

TOSHIBA

Operating Guide

Integrated High Definition LCD Television

COLORSTREAM[®] HD THEATERWIDE **HD**

DOLBY
DIGITAL

SRS
WOW

HDMI **HDTV**
HIGH DEFINITION TELEVISION

26HL66

32HL66

37HL66

IMPORTANT NOTE

Before connecting, operating, or adjusting this product, carefully read the Important Safety, Installation, Care, and Service information in the separate *Installation Guide*.

For an overview of steps for setting up your new TV, see page 4.

Note: To display a High Definition picture, the TV must be receiving a High Definition signal (such as an over-the-air High Definition TV broadcast, a High Definition digital cable program, or a High Definition digital satellite program). For details, please contact your TV antenna installer, cable provider, or satellite provider.

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:

FCC Declaration of Conformity Compliance Statement (Part 15):

The **Toshiba 26HL66, 32HL66, and 37HL66 Televisions** comply with Part 15 of the FCC rules.

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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Welcome to Toshiba

Thank you for purchasing this Toshiba 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 or 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.

We have provided two separate Guides to facilitate the installation and operation of your TV.

Please use the Guides in the order shown below to get the most enjoyment from your new TV.

- 1) The *Installation Guide* explains how to connect your TV to your antenna and equipment.
- 2) The *Operating Guide* (this Guide) provides step-by-step instructions for using your TV's many features.

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).
- **HDMI™** digital, high-definition multimedia interface (☞ *Installation Guide*).
- **Two sets of ColorStream® HD** high-resolution component video inputs (☞ *Installation Guide*).
- **SRS WOW™** audio technologies (☞ page 43).
- **Digital Audio Out** optical audio connection with Dolby® Digital optical output format (☞ page 33; also see *Installation Guide*).
- **CableClear® DNR** digital picture noise reduction (☞ page 41).
- **PC IN (Analog RGB)** computer terminal (☞ *Installation Guide*).

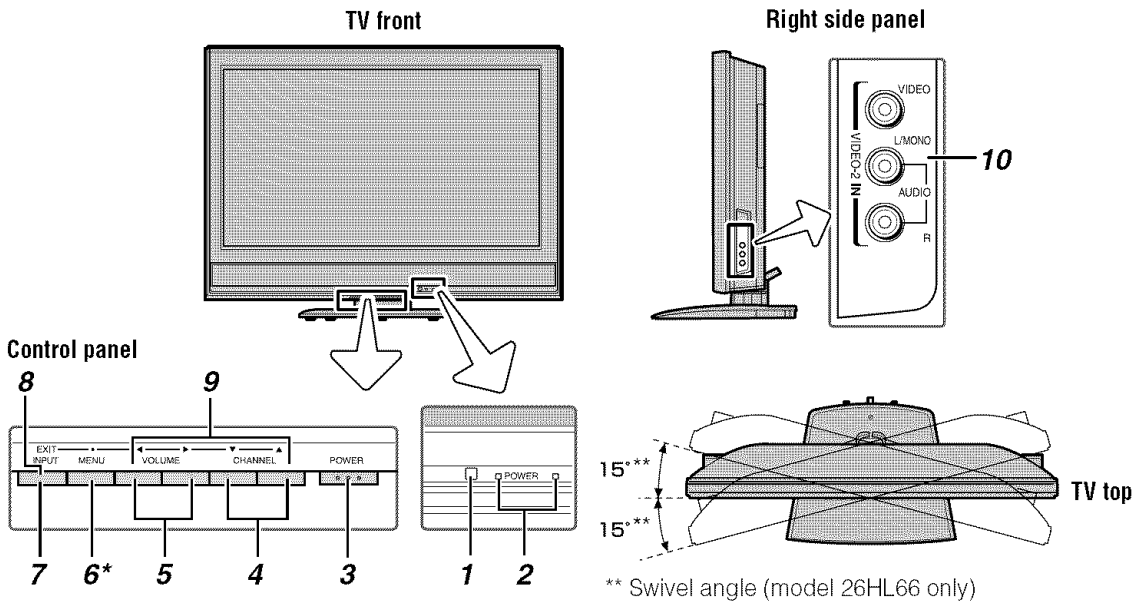
Overview of steps for installing, setting up, and using your new TV

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 in the separate *Installation Guide*. Keep this manual for future reference.

- 2 Observe the following when choosing a location for the TV:
 - Read the separate *Installation Guide*.
 - Read "Important notes about your LCD TV" (☞ page 2).
 - 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 as described in the *Installation Guide*.
 - 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 5–6).
- 5 Connect your other electronic device(s) to the TV (☞ *Installation Guide*).
- 6 Install the batteries in the remote control (☞ page 7).
- 7 See "Learning about the remote control" (☞ page 8) for an overview of the buttons on the remote control.
- 8 Program the remote control to operate your other device(s) (☞ pages 9–13).
- 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 the TV's menu system (☞ page 14).
- 11 Program channels into the TV's channel memory (☞ page 17).
- 12 For details on using the TV's features, see Chapters 5 and 6.
- 13 For help, refer to the Troubleshooting Guide, Chapter 7.
- 14 For technical specifications and warranty information, see Chapter 8.
- 15 Enjoy your new TV!

TV front and side panel controls and connections

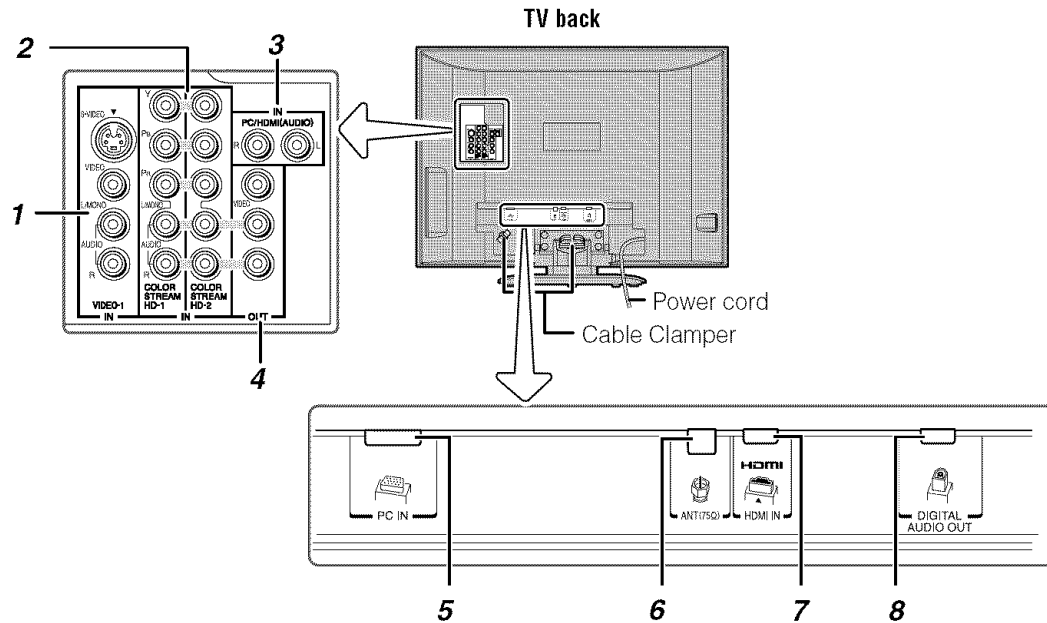


** Swivel angle (model 26HL66 only)

- 1 Remote sensor** — Point the remote control toward this remote sensor (☞ “Remote control effective range” on page 7).
- 2 Blue and Yellow LEDs**
Blue = Power indicator.
Yellow = Power-On Mode indicator (☞ “Selecting the Power-On Mode” on page 21). See “LED indications” on page 46 for additional information.
- 3 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 **POWER** button on the TV control panel for 5 or more seconds to reset the TV.
- 4 CHANNEL ▲▼** — When no menu is on-screen, these buttons change the channel (programmed channels only; ☞ page 17). When a menu is on-screen, these buttons function as up/down menu navigation buttons.
- 5 VOLUME ◀▶** — When no menu is on-screen, these buttons adjust the volume level. When a menu is on-screen, these buttons function as left/right menu navigation buttons.
- 6 *MENU (ENTER)** — Press to access the menu system (☞ pages 14–15). When a menu is on-screen, the **MENU** button on the TV’s control panel functions as the **ENTER** button.
- 7 INPUT** — Repeatedly press to change the source you are viewing (**ANT 1, VIDEO 1, VIDEO 2, ColorStream HD-1, ColorStream HD-2, HDMI, PC**).
- 8 EXIT** — Press to instantly close an on-screen menu.
- 9 ARROWS ▲▼◀▶** — When a menu is on-screen, these buttons function as up/down/left/right menu navigation buttons.
- 10 VIDEO-2 IN** — The side panel A/V connections are referred to as “**VIDEO 2**” and include standard A/V connections.

TV back panel connections

For an explanation of cable types and connections, see the *Installation Guide*.



1 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.

2 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.

3 PC/HDMI (AUDIO) IN — These analog audio inputs are shared between PC IN (item 5 on this page) and HDMI (DVI) IN (item 7 on this page). Their use can be configured in the **Setup** menu (page 38).

4 A/V OUT — Standard composite video and analog audio outputs for connecting a VCR for editing and dubbing.

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 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 3.

8 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.

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: 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 (see page 11).

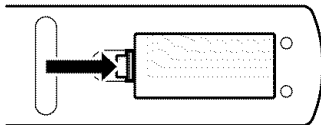
If you have a non-Toshiba device or a Toshiba device that the remote control is not preprogrammed to operate:

You can program the TV remote control so it will operate the other device (see pages 9–13).

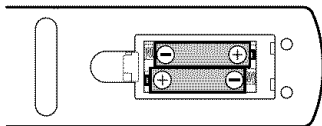
Installing the remote control batteries

- 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.

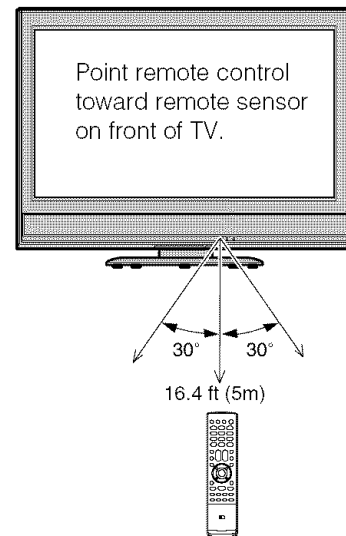
Note:

- 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.

- Always remove batteries from the remote control if they are dead or if the remote control is not to be used for an extended period of time. This will prevent battery acid from leaking into the battery compartment.

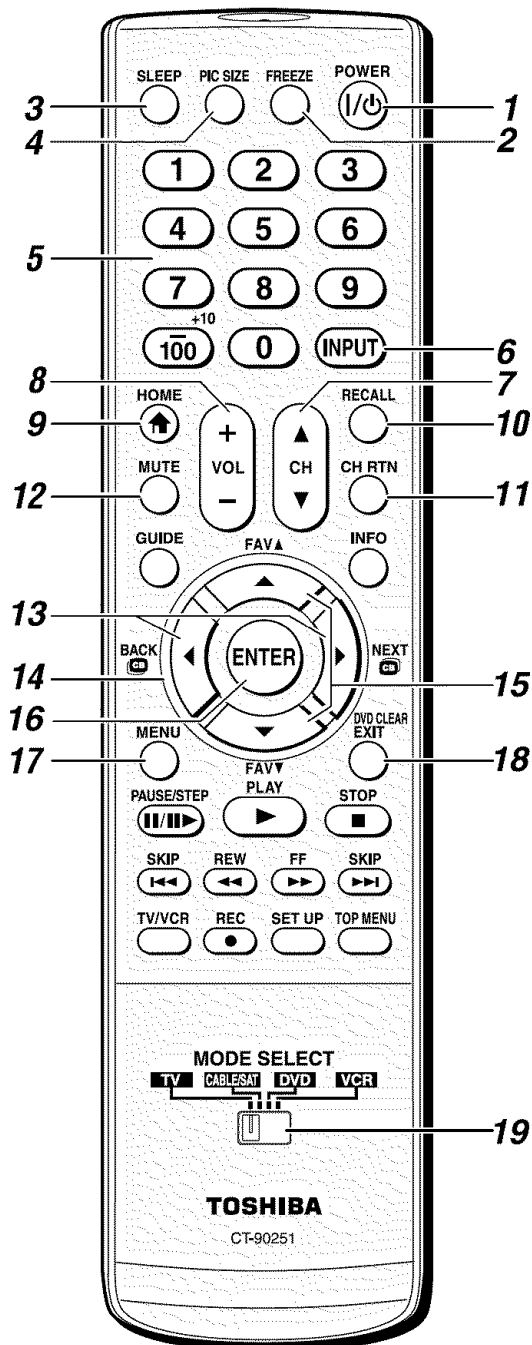
Remote control effective range

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.



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 10).



Note: The error message "NOT AVAILABLE" may appear if you press a key for a function that is not available.

- 1 **POWER** turns the TV on and off. When the TV is on, the blue LED indicator on the TV front will be illuminated.
- 2 **FREEZE** freezes the picture. Press again to restore the moving picture.
- 3 **SLEEP** accesses the sleep timer (page 39).
- 4 **PIC SIZE** cycles through the five pictures sizes: **Natural**, **TheaterWide 1/2/3**, and **Full** (page 26).
- 5 **Channel Numbers (0–9, –/100)** directly tune channels. The **100** button is used to tune digital channels (page 25) or to display the favorite channel list (page 18).
- 6 **INPUT** selects the video input source (page 22).
- 7 **CH ▲▼** cycles through programmed channels when no menu is on-screen (page 17), and functions as page up/down when a menu is on-screen.
- 8 **VOL + –** adjusts the volume level.
- 9 **HOME** (▲) accesses the Home function of the Channel Browser™ feature (page 25).
- 10 **RECALL** displays TV status information (page 39).
- 11 **CH RTN** returns to the last viewed channel (page 25).
- 12 **MUTE** reduces or turns off the sound (page 31).
- 13 **BACK** (◀) / **NEXT** (▶) While watching TV, these buttons open the Channel Browser™ and tune to the previous/next channel in the History List (page 23). (Also see "Arrow buttons.")
- 14 **Arrow buttons (▲▼◀▶)** When a menu is on-screen, these buttons select or adjust programming menus. (Also see "Arrow buttons.")
- 15 **FAV ▲▼** tunes to the next higher/lower favorite channel (page 18).
- 16 **ENTER** activates highlighted items in the main menu system.
- 17 **MENU** accesses the main TV menu system (pages 14 and 15).
- 18 **EXIT** closes on-screen menus.
- 19 **MODE SELECT Switch** switches between TV, CABLE/SAT, DVD, and VCR modes (page 9). Set to "TV" to control the TV.

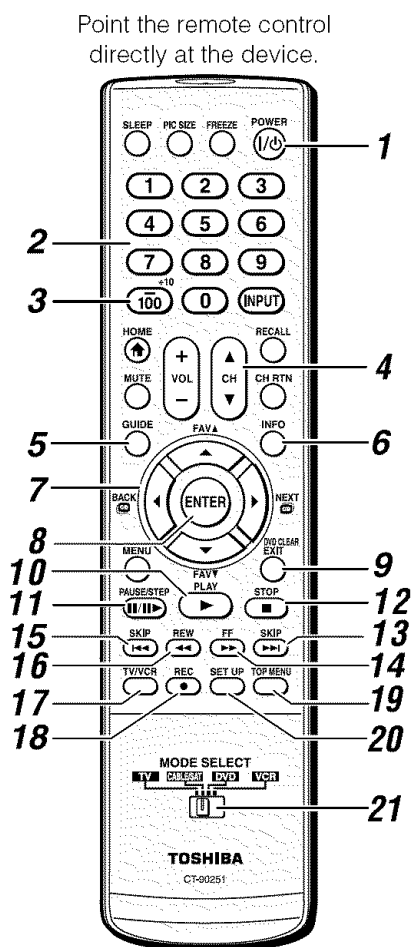
Using the remote control to operate your other devices

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) (see pages 11–13).

To use your TV remote control to operate a:

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

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



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

Remote Control functional key chart

Note:

- --- = key does not send a signal in that remote control mode.
- ←TV = key will affect the TV, even when the remote control is in another mode.

| REMOTE CONTROL KEY | Toshiba TV (TV) | CABLE | SAT (satellite) | VCR | DVD |
|--------------------|----------------------------------|--------------------|--------------------|--------------------|--------------|
| POWER | Power | Power | Power | Power | Power |
| SLEEP | Sleep timer | ← TV | ← TV | ← TV | ← TV |
| INPUT | TV/Video select | ← TV | ← TV | ← TV | ← TV |
| 1-9 | Digit 1-9 | Digit 1-9 | Digit 1-9 | Digit 1-9 | Digit 1-9 |
| 0 | Digit 0 | Digit 0 | Digit 0 | Digit 0 | Digit 0 |
| 100/-/+10 | – (sub channel) | --- | – (sub CH) | 100 | +10 |
| RECALL | RECALL | ← TV | ← TV | Display | ← TV |
| CH RTN | Previous channel | --- | --- | --- | --- |
| INFO | --- | --- | Info | --- | --- |
| MENU | Menu/DVD Menu | --- | Menu | --- | DVD Menu |
| ▲▼/FAV▲▼ | Menu select/ FAV up/down | --- | Menu up/down | --- | Menu up/down |
| ◀ S CB | Menu select/ Channel Browser™ | --- | Menu left | --- | Menu left |
| ▶ N CB | Menu select/ Channel Browser™ | --- | Menu right | --- | Menu right |
| ENTER | Enter | --- | Select Enter | --- | Enter |
| EXIT/DVD CLEAR | Exit | --- | Exit | --- | DVD Clear |
| VOL + – | Volume up/down | ← TV | ← TV | ← TV | ← TV |
| CH▲▼ | Channel up/down | Channel up/down | Channel up/down | Channel up/down | --- |
| PIC SIZE | Picture size | ← TV | ← TV | ← TV | ← TV |
| MUTE | Sound mute | ← TV | ← TV | ← TV | ← TV |
| GUIDE | --- | --- | SAT Guide | --- | --- |
| FF | --- | --- | --- | Fast FWD | Fast FWD |
| PAUSE/STEP | --- | --- | --- | Pause | Pause |
| PLAY | --- | --- | --- | Play | Play |
| REW | --- | --- | --- | Rewind | Rewind |
| HOME | Channel Browser™ Home | --- | --- | --- | --- |
| STOP | --- | --- | --- | Stop | Stop |
| FREEZE | Freeze picture | ← TV | ← TV | ← TV | ← TV |
| SKIP ◀◀ | --- | --- | --- | --- | Skip REV |
| SKIP ▶▶ | --- | --- | --- | --- | Skip FWD |
| TV/VCR | --- | --- | --- | TV/VCR | --- |
| REC | --- | --- | --- | Record (2 click) | --- |
| SET UP | --- | --- | --- | --- | DVD Setup |
| TOP MENU | --- | --- | --- | --- | Top Menu |

Programming the remote control to operate 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 9.

- 1** In the remote control code table (page 12), 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), DVD (for a DVD player or HTIB [home theater in a box]), or VCR (for a VCR or TV/VCR combo).
- 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:

| DEVICE | CODE | DEVICE | CODE |
|--------|------|--------|------|
| | | | |
| | | | |
| | | | |

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.

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

| | |
|---------------------|--|
| ABC | 061, 062, 063, 082, 084, 087, 091, 092, 096, 098 |
| Archer | 065, 092, 097, 099 |
| Cableview | 064, 094 |
| Century | 092 |
| Citizen | 090, 092, 097 |
| Contec | 083, 085, 086, 088, 093, 098 |
| Diamond | 093 |
| Eagle | 091 |
| GE | 061, 062 |
| Gemini | 069, 070, 094 |
| Hamlin | 093 |
| Hitachi | 062, 095, 096 |
| Jasco | 097 |
| Magnavox | 072, 096 |
| Memorex | 091, 092, 104 |
| Motorola/GI/Jerrold | 062, 069, 071, 082, 086, 089, 091, 096 |
| Multi Canal | 090 |
| Novavision | 101 |
| Panasonic | 081, 083, 085 |
| Philco | 087 |
| Philips | 066, 067, 068, 070, 072, 073, 074, 075, 091, 092 |
| Pioneer | 076, 077 |
| Proscan | 061, 062 |
| Radio Shack | 092, 097, 099 |
| RCA | 064, 081 |
| Realistic | 065 |
| Recoton | 102 |
| Samsung | 077, 090 |
| Scientific Atlanta | 063, 078, 079, 080, 088, 098, 101, 105 |
| Sears | 095 |
| Signature | 062 |
| Signature 2000 | 096 |
| Sprucer | 081, 085 |
| Starcom | 069, 082, 087, 096, 103, 104 |
| Stargate | 069, 090 |
| Sylvania | 095, 100 |
| TeleView | 090 |
| Texscan | 100 |
| Tocom | 071, 084, 085 |
| U. S. Electronics | 087, 096, 098 |
| United Cable | 082 |
| Universal | 065, 092, 097, 099, 102, 103 |
| Wards | 096 |

Satellite receiver

| | |
|--------------|----------|
| Alphastar | 038, 059 |
| Chaparral | 034 |
| DISH Network | 057 |

| | |
|------------------------|---|
| Drake | 020, 040, 044, 046, 050, 053 |
| Echostar | 018, 041, 051 |
| Express Vu | 057 |
| Fujitsu | 027 |
| GE | 008, 009, 013 |
| General Instruments | 010, 011, 012, 022, 023, 031, 049 |
| Hitachi | 033 |
| Hughes | 033 |
| Hughes Network Systems | 019 |
| Intersat | 048 |
| Janeil | 027 |
| JVC | 017, 057 |
| Kenwood | 029 |
| Magnavox | 060 |
| Optimus | 058 |
| Pansat | 036, 052 |
| Primestar | 015, 042 |
| Proscan | 008, 009, 013 |
| Radio Shack | 022, 023, 030 |
| RCA | 008, 009, 013, 016 |
| Realistic | 030 |
| Samsung | 059 |
| Sony | 014, 055 |
| Star Choice | 057 |
| Star Trak | 025, 026, 037, 054 |
| STS | 024 |
| Toshiba | 000, 001, 002, 003, 004, 005, 006, 007, 020, 031, 056 |
| Uniden | 021, 028, 030, 032, 035, 039, 043, 045, 047, 058 |
| Zenith | 027 |

TV/VCR Combo

| | |
|------------|---------------|
| Action | 078 |
| GE | 059, 062 |
| Goldstar | 065 |
| Panasonic | 065 |
| Precision | 078 |
| Quasar | 065 |
| Realistic | 079 |
| Sony | 074 |
| Toshiba | 057 |
| Totevision | 009, 010, 065 |
| Zenith | 065 |

DVD/VCR Combo

| | |
|----------|------------------|
| Go Video | DVD=087, VCR=081 |
| JVC | DVD=088, VCR=082 |
| RCA | DVD=089, VCR=083 |
| Samsung | DVD=090, VCR=084 |
| Sanyo | DVD=091, VCR=085 |
| Zenith | DVD=092, VCR=086 |

DVD player

| | |
|-----------|----------|
| Aiwa | 006, 015 |
| Apex | 016, 017 |
| BOSE | 097 |
| Broksonic | 018 |
| Clarion | 019 |

| | |
|-----------|-----------------------------------|
| Classic | 020 |
| Daewoo | 021 |
| Denon | 022, 023, 024, 025 |
| Emerson | 026, 027 |
| Fisher | 028 |
| Funai | 027 |
| GE | 001, 029, 030 |
| Go Video | 087 |
| GPX | 031 |
| Hitachi | 005, 032, 033, 034, 035 |
| JVC | 003, 007, 036, 042, 088 |
| Kenwood | 037 |
| Konka | 008, 009 |
| Magnavox | 004, 038 |
| Memorex | 039 |
| Mintek | 040 |
| NAD | 026 |
| Nakamichi | 041 |
| Norcent | 043 |
| Onkyo | 044 |
| Oritron | 058 |
| Panasonic | 010, 045, 046, 047, 048, 049, 050 |
| Philips | 004, 051 |
| Pioneer | 052, 053, 054, 055 |
| Proscan | 001, 056 |
| Qwestar | 057, 058 |
| RCA | 001, 002, 059, 089 |
| Sampo | 060 |
| Samsung | 061, 062, 086, 090 |
| Sansui | 073 |
| Sanyo | 063, 091 |
| Sharp | 064, 067 |
| Sherwood | 074 |
| Sony | 011, 012, 065, 066, 068, 069, 070 |
| Sylvania | 027 |
| Teac | 071 |
| Technics | 072 |
| Techwood | 075 |
| Toshiba | 000, 013, 076, 077, 078 |
| Yamaha | 079, 080, 081 |
| Zenith | 014, 082, 092 |

Portable DVD player

| | |
|-----------|---------------|
| Aiwa | 093 |
| Audiovox | 094, 095 |
| Panasonic | 024, 096, 099 |
| RCA | 098 |

VCR

| | |
|---------------|--|
| Admiral | 049 |
| Aiko | 019 |
| Aiwa | 018 |
| Akai | 003, 004, 037, 038, 039, 058, 069 |
| Audiovox | 010 |
| Bell & Howell | 007, 068 |
| Broksonic | 008, 017 |
| Calix | 010 |
| Carver | 026 |
| CCE | 019 |
| Citizen | 009, 010, 011, 012, 013, 014, 015, 019, 057, 073 |
| Colortyme | 005 |
| Craig | 009, 010, 016, 061, 065, 079 |

Chapter 2: Using the remote control

| | | | | | |
|-----------------|---|-----------------------|--|--------------------|--|
| Curtis Mathes | 001, 005, 009, 012, 014, 040, 048, 053, 056, 057 | Panasonic | 036, 045, 046, 057, 061, 072, 079 | Wards | 009, 010, 011, 016, 018, 020, 024, 025, 031, 035, 049, 051, 056, 057, 060, 065, 066, 079 |
| Daewoo | 011, 013, 015, 017, 018, 019, 057, 078 | Pentax | 012, 024, 025, 035, 042, 053, 063 | White Westinghouse | 073 |
| Daytron | 078 | Pentax Research | 014 | XR-1000 | 018 |
| Denon | 063 | Philco | 026, 027, 063 | Yamaha | 005, 006, 007, 014, 037, 053 |
| Dimensia | 001, 048 | Philips | 026, 031, 044, 057 | Zenith | 004, 032, 034, 041, 047, 069, 086 |
| Electrohome | 010, 020, 065 | Pioneer | 006, 024, 043, 055 | | |
| Emerson | 003, 008, 010, 011, 017, 018, 020, 028, 039, 054, 057, 062, 065, 068, 072 | Portland | 012, 013, 015 | | |
| Fisher | 007, 016, 021, 022, 023, 057, 064, 068, 070, 071, 079 | Proscan | 001, 002, 048 | | |
| Fuji | 004, 041 | Proton | 061 | | |
| Funai | 018, 073 | Quasar | 045 | | |
| Garrard | 018 | Radio Shack | 010, 031, 065 | | |
| GE | 001, 002, 009, 040, 042, 048, 056 | Radio Shack/Realistic | 007, 009, 010, 016, 018, 020, 021, 022, 031, 049 | | |
| Go Video | 056, 059, 061, 081 | Radix | 010 | | |
| Goldstar | 005, 010, 014, 054, 056, 065, 067 | RCA | 001, 002, 003, 009, 024, 025, 029, 035, 040, 042, 045, 048, 055, 056, 063, 071, 083 | | |
| Gradiente | 018, 065 | Realistic | 007, 009, 010, 011, 016, 018, 020, 021, 022, 031, 049, 051, 056, 060, 065, 075, 079 | | |
| Harman Kardon | 005 | Ricoh | 047 | | |
| Hitachi | 024, 025, 035, 037, 042, 063, 070, 080 | Runco | 034 | | |
| JBL | 076 | Samsung | 009, 011, 038, 056, 073, 084 | | |
| JC Penney | 005, 006, 007, 008, 009, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065 | Sansui | 006, 037, 043, 061 | | |
| Jensen | 024, 025, 037 | Sanyo | 007, 009, 016, 054, 064, 068, 071, 075, 079, 085 | | |
| JVC | 005, 006, 007, 014, 037, 043, 062, 063, 068, 082 | Scott | 008, 011, 017, 028, 030, 057, 065, 072 | | |
| Kenwood | 005, 006, 007, 012, 014, 037, 043, 053, 068, 071 | Sears | 007, 010, 016, 021, 022, 023, 024, 025, 035, 053, 057, 063, 064, 065, 068, 071, 075, 079 | | |
| Kodak | 010 | Sharp | 013, 020, 031, 049, 051, 060, 066 | | |
| LG | 010 | Shintom | 004, 025, 032, 061 | | |
| Lloyds | 053, 073, 079 | Signature | 049 | | |
| Logik | 061 | Signature 2000 | 075 | | |
| LXI | 010 | Singer | 047, 061 | | |
| Magnasonic | 061, 065, 078 | Sony | 004, 032, 033, 041, 052, 058, 070, 074, 076, 077, 080 | | |
| Magnavox | 026, 027, 034, 044, 057, 061, 072 | STS | 035 | | |
| Marantz | 005, 006, 007, 012, 014, 026, 053, 067 | Sylvania | 018, 026, 027, 028, 044, 072 | | |
| Memorex | 007, 009, 010, 016, 018, 034, 049, 063, 065, 066, 068, 075, 079 | Symphonic | 018, 051, 053, 073, 079 | | |
| MGA | 020, 028, 039 | Tandy | 007 | | |
| MGN | 056 | Tashiko | 010 | | |
| Minolta | 024, 025, 035, 063 | Tatung | 037 | | |
| Mitsubishi | 020, 024, 025, 028, 039, 043, 065 | Teac | 018, 029, 037 | | |
| Montgomery Ward | 049 | Technics | 036 | | |
| Motorola | 049 | Teknika | 010, 018, 065 | | |
| MTC | 009, 046, 061 | Toshiba | 000, 011, 021, 023, 024, 028, 030, 039, 057, 074, 078, 079 | | |
| Multitech | 009, 012, 018 | Totevision | 009, 010, 065 | | |
| NEC | 005, 006, 007, 012, 014, 037, 043, 053, 054, 067, 070 | Unitec | 073 | | |
| Nikko | 010 | Unitech | 009 | | |
| Noblex | 009 | Vector Research | 005, 006, 011, 012, 053 | | |
| Optimus | 010, 049, 065 | Video Concepts | 005, 006, 011, 012, 039, 053 | | |
| Optonica | 031 | | | | |
| Orion | 054, 057, 062, 065, 068, 072 | | | | |


HTIB







| | |
|-----------|-----|
| Lasonic | 083 |
| Panasonic | 084 |
| Venturer | 085 |

Chapter 3: 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  on the remote control or TV control panel.

| Icon | Item | Option |
|---------------------|---|--|
| Applications | Channel Browser | → [Launches the Channel Browser™] |
| |  Digital CC/Audio Selector | → [Launches the ATSC Digital CC Selector] (This option is not available if the TV is not tuned to a digital channel.) |
| Video | Picture Settings | → [Opens the Picture Settings menu] |
| |  Advanced Picture Settings | → [Opens the Advanced Picture Settings menu] |
| | Theater Settings | → [Opens the Theater Settings menu] |
| Audio | Audio Settings | → [Opens the Audio Settings menu] |
| |  Advanced Audio Settings | → [Opens the Advanced Audio Settings menu] |
| | Audio Setup | → [Opens the Audio Setup menu] |
| Preferences |  Favorite Channels | → [Opens the Favorite Channels menu] |
| | Closed Caption Mode | → OFF/CC1/CC2/CC3/CC4/T1/T2/T3/T4 |
| | Closed Caption Advanced | → [Opens the Closed Caption Advanced menu] |
| | Input Labeling | → [Opens the Input Labeling menu] |
| | Menu Language | → English / Français / Español |
| | Channel Browser Setup | → [Opens the Channel Browser Setup menu] |
| |  Enable Rating Blocking | → Off/On |
| Locks | Edit Rating Limits | → [Opens the Edit Rating Limits menu] |
| | Channels Block | → [Opens the Channel Block menu] |
| | Input Lock | → Off/Video/Video+ |
| | Front Panel Lock | → Off/On |
| | New PIN Code | → [Opens the New PIN Code entry screen] |
| |  Installation | → [Opens the Installation menu (see page 15)] |
| Setup | Sleep Timer | → [Opens the Sleep Timer menu] |
| | PC Settings | → [Opens the PC Settings menu] |
| | PC Audio | → No/Yes |
| | HDMI Audio | → Auto/Digital/Analog |
| | Power-On Mode | → Power-Saving/Fast |

Setup/Installation menu layout

The Installation menu contains the Terrestrial and System Status menus.

To open the **Installation** menu (illustrated below), press **MENU** on the remote control or TV control panel, open the **Setup** menu, select **Installation**, and press **ENTER**.

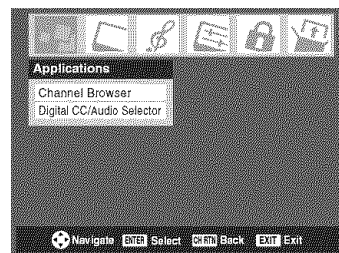
| | Icon | Item | Option |
|--|---|---------------------|--|
| Press MENU . Open the Setup menu, and then open the Installation sub-menu. | Terrestrial  | Input Configuration | → [Opens the Input Configuration menu] |
| | | Channel Program | → [Scans for new channels on ANT1] |
| | | Channel Add/Delete | → [Opens the Channel Add/Delete menu] |
| | | Signal Meter | → [Opens the Signal Meter menu] |
| | System Status  | System Information | → [Opens the System Information menu] |

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 **MENU** to open the menu system.
- When a menu is open, use the up/down/left/right arrow buttons (**▲▼◀▶**) on the remote control or TV control panel to move in the corresponding direction in the menu.
- Press **ENTER** 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 approx. 5 minutes).
- To close a menu instantly, press **EXIT**.

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

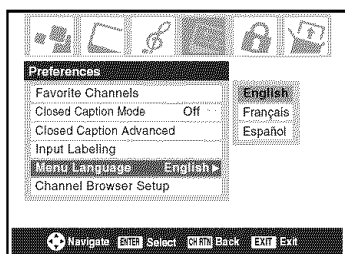


Selecting the menu language

You can choose from three different languages (English, French and Spanish) for the menus and messages.

To select the menu language:

- 1 Press **MENU** and open the **Preferences** menu.
- 2 Highlight **Menu Language** and press **▶**.
- 3 Press **▲** or **▼** to select your preferred menu language and press **ENTER**.

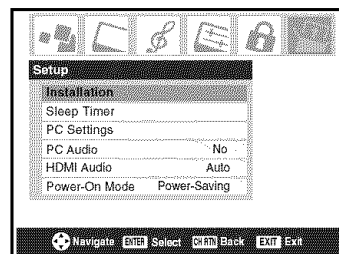


- 4 Press **EXIT** to close the **Preferences** menu.

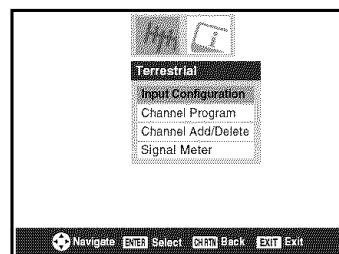
Configuring the input source for the ANT terminal

To configure the ANT input source:

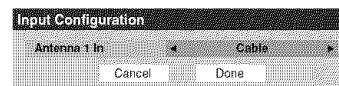
- 1 Press **MENU** and open the **Setup** menu.
- 2 Highlight **Installation** and press **ENTER**.



- 3 (A new set of **Installation** menu icons appears, as shown below.) Open the **Terrestrial** menu, highlight **Input Configuration**, and press **ENTER**.



- 4 Press **◀** or **▶** 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 **ENTER**. To revert to your original settings, highlight **Cancel** and press **ENTER**.

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.

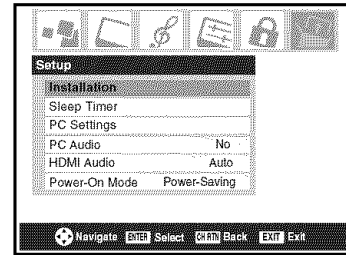
Note:

- You must configure the antenna input source before programming channels (page 16).
- 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 channel 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.

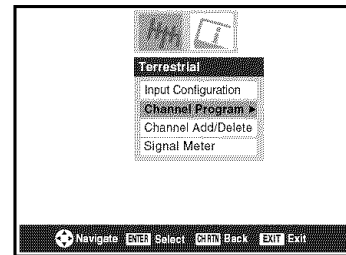
To program channels automatically:

- 1 Make sure you have configured the antenna input source (page 16).
- 2 Press and open the **Setup** menu.

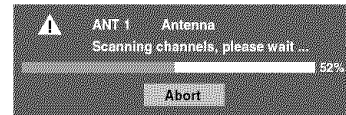
- 3 Highlight **Installation** and press .



- 4 (A new set of **Installation** menu icons appears, as shown below.) Open the **Terrestrial** menu, highlight **Channel Program**, and press .



- 5 Highlight **ANT 1** and then press to start automatic 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).

- 6 To cancel channel programming, either press or highlight **Abort** in the on-screen display and press . When channel programming is finished, press or to view the programmed channels.

Manually adding and deleting channels in the channel memory

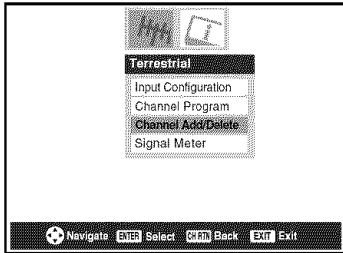
After automatically programming channels into the channel memory, you can manually add or delete individual channels.

To add or delete channels in the channel memory:

- 1 Press and open the **Setup** menu.
- 2 Highlight **Installation** and press .

(continued)

- 3 A new set of **Installation** menu icons appears, as shown below. Open the **Terrestrial** menu, highlight **Channel Add/Delete**, and then press **ENTER**.



To add a channel to the channel memory:

Highlight the unchecked box next to the channel number you want to add, and then press **ENTER** to check the box.

To manually add digital subchannels on a physical channel:

Use the Channel Numbers and Dash (**100**) 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 **ENTER** to uncheck the box.

To save your new settings:

Highlight **Done** and press **ENTER**.

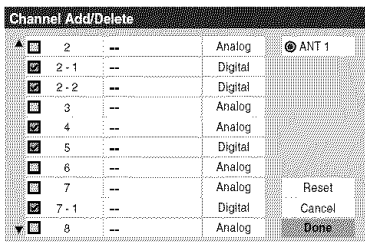
To revert to your original settings:

Highlight **Cancel** and press **ENTER** before saving.

To remove all channels from the channel memory:

Highlight **Reset** and press **ENTER**, and then highlight **Done** and press **ENTER**.

*Note: This action cannot be cancelled unless you highlight **Cancel** and press **ENTER** before saving your changes.*

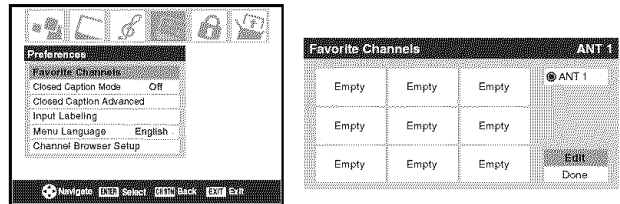


Programming your favorite channels

You can program up to nine antenna channels as favorite channels. You can then scan through your favorite channels only, skipping other channels you do not normally watch.

To add and delete channels in the Favorite Channel lists:

- 1 Press **MENU** and open the **Preferences** menu.
- 2 Highlight **Favorite Channels** and press **ENTER** (see illustration, below left).
- 3 Use **▲▼** to select **ANT 1** and press **ENTER** (see illustration, below right).
- 4 Highlight **Edit** and press **ENTER**.



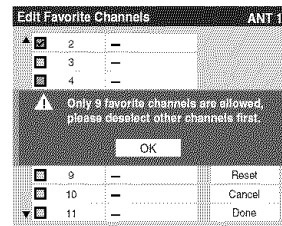
5a To add a channel:

Use **▲▼** to highlight an unchecked box next to a channel you want to set as a favorite, and then press **ENTER** to check the box.

Note: You must first use Channel Program or Channel Add/ Delete to add channels to the channel memory before setting up favorite channels.

5b To delete the channel:

Highlight a checked box and press **ENTER** to uncheck it.

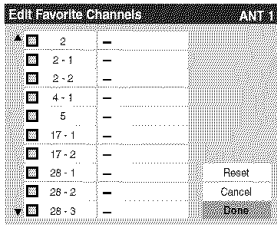


Note: If you try to add more than nine favorite channels, an error message will appear. You will need to delete (uncheck) a channel before you can add another.

- 6 When you are finished adding or deleting channels, highlight **Done** and press **ENTER**.

To clear the Favorite Channel lists:

- 1 Press **MENU** and open the **Preferences** menu.
- 2 Highlight **Favorite Channels** and press **ENTER**.
- 3 Highlight **Edit** and press **ENTER**.
- 4 Highlight **Reset** and press **ENTER**. All channels in the Favorite Channels list will be deleted (unchecked).
- 5 Highlight **Done** and press **ENTER**.



To tune your favorite channels (antenna channels only):

Press **FAV▲ / FAV▼**.

To tune your favorite antenna channels using the Favorite Channel list:

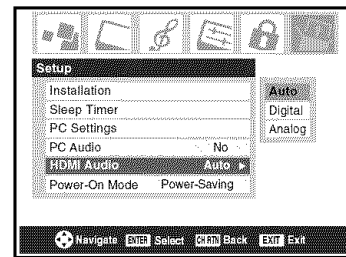
- 1 Press **100** to display the Favorite Channel list.
- 2 Press the corresponding number button (1-9) to select your desired channel.



Setting the HDMI™ audio mode

To set the HDMI audio mode:

- 1 Press **MENU** and open the **Setup** menu.
- 2 Highlight **HDMI Audio** and press **▶**.
- 3 Press **▼** or **▲** to select the HDMI audio mode (**Auto**, **Digital**, or **Analog**) and press **ENTER**. (**Auto** is the recommended mode.) See “Connecting an HDMI or DVI device to the HDMI input” in the *Installation Guide*.



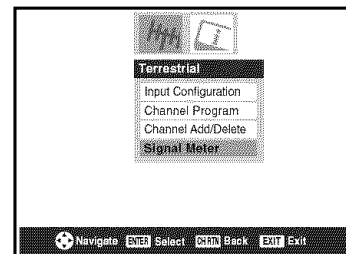
Note: Because the PC IN and HDMI (DVI) IN inputs share the same set of analog audio inputs, the **PC Audio** menu setting influences the **HDMI Audio** menu setting. If **PC Audio** is set to “No,” the **HDMI Audio** setting changes to “Auto.” If **PC Audio** is set to “Yes,” the **HDMI Audio** setting is set to “Digital” and is grayed out in the menu. (Also see item 3 on page 6 and “Setting the PC Audio mode” on page 38.)

Viewing the digital signal meter

You can view the digital signal meter in the ANT 1 digital TV input source only.

To view the digital signal meter:

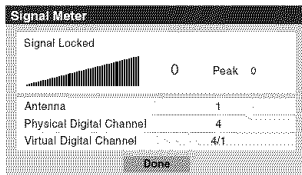
- 1 Press **MENU** and open the **Setup** menu.
- 2 Highlight **Installation** and press **ENTER**.
A new set of Installation menu icons appears, as shown in step 3 below.
- 3 Open the **Terrestrial** menu, highlight **Signal Meter**, and press **ENTER**.



(continued)

- Press **▲▼◀▶** to select the antenna input and digital channel whose signal you want to check.

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 **ENTER**.

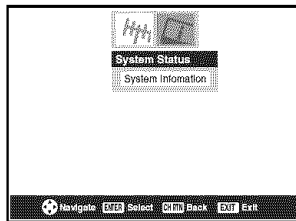
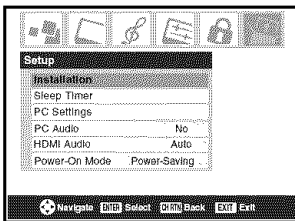
To return to normal viewing:

Press **EXIT**.

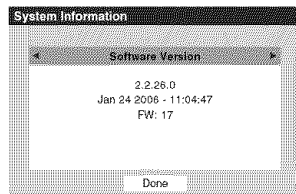
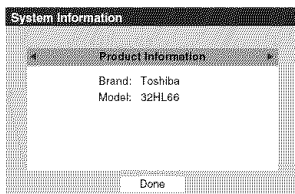
Viewing the system status

To view the system status:

- Press **MENU** and open the **Setup** menu.
- Highlight **Installation** and press **ENTER**. A new set of Installation menu icons appears, as shown below right.
- Open the **System Status** menu, highlight **System Information**, and press **ENTER**.



- Press **◀▶** to scroll through the menu bar to select either the **Product Information** or **Software Version** and view the related information.



To close the screen and return to the Installation menu:

Highlight **Done** and press **ENTER**.

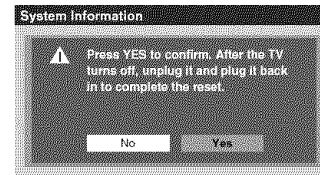
To return to normal viewing:

Press **EXIT**.

Reset Factory Defaults

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

- Follow steps 1–3 under “Viewing the system status” at left.
- Press **◀▶** to scroll through the menu bar to select **Factory Defaults**.
- Enter your PIN code (or 0000 if no PIN code has been set).
- Highlight **Yes** and press **ENTER**. 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 **ENTER**.

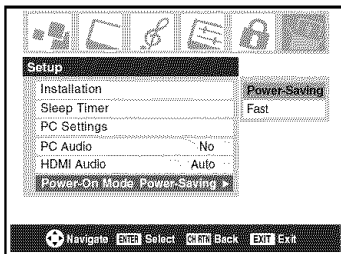
Selecting the Power-On Mode

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:

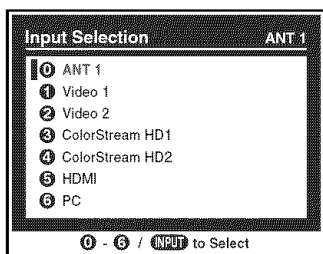
- 1 Press **MENU**, and open the **Setup** menu.
- 2 Highlight **Power-On Mode** and press **▶**.
- 3 Press **▲** or **▼** to select either **Power-Saving** or **Fast**.



Selecting the video input source to view

To select the video input source to view:

- 1 Press **INPUT** on the remote control or **INPUT** on the TV control panel.
 - 2 To select the input:
 - Press 0–6 to select the input source you want to view:
 - a) You can select the video input which will depend on the input terminals you used to connect your devices (see *Installation Guide*).
- The current signal source displays in the top right corner of the **Input Selection** screen.



- b) Repeatedly press **▲▼** on the remote control (or **CHANNEL ▲▼** on the control panel) to change the input; or
- c) Repeatedly press **INPUT** on the remote control or **INPUT** on the TV control panel to change the input.

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).
- The source can be “hidden” (see “Labeling the video input sources” at right).

Labeling the video input sources

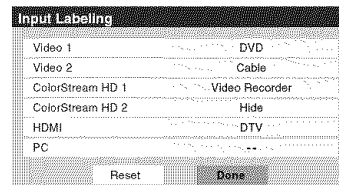
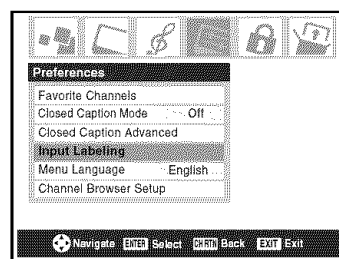
You can label each video input source according to the type of device you connected to each source, from the following preset list of labels:

- -- (default label)
- Cable
- DTV
- Satellite/DSS
- VCR
- Laser Disk
- DVD
- HD DVD
- Audio Receiver
- Compact Disc
- Video Recorder
- Game Console
- 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 “--,” “Hide,” or “Game Console” as the label.

To label the video input sources:

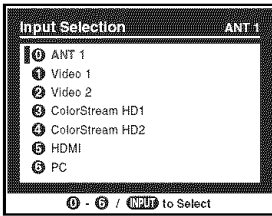
- 1 Press **MENU** and open the **Preferences** menu.
- 2 Highlight **Input Labeling** and press **ENTER**.
- 3 Press **▲** or **▼** to highlight the video source you want to label.



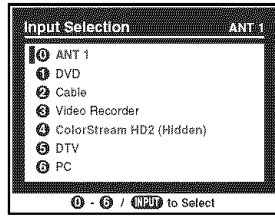
- 4 Press **◀** or **▶** to select the desired label for that input source. If a particular input is not used, you can select **Hide** as the label, which will cause that input to be “grayed out” in the **Input Selection** screen and skipped over when you press **INPUT** on the remote control.
- 5 To save the new input labels, highlight **Done** and press **ENTER**.
To revert to the factory default labels, highlight **Reset** and press **ENTER**.

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 DVD player to VIDEO 1, Cable TV to VIDEO 2, a video recorder to ColorStream HD1, and a DTV set-top box to HDMI. Also note that the ColorStream HD2 input is labeled "Hidden," which means that input will be skipped over when **INPUT** is pressed.



Input Selection screen with no inputs labeled.



Input Selection screen with all inputs labeled except input 4, which has been hidden.

To clear the input labels:

- 1 Press **MENU** and open the **Preferences** menu.
- 2 Highlight **Input Labeling** and press **ENTER**.
- 3 Highlight **Reset** and press **ENTER**.

Tuning channels

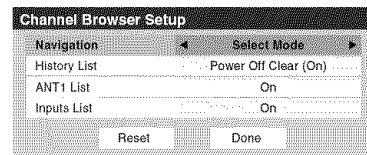
Tuning channels using the Channel Browser™

The Channel Browser™ stores the most recently viewed channels or inputs in a history list. In addition, it provides a list of all the available channels on the ANT1 input (up to 2000) and a list of all the inputs on the TV. This feature allows you to:

- Keep a history of the last 32 channels or inputs viewed.
- Quickly surf and tune your recently viewed channels/inputs from the Channel Browser™ (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.
- Set a "HOME" source for an **ANT1** channel or TV input.

To set up the Channel Browser™:

- 1 Press **MENU** and open the **Preferences** menu.
- 2 Highlight **Channel Browser Setup** and press **ENTER**.
- 3 Press **▲** to highlight **Navigation**, and then press **◀** or **▶** to select either **Browse Mode** or **Select Mode**.



- 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**, 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.

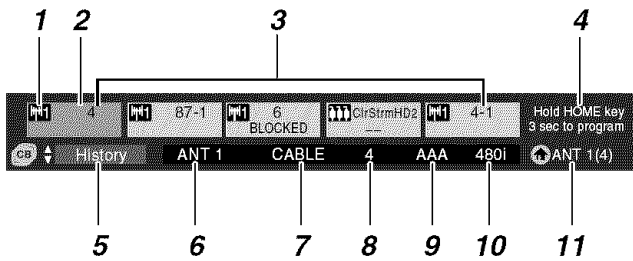
- 5 Press **▼** to highlight **ANT1 List**, and then press **◀** or **▶** to select **On** or **Off**.
- 6 Press **▼** to highlight **Inputs List**, and then press **◀** or **▶** to select **On** or **Off**.
- 7 To save your entries, highlight **Done** and press **ENTER**. To return to factory defaults, highlight **Reset** and press **ENTER**.

(continued)

To open the Channel Browser™:

- Press **BACK** ◀, **NEXT** ▶, or **HOME** on the remote control.
- Press **BACK** ◀ to surf backward through the previously tuned 32 channels or inputs in the History list, the channels in the ANT 1 channel list, or the inputs in the Inputs list.
- Press **NEXT** ▶ to surf forward through the channel/input History, the ANT 1 channel list, or the Inputs list.

Elements of the Channel Browser™



- 1 Input type
- 2 Highlighted item (channel or input)
- 3 Channels stored in the channel history
- 4 Instructions for programming the Home key (this will be replaced by the 6th item in the History list, ANT 1 list, or Inputs list).
- 5 Current list (**History**, **ANT 1** or **Inputs**)
- 6 Current input
- 7 Current antenna type (cable or TV)
- 8 Active channel number
- 9 Channel call letters (if available)
- 10 Resolution
- 11 Home source

To toggle among History, ANT 1 and Inputs lists:

After opening the Channel Browser™, press ▲ or ▼ to toggle among **History**, **ANT 1** and **Inputs**.

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.

To tune to a channel or input in Browse mode:

- 1 While watching TV, press **BACK** ◀ or **NEXT** ▶ 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 **EXIT** to close the Channel Browser™.

Note: The Channel Browser™ will close automatically if you do not make a selection within 30 seconds.

To tune to a channel or input in Select mode:

- 1 While watching TV, press **BACK** ◀ or **NEXT** ▶ to open the Channel Browser™ and surf back to a previous item or surf 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 the TV will not automatically tune to the channel or input.
- 2 Press **ENTER** to tune the TV to the highlighted item.
- 3 Press **EXIT** to close the Channel Browser™.

Adding and clearing channels and inputs in the channel history

Adding channels and inputs to the channel history:

As a channel or input is tuned, the Channel Browser™ adds it to the History 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 of the Channel Browser™. Press **BACK** ◀ to surf backward through the previously tuned channels/inputs. Any channel or input that is tuned repeatedly will not be repeated in the History, but instead is moved to the top 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 **CH** or **CH**, **FAV▲** or **FAV▼** on the remote control.
- All inputs that are tuned for at least 5 seconds.

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.

Clearing channels from the channel history:

- Reconfiguring the **ANT 1** input will clear the channel history.
- **Note:** See page 16 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.
- Turning off the TV will clear the channel history only if **History List** in the **Channel Browser Setup** is set to “**Power Off Clear (On)**.”

Using the Home feature

When you press **HOME** on the remote control, the TV will be tuned to the channel or input you set as "Home."

To set a channel or input as Home:

- 1 Tune the TV to the channel or input you would like to set as the Home source.
- 2 Press and hold **HOME** on the remote control for 3 seconds. When HOME is saved, the Channel Browser™ will appear at the bottom of the screen and the HOME icon will flash green.

To tune to HOME:

Press the **HOME** button on the remote to tune to your HOME channel or input. The Channel Browser™ will display when HOME is tuned unless all lists have been set to "Off" in the **Channel Browser Setup**.

If all lists are set to OFF:

- a) you will not be able to set the Home channel/input, if it is not already set; or
- b) if the Home channel/input is already set, pressing **HOME** on the remote control will tune to the Home source but will not display the Channel Browser™.

Tuning your favorite channels

To tune to the channels you programmed as Favorite Channels, press **FAV▲/FAV▼** or **(100)** (☞ page 18).

Tuning to the next programmed channel

To tune to the next programmed channel:

Press **(CH)** or **(CH)** on the remote control or TV control panel.

Note: This feature will not work unless you program channels into the TV's channel memory (☞ page 17).

Tuning to a specific channel (programmed or unprogrammed)

Tuning analog channels:

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

Tuning digital channels:

Press the Channel Number buttons (0–9) on the remote control, followed by the dash (**(100)**) button and then the sub-channel number. For example, to select digital channel 125-1, press 1, 2, 5, -, 1.

Note: If a digital channel is not programmed—either through the automatic channel scan (☞ page 17) or the channel add/delete function (☞ page 17)—you will have to tune the RF channel using the Channel Number and dash (**(100)**) buttons on the remote control.

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 (**(100)**) 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 ANT input and channel.

Switching between two channels using SurfLock™

The SurfLock™ feature temporarily "memorizes" one channel in the **CH RTN** button, so you can return to that channel quickly from any other channel by pressing **CH RTN**. To memorize a channel in 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 into 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.

Selecting the picture size

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

The way the image displays in any of the picture sizes will vary depending on the format of the program you are viewing. Select the picture size that displays the current program the way that looks best to you.

Your picture size preferences can be saved for each input on your TV.

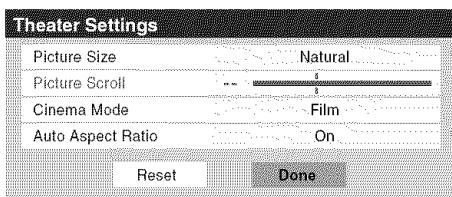
To select the picture size:

- 1 Press **PIC SIZE** on the remote control.
- 2 While the **Picture Size** screen is open, press the corresponding number button (0–4) to select the desired picture size.



Note:

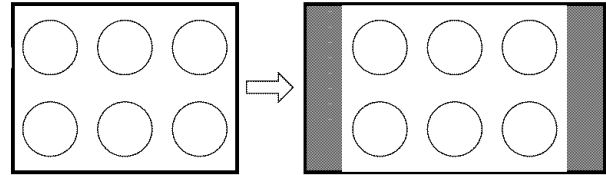
- You also can repeatedly press **PIC SIZE** to select the desired picture size (or press **▲▼** on the remote control while the **Picture Size** screen is open).
- **Full** may not be available for some program formats (it will be "grayed out" in the **Picture Size** screen).
- You also can select the picture size using the menu system. Select **Picture Size** in the **Theater Settings** menu. Select the input for which you want to save your picture settings. To save your settings, highlight **Done** and press **ENTER**.



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.

Natural picture size

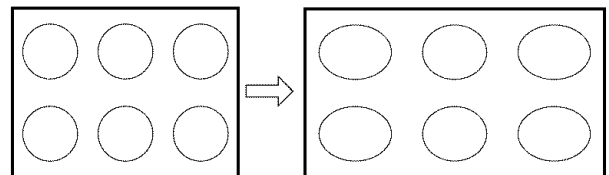
- The image is displayed close to its originally formatted proportion. Some program formats will display with sidebars and/or bars at the top and bottom.



Natural picture size example

TheaterWide 1 picture size (for 4:3 format programs)

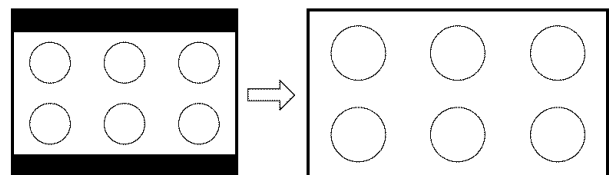
- The center of the picture remains close to its original proportion, but the left and right edges are stretched wider to fill the screen.



TheaterWide 1 picture size example

TheaterWide 2 picture size (for letter box programs)

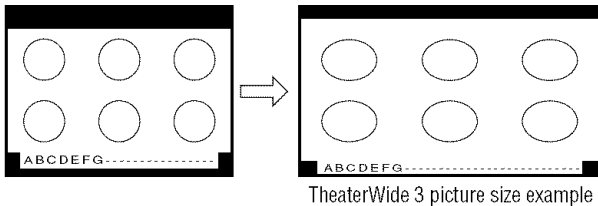
- The picture is stretched wider to fill the width of the screen, but only slightly stretched taller.
- The top and bottom edges of the picture are hidden. To view the hidden areas, see "Scrolling the TheaterWide® picture" on the next page.



TheaterWide 2 picture size example

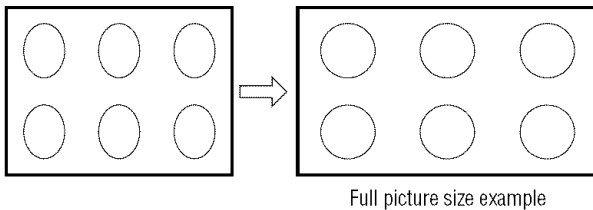
TheaterWide 3 picture size (for letter box programs with subtitles)

- 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” at right.



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.



Note:

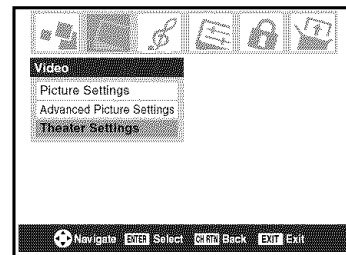
- If you select one of the TheaterWide® picture sizes, the top and bottom edges of the picture (including subtitles or captions) may be hidden. To view the hidden edges, either scroll the picture (**TheaterWide 2 and 3** only) or try viewing the program in **Full** or **Natural** picture size.
- The “picture size” illustrations are examples only. The format of the image (in any of the pictures sizes) will vary depending on the format of the signal you are currently watching.

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

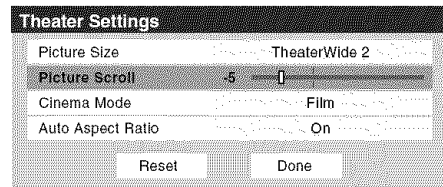
You can set separate scroll settings for the TheaterWide 2 and TheaterWide 3 modes for each input.

To set the scroll settings:

- 1 Press **MENU** and open the **Video** menu.
- 2 Highlight **Theater Settings** and press **ENTER**.



- 3 In the **Picture Size** field, select either **TheaterWide 2** or **TheaterWide 3** (you cannot scroll in any other mode).
- 4 Press **▼** to highlight the **Picture Scroll** field.
- 5 Press **◀** or **▶** to scroll the picture up and down as needed, from -10 to +20.



- 6 To save the new settings, highlight **Done** and press **ENTER**. To revert to the factory defaults, highlight **Reset** and press **ENTER**.

Using the auto aspect ratio feature

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

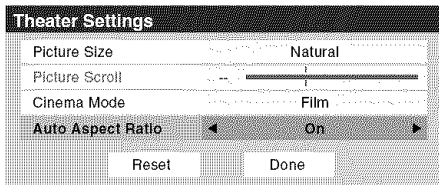
- A 480i signal from the **VIDEO 1**, **VIDEO 2**, **ColorStream HD-1**, or **ColorStream HD-2** input.
- A 1080i, 480i, 480p, or 720p signal from the **HDMI** input.

| Aspect ratio of signal source | Automatic aspect size (automatically selected when Auto Aspect is On) |
|--|---|
| 4:3 normal | Natural (with sidebars) |
| 4:3 letter box | TheaterWide 2 |
| 16:9 full | Full |
| Not defined (no ID-1 data or HDMI aspect data) | The current picture size you set under "Selecting the picture size on page 26." |

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 **ENTER**.
- 3 In the **Auto Aspect Ratio** field, select **On**.



- 4 To save the new settings, highlight **Done** and press **ENTER**. To revert to the factory defaults, highlight **Reset** and press **ENTER**.

To turn off the auto aspect ratio feature:

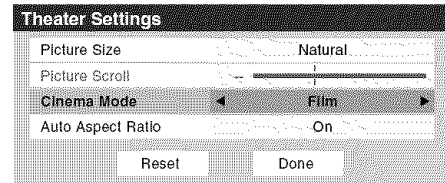
Select **Off** in step 3 above.

Selecting the cinema mode (480i signals only)

When you view a DVD (480i signal; 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 **ENTER**.
- 3 In the **Cinema Mode** field, select **Film**.



- 4 To save the new settings, highlight **Done** and press **ENTER**. To revert to the factory defaults, highlight **Reset** and press **ENTER**.

To set the Cinema Mode to Video:

Select **Video** in step 3 above.

Adjusting the picture

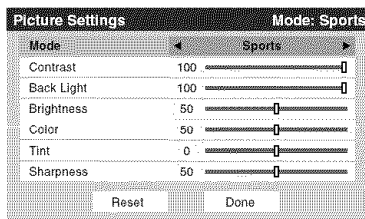
Selecting the picture mode

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

| Mode | Picture Quality |
|------------|--|
| Sports | Bright and dynamic picture (factory setting) |
| Standard | Standard picture settings (factory setting) |
| Movie | Lower contrast for darkened room (factory setting) |
| Preference | Your personal preferences |

To select the picture mode:

- 1 Press **MENU** and open the **Video** menu.
- 2 Highlight **Picture Settings** and press **ENTER**.
- 3 In the **Mode** field, select the picture mode you prefer.



- 4 To save the new settings, highlight **Done** and press **ENTER**. To revert to the factory defaults, highlight **Reset** and press **ENTER**.

Note:

- The picture mode you select affects the current input only. You can select a different picture mode for each input.
- If you select one of the factory-set picture modes (**Sports**, **Standard**, or **Movie**) and then change a picture quality setting (for example, increase the contrast or change the color temperature), the picture mode automatically changes to **Preference** in the **Picture Settings** menu.

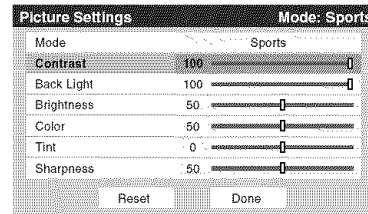
Adjusting the picture quality

You can adjust the picture quality (contrast, back light, brightness, color, tint, and sharpness) to your personal preferences.

| Selection | Pressing ◀ | Pressing ▶ |
|------------|------------|------------|
| Contrast | lower | higher |
| Back Light | darker | lighter |
| Brightness | darker | lighter |
| Color | paler | deeper |
| Tint | reddish | greenish |
| Sharpness | softer | sharper |

To adjust the picture quality:

- 1 Press **MENU** and open the **Video** menu.
- 2 Highlight **Picture Settings** and press **ENTER**.
- 3 Press **▲** or **▼** to select the picture quality you want to adjust (**Contrast**, **Back Light**, **Brightness**, **Color**, **Tint**, or **Sharpness**), and then press **◀** or **▶** to adjust the setting, as described in the table above.



- 4 To save the new settings, highlight **Done** and press **ENTER**. To revert to the factory defaults, highlight **Reset** and press **ENTER**.

The picture qualities you adjusted are automatically saved in the **Preference** mode (see “Selecting the picture mode,” above left).

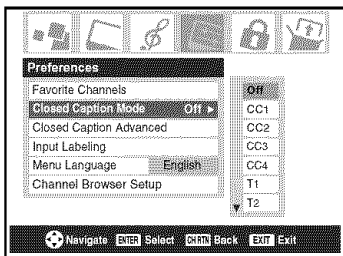
Using the closed caption mode

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 **MENU** and open the **Preferences** menu.
- 2 Highlight **Closed Caption Mode** and press **▶**.
- 3 Press **▲** or **▼** to select the desired closed caption mode and press **ENTER**.

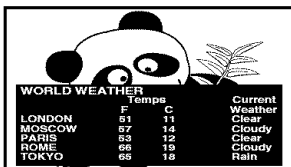


- **To view captions:**
Highlight **CC1**, **CC2**, **CC3**, or **CC4**. (**CC1** displays translation of the primary language in your area.)



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 Closed Caption Mode to **Off**.

- **To turn off the Closed Caption mode:**
Select **Off** in step 3 above.

Note: A closed caption signal may not display in the following situations:

- When a videotape has been dubbed
- When the signal reception is weak
- When the signal reception is non-standard

Closed Caption Advanced

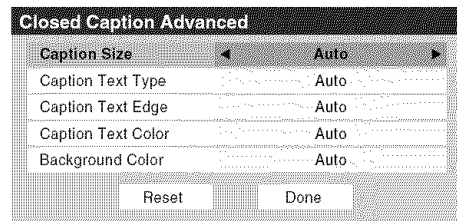
You can customize the closed caption display characteristics by changing the background color, text size, type, edge and color.

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 **MENU** and open the **Preferences** menu.
- 2 Highlight **Closed Caption Advanced** and press **ENTER**.
- 3 Press **▲** or **▼** to highlight the characteristic you want to change, and then press **◀** or **▶** to select the format for that characteristic.



- 4 To save the new settings, highlight **Done** and press **ENTER**. To revert to the factory defaults, highlight **Reset** and press **ENTER**.

| | |
|--------------------|--|
| Caption Size | Auto, Small, Standard, Large |
| Caption Text Type | Auto, Default, Mono w. Serif, Prop. w. Serif, Mono w/o Serif, Prop. w/o Serif, Casual, Cursive, Small Capitals |
| Caption Text Edge | Auto, None, Raised, Depressed, Uniform, Left Drop Shadow, Right Drop shadow |
| Caption Text Color | Auto, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan |
| Background Color | Auto, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan |

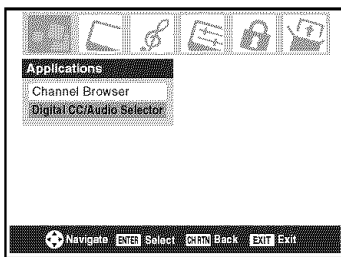
Digital closed captions

You can use the **Digital CC/Audio Selector** to select digital closed caption services (if available), which will temporarily override closed captions for digital channels only.

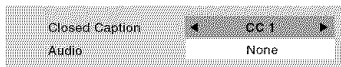
When such services are not available, the **Digital CC/Audio Selector** presents a default list of services. If the selected service is not available, the next best service will be used instead.

To select digital closed captions:

- 1 Press **MENU** and open the **Applications** menu.
- 2 Highlight **Digital CC/Audio Selector** and press **ENTER**.



- 3 Press **▲** or **▼** to select **Closed Caption**, and then press **◀** or **▶** to select the desired service.

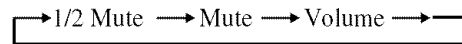


- 4 Press **EXIT**.

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:



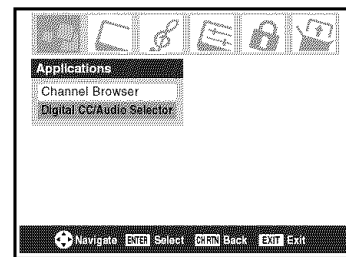
If the closed caption mode is set to **Off** when you select “MUTE” mode, the closed caption feature is automatically activated. To mute the audio without automatically activating the closed caption feature, use **VOLUME** to set the volume to 0. See “Using the closed caption mode” (page 30) for more 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,” page 32).

To use the digital audio selector:

- 1 Press **MENU** and open the **Applications** menu.
- 2 Highlight **Digital CC/Audio Selector** and press **ENTER**.



- 3 Press **▲** or **▼** to select **Audio**, and then press **◀** or **▶** to select the desired service.



- 4 Press **EXIT**.

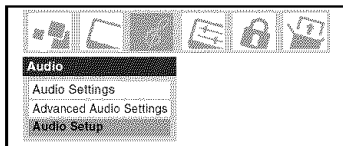
Selecting stereo/SAP broadcasts

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).

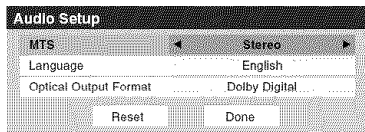
The MTS feature is not available when the TV is in VIDEO mode. When the TV receives a stereo or SAP broadcast, the word "STEREO" or "SAP" appears on-screen when **RECALL** is pressed.

To listen to stereo sound:

- 1 Press **MENU** and open the **Audio** menu.
- 2 Highlight **Audio Setup** and press **ENTER**.



- 3 In the **MTS** field, select **Stereo**.



- 4 To save the new settings, highlight **Done** and press **ENTER**. To reset the settings to the factory defaults, highlight **Reset** and press **ENTER**.

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:

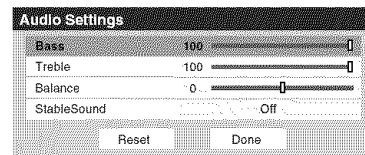
- A second audio program (SAP) can be heard only on those TV stations that offer it. For example, a station might broadcast another language as a second audio program. If you have SAP on, you will see the current program on the screen but hear the other language instead of the program's normal audio.
- 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 **ENTER**.
- 3 Press **▼** or **▲** to highlight the item you want to adjust (**Bass**, **Treble**, or **Balance**).



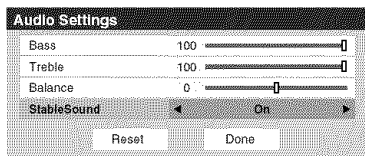
- 4 Press **◀** or **▶** to adjust the level.
 - **◀** makes the bass or treble weaker or increases the balance in the left channel (depending on the item selected).
 - **▶** makes the bass or treble stronger or increases the balance in the right channel (depending on the item selected).
- 5 To save the new settings, highlight **Done** and press **ENTER**. To reset the settings to the factory defaults, highlight **Reset** and press **ENTER**.

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 **MENU** and open the **Audio** menu.
- 2 Highlight **Audio Settings** and press **ENTER**.
- 3 In the **StableSound** field, select **On**.



- 4 To save the new settings, highlight **Done** and press **ENTER**. To revert to the factory defaults, highlight **Reset** and press **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:

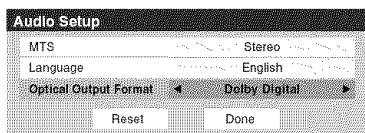
Select **Off** in step 3 above.

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” in the *Installation Guide*).

To select the optical audio output format:

- 1 Press **MENU** and open the **Audio** menu.
- 2 Highlight **Audio Setup** and press **ENTER**.
- 3 In the **Optical Output Format** field, select either **Dolby Digital** or **PCM**, depending on your device.



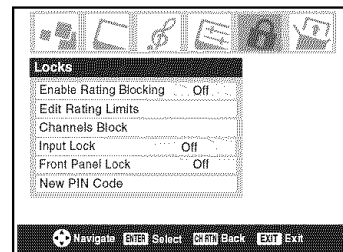
- 4 To save the new settings, highlight **Done** and press **ENTER**. To revert to the factory defaults, highlight **Reset** and press **ENTER**.

Using the Locks menu

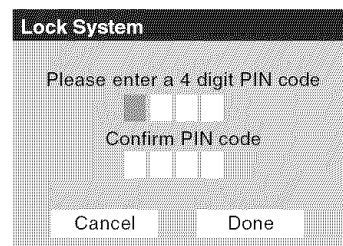
The Locks menu includes the Enable Rating Blocking, Edit Rating Limits, Channels Block, Input Lock, Front (control) Panel Lock, and New PIN Code features. You can use these features after entering the correct PIN code.

Entering the PIN code

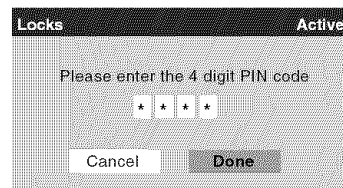
- 1 Press **MENU** and highlight the **Locks** menu icon.



- 2 Press **▼**, which displays the PIN code entry screen.
 - The **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 **ENTER**.



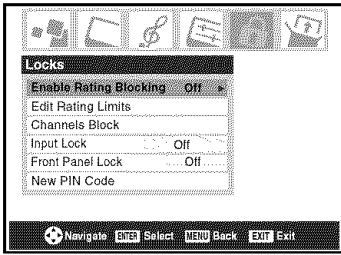
- The **Locks/Active** screen (below) appears if the PIN code is already stored. Use the Number buttons to enter your four-digit code and press **ENTER**.



If the wrong PIN code is entered, the message “Incorrect PIN code, please try again!” appears. Highlight **Retry** and press **ENTER**. Enter the code again and press **ENTER**.

(continued)

When the correct PIN code is entered, the **Locks** menu opens.

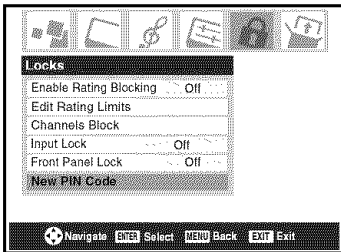


If you cannot remember your PIN code

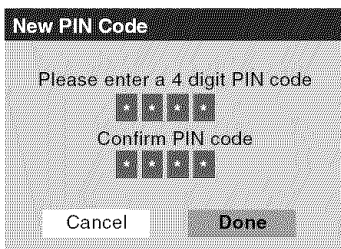
While the PIN code entering screen is displayed, press **RECALL** four times within five seconds. The PIN code will be cleared and you can enter a new PIN code.

Changing your PIN code

- 1 Press **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 **ENTER**.
- 4 Press **▼** to highlight **New PIN Code** and press **ENTER**.



- 5 Press the Number buttons to enter a new four-digit code. Reenter the PIN code to confirm it.
- 6 Press **ENTER**. The new PIN code is now active.



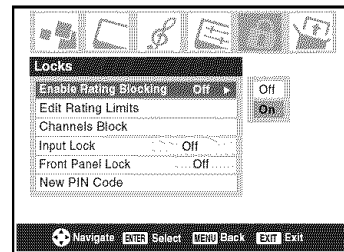
Blocking TV programs and movies by rating (V-Chip)

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.)

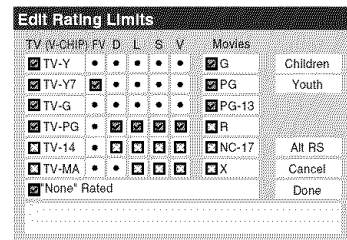
Note: Rating blocking is a function of the V-Chip feature in this TV, which supports the U.S. V-Chip system only.

To block and unblock TV programs and movies:

- 1 Press **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 **ENTER**.
- 4 Press **▼** to highlight **Enable Rating Blocking**.
- 5 Press **▶** and **▼** to select **On**, and then press **ENTER**.



- 6 Press **▼** to highlight **Edit Rating Limits** and press **ENTER**. The **Edit Rating Limits** screen (below) appears.
- 7 Press **▲▼◀▶** and then press **ENTER** 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 **Done** and press **ENTER**.

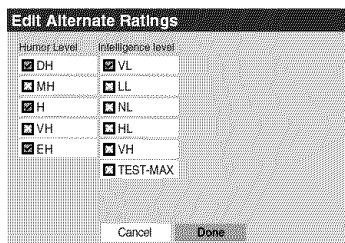


Blocking TV programs and movies by additional ratings

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

To download the additional rating system (if available):

- Repeat steps 1-6 under "To block and unblock TV programs and movies" on the previous page.
Note: The currently tuned station must be receiving a digital signal before an additional rating system can be downloaded.
- Highlight **Alt RS** and press **ENTER**. The **Edit Alternate Ratings** screen will appear.
Note:
 - The **Alt RS** button will only be available if an additional rating system is currently available.
 - Some period of time may be required to download the additional rating system.
 - The information displayed in the **Alternate Ratings** screen will depend on the configuration of the additional rating system available at the time of download.
- Press **▲▼◀▶** and then press **ENTER** to select the level of blocking you prefer. A box with an "X" is a rating that will be blocked.
- When you are finished selecting the ratings you want to block, highlight **Done** and press **ENTER**.
- In the **Edit Rating Limits** screen, highlight **Done** and press **ENTER**.

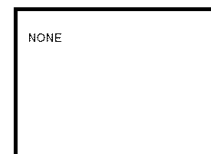
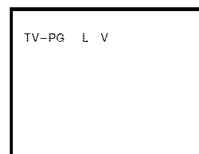


- Note:**
- The additional rating system can only be downloaded one time. You will not be able to download any updates to the rating system should such updates become available.
 - The additional rating system is not designed, transmitted, or controlled by the TV or Toshiba, nor is the availability of an additional rating system determined or controlled by Toshiba. Similarly, the rating of programs in an additional rating system is not determined, transmitted, or controlled by the TV or Toshiba.
 - The additional rating system is an evolving technology; therefore, availability, content, and format may vary.

| Independent rating system for broadcasters | |
|--|--|
| Ratings | Description and Content themes |
| TV-MA | Mature Audience Only (This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.) L) Crude or indecent language S) Explicit sexual activity V) Graphic violence |
| TV-14 | Parents Strongly Cautioned (This program contains some material that many parents would find unsuitable for children under 14 years of age.) D) Intensely suggestive dialog L) Strong, coarse language S) Intense sexual situations V) Intense violence |
| TV-PG | Parental Guidance Suggested (This program contains material parents may find unsuitable for younger children.) D) Some suggestive dialog L) Infrequent coarse language S) Some sexual situations V) Moderate violence |
| TV-G | General Audience (Most parents would find this program suitable for all ages.) |
| TV-Y7, TV-Y7FV | Directed to Older Children (This program is designed for children age 7 and above. Note: Programs in which fantasy violence may be more intense or more combative than other programs in this category are designated TV-Y7FV.) |
| TV-Y | All Children (This program is designed to be appropriate for all children.) |

| Independent rating system for movies | |
|--------------------------------------|---|
| Ratings | Description and Content themes |
| X | X-rated (For adults only) |
| NC-17 | Not intended for anyone 17 and under |
| R | Restricted (Under 17 requires accompanying parent or adult) |
| PG-13 | Parents Strongly Cautioned (Some material may be inappropriate for children under 13) |
| PG | Parental Guidance Suggested (Some material may not be suitable for children) |
| G | General Audience (Appropriate for all ages) |

- Note:**
- If you place an "X" in the box next to "**None** Rated," programs rated "**None**" will be blocked; however, programs that do not provide any rating information will not be blocked.
 - To display the rating of the program you are watching, press **RECALL** on the remote control. If it is rated "None," the word "**NONE**" appears in the **RECALL** screen (as shown below right). If rating information is not provided, no rating will appear in the **RECALL** screen.

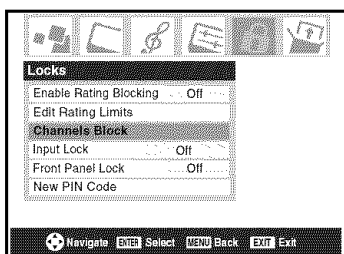


Blocking channels

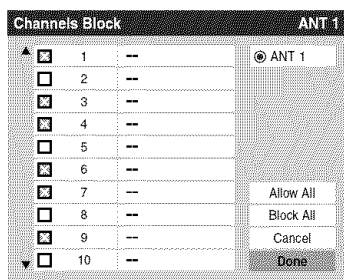
With the Channels Block feature, you can block specific channels. You will not be able to tune blocked channels unless you unblock them.

To block channels:

- 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 **ENTER** (see page 33).
- 4 Press **▼** to highlight **Channels Block** and then press **ENTER**.



- 5 Using **▲▼◀▶**, select the input for which you want to change the rating limits (**ANT1**) and press **ENTER**.
A list of the channels available for that input will be displayed along with the call letters for each channel, if available.
- 6 Press **▲▼** to highlight the channel you want to block, and press **ENTER**, which puts an "X" in the box next to that channel.



- 7 Repeat step 6 for other channels you want to block.
- 8 Highlight **Done** and press **ENTER**.

To unblock individual channels:

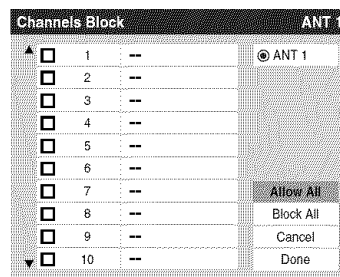
In step 6 above, press **▲▼** to highlight the channel you want to unblock, and then press **ENTER** to remove the "X" from the box, highlight **Done**, and then press **ENTER**.

To block all channels at once:

Highlight **Block All** in step 6 at left, and then highlight **Done**, and press **ENTER**.

To unblock all locked channels at once:

Highlight **Allow All** in step 6 at left, and then highlight **Done** and press **ENTER**.



Unlocking programs temporarily

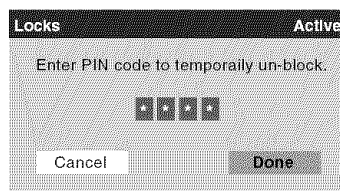
If you try to tune the TV to a program that exceeds the rating limits you set, the TV will enter program lock mode and the following message will appear on-screen:

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 **ENTER**. 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**, and **PC**) and channels 3 and 4. You will not be able to view the input sources or channels until you unlock the inputs.

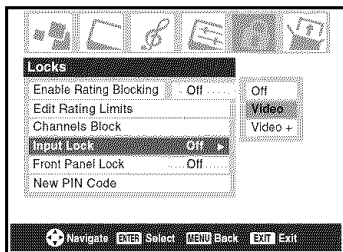
To lock/unlock the video inputs:

- 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 **ENTER**.
- 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, and PC.

Video+: Locks VIDEO 1, VIDEO 2, ColorStream HD1/HD2, HDMI, PC, and channels 3 and 4.

- Select **Video+** if you play video tapes via an ANT input.



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

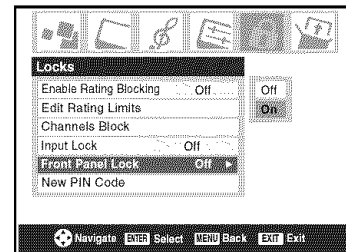
- 6 Press **ENTER**.

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 **ENTER**.
- 4 Press **▼** to highlight **Front Panel Lock**.
- 5 Press **▶** and **◀** or **▶** to highlight **On** and press **ENTER**. When the control panel is locked and a button on the control panel except **POWER** button 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 on-screen.

Using the PC setting feature

You can view the image from a PC on the TV screen. The PC must be connected to the TV's PC IN terminals (see *Installation Guide*).

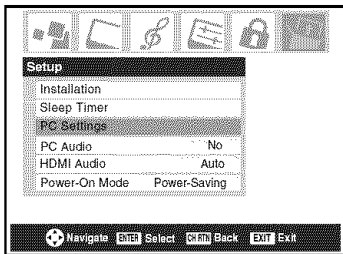
You can use the PC Settings feature to adjust the picture's horizontal position/width, vertical position/height, clock phase, and sampling clock.

If the edges of the picture are cut off, readjust the **Horizontal Position/Width** and **Vertical Position/Height**. If the picture is affected by interference, readjust the **Clock Phase** and **Sampling Clock**.

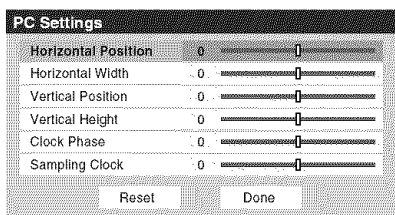
To adjust the PC settings:

- 1 Repeatedly press **INPUT** to select PC input mode (see "Selecting the video input source to view" page 22).
- 2 Press **MENU** and open the **Setup** menu.
- 3 Highlight **PC Settings** and press **ENTER**.

Note: If a PC is not connected, this feature will be grayed out in the **Setup** menu.



- 4 Press **▲** or **▼** to highlight the item you want to adjust.
- 5 Press **◀** or **▶** to make the appropriate adjustments.



Note: The screen is disrupted momentarily when adjusting the PC settings. This is not a sign of malfunction.

- **Horizontal Position:**
Moves the picture left/right.
The adjustment range is within ± 5 from center.*
- **Vertical Position:**
Moves the picture up/down.
The adjustment range is within ± 5 from center.*
- **Horizontal Width:**
Adjusts the width of the picture.
The adjustment range is within ± 5 from center.*

- **Vertical Height:**
Adjusts the height of the picture.
The adjustment range is within ± 5 from center.*
- **Clock Phase:**
Helps to reduce noise and sharpen the picture.
The adjustment range is within ± 2 from center.*
- **Sampling Clock:**
Helps to reduce noise and minimize periodic vertical stripes on the screen.
The adjustment range is within ± 15 from center.*

* The range of adjustment may vary slightly.

Setting the PC Audio mode

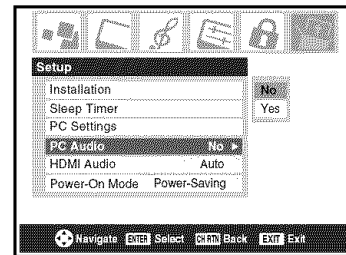
This function allows you to output the sound from your PC (if connected) or mute the sound from your PC and output the sound from your HDMI (DVI) connection. (see *Installation Guide*)

To set the PC Audio:

- 1 Press **MENU** and open the **Setup** menu.
- 2 Highlight **PC Audio**.
- 3 Press **▶** and then press **▼** to select **No** or **Yes**.

Yes: Outputs the sound from your PC.

No: Mutes the sound from your PC, and outputs the sound from the HDMI connection.



Note: Because the PC IN and HDMI (DVI) IN inputs share the same set of analog audio inputs, the **PC Audio** menu setting influences the **HDMI Audio** menu setting. If **PC Audio** is set to "No," the **HDMI Audio** setting changes to "Auto." If **PC Audio** is set to "Yes," the **HDMI Audio** setting is set to "Digital" and is grayed out in the menu. (Also see item 3 on page 6 and "Setting the HDMI™ audio mode" on page 19.)

Setting the sleep timer

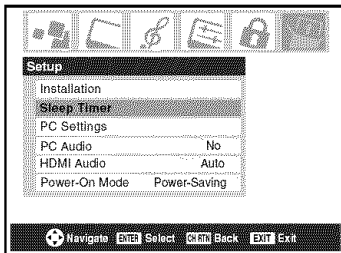
You can set the sleep timer to turn off the TV after a set length of time (maximum of 180 minutes).

To set the sleep timer using the remote control:

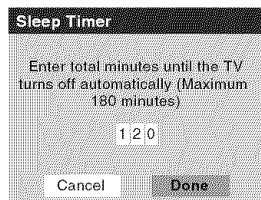
Press **SLEEP** on the remote control to set the length of time until the TV turns off. Repeatedly press **SLEEP** to increase the time in 10-minute increments, or press **▲** or **▼** to increase or decrease the time in 10-minute increments, to a maximum of 180 minutes.

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

- 1 Press **MENU** and open the **Setup** menu.
- 2 Highlight **Sleep Timer** and press **ENTER**.



- 3 Press the Number buttons to enter the length of time in 10-minute increments.

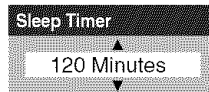


- 4 Highlight **Done** and press **ENTER**.

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

To display the remaining sleep time:

Press **SLEEP**.



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

To cancel the sleep timer:

Press **SLEEP** until it is set to 0 minute.

Displaying TV setting information on-screen using RECALL

To display TV setting information on-screen:

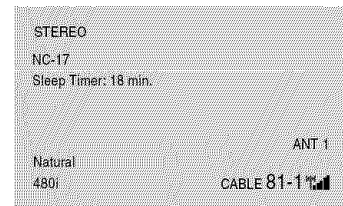
Press **RECALL** on the remote control.

The following information will display on-screen (if applicable):

- Current input (**ANT 1**, **VIDEO 1**, etc.)
- If **ANT 1** is the current input, either “CABLE” (for cable TV) OR “TV” (for over-the-air broadcasts).
- Channel number (if in **ANT 1** mode)
- Digital signal strength indicator (bar graph in lower right corner of screen; for ATSC signal only)

Note: The signal strength indicator will react to fading and increasing signals.

- Remaining time on sleep timer (if set)
- Stereo or SAP audio status
- V-Chip rating status
- Picture size
- Video resolution



Sample RECALL screen

To close the RECALL screen:

Press **RECALL** again.

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 1** 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.*

Using the advanced picture settings features

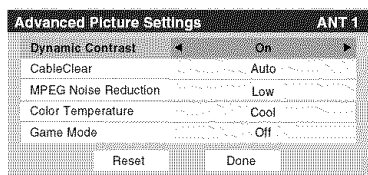
Using dynamic contrast

When dynamic contrast is set to **On**, the TV will detect changes in the picture quality that affect the appearance of your contrast settings and then automatically adjust the video.

When dynamic contrast is set to **Off**, the settings selected in the **Contrast** field in the **Picture Settings** menu will be used (see “Adjusting the picture quality” on page 29.).

To select dynamic contrast preferences:

- 1 Press **MENU** and open the **Video** menu.
- 2 Highlight **Advanced Picture Settings** and press **ENTER**.
- 3 In the **Dynamic Contrast** field, select either **On** or **Off**.



- 4 To save the new settings, highlight **Done** and press **ENTER**. To revert to the factory defaults, highlight **Reset** and press **ENTER**.

Note: If you select the **Movie** picture mode and then set the dynamic contrast to **On**, the picture mode automatically changes to **Preference** in the **Picture Settings** menu (page 29).

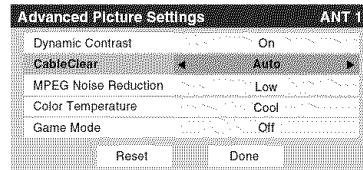
Using CableClear® digital noise reduction

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 **MENU** and open the **Video** menu.
- 2 Highlight **Advanced Picture Settings** and press **ENTER**.

- 3 In the **CableClear** field, select your desired setting.



Note:

- If the current input is **ANT 1**, **VIDEO 1**, or **VIDEO 2**, the menu will display the text “**CableClear**.” The available selections are **Auto**, **Low**, **Middle**, **High**, and **Off**.
- If the current input is **ColorStream HD1**, **ColorStream HD2**, or **HDMI**, the menu will display the text “**DNR**.” The available selections are **Auto**, **Low**, **Middle**, **High** and **Off**. **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.

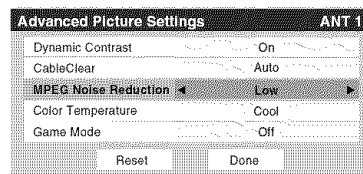
- 4 To save the new settings, highlight **Done** and press **ENTER**. To revert to the factory defaults, highlight **Reset** and press **ENTER**.

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 **MENU** and open the **Video** menu.
- 2 Highlight **Advanced Picture Settings** and press **ENTER**.
- 3 Press **▲** or **▼** to highlight the **MPEG Noise Reduction** field, and then press **◀** or **▶** to select either **Off**, **Low**, **Middle**, or **High**.



- 4 To save the new settings, highlight **Done** and press **ENTER**. To revert to the factory defaults, highlight **Reset** and press **ENTER**.

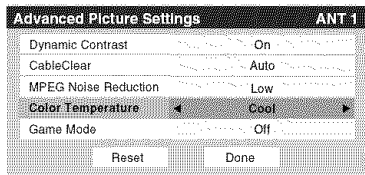
Selecting the color temperature

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

| Mode | Picture Quality |
|--------|-----------------|
| Cool | blueish |
| Medium | neutral |
| Warm | reddish |

To select the color temperature:

- 1 Press **MENU** and open the **Video** menu.
- 2 Highlight **Advanced Picture Settings** and press **ENTER**.
- 3 In the **Color Temperature** field, select the mode you prefer (**Cool**, **Medium**, or **Warm**).



- 4 To save the new settings, highlight **Done** and press **ENTER**. To revert to the factory defaults, highlight **Reset** and press **ENTER**.

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** in the **Picture Settings** menu.

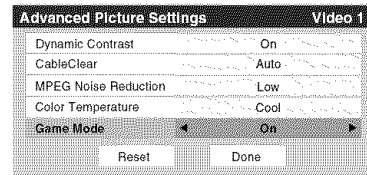
Using the Game Mode feature

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).

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

To turn on Game Mode:

- 1 Press **MENU** and open the **Video** menu.
- 2 Highlight **Advanced Picture Settings** and press **ENTER**.
- 3 Press **▲** or **▼** to highlight **Game Mode**, and then press **◀** or **▶** to select **On**.



To turn off Game Mode:

Select **Off** in step 3 above, change the video input, or turn off the TV.

Note: You can change the video input in any of the following ways:

- Pressing **INPUT** on the remote control (see page 22);
- Changing the channel using the Numbers or **CH** / **CH**, **CH RTN**, **BACK** / **NEXT**, or **FAV▲** / **FAV▼**.

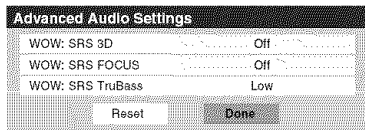
Using the advanced audio settings features

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 in **STEREO** mode (🔊 “Selecting stereo/SAP broadcasts” page 32).
- 2 Press **MENU** and open the **Audio** menu.
- 3 Highlight **Advanced Audio Settings** and press **ENTER**.
- 4 Press **▼** or **▲** to highlight the WOW feature you want to adjust, and then press **◀** or **▶** to adjust the item.




- **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 **ENTER**. To revert to the factory defaults, highlight **Reset** and press **ENTER**.

WOW, SRS and  symbol are trademarks of SRS Labs, Inc. WOW technology is incorporated under license from SRS Labs, Inc.

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 30).


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 20).

TV will not turn on

- Make sure the power cord is plugged in, and then press .
- 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 (☞ *Installation Guide*).
- Press **INPUT** on the remote control or TV and select a valid video input source (☞ page 22). 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 the *Installation Guide*.
- 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 29).
- If you are using a VCR, make sure  on the remote control is set correctly (☞ page 9).
- If you have two VCRs connected to your TV, make sure you have not connected the same VCR to the TV's output and input connections at the same time (☞ *Installation Guide*).
- Do not connect both a standard video cable and an S-video cable to the **VIDEO 1** input at the same time (☞ *Installation Guide*).

Noisy picture

- If you are watching an untuned analog channel (off-air broadcast or Cable TV), set the **CableClear®/DNR** feature to **AUTO** to reduce visible interference in the TV picture (☞ page 41).

Video Input Selection problems

- If the **Input Selection** window does not appear when you press **INPUT** on the remote control or TV, press **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**, or **ColorStream®**, or from channels 3 or 4, make sure the **Input Lock** is set to **Off** (☞ page 37).

Poor color or no color

- The station may have broadcast difficulties. Try another channel.
- Adjust the **Tint** and/or **Color** (☞ page 29).
- When the **ColorStream®** signal source is active, the **VIDEO OUT** terminal does not output video. To receive video from the **VIDEO OUT** terminal, a standard video or **S-video IN** connection must be used instead of the **ColorStream®** connections.

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 (☞ *Installation Guide*).
- 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 32).
- 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 32).
- 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 32).

Remote control problems

- Make sure the remote control is set to the correct device mode (☞ page 9).
- Remove all obstructions between the remote control and the TV.
- The remote control batteries may be dead. Replace the batteries (☞ page 7).
- 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 9–13).
- If the TV still does not act as expected, use the Restore Factory Defaults procedure (☞ page 20).

Channel tuning problems

- Make sure the remote control is set to the correct device mode (☞ page 8).
- The channel may have been erased from the channel memory by the **Channel Add/Delete** feature. Add the channel to the channel memory (☞ page 17).
- The channel may be blocked by the **Channels Block** feature. Unblock the channel (☞ page 36).
- If you are unable to tune digital channels, check the antenna configuration (☞ page 16). If you are still unable to tune digital channels, clear all channels from the channel list (☞ page 18) and reprogram channels into the channel memory (☞ page 17). If you are still unable to tune digital channels, use the Restore Factory Defaults procedure (☞ page 20). Also see “TV stops responding to controls” and “Other problems” (☞ page 44).

Closed caption problems

- If the program or video you selected is not closed-captioned, no captions will display on-screen (☞ page 30).
- If text is not available, a black rectangle may appear on-screen. If this happens, turn off the closed caption feature (☞ page 30).
- 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 30).

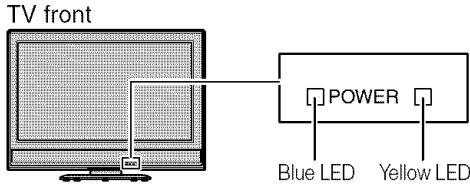
Rating blocking (V-Chip) problems

- If you forget your PIN code: While the PIN code entering screen is displayed, press **RECALL** four times within 5 seconds. The PIN code you previously stored will be cleared (☞ page 33).
- The V-Chip feature is available for the U.S. V-Chip system only (☞ page 34).

LED indications

The blue 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.



| LED Indication | Condition | Solution |
|--------------------------------------|---|---|
| 1) Blue is ON (solid). | The TV is operating properly. | – |
| 2) Yellow is ON (solid). | In Power-Saving mode (standby with Power-On Mode Power-Saving). | See “Selecting the Power-On Mode” (page 21). |
| 3) Yellow blinks three times. | The TV is rebooting. | Wait several seconds until the yellow LED stops blinking. |
| 4) Blue blinks slowly. | Abnormal operation of BUS line. | Turn OFF the TV and unplug the power cord. Plug the power cord in again and turn ON the TV. |
| 5) Blue blinks quickly. | Power Protect Detection. | |

If, after trying the solutions, the problem still exists:

- In the U.S., call TACP Consumer Solutions at 1-800-631-3811.
- 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.”

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 (J through W)
Hyper band (AA through ZZ, AAA, BBB)
Ultra band (65 through 94, 100 through 135)

Power Source

120 V AC, 60 Hz

Power Consumption

26HL66: 90 W (average)
0.5 W in standby mode
32HL66: 115 W (average)
0.5 W in standby mode
37HL66: 123 W (average)
0.5 W in standby mode

Audio Power

10 W + 10 W

Speaker Type

Two 2-3/8 × 4-3/4 inches (6 × 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: 1V(p-p), 75 ohm
PR: 0.7 V(p-p), 75 ohm
PB: 0.7 V(p-p), 75 ohm
Suggested formats: 1080i, 480p, 480i, 720p
AUDIO: 150 mV(rms), 22 k ohm or greater

HDMI™ INPUT:

HDMI compliant (type A connector)
HDCP compliant
E-EDID* compliant
Suggested formats: 1080i, 480p, 480i, 720p
HDMI Audio: 2-channel L-PCM; 32/44.1/48 kHz sampling frequency; 16/20/24 bits per sample

VIDEO/AUDIO OUTPUT (also for recording):

VIDEO: 1 V(p-p), 75 ohm, negative sync.
AUDIO: 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

26HL66: Width: 26 inches (660 mm)
Height: 21-1/16 inches (535 mm)
Depth: 10-25/32 inches (274 mm)
32HL66: Width: 31-1/4 inches (794 mm)
Height: 24-1/16 inches (611 mm)
Depth: 11-13/16 inches (300 mm)
37HL66: Width: 38-7/16 inches (916 mm)
Height: 27-3/32 inches (688 mm)
Depth: 11-13/16 inches (300 mm)

Weight

26HL66: 31.3 lbs (14.2 kg)
32HL66: 42.3 lbs (19.2 kg)
37HL66: 54.7 lbs (24.8 kg)

Operating conditions

Temperature: 32°F - 95°F (0°C - 35°C)
Humidity: 20 - 80% (no moisture condensation)

Supplied Accessories

- Remote control with two size “AAA” batteries
- Installation Guide
- Operating Guide (this book)
- Lead clip
Use this clip to attach the TV to a wall, pillar, or other immovable structure. See item 19 on page 3 of the separate *Installation Guide*.

* E-EDID = Enhanced-Extended Display Identification

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/service 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 under 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 of Canada Limited ("TCL") makes the following limited warranties to original consumers in Canada.

LCD TVs PURCHASED IN CANADA AND USED ANYWHERE OUTSIDE OF CANADA, INCLUDING, WITHOUT LIMITATION, THE U.S.A. AND MEXICO, ARE NOT COVERED BY THESE WARRANTIES.

LCD TVs PURCHASED ANYWHERE OUTSIDE OF CANADA, INCLUDING, WITHOUT LIMITATION, THE U.S.A. AND MEXICO, AND USED IN CANADA, ARE NOT COVERED BY THESE WARRANTIES.

THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS LCD TV AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

Limited One (1) Year Warranty on Parts and Labor

TCL warrants this LCD TV 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, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOR.

a) FOR LCD TVs UNDER 37":

To receive warranty service, you must return the LCD TV to a TCL Authorized Service Depot.

b) FOR LCD TVs 37" AND LARGER:

During this period, TCL Authorized Service Depot 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 TCL Authorized Service Depot for repair and returned to your home at no cost to you. **IN-HOME SERVICE ONLY APPLIES WITHIN 100 KILOMETERS OF AN AUTHORIZED TCL SERVICE DEPOT.**

Rental Units

The warranty for 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.

Commercial Units

LCD TVs sold and used for commercial purposes have a limited ninety (90) day warranty for all parts and labor.

Owner's Manual and Product Registration

Read this owner's manual thoroughly before operating this LCD TV. If you purchased your LCD TV in Canada, register it online at www.toshiba.ca as soon as possible. By registering your product you will enable TCL 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.

Failure to register online does not diminish your warranty rights.

Your Responsibility

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 LCD TV must be made by an Authorized TCL Service Depot.
- (3) The warranties from TCL are effective only if the LCD TV is purchased in Canada from an authorized TCL dealer and operated in Canada.
- (4) Labor charges for installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by these warranties. Reception problems caused by inadequate antenna systems are your responsibility.

- (5) Warranties extend only to defects in materials or workmanship as limited above, and do not extend to any LCD TV or parts that have been lost or discarded by you or to damage to the LCD TV 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 TCL; use or malfunction through simultaneous use of this product 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 Services

If, after following all of the operating instructions in this manual and checking the "Troubleshooting" section, you find that service is needed:

- (1) To find the nearest TCL Authorized Service Depot, visit TCL's web site at www.toshiba.ca.
- (2) Present your bill of sale or other proof of purchase to the Authorized Service Depot.

**For additional information, visit TCL's web site:
www.toshiba.ca**

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