RISK OF SERIOUS PERSONAL INJURY OR EQUIPMENT DAMAGE!
Never strike the screen with a sharp or heavy object.

36) • The LCD screen of this product can be damaged by ultraviolet radiation from the sun. When selecting a location for the television, avoid locations where the screen may be exposed to direct sunlight, such as in front of a window.
   • Never touch, press, or place anything on the LCD screen. These actions will damage the LCD screen. If you need to clean the LCD screen, follow the instructions in item 30 on this page.

Service

37) WARNING: RISK OF ELECTRIC SHOCK!
Never attempt to service the TV yourself. Opening and removing the covers may expose you to dangerous voltage or other hazards. Failure to follow this WARNING may result in death or serious injury. Refer all servicing not specified in this manual to a Toshiba Authorized Service Center.

38) If you have the TV serviced:
   • Ask the service technician to use only replacement parts specified by the manufacturer.
   • Upon completion of service, ask the service technician to perform routine safety checks to determine that the TV is in safe operating condition.

39) The cold cathode fluorescent lamp in the LCD panel contains a small amount of mercury. When the TV reaches the end of its useful life, dispose of the used TV by the approved method for your area, or ask a qualified service technician to properly dispose of the TV.

Note: The lamp(s) inside this product contain mercury. Disposal may be regulated due to environmental considerations. For disposal or recycling information, contact your local authorities or the Electronics Industries Alliance (www.eiae.org).
Choosing a location for your LCD TV

To Display your LCD TV on the included Pedestal Stand:

Observe the following safety precautions:

1) Read and Follow the pedestal assembly instructions included with the pedestal.

**CAUTION:** Before beginning pedestal assembly, carefully lay the front of the LCD Panel face down on a flat, cushioned surface such as a quilt or blanket. Leave the bottom of the unit protruding over the edge of the surface and assemble the pedestal as indicated below.

**Note:** Extreme care should always be used when attaching the pedestal stand to avoid damage to the LCD panel.

2) Place the TV on a sturdy, level surface that can support the weight of the TV.

3) Be sure to secure the TV to a wall, pillar, surface, or other immovable structure. To secure the TV in this manner, use the included strap located at the rear of pedestal stand. (item 20, page 3).

To Display your LCD TV using a Wall Bracket:

If you decide to wall mount your LCD TV, always use a UL-listed wall bracket appropriate for the size and weight of the LCD TV (page 2):

1) **CAUTION:** Two people are required for installation.

2) Unplug and remove any cables and/or other component connectors from the rear of the TV.

3) Follow the instructions provided with your wall bracket. Before proceeding, make sure the appropriate bracket(s) are attached to the wall and the back of the TV as described in the instructions provided with the wall bracket.

4) After attaching the appropriate bracket(s) to the wall and the back of the TV, remove the pedestal stand from the TV as described below.

Removing the Pedestal Stand

1) Carefully lay the front of the unit face down on a flat, cushioned surface such as a quilt or blanket. Leave the stand protruding over the edge of the surface.

**Note:** Extreme care should always be used when removing the pedestal stand to avoid damage to the LCD panel.

2) Remove the jack pack cover on the back of the TV to expose the pedestal stand screws. The jack pack cover can be removed without tools.

3) Remove the five screws shown in the diagram below. This will allow removal of the pedestal stand.

4) Once you have removed all five screws holding the pedestal stand in place, remove the pedestal stand from the TV by sliding the pedestal stand away from the TV.
FCC Declaration of Conformity
Compliance Statement (Part 15):

Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
The party responsible for compliance to these rules is:
Toshiba America Consumer Products, L.L.C.
82 Totowa Rd. Wayne, NJ 07470.
Ph: 1-800-631-3811

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by removing and applying power to the equipment, 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 the 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 to this equipment not expressly approved by Toshiba could void the user’s authority to operate this equipment.

Important notes about your LCD TV

The following symptoms are technical limitations of LCD Display technology and are not an indication of malfunction; therefore, Toshiba is not responsible for perceived issues resulting from these symptoms.
1) An afterimage (ghost) may appear on the screen if a fixed, non-moving image is displayed for a long period of time. The afterimage is not permanent and will disappear in a short period of time.
2) The LCD panel contained in this TV is manufactured using an extremely high level of precision technology; however, there may be an occasional pixel (dot of light) that does not operate properly (does not light, remains constantly lit, etc.). This is a structural property of LCD technology, is not a sign of malfunction, and is not covered under your warranty. Such pixels are not visible when the picture is viewed from a normal viewing distance.

Note: Interactive video games that involve shooting a “gun” type of joystick at an on-screen target may not work with this TV.

Trademark Information

• WOW, SRS and • symbol are trademarks of SRS Labs, Inc. WOW technology is incorporated under license from SRS Labs, Inc.
• Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are registered trademarks of Dolby Laboratories.
• HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
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Chapter 1: Introduction

Welcome to Toshiba

Thank you for purchasing this Toshiba LCD TV, one of the most innovative LCD TVs on the market. This digital television is capable of receiving analog basic, digital basic and digital premium cable television programming by direct connection to a cable system providing such programming. A security card provided by your cable operator is required to view encrypted digital programming. Certain advanced and interactive digital cable services such as video-on-demand, a cable operator’s enhanced program guide and data-enhanced television services may require the use of a set-top box. For more information call your local cable operator.

Features of your new TV

The following are just a few of the many exciting features of your new Toshiba widescreen, integrated HD, LCD TV:

- **Integrated digital tuning (8VSB ATSC and QAM)** eliminates the need for a separate digital converter set-top box (in most cases).
- **Three HDMI™ digital, high-definition multimedia interfaces 1080p input support** (page 17).
- **Two sets of ColorStream® HD high-resolution component video inputs** (page 15).
- **SRS WOW™ audio technologies** (page 57).
- **Digital Audio Out** optical audio connection with Dolby® Digital optical output format (page 46).
- **CableClear® digital picture noise reduction** (page 55).
- **PC IN (Analog RGB)** computer terminal (page 19).
- **Channel Labeling** allows you to put the Call Letters (e.g. ABC, HBO, etc.) on the screen along with the station numbers, so you always know what you’re watching (page 31).
Overview of steps for installing, setting up, and using your new TV

Follow these steps to set up your TV and begin using its many exciting features.

1. Carefully read the important safety, installation, care, and service information. Keep this manual for future reference.

2. Observe the following when choosing a location for the TV:
   - Read “Important notes about your LCD TV” (page 6).
   - Place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit. Secure the TV to a wall, pillar, or other immovable structure (page 3).
   - Place the TV in a location where light does not reflect on the screen.
   - Place the TV far enough from walls and other objects to allow proper ventilation. Inadequate ventilation may cause overheating, which will damage the TV. THIS TYPE OF DAMAGE IS NOT COVERED UNDER THE TOSHIBA WARRANTY.

3. Do not plug in any power cords until AFTER you have connected all cables and devices to your TV.

4. BEFORE connecting cables or devices to the TV, learn the functions of the TV’s connections and controls (pages 10–11).

5. Connect your other electronic device(s) to the TV (pages 12–19).

6. Install the batteries in the remote control (page 20).

7. See “Learning about the remote control” (page 21) for an overview of the buttons on the remote control.

8. Program the remote control to operate your other device(s) (pages 22–26).

9. AFTER connecting all cables and devices, plug in the power cords for your TV and other devices. The yellow LED will blink until the TV goes into standby mode. When the TV is in standby mode, press POWER on the TV control panel or remote control to turn on the TV. If the TV stops responding to the controls on the remote control or TV control panel and you cannot turn the TV off or on, press and hold the POWER button for 5 seconds to reset the TV.

10. See “Menu layout and navigation” for a quick overview of navigating the TV’s menu system (page 27).

11. Program channels into the TV’s channel memory (page 30).

12. For details on using the TV’s features, see Chapters 6 and 7.


14. For technical specifications and warranty information, see Chapter 9.

15. Enjoy your new TV!
TV front and side panel controls and connections

Model 42HL67 is used in this manual for illustration purposes.

1 Green and Yellow LEDs
Green = Power indicator
Yellow = Power-On Mode indicator ("Selecting the Power-On Mode" on page 34)
See “LED indications” on page 60 for additional information.

2 Remote sensor — Point the remote control toward this remote sensor ("Remote control effective range" on page 20).

3 VIDEO-2 IN — The side panel A/V connections are referred to as “VIDEO 2” and include standard A/V connections.

4 POWER — Press to turn the TV on and off.
If the TV stops responding to the controls on the remote control or TV control panel and you cannot turn off the TV, press and hold the \textbf{POWER} button on the TV control panel for 5 or more seconds to reset the TV.

5 ARROWS \textbf{Å}— When a menu is on-screen, these buttons function as up/down/left/right menu navigation buttons.

6 MENU (ENTER) — Press to access the menu system (pages 27–28). When a menu is on-screen, the \textbf{MENU} button on the TV’s control panel functions as the \textbf{ENTER} button.

7 EXIT — Press to instantly close an on-screen menu.

8 CHANNEL \textbf{Å} — When no menu is on-screen, these buttons change the channel (programmed channels only; see page 30).

9 VOLUME \textbf{Å} — These buttons adjust the volume level.

10 INPUT — Repeatedly press to change the source you are viewing (\textbf{ANT}, VIDEO 1, VIDEO 2, ColorStream HD1, ColorStream HD2, HDMI 1, HDMI 2, HDMI 3, PC).
Chapter 1: Introduction

TV back panel connections

For an explanation of cable types and connections, see pages 12–19.

1 ColorStream® HD-1 and ColorStream® HD-2 — Two sets of ColorStream® high-definition component video inputs (with standard stereo audio inputs) for connecting devices with component video output, such as a Toshiba DVD player with ColorStream®.

Note: Component video cables carry only video information; separate audio cables are required for a complete connection.

2 VIDEO-1 IN — Standard (composite) video and standard audio inputs plus optional S-video inputs for connecting devices with composite video or S-video output.

Note: Standard (composite) video and S-video cables carry only video information; separate audio cables are required for a complete connection.

3 Fixed Audio OUT — Analog audio outputs for connecting an audio amplifier.

4 PC/HDMI-1 (AUDIO) IN — PC audio input terminals are shared with HDMI-1 analog audio input terminals, and their use can be configured in the Audio Setup menu (see page 52).

5 PC IN — For use when connecting a personal computer.

6 ANT — Antenna input that supports analog (NTSC) and digital (ATSC) off-air antenna signals and analog and digital Cable TV (QAM) signals.

7 Digital Audio OUT — Optical audio output in Dolby Digital or PCM (pulse-code modulation) format for connecting an external Dolby Digital decoder, amplifier, A/V receiver, or home theater system with optical audio input.

8 HDMI™ IN — High-Definition Multimedia Interface input receives digital audio and uncompressed digital video from an HDMI device or uncompressed digital video from a DVI device. Also see item 4. HDMI connection is necessary to receive 1080p signals.

9 Service port — For service use only. Used for updating the television’s firmware.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are registered trademarks of Dolby Laboratories.
Chapter 2: Connecting your TV

Overview of cable types

Cables can be purchased from most stores that sell audio/video devices. Before purchasing any cables, be sure of connector types required by your devices and the length of each cable.

Coaxial (F-type) cable

Coaxial (F-type) cable is used for connecting your antenna, cable TV service, and/or cable converter box to the ANT input on your TV.

Standard A/V cables (red/white/yellow)

Standard A/V cables (composite video) usually come in sets of three, and are for use with video devices with analog audio and composite video output. These cables (and the related inputs on your TV) are typically color-coded according to use: yellow for video, red for stereo right audio, and white for stereo left (or mono) audio.

S-video cable

S-video cable is for use with video devices with S-video output. Separate audio cables are required for a complete connection.

Note: An S-video cable provides better picture performance than a composite video cable. If you connect an S-video cable, be sure to disconnect the standard (composite) video cable or the picture performance will be unacceptable.

Component video cables (red/green/blue)

Component video cables come in sets of three and are for use with video devices with component video output. (ColorStream® is Toshiba’s brand of component video.) These cables are typically color-coded red, green, and blue. Separate audio cables are required for a complete connection.

Note: Component video cables provide better picture performance than a standard (composite) video or S-video cable.

HDMI™ cable (with HDMI Logo “HDMI”)

HDMI (High-Definition Multimedia Interface) cable is for use with devices with an HDMI output. An HDMI cable delivers digital audio and video in its native format. This cable carries both video and audio information; therefore, separate audio cables are not required for a complete HDMI device connection (see page 17 and page 19).

Note: HDMI cable provides better picture performance than a standard (composite) video or S-video cable.

Optical audio cable

Optical audio cable is for connecting receivers with Dolby Digital or PCM (pulse-code modulation) optical audio input to the TV’s DIGITAL AUDIO OUT terminal (see page 18).

Analog RGB (15-pin) computer cable

Analog RGB (15-pin) computer cable is for connecting a PC to the TV’s PC IN terminal (see page 19).

About the connection illustrations

You can connect different types and brands of devices to your TV in several different configurations. The connection illustrations in this manual are representative of typical device connections only. The input/output terminals on your devices may differ from those illustrated herein. For details on connecting and using your specific devices, refer to each device’s owner’s manual.
Chapter 2: Connecting your TV

Connecting a VCR and antenna or Cable TV (no Cable box)

You will need:
- coaxial cables
- standard A/V cables
  - For better picture performance, if your VCR has S-video, use an S-video cable (plus the audio cables) instead of the standard video cable. Do not connect both types of video cable to VIDEO 1 at the same time or the picture performance will be unacceptable.
  - If you have a mono VCR, connect L/MONO on the TV to your VCR’s audio out terminal using the white audio cable only.

To view the antenna or Cable signal:
Select the ANT video input source on the TV.*

To view the VCR:
Turn ON the VCR. Select the VIDEO 1 video input source on the TV.*

* To select the video input source, press INPUT on the remote control (see page 21). To program the TV remote control to operate other devices, see Chapter 3.

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Chapter 2: Connecting your TV

Connecting a VCR with S-video and a cable box

An S-video connection will provide better picture performance than a standard (composite) video cable.

You will need:
- coaxial cables
- S-video cable
  - Do not connect both types of video cable to VIDEO 1 at the same time or the picture performance will be unacceptable.
- standard audio cables
  - If you have a mono VCR, connect L/MONO on the TV to your VCR's audio out terminal using the white audio cable only.

Note: When you use a Cable box, you may not be able to use the remote control to program or access certain features on the TV.

To view basic and premium Cable channels:
Turn OFF the VCR. Select the ANT video input source on the TV.* Tune the TV to channel 3 or 4 (whichever channel the Cable box output is set to). Use the Cable box controls to change channels.

To view the VCR:
Turn ON the VCR. Select the VIDEO 1 video input source on the TV.*

* To select the video input source, press INPUT on the remote control (see page 21). To program the TV remote control to operate other devices, see Chapter 3.

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Connecting a DVD player with ColorStream® (component video), a VCR, and a satellite receiver

Your TV has two sets of ColorStream® (component video) inputs.

You will need:
- coaxial cables
- standard A/V cables
  - For better picture performance, if your VCR has S-video, use an S-video cable (plus the audio cables) instead of the standard video cable. Do not connect both types of video cable to VIDEO 1 at the same time or the picture performance will be unacceptable.
  - If you have a mono VCR, connect L/MONO on the TV to your VCR’s audio out terminal using the white audio cable only.
- standard audio cables
- component video cables
  - You can connect the component video cables (plus audio cables) from the DVD player or satellite receiver to either set of ColorStream terminals on the TV (HD-1 or HD-2). The ColorStream HD-1 and HD-2 terminals can be used with Progressive (480p, 720p) and Interlaced (480i, 1080i) scan systems. A 1080i signal will provide the best picture performance (1080p is not supported).
  - If your DVD player or satellite receiver does not have component video, connect a standard A/V cable to VIDEO 2 on the side panel. If your DVD player has HDMI video, see page 17.
- standard audio cables
- component video cables

To view satellite programs using the component video connections:
Turn on the satellite receiver. Select the ColorStream HD-2 video input source on the TV.*

To view the VCR or view and record antenna channels:
Turn ON the VCR. Tune the VCR to the channel you want to watch. Select the VIDEO 1 video input source on the TV.*

To record a TV program while watching a DVD:
Turn ON the VCR. Tune the VCR to the channel to record. Select the ColorStream HD-1 video input source on the TV* to view the DVD.

* To select the video input source, press INPUT on the remote control (see page 21). To program the TV remote control to operate other devices, see Chapter 3.

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Connecting a camcorder

You will need:

- standard A/V cables
  - For better picture performance, if your camcorder has S-video, connect an S-video cable (plus the audio cables) to VIDEO 1 on the TV back instead of the VIDEO 2 on the TV right side panel.

To view the camcorder video:
Select the VIDEO 2 video input source on the TV.*

* To select the video input source, press INPUT on the remote control (see page 21). To program the TV remote control to operate other devices, see Chapter 3.
Connecting an HDMI™ or DVI device to the HDMI input

The HDMI input on your TV receives digital audio and uncompressed digital video from an HDMI source device, or uncompressed digital video from a DVI (Digital Visual Interface) source device.

This input is designed to accept HDCP (High-Bandwidth Digital-Content Protection) program material in digital form from EIA/CEA-861-D–compliant[1] consumer electronic devices (such as a set-top box or DVD player with HDMI or DVI output).

The HDMI input can accept and display VGA, 480i (60Hz), 480p (60Hz), 720p (60Hz), 1080i (60Hz), and 1080p (24Hz/60Hz) signal formats. For detailed signal specifications, see page 61.

Supported Audio format: Linear PCM, sampling rate 32/44.1/48 kHz

Note: To connect a PC to the HDMI input, see page 19.

To connect an HDMI device, you will need:
• one HDMI cable (type A connector) per HDMI device
  – For proper operation, it is recommended that you use an HDMI cable with the HDMI Logo ( ).
  – To display an 1080p/60Hz signal format, you will need a Category 2 cable. Conventional HDMI/DVI cable may not work properly.
  – HDMI cable transfers both video and audio. Separate analog audio cables are not required (see illustration).
  – See “Setting the HDMI™ audio mode” ( page 32).

To view the HDMI device video:
Select the HDMI 1, HDMI 2, or HDMI 3 video input source on the TV.*

* To select the video input source, press INPUT on the remote control ( page 21). To program the TV remote control to operate other devices, see Chapter 3.

To connect a DVI device, you will need:
• one HDMI-to-DVI adapter cable (HDMI type A connector) per DVI device
  – For proper operation, the length of an HDMI-to-DVI adapter cable should not exceed 9.8 ft (3m). The recommended length is 6.6 ft (2m).
• one pair of standard analog audio cables per DVI device
  – An HDMI-to-DVI adapter cable transfers video only. Separate analog audio cables are required (see illustration).
  – See “Setting the HDMI™ audio mode” ( page 32).

Note: To ensure that the HDMI or DVI device is reset properly, it is recommended that you follow these procedures:
• When turning on your electronic components, turn on the TV first, and then the HDMI or DVI device.
• When turning off your electronic components, turn off the HDMI or DVI device first, and then the TV.

[1] EIA/CEA-861-D compliance covers the transmission of uncompressed digital video with high-bandwidth digital content protection, which is being standardized for reception of high-definition video signals. Because this is an evolving technology, it is possible that some devices may not operate properly with the TV.

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[Diagram of HDMI and DVI connections]
Connecting a digital audio system

The TV’s DIGITAL AUDIO OUT terminal outputs a Dolby®* Digital or 2-channel down-mixed PCM (pulse-code modulation) signal for use with an external Dolby® Digital decoder or other external audio system with optical audio input.

You will need:
• optical audio cable (Use an optical audio cable that has the larger “TosLink” connector and not the smaller “mini-optical” connector.)

To control the audio:
1 Turn on the TV and the digital audio device.
2 Press MENU on the TV’s remote control and open the Audio menu.
3 Highlight Audio Setup and press .
4 In the Optical Output Format field, select either Dolby Digital or PCM, depending on your device (See “Selecting the optical audio output format” on page 46).

Connecting an audio system

This connection allows you to use external speakers with an external analog audio amplifier to adjust the sound level.

You will need:
• standard audio cables

To control the audio:
1 Turn on the TV and the stereo amplifier.
2 Minimize the sound volume from the TV’s built-in speakers and control the volume level using the amplifier’s remote control.

Note:
• Some audio systems may not be compatible with Dolby Digital bitstream signals. Older audio systems that are not compatible with standard optical output signals may not work properly, creating a high noise level that may damage speakers or headphones. THIS DAMAGE IS NOT COVERED BY YOUR WARRANTY.
• The DIGITAL AUDIO OUT terminal may not output some digital audio sources because of copy restrictions.

* Manufactured under license from Dolby Laboratories. Dolby, and the double-D symbol are registered trademarks of Dolby Laboratories.
Chapter 2: Connecting your TV

Connecting a personal computer (PC)

With either the PC IN or HDMI connection, you can watch your computer’s display on the TV and hear the sound from the TV’s speakers.

To connect a PC to the PC IN terminal on the TV:

When connecting a PC to the PC IN terminal on the TV, use an analog RGB (15-pin) computer cable and a PC audio cable.

- To use a PC, set the monitor output resolution on the PC before connecting it to the TV. The following signals can be displayed:

<table>
<thead>
<tr>
<th>Format</th>
<th>Resolution</th>
<th>V. Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>VGA</td>
<td>640 × 480</td>
<td>60Hz</td>
</tr>
<tr>
<td>SVGA</td>
<td>800 × 600</td>
<td>60Hz</td>
</tr>
<tr>
<td>XGA</td>
<td>1024 × 768</td>
<td>60Hz</td>
</tr>
</tbody>
</table>

Other formats or non-standard signals will not be displayed correctly.

- To display the optimum picture, use the PC setting feature (see “Using the PC settings feature” on page 51).

Note:
- The PC audio input terminals on the TV are shared with the HDMI-1 analog audio input terminals (see page 52).
- Some PC models cannot be connected to this TV.
- An adapter is not needed for computers with a compatible mini D-sub 15-pin terminal.

- Depending on the DVD’s title and the specifications of the PC on which you are playing the DVD-Video, some scenes may be skipped or you may not be able to pause during multi-angle scenes.
- Signal names for mini D-sub 15-pin connector

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Signal name</th>
<th>Pin No.</th>
<th>Signal name</th>
<th>Pin No.</th>
<th>Signal name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>R</td>
<td>6</td>
<td>Ground</td>
<td>11</td>
<td>NC</td>
</tr>
<tr>
<td>2</td>
<td>G</td>
<td>7</td>
<td>Ground</td>
<td>12</td>
<td>NC</td>
</tr>
<tr>
<td>3</td>
<td>B</td>
<td>8</td>
<td>Ground</td>
<td>13</td>
<td>H-sync</td>
</tr>
<tr>
<td>4</td>
<td>NC</td>
<td>9</td>
<td>NC</td>
<td>14</td>
<td>V-sync</td>
</tr>
<tr>
<td>5</td>
<td>NC</td>
<td>10</td>
<td>Ground</td>
<td>15</td>
<td>NC</td>
</tr>
</tbody>
</table>

*NC=Not connected

To connect a PC to the HDMI terminal on the TV:

When connecting a PC to the HDMI terminal on the TV, use an HDMI-to DVI adapter cable and analog audio cables.

If connecting a PC with an HDMI terminal, use an HDMI cable (type A connector). Separate analog cables are not necessary (see page 17).

The HDMI input can accept and display VGA, 480i (60Hz), 480p (60Hz), 720p (60Hz), 1080i (60Hz), and 1080p (24Hz/60Hz) signal formats. For detailed signal specifications, see page 61.

Note:
- The edges of the images may be hidden.
- If receiving a 720p, 1080i, or 1080p signal program, Native mode scales the video to display the entire picture within the borders of the screen (i.e. no overscanning).
Chapter 3: Using the remote control

Preparing the remote control for use

Your TV remote control can operate your TV and many other devices such as cable converter boxes, satellite receivers, VCRs, DVD players, and HTIBs (home theater in a box), even if they are different brands.

If you have a Toshiba device:
Your TV remote control is preprogrammed to operate most Toshiba devices (page 24).

If you have a non-Toshiba device or a Toshiba device that the remote control is not preprogrammed to operate:
You can program the TV remote control so it will operate the other device (pages 22–26).

Installing the remote control batteries

1. Remove the battery cover from the back of the remote control.
   Squeeze tab and lift cover.

2. Install two “AAA” size batteries, making sure to match the + and – signs on the batteries to the signs on the battery compartment.

3. Reinsert the battery cover in the remote control until the tab snaps.
   Caution: Never throw batteries into a fire.

Note:
- Be sure to use AAA size batteries.
- Dispose of batteries in a designated disposal area.
- Batteries should always be disposed of with the environment in mind. Always dispose of batteries in accordance with applicable laws and regulations.
- If the remote control does not operate correctly, or if the operating range becomes reduced, replace batteries with new ones.
- When necessary to replace batteries in the remote control, always replace both batteries with new ones. Never mix battery types or use new and used batteries in combination.

Remote control effective range

For optimum performance, aim the remote control directly at the TV and make sure there is no obstruction between the remote control and the TV.

Point remote control toward remote sensor on front of TV.

16.4 ft (5m)

30° 30°
Learning about the remote control

The buttons used for operating the TV only are described here. For a complete list of the remote control’s functions, see the remote control functional key chart (page 23).

1. **POWER** turns the TV on and off. When the TV is on, the green LED indicator on the TV front will be illuminated.
2. **PIC MODE** selects the picture mode (page 42).
3. **SLEEP** accesses the sleep timer (page 52).
4. **PIC SIZE** cycles through the picture sizes: Natural, TheaterWide 1/2/3, Full, 4:3 HD, and Native (page 39).
5. **Channel Numbers (0–9, –/100)** directly tune channels. The button is used to tune digital channels (page 38) or to edit the Favorites List (page 36).
6. **INPUT** selects the video input source (page 35).
7. **CH ▲▼** cycles through programmed channels when no menu is on-screen (page 30).
8. **VOL + –** adjusts the volume level.
9. **FAV BROWSER** accesses the Favorites List in the Channel Brower™ (page 36).
10. **RECALL** displays TV status information (page 53).
11. **CH RTN** returns to the last viewed channel or source (page 38).
12. **MUTE** reduces or turns off the sound (page 44).
13. **INFO** displays TV status information as well as program details, when available (page 53).
14. **3C / #** While watching TV, these buttons open the Channel Brower™ and tune to the previous/next channel in the channel history (page 37). (Also see “Arrow buttons.”)
15. **Arrow buttons (▲▼◄►)** When a menu is on-screen, these buttons select or adjust programming menus. (Also see ▼◄►.)
16. **ENTER** activates highlighted items in the main menu system.
17. **MENU** accesses the main TV menu system (pages 27 and 28).
18. **EXIT** closes on-screen menus.
19. **MODE SELECT switch** switches between TV, CABLE/SAT, AUX 1, and AUX 2 modes (page 22). Set to “TV” to control the TV.

**Note:** The error message “Not Available” may appear if you press a key for a function that is not available.
Chapter 3: Using the remote control

Using the remote control to control your other devices

If you have a non-Toshiba device or a Toshiba device that the remote control is not preprogrammed to operate, you must first program the remote control to recognize the device (if you have not already done so) (pages 24–26).

To use your TV remote control to operate a:

- Cable converter box or satellite receiver, set the MODE SELECT switch to CABLE/SAT.
- VCR, set the MODE SELECT switch to AUX 1.
- DVD player or HTIB, set the MODE SELECT switch to AUX 2.

Note: Even after the TV remote control is programmed, it may not operate certain features on any other devices. If this happens and you wish to use those features, you will need to use the device’s original remote control.

Point the remote control directly at the device.

1 POWER Turns the selected device on and off.
2 Channel Numbers (0-9) Press to directly access channels (as opposed to \( < \)).
3 +10 Press to directly access DVD chapters higher than 10.
4 TOP MENU Accesses a DVD’s top menu.
5 CH ▲▼ For channels programmed into the channel memory (page 38):
   ▲ selects the next higher channel.
   ▼ selects the next lower channel.
6 GUIDE Displays the channel guide in the CABLE/SAT mode.
   SET UP Accesses a DVD’s setup menu in the AUX mode.
7 INFO Displays TV status information on-screen.
8 ▲▼◄► Press to navigate DVD menus (may not work on some DVD players).
9 ENTER Required by some satellite receivers and DVD players to activate certain functions.
10 DVD CLEAR Press to reset the title and chapter number.
11 PLAY Begins playback of a tape or DVD.
12 PAUSE Press during play or record mode to pause the picture; press again to restart.
13 STOP Stops the tape or DVD.
14 SKIP ▶▶Skips forward to locate later DVD chapters.
15 FF Fast-forwards the tape or DVD. (Press during play mode to view the picture moving rapidly forward.)
16 SKIP ◀◀Skips back to beginning of current DVD chapter, or locates previous chapters.
17REW Rewinds/reverses the tape or DVD. (Press during play mode to view the picture moving rapidly backward.)
18 TV/VCR To view one program while recording another, press to select TV mode.
   SEARCH selects a specific DVD chapter, title or time.
19 REC Starts tape recording.
20 MODE SELECT switch Set to “TV” to control the TV; “CABLE/SAT” to control a cable converter box or satellite receiver; “AUX 1” to control a VCR; “AUX 2” to control a DVD player or HTIB.
# Chapter 3: Using the remote control

## Remote Control functional key chart

**Note:**
- "---" = key does not send a signal in that remote control mode.
- "=TV" = key will affect the TV, even though the remote control is in another mode.
- * Not available for your TV.

<table>
<thead>
<tr>
<th>REMOTE CONTROL KEY</th>
<th>Toshiba TV</th>
<th>CABLE</th>
<th>SAT (satellite)</th>
<th>AUX 1 (VCR)</th>
<th>AUX 2 (DVD or HTIB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>POWER</td>
<td>Power</td>
<td>Power</td>
<td>Power</td>
<td>Power</td>
<td>Power</td>
</tr>
<tr>
<td>SLEEP</td>
<td>Sleep timer</td>
<td>← TV</td>
<td>← TV</td>
<td>← TV</td>
<td>← TV</td>
</tr>
<tr>
<td>PIC SIZE</td>
<td>Picture size</td>
<td>← TV</td>
<td>← TV</td>
<td>← TV</td>
<td>← TV</td>
</tr>
<tr>
<td>PIC MODE</td>
<td>PIC MODE</td>
<td>← TV</td>
<td>← TV</td>
<td>← TV</td>
<td>← TV</td>
</tr>
<tr>
<td>1-9</td>
<td>Digit 1-9</td>
<td>Digit 1-9</td>
<td>Digit 1-9</td>
<td>Digit 1-9</td>
<td>Digit 1-9</td>
</tr>
<tr>
<td>0</td>
<td>Digit 0</td>
<td>Digit 0</td>
<td>Digit 0</td>
<td>Digit 0</td>
<td>Digit 0</td>
</tr>
<tr>
<td>100/+10</td>
<td>– (sub CH)</td>
<td>– (sub CH)</td>
<td>100</td>
<td>+10</td>
<td></td>
</tr>
<tr>
<td>INPUT</td>
<td>TV/Video select</td>
<td>← TV</td>
<td>← TV</td>
<td>← TV</td>
<td>← TV</td>
</tr>
<tr>
<td>FAV BROWSER/ TOP MENU</td>
<td>FAV BROWSER</td>
<td>---</td>
<td>---</td>
<td>Top Menu</td>
<td></td>
</tr>
<tr>
<td>MUTE</td>
<td>Sound mute</td>
<td>← TV</td>
<td>← TV</td>
<td>← TV</td>
<td>← TV</td>
</tr>
<tr>
<td>SET UP/GUIDE</td>
<td>Guide*</td>
<td>---</td>
<td>SAT Guide</td>
<td>---</td>
<td>Setup</td>
</tr>
<tr>
<td>VOL +/-</td>
<td>Volume up/down</td>
<td>← TV</td>
<td>← TV</td>
<td>← TV</td>
<td>← TV</td>
</tr>
<tr>
<td>CH▲▼</td>
<td>Channel up/down</td>
<td>Channel up/down</td>
<td>Channel up/down</td>
<td>Channel up/down</td>
<td>...</td>
</tr>
<tr>
<td>RECALL</td>
<td>RECALL</td>
<td>← TV</td>
<td>← TV</td>
<td>← TV</td>
<td>← TV</td>
</tr>
<tr>
<td>CH RTN/DVD RTN</td>
<td>Previous channel</td>
<td>DVD previous menu*</td>
<td>---</td>
<td>---</td>
<td>DVD Return</td>
</tr>
<tr>
<td>INFO</td>
<td>Info</td>
<td>---</td>
<td>Info</td>
<td>---</td>
<td>Display</td>
</tr>
<tr>
<td>ENTER</td>
<td>Enter</td>
<td>---</td>
<td>Select, Enter</td>
<td>---</td>
<td>Enter</td>
</tr>
<tr>
<td>▲▼</td>
<td>Menu up/down</td>
<td>---</td>
<td>Menu up/down</td>
<td>---</td>
<td>Menu up/down</td>
</tr>
<tr>
<td>◀▶</td>
<td>Menu left/ Channel Browser™</td>
<td>---</td>
<td>Menu left</td>
<td>---</td>
<td>Menu left</td>
</tr>
<tr>
<td>◀▶</td>
<td>Menu right/ Channel Browser™</td>
<td>---</td>
<td>Menu right</td>
<td>---</td>
<td>Menu right</td>
</tr>
<tr>
<td>MENU</td>
<td>Menu</td>
<td>---</td>
<td>Action Menu</td>
<td>---</td>
<td>DVD Menu</td>
</tr>
<tr>
<td>EXIT/DVD CLEAR</td>
<td>Exit</td>
<td>---</td>
<td>Exit</td>
<td>---</td>
<td>DVD Clear</td>
</tr>
<tr>
<td>PAUSE/STEP</td>
<td>Pause*</td>
<td>---</td>
<td>---</td>
<td>Pause</td>
<td>Pause</td>
</tr>
<tr>
<td>PLAY</td>
<td>Play*</td>
<td>---</td>
<td>---</td>
<td>Play</td>
<td>Play</td>
</tr>
<tr>
<td>STOP</td>
<td>Stop*</td>
<td>---</td>
<td>---</td>
<td>Stop</td>
<td>Stop</td>
</tr>
<tr>
<td>SKIP ▶▶</td>
<td>Skip REV*</td>
<td>---</td>
<td>---</td>
<td>Skip REV</td>
<td></td>
</tr>
<tr>
<td>SKIP ▶▶</td>
<td>Skip FWD*</td>
<td>---</td>
<td>---</td>
<td>Skip FWD</td>
<td></td>
</tr>
<tr>
<td>REW</td>
<td>Rewind*</td>
<td>---</td>
<td>---</td>
<td>Rewind</td>
<td>Rewind</td>
</tr>
<tr>
<td>FF</td>
<td>Fast FWD*</td>
<td>---</td>
<td>---</td>
<td>Fast FWD</td>
<td>Fast FWD</td>
</tr>
<tr>
<td>TV/VCR/SEARCH</td>
<td>DVD search*</td>
<td>---</td>
<td>---</td>
<td>TV/VCR</td>
<td>DVD search</td>
</tr>
<tr>
<td>REC</td>
<td>REC MENU*</td>
<td>---</td>
<td>Record (2 click)</td>
<td>---</td>
<td></td>
</tr>
<tr>
<td>SLOW –</td>
<td>SLOW REW*</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td></td>
</tr>
<tr>
<td>SLOW +</td>
<td>SLOW FWD*</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td></td>
</tr>
<tr>
<td>ANGLE</td>
<td>Angle*</td>
<td>---</td>
<td>---</td>
<td>DVD Angle</td>
<td></td>
</tr>
<tr>
<td>SUB TITLE</td>
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<td>DVD Sub title</td>
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<td>EJECT</td>
<td>Eject*</td>
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<td>DVD Eject</td>
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</table>
Programming the remote control to control your other devices

Your Toshiba TV remote control is preprogrammed to operate most Toshiba devices. To program your TV remote control to operate a non-Toshiba device (or a Toshiba device that it is not preprogrammed to operate), follow the steps below. For details on using the remote control to operate the device, see page 22.

1. In the remote control code table (see page 25), find the code for your device. If more than one code is listed, try each one separately until you find one that works.

2. Set the MODE SELECT switch to the type of device you are programming the remote control to operate — CABLE/SAT (for a cable converter box or satellite receiver), AUX 1 (for a VCR or TV/VCR combo), or AUX 2 (for a DVD player or HTIB [home theater in a box]).

3. While holding down RECALL, press the Channel Number buttons to enter the 3-digit code for your device.

4. To test the code, turn on the device, point the remote control at it, and press POWER. See notes below.
   - If the correct code was entered, the device will turn off.
   - If the device does not respond, repeat steps 1–4 using another code.
   - If the device does not respond to another code, you will need to use the remote control that came with the device.

5. Remember to set the MODE SELECT switch back to “TV” to control the TV.

6. For future reference, write down the code(s) you used:

<table>
<thead>
<tr>
<th>DEVICE CODE</th>
<th>DEVICE CODE</th>
</tr>
</thead>
</table>

Note:
- In addition to POWER, confirm that all necessary keys on the TV remote control operate your device. If some keys are not operational, repeat the device code setup using another code (if other codes are listed for your device). If, after trying all listed codes, the necessary keys do not operate your device, use the device’s original remote control.
- Every time you change the batteries, you will need to reprogram the remote control.
- Some newer VCRs respond to either of two codes. These VCRs have a switch labeled “VCR1/VCR2.” If your VCR has this kind of switch and does not respond to the codes for your VCR brand, set the switch to the other position (“VCR1” or “VCR2”) and reprogram the remote control.
### Chapter 3: Using the remote control

#### Remote control codes

In some cases you may not be able to operate your device with the TV remote control. Your other device may use a code that is not recognized by the TV remote control. If this happens, use the device’s remote control.

#### Cable converter box

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<td>Contec</td>
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#### DVD player

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#### Portable DVD player

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(continued)
## Chapter 3: Using the remote control

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<td>075</td>
</tr>
<tr>
<td>Singer</td>
<td>047, 061</td>
</tr>
<tr>
<td>Sony</td>
<td>004, 032, 033, 041, 052, 058, 070, 074, 076, 077, 080</td>
</tr>
<tr>
<td>STS</td>
<td>035</td>
</tr>
<tr>
<td>Sylvania</td>
<td>018, 026, 027, 028, 044, 072</td>
</tr>
<tr>
<td>Symphonic</td>
<td>018, 050, 051, 053, 073, 079</td>
</tr>
<tr>
<td>Tandy</td>
<td>007</td>
</tr>
<tr>
<td>Tashiko</td>
<td>010</td>
</tr>
<tr>
<td>Tatung</td>
<td>037</td>
</tr>
<tr>
<td>Teac</td>
<td>018, 029, 037</td>
</tr>
<tr>
<td>Technics</td>
<td>036</td>
</tr>
<tr>
<td>Teknika</td>
<td>010, 018, 065</td>
</tr>
<tr>
<td>Toshiba</td>
<td>000, 011, 021, 023, 024, 028, 030, 039, 057, 074, 078, 079</td>
</tr>
<tr>
<td>Totevision</td>
<td>009, 010, 065</td>
</tr>
<tr>
<td>Unitec</td>
<td>073</td>
</tr>
<tr>
<td>Unitech</td>
<td>009</td>
</tr>
<tr>
<td>Vector Research</td>
<td>005, 006, 011, 012, 053</td>
</tr>
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### Video Concepts

<table>
<thead>
<tr>
<th>Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>005, 006, 011, 012, 039, 053</td>
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### Wards

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<tr>
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<tbody>
<tr>
<td>009, 010, 011, 016, 018, 020, 024, 025, 031, 035, 049, 051, 056, 057, 060, 065, 066, 079</td>
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### White Westinghouse

<table>
<thead>
<tr>
<th>Codes</th>
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<tbody>
<tr>
<td>073</td>
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### XR-1000

<table>
<thead>
<tr>
<th>Codes</th>
</tr>
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<tbody>
<tr>
<td>018</td>
</tr>
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</table>

### Yamaha

<table>
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<tr>
<th>Codes</th>
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</thead>
<tbody>
<tr>
<td>005, 006, 007, 014, 037, 053</td>
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</tbody>
</table>

### Zenith

<table>
<thead>
<tr>
<th>Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>004, 032, 034, 041, 047, 069, 086</td>
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</tbody>
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### HTIB

<table>
<thead>
<tr>
<th>Brands</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lasonic</td>
</tr>
<tr>
<td>Panasonic</td>
</tr>
<tr>
<td>Venturer</td>
</tr>
</tbody>
</table>
Chapter 4: Menu layout and navigation

Main menu layout

The tables below and on the next page provide a quick overview of your TV’s menu system. To open the main menus (illustrated below), press \textit{MENU} on the remote control or TV control panel.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Item</th>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video</td>
<td>Mode</td>
<td>Sports/Standard/Movie/Preference</td>
</tr>
<tr>
<td></td>
<td>Picture Settings</td>
<td>[Opens the Picture Settings menu]</td>
</tr>
<tr>
<td></td>
<td>Noise Reduction</td>
<td>[Opens the Noise Reduction menu]</td>
</tr>
<tr>
<td></td>
<td>Game Mode</td>
<td>On/Off</td>
</tr>
<tr>
<td></td>
<td>Theater Settings</td>
<td>[Opens the Theater Settings menu]</td>
</tr>
<tr>
<td>Audio</td>
<td>Digital Audio Selector</td>
<td>[Launches the temporary Audio Selector]</td>
</tr>
<tr>
<td></td>
<td>Audio Settings</td>
<td>[Opens the Audio Settings menu]</td>
</tr>
<tr>
<td></td>
<td>Advanced Audio Settings</td>
<td>[Opens the Advanced Audio Settings menu]</td>
</tr>
<tr>
<td></td>
<td>Audio Setup</td>
<td>[Opens the Audio Setup menu]</td>
</tr>
<tr>
<td>Preferences</td>
<td>CC Selector</td>
<td>[Launches the temporary CC Selector]</td>
</tr>
<tr>
<td></td>
<td>Base CC Mode</td>
<td>Off/CC1/CC2/CC3/CC4/T1/T2/T3/T4</td>
</tr>
<tr>
<td></td>
<td>Digital CC Settings</td>
<td>[Opens the Digital CC Setup menu]</td>
</tr>
<tr>
<td></td>
<td>Input Labeling</td>
<td>[Opens the Input Labeling menu]</td>
</tr>
<tr>
<td></td>
<td>Channel Labeling</td>
<td>[Opens the Channel Labeling menu]</td>
</tr>
<tr>
<td></td>
<td>Menu Language</td>
<td>English/French/Spanish</td>
</tr>
<tr>
<td></td>
<td>Channel Browser Setup</td>
<td>[Opens the Channel Browser Setup menu]</td>
</tr>
<tr>
<td>Locks</td>
<td>Enable Rating Blocking</td>
<td>Off/On</td>
</tr>
<tr>
<td></td>
<td>Edit Rating Limits</td>
<td>[Opens the Edit Rating Limits menu]</td>
</tr>
<tr>
<td></td>
<td>Channels Block</td>
<td>[Opens the Channels block menu]</td>
</tr>
<tr>
<td></td>
<td>Input Lock</td>
<td>Off/Video/Video+</td>
</tr>
<tr>
<td></td>
<td>Front Panel Lock</td>
<td>Off/On</td>
</tr>
<tr>
<td></td>
<td>New PIN Code</td>
<td>[Opens the New PIN Code entry screen]</td>
</tr>
<tr>
<td>Setup</td>
<td>Installation</td>
<td>[Opens the Installation menu (\textit{page 28})]</td>
</tr>
<tr>
<td></td>
<td>Sleep Timer</td>
<td>[Opens the Sleep Timer menu]</td>
</tr>
<tr>
<td></td>
<td>PC Settings</td>
<td>[Opens the PC Settings menu]</td>
</tr>
<tr>
<td></td>
<td>Power-On Mode</td>
<td>Power-Saving/Fast</td>
</tr>
</tbody>
</table>
Chapter 4: Menu layout and navigation

Setup/Installation menu layout

The Installation menu contains the Terrestrial and System Status menus.
To open the Installation menu (illustrated below), press \textit{\textbf{Y}} on the remote control or TV control panel, open the Setup menu, select Installation, and press \textit{\textbf{T}}.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Item</th>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Press \textit{\textbf{Y}}, open the Setup menu, and then open the Installation sub-menu.</td>
<td>Terrestrial</td>
<td>Input Configuration \textit{\textbf{→}} [Opens the Input Configuration menu]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Channel Program \textit{\textbf{→}} [Start] \textit{\textbf{→}} [Scans for new channels on ANT]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Channel Add/Delete \textit{\textbf{→}} [Opens the Channel Add/Delete menu]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Signal Meter \textit{\textbf{→}} [Opens the Signal Meter menu]</td>
</tr>
<tr>
<td>System Status</td>
<td></td>
<td>System Information \textit{\textbf{→}} [Opens the System Information screen]</td>
</tr>
</tbody>
</table>

Navigating the menu system

You can use the buttons on the remote control or TV control panel to access and navigate your TV’s on-screen menu system.

- Press \textit{\textbf{Y}} to open the menu system.
- When a menu is open, use the up/down/left/right arrow buttons (\textbullet\textbullet\textbullet\textbullet) on the remote control or TV control panel to move in the corresponding direction in the menu.
- Press \textit{\textbf{OK}} to save your menu settings or select a highlighted item. (A highlighted menu item appears in a different color in the menu.)
- All menus close automatically if you do not make a selection within 60 seconds, except the signal meter menu, which closes automatically after about 5 minutes.
- To close a menu instantly, press \textit{\textbf{EXIT}}.

Note:

- The menu background may sometimes appear black, depending on the signal the TV is receiving. This is not a sign of malfunction.

- The Video sub-menu appears with a black background, which looks different from other menus.
Chapter 5: Setting up your TV

Selecting the menu language

You can choose from three different languages (English, French and Spanish) for the on-screen display of menus and messages.

To select the menu language:
1 Press \( \text{MENU} \) and open the Preferences menu.
2 Highlight Menu Language and press \( \text{T} \).
3 Press \( \text{A} \) or \( \text{B} \) to select your preferred menu language and press \( \text{T} \).
4 Press \( \text{EXIT} \) to close the Preferences menu.

Configuring the antenna input source for the ANT terminal

To configure the ANT input source:
1 Press \( \text{MENU} \) and open the Setup menu.
2 Highlight Installation and press \( \text{T} \).
3 (A new set of Installation menu icons will appear, as shown below.) Open the Terrestrial menu, highlight Input Configuration, and press \( \text{T} \).
4 Press \( \text{A} \) or \( \text{B} \) to select the input source (Cable or Antenna) for the ANT input on the TV.
5 To save your new settings, highlight Done and press \( \text{T} \). To revert to your original settings, highlight Cancel and press \( \text{T} \).
Chapter 5: Setting up your TV

Programming channels into the TV’s channel memory

When you press < or > on the remote control or TV control panel, your TV will stop only on the channels you programmed into the TV’s channel memory.

Follow the steps below to program channels into the TV’s channel memory.

Programming channels automatically

Your TV can automatically detect all active channels in your area and store them in its memory. After the channels are programmed automatically, you can manually add or erase individual channels in the channel memory.

Note:
- You must configure the antenna input source before programming channels (see page 29).
- If the Antenna input signal type is set to Cable, the automatic channel programming process erases channels that were previously programmed into the TV’s memory.
- If the Antenna input signal type is set to Antenna, the automatic channel programming process adds newly found channels to the existing set of programmed channels (and does NOT erase channels that were previously programmed into the TV’s memory.) To remove an Antenna source channel from the memory, you must manually delete it.
- To tune the TV to a channel not programmed in the channel memory, you must use the Channel Number buttons on the remote control.
- Programming channels when the antenna input is configured for Cable will take substantially longer than when the antenna input is configured for Antenna. This is normal; however, once channel programming is finished, you should not have to repeat the programming process again unless your Cable TV service lineup changes significantly.

To program channels automatically:

1. Configure the antenna input source, if you have not already done so (see page 29).
2. Press MENU and open the Setup menu.
3. Highlight Installation and press OK.
4. (A new set of Installation menu icons will appear, as shown below.) Open the Terrestrial menu, highlight Channel Program to bring up the Start, and press OK again to begin channel programming.

The TV will automatically cycle through all the antenna channels, and store all active channels in the channel memory. While the TV is cycling through the channels, the message “Scanning channels, please wait” appears (as shown above).

5. To cancel channel programming, press EXIT on the remote control (or highlight Abort in the on-screen display and press OK). When channel programming is finished, press < or > to view the programmed channels.

Manually adding and deleting channels in the channel memory

After automatically programming channels into the channel memory, you can manually add or delete individual channels.

To add or delete channels in the channel memory:

1. Press MENU and open the Setup menu.
2. Highlight Installation and press OK.
3. (A new set of Installation menu icons will appear, as shown below.) Open the Terrestrial menu, highlight Channel Add/Delete, and then press OK.

Setup

Installation

Sleep Timer

PC Settings

Power-On Mode Power-Saving
Chapter 5: Setting up your TV

To add a channel to the channel memory:
Highlight the unchecked box next to the channel number you want to add, and then press \textbf{T} to check the box.

To manually add digital subchannels on a physical channel:
Use the Channel Numbers and the Dash (\textbf{–}) on the remote control to enter the channel number (for example, 56–1).
If the channel is found, the number will be added to the list and the box will be checked.
If the channel is not found, a message will appear.

To remove a channel from the channel memory:
Highlight the checked box next to the channel number you want to remove, and then press \textbf{T} to uncheck the box.

To save your new settings:
Highlight \textbf{Done} and press \textbf{T}.

To revert to your original settings:
Highlight \textbf{Cancel} and press \textbf{T} before saving.

To remove all channels from the channel memory:
Highlight \textbf{Reset} and press \textbf{T}, and then highlight \textbf{Done} and press \textbf{T}.

To remove encrypted channels from the channel memory:
If an encrypted channel is accidentally added to the channel list by programming channels, you can remove the unwanted encrypted (non-viewable) channel while you are channel surfing. When you tune to an encrypted channel, the following message will appear.

Press “\textbf{1}” button while the message is on the screen to remove the unnecessary channel from the channel list.

**Labeling channels**

A list of common channel labels (logos) for various channels (ABC, CBS, etc.) will be programmed into the TV. You will be able to view and assign these logos from the Channel Labeling window. If the desired channel label is not provided in the list, you will be able to manually enter/edit labels using the software keyboard.

To assign channel labels:
1. Press \textbf{MENU} and open the Preferences menu.
2. Highlight Channel Labeling and press \textbf{OK}.
The Channel Labeling window opens.

3. Press or \textbf{\textup{\textdownarrow}} to select the channel you want to label.
4. Press \textbf{\textup{\textdownarrow} \textup{\textup{\textdownarrow}}} to highlight the desired channel label and press \textbf{OK}.
5. Repeat steps 3 and 4 for other channels.
6. To save your settings, highlight \textbf{Done} and press \textbf{OK}.

The maximum number of labels that can be stored is 128.

To remove channel labels:
1. Open the Channel Labeling window.
2. Press \textbf{\textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdownarrow}}} \textup{\textup{\textup{\textdown}}}
3. Press ▲▼◄► to highlight No Label and press ®.

4. Repeat steps 2 and 3 for other channels.

5. To save your settings, highlight Done and press ®.

If the desired channel label is not available from the list of presets, you can create a custom label.

To create and assign a custom label:

1. Open the Channel Labeling window.
2. Press ▼ or ▲ to select a channel you want to label.
3. Press ▲▼◄► to highlight Custom and press ®.
   The software keyboard will appear.
4. Repeatedly press the corresponding key on the remote control to highlight the desired character on the on-screen software keyboard.
5. The highlighted character is entered after you either press a different key, press ® key, or after a two-second pause.
6. Repeat steps 4 and 5 until you have entered all desired text.
7. When finished, press ®.
8. (New labels will be added to the list in alphabetical order and marked with an icon / to indicate that they are custom.) Highlight the new custom label and press ® to assign. Assigned channel labels will be displayed in the banner, Channel Add/Delete window, and Channels Block window.

To delete the custom label:

1. Open the Channel Labeling window.
2. Highlight the label to be deleted and press ®.
Chapter 5: Setting up your TV

Viewing the digital signal meter

You can view the digital signal meter in the ANT digital TV input source only.

To view the digital signal meter:

1. Press \( \Rightarrow \) and open the Setup menu.
2. Highlight Installation and press \( \Rightarrow \).
3. A new set of Installation menu icons will appear, as shown below. Open the Terrestrial menu, highlight Signal Meter, and press \( \Rightarrow \).

4. Press \( \Rightarrow \) to select the antenna input and digital channel whose signal you want to check.

   \textbf{Note:} The physical digital channel number listed in the Signal Meter screen may not correspond to a virtual TV channel number. Contact your local broadcasters to obtain the RF channel numbers for your local digital stations.

To close the screen and return to the Terrestrial menu:
Highlight Done and press \( \Rightarrow \).

To return to normal viewing:
Press \( \Rightarrow \).

---

Viewing the system status

To view the system status:

1. Press \( \Rightarrow \) and open the Setup menu.
2. Highlight Installation and press \( \Rightarrow \).
3. A new set of Installation menu icons will appear, as shown below. Open the System Status menu, highlight System Information, and press \( \Rightarrow \).

4. Press \( \Rightarrow \) to scroll through the menu bar to select the Software Version and view the related information.

To close the screen and return to the Installation menu:
Highlight Done and press \( \Rightarrow \).

To return to normal viewing:
Press \( \Rightarrow \).

Reset Factory Defaults

To reset all settings and channels to their factory default values:

1. Press \( \Rightarrow \) and open the Setup menu.
3. Open the System Status menu, highlight System Information, and press \( \Rightarrow \).
4. Press \( \Rightarrow \) to scroll through the menu bar to select Factory Defaults.

5. Enter your PIN code (or 0000 if no PIN code has been set).

\textbf{(continued)}
6 Highlight Yes and press \( \text{\textcircled{Y}} \). The TV will turn off automatically after a few seconds. After the TV turns off, unplug the TV power cord and then plug it in again to complete the reset process.

To cancel the reset:
Highlight No and press \( \text{\textcircled{N}} \).

### Selecting the Power-On Mode

You can select either Power-Saving or Fast mode.

- **Power-Saving** mode keeps power consumption in standby mode to below 3W. As a result, it takes a bit longer to turn on.
- **Fast** mode increases power consumption in standby mode. As a result, the TV will turn on quicker. While in Fast mode, the yellow LED on the TV front will be lit.

To set the Power-On Mode feature:

1. Press \( \text{\textcircled{Y}} \), and open the Setup menu.
2. Highlight Power-On Mode and press \( \text{\textcircled{U}} \).
3. Press \( \text{\textcircled{A}} \) or \( \text{\textcircled{V}} \) to select either Power-Saving or Fast.
Chapter 6: Using the TV’s features

Selecting the video input source to view

To select the video input source to view:

1. Press + on the remote control or TV control panel.
2. And then either:
   a) Press 0–8; or
   b) Repeatedly press ▲▼ on the remote control and then press + to change the input; or
   c) Repeatedly press + on the remote control or TV control panel to change the input.

The current signal source displays in the top right corner of the Input Selection screen.

Note:
- You can label the video input sources according to the specific devices you have connected to the TV (see “Labeling the video input sources” at right).
- Sources can be “hidden” (see “Labeling the video input sources” at right).
- “No Video Signal” will appear randomly on the screen if no signal is received in video input mode.

Labeling the video input sources

You can label each video input source according to the type of device you connected to each source, from the following preset list of labels:
- – – (default label)
- Audio Receiver
- Cable
- Compact Disc
- DTV
- DVD
- Game Console
- HD DVD
- Laser Disk
- Satellite/DSS
- VCR
- Video Recorder
- Hide (to hide an unused input in the Input Selection screen)

Note: If you select PC in the Input Selection screen, you can choose only “– –” or “Hide” as the label.

To label the video input sources:

1. Press MENU and open the Preferences menu.
2. Highlight Input Labeling and press ●.
3. Press ▲ or ▼ to highlight the video source you want to label.

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(continued)
Chapter 6: Using the TV’s features

4 Press < or > to select the desired label for that input source. If a particular input is not used, you can select Hide as the label, which will cause that input to be “grayed out” in the Input Selection screen and skipped over when you press INPUT on the remote control.

5 To save the new input labels, highlight Done and press T.

To revert to the factory default labels, highlight Reset and press T.

Input labeling example:
The screen below left shows the default Input Selection screen (with none of the inputs labeled as a specific device). The screen below right is an example of how you could label the inputs if you connected a VCR to VIDEO 1, Cable TV to VIDEO 2, a video recorder to ColorStream HD1, a DTV set-top box to HDMI 1, a satellite/DSS set-top box to HDMI 2, and a DVD player to HDMI 3. Also note that the ColorStream HD2 input is labeled “Hidden,” which means that input will be skipped over when INPUT is pressed.

To clear the input labels:
1 Press MENU and open the Preferences menu.
2 Highlight Input Labeling and press T.
3 Highlight Reset and press T.

Tuning channels

Tuning channels using the Channel Browser™
The Channel Browser™ provides an easy navigation interface for all your channels and inputs. This feature allows you to:
• Navigate the contents of all of your inputs.
• Keep a list of your favorite channels (see “Favorites Browser,” below).
• Keep a history of the last 32 channels or inputs viewed.
• Quickly surf and tune your recently viewed channels/inputs from the Channel Browser™ History List (illustrated on the next page).
• Surf via Browse mode (to immediately tune channels as you highlight them in the Channel Browser™) or Select mode (to surf over channels in the Channel Browser™ before you select one to tune).
• Quickly change inputs from the Inputs List.

Favorites Browser
The Favorites Browser allows you to quickly set up a favorite channels/inputs list that is integrated into the Channel Browser™.

To add a favorite channel/input:
1 Tune to the channel or input.
2 Press and hold FAV BROWSER for 3 seconds.

Note: Additions are added to the beginning of the Favorites list on the left side of the Channel Browser™.

To delete a favorite channel/input:
1 Press FAV BROWSER to open the Favorites browser list.
2 Highlight the channel or input to delete by pressing < or >.
3 Press and hold T for 3 seconds. The channel/input will be removed from the Favorites list.

To set up the Channel Browser™:
1 Press MENU and open the Preferences menu.
2 Highlight Channel Browser Setup and press T.
3 Press ▲ to highlight Navigation, and then press ◄ or ► to select either Browse Mode or Select Mode.
Chapter 6: Using the TV’s features

4 Press ▼ to highlight History List, and then press ◄ or ► to select the setting you prefer: either Power Off Clear (On), On, or Off.

   Note: When History List is set to On and the Power-On Mode (see page 34) is in Fast mode, the channels and inputs stored in the list will be saved every power on/off cycle. When History List is set to Power Off Clear (On), the channels and inputs stored in the list will be cleared with every power on/off cycle of the TV.

5 Press ▼ to highlight ANT List, and then press ◄ or ► to select On or Off.

6 Press ▼ to highlight Inputs List, and then press ◄ or ► to select On or Off.

7 Press ▼ to highlight Favorites List, then press ◄ or ► to select On or Off.

8 To save your entries, highlight Done and press ◄. To return to factory defaults, highlight Reset and press ◄.

To open the Channel Browser™:
• Press ◄ or ◄ on the remote control.
• Press ◄ to surf backward through the previously tuned 32 channels in the History list, the channels in the ANT channel list, the inputs in the Inputs list, or the favorite channels/inputs in Favorites list.
• Press ◄ to surf forward through the channel History, the ANT channel list, the Inputs list, or the favorite channels/inputs in Favorites list.

Elements of the Channel Browser™

- 1 Current list (History, ANT, Inputs, or Favorites)
- 2 Input type
- 3 Channel or input currently being viewed
- 4 Channel or input that is currently highlighted in the browser
- 5 Channels stored in the History List
- 6 Channel labels

To toggle among the available lists:
After opening the Channel Browser™, press ▲ or ◄ to toggle among History, ANT, Inputs, and Favorites.

   Note:
• The Channel Browser™ opens in History List by default. Once another list has been selected, the Channel Browser™ will open in the last selected list.

   • If all lists are turned off, pressing ◄, ◄, ◄, or ◄ will not display the Channel Browser™. If Favorites List is turned off, ◄ will have no effect.

To tune to a channel or input in Browse mode:

1 While watching TV, press ◄ or ◄ to open the Channel Browser™ and surf back to a previous item or surf forward to the next item in the list.

   In Browse mode, when you stop on an item in the Channel Browser™, it will be highlighted and the TV will automatically tune to the channel or input.

2 Press ◄ to close the Channel Browser™.

To tune to a channel or input in Select mode:

1 While watching TV, press ◄ or ◄ to open the Channel Browser™ and surf back to a previous item or forward to the next item in the list.

   In Select mode, when you stop on an item in the Channel Browser™, it will be highlighted but you must press ◄ to tune the TV to the highlighted item.

2 Press ◄ to tune the TV to the highlighted item.

3 Press ◄ to close the Channel Browser™.

Adding and clearing channels and inputs in the History List

Adding channels and inputs to the History List:
As a channel or input is tuned, the Channel Browser™ adds it to the History List and displays it on the “right side” of the Channel Browser™. Previously tuned channels/inputs are “shifted” to the left, eventually moving off the left side. Press ◄ to surf backward through the previously tuned channels/inputs. Any channel or input that is tuned repeatedly will not be repeated in the History List, but instead is moved to the end of the list on the right side of the Channel Browser™.

The Channel Browser™ will store the following channels:
• All channels that are tuned using the numeric buttons on the remote control.
• All channels that are tuned using ◄ or ◄ on the remote control.

   Note: Whenever an item is selected that cannot be tuned (for various reasons), the TV will automatically tune to the previously viewed channel or input.

(continued)
Clearing channels from the History List:
- Reconfiguring the ANT input will clear the History List.
  Note: See page 29 for details on configuring the antenna input.
- Once 32 channels or inputs are stored in the History List, the oldest item will be removed from the list when a new channel or input is tuned.
- If History List in the Channel Browser Setup is set to “Power Off Clear (On),” turning off the TV will clear the History List.

Tuning to the next programmed channel

To tune to the next programmed channel:
Press \( \text{< or >} \) on the remote control or TV control panel.
Note: This feature will not work unless you program channels into the TV’s channel memory (see page 30).

Tuning to a specific channel (programmed or unprogrammed)

Tuning analog channels:
Press the Channel Number (0–9) on the remote control. For example, to select channel 125, press 1, 2, 5.

Tuning digital channels:
Press the Channel Number (0–9) on the remote control, followed by the dash (\( \text{=} \)) button and then the sub-channel number. For example, to select digital channel 125-1, press 1, 2, 5, \( \text{=} \), 1.
Note: If a digital channel is not programmed—either through the automatic channel scan (see page 30) or the channel add/delete function (see page 30)—you will have to tune the RF channel using the Channel Number and dash (\( \text{=} \)) on the remote control.

Switching between two channels using SurfLock™

The SurfLock™ feature temporarily “memorizes” one channel to the CH RTN button, so you can return to that channel quickly from any other channel by pressing CH RTN. To memorize a channel to the CH RTN button:
1. Tune the TV to the channel you want to program into the CH RTN button.
2. Press and hold CH RTN for about 2 seconds until the message “Channel Memorized” appears on-screen. The channel has been programmed to the CH RTN button.
3. You can then change channels repeatedly, and when you press CH RTN, the memorized channel will be tuned.

The TV will return to the memorized channel one time only. Once you press CH RTN and then change channels again, the CH RTN memory will be cleared and the button will function as Channel Return, by switching back and forth between the last two channels that are tuned. This feature also works for external inputs.

Switching between two channels using Channel Return

The Channel Return feature allows you to switch between two channels without entering an actual channel number each time.
1. Select the first channel you want to view.
2. Select a second channel using the Channel Number buttons (and the dash (\( \text{=} \)) button if selecting a digital channel).
3. Press CH RTN on the remote control. The previous channel will display. Each time you press CH RTN, the TV will switch back and forth between the last two channels that were tuned.
Note: If you press CH RTN from a non-antenna input, the TV will return to the last-viewed input.
**Chapter 6: Using the TV’s features**

**Selecting the picture size**

You can view many program formats in a variety of picture sizes—**Natural**, **TheaterWide 1**, **TheaterWide 2**, **TheaterWide 3**, **Full**, **4:3 HD** and **Native**.

*Note:* The "picture size" illustrations are examples only. The format of the image (in any of the picture sizes) will vary depending on the format of the signal you are currently watching. Select the picture size that displays the current program the way that looks best to you.

You can save separate picture size preferences for each input on your TV.

**To select the picture size using the remote control:**

1. Press **PIC SIZE** on the remote control.
2. While the **Picture Size** screen is open, you can do one of the following to select the desired picture size:
   - Repeatedly press **PIC SIZE**.
   - Press the corresponding Number button (0–6) while the **Picture Size** screen is open.
   - Press ▲ or ▼ while the **Picture Size** screen is open.

**To select the picture size using the menus:**

1. Select **Picture Size** in the **Theater Settings** menu.
2. Press ▲ or ▼ to select the desired picture size setting.
3. Highlight **Done** and press **OK**.

*Note:* Some of the picture sizes may not be available depending on the receiving signal format (those will be “grayed out” in the **Picture Size** screen).

Using these functions to change the picture size (i.e., changing the height/width ratio) for any purpose other than your private viewing may be prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.
Chapter 6: Using the TV’s features

TheaterWide 3 picture size (for letter box programs with subtitles)
- The picture is stretched wider to fill the width of the screen, but only slightly stretched taller.
- The top and bottom edges are hidden. To view the hidden areas (such as subtitles or captions), see “Scrolling the TheaterWide® picture.”

Full picture size (for 16:9 [480i, 480p] source programs only)
- If receiving a squeezed 4:3 format program, the picture is stretched wider to fill the width of the screen, but not stretched taller.
- None of the picture is hidden.

4:3 HD picture size (for 720p, 1080i, and 1080p program sources only)
- Sidebars fill the empty vertical spaces.
- Picture is not distorted from original size.

Native picture size (for 720p, 1080i, and 1080p signal programs)
- If receiving a 720p, 1080i, or 1080p signal program, Native mode scales the video to display the entire picture within the borders of the screen (i.e. no overscanning).
- This is especially useful for external HD sources such as HD-DVD, DVHS movies, or PC graphics.

Note:
- Native picture size is available for 720p, 1080i, and 1080p signals only. If the signal being received is other than 1080i, 1080p, or 720p, “Native” will be grayed out in the Picture Size screen.
- This mode is supported only for HDMI and ColorStream inputs.
- Depending on the input signals, the border of the picture may be hidden, displayed in black, or noisy.

Scrolling the TheaterWide® picture (TheaterWide 2 and 3 only)

You can set separate scroll settings for the TheaterWide 2 and TheaterWide 3 modes for each input.

To set the scroll settings:
1. Press \( \text{MENU} \) and open the Video menu.
2. Highlight Theater Settings and press \( \text{T} \).
3. In the Picture Size field, select either TheaterWide 2 or TheaterWide 3 (you cannot scroll in any other mode).
4. Press \( \downarrow \) to highlight the Picture Scroll field.
5. Press \( \leftarrow \) or \( \rightarrow \) to scroll the picture up and down as needed, from –10 to +20.
6. To save the new settings, highlight Done and press \( \text{T} \). To revert to the factory defaults, highlight Reset and press \( \text{T} \).
Chapter 6: Using the TV’s features

Using the auto aspect ratio feature

When the auto aspect ratio feature is set to On, the TV will automatically select the picture size when one of the following input sources is received:

- A 480i signal from the VIDEO 1, VIDEO 2, ColorStream HD-1, or ColorStream HD-2 input.
- A 480i, 480p, 720p, 1080i, 1080p, or VGA signal from the HDMI input.

Note: The auto aspect ratio feature is not applicable to antenna or cable input sources.

To turn on the auto aspect ratio feature:

1 Press MENU and open the Video menu.
2 Highlight Theater Settings and press T.
3 In the Auto Aspect Ratio field, select On.
4 To save the new settings, highlight Done and press T.
To revert to the factory defaults, highlight Reset and press T.

To turn off the auto aspect ratio feature:
Select Off in step 3 above.

Selecting the cinema mode (480i and 1080i signals)

When you view a DVD (3:2 pulldown processed) from a DVD player connected to the VIDEO 1, VIDEO 2, ColorStream HD-1, ColorStream HD-2 (component video), or HDMI inputs on the TV, smoother motion can be obtained by setting the Cinema Mode to Film.

To set the Cinema Mode to Film:

1 Press MENU and open the Video menu.
2 Highlight Theater Settings and press T.
3 In the Cinema Mode field, select Film.

To set the Cinema Mode to Video:
Select Video in step 3 above.
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Adjusting the picture

Selecting the picture mode

You can select your desired picture settings from four different modes, as described below.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Picture Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sports</td>
<td>Bright and dynamic picture (factory setting)</td>
</tr>
<tr>
<td>Standard</td>
<td>Standard picture settings (factory setting)</td>
</tr>
<tr>
<td>Movie</td>
<td>Lower contrast for darkened room (factory setting)</td>
</tr>
<tr>
<td>Preference</td>
<td>Your personal preferences</td>
</tr>
</tbody>
</table>

To select the picture mode:
Press \texttt{PIC MODE} on the remote control.
The following popup menu appears on-screen.

Press $\uparrow$ or $\downarrow$ to select the picture mode you prefer and press $\texttt{OK}$.

To select the picture mode using the menu system:

1. Press \texttt{MENU} and open the Video menu.
2. Highlight Mode and press $\texttt{OK}$.
3. Press $\uparrow$ or $\downarrow$ to select the picture mode you prefer and press $\texttt{OK}$.

Note: The picture mode you select affects the current input only. You can select a different picture mode for each input.

Adjusting the picture quality

You can adjust the picture quality (Contrast, Back Light, DynaLight™, Brightness, Color, Tint, and Sharpness) to your personal preferences.

<table>
<thead>
<tr>
<th>Selection</th>
<th>Pressing $\downarrow$</th>
<th>Pressing $\uparrow$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contrast</td>
<td>lower</td>
<td>higher</td>
</tr>
<tr>
<td>Back Light*</td>
<td>darker</td>
<td>lighter</td>
</tr>
<tr>
<td>DynaLight**</td>
<td>On/Off</td>
<td>On/Off</td>
</tr>
<tr>
<td>Brightness</td>
<td>darker</td>
<td>lighter</td>
</tr>
<tr>
<td>Color</td>
<td>paler</td>
<td>deeper</td>
</tr>
<tr>
<td>Tint</td>
<td>reddish</td>
<td>greenish</td>
</tr>
<tr>
<td>Sharpness</td>
<td>softer</td>
<td>sharper</td>
</tr>
</tbody>
</table>

* Back Light
This feature adjusts the brightness of the entire screen. When in video mode and no signal is input, this will automatically be set to 0. (Settings are stored in memory.)

**DynaLight
This function automatically strengthens the black coloring of dark areas in the video according to the level of darkness.

To adjust the picture quality:

1. Press \texttt{MENU} and open the Video menu.
2. Highlight Picture Settings and press $\texttt{OK}$.
3. Press $\uparrow$ or $\downarrow$ to select the picture quality you want to adjust (Contrast, Back Light, DynaLight, Brightness, Color, Tint, or Sharpness), and then press $\downarrow$ or $\uparrow$ to adjust the setting, as described in the table above.

4. To save the new settings, highlight Done and press $\texttt{OK}$.

You can use any of the picture modes (‘Selecting the picture mode,’ above left) as a starting point for adjusting the picture settings.

To revert back to the base mode that you began adjusting the picture settings from, highlight Reset and press $\texttt{OK}$.

The picture qualities you adjusted are automatically saved in the Preference mode (‘Selecting the picture mode,’ above left) until Reset is selected.
Chapter 6: Using the TV’s features

Using the closed caption mode

Base closed captions

The closed caption mode has two options:

• Captions—An on-screen display of the dialogue, narration, and sound effects of TV programs and videos that are closed captioned (usually marked “CC” in program guides).

• Text—An on-screen display of information not related to the current program, such as weather or stock data (when provided by individual stations).

To view captions or text:

1. Press \text{Y} and open the \text{Preferences} menu.
2. Highlight Base CC Mode and press \text{C}.
3. Press \text{B} or \text{b} to select the desired closed caption mode and press \text{T}.

To view captions:

Highlight CC1, CC2, CC3, or CC4. (CC1 displays translation of the primary language in your area.)

Note: If the program or video you selected is not closed captioned, no captions will display on-screen.

To view text:

Highlight T1, T2, T3, or T4.

Note: If text is not available in your area, a black rectangle may appear on screen. If this happens, set the Base CC Mode to Off.

To turn off the closed caption mode:

Select Off in step 3 above.

Digital CC Settings

You can customize the closed caption display characteristics by changing the background color, opacity, text size, type, edge, and color.

Note:

• This feature is available for digital channels only.

• You cannot set the Caption Text and Background as the same color.

To customize the closed captions:

1. Press \text{Y} and open the \text{Preferences} menu.
2. Highlight Digital CC Settings and press \text{T}.
3. Press \text{A} or \text{V} to highlight the characteristic you want to change, and then press \text{D} or \text{U} to select the format for that characteristic (see table below).

To save the new settings, highlight Done and press \text{T}. To revert to the factory defaults, highlight Reset and press \text{H}.

<table>
<thead>
<tr>
<th>Caption Size</th>
<th>Auto, Small, Standard, Large</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caption Text Type</td>
<td>Auto, Default, Mono w. Serif, Prop. w. Serif, Mono w/o Serif, Prop. w/o Serif, Casual, Cursive, Small Capitals</td>
</tr>
<tr>
<td>Caption Text Edge</td>
<td>Auto, None, Raised, Depressed, Uniform, Left Drop Shadow, Right Drop shadow</td>
</tr>
<tr>
<td>Caption Text Color</td>
<td>Auto, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan</td>
</tr>
<tr>
<td>Text Foreground Opacity</td>
<td>Auto, Transparent, Translucent</td>
</tr>
<tr>
<td>Text Background Opacity</td>
<td>Flashing, Solid</td>
</tr>
<tr>
<td>Background Color</td>
<td>Auto, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan</td>
</tr>
<tr>
<td>Text Background Opacity</td>
<td>Auto, Transparent, Translucent</td>
</tr>
<tr>
<td>Caption Text Edge Color</td>
<td>Flashing, Solid</td>
</tr>
</tbody>
</table>

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CC Selector

You can use the CC Selector to temporarily override the default analog caption mode (set in Base CC Mode) for a particular channel. However, once you change to another analog channel, the closed caption setting will automatically change back to the current Base CC Mode setting. You can also use the CC Selector to select digital closed caption services (if available). When such services are not available, the CC Selector presents a default list of services. If the selected service is not available, the next best service will be used instead.

To select closed captions:

1. Press MENU and open the Preferences menu.
2. Highlight CC Selector and press OK.
3. Press ▲ or ▼ to select Closed Caption, and then press ◀ or ▶ to select the desired service.
4. Press EXIT.

Adjusting the audio

Muting the sound

Press MUTE to partially reduce (1/2 MUTE) or turn off (MUTE) the sound. Each time you press MUTE, the mute mode will change in the following order:

1/2 Mute → Mute → Volume

If the closed caption mode is set to Off when you select “MUTE” mode, the closed caption feature is automatically activated. To mute the audio without automatically activating the closed caption feature, use Z to set the volume to 0. See “Using the closed caption mode” (page 43) for more information on closed caption modes.

Using the digital audio selector

You can use the Digital Audio Selector to conveniently switch between audio tracks on a digital channel (for those channels that have multiple audio tracks). This temporarily overrides the audio track chosen by the language option under Audio Setup (“Selecting stereo/SAP broadcasts” on page 45).

To use the digital audio selector:

1. Press MENU and open the Audio menu.
2. Highlight Digital Audio Selector and press OK.
3. Press ▲ or ▼ to select Audio, and then press ◀ or ▶ to select the desired service.
4. Press EXIT.
Chapter 6: Using the TV’s features

Selecting stereo/SAP broadcasts

The multi-channel TV sound (MTS) feature allows you to output high-fidelity stereo sound. MTS also can transmit a second audio program (SAP) containing a second language, music, or other audio information (when provided by individual stations).

When the TV receives a stereo or SAP broadcast, the word “STEREO” or “SAP” appears on-screen when is pressed. The MTS feature is not available when the TV is in VIDEO mode.

To listen to stereo sound:

1. Press MENU and open the Audio menu.
2. Highlight Audio Setup and press T.
3. In the MTS field, select Stereo.
4. To save the new settings, highlight Done and press T. To reset the settings to the factory defaults, highlight Reset and press T.

Note:
- You can typically leave the TV in Stereo mode because it will automatically output the type of sound being broadcast (stereo or monaural).
- If the stereo sound is noisy, select Mono to reduce the noise.

To listen to an alternate language on an ATSC digital station (if available):
Highlight the Language field in step 3 above, and then press or to select the language you prefer.

To listen to a second audio program on an analog station (if available):
Select SAP in step 3 above.

Note:
- A second audio program (SAP) can be heard only on those TV stations that offer it. For example, a station might broadcast another language as a second audio program. If you have SAP on, you will see the current program on the screen but hear the other language instead of the program’s normal audio.
- If you have SAP on and the station you are watching is not broadcasting a second audio program, the station’s normal audio will be output. However, occasionally there is no sound at all in SAP mode. If this happens, set the MTS feature to Stereo mode.

Adjusting the audio quality

You can adjust the audio quality by adjusting the bass, treble, and balance.

To adjust the audio quality:

1. Press MENU and open the Audio menu.
2. Highlight Audio Settings and press T.
3. Press or to highlight the item you want to adjust (Bass, Treble, or Balance).

4. Press or to adjust the level.
   - makes the bass or treble weaker or increases the balance in the left channel (depending on the item selected).
   - makes the bass or treble stronger or increases the balance in the right channel (depending on the item selected).

5. To save the new settings, highlight Done and press T. To reset the settings to the factory defaults, highlight Reset and press T.
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Using the StableSound® feature
The StableSound® feature limits the highest volume level to prevent extreme changes in volume when the signal source changes (for example, to prevent the sudden increase in volume that often happens when a TV program switches to a commercial).

To turn on the StableSound® feature:
1. Press \( \text{Menu} \) and open the Audio menu.
2. Highlight Audio Settings and press \( \text{Enter} \).
3. In the StableSound field, select On.
4. To save the new settings, highlight Done and press \( \text{Enter} \).

Note: The RESET function returns your audio adjustments to the following factory settings:
- Bass . . . . . . . .  center (50)
- Treble . . . . . . .  center (50)
- Balance . . . . . .  center (0)
- StableSound . . Off

To turn off the StableSound feature:
Select Off in step 3 above.

Selecting the optical audio output format
You can use this feature to select the optical audio output format when you connect a Dolby Digital decoder or other digital audio system to the Optical Audio Out terminal on the TV (see “Connecting a digital audio system” on page 18).

To select the optical audio output format:
1. Press \( \text{Menu} \) and open the Audio menu.
2. Highlight Audio Setup and press \( \text{Enter} \).

3. In the Optical Output Format field, select either Dolby Digital or PCM, depending on your device.

4. To save the new settings, highlight Done and press \( \text{Enter} \).

To revert to the factory defaults, highlight Reset and press \( \text{Enter} \).

Using the Dolby® Digital Dynamic Range Control feature
This dynamic range control feature causes the ATSC dynamic range to be further compressed, allowing you to switch from ATSC to analog broadcasts at the same dynamic range.

To use the Dolby Digital Dynamic Range Control:
1. Press \( \text{Menu} \) and open the Audio menu.
2. Highlight Audio Setup and press \( \text{Enter} \).
3. In the Dolby Digital Dynamic Range Control field, select Compressed. When Standard is selected, the audio is output with minimal compression.

4. To save the new settings, highlight Done and press \( \text{Enter} \).

To revert to the factory defaults, highlight Reset and press \( \text{Enter} \).

Note:
- This item will be grayed out for NTSC signals, Video, ColorStream, and PC inputs.
- The Dolby Digital Dynamic Range Control will function in relation to Optical Output Format (PCM mode).
Using the Locks menu

The Locks menu includes the Enable Rating Blocking, Edit Rating Limits, Channels Block, Input Lock, Front (control) Panel Lock, and New PIN Code features. You can use these features after entering the correct PIN code.

Entering the PIN code

1. Press \textit{MENU} and highlight the \textit{Locks} menu icon.

2. Press \textit{▼}, which displays the PIN code entry screen.
   - The \textit{Lock System} screen (below) appears if a PIN code has not been stored. Press the Channel Number buttons to enter a new four-digit code, enter the code a second time to confirm, and press \textit{OK}.
   - The \textit{Locks/Active} screen (below) appears if the PIN code is already stored. Use the Number buttons to enter your four-digit code and press \textit{OK}.

<table>
<thead>
<tr>
<th>Locks</th>
<th>Active</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enable Rating Blocking</td>
<td>Off</td>
</tr>
<tr>
<td>Edit Rating Limits</td>
<td></td>
</tr>
<tr>
<td>Channels Block</td>
<td>Off</td>
</tr>
<tr>
<td>Input Lock</td>
<td>Off</td>
</tr>
<tr>
<td>Front Panel Lock</td>
<td>Off</td>
</tr>
<tr>
<td>New PIN Code</td>
<td></td>
</tr>
</tbody>
</table>

If the wrong PIN code is entered, the message “Incorrect PIN code, please try again!” appears. Highlight \textit{Retry} and press \textit{OK}. Enter the code again and press \textit{OK}.

When the correct PIN code is entered, the \textit{Locks} menu opens.

If you cannot remember your PIN code

While the PIN code entering screen is displayed, press \textit{RECALL} four times within five seconds. The PIN code will be cleared and you can enter a new PIN code.

Changing your PIN code

1. Press \textit{MENU} and highlight the \textit{Locks} menu icon.
2. Press \textit{▼} to display the PIN code entering screen.
3. Enter your four-digit PIN code and press \textit{OK}.
4. Press \textit{▼} to highlight \textit{New PIN Code} and press \textit{OK}.
5. Press the Number buttons to enter a new four-digit code. Reenter the PIN code to confirm it.
6. Press \textit{OK}. The new PIN code is now active.
Chapter 6: Using the TV’s features

Blocking TV programs and movies by rating (V-Chip)

Some TV programs and movies include signals that classify the content of the program (violence, sex, dialog, language). The V-Chip feature in this TV detects the signals and blocks the programs according to the ratings you select. (For rating descriptions, see the tables on the next page.)

Note: Rating blocking is a function of the V-Chip feature in this TV, which supports the U.S. V-Chip system only.

To block and unblock TV programs and movies:

1. Press \( \text{MENU} \) and highlight the \( \text{Locks} \) menu icon.
2. Press \( \downarrow \) to display the PIN code entering screen.
3. Enter your four-digit PIN code and press \( \text{T} \).
4. Press \( \downarrow \) to highlight \( \text{Enable Rating Blocking} \).
5. Press \( \downarrow \) and \( \uparrow \) to select \( \text{On} \), and then press \( \text{T} \).
6. Press \( \downarrow \) to highlight \( \text{Edit Rating Limits} \) and press \( \text{T} \). The \( \text{Edit Rating Limits} \) screen (below) appears.
7. Press \( \uparrow \downarrow \) and then press \( \text{T} \) to select the level of blocking you prefer. A box with an “X” is a rating that will be blocked. As you highlight a rating, a definition for the rating appears at the bottom of the screen.
8. When done selecting the ratings you want to block, highlight \( \text{Done} \) and press \( \text{T} \).

Downloading an additional rating system for blocking TV programs and movies

In the future, an additional rating system may become available for use in selectively blocking programs.

Note: The currently tuned station must be receiving a digital signal before an additional rating system can be downloaded.

To download the additional rating system (if available):

1. Press \( \text{MENU} \) and highlight the \( \text{Locks} \) menu icon.
2. Press \( \downarrow \) to display the PIN code entering screen.
3. Enter your four-digit PIN code and press \( \text{T} \).
4. Press \( \downarrow \) to highlight \( \text{Enable Rating Blocking} \).
5. Press \( \downarrow \) and \( \uparrow \) to select \( \text{On} \), and press \( \text{T} \). The \( \text{Edit Rating Limits} \) screen appears.
6. Press \( \downarrow \) to highlight \( \text{Edit Alternate Ratings} \) and press \( \text{T} \). The \( \text{Edit Alternate Ratings} \) screen will appear.
7. Highlight \( \text{Alt RS} \) and press \( \text{T} \). The \( \text{Edit Alternate Ratings} \) screen will appear.
8. Press \( \uparrow \downarrow \) and then press \( \text{T} \) to select the level of blocking you prefer. A box with an “X” is a rating that will be blocked.
9. When you are finished selecting the ratings you want to block, highlight \( \text{Done} \) and press \( \text{T} \).
Chapter 6: Using the TV's features

Blocking channels

With the Channels Block feature, you can block specific channels. You will not be able to tune blocked channels unless you unlock them.

To block channels:
1. Press \( \text{MENU} \) and highlight the \text{Locks} menu icon.
2. Press \( \downarrow \) to display the PIN code entering screen.
3. Enter your four-digit PIN code and press \( \leftarrow \) (see page 47).
4. Press \( \downarrow \) to highlight \text{Channels Block} and then press \( \leftarrow \). A list of the channels available for that input will be displayed along with the call letters for each channel, if available.
5. Press \( \uparrow \downarrow \) to highlight the channel you want to block and press \( \leftarrow \), which puts an \( \text{X} \) in the box next to that channel.
6. Repeat step 5 for other channels you want to block.
7. Highlight \text{Done} and press \( \leftarrow \).

To unblock individual channels:
In step 5 above, press \( \uparrow \downarrow \) to highlight the channel you want to unblock, press \( \leftarrow \) to remove the \( \text{X} \) from the box, highlight \text{Done} and press \( \leftarrow \).

(continued)
Chapter 6: Using the TV’s features

To block all channels at once:
Highlight **Block All** in step 5 on previous page and then highlight **Done** and press "T".

To unblock all locked channels at once:
Highlight **Allow All** in step 5 on previous page and then highlight **Done** and press "T".

Unlocking programs temporarily

If you try to tune the TV to a program that exceeds the rating limits you set, the TV will enter program lock mode and the following message will appear on-screen:

This program exceeds the rating limit you set. Push 'mute' to enter PIN.

You can either temporarily unlock the program or select an unlocked program to watch.

To temporarily unlock the program:

1. Press "MUTE".
2. Enter your four-digit PIN code and press "T". If the correct code is entered, the program lock mode is released and the normal picture appears. All locking is disabled until the TV is turned off, and will be enabled when the TV is turned on again.

Using the input lock feature

You can use the Input Lock feature to lock the video inputs (VIDEO 1, VIDEO 2, ColorStream HD-1, ColorStream HD-2, HDMI 1, HDMI 2, HDMI 3 and PC) and channels 3 and 4. You will not be able to view the input sources or channels until you unlock the inputs.

To lock/unlock the video inputs:

1. Press **MENU** and highlight the **Locks** menu icon.
2. Press ▼ to display the PIN code entering screen.
3. Enter your four-digit PIN code and press "T".
4. Press ▼ to highlight **Input Lock** and press ►.
5. Press ▲ or ▼ to select the level of video input locking you prefer, as described below.
   - **Video**: Locks VIDEO 1, VIDEO 2, ColorStream HD1/HD2, HDMI 1, HDMI 2, HDMI 3, and PC.
   - **Video+**: Locks VIDEO 1, VIDEO 2, ColorStream HD1/HD2, HDMI 1, HDMI 2, HDMI 3, PC and channels 3 and 4.
   - **Select Video+ if you play video tapes via an ANT input.**

6. Press "T".

Off: Unlocks all video inputs and channels 3 and 4.

Unlocking programs temporarily

Options:
- **Locks Active**: Enter PIN code to temporarily unblock.
- **Cancel**: Sends the menu back to the previous screen.
- **Done**: Locks all video inputs and channels 3 and 4.

This program exceeds the rating limit you set. Push ‘mute’ to enter PIN.
Using the control panel lock feature

You can lock the control panel to prevent your settings from being changed accidentally (by children, for example). When the control panel lock is On, none of the controls on the TV control panel will operate except POWER.

To lock the control panel:

1. Press MENU and highlight the Locks menu icon.
2. Press ▼ to display the PIN code entering screen.
3. Enter your four-digit PIN code and press ○.
4. Press ▼ to highlight Front Panel Lock.
5. Press ► and ◄ or ▶ to highlight On and press ○. When the control panel is locked and any button on the control panel (except POWER) is pressed, the message “Not Available” appears.

To unlock the control panel:
Highlight Off in step 5 above, or press and hold the VOLUME – button on the TV control panel for about 10 seconds until the volume icon appears.

Using the PC settings feature

You can view an image from a PC on the TV screen. When a PC is connected to the TV’s PC IN terminal, you can use the PC Settings feature to make adjustments to the image. If the edges of the picture are cut off, readjust the Horizontal Position and Vertical Position. If the picture is affected by interference, readjust the Clock Phase and Sampling Clock.

To adjust the PC settings:

1. Repeatedly press ○ to select PC input mode (see “Selecting the video input source to view” page 35).
2. Press ○ and open the Setup menu.
3. Highlight PC Settings and press ○.

To unlock the control panel:

Highlight Off in step 5 above, or press and hold the VOLUME – button on the TV control panel for about 10 seconds until the volume icon appears.
Chapter 6: Using the TV's features

Setting the PC Audio

This function allows you to output the sound from your PC (if connected) or mute the sound from your PC and output the sound from your HDMI (DVI) connection. (See page 19)

To set the PC Audio:

1. Press \textit{MENU} and open the \textit{Audio} menu.
2. Highlight \textit{Audio Setup} and press \textit{OK}.
3. Press \textup{▲} or \textup{▼} to select \textit{PC Audio} and then press \textup{◄} or \textup{►} to select \textit{No} or \textit{Yes}.
   - \textit{Yes}: Outputs the sound from your PC.
   - \textit{No}: Mutes the sound from your PC, and outputs the sound from the HDMI-1 connection.

Note: Because the PC and HDMI-1 inputs share the same set of analog audio inputs, the \textit{PC Audio} menu setting influences the \textit{HDMI 1 Audio} menu setting. If \textit{PC Audio} is set to \textit{"No"}, the \textit{HDMI 1 Audio} setting changes to \textit{"Auto"}. If \textit{PC Audio} is set to \textit{"Yes"}, the \textit{HDMI 1 Audio} setting is set to \textit{"Digital"} and is grayed out in the menu. (Also see item 4 on page 11 and “Setting the HDMI™ Audio mode” on page 32.)

Setting the sleep timer

You can set the sleep timer to turn off the TV after a set length of time (maximum of 180 minutes).

To set the sleep timer using the remote control:

Press \textit{SLEEP} on the remote control to set the length of time until the TV turns off. Repeatedly press \textit{SLEEP} to increase the time in 10-minute increments, or press \textup{▲} or \textup{▼} to increase or decrease the time in 10-minute increments, to a maximum of 180 minutes.

To set the sleep timer using the on-screen menus:

1. Press \textit{MENU} and open the \textit{Setup} menu.
2. Highlight \textit{Sleep Timer} and press \textit{OK}.
3. Press the Number buttons to enter the length of time in 10-minute increments.

4. Highlight \textbf{Done} and press \textit{OK}.

Note: When a power failure occurs, the sleep timer setting may be cleared.

To display the remaining sleep time:

Press \textit{SLEEP}.

Note: A message will display on-screen when there is one minute remaining on the sleep timer.

To cancel the sleep timer:

Repeatedly press \textit{SLEEP} until it is set to 0 minute.
Chapter 6: Using the TV's features

Displaying TV status information

To display TV status information using RECALL:
Press RECALL on the remote control.
The following information will display (if applicable):
• Current input (ANT, VIDEO 1, etc.)
• If ANT is the current input, either “CABLE” (for cable TV) or “ANT” (for over-the-air broadcasts).
• Channel number (if in ANT mode)
• Channel label (if set)
• Digital signal strength indicator (bar graph in lower right corner of box; for ATSC signal only)
• Stereo, Mono or SAP audio status (when HDMI input mode, Dolby Digital or PCM)
• Video resolution
• Aspect ratio of incoming video signal (4:3 or 16:9)
• V-Chip rating status

To close the RECALL screen:
Press RECALL again.

To display TV status information using INFO:
Press INFO on the remote control.
The following additional information will display for off air digital channels (if applicable):
• Title
• Duration
• Detailed description

Understanding the auto power off feature

The TV will automatically turn itself off after approximately 15 minutes if it is tuned to a vacant channel or a station that completes its broadcast for the day. This feature functions in ANT mode only.

Understanding the last mode memory feature

If the power is cut off while you are viewing the TV, the Last Mode Memory feature automatically turns on the TV when the power is resupplied.

Note: You should unplug the TV’s power cord if it is possible that you will be away from the TV for an extended period of time after the power is restored.

Note: The location of the banner can be moved to the top or bottom of the screen by pressing ▲ or ▼ while the RECALL or INFO display is on-screen. (The last position will be stored to memory.)
Chapter 7: Using the TV’s advanced features

Using the advanced picture settings features

Using dynamic contrast
When dynamic contrast is set to Low, Middle, or High, the TV will detect changes in the picture quality that affect the appearance of your contrast settings and then automatically adjust the video.

To select dynamic contrast preferences:
1 Press and open the Video menu.
2 Highlight Picture Settings and press .
3 Highlight Advanced Picture Settings and press .
4 In the Dynamic Contrast field, select either Off, Low, Middle or High.
5 To save the new settings, highlight Done and press .

Note: If you select one of the factory-set picture modes (Sports, Standard, or Movie) and then change the dynamic contrast setting, the picture mode automatically changes to Preference.

Using the static gamma feature
The static gamma feature allows you to adjust the levels of black in the picture.

To adjust the static gamma settings:
1 Press and open the Video menu.
2 Highlight Picture Settings and press .
3 Highlight Advanced Picture Settings and press .
4 In the Static Gamma field, press or to adjust the static gamma.

The adjustment range is within ±5 from center.

- If the setting is moved in the minus direction, the detail of black colors will be decreased.
- If the setting is moved in the plus direction, the detail of black colors will be increased.

5 To save the new settings, highlight Done and press .

To revert the factory defaults, highlight Reset and press .

Note: If you select one of the factory-set picture modes (Sports, Standard or Movie) and then change the static gamma setting, the picture mode automatically changes to Preference.
Chapter 7: Using the TV’s advanced features

Selecting the color temperature
You can change the quality of the picture by selecting from three preset color temperatures (Cool, Medium, and Warm), as described below.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Picture Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cool</td>
<td>blueish</td>
</tr>
<tr>
<td>Medium</td>
<td>neutral</td>
</tr>
<tr>
<td>Warm</td>
<td>reddish</td>
</tr>
</tbody>
</table>

To select the color temperature:
1. Press \( Y \) and open the Video menu.
2. Highlight Picture Settings and press \( T \).
3. Highlight Advanced Picture Settings and press \( T \).
4. Highlight Color Temperature and press \( T \).
5. In the Color Temperature field, select the mode you prefer (Cool, Medium, or Warm).
6. Press \( \uparrow \) or \( \downarrow \) to select either B Drive or G Drive, and then press \( \leftarrow \) or \( \rightarrow \) to adjust the settings.
   - B Drive: \( \uparrow \) makes the picture blueish.
   - G Drive: \( \uparrow \) makes the picture greenish.

Note: The B Drive and G Drive settings are connected to the Color Temperature settings and will change based on which setting is selected in step 5 above.
7. To save the new settings, highlight Done and press \( T \).
   To revert to the factory defaults, highlight Reset and press \( \overline{\text{B}} \).

   Note: If you select one of the factory-set picture modes (Sports, Standard, or Movie) and then change the color temperature mode, the picture mode automatically changes to Preference.

Using CableClear® digital noise reduction
The CableClear® digital noise reduction feature allows you to reduce visible interference in your TV picture. This may be useful when receiving a broadcast with a weak signal (especially a Cable channel) or playing a noisy video cassette or disc.

To change the CableClear settings:
1. Press \( \overline{\text{M}} \) and open the Video menu.
2. Highlight Noise Reduction and press \( \overline{\text{B}} \).
3. In the CableClear field, select your desired setting.

Note:
- If the current input is ANT, VIDEO 1, or VIDEO 2, the menu will display the text “CableClear.” The available selections are Off, Auto, Low, Middle, and High.
- If the current input is ColorStream HD1, ColorStream HD2, HDMI 1, HDMI 2, or HDMI 3 the menu will display the text “DNR.” The available selections are Off, Auto, Low, Middle, and High. Auto will react proportionally to the strength of the noise. Low, Middle, and High will reduce the noise in varying degrees, from lowest to highest, respectively.
4. To save the new settings, highlight Done and press \( \overline{\text{B}} \).
   To revert to the factory defaults, highlight Reset and press \( \overline{\text{B}} \).
Chapter 7: Using the TV’s advanced features

Using MPEG noise reduction

The MPEG noise reduction feature allows you to reduce visible interference caused by MPEG compression. Choices for MPEG noise reduction are Off, Low, Middle, and High. Off is automatically selected when this feature is disabled (“grayed out”).

To select the MPEG noise reduction level:

1. Press \(<\) and open the Video menu.
2. Highlight Noise Reduction and press \(\#\).
3. Press \(\uparrow\) or \(\downarrow\) to highlight the MPEG Noise Reduction field, and then press \(\leftarrow\) or \(\rightarrow\) to select either Off, Low, Middle or High.
4. To save the new settings, highlight Done and press \(\#\). To revert to the factory defaults, highlight Reset and press \(\#\).

Using the Game Mode feature

You can use the Game Mode feature for shorter frame delays when playing a video game requiring split-second timing between the on-screen display and input from the controller (such as music creation and high-action games).

This feature is more effective for 480i and 1080i input signals.

Note: To use the Game Mode feature, the current video input must be Video 1, Video 2, ColorStream HD1, ColorStream HD2, HDMI 1, HDMI 2, or HDMI 3. The Game Mode cannot be turned on when any other video input is selected.

To turn on Game Mode:

1. Press \(<\) and open the Video menu.
2. Press \(\uparrow\) or \(\downarrow\) to highlight the Game Mode field, and then press \(\leftarrow\) or \(\rightarrow\) to select On.

To turn off Game Mode:

Select Off in step 2 above, change the video input, or turn the TV off and then on again.

Note: You can change the video input by pressing \(\#\) on the remote control (see page 35).
Using the advanced audio settings features

Using the SRS WOW™ surround sound feature

SRS WOW™ is a special combination of SRS Labs audio technologies (SRS 3D, SRS Focus, and SRS TruBass) that creates a thrilling surround sound experience with deep, rich bass from stereo sound sources. Your TV’s audio will sound fuller, richer, and wider.

To adjust the WOW™ settings:

1. Put the TV inSTEREO mode ("Selecting stereo/SAP broadcasts" on page 45).
2. Press MENU and open the Audio menu.
3. Highlight Advanced Audio Settings and press T.
4. Press ▼ or ▲ to highlight the WOW feature you want to adjust, and then press ◄ or ► to adjust the item.

<table>
<thead>
<tr>
<th>Advanced Audio Settings</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>WOW: SRS 3D</td>
<td>Off</td>
</tr>
<tr>
<td>WOW: SRS Focus</td>
<td>Off</td>
</tr>
<tr>
<td>WOW: SRS TruBass</td>
<td>Low</td>
</tr>
</tbody>
</table>

• WOW: SRS 3D — To turn the surround sound effect On or Off.
  *Note: If the broadcast is monaural, the SRS 3D effect will not work.*
• WOW: SRS Focus — To turn the vocal emphasis effect On or Off.
• WOW: SRS TruBass — To select the desired bass expansion level (Off, Low, or High).

5. To save the new settings, highlight Done and press T. To revert to the factory defaults, highlight Reset and press T.

WOW, SRS and symbol are trademarks of SRS Labs, Inc.
WOW technology is incorporated under license from SRS Labs, Inc.
**Chapter 8: Troubleshooting**

### General troubleshooting

Before calling a service technician, please check this chapter for a possible cause of the problem and some solutions you can try.

**Black box on-screen**
- The closed caption feature is set to one of the Text modes (T1, T2, T3, or T4). Set the closed caption feature to Off (page 43).

**TV stops responding to controls**
- If the TV stops responding to the controls on the remote control or TV control panel and you cannot turn off the TV, press and hold the POWER button on the TV control panel for 5 or more seconds to reset the TV.

**Other problems**
- If your TV’s problem is not addressed in this Troubleshooting section or the recommended solution has not worked, use the Restore Factory Defaults procedure (page 33).

**TV will not turn on**
- Make sure the power cord is plugged in, and then press POWER.
- The remote control batteries may be dead. Replace the batteries or try the control panel buttons.

**Picture problems**

#### General picture problems
- Check the antenna/cable connections (Chapter 2).
- Press \( \text{INPUT} \) on the remote control or TV and select a valid video input source (page 35). If no device is connected to a particular input on the TV, no picture will display when you select that particular input source. For device connection details, see Chapter 2.
- Antenna reception may be poor. Use a highly directional outdoor antenna (if applicable).
- The station may have broadcast difficulties. Try another channel.
- Adjust the picture qualities (page 42).
- If you are using a VCR, make sure \( \text{INPUT} \) on the remote control is set correctly (page 22).
- Do not connect both a standard video cable and an S-video cable to the VIDEO 1 input at the same time (page 14).

#### Noisy picture
- If you are watching an analog channel (off-air broadcast or Cable TV), you can set the CableClear/DNR feature to AUTO to reduce visible interference in the TV picture (page 55).

#### Video Input Selection problems
- If the Input Selection window does not appear when you press \( \text{INPUT} \) on the remote control or TV, press \( \text{INPUT} \) a second time, which will change to the next video input source and display the Input Selection window.

### Cannot view external signals or channel 3 or 4
- If you cannot view signals from external devices connected to VIDEO 1, VIDEO 2, ColorStream HDMI 1, HDMI 2, HDMI 3, PC, or from channels 3 or 4, make sure the Input Lock is set to Off (page 50).

### Poor color or no color
- The station may have broadcast difficulties. Try another channel.
- Adjust the Tint and/or Color (page 42).

### Poor composite or S-video picture
- If the TV is connected to an external A/V device (e.g., DVD player, video game system, set-top box, etc.) try using a ColorStream or HDMI video connection instead.

### Picture and sound are out of sync
- As with all products that contain a digital display, in rare instances, when viewing certain content (e.g., television broadcasts, video games, DVDs), you may notice that the sound and picture are slightly out of sync. This phenomenon can be caused by various factors including, without limitation, video processing within the TV, video processing in an attached gaming system, and video processing or different compression rates used by broadcasters in their programming. You may want to try one or more of the following suggestions, which may help to reduce the effect of this phenomenon:
  - If the TV is connected to an A/V receiver that has a programmable audio delay feature, use this feature to help synchronize the sound to the picture.
  - If you notice this phenomenon only on certain TV channels, please contact your local broadcast, cable, or satellite provider to inform them of this issue.

### LED indications while in reboot from standby
- When you plug the power cord in, the yellow LED will blink until the TV enters standby mode, (plugged in but not powered on). This is normal and is not a sign of malfunction.

### Sound problems
- Check the antenna/cable connections (Chapter 2).
- The station may have broadcast difficulties. Try another channel.
- The sound may be muted. Press VOLUME.
- If you hear no sound, try setting the MTS feature to Stereo mode (page 45).
- If you are not receiving a second audio program from a known SAP source, make sure the MTS feature is set to SAP mode (page 45).
- If you hear audio that seems “incorrect” for the program you are watching (such as music or a foreign language), the SAP mode may be on. Set the MTS feature to Stereo mode (page 45).

### Remote control problems
- Make sure the remote control is set to the correct device mode (page 21).
- Remove all obstructions between the remote control and the TV.
- The remote control batteries may be dead. Replace the batteries (page 20).
Chapter 8: Troubleshooting

- Your TV remote control may not operate certain features on your external device. Refer to the owner’s manual for your other device to determine its available features. If your TV remote control does not operate a specific feature on another device, use the remote control that came with the device (pages 22–26).
- If the TV still does not act as expected, use the Reset Factory Defaults procedure (page 33).

Channel tuning problems

- Make sure the remote control is set to the correct device mode (page 21).
- The channel may have been erased from the channel memory by the Channel Add/Delete feature. Add the channel to the channel memory (page 30).
- The channel may be blocked by the Channels Block feature. Unblock the channel (page 49).
- If you are unable to tune digital channels, check the antenna configuration (page 29). If you are still unable to tune digital channels, clear all channels from the channel list (page 31) and reprogram channels into the channel memory (page 30). If you are still unable to tune digital channels, use the Reset Factory Defaults procedure (page 33). Also see “TV stops responding to controls” and “Other problems” (page 58).

Closed caption problems

- If the program or video you selected is not closed-captioned, no captions will display (page 43).
- If text is not available, a black rectangle may appear. If this happens, turn off the closed caption feature (page 43).
- A closed-caption signal may not display correctly in the following situations: a) when a videotape has been dubbed; b) when the signal reception is weak; or c) when the signal reception is nonstandard (page 43).

Rating blocking (V-Chip) problems

- If you forget your PIN code: While the PIN code entering screen is displayed, press \( \text{REC} \) four times within 5 seconds. The PIN code you previously stored will be cleared (page 47).
- The V-Chip feature is available for the U.S. V-Chip system only (page 48).
Chapter 8: Troubleshooting

LED indications

The green and yellow LED lights on the TV front indicate the TV’s status, as described below.

Note: If the TV loses A/C power (e.g., a power outage occurs or the power cord is unplugged), when power is restored, the yellow LED will blink while the TV is booting until the remote control is usable. This is normal and is not a sign of malfunction.

If, after trying the solutions, the problem still exists:
- In the U.S., call TACP Consumer Solutions at 1-800-575-5469.
- In Canada, locate the nearest Toshiba authorized service depot by directing your web browser to www.toshiba.ca; click “Home Entertainment,” and then click “Support.”

<table>
<thead>
<tr>
<th>LED Indication</th>
<th>Condition</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Green is ON (solid).</td>
<td>The TV is operating properly.</td>
<td>—</td>
</tr>
<tr>
<td>2) Yellow is ON (solid).</td>
<td>Standby with Power-On Mode set to Fast.</td>
<td>See “Selecting the Power-On Mode” (page 34).</td>
</tr>
<tr>
<td>3) Yellow blinks three times.</td>
<td>TV is powering up.</td>
<td>Wait several seconds until the yellow LED stops blinking.</td>
</tr>
<tr>
<td>4) Green blinks slowly.</td>
<td>Abnormal operation of BUS line.</td>
<td>Turn OFF the TV and unplug the power cord. Plug the power cord in again and turn ON the TV.</td>
</tr>
<tr>
<td>5) Green blinks quickly.</td>
<td>Power protect detection.</td>
<td>—</td>
</tr>
</tbody>
</table>
Chapter 9: Appendix

Specifications

Note:
• This model complies with the specifications listed below.
• Designs and specifications are subject to change without notice.
• This model may not be compatible with features and/or specifications that may be added in the future.

Television System
NTSC standard
ATSC standard (8VSB)
Digital Cable (64 QAM, 256 QAM; in-the-clear, unencrypted)

Channel Coverage
VHF: 2 through 13
UHF: 14 through 69
Cable TV: Mid band (A-8 through A-1, A through I)
Super band (AA through ZZ, AAA, BBB)
Ultra band (65 through 94, 100 through 135)

Power Source: 120 V AC, 60 Hz

Power Consumption
26HL67: 74 W (average)
0.5 W in standby mode
32HL67/32HL67U:
101 W (average)
0.5 W in standby mode
37HL67: 116 W (average)
0.5 W in standby mode
42HL67: 161 W (average)
0.6 W in standby mode

Audio Power: 10 W + 10 W

Speaker Type: Two 2-3/8 x 4-3/4 inches (6 x 12 cm)

Video/Audio Terminals
S-VIDEO INPUT:
Y: 1 V(p-p), 75 ohm, negative sync.
C: 0.286 V(p-p) (burst signal), 75 ohm

VIDEO/AUDIO INPUT:
VIDEO: 1 V(p-p), 75 ohm, negative sync.
AUDIO: 150 mV(rms) (30% modulation equivalent, 22 k ohm or greater)

ColorStream® (component video) HD INPUT:
VIDEO: Y: 1 V(p-p), 75 ohm
PR: 0.7 V(p-p), 75 ohm
PB: 0.7 V(p-p), 75 ohm

HDMI input supports the following signal formats:

<table>
<thead>
<tr>
<th>Format</th>
<th>Resolution</th>
<th>V. Frequency</th>
<th>H. Frequency</th>
<th>Pixel Clock Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>VGA</td>
<td>640 x 480p</td>
<td>59.940/60Hz</td>
<td>31.469/31.500kHz</td>
<td>25.175/25.200MHz</td>
</tr>
<tr>
<td>480i</td>
<td>720 x 480i</td>
<td>59.940/60Hz</td>
<td>15.734/15.750kHz</td>
<td>27.000/27.027MHz</td>
</tr>
<tr>
<td>480p</td>
<td>720 x 480p</td>
<td>59.940/60Hz</td>
<td>31.469/31.500kHz</td>
<td>27.000/27.027MHz</td>
</tr>
<tr>
<td>720p</td>
<td>720 x 480p</td>
<td>59.940/60Hz</td>
<td>44.955/45.000kHz</td>
<td>74.176/74.250MHz</td>
</tr>
<tr>
<td>1080i</td>
<td>1920 x 1080i</td>
<td>59.940/60Hz</td>
<td>33.716/33.750kHz</td>
<td>74.176/74.250MHz</td>
</tr>
<tr>
<td>1080p</td>
<td>1920 x 1080p</td>
<td>23.976/24Hz</td>
<td>26.973/27.000kHz</td>
<td>74.176/74.250MHz</td>
</tr>
<tr>
<td>1080p</td>
<td>1920 x 1080p</td>
<td>59.940/60Hz</td>
<td>67.433/67.500kHz</td>
<td>148.352/148.500MHz</td>
</tr>
</tbody>
</table>

Pn: 0.7 V(p-p), 75 ohm
Suggested formats: 1080i, 720p, 480p, 480i
AUDIO: 150 mV(rms), 22 k ohm or greater

HDMI™ INPUT:
HDMI compliant (type A connector)
HDCP compliant
Audio Lip Sync supported
Suggested formats: See table below.
HDMI Audio: 2-channel Linear-PCM; 32/44.1/48 kHz
sampling frequency; 16/20/24 bits per sample

FIXED AUDIO OUTPUT:
150 mV (rms) (30% modulation equivalent, 2.2 k ohm or less)

DIGITAL AUDIO OUTPUT:
Optical type

PC INPUT:
15-Pin D-sub Analog RGB

Dimensions
26HL67: Width: 26-1/4 inches (666 mm)
Height: 20-1/4 inches (514 mm)
Depth: 9-1/2 inches (241 mm)

32HL67/32HL67U:
Width: 31-1/2 inches (800 mm)
Height: 23-3/8 inches (592 mm)
Depth: 11-1/4 inches (285 mm)

37HL67: Width: 36-1/4 inches (920 mm)
Height: 26-1/8 inches (661 mm)
Depth: 11-1/4 inches (285 mm)

42HL67: Width: 40-1/2 inches (1,027 mm)
Height: 28-5/8 inches (724 mm)
Depth: 13-1/4 inches (335 mm)

Weight
26HL67: 28.7 lbs (13.0 kg)
32HL67: 38.6 lbs (17.5 kg)
32HL67U: 38.6 lbs (17.5 kg)
37HL67: 46.3 lbs (21.0 kg)
42HL67: 59.5 lbs (27.0 kg)

Operating conditions
Temperature: 32ºF - 95ºF (0ºC - 35ºC)
Humidity: 20 - 80% (no moisture condensation)

Supplied Accessories
• Remote control with two size “AAA” batteries
• Owner’s manual (this book)
• Lead clip
Use this clip to attach the TV to a wall, pillar, or other immovable structure. See item 20 on page 3.
Limited United States Warranty
for LCD Televisions 26” and Larger

Toshiba America Consumer Products, L.L.C. (“TACP”) makes the following limited warranties to original consumers in the United States. THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS LCD TELEVISION AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE. LCD TELEVISIONS PURCHASED IN THE U.S.A. AND USED ANYWHERE OUTSIDE OF THE U.S.A., INCLUDING, WITHOUT LIMITATION, CANADA AND MEXICO, ARE NOT COVERED BY THESE WARRANTIES. LCD TELEVISIONS PURCHASED ANYWHERE OUTSIDE OF THE U.S.A., INCLUDING, WITHOUT LIMITATION, CANADA AND MEXICO, AND USED IN THE U.S.A., ARE NOT COVERED BY THESE WARRANTIES.

Limited One (1) Year Warranty on Parts and Labor
TACP warrants this LCD Television and its parts against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TACP WILL, AT TACP’S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOR. During this period, TACP Authorized Service Station personnel will come to your home when warranty service is required. Depending on the type of repair required, the service will either be performed in your home or the LCD Television will be taken to a TACP Authorized Service Station for repair and returned to your home at no cost to you.

Rental Units
The warranty for LCD Television rental units begins on the date of the first rental or thirty (30) days after the date of shipment to the rental firm, whichever comes first.

Limited Warranty for Commercial Units
TACP warrants LCD Televisions that are sold and used for commercial purposes as follows: all parts are warranted against defects in materials or workmanship for a period of ninety (90) days after the date of original retail purchase. DURING THIS PERIOD, TACP WILL, AT TACP’S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU.

Owner’s Manual and Product Registration Card
Read this owner’s manual thoroughly before operating this LCD Television. Complete and mail the enclosed product registration card or register your LCD Television online at www.tacp.toshiba.com service as soon as possible. By registering your LCD Television you will enable TACP to bring you new products specifically designed to meet your needs and help us to contact you in the unlikely event a safety notification is required under the U.S. Consumer Product Safety Act. Failure to complete and return the product registration card does not diminish your warranty rights.

Your Responsibility
THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:
(1) You must retain your original bill of sale or provide other proof of purchase.
(2) All warranty servicing of this LCD Television must be performed by an Authorized TACP Service Station.
(3) The warranties from TACP are effective only if this LCD Television is purchased and operated in the Continental U.S.A. or Puerto Rico.
(4) Labor service charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by this warranty. Reception problems caused by inadequate antenna systems, misaligned satellite dishes, cable television distribution, VCRs, DVD players/recorders, personal computer level IEEE-1394 devices, and any other connected signal source device are your responsibility.
(5) Warranties extend only to defects in materials or workmanship as limited above, and do not extend to any LCD Television or parts that have been lost or discarded by you or to damage to the LCD Television or parts caused by fires, misuse, accident, Acts of God (such as lightning or fluctuations in electric power), improper installation, improper maintenance, or use in violation of instructions furnished by TACP; use or malfunction through simultaneous use of this LCD Television and connected equipment; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible.

How to Obtain Warranty Service
If, after following all of the operating instructions in this manual and reviewing the section entitled “Troubleshooting,” you find that service is needed:
(1) To find the nearest TACP Authorized Service Station, visit TACP’s website at www.tacp.toshiba.com or contact TACP’s Consumer Solution Center toll free at 1-800-575-5469.
(2) You must present your original bill of sale or other proof of purchase to the TACP Authorized Service Station.

For additional information, visit TACP’s website: www.tacp.toshiba.com

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No person, agent, distributor, dealer, or company is authorized to change, modify, or extend the terms of these warranties in any manner whatsoever. The time within which an action must be commenced to enforce any obligation of TACP arising under the warranty or any statute or law of the United States or any state thereof is hereby limited to ninety (90) days from the date you discover, or should have discovered, the defect. This limitation does not apply to implied warranties arising under the law of any state of the U.S.A.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE IN THE U.S.A. SOME STATES OF THE U.S.A. DO NOT ALLOW LIMITATIONS ON THE DURATION OF AN IMPLIED WARRANTY, WHEN AN ACTION MAY BE BROUGHT, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, THEREFORE, THE ABOVE PROVISIONS MAY NOT APPLY TO YOU UNDER SUCH CIRCUMSTANCES.
Limited Canada Warranty for LCD Televisions

Toshiba Canada Limited ("TCL") makes the following limited warranties to original consumers in Canada. THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS TOSHIBA BRAND FLAT PANEL TELEVISION (the "TELEVISION" or "TCL") AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

This Limited Warranty is only effective if the Television is: (i) purchased as new and unopened from TCL or from TCL’s authorized distributors, dealers or resellers ("TCL") or their Related Parties; (ii) used only in Canada, including, without limitation, the United States and Mexico, and used in Canada, are not covered by these warranties.

Limited Warranty on Parts and Labour

Subject to the more limited warranty if the Television is used for any commercial or business purposes as set out below, TCL warrants the Television and its parts against material defects in materials or workmanship, that result in the Television failing for a period of ninety (90) days after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL’S OPTION, REPAIR OR REPLACE THE DEFECTIVE PART WITH A NEW OR REFURBISHED PART. THE LIMITED WARRANTY ON PARTS AND LABOUR APPLIES ONLY TO THE ORIGINAL PURCHASER OF THE TELEVISION. Dependency on the type of repair required, the service will either be performed in your home or the Television will be taken to an ASP for repair and returned to your home at no cost to you. IN-HOME SERVICE ONLY APPLIES WITHIN 100 KILOMETERS OF AN ASP. IF YOU ARE NOT WITHIN 100 KILOMETERS OF AN ASP, YOU MUST DELIVER THE TELEVISION TO AN ASP. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE ASP. FOR TELEVISIONS OVER 32 INCHES:

a. You have the option of taking the Television to a TCL-AUTHORIZED SERVICE PROVIDER ("ASP"), YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE ASP.

b. You have the option of delivering the Television to a TCL-AUTHORIZED SERVICE PROVIDER ("ASP"), You MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE ASP.

c. Should the Television fail for a period of ninety (90) days after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL’S OPTION, REPAIR OR REPLACE THE DEFECTIVE PART WITH A NEW OR REFURBISHED PART.

d. FOR TELEVISIONS OVER 32 INCHES:

DURING THIS PERIOD, THIS WARRANTY APPLIES ONLY TO TELEVISIONS 32 INCHES OR LESS:

a. For the first year after the date of original retail purchase, you have the option of delivering the Television to a TCL-AUTHORIZED SERVICE PROVIDER ("ASP"), YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE ASP.

b. After the first year, you have the option of delivering the Television to a TCL-AUTHORIZED SERVICE PROVIDER ("ASP"), You MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE ASP.

Limited Warranty on Commercial Uses

TCL warranties that the Televisions are used for any commercial or business purposes as follows: all parts are warranted against material defects in materials or workmanship that result in the Television failing for a period of ninety (90) days after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL’S OPTION, REPAIR OR REPLACE THE DEFECTIVE PART WITH A NEW OR REFURBISHED PART. THE LIMITED WARRANTY ON PARTS AND LABOUR APPLIES ONLY TO THE ORIGINAL PURCHASER OF THE TELEVISION. FOR TELEVISIONS OVER 32 INCHES:

a. You have the option of taking the Television to a TCL-AUTHORIZED SERVICE PROVIDER ("ASP"), YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE ASP.

b. You have the option of delivering the Television to a TCL-AUTHORIZED SERVICE PROVIDER ("ASP"), You MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE ASP.

c. Should the Television fail for a period of ninety (90) days after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL’S OPTION, REPAIR OR REPLACE THE DEFECTIVE PART WITH A NEW OR REFURBISHED PART.

d. FOR TELEVISIONS OVER 32 INCHES:

DURING THIS PERIOD, THIS WARRANTY APPLIES ONLY TO TELEVISIONS 32 INCHES OR LESS:

a. You have the option of delivering the Television to a TCL-AUTHORIZED SERVICE PROVIDER ("ASP"), YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE ASP.

b. After the first year, you have the option of delivering the Television to a TCL-AUTHORIZED SERVICE PROVIDER ("ASP"), You MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE ASP.

Rental Units

The warranty for Television rental units begins with the date of first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first. Your warranty is:

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

(1) You must provide your bill of sale or other proof of purchase.

(2) All warranty servicing of this Television must be performed by an ASP.

(3) The warranties from TCL are effective only if the Television is (i) purchased as new and unopened from TCL or from TCL’s authorized distributors, dealers or resellers ("TCL") and (ii) located and operated in Canada.

(4) Labour charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by these warranties. Warranty servicing of any kind required because of inadequate antenna systems are your responsibility.

(5) Warranties extend only to material defects in materials or workmanship as limited above, and do not extend to:

a. Service, rectification or repair made necessary by accident, misuse, abuse, moisture, liquids, dust, dirt, neglect, accident, damage, 24/7 applications, improper installation, improper operation, improper cleaning, improper maintenance, normal wear and tear, screen burn or image retention caused by prolonged display of static images and/or pictures, not caused by a defect in the TV, and/or emission of light under the control of TCL, including fire, theft, acts of God, alteration, power failures, power surges or power fluctuations, power interruptions, other electrical faults, or repairs, modifications or replacements by persons other than those authorized by TCL to service the Television.

b. Replacement of missing, discarded or lost parts, the provision of retrofits, or preventive maintenance.

c. The cost of repair that is cosmetic only or does not affect the Television functionality, such as wear and tear, scratches and dents;

d. Warranties are void if the product has been modified or repaired by persons other than those authorized by TCL to service the Television.

e. Replacement or repair of damaged accessory items (such accessory items may be covered by their own warranty). This warranty does not cover replacements or repairs of parts damaged by the user or installation of non-Toshiba modifications to the Television.

Chapter 9: Appendix

Disclaimer and Limitation of Remedy

This Limited Warranty is not made any further extend to:

(1) To find the nearest ASP, visit TCL’s web site at www.toshiba.ca

(2) If you have any questions about the operating instructions in this manual and checking the Troubleshooting section, you find that service is needed.

(3) If the customer uses the Television in any critical application, the customer shall be deemed to be separated from the service or refusal to service such Television and further shall disclaim any and all liability, damages and consequences arising out of the service or refusal to service such Television and further shall disclaim any and all liability, damages and consequences that may arise or result from the use of the Television in any critical applications.

General Provisions

To the extent that any provision of this limited warranty should generally be found to be unenforceable, the unenforceable provision shall be severed from the warranty and deemed not to form part of the warranty. The remaining provisions shall continue to be valid and enforceable.

How to Obtain Warranty Services

If following all of the operating instructions in this manual and checking the Troubleshooting section, you find that service is needed. TCL reserves the right, at its option, to repair or to replace the Television and to charge you for all transportation and insurance charges for the Television to and from the ASP.

For additional information, visit TCL’s website at www.toshiba.ca
A copy of the GPL source code in this product may be obtained by contacting Toshiba Consumer Solutions at (800) 631-3811. There will be a charge to cover the costs of providing the source code.

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