TOSHIBA



Operating Guide

Integrated High Definition DLP[™] Projection Television

50HM66 56HM66

IMPORTANT NOTE

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

Note: If the TV is powered off and then quickly on again when the lamp unit is hot, it may take several minutes for the picture to appear on-screen. This is a property of DLP[™] TV lamp technology and is NOT a sign of malfunction. For details, see "IMPORTANT NOTICE ABOUT HOT LAMP RESTART" on page 2.

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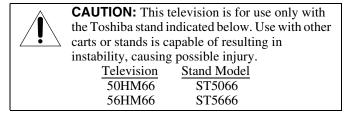
Owner's Record

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:

(YC/N) VX1A00001000



Welcome to Toshiba

Thank you for purchasing this Toshiba TV, one of the most innovative DLP[™] projection TVs on the market. 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.

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

Important notes about your DLP[™] projection TV

- 1) The light source for this TV is a projection lamp unit with a limited service life. When the lamp wears out, the picture may become dark or black or the lamp may fail, at which time you must replace the lamp unit. See "Lamp unit replacement and care" (I pages 47-49).
- 2) When the lamp mode is set to **Low Power**, every time the TV is powered on, the lamp will initially be in High Bright mode but will switch to Low Power mode after a short period of time. You may notice a change in screen brightness when this happens. This is normal and is not a sign of malfunction.

(\square page 42 for details.)

- 3) Every time the TV is powered on, it may take several minutes for the picture to obtain full brightness (INFORTANT NOTICE ABOUT "HOT LAMP RESTART," at right).
- 4) The TV's display is manufactured using an extremely high level of precision technology; however, an occasional pixel (dot of light) may show constantly on the screen. This is a structural property of DLPTM (Digital Light ProcessingTM) technology and is not a sign of malfunction. Such pixels are not visible when the picture is viewed from a normal viewing distance.
- 5) Always sit approximately 10-25 feet away from the TV and as directly in front of it as possible. The picture quality may be affected by your viewing position and length of viewing time. If you sit too closely to the TV for too long, you may suffer from eye fatigue. See item 29 of the "care" information in the separate Installation Guide.
- 6) Depending on the media you are viewing, it is possible, although unlikely, that a limited number of viewers may see a "rainbow effect" on the screen, which can, in rare instances, result in eye fatigue. This is a rare occurrence related to DLP technology and is not a sign of TV malfunction.

7) This TV contains several cooling fans to moderate the herical relation herical temperature. You may be able to hear the



fans for several minutes after the TV is turned off. This is a function of the Quick RestartTM feature and is not a sign of TV malfunction. You can set the Quick RestartTM feature to stop the fans as soon as the TV is powered off. See "Setting the Quick Restart[™] feature" (**I** page 20).

- 8) The yellow and blue LED lights at the bottom center of the TV front indicate your TV's current status. If either light flashes, see "LED indications" (I page 46).
- 9) Every time the TV power cord is plugged 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.

"Voice announce" feature

When certain non-standard conditions occur, the LEDs on the TV will blink and the TV will play a recorded "voice announcement" describing the condition (see the

LED indication table on page 46 for the specific conditions that include a voice announcement). To repeat the voice announcement and hear additional

information, press the MENU button on the TV while the LEDs are blinking.

IMPORTANT NOTICE ABOUT "HOT LAMP RESTART"

When the TV has been powered on long enough for the lamp unit to get hot, it may take several minutes for the picture to appear on-screen in the following situations: • When the Quick Restart[™] feature is set to **OFF** and

- you turn the TV off and then on again within a few minutes: or
- If the TV is on when a short-term power failure, power surge, or other similar power failure occurs, such that the TV loses and regains power within a few minutes.

This is a property of DLP TV lamp technology and is NOT a sign of malfunction.

If this occurs, the yellow LED on the TV front panel will blink (and the blue LED will be lit solid) until the TV is finished restarting the lamp and the normal picture appears. If both LEDs are blinking, you will need to turn the TV off and then on again to restart the lamp.

Trademark Information

- This product incorporates copyright protection technology that is
 protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.
- 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
- CableCARD[™] is a trademark of Cable Television Laboratories, Inc.
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- Digital Light Processing[™], DLP[™] and the DLP[™] medallion are trademarks of Texas Instruments.

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Chapter 1: Introduction



NOTICE OF POSSIBLE TV STAND INSTABILITY DANGER: RISK OF SERIOUS PERSONAL INJURY OR DEATH! Use this TV only with

the TOSHIBA TV stand listed in the "Specifications" section of this manual. Use with other stands may result in instability, causing possible injury or death.

CAUTION: This television is for use only with the Toshiba stand indicated below. Use with other carts or stands is capable of resulting in instability, causing possible injury.

Television	Stand Model
50HM66	ST5066
56HM66	ST5666

Features of your new TV

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

- **Integrated digital tuning (8VSB ATSC and QAM)** eliminates the need for a separate digital converter set-top box (in most cases).
- **Digital CableCARD™ slot** for viewing encrypted digital Cable TV programs (**I**SP *Installation Guide*).
- **Two HDMI™** digital, high-definition multimedia interfaces (ISF Installation Guide).
- **Two sets of ColorStream**[®] **HD** high-resolution component video inputs (ISP Installation Guide).
- SRS WOW[™] (IS page 43), audio technologies.
- Digital Audio Out optical audio connection with Dolby[®] Digital optical output format (n page 34; also see *Installation Guide*).
- **CableClear® DNR** digital picture noise reduction (**I**SP page 41).

"Voice announce" feature

LEDs are blinking.

When certain non-standard conditions occur, the LEDs on the TV will blink and the TV will play a recorded "voice announcement" describing the condition (see the LED indication table on page 46 for the specific conditions that include a voice announcement). To repeat the voice announcement and hear additional information, press the MENU button on the TV while the

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

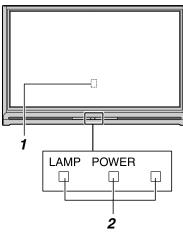
Follow these steps to set up your TV and begin using its many exciting features.

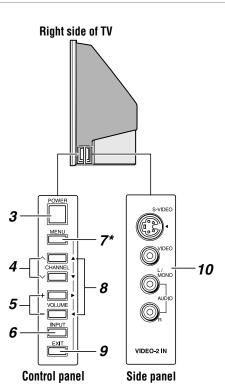
- 1 Carefully read the important safety, installation, care, and service information in the separate *Installation Guide*. Keep this manual for future reference.
- **2** Observe the following when choosing a location for the TV:
 - Read the separate Installation Guide.
 - Read "Important notes about your DLPTM projection TV" (ISP page 2).
 - Place the TV on the applicable optional TV stand listed in the "Specifications" section (if available for this TV model) or on a sturdy, level, stable surface that can safely support the size and weight of the unit.
 - 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 (ISP pages 5-6).
- **5** Connect your other electronic device(s) to the TV (INF Installation Guide).
- **6** Install the batteries in the remote control (\mathbf{x} page 7).
- 7 See "Learning about the remote control" (12 page 8) for an overview of the buttons on the remote control.
- **8** Program the remote control to operate your other device(s) (rew pages 9–13).
- **9** AFTER connecting all cables and devices, plug in the power cords for your TV and other devices.
- **10** After you plug in the TV power cord, the yellow LED (on the TV front) will blink 3 times. Wait several seconds until the yellow LED stops blinking and then press ^{POWER} on the TV or remote control. See "LED indications" (INGR page 46).
- **11** See "Menu layout and navigation" for a quick overview of navigating the TV's menu system (ISP page 14).
- **12** Program channels into the TV's channel memory (ISF page 17).
- **13** For details on using the TV's features, see Chapters 5 and 6.
- **14** For help, refer to the Troubleshooting Guide (IS) Chapter 7).
- **15** For lamp unit replacement instructions, see Chapter 8.
- **16** For technical specifications and warranty information, see Chapter 8.
- **17** Enjoy your new TV!

Chapter 1: Introduction

TV front and side panel controls and connections







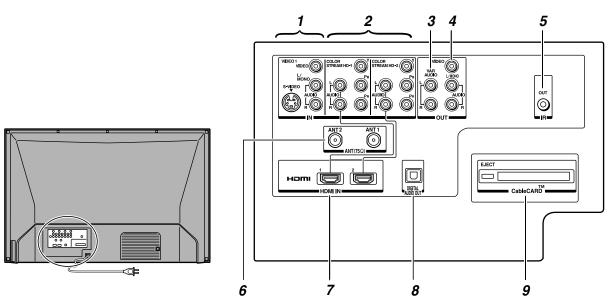
- **1 Remote sensor** (behind the screen) Point the remote control toward this area of the TV screen. See "Remote control effective range" (**I** ≈ page 7).
- 2 Blue, Yellow and Green/Red LEDs See "LED indications" (IS page 46) for additional information.
- 3 POWER Press to turn the TV on and off. If 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;
 Image 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 INPUT Repeatedly press to change the source you are viewing (ANT 1, VIDEO 1, VIDEO 2, ColorStream HD-1, ColorStream HD-2, HDMI 1, HDMI 2, ANT 2).

- *MENU (ENTER) Press to access the menu system
 (I) pages 14–15). When a menu is on-screen, the MENU button on the TV's side control panel functions as the Enter button.
- 8 ARROWS ▲▼◀▶ When a menu is on-screen, these buttons function as up/down/left/right menu navigation buttons.
- **9 EXIT** Press to instantly close an on-screen menu.
- **10** VIDEO-2 IN The side panel A/V connections are referred to as "VIDEO 2" and include standard A/V connections plus optional S-video.

Chapter 1: Introduction

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.

ColorStream® HD-1 and **ColorStream® HD-2 Audio IN** — ColorStream HD-1/2 audio input terminals are shared with HDMI 1/2 analog audio input terminals, and their use can be configured in the **Setup** menu (ISP "Setting the ColorStream HD audio mode" page 20).

- **3** Variable Audio OUT Standard analog audio outputs for connecting an analog amplifier with external speakers.
- **4 A/V OUT** Standard composite video and analog audio outputs for connecting a VCR for editing and dubbing.
- 5 IR OUT For controlling infrared remote-controlled devices through the TV. You can connect up to two devices with an IR blaster cable, and then control the devices using the TV's IR pass-through features.

6 ANT 1 and ANT 2 — Two inputs that support analog (NTSC) and digital (ATSC) off-air antenna signals and analog and digital (QAM) Cable TV signals.

Note: If you have an antenna only, connect it to **ANT 1**. If you have both cable TV and an antenna, connect the cable TV to **ANT 1** and the antenna to **ANT 2**.

- 7 HDMI™ 1 and 2 IN Two High-Definition Multimedia Interface inputs receive digital audio and uncompressed digital video from an HDMI device or uncompressed digital video from a DVI device. Also see item 2.
- 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.
- GableCARD[™] slot For use with a digital security card and digital cable TV service (provided by your local cable operator) to view encrypted digital programming (ISP page 20).

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. CableCARD is a trademark of Cable Television Laboratories, Inc.

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:

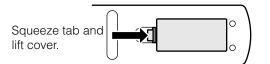
Your TV remote control is preprogrammed to operate most Toshiba devices (1) page 11).

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

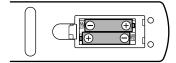
You can program the TV remote control so it will operate the other device ($\mathbf{1} \otimes \mathbf{2} \otimes \mathbf{9} = 13$).

Installing the remote control batteries

1 Remove the battery cover from the back of the remote control.



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.

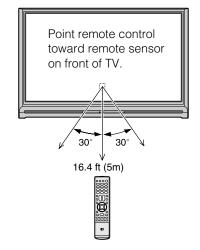
Notes:

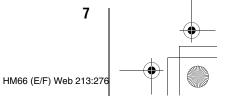
- Be sure to use AAA size batteries.
- Dispose of batteries in a designated disposal area.
- Batteries should always be disposed of with the environment in mind. Always dispose of batteries in accordance with applicable laws and regulations.
- If the remote control does not operate correctly, or if the 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 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

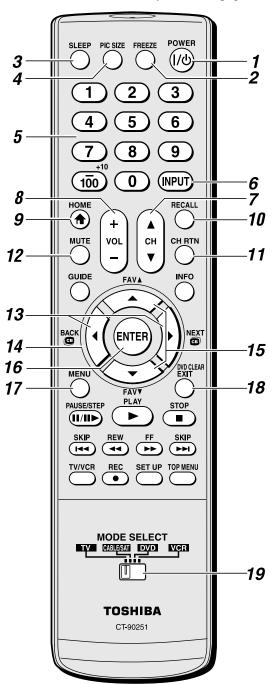
For optimum performance, aim the remote control directly at the TV and make sure there is no obstruction between the remote control and the TV.

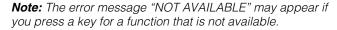




Learning about the remote control

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 (\mathbf{r} page 10).





1 POWER turns the TV on and off. Press ^{POWER} to turn on the TV. The blue LED indicator on the TV front will be illuminated. Press ^{POWER} again to turn off the TV.

Note: The Quick Restart[™] setting will affect the amount of time it takes for the picture to appear when you turn on the TV (**I** page 20).

- **2 FREEZE** freezes the picture. Press again to restore the moving picture.
- **3** SLEEP accesses the sleep timer (reprove page 39).
- 4 PIC SIZE cycles through the five pictures sizes: Natural, TheaterWide 1/2/3, and Full (I page 27).
- 5 Channel Numbers (0-9, -/100) directly tune channels. The "-" button is used to tune digital channels (ISF page 26) or to display the favorite channel list (ISF page 19).
- 6 **INPUT** selects the video input source (r page 23).
- 7 CH ▲▼ cycles through programmed channels when no menu is on-screen (r 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 BrowserTM feature (**I**SP page 26).
- **10 RECALL** displays TV setting information on-screen (INST page 40).
- 11 CH RTN returns to the last viewed channel (reg page 26).
- **12 MUTE** reduces or turns off the sound (pres page 32).
- 13 model A / model A /
- **15 FAV** ▲**V** tunes to the next higher/lower favorite channel (**I** grage 19).
- **16 ENTER** activates highlighted items in the main menu system.
- **17 MENU** accesses the main TV menu system (respages 14 and 15).
- 18 EXIT closes on-screen menus.
- 19 MODE SELECT Switch switches between TV, CABLE/SAT, DVD, and VCR modes (reg page 9). Set to "TV" to control the TV.

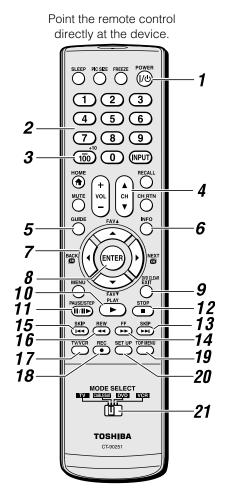
Using the remote control to control your other devices

If you have a non-Toshiba device or a Toshiba device that the remote control is not preprogrammed to operate, you must first program the remote control to recognize the device (if you have not already done so) (1) 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**.
- VCR, set the MODE SELECT Switch to VCR.
- DVD player or HTIB, set the MODE SELECT Switch to **DVD**.

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 [c], [CH] ♥).
- **3** +10 Press to directly access DVD chapters higher than 10.
- 4 CH ▲▼
 ▲ selects the next higher channel;
 ▼ selects the next lower channel (for channels programmed into memory only).
- **5 GUIDE** Displays channel guide.
- 6 INFO Displays TV status information on-screen.
- 7 ▲▼◀▶ Press to navigate DVD menus (may not work on some DVD players).
- **8 ENTER** Required by some satellite receivers and DVD players.
- **9 DVD CLEAR** Press to reset 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 → 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 I 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, press to select TV mode.
- 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

- Notes:
 "---" = key does not send a signal in that remote control mode.
- \leftarrow TV = key will affect the TV, even when the remote control is not in the "TV" device 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
A CB	Menu select/ Channel Browser TM		Menu left		Menu left
► NEXT	Menu select/ Channel Browser TM		Menu right		Menu right
ENTER	Enter		Select Enter		Enter
EXIT/DVD CLEAR	Exit		Exit		DVD Clear
VOL + -	Volume up/down	← TV	← TV	← TV	← TV
СН▲▼	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 control your other devices

Your Toshiba TV remote control is preprogrammed to operate most Toshiba devices. To program your TV remote control to operate a non-Toshiba device (or a Toshiba device that it is not preprogrammed to operate), follow the steps below. For details on using the remote control to operate the device, see page 9.

- **1** In the remote control code table (I 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

Notes:

- 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 co

In some cases you may not be operate your device with the T remote control. Your other devi use a code that is not recognized TV remote control. If this happe the device's remote control.

Cable converter box

ABC 061, 062, 0 084, 087, 0 096,098 Archer 065, 092, 0 064,094 Cableview Century 092 090, 092, 0 Citizen 083, 085, 0 Contec 093,098 Diamond 093 091 Eagle 061.062 GE 069, 070, 0 Gemini 062, 089, 0 General Instruments 093 Hamlin 062, 095, 0 Hitachi 097 Jasco 062,069,0 Jerrold 086, 089, 0 072,096 Magnavox 091, 092, 1 Memorex Multi Canal 090 101 Novavision 081, 083, 0 Panasonic Philco 087 066, 067, 0 Philips 072, 073, 0 091,092 Pioneer 076,077 Proscan 061,062 Radio Shack 092 097 0 064,081 RCA Realistic 065 Recoton 102 077,090 Samsung Scientific Atlanta 063, 078, 0 088,098,1 Sears 095 Signature 062 Signature 2000 096 Sprucer 081,085 Starcom 069, 082, 0 103, 104 Stargate 069, 090 Sylvania 095, 100 TeleView 090 Texscan 100 Tocom 071, 084, 0 U. S. Electronics 087, 096, 0 United Cable 082 Universal 065, 092, 0 102, 103 Wards 096

Satellite receiver

Alphastar	038, 059
Chaparral	034
DISH Network	057

12

odes	Drake
able to V ice may	Echost Expres Fujitsu GE Genera
d by the ens, use	Hitach Hughe Hughe Sys
163, 082, 191, 092, 197, 099	Intersa Janeil JVC Kenwo Magna Optimu
197 186, 088,	Pansat Primes Prosca Radio RCA Realist Samsu
194 196 196	Sony Star Ch Star Tr STS Toshib
990 171, 082, 191, 096	Unider
04	Zenith
85	TV/V
068, 070, 074, 075,	Action GE Goldst Panaso
99	Precisi Quasar Realist Sony Toshib Totevis Zenith
079, 080, 01, 105	DVD/
	Go Vid
87, 096,	JVC
	RCA
	Samsu
85	Sanyo
198 197, 099,	Zenith
	DVD
	1:000

Aiwa

Apex

BÔSE

Clarion

Broksonic

020, 040, 044, 046, tar ss Vu al Instruments es Network stems ood ivox us star Shack tic ng hoice ak a CR Combo tar onic ion ic a sion VCR Combo deo ıng player

	020, 040, 044, 046, 050, 053 018, 041, 051 057 027 008, 009, 013 010, 011, 012, 022, 023, 031, 049 033 033
	019 048 027 017, 057 029 060 058 036, 052 015, 042 008, 009, 013 022, 023, 030 008, 009, 013, 016 030 059 014, 055
	014, 055 057 025, 026, 037, 054 024 000, 001, 002, 003, 004, 005, 006, 007, 020, 031, 056 021, 028, 030, 032, 035, 039, 043, 045, 047, 058 027
	078 059, 062 065 078 065 079 074 057 009, 010, 065 065
D	DVD=087, VCR=081 DVD=088, VCR=082 DVD=089, VCR=083 DVD=090, VCR=084 DVD=091, VCR=085 DVD=092, VCR=086
	006, 015 016, 017 097 018 019

Classic Daewoo Denon Emerson Fisher Funai GE Go Video GPX Hitachi JVC Kenwood Konka Magnavox Memorex Mintek NAD Nakamichi Norcent Onkyo Oritron Panasonic Philips Pioneer Proscan Qwestar RCA Sampo Samsung Sansui Sanyo Sharp Sherwood Sony Sylvania Teac Technics Techwood Toshiba Yamaha Zenith

020 021 022, 023, 024, 025 026, 027 028 027 001, 029, 030 087 031 005, 032, 033, 034, 035 003, 007, 036, 042, 088 037 008,009 004, 038 039 040 026 041 043 044 058 010, 045, 046, 047, 048, 049, 050 004, 051 052, 053, 054, 055 001,056 057, 058 001, 002, 059, 089 060 061, 062, 086, 090 073 063, 091 064,067 074 011, 012, 065, 066, 068, 069, 070 027 071 072 075 000, 013, 076, 077, 078 079, 080, 081 014, 082, 092

Portable DVD player

Aiwa Audiovox Panasonic RCA

VCR

Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen Colortyme

Craig

049 019 018 003, 004, 037, 038, 039, 058, 069 010 007,068 008,017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057,073 005 009, 010, 016, 061,

093

098

094, 095

024, 096, 099

065, 079

001, 005, 009, 012,

014, 040, 048, 053, 056, 057

011, 013, 015, 017,

018, 019, 057, 078

003, 008, 010, 011,

017, 018, 020, 028,

039, 054, 057, 062,

023, 057, 064, 068, 070, 071, 079 004, 041

001, 002, 009, 040,

005, 010, 014, 054,

024, 025, 035, 037,

042, 063, 070, 080

005, 006, 007, 008,

009, 010, 023, 024, 025, 026, 035, 056,

005, 006, 007, 014, 037, 043, 062, 063,

005, 006, 007, 012,

014, 037, 043, 053, 068, 071

053, 073, 079

061, 065, 078

057, 061, 072

026, 027, 034, 044,

005, 006, 007, 012,

014, 026, 053, 067 007, 009, 010, 016,

018, 034, 049, 063,

065, 066, 068, 075,

024, 025, 035, 063

020, 024, 025, 028,

020, 028, 039

039, 043, 065

009, 046, 061

009, 012, 018

010, 049, 065

005, 006, 007, 012,

014, 037, 043, 053, 054, 067, 070

054, 057, 062, 065,

061, 063, 065

024, 025, 037

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018

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063

Chapter 2: Using the remote control

Panasonic

Daewoo Daytron Denon Dimensia Electrohome Emerson Fisher Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL JC Penney Jensen JVC Kenwood Kodak LG Lloyds Logik LXI

Curtis Mathes

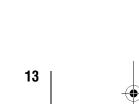
Magnasonic Magnavox Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech NEC Nikko Noblex Optimus Optonica

Orion

Pentax Pentex Research Philco Philips Pioneer Portland Proscan Proton Quasar Radio Shack Radio Shack/Realistic Radix RCA Realistic Ricoh Runco Samsung Sansui Sanyo Scott Sears Sharp Shintom Signature Signature 2000 Singer Sony STS Sylvania Symphonic Tandy Tashiko Tatung Teac Technics Teknika Toshiba Totevision Unitec Unitech Vector Research Video Concepts

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075, 079 013, 020 051, 060 004, 025 049	, 031, 049, , 066
075, 079 013, 020 051, 060 004, 025 049 075	, 031, 049, , 066
075, 079 013, 020 051, 060 004, 025 049 075 047, 061	, 031, 049, , 066 , 032, 061
075, 079 013, 020 051, 060 004, 025 049 075 047, 061	, 031, 049, , 066 , 032, 061
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075, 079 013, 020 051, 060 004, 025 049 075 047, 061 004, 032 052, 058 076, 077 035 018, 026 044, 072 018, 051 079 007 010 037	, 031, 049, , 066 , 032, 061 , 033, 041, , 070, 074, , 080 , 027, 028, , 053, 073,
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$\begin{array}{c} 075,079\\ 013,020\\ 051,060\\ 004,025\\ 049\\ 075\\ 047,061\\ 004,032\\ 052,058\\ 076,077\\ 035\\ 018,026\\ 044,072\\ 018,051\\ 079\\ 007\\ 010\\ 037\\ 018,029\\ 036\\ \end{array}$, 031, 049, , 066 , 032, 061 , 033, 041, , 070, 074, , 080 , 027, 028, , 053, 073,
$\begin{array}{c} 075,079\\ 013,020\\ 051,060\\ 004,025\\ 049\\ 075\\ 047,061\\ 004,032\\ 052,058\\ 076,077\\ 035\\ 018,026\\ 044,072\\ 018,051\\ 079\\ 007\\ 010\\ 037\\ 018,029\\ 036\\ \end{array}$, 031, 049, , 066 , 032, 061 , 033, 041, , 070, 074, , 080 , 027, 028, , 053, 073,
$\begin{array}{c} 075,079\\ 013,020\\ 051,060\\ 004,025\\ 049\\ 075\\ 047,061\\ 004,032\\ 052,058\\ 076,077\\ 035\\ 018,026\\ 044,072\\ 018,051\\ 079\\ 007\\ 010\\ 037\\ 018,029\\ 036\\ 010,018\\ \end{array}$, 031, 049, , 066 , 032, 061 , 033, 041, , 070, 074, , 080 , 027, 028, , 053, 073, , 037 , 065
075, 079 013, 020 051, 060 004, 025 049 075 047, 061 004, 032 052, 058 076, 077 035 018, 026 044, 072 018, 051 079 007 010 037 018, 029 036 010, 018 000, 011	, 031, 049, , 066 , 032, 061 , 033, 041, , 070, 074, , 080 , 027, 028, , 053, 073, , 037 , 065 , 021, 023,
075, 079 013, 020 051, 060 004, 025 049 075 047, 061 004, 032 052, 058 076, 077 035 018, 026 044, 072 018, 051 079 007 010 037 018, 029 036 010, 018 000, 011 024, 028	, 031, 049, , 066 , 032, 061 , 033, 041, , 070, 074, , 080 , 027, 028, , 053, 073, , 037 , 065 , 021, 023, , 030, 039,
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075, 079 013, 020 051, 060 004, 025 049 075 047, 061 004, 032 052, 058 076, 077 035 018, 026 044, 072 018, 051 079 007 010 037 018, 029 036 010, 018 000, 011 024, 028 057, 074	, 031, 049, , 066 , 032, 061 , 033, 041, , 070, 074, , 080 , 027, 028, , 053, 073, , 053, 073, , 037 , 065 , 021, 023, , 030, 039, , 078, 079
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075, 079 013, 020 051, 060 004, 025 049 075 047, 061 004, 032 052, 058 076, 077 035 018, 026 044, 072 018, 051 079 007 010 037 018, 029 036 010, 018 000, 011 024, 028 057, 074 009, 010 073	, 031, 049, , 066 , 032, 061 , 033, 041, , 070, 074, , 080 , 027, 028, , 053, 073, , 053, 073, , 037 , 065 , 021, 023, , 030, 039, , 078, 079
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075, 079 013, 020 051, 060 004, 025 049 075 047, 061 004, 032 052, 058 076, 077 035 018, 026 044, 072 018, 051 079 007 010 037 018, 029 036 010, 018 000, 011 024, 028 057, 074 009, 010	, 031, 049, , 066 , 032, 061 , 033, 041, , 070, 074, , 080 , 027, 028, , 053, 073, , 053, 073, , 037 , 065 , 021, 023, , 030, 039, , 078, 079
$\begin{array}{c} 075,079\\ 013,020\\ 051,060\\ 004,025\\ 049\\ 075\\ 047,061\\ 004,032\\ 052,058\\ 076,077\\ 035\\ 018,026\\ 044,072\\ 018,051\\ 079\\ 007\\ 010\\ 037\\ 018,029\\ 036\\ 010,018\\ 000,011\\ 024,028\\ 057,074\\ 009,010\\ 073\\ 009\\ 005,006\end{array}$, 031, 049, , 066 , 032, 061 , 033, 041, , 070, 074, , 080 , 027, 028, , 053, 073, , 053, 073, , 065 , 021, 023, , 030, 039, , 078, 079 , 065
$\begin{array}{c} 075,079\\ 013,020\\ 051,060\\ 004,025\\ 049\\ 075\\ 047,061\\ 004,032\\ 052,058\\ 076,077\\ 035\\ 018,026\\ 044,072\\ 018,051\\ 079\\ 007\\ 010\\ 037\\ 018,029\\ 036\\ 010,018\\ 000,011\\ 024,028\\ 057,074\\ 009,010\\ 073\\ 009\\ 005,006\\ 053\\ \end{array}$, 031, 049, , 066 , 032, 061 , 033, 041, , 070, 074, , 080 , 027, 028, , 053, 073, , 053, 073, , 065 , 021, 023, , 030, 039, , 078, 079 , 065 , 011, 012,
$\begin{array}{c} 075,079\\ 013,020\\ 051,060\\ 004,025\\ 049\\ 075\\ 047,061\\ 004,032\\ 052,058\\ 076,077\\ 035\\ 018,026\\ 044,072\\ 018,026\\ 044,072\\ 018,029\\ 007\\ 010\\ 037\\ 018,029\\ 007\\ 010\\ 037\\ 018,029\\ 007\\ 010\\ 037\\ 018,029\\ 007\\ 010\\ 037\\ 010\\ 037\\ 010\\ 037\\ 010\\ 037\\ 010\\ 037\\ 010\\ 037\\ 010\\ 037\\ 010\\ 037\\ 010\\ 037\\ 010\\ 037\\ 010\\ 037\\ 010\\ 037\\ 009\\ 005,006\\ 053\\ 005\\ 005\\ 005\\ 005\\ 005\\ 005\\ 005$, 031, 049, , 066 , 032, 061 , 033, 041, , 070, 074, , 080 , 027, 028, , 053, 073, , 065 , 021, 023, , 030, 039, , 078, 079 , 065 , 011, 012,
$\begin{array}{c} 075,079\\ 013,020\\ 051,060\\ 004,025\\ 049\\ 075\\ 047,061\\ 004,032\\ 052,058\\ 076,077\\ 035\\ 018,026\\ 044,072\\ 018,051\\ 079\\ 007\\ 010\\ 037\\ 018,029\\ 036\\ 010,018\\ 000,011\\ 024,028\\ 057,074\\ 009,010\\ 073\\ 009\\ 005,006\\ 053\\ \end{array}$, 031, 049, , 066 , 032, 061 , 033, 041, , 070, 074, , 080 , 027, 028, , 053, 073, , 065 , 021, 023, , 030, 039, , 078, 079 , 065 , 011, 012,
$\begin{array}{c} 075,079\\ 013,020\\ 051,060\\ 004,025\\ 049\\ 075\\ 047,061\\ 004,032\\ 052,058\\ 076,077\\ 035\\ 018,026\\ 044,072\\ 018,026\\ 044,072\\ 018,029\\ 007\\ 010\\ 037\\ 018,029\\ 007\\ 010\\ 037\\ 018,029\\ 007\\ 010\\ 037\\ 018,029\\ 007\\ 010\\ 037\\ 010\\ 037\\ 010\\ 037\\ 010\\ 037\\ 010\\ 037\\ 010\\ 037\\ 010\\ 037\\ 010\\ 037\\ 010\\ 037\\ 010\\ 037\\ 010\\ 037\\ 010\\ 037\\ 009\\ 005,006\\ 053\\ 005\\ 005\\ 005\\ 005\\ 005\\ 005\\ 005$, 031, 049, , 066 , 032, 061 , 033, 041, , 070, 074, , 080 , 027, 028, , 053, 073, , 065 , 021, 023, , 030, 039, , 078, 079 , 065 , 011, 012,

Wards White Westinghouse XR-1000 Yamaha Zenith	009, 010, 011, 016, 018, 020, 024, 025, 031, 035, 049, 051, 056, 057, 060, 065, 066, 079 073 018 005, 006, 007, 014, 037, 053 004, 032, 034, 041, 047, 069, 086
HTIB	
Lasonic Panasonic Venturer	083 084 085



Chapter 3: Menu layout and navigation

Main menu layout

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

lcon	Item	Option
Applications	Channel Browser	\rightarrow [Launches the Channel Browser TM]
	Digital CC/Audio Selector	→ [Launches the ATSC Digital CC Selector] (This option is not available, if you are not on a digital channel).
	CableCARD TM	→ Dynamic list of items provided by Cable company. (This option is not available if a CableCARD TM is not inserted.)
Video	Picture Settings	\rightarrow [Picture Settings edit window]
\sim	Advanced Picture Settings	\rightarrow [Advanced Picture Settings edit window]
	Theater Settings	→ [Theater Settings edit window]
Audio	Audio Settings	\rightarrow [Audio Settings window]
0	Advanced Audio Settings	→ [Advanced Audio Settings window]
Ø	Audio Setup	\rightarrow [Audio Setup window]
Preferences	Favorite Channels	→ [Favorite Channels edit window]
	Closed Caption Mode	\rightarrow Off/CC1/CC2/CC3/CC4/T1/T2/T3/T4
14	Closed Caption Advanced	→ [Closed Caption Advanced window]
	Input Labeling	\rightarrow [Input Labeling edit window]
	Menu Language	→ English / Français / Español
	Channel Browser Setup	→ [Channel Browser Setup window]
Locks	Enable Rating Blocking	\rightarrow Off/On
	Edit Rating Limits	\rightarrow [Edit Rating Limits edit window]
	Channels Block	\rightarrow [Channels Block edit window]
	Input Lock	\rightarrow Off/Video/Video+
	Front Panel Lock	\rightarrow Off/On
	New PIN Code	\rightarrow [New PIN Code entry window]
Setup	Installation	\rightarrow [Opens the Installation menu (r page 15)]
	Sleep Timer	\rightarrow [Sleep Timer edit window]
	ColorStream HD1 Audio	\rightarrow No/Yes
	HDMI 1 Audio	\rightarrow Auto / Digital / Analog
	ColorStream HD2 Audio	\rightarrow No/Yes
	HDMI 2 Audio	\rightarrow Auto / Digital / Analog
	Quick Restart	\rightarrow Off/On

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Chapter 3: Menu layout and navigation

Setup/Installation menu layout

To open the **Installation** menu (illustrated below), press \bigcirc^{MENU} on the remote control or TV control panel, open the **Setup** menu, select **Installation**, and press menu.

	lcon	Item	Option
Press \bigcirc^{MENU} .	Terrestrial	Input Configuration	→ [Input Configuration window]
Open the Setup menu, and then open the Installation		Channel Program	 → ANT1 → [Scans for new channels on desired Antenna] → ANT2 → [Scans for new channels on desired Antenna]
sub-menu.		Channel Add/Delete	\rightarrow [Channel Add / Delete Window]
suo-menu.		Signal Meter	→ [Signal Meter Window]
	System Status	System Information	→ [Opens the System Information window]

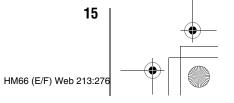
Navigating the menu system

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 $\overset{\text{MENU}}{\bigcirc}$ 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 me to save your menu settings or select a highlighted item. (A highlighted menu item appears in a different color in the menu.)
- All menus close automatically if you do not make a selection within 60 seconds, except the signal meter menu, which closes automatically after about 5 minutes.
- To close a menu instantly, press \bigcirc^{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 on-screen display of menus and messages.

To select the menu language:

- **1** Press \bigcirc^{MENU} and open the **Preferences** menu.
- 2 Highlight Menu Language and press ►.
- 3 Press ▲ or ▼ to select your preferred menu language and press ITB.



4 Press $\stackrel{\text{EXIT}}{\bigcirc}$ to close the **Preferences** menu.

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Configuring the antenna input sources for the ANT 1 and ANT 2 terminals

To configure the ANT 1 and ANT 2 input sources:

- **1** Press \bigcirc^{MENU} and open the **Setup** menu.
- **2** Highlight **Installation** and press **E**. (A new set of **Installation** menu icons will appear on-screen, as shown in step 3 below.)



3 Open the **Terrestrial** menu, highlight **Input Configuration**, and press **me**.



- 4 Press ▲ or ▼ to highlight ANT 1, and press ◀ or ► to select the input source (Cable or Antenna) for the ANT 1 input on the TV.
- 5 Press ▼ to highlight Antenna 2 in and then ◀ or ► to select the input source (Cable or Antenna) for the ANT 2 input on the TV, if applicable. If you have not connected anything to the ANT 2 input, skip this step.

Input Configuration						
Antenna 1	In	•	Cable	• •		
Antenna 2	In		Antenn	a		
	Cancel		Done			

6 To save your new settings, highlight **Done** and press **end**. To revert to your original settings, highlight **Cancel** and press **end**.

Programming channels into the TV's channel memory

When you press (\widehat{c}_{H}) or (\widehat{c}_{H}) on the remote control or TV control panel, your TV will stop only on the channels you program 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.

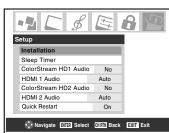
Notes:

- You must configure the antenna input sources before programming channels (respage 16).
- If the input signal type is set to **Cable** for an antenna input, the automatic channel programming process erases channels that were previously programmed into the TV's memory.
- If the input signal type is set to Antenna, the automatic channel programming process does NOT erase channels that were previously programmed into the TV's memory, but adds newly found channels to the existing set of programmed channels. To remove a 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 for an antenna input configured for Cable will take substantially longer than for an antenna input configured for Antenna. This is normal; however, once channel programming is completed, you should not have to repeat the programming process again unless your Cable TV service lineup changes significantly.
- If you have a CableCARD[™] inserted, channel programming for **ANT 1** is disabled because the CableCARD[™] automatically loads the Cable channel list into the TV's channel memory. See Installation Guide for details on CableCARD[™].

To program channels automatically:

- Make sure you have configured the antenna input sources (tr ⇒ page 16).
- **2** Press $\stackrel{\text{MENU}}{\bigcirc}$ and open the **Setup** menu.

3 Highlight **Installation** and press **•••**. (A new set of **Installation** menu icons will appear on-screen, as shown in step 4.)



4 Open the Terrestrial menu, highlight Channel Program, and press IPP.



5 Highlight **ANT 1** or **ANT 2**, depending on which antenna input you want to program channels for, and then press muto start automatic channel programming.



The TV will automatically cycle through all the channels for the antenna input you selected, 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 ^{EXIT} or highlight Abort in the on-screen display and press ^{IIII}.
 When channel programming is done, press ^{IIII} or ^{IIII} 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 \bigcirc^{MENU} and open the **Setup** menu.
- 2 Highlight Installation and press I. (A new set of Installation menu icons will appear on-screen, as shown in step 3.)

(continued)

3 Open the **Terrestrial** menu, highlight **Channel Add**/ **Delete**, and then press **E**.



4 The illustration below left shows channels programmed for the ANT 1 antenna input. To view the list of channels programmed for the ANT 2 antenna input, press ▲▼ to highlight ANT 2 and press III.

hannel Add	/Delete			Channe	el Add	/Delete		
□ 2		Analog	ANT 1	▲ ☑	1		Analog	O ANT 1
2-1		Digital	O ANT 2	~	2		Analog	③ ANT 2
2-2		Digital			3		Analog	
3		Analog		~	4		Analog	
✓ 4		Analog		~	5		Analog	
⊻ 5		Analog		~	6		Analog	
6		Analog			7		Analog	
7		Analog	Reset		8		Analog	Reset
7 - 1		Digital	Cancel	~	9		Analog	Cancel
v 🗖 8		Analog	Done	* 🗹	10		Analog	Done

To add a channel to the channel memory:

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

To manually add digital subchannels on a physical channel:

Use the Channel Numbers and the Dash (()) 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 must to uncheck the box.

To save your new settings:

Highlight **Done** and press III.

To revert to your original settings:

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

To remove all channels from the channel memory:

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

Notes:

- This action applies to the current antenna input only. To delete/add channels on the other input, highlight the input you want (ANT1, or ANT 2) and press m.
- This action cannot be cancelled unless you highlight **Cancel** and press im before saving your changes.

Chann	Channel Add/Delete					
	2		Analog	ANT 1		
~	2 - 1		Digital	O ANT 2		
\checkmark	2 - 2		Digital			
	3		Analog			
~	4		Analog			
~	5		Digital			
	6		Analog			
	7		Analog	Reset		
1	7 - 1		Digital	Cancel		
•	8		Analog	Done		

Programming your favorite channels

You can program up to 18 channels as favorite channels into two Favorite Channel lists (nine channels from the **ANT 1** input, and nine from the **ANT 2** input). 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 Channels lists:

- **1** Press ^{MENU} and open the **Preferences** menu.
- 2 Highlight Favorite Channels and press (1999).
- **3** Use $\blacktriangle \lor$ to select either ANT 1, or ANT 2, and press (\mathfrak{m}).
- **4** Highlight **Edit** and press **m**.



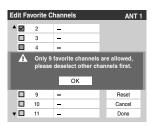
To add a channel to the selected Favorite Channel list:

Use $\blacktriangle \lor$ to highlight an unchecked box next to a channel you want to set as a favorite, and then press \blacksquare 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.

To delete the channel from the selected Favorite Channel list:

Highlight a checked box and press me to uncheck it.



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

When done, highlight **Done** and press IMB.

To program favorite channels for another input:

- Either... Highlight **ANT 1**, or **ANT 2**, which will change the favorite channel settings in the selected input. (This will not change the TV's current input.)
- Or... Press (Figure to select **ANT 1**, or **ANT 2** and then repeat steps 1–4, on page 18.

Favorite Cha	Favorite Channels			
6	Empty	Empty	O ANT 1	
Empty	Empty	Empty		
Empty	Empty	Empty	Edit Done	

To clear your favorite channel lists:

- **1** Press \bigcirc^{MENU} and open the **Preferences** menu.
- **2** Highlight **Favorite Channels** and press **IPP**.
- **3** Highlight **Edit** and press in .
- 4 Highlight **Reset** and press **E**.
- 5 Highlight **Done** and press **IPP**.

Edit F	avorite C	hannels	ANT 2
	2	-	
	2 - 1	-	
	2 - 2	-	
	4 - 1	-	
	5	-	
	17 - 1	-	
	17 - 2	-	
	28 - 1	-	Reset
	28 - 2	-	Cancel
▼ □	28 - 3	-	Done

To tune your favorite channels for the current ANT input:

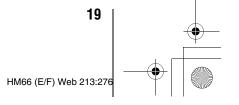
Press FAV▲ / FAV▼.

To tune your favorite channels using the favorite channel list:

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



Note: To tune your favorite channels for another input, press from to select the other input.



Setting the ColorStream HD audio mode

To set the ColorStream HD audio mode:

- **1** Press ^{MENU} and open the **Setup** menu.
- 2 Highlight ColorStream HD1(or 2) Audio and press ►.
- **3** Press \blacktriangle or \checkmark to select **Yes** or **No** and press m to display the information.



Note: The analog audio terminals for the ColorStream HD and HDMI inputs are used in common. When the ColorStream HD 1 (or 2) audio mode is set to **Yes**, the HDMI 1 (or 2) audio mode is set to **Digital** and will be greyed out. When the ColorStream HD 1 (or 2) audio mode is set to **No**, the HDMI 1 (or 2) Audio changes to **Auto**.

Setting the HDMI[™] audio mode

To set the HDMI audio mode:

- **1** Press $\overset{\text{MENU}}{\bigcirc}$ and open the **Setup** menu.
- **2** Highlight HDMI 1 (or 2) Audio and press \blacktriangleright .
- 3 Press ▼ or ▲ to select the HDMI audio mode (Auto, Digital, or Analog) and press . (Auto is the recommended mode.) See "Connecting an HDMI or DVI device to the HDMI input" (ISF Installation Guide).



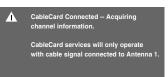
Note: The ColorStream HD1/HD2 Audio settings influence the HDMI Audio settings. If ColorStream HD1 (or 2) Audio is set to **No**, the HDMI 1 (or 2) Audio setting changes to **Auto**. If either ColorStream HD1 (or 2) Audio is set to **Yes**, the HDMI 1 (or 2) Audio setting is set to **Digital** and will be greyed out.

Viewing the CableCARD™ menu

A CableCARDTM enables you to view encrypted digital channels. See "Connecting a digital CableCARDTM" (I *Installation Guide*) for connection and subscription information.

Note: Connecting your TV directly to the Audio/Video output of your Set-Top-Box will assure a more vivid picture and enhance your viewing enjoyment.

After the CableCARDTM is inserted, a CableCARDTM option appears in the **Applications** menu, with informational screens provided by your digital CableCARDTM service (see illustrations below).



To view the CableCARDTM menu:

- **1** Press O and open the **Applications** menu.
- **2** Highlight **CableCARD[™]** and press **►**.
- 3 Press ▲ or ▼ to select one of the side menu items and press to display the information.



Note: The CableCARD[™] menu is for informational purposes only and has no user-adjustable options.

Setting the Quick Restart[™] feature

With the Quick RestartTM feature set to **On**, the TV will stay in Standby mode for several minutes after the TV is turned off (see Note on page 21).

If the TV is turned on from Standby mode, the full picture appears immediately.

To set the Quick RestartTM feature:

- **1** Press $\overset{\text{MENU}}{\bigcirc}$ and open the **Setup** menu.
- 2 Highlight Quick Restart and press ►.
- **3** Press \checkmark or \blacktriangle to select either **On** or **Off** and Press \blacksquare



Note: If **Quick Restart** is set to **Off** and you turn off the TV, it can take several seconds for the picture to appear when you turn on the TV again. See "important notice about hot lamp restart," below.

If **Quick Restart** is set to **On** and you turn off the TV, the following will occur for a few minutes:

- The screen (lamp) lights dimly; and
- The fans continue to run.

This is a function of the Quick Restart Shutdown mode and is not a TV malfunction. If you do not prefer this, set the **Quick Restart** feature to **Off**.

When the **Quick Restart** feature is set to **Off**, if you repeatedly turn the TV on and off in a short period of time, the useful service life of the lamp may be shorter than the average useful service life (we page 47).

IMPORTANT NOTICE ABOUT "HOT LAMP RESTART"

When the TV has been powered on long enough for the lamp unit to get hot, it may take several minutes for the picture to appear on-screen in the following situations:

- When the Quick Restart[™] feature is set to Off and you turn the TV off and then on again within a few minutes; or
- If the TV is on when a short-term power failure, power surge, or other similar power failure occurs, such that the TV loses and regains power within a few minutes.

This is a property of DLP™ TV lamp technology and is NOT a sign of malfunction.

If this occurs, the yellow LED on the TV front panel will blink (and the blue LED will be lit solid) until the TV is finished restarting the lamp and the normal picture appears. If both LEDs are blinking, you will need to turn the TV off and then on again to restart the lamp.

Viewing the digital signal meter

You can view the digital signal meter in the ANT 1 and ANT 2 digital TV input sources only.

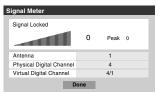
To view the digital signal meter:

- **1** Press $\overset{\text{MENU}}{\bigcirc}$ and open the **Setup** menu.
- **2** Highlight **Installation** and press **EP**.
- A new set of Installation menu icons will appear on-screen, as shown below.
 Open the Terrestrial menu, highlight Signal Meter, and press m.

	HHH CC	
	Input Configuration Channel Program Channel Add/Delete Signal Meter	
🛟 Navigate 🖽	🖼 Select 🕅 Back 🗉	T Exit

4 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:

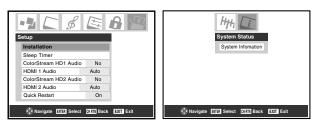
Highlight **Done** and press INF.

To return to normal viewing: Press $\stackrel{\text{EXIT}}{\bigcirc}$.

Viewing the system status

To view the system status:

- **1** Press $\overset{MENU}{\bigcirc}$ and open the **Setup** menu.
- 2 Highlight Installation and press I. A new set of Installation menu icons will appear on-screen, as shown below right.



- **3** Open the System Status menu, highlight System Information, and press Im.
- 4 Press **◄** ► to scroll through the menu bar to check the **Product Information** and **Software Version**.

Sy	stem Inf	ormation		System Information			
	•	Product Information	►		•	Software Version	•
		Brand: Toshiba Model: 50HM66				2.2.26.0 Jan 24 2006 - 11:04:47 FW: 17	
		Done				Done	

To close the screen and return to the Installation menu:

Highlight **Done** and press IPP.

To return to normal viewing: Press $\stackrel{\text{EXIT}}{\bigcirc}$.

Restore Factory Defaults

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

1 Follow steps 1–3 above.

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- 2 Press **♦** to scroll through the menu bar to select **Factory Defaults**.
- **3** Enter your PIN code (or 0000 if no PIN code has been set).
- 4 Highlight **Yes** and press IP. 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 restore process.



To cancel the reset:

Highlight **No** and press **IDE**.

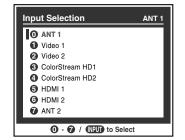
Note: If you have previously set the TV to **High Bright** mode, and have restored Factory Defaults, the TV will default to **Low Power** mode. To set the TV back to **High Bright** mode, see page 42.

Selecting the video input source to view

To select the video input source to view:

- **1** Press (NPUT) on the remote control or **INPUT** on the TV control panel.
- 2 Press 0–7 to select the input source you want to view, which will depend on the input terminals you used to connect your devices (☞ *Installation Guide*).

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



Notes:

- When the Input Selection screen is open, you also can use
 ▲▼ on the remote control (or the CHANNEL ∧ ∨ buttons on the control panel) to change the input.
- You can repeatedly press im on the remote control or the INPUT button on the TV control panel to change the input.
- You can label the video input sources according to the specific devices you have connected to the TV (Is "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

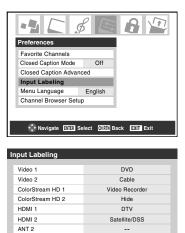
You can label each video input source according to the type of device you connected to each source, from the following preset list of labels:

- "--"(default label)
- Cable
- DTV
- Satellite/DSS
- VCR
- Laser Disk
- DVD
- · Audio Receiver
- Compact Disc
- Video Recorder
- Game Console
- Hide (to hide an unused input in the **Input Selection** screen)

Note: If you select ANT 2 in the Input selection screen, you can select either "--" or "Hide".

To label the video input sources:

- **1** Press \bigcirc^{MENU} and open the **Preferences** menu.
- **2** Highlight Input Labeling and press **m**.
- **3** Press \blacktriangle or \blacktriangledown to highlight the video source you want to label.



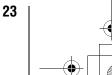
4 Press ◄ or ► to select the desired label for that input source. If a particular input is not used, you can select Hide as the label, which will cause that input to be "grayed out" in the input list and skipped over when you press (mer) on the remote control.

Done

Reset

5 To save the new input labels, highlight **Done** and press (IIII). To revert to the factory default labels, highlight **Reset** and press (IIII).

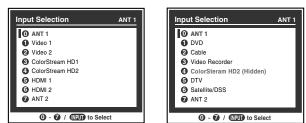
(continued)



ah 213-276

Input labeling example:

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



Input Selection screen

with no inputs labeled

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

To clear the input labels:

- 1 Press $\overset{\text{MENU}}{\bigcirc}$ and open the **Preferences** menu.
- 2 Highlight Input Labeling and press Im.
- 3 Highlight **Reset** and press I.

Tuning channels

Using the Channel Browser[™]

The Channel BrowserTM 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), the ANT2 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 BrowserTM banner (illustrated on the next page).
- Surf via Browse mode (to immediately tune channels as you highlight them in the Channel BrowserTM banner) or Select mode (to surf over channels in the browser banner before you select one to tune).
- Quickly change inputs from the Inputs List.
- Set a "HOME" source for an ANT1 or ANT2 channel or TV input.

To set the Channel BrowserTM:

- 1 Press $\stackrel{\text{MENU}}{\bigcirc}$ and open the **Preferences** menu.
- 2 Highlight Channel Browser Setup and press m.
- 3 Press \blacktriangle to highlight **Navigation**, and then press \blacktriangleleft or \blacktriangleright to select either Browse Mode or Select Mode.

Channel Browser Setup						
Navigation < Select Mode						
History List	Power Off Clear(On)					
ANT1 List	On					
ANT2 List	On					
Inputs List	On					
Reset	Done					

4 Press ▼ to highlight **History List** field, then press ◀ or ▶ to select the setting you prefer either Power Off Clear (On), On or Off.

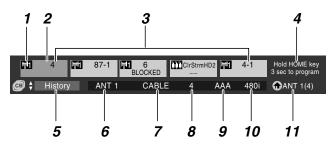
Note: When History List is set to On, the channels and inputs stored in the list will be saved through power on and off. When History List is set to Power Off Clear (On), the channels and inputs stored in the list will be cleared with every power on/off cycle of the TV.

- 5 Press ▼ to highlight **ANT1 List** field, then press ◀ or ▶ to select On or Off.
- 6 Press ▼ to highlight **ANT2 List** field, then press ◀ or ► to select On or Off.
- 7 Press ▼ to highlight **Inputs List** field, then press ◀ or ► to select **On** or **Off**.
- 8 To save your entries, highlight **Done** and press Im. To return to factory defaults, highlight Reset and press ENTER).

To open the Channel Browser[™] banner:

- Press $\textcircled{BCK}{\bullet}$ \blacktriangleleft , $\textcircled{BCK}{\bullet}$, or $\textcircled{HOME}{\bullet}$ on the remote control.
- Press desc d to surf back from the most recently viewed channel through the last 32 channels or inputs in the History list, ANT 1 channels list, ANT 2 channels list or the inputs list.
- Press
 → to surf forward from the previous item in the channel history, ANT 1, ANT 2, or inputs up to the most recently viewed item or end of list.

Elements of the Channel Browser[™] banner



- **1** Input type
- **2** Highlighted item (channel or input)
- **3** Channels stored in the channel history
- **4** Home instructions (this will be replaced once there are at least 6 items in the History, ANT 1 or Inputs lists)
- **5** Current list (**History**, **ANT 1**, **ANT 2** 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 between History, ANT 1, ANT 2 and Inputs:

After opening the Channel BrowserTM banner, press \blacktriangle or \checkmark to toggle between **History**, **ANT 1**, **ANT 2** and **Inputs**.

Note: The Channel Browser[™] banner 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:

- While watching TV, press ^{box} ← or ^{box} ► to open the Channel BrowserTM banner 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 browser banner, it will be highlighted and the TV will automatically tune to the channel or input.
- **2** Press \bigcirc^{EXIT} to close the Channel BrowserTM banner.

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

To tune to a channel or input in Select mode:

- While watching TV, press and or a review to open the Channel BrowserTM banner 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 browser banner, it will be highlighted but the TV will not automatically tune to the channel or input.
- **2** Press me to tune the TV to the highlighted item.
- **3** Press \bigcirc^{EXIT} to close the Channel BrowserTM banner.

Adding and clearing channels and inputs in the channel history

Adding channels and inputs to the channel history:

The Channel BrowserTM automatically creates a history of the last 32 channels or inputs that were tuned by adding that channel or input to the right of the list (revisited items are moved to the end of the list).

The Channel BrowserTM will store the following channels:

- All channels that are tuned using the numeric buttons on the remote control.
- All channels that are tuned to using (♣) or ♥, FAVA or FAV▼ on the remote control and inputs that are tuned to for at least 5 seconds.

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

Clearing channels from the channel history:

- 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)."
- Reconfiguring the **ANT 1** or **ANT 2** input will clear the channel history.

Note: See page 16 for details on configuring the antenna input.

- Removing the CableCARD[™] will clear the channel history.
- 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.

Using the Home feature

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 BrowserTM banner will appear at the bottom of the screen and the HOME icon will flash green.

To tune to HOME:

Press the $\overset{\text{HOME}}{\circledast}$ button on the remote to tune to your HOME channel or input. The Channel BrowserTM banner will display when HOME is tuned unless all lists have been turned to "Off" in the **Channel Browser Setup**.

Note: If all lists are turned to off, Home may not be set at this time; however, if it is already set, pressing the " \circledast " button on the remote will tune to the Home source, but will not display the Channel BrowserTM.

Tuning your favorite channels

To tune to the channels you programmed as Favorite Channels, see page 18.

Tuning to the next programmed channel

To tune to the next programmed channel:

Press \bigcirc or \bigcirc on the remote control or TV control panel.

Note:This feature will not work unless you program channels into the TV's channel memory (**u** 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 ($\overline{(100)}$) button and then the subchannel 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 (\mathbf{v} page 17) or the channel add/ delete function (\mathbf{v} page 17)–you will have to tune the RF channel using the Channel Number and the dash ($\overline{\mathbf{m}}$) 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 (()) 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 ^{CHRTN} from a non-antenna input, the TV will return to the last-viewed ANT input and channel.

Switching between two channels using SurfLock™

The SurfLockTM feature temporarily "memorizes" one channel in the $\bigcirc^{CH\,RTN}$ button, so you can return to that channel quickly from any other channel by pressing $\bigcirc^{CH\,RTN}$. To memorize a channel in the $\bigcirc^{CH\,RTN}$ button:

- **1** Tune the TV to the channel you want to program into the $\bigcirc^{CH \text{ BTN}}$ button.
- 2 Press and hold ^{CH RTN} for about 2 seconds until the message "Channel Memorized" appears on the 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 selected.

The TV will return to the memorized channel one time only. Once you press $\bigcirc^{CH\,RTN}$ 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 were tuned.

Selecting the picture size

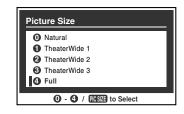
You can view many program formats in a variety of picture sizes—Natural, TheaterWide 1, TheaterWide 2, TheaterWide 3, and Full.

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 $\stackrel{\mathsf{PIC SIZE}}{\bigcirc}$ on the remote control.
- **2** While the **Picture Size** screen is on-screen, press the corresponding number button (0–4) to select the desired picture size.



Notes:

- 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 is.

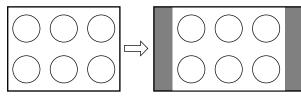
heater Settings	
Picture Size	Natural
Picture Scroll	
Cinema Mode	Film
Auto Aspect Ratio	On
Reset	Done

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: The way the image displays will vary depending on the format of the program you are currently watching.

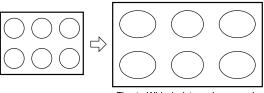


Conventional picture on a conventional TV screen

Conventional picture in Natural size on your wide-screen TV

TheaterWide 1 picture size (For 4:3 format program)

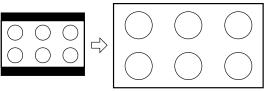
• The center of the picture remains close to its original proportion, but the left and right edges are stretched wider to fill the screen.



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" (ISP page 28).

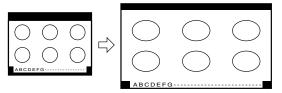


TheaterWide 2 picture size example



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

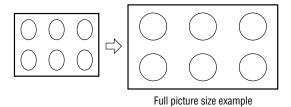
- The picture is stretched wider to fill the width of the screen, but only slightly stretched taller.
- The top and bottom edges are hidden. To view the hidden areas (such as subtitles or captions), see "Scrolling the TheaterWide[®] picture".



TheaterWide 3 picture size example

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.



Notes:

- 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.
- When selecting the picture size, the way the image displays will vary depending on the format of the program 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 $\stackrel{\text{MENU}}{\bigcirc}$ and open the Video menu.
- **2** Highlight **Theater Settings** and press **•••**.



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

Theater Settings						
Picture Size TheaterWide 2						
Picture Scroll	-5					
Cinema Mode	Film					
Auto Aspect Ratio	On					
Reset	Done					

6 To save the new settings, highlight **Done** and press **(IIII)**. To revert to the factory defaults, highlight **Reset** and press **(IIII)**.

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)	Selecting the picture size (IPP page 27)

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 $\stackrel{MENU}{\bigcirc}$ and open the **Video** menu.
- **2** Highlight **Theater Settings** and press **m**.
- **3** In the Auto Aspect Ratio field, select **On**.

Theater Set	tings			
Picture Size	9		Natural	
Picture Scr	oll	-1	0 <u>'</u>	
Cinema Mo	de		Film	
Auto Aspe	ct Ratio	•	On	►
	Reset		Done	

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

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/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 $\stackrel{\text{MENU}}{\bigcirc}$ and open the **Video** menu.
- **2** Highlight **Theater Settings** and press **•••**.
- **3** In the **Cinema Mode** field, select **Film**.

Theater Settings			
Picture Size		Natural	
Picture Scroll	-1 -	0	_
Cinema Mode	•	Film	•
Auto Aspect Ratio		On	

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

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

> 29 HM66 (E/F) Web 213:276

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 using the menu system:

- **1** Press \bigcirc^{MENU} and open the **Video** menu.
- 2 Highlight Picture Settings and press m.
- **3** In the **Mode** field, select the picture mode you prefer.

P	icture Set	tings			ANT 1
	Mode		•	Sports	►
	Contrast		100		0
	Brightness		50		
	Color		50		
	Tint		0		
	Sharpness		50		
		Reset		Done	
	Picture	Sottings		Mode: S	tandard
	Fictures	settings	_	woue: S	tanuaru

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

Notes:

- The picture mode you select affects the current input only (ANT 1 in the example above). 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.
- If you have previously set the TV to High Bright mode, and have chosen Reset in item 4 above, the TV will default to Low Power mode. To set the TV back to High Bright mode, see page 42.

Adjusting the picture quality

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

Selection	•	Pressing	•
contrast	lower		higher
brightness	darker		lighter
color	paler		deeper
tint	reddish		greenish
sharpness	softer		sharper

To adjust the picture quality:

- **1** Press \bigcirc^{MENU} and open the Video menu.
- **2** Highlight **Picture Settings** and press **•••**.
- 3 Press ▲ or ▼ to select the picture quality you want to adjust (Contrast, Brightness, Color, Tint, or Sharpness), and then press ◄ and ► to adjust the setting, as described in the table above.

Picture Settings		ANT 1
Mode		Sports
Contrast	100	0
Brightness	50	
Color	50	
Tint	0	
Sharpness	50	
Reset		Done
Picture Settings		Mode: Preference
Contrast	70	0

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

The picture qualities you adjusted are automatically saved in the **Preference** mode (**I**SF "Selecting the picture mode," above left).

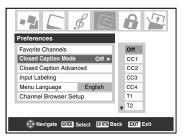
Using the closed caption mode

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 $\stackrel{\text{MENU}}{\bigcirc}$ and open the **Preferences** menu.
- 2 Highlight Closed Caption Mode and press ►.
- 3 Press ▲ or ▼ to select the desired closed caption mode and press (arg).



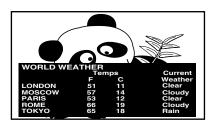
• To view captions:

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 your screen. If this happens, turn the Closed Caption Mode 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 text size, type, edge, color, and the background color. You cannot set the Caption Text and Background as the same color.

Notes:

- 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 \bigcirc^{MENU} and open the **Preferences** menu.
- **2** Highlight Closed Caption Advanced and press IPP.
- 3 Press ▲ or ▼ to highlight the characteristic you want to change, and then press ◄ or ► to select the format for that characteristic.

osed Caption Advanced			
Caption Size	•	Auto	►
Caption Text Type		Auto	
Caption Text Edge		Auto	
Caption Text Color		Auto	
Background Color		Auto	
Reset		Done	

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

Caption Size	Auto, Small, Standard, Large
Caption Text Type	Auto, Default, Mono w. Serif, Prof. w. Serif, Mono w/o Serif, Prop w/o Serif, Casual, Cursive, Small Capitals
Caption Text	Auto, None, Raised, Depressed, Uniform,
Edge	Left Drop Shadow, Right Drop shadow
Caption Text	Auto, Black, White, Red, Green, Blue,
Color	Yellow, Magenta, Cyan
Background	Auto, Black, White, Red, Green, Blue,
Color	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 O and open the **Applications** menu.
- 2 Highlight Digital CC/Audio Selector and press m.



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



4 Press \bigcirc^{EXIT} .

32

Adjusting the audio

Muting the sound

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

 \rightarrow 1/2 Mute \rightarrow Mute \rightarrow Volume \rightarrow -

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 $|^{\underline{m}}|$ to set the volume to 0. See "Using the closed caption mode" ($\mathbf{r}_{\overline{\mathbf{N}}}$ page 31) for more information on closed caption modes.

Using the digital audio selector

You can use the **Digital CC/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** (see "Selecting stereo/SAP broadcasts," on page 33).

To use the digital audio selector:

- **1** Press \bigcirc^{MENU} and open the **Applications** menu.
- 2 Highlight Digital CC/Audio Selector and press m.



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

Closed Caption		CC 1	
Audio	•	None	

4 Press

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

To listen to stereo sound:

- **1** Press \bigcirc^{MENU} and open the **Audio** menu.
- **2** Highlight **Audio Setup** and press **•••**.



3 In the MTS field, select Stereo.

udio Setup			
MTS	•	Stereo	•
Language		English	
Speakers		On	
Optical Output Format		Dolby Digital	
Reset		Done	

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

Notes:

- If you 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.

Notes:

 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

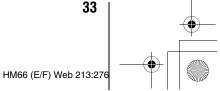
You can adjust the audio quality by adjusting the bass, treble, and balance.

To adjust the audio quality:

- **1** Press \bigcirc^{MENU} and open the Audio menu.
- **2** Highlight Audio Settings and press **•••**.
- 3 Press ▼ or ▲ to highlight the item you want to adjust (Bass, Treble, or Balance).

Audio Setti	ngs		
Bass		100	-0
Treble		100	-0
Balance		00	_
StableSoun	d	Off	
	Reset	Done	

- **4** Press \blacktriangleleft or \triangleright to adjust the level.
 - A 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 IPP. To reset the settings to the factory defaults, highlight **Reset** and press IPP.

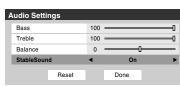


Using the StableSound[®] feature

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 $\stackrel{MENU}{\bigcirc}$ and open the **Audio** menu.
- 2 Highlight Audio Settings and press IPP.
- **3** In the **StableSound** field, select **On**.



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

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.

Turning off the built-in speakers

You can use this feature to turn off the TV speakers when you connect an audio system to your TV (I Connecting a digital audio system" and "Connecting an analog audio system" in the *Installation Guide*).

To turn off the built-in speakers:

- **1** Press \bigcirc^{MENU} and open the **Audio** menu.
- **2** Highlight Audio Setup and press **m**.
- **3** In the **Speakers** field, select **Off**.

A	udio Setu	р			
	MTS			Stereo	
	Language			English	
	Speakers		•	Off	►
	Optical Out	put Format		Dolby Digital	
		Reset		Done	

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

To turn on the built-in speakers: Select **On** in step 3 above.

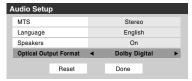
Selecting the optical audio output format

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

(IF "Connecting a digital audio system" in the *Installation Guide*).

To select the optical audio output format:

- **1** Press $\stackrel{\text{MENU}}{\bigcirc}$ and open the **Audio** menu.
- 2 Highlight Audio Setup and press (m).
- **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 IP. To revert to the factory defaults, highlight **Reset** and press IP.

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 $\overset{\text{MENU}}{\bigcirc}$ and highlight the **Locks** menu icon.

Locks		
Enable Rating Blocking	Off	
Edit Rating Limits		
Channels Block		
Input Lock	Off	
Front Panel Lock	Off	
New PIN Code		

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 (m).

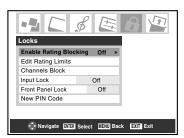
Lock System					
Please enter a 4 digit PIN code					
Confirm PIN code					
Cancel	Done				

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 [19].

Locks	Active
Please enter the 4 digit PIN	code
* * * *	coue
Cancel Done	

If the wrong PIN code is entered, the message "Incorrect PIN code, please try again!" appears. Highlight **Retry** and press **(1979)**. Enter the code again and press **(1979)**.

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

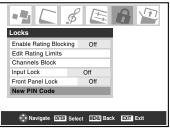


If you cannot remember your PIN code

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 O and highlight the **Locks** menu icon.
- **2** Press \checkmark to display the PIN code entering screen.
- **3** Enter your four-digit PIN code and press IPP.
- **4** Press \checkmark to highlight **New PIN Code** and press m.



- **5** Press the Number buttons to enter a new four-digit code. Retype the numbers to confirm the PIN code you entered.
- **6** Press III. The new PIN code is now active.

New PIN Code					
	PIN code				
Cancel	Done				

35 HM66 (E/F) Web 213:276

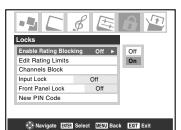
Blocking TV programs and movies by rating (V-Chip)

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. (See the tables at below right for rating descriptions.)

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 $\stackrel{\text{MENU}}{\bigcirc}$ and highlight the **Locks** menu icon.
- **2** Press \checkmark to display the PIN code entering screen.
- **3** Enter your four-digit PIN code and press Im.
- **4** Press **▼** to highlight **Enable Rating Blocking**.
- **5** Press \blacktriangleright and \checkmark to select **On**, and press \blacksquare .



- 6 Press ▼ to highlight Edit Rating Limits and press I The Edit Rating Limits screen (below) appears.
- 7 Press ▲▼◀▶ and then press I to select the level of blocking you prefer. A box with an "×" 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 **m**.

Edit Rati	ng	Lir	nit	s				
TV (V-CHIP) FV	D	L	s	v	Movies		
TV-Y	٠	٠	٠	٠	٠	🗹 G	Children	
TV-Y7	\checkmark	٠	٠	٠	٠	PG PG	Youth	
🗹 TV-G	٠	٠	٠	٠	٠	PG-13		
TV-PG	٠	~	\checkmark	\checkmark	\checkmark	R		
🖾 TV-14	٠		×			🖾 NC-17	Alt RS	
TV-MA	٠	٠				Х	Cancel	
✓"None" F	Rate	d					Done	

Blocking TV programs and movies by alternate ratings:

The alternate rating system is provided by some broadcasters as a supplement the standard V-Chip ratings. This system is dependant on the broadcaster's information.

1 Repeat steps 1-6 above.

- 2 Highlight Alt RS and press IP. The Edit Alternate Ratings screen will appear. (This button will only be available if your television has detected that the broadcaster is send alternate ratings with that program.)
- 3 Press ▲ ▼ ◀► and then press to select the level of blocking you prefer. A box with and "×" is a rating that will be blocked. (The information contained within this menu window will depend on what the broadcaster is providing.)
- 4 When done selecting the ratings you want to block, highlight **Done** and press **me**.
- 5 In the Edit Rating Limits screen, highlight Done and press IPP.

Edit Altern	ate Ratings	
Humor Level	Intelligence level	
DH DH	VL VL	
🖾 MH	⊠ LL	
Η	🖾 NL	
🖾 VH	🖾 HL	
EH EH	🖾 VH	
	TEST-MAX	

Cancel Done

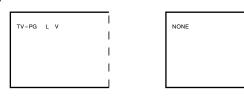
Note: The above illustration is example data only. The **Alternate Ratings** screen on your TV may not look the same.

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 Y7FV.)			
TV-Y	All Children (This program is designed to be appropriate for all children.)			

Independent rating system for movies					
Ratings	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 part or adult)					
PG-13 Parents Strongly Cautioned (Some material may inappropriate for children under 13)					
PG Parental Guidance Suggested (Some material manot be suitable for children)					
G	G General Audience (Appropriate for all ages)				

Notes:

- If you place an "×" 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
 netall 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 clear the setting first.

To block channels:

- **1** Press \bigcirc^{MENU} and highlight the **Locks** menu icon.
- **2** Press \checkmark to display the PIN code entering screen.
- **3** Enter your four-digit PIN code and press (page 35).
- **4** Press \checkmark to highlight **Channels Block** and then press m.

	s E	6
Locks		
Enable Rating Blocking	Off	
Edit Rating Limits		
Channels Block		
Input Lock	Off	
Front Panel Lock	Off	
New PIN Code		
🕀 Navigate 🛙 🕅 🛱 S		
wavigate Eller S	MENU Bac	K EAH EXIT

5 Using ▲▼◀▶ buttons, select the input for which you want to change the rating limits (ANT1, or ANT2) and press (ITE).

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 , which puts an "×" in the box next to that channel.

Ch	Channels Block ANT 2					
	-					
-	\times	1		O ANT 1		
		2		ANT 2		
	×	3				
	\boxtimes	4				
		5				
	×	6				
	\boxtimes	7		Allow All		
		8		Block All		
	X	9		Cancel		
v		10		Done		

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

To unblock individual channels:

In step 6 above, press $\blacktriangle \forall$ to highlight the channel you want to unblock, and then press is to remove the "X" from the box, and then highlight **Done**, and then press is.

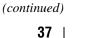
To block all channels at once:

Highlight **Block All** in step 6 above, and then highlight **Done**, and press **EP**.

To unblock all locked channels at once:

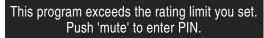
Highlight **Allow All** in step 6 above, and then highlight **Done** and press **and**.

Ch	Channels Block ANT				
	п	1		ANT 1	
		2		O ANT 2	
		3			
		4			
		5			
		6			
		7		Allow All	
		8		Block All	
		9		Cancel	
•		10		Done	



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:



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

To temporarily unlock the program:

1 Press \bigcirc^{MUTE} .

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2 Enter your four-digit PIN code and press III. 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.

Active
mporaily un-
Done

Using the input lock feature

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

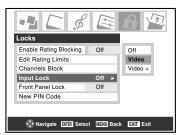
To lock/unlock the video inputs:

- **1** Press O and highlight the **Locks** menu icon.
- **2** Press \checkmark to display the PIN code entering screen.
- **3** Enter your four-digit PIN code and press Im.
- **4** Press \checkmark to highlight **Input Lock** and press \triangleright .
- **5** Press \blacktriangle or \blacktriangledown to select the level of video input locking you prefer, as described below.

Video: Locks VIDEO 1, VIDEO 2, ColorStream HD1/ HD2, HDMI 1/HDMI 2.

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

- Select Video+ if you play video tapes via an ANT input.
- When a CableCARD[™] is inserted, Video+ will not lock channels 3 and 4.



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

6 Press III.

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 O and highlight the **Locks** menu icon.
- **2** Press \checkmark to display the PIN code entering screen.
- **3** Enter your four-digit PIN code and press **•••**.
- 4 Press **▼** to highlight **Front Panel Lock**.
- 5 Press ▶ and ▲ or ▼ to highlight On and press I 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.

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:

Press $\overset{\text{SLEEP}}{\bigcirc}$ on the remote control to set the length of time until the TV turns off. Repeatedly press $\overset{\text{SLEEP}}{\bigcirc}$ to increase the time in 10-minute increments or press \blacktriangle or \blacktriangledown to increase or decrease the time in 10-minute increments, to a maximum of 180 minutes.

To cancel the sleep timer:

Press \bigcirc^{SLEEP} until it is set to 0 minutes.

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

- **1** Press $\overset{\text{MENU}}{\bigcirc}$ and open the **Setup** menu.
- **2** Highlight **Sleep Timer** and press **E**.

S	Setup Installation		
	Sleep Timer		
	ColorStream HD1 Audio	No	
	HDMI 1 Audio	Auto	
	ColorStream HD2 Audio	No	
	HDMI 2 Audio	Auto	
	Quick Restart	On	
-			
	Navigate ENTER Select	CHRIN Back	EXIT Exit

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

Sleep Timer				
Enter total minutes until the TV turns off automatically (Maximum 180 minutes)				
1 2 0				
Cancel Done				

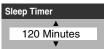
4 Highlight **Done** and press **F**.

Notes:

- When a power failure occurs, the sleep timer setting may be cleared.
- To display the amount of time left on the sleep timer, press ^{RECALL}.

To display the remaining sleep time:

Press \bigcirc^{SLEEP} .



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



Displaying TV setting information on-screen using RECALL

To display TV setting information on-screen:

Press $\overset{\mathsf{RECALL}}{\bigcirc}$ on the remote control.

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



Sample RECALL screen

- Current input (ANT 1, ANT 2, VIDEO 1, etc.)
- If ANT 1 or ANT 2 is the current input, whether it is Cable TV ("CABLE") or off-air ("TV")
- Channel number (if in **ANT 1** or **ANT 2** mode)
- 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

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- · Video resolution
- Lamp mode (appears only if the TV is in High Bright mode)

To close the RECALL screen:

Press O 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** and **ANT 2** modes 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.

Chapter 6: Using the TV's advanced features

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 **Picture Settings** will be used.

To select dynamic contrast preferences:

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

A	Advanced Picture Settings ANT 1				
	Dynamic Contrast	•	On	►	
	CableClear		Auto		
	MPEG Noise Reductio	n	Low		
	Color Temperature		Cool		
	Lamp Mode		Low Power		
	Game Mode		Off		
	Reset		Done		

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

Note: If you select the Movie picture mode and then set the dynamic contrast to **On**, the picture mode will automatically change to **Preference** in the **Picture Settings** menu.

Using CableClear[®]/DNR (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/DNR settings:

- **1** Press \bigcirc^{MENU} and open the **Video** menu.
- 2 Highlight Advanced Picture Settings and press m.
- **3** In the **CableClear/DNR** field, select your desired setting.

Dynamic Contrast	On
CableClear	▲ Auto ►
MPEG Noise Reduction	Low
Color Temperature	Cool
Lamp Mode	Low Power
Game Mode	Off

Notes:

- If the current input is ANT 1, ANT 2, VIDEO 1, or VIDEO 2, the menu will display the text "CableClear." The available selections are Off, Low, Middle, High, and Auto.
- If the current input is ColorStream HD1, ColorStream HD2, or HDMI, the menu will display the text DNR. The available selections are Off, Low, Middle, High and Auto. 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 [19]. To revert to the factory defaults, highlight **Reset** and press [19].

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 $\overset{\text{MENU}}{\bigcirc}$ and open the **Video** menu.
- 2 Highlight Advanced Picture Settings and press in 2
- 3 Press ▲ or ▼ to highlight the MPEG Noise Reduction field, and then press ◀ or ► to select either Off, Low, Middle or High.

Advanced F	Picture Sett	ings		ANT 1
Dynamic Co	ontrast		On	
CableClear			Auto	
MPEG Nois	e Reduction	•	Low	►
Color Temperature			Cool	
Lamp Mode			Low Pow	er
Game Mode			Off	
	Reset		Done	

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



Chapter 6: Using the TV's advanced features

Selecting the color temperature

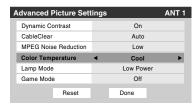
You can change the quality of the picture by selecting from three preset color temperatures (cool, medium, and warm), as described below.

Mode	Picture Quality	
cool	blueish	
medium	neutral	
warm	reddish	

To select the color temperature:

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- **1** Press \bigcirc^{MENU} and open the Video menu.
- 2 Highlight Advanced Picture Settings and press m.
- **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 I. To revert to the factory defaults, highlight **Reset** and press I.

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.

Selecting the lamp mode

You can select either the **High Bright** or **Low Power** lamp mode.

• The **High Bright** mode is useful when additional picture brightness is desired (such as in a bright room).

To select the lamp mode:

- **1** Press \bigcirc^{MENU} and open the Video menu.
- 2 Highlight Advanced Picture Settings and press in.



3 In the Lamp Mode field, select High Bright or Low **Power**, whichever you prefer.

Advanced Picture Settings ANT 1				
Dynamic Contrast		On		
CableClear		Auto		
MPEG Noise Reduction	on	Low		
Color Temperature		Cool		
Lamp Mode	•	Low Power	►	
Game Mode		Off		
Reset		Done		

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

Note: If you set the lamp mode to **Low Power**, each time you turn on the TV, the lamp will start out in **High Bright** mode but will switch to **Low Power** mode after a short period of time. You may notice a change in screen brightness when this happens. This is normal and is not a sign of malfunction.

Chapter 6: Using the TV's advanced features

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, HDMI 1 or HDMI 2. The Game Mode cannot be turned on when any other video input is selected.

To turn on Game Mode:

- **1** Press $\overset{MENU}{\bigcirc}$ and open the Video menu.
- 2 Highlight Advanced picture settings and press em.
- **3** Press \blacktriangle or \lor to highlight the **Game Mode** field, and then press \blacktriangleleft or \triangleright to select **On**.

dvanced Picture S	Settings	Video [·]
Dynamic Contrast		On
CableClear		Auto
MPEG Noise Reducti	on	Low
Color Temperature		Cool
Lamp Mode	Lov	w Power
Game Mode	•	On 🕨
Reset	Don	e

To turn off Game Mode:

Select **Off** in step 3 above or change the video input. *You can change the video input in any of the following ways:*

- pressing im on the remote control (i page 23);
- changing the channel using the Numbers or (A) /(♥), CHRIN,

 [™]

 [™] </l
- Turning the TV off and back on again will set Game Mode to **Off**.

Using the advanced audio settings features

Using the SRS WOWTM surround sound feature

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 WOWTM settings:

- 1 Put the TV in **STEREO** mode (IS "Selecting stereo/SAP broadcasts" page 33).
- **2** Press $\stackrel{\text{MENU}}{\bigcirc}$ and open the **Audio** menu.
- **3** Highlight Advanced Audio Settings and press **•••**.
- 4 Press \forall or \blacktriangle to highlight the WOW feature you want to adjust, and then press \triangleleft or \triangleright to adjust the item.

Advanced Au	Idio Setti	ngs		
		-		
WOW: SRS 3	D		Off	
WOW: SRS F	OCUS	Off		
WOW: SRS T	ruBass		Low	
	Reset		Done	

• 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 IPP. To revert to the factory defaults, highlight **Reset** and press IPP.

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

Chapter 7: Troubleshooting

General troubleshooting

Before calling a service technician, please check this entire 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 (INGE page 31).

TV plays a recorded anouncement when LEDs are blinking

• When certain non-standard conditions occur, the LEDs on the TV will blink and the TV will play a recorded "voice announcement" describing the condition (see "LED indications" on page 46 for details).

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 (IPS page 22).

TV will not turn on

- Make sure the power cord is plugged in, and then press $\frac{POWER}{@}$.
- The remote control batteries may be dead. Replace the batteries or try the control panel buttons.
- If you have recently replaced the lamp unit, make sure the lamp unit and lamp unit door are installed properly (1) pages 47–49).
- The lamp unit may need to be replaced (12 pages 47–49). Also see "LED indications" (12 page 46).
- If the TV is powered off and then quickly on again when the lamp unit is hot, it may take several minutes for the picture to appear on-screen. This is a property of DLP TV lamp technology and is NOT a sign of malfunction. For details, see IMPORTANT NOTICE ABOUT "HOT LAMP RESTART" (I page 2).

Picture problems

General picture problems

- Check the antenna/cable connections (I Installation *Guide*).
- Press (PP) on the remote control or INPUT on the TV control panel and select a valid video input source (PSP page 23). If no device is connected to any of the inputs 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 (pr page 30).
- If you are using a VCR, make sure on the remote control is set correctly (r 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 Svideo cable to the same set of VIDEO inputs (VIDEO 1, or VIDEO 2) at the same time (Installation Guide).

Noisy picture

If you are watching a tuned analog channel (off-air broadcast or Cable TV), set the CableClear[®]/DNR feature to AUTO to reduce visible interference in the TV picture (respage 41).

Video Input Selection problems

 If the Input Selection window does not appear when you press (m) on the remote control or INPUT on the TV control panel, press (m) 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 (1) page 38).

Poor color or no color

- The station may have broadcast difficulties. Try another channel.
- Adjust the **Tint** and/or **Color** (Reg page 30).
- When the ColorStream[®] signal source is active, the VIDEO OUT terminal outputs blank video. To receive video from the VIDEO OUT signal, a standard video or S-video IN terminal must be used instead of the ColorStream[®] connections.

Picture brightness changes soon after turning on TV

• If you set the lamp mode to **Low Power**, each time you turn on the TV, the lamp will start out in **High Bright** mode but will switch to **Low Power** mode after a short period of time. You may notice a change in screen brightness when this happens. This is normal and is not a sign of malfunction (1) page 42).

Poor composite or S-video picture

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

Picture and sound are out of sync

• As with all products that contain a digital display, in rare instances, when viewing certain content (e.g.. television broadcasts, video games, DVDs), you may notice that the sound and picture are slightly out of sync. This phenomenon can be caused by various factors including, without limitation, video processing within the TV, video processing in an attached gaming system, and video processing or different compression rates used by broadcasters in their programming. You may want to try one or more of the following suggestions, which may help to reduce the effect of this phenomenon:

Chapter 7: Troubleshooting

- 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.

Sound problems

- Check the antenna/cable connections (I Installation *Guide*).
- The station may have broadcast difficulties. Try another channel.
- The sound may be muted. Press (+).
- If you hear no sound, try setting the **MTS** feature to **Stereo** mode (**r** page 33).
- Make sure the Speakers function in the **Audio Setup** menu is set correctly (**1** page 34).
- If you are not receiving a second audio program from a known SAP source, make sure the MTS feature is set to SAP mode (Ing page 33).
- 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 (ISP page 33).
- When using an external audio amplifier, if you connect the amplifier to the VAR. AUDIO OUT terminals, the volume of the TV and amplifier must be set above 0 or you will not hear any sound (Installation Guide).

Remote control problems

- Make sure the remote control is set to the correct device mode (r pages 9–10).
- Remove all obstructions between the remote control and the TV.
- The remote control batteries may be dead. Replace the batteries (rsp 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 (1) pages 9–13).
- If the TV still does not act as expected, use the Restore Factory Defaults procedure (1) page 22).

Channel tuning problems

- Make sure the remote control is set to the correct device mode (ISP 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 (INST page 17).
- The channel may be blocked by the **Channels Block** feature. Unblock the channel (ps page 37).
- If you are unable to tune digital channels, check the antenna configuration (ISF page 16). If you are still unable to tune digital channels, clear all channels from the channel list (ISF page 18) and reprogram channels into the channel memory (ISF page 17). If you are still unable to tune digital channels, use the Restore Factory Defaults procedure (ISF page 22). Also see "TV stops responding to controls" and "Other problems" (ISF page 44).

Closed caption problems

- If the program or video you selected is not closedcaptioned, no captions will display on-screen (program page 31).
- If text is not available, a black rectangle may appear onscreen. If this happens, turn off the closed caption feature (1) page 31).
- 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 (1) page 31).

Rating blocking (V-Chip) problems

- If you forget your PIN code: While the PIN code entering screen is displayed, press Control four times within 5 seconds. The PIN code you previously stored will be cleared (I page 35).
- The V-Chip feature is available for the U.S. V-Chip system only (1) page 36).

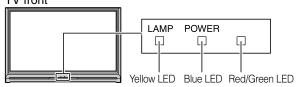
Chapter 7: Troubleshooting

LED indications

The yellow blue and red/green LED lights on the TV (at the bottom center of the TV) 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.

TV front



"Voice announce" feature

When certain non-standard conditions occur, the LEDs on the TV will blink and the TV will play a recorded "voice announcement" describing the condition (see the table below for the specific conditions that include a voice announcement). To repeat the voice announcement and hear additional

information, press the MENU button on the TV while the LEDs are blinking.

LED Indication	Condition	Solution	Voice announce
1) Blue is ON (solid).	The TV is operating properly.	-	_
2) Yellow blinks.	In LPS mode (standby with Quick Restart ON).	See "Setting the Quick Restart™ feature" (IS page 20).	-
 Blue is ON (solid). Yellow blinks. 		The TV will automatically try to restart itself eight times (see item #4).	
	The lamp is not working properly.	Note: If the TV is powered off and then quickly on again when the lamp unit is hot, it may take several minutes for the picture to appear on-screen. This is a property of DLP TV lamp technology and is NOT a sign of malfunction. For details, see "Setting the Quick Restart [™] feature" and "IMPORTANT NOTICE ABOUT HOT LAMP RESTART" (1887 page 21).	_
 Yellow is ON (solid). Red blinks. 	The lamp is not working properly after the eighth automatic restart (see item #3).	Turn the TV OFF and then ON again. If the problem persists, contact Consume Solutions at 1-800-631-3811.	"Lamp not working"
5) Yellow is ON (solid).	The lamp unit door is not seated properly.	Turn OFF the TV and unplug the power cord. Review "Lamp unit replacement and care" in Chapter 8 to ensure that the lamp door is installed securely.	"Lamp door is open."
6) Red blinks.	Fan stopped (light engine).		"Fan stopped."
7) Blue is ON (solid). Green blinks.	Fan stopped (POD).		"Fan stopped."
8) 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.	-
9) Blue blinks quickly.	Power Protect Detection.		-
10) Blue blinks quickly. Red blinks.	The color wheel has stopped.		"Color wheel stopped."
11) Blue blinks quickly. Yellow blinks. Red blinks.	An abnormal temperature increase has occurred.	Turn OFF the TV. Check to make sure all slots and openings in the TV cabinet are not covered, blocked, or dusty. Turn ON the TV again.	"Temperature warning."

If, after trying 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."



Lamp unit replacement and care

Replacing the lamp unit (User-replaceable component)



TO REDUCE THE RISK OF ELECTRIC SHOCK, NEVER REMOVE TV COVERS, EXCEPT AS SPECIFIED HEREIN. REFER ALL SERVICING NOT SPECIFIED IN THIS MANUAL TO QUALIFIED SERVICE PERSONNEL. Failure to follow this WARNING may result in death or serious injury.

The light source for this TV is a mercury lamp with internal atmospheric pressure that increases during use. The lamp has a limited service life that varies depending on product use and user settings.

As is generally the case with all projection TVs that use projection lamps as a light source, the brightness of the lamp in this TV may vary somewhat over the expected service life and will generally decrease over time. Because of the many variables that can affect the useful service life of the lamp, your experience may vary from other users.

Note : The lamp is warranted only for the periods and to the extent set forth in the Limited Warranty applicable to this set. See "Limited United States Warranty" (1) page 51) or "Limited Canada Warranty" (1) page 52), as applicable.

If you use the lamp beyond its service life:

- you may notice a reduction in the colors and/or brightness of the picture; and
- the strength of the quartz glass in the lamp will be reduced and the lamp may rupture (often making a loud noise when this happens). If the lamp ruptures, the TV will not operate until the lamp unit is replaced.

CAUTION: Always handle the lamp unit with care.

The lamp unit in this TV was designed for safe replacement by consumers; however, if the lamp unit is subjected to intentional abuse (such as excessive mechanical abuse or handling by children or pets), the unit may break, exposing sharp edges or pinch points.

When to replace the lamp unit

You should replace the lamp unit:

- if the picture darkens and/or colors fade;
- if the screen (lamp) does not light (LED indication #4,
 page 46); or
- if you hear a loud noise and the picture goes black, which may indicate a lamp rupture (LED indication #4,
 page 46).

To obtain a replacement lamp unit:

In the U.S.		
In warranty:	Visit www.tacp.toshiba.com/service or call toll-free 1-800-631-3811.	
Out of warranty:	Visit www.ceaccessories.toshiba.com or consult your consumer electronics dealer.	

In Canada

Locate a Toshiba parts distributor by visiting **www.toshiba.ca.** Click "Home Entertainment" and then click "Support."

Always replace the lamp unit with the model currently recommended by Toshiba.

For more information, please contact us at the telephone numbers listed above, or visit the websites listed above, as applicable.

Using any lamp other than those recommended by Toshiba may cause damage to the TV and/or lamp. SUCH DAMAGE IS NOT COVERED UNDER YOUR TOSHIBA WARRANTY.

How to replace the lamp unit

WARNING: RISK OF ELECTRIC SHOCK! TO REDUCE THE RISK OF ELECTRIC SHOCK, NEVER REMOVE TV COVERS, EXCEPT AS SPECIFIED HEREIN. REFER ALL SERVICING NOT SPECIFIED IN THIS MANUAL TO QUALIFIED SERVICE PERSONNEL. Failure to follow this WARNING may result in death or serious injury.

Required tools:

- Manual screwdrivers (Phillips and slotted)
- Soft, lint-free gloves
- **1** Turn off the TV and unplug the power cord.

WARNING: Eye damage may result from directly viewing the light produced by this lamp.

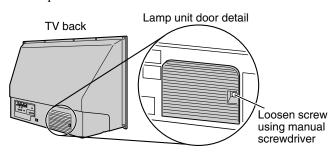
Always turn off the TV and unplug the power cord before opening the lamp unit door.

2 STOP! Allow the lamp to cool for at least one (1) hour before replacing it.

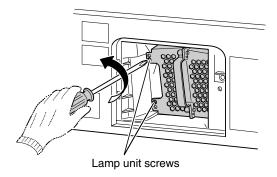


LEAST ONE (1) HOUR BEFORE REPLACING IT.

3 On the lamp unit door on the back of the TV, loosen the screw by using manual screwdriver, and then remove the lamp unit door.



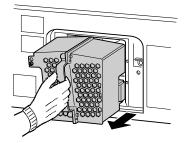
4 Using a manual Phillips screwdriver, loosen the two screws on the lamp unit.



WARNING: RISK OF ELECTRIC SHOCK!

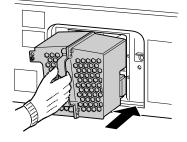
The lamp unit door is provided with an interlock to reduce the risk of electric shock and excessive ultraviolet radiation. Never defeat its purpose or attempt to service without removing the lamp unit door completely. Failure to follow this WARNING may result in death or serious injury.

5 Grasp the lamp unit handle and gently pull the lamp unit straight out of the TV. Set the old lamp unit aside (ISP "Disposing of the used lamp unit" on page 49).



NOTE: Wear soft, lint-free gloves when replacing the lamp unit.

6 Carefully insert the new lamp unit straight into the TV until it is fully seated.



Notes:

- Never subject the lamp unit to excessive shock.
- Never touch the lamp unit glass or otherwise get it dirty. Doing so may affect the image quality and reduce the service life of the lamp. See "Cleaning the lamp unit glass" below.

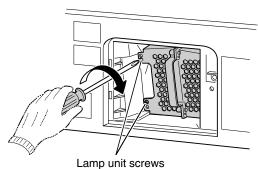
CLEANING THE LAMP UNIT GLASS

If you accidentally touch the lamp unit glass or otherwise get it dirty, wipe it with a lint-free lens cleaning cloth (such as a cloth for cleaning camera lenses or eyeglasses).

CAUTION: NEVER clean a hot lamp with any type of flammable liquid or aerosol cleaning agent. Many ordinary cleaning agents (such as glass cleaners) contain chemicals that may be flammable at certain temperatures. If the lamp unit is not allowed to cool for at least one (1) hour, such chemicals may ignite.

7 Using a manual phillips screwdriver, tighten the two lamp unit screws.

Note: Hand-tighten only. Do not use an electric screwdriver.

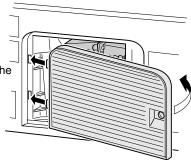


(use manual Phillips screwdriver only)

NOTE : Make sure the lamp unit and screws are installed securely; otherwise, the TV may not turn on and the lamp life may be shortened.

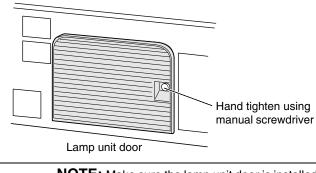
8 Reattach the lamp unit door, making sure to insert the hooks on the left side of the lamp unit door inside the opening in the TV cabinet.

Insert the hooks inside the TV cabinet opening.



Lamp unit door

9 Replace the screw and tighten using a manual screwdriver.



NOTE: Make sure the lamp unit door is installed securely; otherwise, the TV may not turn on.

- **10** Plug in the power cord and turn on the TV. After the initial warmup period (which may take several seconds for full picture brightness), the TV should operate normally. If any of the following conditions exist, turn off the TV, unplug the power cord, and repeat steps 1-9 to ensure that the lamp unit and lamp unit door are installed correctly:
 - No picture
 - Dark picture
 - TV will not turn on
 - If, after repeating steps 1–9, 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."

Disposing of the used lamp unit

- Place the used lamp unit in the empty box from the new unit.
- Keep the lamp unit out of reach of children and pets.



CAUTION: Always handle the lamp unit

The lamp unit in this TV was designed for safe replacement by consumers; however, if the lamp unit is subjected to intentional or accidental abuse (such as excessive mechanical abuse or handling by children or pets), the unit may break, exposing sharp edges or pinch points.

Dispose of the used lamp unit by the approved method for your area.



NOTE : The lamp unit contains mercury. Disposal of mercury may be regulated due to environmental considerations. For disposal or recycling information, contact your local authorities or the Electronic Industries Alliance (www.eiae.org).

Specifications

Notes:

- 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

215 W (average)
28 W in standby mode (using a CableCARDTM)
24 W in standby mode (without a CableCARDTM)

Audio Power

10 W + 10 W

Speaker Type

Main: Two $2-3/8 \times 4-3/4$ inches (6×12 cm) round Tweeter: Two 1-5/16 inches (33 mm) round

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

Рв: 0.7 V(p-p), 75 ohm Рв: 0.7 V(p-p), 75 ohm

Suggested formats: 1080i, 480p, 480i, 720p

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AUDIO: 150 mV(rms), 22 k ohm or greater
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HDMI[™] INPUT: HDMI compliant (type A connector) HDCP compliant E-EDID^{**} compliant Suggested formats: 1080i, 480p, 480i, 720p HDMI Audio: 2-channel 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)
VARIABLE AUDIO OUTPUT: 0-300 mV(rms) (30% modulation equivalent, 2.2 k ohm or less)
DIGITAL AUDIO OUTPUT:

Optical type

Dimensions

- 50HM66: Width: 47-3/16 inches (1,199 mm) Height: 30-11/16 inches (780 mm) Depth: 16-5/8 inches (422 mm) 56HM66: Width: 52-3/8 inches (1,330 mm)
- Height: 33-3/4 inches (857 mm) Depth: 18-3/8 inches (467 mm)

Weight

50HM66:64 lbs (29.0 kg) 56HM66:72 lbs (32.7 kg)

Operating conditions

Temperature: 41°F–95°F (5°C–35°C) Humidity: 20–80% (no moisture condition)

Supplied Accessories

- · Remote control with two size "AAA" batteries
- Dual-wand IR blaster cable
- Installation Guide
- Operating Guide (this book)

Optional Stands

50HM66:ST 5066 56HM66:ST 5666

- ** E-EDID = Enhanced-Extended Display Identification

Limited United States Warranty

for DLP™ Television Models

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 DLP™ TELEVISION AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

DLP™ 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.

DLP™ 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 DLP[™] 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 DLP[™] Television will be taken to a TACP Authorized Service Station for repair and returned to your home at no cost to you.

Limited One (1) Year Warranty on Lamp Unit

TACP warrants the original lamp unit contained in this DLP[™] Television 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, EXCHANGE A DEFECTIVE LAMP UNIT WITH A NEW OR REFURBISHED LAMP UNIT WITHOUT CHARGE TO YOU. LABOR CHARGES FOR LAMP UNIT REPLACEMENT ARE YOUR RESPONSIBILITY AND ARE NOT COVERED UNDER THIS WARRANTY. The lamp unit is a user-replaceable component.

Rental Units

The warranty for DLP™ 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 DLP[™] Televisions, including the lamp units contained therein, 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

Read this owner's manual thoroughly before operating this DLP™ television.

Complete and mail the enclosed product registration card or register your DLP[™] Television online at **www.tacp.toshiba.com/service** as soon as possible. By registering your DLP[™] 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 Consumer Product Safety Act. Failure to register your product 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 DLP[™] Television must be performed by an Authorized TACP Service Station.
- (3) The warranties from TACP are effective only if this DLP[™] 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 IEEE1394 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 DLPTM Television or parts that have been lost or discarded by you or to damage to the DLPTM 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 DLPTM 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 titled "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 1-800-631-3811.
- (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 web site: www.tacp.toshiba.com.

ALL WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A., INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THE LIMITED WARRANTIES SET FORTH ABOVE. WITH THE EXCEPTION OF ANY WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A. AS HEREBY LIMITED, THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, AGREEMENTS, AND SIMILAR OBLIGATIONS OF TACP WITH RESPECT TO THE REPAIR OR REPLACEMENT OF ANY PARTS. IN NO EVENT SHALL TACP BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, BUSINESS INTERRUPTION, OR MODIFICATION OR ERASURE OF RECORDED DATA CAUSED BY USE, MISUSE OR INABILITY TO USE THIS DLP™ TELEVISION).

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. 05



Limited Canada Warranty

for DLP™ Television Models

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

THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS DLP™ TELEVISION AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE. PRODUCTS PURCHASED IN THE U.S.A. AND USED IN CANADA ARE NOT COVERED BY THESE WARRANTIES.

PRODUCTS PURCHASED IN CANADA AND USED IN THE U.S.A. ARE NOT COVERED BY THESE WARRANTIES.

Limited One (1) Year Warranty on Parts and Labor*

TCL warrants this DLP™ television 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, 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. TCL Authorized Service Depot personnel will come to your home when warranty service is required. Depending on the type of repair required, either the service will be performed in your home or the set will be taken to the 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.

Limited One (1) Year Warranty on Lamp Unit*

TCL warrants the lamp unit in this DLP™ television 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, EXCHANGE A DEFECTIVE LAMP UNIT WITH A NEW OR REFURBISHED LAMP UNIT WITHOUT CHARGE TO YOU. LABOR CHARGES FOR LAMP UNIT REPLACEMENT ARE NOT COVERED UNDER WARRANTY. The lamp unit is a user-replaceable component.

Rental Units

The warranty for rental units, including the lamp units contained therein, begins with the date of first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

*Limited Warranty for Commercial Units

TCL warrants DLPTM televisions, including the lamp units contained therein, 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 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. ON-SITE SERVICE ONLY APPLIES WITHIN 100 KILOMETERS OF AN AUTHORIZED TCL SERVICE DEPOT.

Owner's Manual and Product Registration

Read this owner's manual thoroughly before operating this DLP™ television

Register your product online at www.toshiba.ca as soon as possible. By registering your product you will enable TCL 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 Consumer Product Safety Act. Failure to register your product 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.
 - All warranty servicing of this DLP™ television must be performed by (2)an Authorized TCL Service Depot.
 - (3) These warranties from TCL are effective only if the DLP™ television 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.
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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.
- Present your bill of sale or other proof of purchase to the Authorized (2) Service Depot

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

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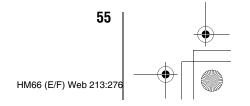
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