TOSHIBA



OWNER'S MANUAL

Projection Television

COLOR STREAM® SRS () Touch Focus™

46H83 51H83 57H83 65H83



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: Serial No.:

Dear Customer,

Thank you for purchasing this Toshiba TV. This manual will help you use the many exciting features of your new TV. **Before operating the TV, please read this manual completely**, and keep it nearby for future reference.

Safety Precautions

WARNING

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



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

The lightning symbol in the triangle tells you that the voltage inside this product may be strong enough to cause an electric shock. DO NOT TRY TO SERVICE THIS PRODUCT YOURSELF.

The exclamation mark in the triangle tells you that important operating and maintenance instructions follow this symbol.

NOTE TO CATV INSTALLERS IN THE USA

This is a reminder to call the CATV system installer's attention to Article 820-40 of the NEC, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical. For additional antenna grounding information, see items 25 and 26 on page 4.

NOTICE OF POSSIBLE TV STAND INSTABILITY

DANGER: RISK OF SERIOUS PERSONAL INJURY OR DEATH! Use this TV with the TOSHIBA TV stand recommended in the "Specifications" section only. Use with other stands may result in instability, causing possible injury or death.

NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

If a fixed (non-moving) pattern remains on the TV screen for long periods of time, the image can become permanently engrained in the picture tube. **This type of damage is NOT COVERED BY YOUR WARRANTY.** See item 33 on page 4.



ENERGY STAR® qualified TV. Products that earn the ENERGY STAR prevent green house gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy. ENERGY STAR and the ENERGY STAR mark are registered U.S. marks.

Child Safety

It Makes A Difference Where Your TV Stands



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

The Issue

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

Toshiba Cares!

The consumer electronics industry is committed to making home entertainment enjoyable and safe.

□ The Consumer Electronics Association formed the Home Entertainment Support Safety Committee, comprised of TV and consumer electronics furniture manufacturers, to advocate children's safety and educate consumers and their families about television safety.

Tune Into Safety

One size does NOT fit all! Use appropriate furniture large enough to support the weight of your TV (and other electronic components).

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



0104

2500 Wilson Blvd. Arlington, VA 22201 U.S.A. Tel. 703-907-7600 Fax 703-907-7690 www.CE.org *CEA is the Sponsor, Producer and Manager of the International CES*®

Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.

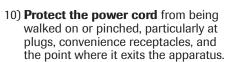
6) Clean only with a dry cloth.

- 7) **Do not block any ventilation** openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



9) Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has

two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.





Wide plug

- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.



14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



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

Installation, Care, and Service

Installation

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

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

17)

DANGER: RISK OF SERIOUS PERSONAL INJURY, DEATH, OR EQUIPMENT

DAMAGE! Never place the TV on an unstable cart, stand, or table. The TV may fall, causing serious personal injury, death, or serious damage to the TV.



18) Never place or store the TV in direct sunlight; hot, humid areas; areas subject to excessive dust or vibration; or locations with temperatures at or below 41°F (5°C).



- 19) Always place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit.
- 20) Never place items such as vases, aquariums, or candles on top of the TV.



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

The slots and openings are provided to protect the TV from overheating and to help maintain reliable operation of the TV.





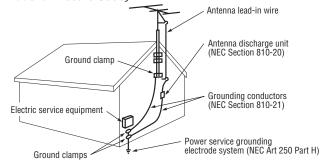
- 22) Never allow anything to rest on or roll over the power cord, and never place the TV where the power cord is subject to wear or abuse.
- 23) Never overload wall outlets and extension cords.



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



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



26) DANGER: RISK OF SERIOUS PERSONAL INJURY OR DEATH!

• Use extreme care to make sure you are never in a position where your body (or any item you are in contact with, such as a ladder or screwdriver) can accidentally touch overhead power lines. Never locate the antenna near overhead power lines or other electrical circuits.

Never attempt to install any of the following during lightning activity:

a) an antenna system; or b) cables, wires, or any home theater component connected to an antenna or phone system.

Care

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

- 27) Always sit approximately 10–25 feet away from the TV and as directly in front of it as possible. The picture can appear dull if you sit too far to the left or right of the TV, or if sunlight or room lights reflect on the screen. Turn the TV off to check for reflections on the screen, and then remove the source of reflections while viewing the TV.
- 28) Always unplug the TV before cleaning. Never use liquid or aerosol cleaners.



WARNING: RISK OF ELECTRIC SHOCK!

Never spill liquids or push objects of any kind into the TV cabinet slots.

- 30) [*This item applies to projection TVs only*.] If the air temperature rises suddenly (for example, when the TV is first delivered), condensation may form on the lenses. This can make the picture appear distorted or the color appear faded. If this happens, turn off the TV for 6 to 7 hours to allow the condensation to evaporate.
- 31) For added protection of your TV from lightning and power surges, always unplug the power cord and disconnect the antenna from the TV if you leave the TV unattended or unused for long periods of time.
- 32) During normal use, the TV may make occasional snapping or popping sounds. This is normal, especially when the unit is being turned on or off. If these sounds become frequent or continuous, unplug the power cord and contact a Toshiba Authorized Service Center.
- 33) Possible Adverse Effects on TV Picture Tube: If a fixed (non-moving) pattern remains on the TV screen for long periods of time, the image can become permanently engrained in the picture tube and cause subtle but permanent ghost images. This type of damage is NOT COVERED BY YOUR WARRANTY. Never leave your TV on for long periods of time while it is displaying the following formats or images:
 - **Fixed Images**, such as PIP/POP windows, stock tickers, video game patterns, TV station logos, and websites.
 - **Special Formats** that do not use the entire screen. For example, viewing letterbox style (16:9) media on a normal (4:3) display (gray bars at top and bottom of screen); or viewing normal style (4:3) media on a widescreen (16:9) display (gray bars on left and right sides of screen).

Service

34) WARNING: RISK OF ELECTRIC

SHOCK! Never attempt to service the TV yourself. Opening and

removing the covers may expose you to dangerous voltage or other hazards. Refer all servicing to a Toshiba Authorized Service Center.



35) If you have the TV serviced:

- Ask the service technician to use only replacement parts specified by the manufacturer.
- Upon completion of service, ask the service technician to perform routine safety checks to determine that the TV is in safe operating condition.



36) When the TV reaches the end of its useful life, ask a qualified service technician to properly dispose of the TV. Improper disposal may result in a picture tube implosion and possible personal injury.

29)

Important Safety Precautions for Split Cabinet Feature (Models 57H83 and 65H83 only)

Toshiba TV models 57H83 and 65H83 have a split cabinet feature that allows disassembly of the cabinet into two sections during installation.

For details, please refer to the insert titled "Disassembly/ Reassembly Instructions for Split Cabinet Feature" that accompanied this owner's manual in the accessory pack. If you do not have the insert, you can download a copy of it from our Web site (www.toshiba.com/tacp in the U.S.A. or www.toshiba.ca in Canada). If you do not have access to the Internet, call 1-800-631-3811 in the U.S.A. or 1-800-268-3404 in Canada.



WARNING: If you split the cabinet for any purpose, NEVER energize the bottom section until it is completely and properly installed. Energizing the disassembled bottom section and

subjecting it to intentional misuse (for example, exposing it to a foreign object) creates the potential for an electrical shock hazard that could result in death or serious injury.

CAUTION: If you use the split cabinet feature, ALWAYS handle and treat the top section of the TV cabinet, which contains a glass mirror, with great care. If subjected to excessive mechanical abuse (for example, if bumped or dropped), the mirror may break, creating exposed glass fragments with sharp edges. Contact with these glass fragments may result in injury.

Installation, Care, and Service

CAUTION: The split cabinet feature (models 57H83 and 65H83 only) allows disassembly of the cabinet into two sections during installation. If you use the split cabinet feature, follow these precautions while the two sections of the TV cabinet are disassembled:

- Always handle and treat the top section of the TV cabinet (with the viewing screen), which contains a glass mirror, with great care. If subjected to excessive mechanical abuse (for example, if bumped or dropped), the mirror may break, creating exposed glass fragments with sharp edges. Contact with these glass fragments may result in injury.
- 2) Never temporarily locate the disassembled bottom section in an area where it may be exposed to foreign objects or abuse (for example, areas where children may be playing, where items may fall on top of the unit, or where liquids may spill into the unit). Failure to follow this instruction may result in damage to the optic components of the TV. SUCH DAMAGE IS NOT COVERED UNDER THE TOSHIBA LIMITED WARRANTY.
- 3) Always keep the top and bottom sections of the TV cabinet in an upright position while disassembled. Failure to follow this instruction may result in damage to the TV, including but not limited to the optic components, cabinet, bezel, and glass mirror. SUCH DAMAGE IS NOT COVERED UNDER THE TOSHIBA LIMITED WARRANTY.
- 4) Never energize the bottom section of the TV cabinet while disassembled. Failure to follow this instruction could result in death or serious injury.
- Never place anything on top of the disassembled bottom section of the TV cabinet. Failure to follow this instruction may result in damage to the optic components. SUCH DAMAGE IS NOT COVERED UNDER THE TOSHIBA LIMITED WARRANTY.
- 6) Never store or transport the unit while it is disassembled. Failure to follow this instruction may result in damage to the TV, including but not limited to the optic components, cabinet, bezel, and glass mirror. SUCH DAMAGE IS NOT COVERED UNDER THE TOSHIBA LIMITED WARRANTY.

Important Safety Information 2-	5
Introduction	7
Welcome to Toshiba	7
Exploring your new TV	7
Note regarding Quick Connect Guide	7
Connecting your TV	
Connecting a VCR	
Connecting a cable converter box	
Connecting a cable converter box and VCR	
Connecting a DVD player or satellite receiver and a VCR	
Connecting a DVD player with ColorStream®	Ő
(component video) and a VCR	1
Connecting a DTV receiver/set-top box with	
ColorStream [®] (component video) and a VCR 1	2
Connecting two VCRs 1	
Connecting a camcorder 1	
Connecting a device to the DVI/HDCP input 1	
Connecting an audio system 1	
Connecting an A/V receiver 1	
Using the remote control 10	6
Preparing the remote control for use 1	
Installing the remote control batteries 1	
Programming the remote control to operate a cable	
converter box, satellite receiver, VCR, DVD player,	
or HTIB (home theater in a box) 1	7
Remote control codes	8
Using the remote control to operate a cable converter	
box, satellite receiver, VCR, DVD player, or HTIB	
(home theater in a box) 1	9
Learning about the remote control	0
Learning about the remote control	
-	1
Setting up your TV 2	1
Setting up your TV	1 1
Setting up your TV 2 Learning about the menu system 2 Changing the on-screen display language 2	1 1 2
Setting up your TV 2 Learning about the menu system 2 Changing the on-screen display language 2 Selecting the antenna input 2	1 2 2 3
Setting up your TV 2 Learning about the menu system 2 Changing the on-screen display language 2 Selecting the antenna input 2 Adding channels to the TV's memory 2 Programming channels automatically 2 Adding and erasing channels manually 2	1 22 33 33
Setting up your TV 2 Learning about the menu system 2 Changing the on-screen display language 2 Selecting the antenna input 2 Adding channels to the TV's memory 2 Programming channels automatically 2	1 22 33 33
Setting up your TV 2 Learning about the menu system 2 Changing the on-screen display language 2 Selecting the antenna input 2 Adding channels to the TV's memory 2 Programming channels automatically 2 Adding and erasing channels manually 2	1 2 3 3 3 4
Setting up your TV 2 Learning about the menu system 2 Changing the on-screen display language 2 Selecting the antenna input 2 Adding channels to the TV's memory 2 Programming channels automatically 2 Adding and erasing channels manually 2 Using the Quick Connect Guide 2	1 12233345
Setting up your TV 2 Learning about the menu system 2 Changing the on-screen display language 2 Selecting the antenna input 2 Adding channels to the TV's memory 2 Programming channels automatically 2 Adding and erasing channels manually 2 Using the Quick Connect Guide 2 Changing channels using SpeedSurf 2 Adjusting the color convergence 2	1 122333455
Setting up your TV 2 Learning about the menu system 2 Changing the on-screen display language 2 Selecting the antenna input 2 Adding channels to the TV's memory 2 Programming channels automatically 2 Adding and erasing channels manually 2 Using the Quick Connect Guide 2 Changing channels using SpeedSurf 2 Adjusting the color convergence 2 Automatically adjusting the color convergence 2	1 2 2 3 3 3 4 5 5 5
Setting up your TV 2 Learning about the menu system 2 Changing the on-screen display language 2 Selecting the antenna input 2 Adding channels to the TV's memory 2 Programming channels automatically 2 Adding and erasing channels manually 2 Using the Quick Connect Guide 2 Changing channels using SpeedSurf 2 Adjusting the color convergence 2 Automatically adjusting the color convergence 2 Quick Focus TM 2	1 1223334555 5
Setting up your TV 2 Learning about the menu system 2 Changing the on-screen display language 2 Selecting the antenna input 2 Adding channels to the TV's memory 2 Programming channels automatically 2 Adding and erasing channels manually 2 Using the Quick Connect Guide 2 Changing channels 2 Changing channels using SpeedSurf 2 Adjusting the color convergence 2 Automatically adjusting the color convergence 2 Manually adjusting the color convergence 2	1 2 2 3 3 3 4 5 5 5 5 6
Setting up your TV 2 Learning about the menu system 2 Changing the on-screen display language 2 Selecting the antenna input 2 Adding channels to the TV's memory 2 Programming channels automatically 2 Adding and erasing channels manually 2 Using the Quick Connect Guide 2 Changing channels using SpeedSurf 2 Adjusting the color convergence 2 Automatically adjusting the color convergence 2 Manually adjusting the color convergence 2 Using the TV's features 2	1 1 2 2 3 3 3 4 5 5 5 5 6 7
Setting up your TV 2 Learning about the menu system 2 Changing the on-screen display language 2 Selecting the antenna input 2 Adding channels to the TV's memory 2 Programming channels automatically 2 Adding and erasing channels manually 2 Using the Quick Connect Guide 2 Changing channels using SpeedSurf 2 Adjusting the color convergence 2 Automatically adjusting the color convergence 2 Manually adjusting the color convergence 2 Majusting the channel settings 2	1 1 2 2 3 3 3 4 5 5 5 5 6 7
Setting up your TV 2 Learning about the menu system 2 Changing the on-screen display language 2 Selecting the antenna input 2 Adding channels to the TV's memory 2 Programming channels automatically 2 Adding and erasing channels manually 2 Using the Quick Connect Guide 2 Changing channels using SpeedSurf 2 Adjusting the color convergence 2 Automatically adjusting the color convergence 2 Manually adjusting the color convergence 2 Manually adjusting the color convergence 2 Manually adjusting the color convergence 2 Switching between two channels using Channel 2	1 1 2 2 3 3 3 4 5 5 5 5 6 7 7
Setting up your TV 2 Learning about the menu system 2 Changing the on-screen display language 2 Selecting the antenna input 2 Adding channels to the TV's memory 2 Programming channels automatically 2 Adding and erasing channels manually 2 Using the Quick Connect Guide 2 Changing channels using SpeedSurf 2 Adjusting the color convergence 2 Automatically adjusting the color convergence 2 Manually adjusting the color convergence 2 Manually adjusting the color convergence 2 Manually adjusting the color convergence 2 Switching between two channels using Channel 2 Return 2 2	1 1 2 2 3 3 3 4 5 5 5 5 6 7 7
Setting up your TV 2 Learning about the menu system 2 Changing the on-screen display language 2 Selecting the antenna input 2 Adding channels to the TV's memory 2 Programming channels automatically 2 Adding and erasing channels manually 2 Using the Quick Connect Guide 2 Changing channels using SpeedSurf 2 Adjusting the color convergence 2 Automatically adjusting the color convergence 2 Manually adjusting the color convergence 2 Manually adjusting the color convergence 2 Manually adjusting the color convergence 2 Switching between two channels using Channel 2 Switching between two channels using 2	1 1222 1333 1333 1455 155 155 156 7 7 7
Setting up your TV 2 Learning about the menu system 2 Changing the on-screen display language 2 Selecting the antenna input 2 Adding channels to the TV's memory 2 Programming channels automatically 2 Adding and erasing channels manually 2 Using the Quick Connect Guide 2 Changing channels using SpeedSurf 2 Adjusting the color convergence 2 Automatically adjusting the color convergence 2 Manually adjusting the color convergence 2 Manually adjusting the color convergence 2 Switching between two channels using Channel 2 Switching between two channels using 2 Switching between two channels using 2	1 1222 333 344 555 556 7 7 7 7 7
Setting up your TV 2 Learning about the menu system 2 Changing the on-screen display language 2 Selecting the antenna input 2 Adding channels to the TV's memory 2 Programming channels automatically 2 Adding and erasing channels manually 2 Using the Quick Connect Guide 2 Changing channels using SpeedSurf 2 Adjusting the color convergence 2 Automatically adjusting the color convergence 2 Manually adjusting the color convergence 2 Manually adjusting the color convergence 2 Switching between two channels using Channel 2 Return 2 Switching between two channels using 2 SurfLockT ^M 2 Programming your favorite channels 2	1 1222 333 4555 56 7 7 7 7 7
Setting up your TV 2 Learning about the menu system 2 Changing the on-screen display language 2 Selecting the antenna input 2 Adding channels to the TV's memory 2 Programming channels automatically 2 Adding and erasing channels manually 2 Using the Quick Connect Guide 2 Changing channels 2 Changing channels using SpeedSurf 2 Adjusting the color convergence 2 Automatically adjusting the color convergence 2 Manually adjusting the color convergence 2 Manually adjusting the color convergence 2 Switching between two channels using Channel 2 Return 2 Switching between two channels using 2 SurfLock TM 2 Programming your favorite channels 2 Labeling channels 2	1 1222 333 4555 56 7 7 7 7 7
Setting up your TV 2 Learning about the menu system 2 Changing the on-screen display language 2 Selecting the antenna input 2 Adding channels to the TV's memory 2 Programming channels automatically 2 Adding and erasing channels manually 2 Using the Quick Connect Guide 2 Changing channels 2 Changing channels using SpeedSurf 2 Adjusting the color convergence 2 Automatically adjusting the color convergence 2 Manually adjusting the color convergence 2 Manually adjusting the color convergence 2 Switching between two channels using Channel 2 Return 2 Switching between two channels using SurfLock TM 2 Programming your favorite channels 2 Viewing the wide-screen picture formats (480i and	1 1 2 2 3 3 3 4 5 5 5 5 6 7 7 7 7 9
Setting up your TV 2 Learning about the menu system 2 Changing the on-screen display language 2 Selecting the antenna input 2 Adding channels to the TV's memory 2 Programming channels automatically 2 Adding and erasing channels manually 2 Using the Quick Connect Guide 2 Changing channels 2 Changing channels using SpeedSurf 2 Adjusting the color convergence 2 Automatically adjusting the color convergence 2 Manually adjusting the color convergence 2 Manually adjusting the color convergence 2 Switching between two channels using Channel 2 Return 2 Switching between two channels using SurfLock TM 2 Programming your favorite channels 2 Viewing the wide-screen picture formats (480i and 480p signals only)	1 1223333455555566 7 7779 0
Setting up your TV 2 Learning about the menu system 2 Changing the on-screen display language 2 Selecting the antenna input 2 Adding channels to the TV's memory 2 Programming channels automatically 2 Adding and erasing channels manually 2 Using the Quick Connect Guide 2 Changing channels 2 Changing channels using SpeedSurf 2 Adjusting the color convergence 2 Automatically adjusting the color convergence 2 Manually adjusting the color convergence 2 Manually adjusting the color convergence 2 Switching between two channels using Channel 2 Return 2 Switching between two channels using SurfLock TM 2 Programming your favorite channels 2 Viewing the wide-screen picture formats (480i and	1 1223333455555566 7 7779 0
Setting up your TV 2 Learning about the menu system 2 Changing the on-screen display language 2 Selecting the antenna input 2 Adding channels to the TV's memory 2 Programming channels automatically 2 Adding and erasing channels manually 2 Using the Quick Connect Guide 2 Changing channels 2 Changing channels using SpeedSurf 2 Adjusting the color convergence 2 Automatically adjusting the color convergence 2 Manually adjusting the color convergence 2 Manually adjusting the color convergence 2 Switching between two channels using Channel 2 Return 2 Switching between two channels using 2 Switching between two channels using 2 Viewing the wide-screen picture formats (480i and 480p signals only) 3 Selecting the picture size 3 3	1 1 2 2 3 3 3 3 4 5 5 5 5 5 5 6 7 7 7 7 7 7 9 0 0 2 2 3 3 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5

Using the POP double-window feature
Switching the main and POP pictures
Freezing the POP picture
Adjusting the size of the double-window
POP double-window aspect ratio
Using the programmed channel search function
Using the favorite channel search function
About the auto favorite feature
Using the LOCKS menu
Entering the PIN code
If you cannot remember your PIN code
Using the V-CHIP menu
ENABLE BLOCKING
TV RATING (Independent rating system for
broadcasters)
MPAA RATING (Independent rating system for
movies)
BLOCKING OPTION
Unlocking programs temporarily
Locking channels
Locking video inputs 42
Using the game timer
Using the front panel lock feature
Changing the PIN code
Adjusting the picture
Selecting the picture mode
Adjusting the picture quality
Saving your new preferences
Using the ALS (Ambient Light Sensor) feature 45
Using the flesh tone feature
Using the CableClear™ DNR feature
Selecting the color temperature
Selecting the display format (480p signals only) 47
Resetting your picture adjustments
Selecting the cinema mode
Selecting the video input source 48
Labeling the video input sources
Using the closed caption feature
Setting the ON timer
Setting the sleep timer
Setting the clock
Adjusting the sound
Muting the sound
Selecting stereo/SAP broadcasts
Using the WOW TM surround sound feature
Adjusting the sound quality
Resetting your audio adjustments
Using the sub-bass system (SBS)
Turning off the built-in speakers 55
Selecting the Audio OUT sound 55
Using the StableSound® feature
Selecting the background of the menu display 56
Displaying on-screen information 56
Viewing the demo mode
Understanding the auto power off feature
Understanding the last mode memory feature
Appendix
Specifications
Troubleshooting
Limited United States Warranty
Limited Canada Warranty 61
Index 63

Introduction

Welcome to Toshiba

Congratulations! You have purchased one of the finest projection TVs on the market. The goal of this manual is to guide you through setting up and operating your Toshiba TV as quickly as possible.

This manual applies to models 46H83, 51H83, 57H83, and 65H83. Before you start reading, check the model and serial numbers on the back of your TV. Write these numbers in the space provided on the front cover of this manual for your records.

Instructions in this manual are based on using the remote control. You can also use the controls on the TV if they have the same name as those on the remote control.

Please read all the safety and operating instructions carefully, and keep the manual for future reference.

Exploring your new TV

You can operate your TV using the buttons on the front panel or the remote control. The back panel and front panel (behind the door) provide all the terminal connections you will need to connect other equipment to your TV. See "Connecting your TV" on pages 8-15. Illustrations represent 57H83.

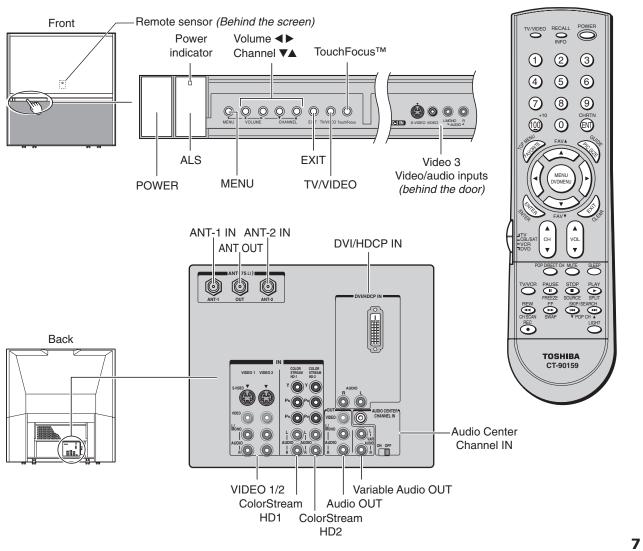
Note regarding **Quick Connect Guide**

The Quick Connect Guide automatically appears on-screen the first time the TV is turned on. This feature provides on-screen instructions to guide you through initial setup of your TV.

To stop the Quick Connect Guide, either press EXIT or turn off the TV.

Remote control

See page 24 for details.



Connecting your TV

Note: Cables are not supplied with your TV.

- **Coaxial cable** is the cable that comes in from your antenna, cable TV service, or cable converter box. Coaxial cable uses "F" connectors.
- Standard A/V (audio/video) cables usually come in sets of three, and are typically color-coded according to use: yellow for video, red for stereo right audio, and white for stereo left (or mono) audio. On your TV's back panel, the standard A/V inputs are color-coded in the same manner as the cables.
- S-Video cable is for use with video equipment that has an S-Video input.
- **Component video cables** come in sets of three, and are for use with video equipment that has component video inputs. (ColorStream[®] is Toshiba's brand of component video.)
- **DVI-D digital single-link cable** is for use with video equipment that has a DVI-D digital single-link connector (see page 14).

NOTE REGARDING PICTURE QUALITY

When connecting video equipment to your Toshiba TV:

- For GOOD picture quality: Use a standard yellow video cable.
- For BETTER picture quality: If your equipment has an S-video input, use an S-video cable instead of a standard yellow video cable. (You still must connect the standard red and white audio cables for full system connection, but *do not connect the standard yellow video cable at the same time*, or the picture performance will be unacceptable.)
- For BEST picture quality: If your equipment has component video (or DVI) inputs, use either component video cables (or a DVI cable) instead <u>of</u> a standard video or S-video cable. (You still must connect the standard red and white audio cables for full system connection, but *do not connect the standard yellow video cable or an S-Video cable at the same time.*)

Connecting a VCR

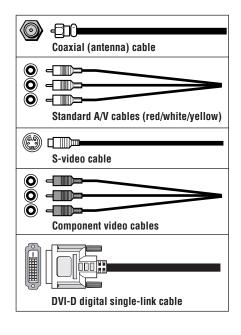
This connection allows you to watch local channels and video programs, play or record on the VCR while watching TV, and record from one channel while watching another channel.

You will need:

- two coaxial cables
- one set of standard A/V cables

From Cable Box or Antenna

Stereo VCR



CAUTION:

Do not plug in any power cords until you have finished connecting all equipment.

Note:

If you have a mono VCR, connect L/Mono to VCR Audio OUT using only one audio cable.

If you have a VCR with S-video, use an S-video cable (in the S-video jacks) instead of the standard video cable.

Do not connect a standard video cable and an S-video cable to Video-1 (or Video-2) at the same time, or the picture performance will be unacceptable.

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

8

Connecting vour TV

Setting up vour TV

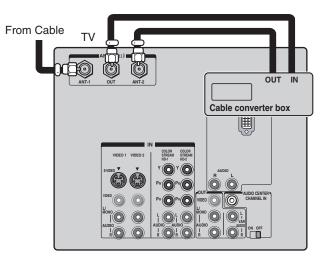
Appendi

Connecting a cable converter box

This connection allows you to watch basic and premium cable channels. To watch basic cable and use the TV's features, select ANT-1. To view premium channels, select ANT-2, tune the TV to channel 3 or 4 (whichever channel is vacant in your area), and use the converter box to change channels.

You will need:

• three coaxial cables



Connecting a cable converter box and VCR

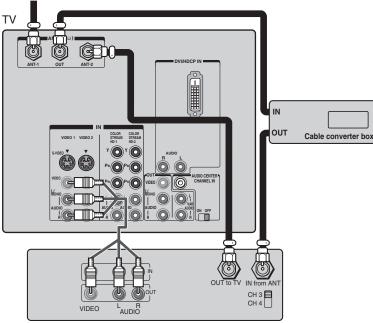
This connection allows you to watch and record basic and premium cable channels, watch videotapes, and record one channel while watching another channel. To watch basic cable and use the TV's features, select ANT-1.

To view premium channels or record with the VCR, select ANT-2, tune the TV to channel 3 or 4 (whichever channel is vacant in your area), and use the converter box to change channels.

You will need:

- four coaxial cables
- one set of A/V cables





Note:

When you use a converter box with your TV, the remote control will not operate some features, such as programming your favorite channels, labeling channels, and locking channels.

Stereo VCR

Note:

If you have a mono VCR, connect L/Mono to VCR Audio OUT using only one audio cable.

If you have a VCR with S-video, use an S-video cable (in the S-video jacks) instead of a standard video cable. Do not connect a standard video cable and an S-video cable to Video-1 (or Video-2) at the same time, or the picture performance will be unacceptable.

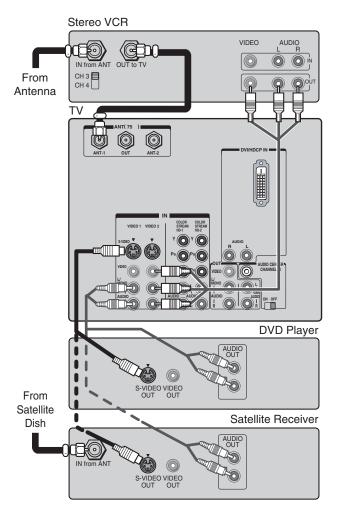
When you use a converter box with your TV, the remote control will not operate some features, such as programming your favorite channels, labeling channels, and locking channels.

Connecting a DVD player or satellite receiver and a VCR

This connection allows you to watch DVD/satellite, VCR, and TV programs, and record one TV channel while watching another channel.

You will need:

- two coaxial cables (three if satellite receiver is used)
- one set of standard A/V cables
- one pair of audio cables
- one S-video cable (between the TV and DVD player/satellite receiver)



Note:

For the highest possible picture quality from a DVD player or satellite receiver without component video or DVI/HDCP, use an S-video cable. (If your DVD player has component video, see page 11. If your satellite receiver has component video, see page 12. If your DVD plaer or satellite receiver has DVI/HDCP, see page 14.)

Do not connect both an S-video cable and a standard video cable between the TV and DVD player/satellite receiver at the same time or the picture performance will be unacceptable.

Do not connect the DVD player/satellite receiver and VCR to the same video channel on the TV. (See the illustrations, which show the DVD player/satellite receiver connected to Video-1 on the TV, and the VCR connected to Video-2 on the TV.)

Connecting a DVD player with ColorStream[®] (component video) and a VCR

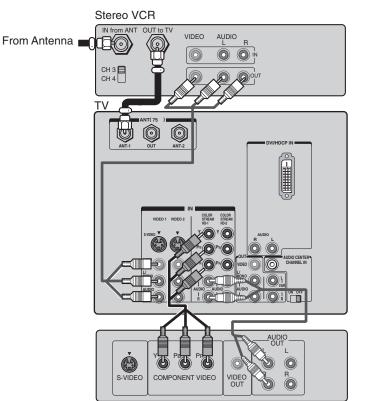
This connection allows you to watch DVD, VCR, and TV programs, and record TV programs.

Your TV has ColorStream[®] (component video) inputs. Connecting your TV to a DVD player with component video inputs (such as a Toshiba DVD player with ColorStream[®]) can greatly enhance picture quality and realism.

- To record one TV program while watching another TV program, tune the VCR to the channel to record, and tune the TV to the channel to watch.
- To record a TV program while watching a DVD, tune the VCR to the channel to record, and select ColorStream HD1 on the TV (see "Selecting the antenna input" on page 22).

You will need:

- two coaxial cables
- one set of A/V cables
- one pair of audio cables
- one set of component video cables (one S-video cable for a DVD player without component video inputs; see notes at right)



DVD Player with component video

Note:

For the highest possible picture quality, use component video cables (or a DVI-D digital single-link cable) between the TV and DVD player.

You can connect the component video cables to either set of the ColorStream jacks on the TV (HD1 or HD2).

For DVI/HDCP connection, see page 14.

The ColorStream HD1/HD2 and DVI/HDCP jacks can be used with Progressive (480p, 720p) and Interlaced (480i, 1080i) scan systems; however, a 1080i signal will provide the best picture performance.

If your DVD player is not compatible with component video or DVI/HDCP, use the S-video connections (plus the standard audio connections) instead (see page 10).

Connecting a DTV receiver/set-top box with ColorStream[®] (component video) and a VCR

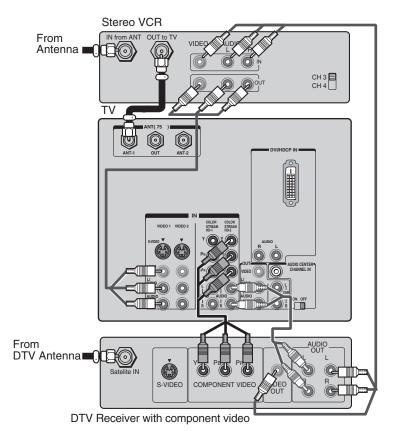
This connection allows you to watch DTV (digital TV), VCR, and TV programs, and record DTV and TV programs.

Your TV has ColorStream (component video) inputs. Connecting your TV to a DTV receiver with component video inputs can greatly enhance picture quality and realism.

- To record and watch a DTV program, select LINE IN on the VCR, and select ColorStream HD2 (or VIDEO 1 for a non-ColorStream connection) on the TV (see "Selecting the antenna input" on page 22).
- To record a TV program while watching a DTV program, tune the VCR to the channel to record, and select ColorStream HD2 on the TV.
- To record and watch the same TV program, tune the VCR to the channel to record, and select VIDEO 1 on the TV.
- To record one TV program while watching another TV program, tune the VCR to the channel to record, and tune the TV to the channel to watch.

You will need:

- three coaxial cables
- two sets of A/V cables
- one pair of audio cables
- one set of component video cables (one S-video cable for a DTV receiver without component video; see notes at right)



Note:

For the highest possible picture quality, use component video cables (or a DVI-D digital single-link cable) between the TV and DTV receiver/set-top box.

You can connect component video cables to either set of ColorStream jacks on the TV (HD1 or HD2).

For DVI/HDCP connection, see page 14.

The ColorStream HD1/HD2 and DVI/HDCP jacks can be used with Progessive (480p, 720p) and Interlaced (480i, 1080i) scan systems; however, a 1080i signal will provide the best picture performance.

If your DTV receiver or set-top box is not compatible with component video or DVI/ HDCP, use the S-video connections (plus the standard audio connections) instead (see page 10).

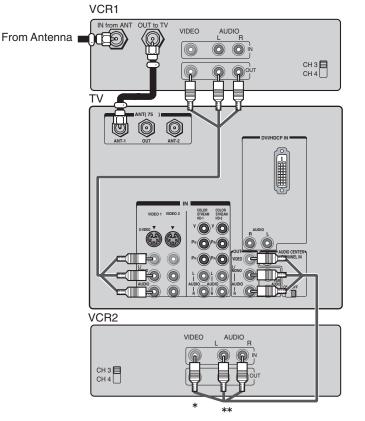
Connecting vour TV

Connecting two VCRs

This connection allows you to record (dub/edit) from one VCR to another VCR while watching a videotape. You can also record from one TV channel while watching another TV channel.

You will need:

- two coaxial cables
- two sets of A/V cables

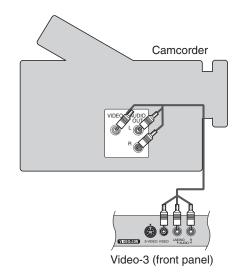


Connecting a camcorder

This connection allows you to watch video materials recorded on a camcorder.

You will need:

• one set of A/V cables



Note:

If you have VCRs with S-video, use S-video cables instead of standard video cables for better picture performance. Do not connect both a standard video cable and an S-video cable to Video-1 (or Video-2) at the same time, or the picture performance will be unacceptable.

Do not connect the same VCR to the output and input jacks on the TV at the same time.

To dub or edit, VCR 2 must select Line IN, and the TV must select VIDEO 1 (see "Selecting the antenna input" on page 22).

- * The Video OUT jack does not output the POP picture.
- ** The Audio OUT jacks can output the sound of either the Main or POP picture (see "Selecting the Audio OUT sound" on page 55).

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

Note:

If you have a camcorder with S-video, use an S-video cable instead of a standard video cable for better picture performance. Do not connect <u>both</u> a standard video cable and an S-video cable at the same time, or the picture performance will be unacceptable.

Connecting a device to the DVI/HDCP¹ input

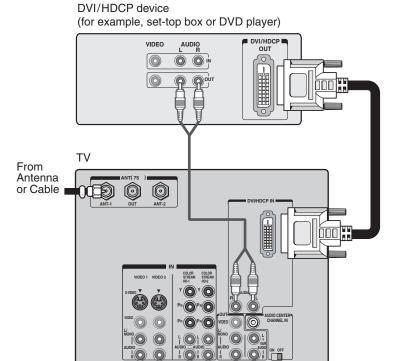
The DVI/HDCP input on your TV is designed to accept HDCP program material in digital form from EIA/CEA-861–compliant² consumer electronic devices, such as a set-top box or DVD player equipped with a DVI-D digital single-link output connection.³

The DVI/HDCP input is designed for best performance with 1080i high-definition video signals. The DVI/HDCP input also will accept and display 480p, 720p, and 480i picture signals.

Note: This TV is not intended for connection to and should not be used with a PC (personal computer).

You will need:

- one coaxial cable
- one DVI-D digital single-link cable **Note:** For proper operation, the DVI-D cable length should not exceed 3m (9.8 ft). The recommended length is 2m (6.6 ft).
- one pair of standard audio cables



Notes:

- ¹ DVI/HDCP = Digital Visual Interface/ High-bandwidth Digital Content Protection.
- ² EIA/CEA-861 compliance covers the transmission of uncompressed digital video with high-bandwidth digital content protection, which is being standardized for future reception of high-definition video signals.
- ³ Consult your consumer electronics dealer for availability.

Caution:

To ensure that the DVI/HDCP device is reset properly, it is recommended that you follow these procedures:

- When turning on your electronic components, turn on the TV first, and then the DVI/HDCP device.
- When turning off your electronic components, turn off the DVI/HDCP device first, and then the TV.

This connection allows you to use an audio amplifier to adjust the audio level. This also allows you to use external speakers.

To control the audio, turn on the TV and the stereo amplifier, and turn off the built-in speakers (see "Turning off the built-in speakers" on page 55).

You will need:

• one pair of audio cables

Note:

To hear sound when using an external audio amplifier, the volume of both the TV and the amplifier must be set above 0 (zero).

For example, if the volume of the TV is set to 0, you will not be able to hear any sound, even the volume of the amplifier is at its highest level.

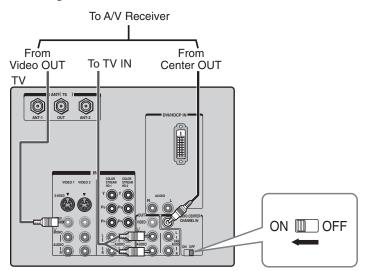
Connecting an A/V receiver

This connection allows you to use an audio/video (A/V) receiver to enhance your TV's sound.

If you have a system with Dolby Pro Logic[®] surround sound, you can add to the realism of the sound by using the TV's internal speakers as center channel speakers.

You will need:

- one set of A/V cables
- one single audio cable for the audio center channel



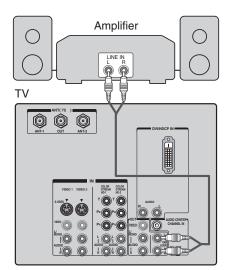
Note:

Refer to the instructions provided with your A/V receiver for details about your surround sound system.

When the Audio Center Channel ON/OFF switch is in the ON position, the TV speakers will function only as center channel speakers. At this time, the SBS feature should be set OFF. See page 54.

Adjust the volume for the center channel speakers using the center level control on the A/V receiver.

To use the TV speakers as normal speakers, set the Audio Center Channel ON/OFF switch to the OFF position.

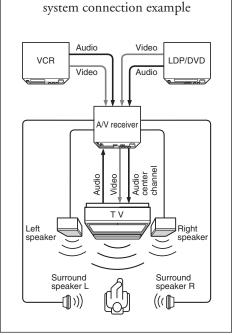


Caution:

To avoid damaging the TV speakers:

- Turn off the TV before connecting or disconnecting the Audio Center Channel cable.
- Do not connect from the A/V receiver's Center Speaker OUT (amplified signal) to the TV's Audio Center Channel IN.

Dolby Pro Logic* surround sound



 Dolby Pro Logic is a registered trademark of Dolby Laboratories Licensing Corporation. ng the rv s eatures

Using the remote control

Preparing the remote control for use

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

If you have a Toshiba device:

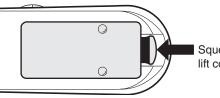
Your TV remote control is preprogrammed to operate most Toshiba devices. See page 19.

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

You can program the TV remote control so it will operate the other device. See pages 17–19.

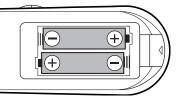
Installing the remote control batteries

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



Squeeze tab and lift cover.

2. Install two "AA" 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:

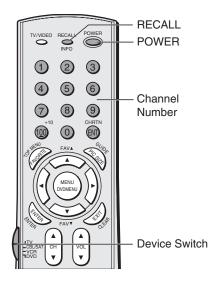
- Dispose of batteries in a designated disposal area. Do not throw batteries into a fire.
- Do not mix battery types or combine used batteries with new ones.
- If the remote control does not operate correctly, or if the operating range becomes reduced, replace both batteries with new ones.
- If the batteries are dead or if you will not use the remote control for a long time, remove the batteries to prevent battery acid from leaking into the battery compartment.

Note:

If your Toshiba TV remote control does not operate all the features of your other device, use the original remote control for that device. 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 19.

- 1. In the remote control code table (below and on the next page), 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 Device Switch to the type of device you are programming the remote control to operate CBL/SAT (for a cable converter box or satellite receiver), VCR (for a VCR or TV/VCR combo), or DVD (for a DVD player or HTIB [home theater in a box]).
- 3. While holding down **RECALL**, press the **Channel Number** buttons to enter the 3-digit code for your device.
- 4. To test the code, turn on the device, point the remote control at it, and press **POWER**. *See notes at right*.
 - 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 Device Switch back to TV to control the TV.
- 6. For future reference, write down the code(s) you used:

DEVICE	CODE	DEVICE	CODE



Note:

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

Remote control codes

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

Cable converter	Hamlin: 093	RCA: 064, 081	U. S. Electronics: 087,	General Instruments:
box	Hitachi: 062, 095, 096	Realistic: 065	096, 098	010, 011, 012, 022,
ABC: 061, 062, 063, 082, 084, 087, 091, 092, 096, 098 Archer: 065, 092, 097,	Jasco: 097 Jerrold: 062, 069, 071, 082, 086, 089, 091, 096 Magnavox: 072, 096	Recoton: 102 Samsung: 077, 090 Scientific Atlanta: 063, 078, 079, 080, 088, 098, 101, 105	United Cable: 082 Universal: 065, 092, 097, 099, 102, 103 Wards: 096	023, 031, 049 Hitachi: 033 Hughes: 033 Hughes Network Systems: 019
099 Cableview: 064, 094 Century: 092 Citizen: 090, 092, 097 Contec: 083, 085, 086, 088, 093, 098 Diamond: 093 Eagle: 091 GE: 061, 062 Gemini: 069, 070, 094 General Instruments: 062, 089, 096	Memorex: 091, 092, 104 Multi Canal: 090 Novavision: 101 Panasonic: 081, 083, 085 Philco: 087 Philips: 066, 067, 068, 070, 072, 073, 074, 075, 091, 092 Pioneer: 076, 077 Proscan: 061, 062 Radio Shack: 092, 097, 000	Sears: 095 Signature: 062 Signature 2000: 096 Sprucer: 081, 085 Starcom: 069, 082, 087, 096, 103, 104 Stargate: 069, 090 Sylvania: 095, 100 TeleView: 090 Texscan: 100 Tocom: 071, 084, 085	Satellite receiver Alphastar: 038, 059 Chaparral: 034 DISH Network: 057 Drake: 020, 040, 044, 046, 050, 053 Echostar: 018, 041, 051 Express Vu: 057 Fujitsu: 027 GE: 008, 009, 013	Intersat: 048 Janeil: 027 JVC: 017, 057 Kenwood: 029 Magnavox: 060 Optimus: 058 Pansat: 036, 052 Primestar: 015, 042 Proscan: 008, 009, 013 Radio Shack: 022, 023, 030
062, 089, 096	099			(Continued)

17

Remote control codes (cont.)

Satellite receiver (cont.) RCA: 008, 009, 013, 016 Realistic: 030 Samsung: 059 Sony: 014, 055 Star Choice: 057 Star Trak: 025, 026, 037, 054 STS: 024 Toshiba: 000, 001, 002, 003, 004, 005, 006, 007, 020, 031, 056 Uniden: 021, 028, 030, 032, 035, 039, 043, 045, 047, 058 Zenith: 027 **TV/VCR Combo** Action: 078 GE: 059, 062 Goldstar: 065 Panasonic: 065 Precision: 078 Quasar: 065 Realistic: 079 Sony: 074 Toshiba: 057 Zenith: 065 **DVD/VCR Combo** Go Video: DVD=087, VCR=081 JVC: DVD=088, VCR=082 RCA: DVD=089, VCR=083 Samsung: DVD=090, VCR=084 Sanyo: DVD=091, VCR=085 Zenith: DVD=092, VCR=086 **DVD** player Aiwa: 006, 015 Apex: 016, 017 BOSE: 097 Broksonic: 018 Clarion: 019 Classic: 020 Daewoo: 021 Denon: 022, 023, 024, 025 Emerson: 026, 027 Fisher: 028 Funai: 027 GE: 001, 029, 030 Go Video: 087

Hitachi: 005, 032, 033, 034,035 JVC: 003, 007, 036, 042,088 Kenwood: 037 Konka: 008, 009 Magnavox: 004, 038 Memorex: 039 Mintek: 040 NAD: 026 Nakamichi: 041 Norcent: 043 Onkyo: 044 Oritron: 058 Panasonic: 010, 045, 046, 047, 048, 049, 050 Philips: 004, 051 Pioneer: 052, 053, 054, 055 Proscan: 001, 056 Qwestar: 057, 058 RCA: 001, 002, 059, 089 Sampo: 060 Samsung: 061, 062, 086, 090 Sansui: 073 Sanyo: 063, 091 Sharp: 064, 067 Sherwood: 074 Sony: 011, 012, 065, 066, 068, 069, 070 Sylvania: 027 Teac: 071 Technics: 072 Techwood: 075 Toshiba: 000, 013, 076, 077,078 Yamaha: 079, 080, 081 Zenith: 014, 082, 092 Portable DVD player Aiwa: 093 Audiovox: 094, 095 Panasonic: 024, 096, 099 RCA: 098

VCR

Admiral: 049 Aiko: 019 Aiwa: 018 Akai: 003, 004, 037, 038, 039, 058, 069 Audiovox: 010 Bell & Howell: 007, 068 Broksonic: 008, 017 Calix: 010 Carver: 026 CCE: 019 Citizen: 009, 010, 011, 012, 013, 014, 015, 019, 057, 073

067

Colortyme: 005 Craig: 009, 010, 016, 061, 065, 079 Curtis Mathes: 001, 005, 009, 012, 014, 040, 048, 053, 056, 057 Daewoo: 011, 013, 015, 017, 018, 019, 057, 078 Daytron: 078 Denon: 063 Dimensia: 001, 048 Electrohome: 010, 020, 065 Emerson: 003, 008, 010, 011, 017, 018, 020, 028, 039, 054, 057, 062, 065, 068, 072 Fisher: 007, 016, 021, 022, 023, 057, 064, 068, 070, 071, 079 Fuji: 004, 041 Funai: 018, 073 Garrard: 018 GE: 001, 002, 009, 040, 042, 048, 056 Go Video: 056, 059, 061,081 Goldstar: 005, 010, 014, 054, 056, 065, 067 Gradiente: 018, 065 Harman Kardon: 005 Hitachi: 024, 025, 035, 037, 042, 063, 070, 080 IBL: 076 JC Penney: 005, 006, 007, 008, 009, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065 Jensen: 024, 025, 037, 050 JVC: 005, 006, 007, 014, 037, 043, 050, 062, 063, 068, 082 Kenwood: 005, 006, 007, 012, 014, 037, 043, 050, 053, 068, 071 Kodak: 010 LG: 010 Llovds: 053, 073, 079 Logik: 061 LXI: 010 Magnasonic: 061, 065, 078 Magnavox: 026, 027, 034, 044, 057, 061, 072 Marantz: 005, 006, 007, 012, 014, 026, 053,

Memorex: 007, 009, 010, 016, 018, 034, 049, 063, 065, 066, 068, 075, 079 MGA: 020, 028, 039 MGN: 056 Minolta: 024, 025, 035, 063 Mitsubishi: 020, 024, 025, 028, 039, 043, 065 Montgomery Ward: 049 Motorola: 049 MTC: 009, 046, 061 Multitech: 009, 012, 018 NEC: 005, 006, 007, 012, 014, 037, 043, 053, 054, 067, 070 Nikko: 010 Noblex: 009 Optimus: 010, 049, 065 Optonica: 031 Orion: 054, 057, 062, 065,068,072 Panasonic: 036, 045, 046, 057, 061, 072, 079 Pentax: 012, 024, 025, 035, 042, 053, 063 Pentex Research: 014 Philco: 026, 027, 063 Philips: 026, 031, 044, 057 Pioneer: 006, 024, 043, 055 Portland: 012, 013, 015 Proscan: 001, 002, 048 Proton: 061 Quasar: 045 Radio Shack: 010, 031, 065 Radio Shack/Realistic: 007, 009, 010, 016, 018, 020, 021, 022, 031,049 Radix: 010 RCA: 001, 002, 003, 009, 024, 025, 029, 035, 040, 042, 045, 048, 055, 056, 063, 071,083 Realistic: 007, 009, 010, 011, 016, 018, 020, 021, 022, 031, 049, 051, 056, 060, 065, 075,079 Ricoh: 047 Runco: 034 Samsung: 009, 011, 038, 056, 073, 084 Sansui: 006, 037, 043, 061

Sanyo: 007, 009, 016, 054, 064, 068, 071, 075, 079, 085 Scott: 008, 011, 017, 028, 030, 057, 065, 072 Sears: 007, 010, 016, 021, 022, 023, 024, 025, 035, 053, 057, 063, 064, 065, 068, 071, 075, 079 Sharp: 013, 020, 031, 049, 051, 060, 066 Shintom: 004, 025, 032, 061 Signature: 049 Signature 2000: 075 Singer: 047, 061 Sony: 004, 032, 033, 041, 052, 058, 070, 074, 076, 077, 080 STS: 035 Sylvania: 018, 026, 027, 028, 044, 072 Symphonic: 018, 050, 051, 053, 073, 079 Tandy: 007 Tashiko: 010 Tatung: 037 Teac: 018, 029, 037 Technics: 036 Teknika: 010, 018, 065 Toshiba: 000, 011, 021, 023, 024, 028, 030, 039, 057, 074, 078, 079 Totevision: 009, 010, 065 Unitec: 073 Unitech: 009 Vector Research: 005, 006, 011, 012, 053 Video Concepts: 005, 006, 011, 012, 039, 053 Wards: 009, 010, 011, 016, 018, 020, 024, 025, 031, 035, 049, 051, 056, 057, 060, 065, 066, 079 White Westinghouse: 073 XR-1000: 018 Yamaha: 005, 006, 007, 014, 037, 053 Zenith: 004, 032, 034, 041, 047, 069, 086

HTIB

Lasonic: 083 Panasonic: 084 Venturer: 085

GPX: 031

<u>Remote Control</u>

Using the remote control to operate a cable converter box, satellite receiver, VCR, DVD player, or HTIB (home theater in a box)

If you have a non-Toshiba device or a Toshiba device that the remote control is not preprogrammed to operate, you must first program the remote control to recognize the device (if you have not already done so). See pages 17 and 18.

To use your TV remote control to operate a:

- cable converter box or satellite receiver, set the **Device Switch** to CBL/SAT.
- VCR, set the Device Switch to VCR.
- DVD player or HTIB, set the **Device 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.

	TV / VIDEO RECALL POWER INFO 1 2 3 4 5 6	 POWER Turns the selected device on and off. INFO (CBL/SAT only) Displays on-screen information.
+10 (DVD only)— Press to directly access DVD chapters higher than 10.	(7) (8) (9) +10 (CHRTN	— Channel Numbers (0-9) Press to directly access channels (as opposed to CH ▲ ▼).
TOP MENU (DVD only)— Accesses a DVD's top menu. ENTER —	RVA CLAR	 GUIDE (CBL/SAT only) Displays channel guide. ▲ ▼ ◀► (DVD only) Press to navigate DVD menus (may not work on some DVD players).
Required by some VCRs and cable converter boxes to change the channel. Device Switch Set to "TV" to control the TV; "CBL/SAT" to control a cable converter box or satellite receiver; "VCR" to control a VCR; "DVD"	FAVY CBL/SAT HVCR HVCR	 CLEAR (DVD only) Press to reset the title and chapter number. CH A V
to control a DVD player or HTIB. PAUSE — Press during play or record mode to pause the picture; press again to restart. TV/VCR (VCR only)—	POP DIRECT CH MUTE SLEEP TV/VCR PAUSE STOP PLAY FREEZE SOURCE SPLIT REW FF SKIP/SEARCH	 ▲ selects the next higher channel; ▼ selects the next lower channel. − PLAY Begins playback of a tape or DVD.
To view one program while recording another, press to select TV mode. REW — Rewinds the tape or DVD. (Press during play mode to view the picture moving rapidly backward.) REC (VCR only)—	CH SCAN REC TOSHIBA	 STOP Stops the tape or DVD. SKIP/SEARCH ►► (DVD only) Skips forward to locate later DVD chapters.
Starts tape recording. FF— Fast-forwards the tape or DVD. (Press during play mode to view the picture moving rapidly forward.)	СТ-90159	 SKIP/SEARCH I (DVD only) Skips back to beginning of current DVD chapter or locates previous chapters.

Point the remote control directly at the device.

Learning about the remote control

The buttons used for operating the TV only are described here.

POWER turns the TV on and off

RECALL displays screen information (page 56)

SLEEP sets the TV to turn off at a specific time (page 50)

TV/VIDEO selects video input source (page 48)

MUTE mutes the sound (page 52)

Device Switch switches between TV, CLB/SAT/VCR, and DVD (Pages 17-19) Set to "TV" to control the TV.

CH (channel) \blacktriangle vccles through programmed channels (page 25)

Channel Numbers (0-9, 100) allow direct access to channels (page 25)

VOL (volume) \blacktriangle **v** adjusts the volume level

CH RTN returns to the memorized channel (page 27)

MENU allows access to on-screen programming menus (page 21)

ENTER sets programmed menu information (page 21)

▲ ▼ ◀ ▶ select or adjust programming menus (page 21)

POP CH \blacktriangle velects the POP (picture-out-picture) channel (page 34)

FAV \blacktriangle vycles through favorite channels (page 28)

- **FAVORITE** allows access to the favorite channel search function (page 37)
- **PIC SIZE** cycles through the five picture sizes: Natural, Theater Wide 1, 2, 3, and Full (page 30)

EXIT exits programming menus (page 21)

SPLIT turns the POP feature on and off (page 34)

SOURCE selects the POP picture source (page 34)

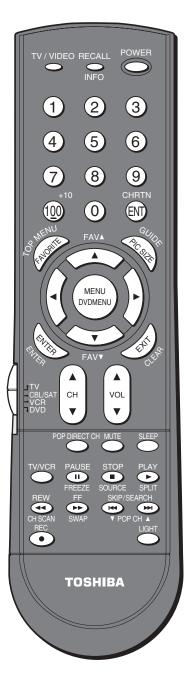
FREEZE freezes the POP picture (page 35)

SWAP switches the main and POP pictures (page 35)

POP DIRECT CH allows direct access to POP channels (page 34)

CH SCAN allows access to the programmed channel search function (page 36)

LIGHT illuminates the keypad for five seconds



Note:

The error message "Not Available" will appear if you press a key for a function that is not available.

Setting up your TV

or remote control.

Learning about the menu system

After you have installed the batteries and programmed the remote control, you will need to set some preferences on the TV using the

menu system. You can access the menu using the buttons on your TV

Connecting

Note regarding

Quick Connect Guide

The Quick Connect Guide

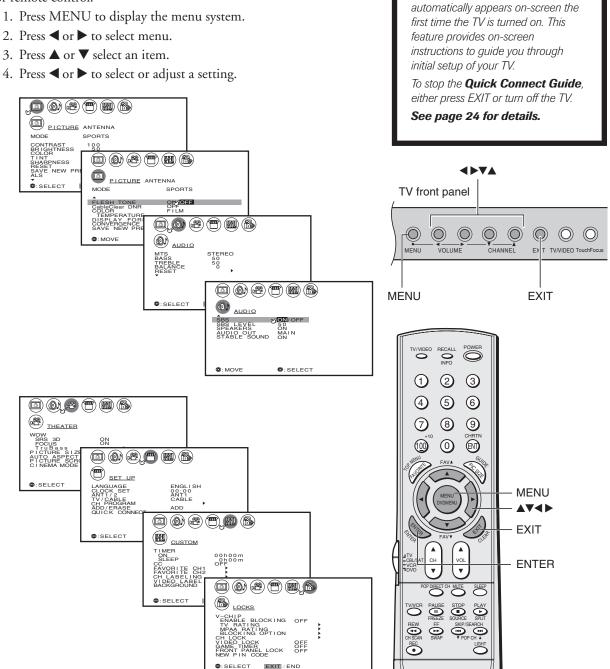
Jsing the note Control

Appendix

Index

Note: You can change the background of the menu. See page 56 for details.

TOSHIBA



- Press ENTER to activate the function settings in the menus.
- The main menu display will disappear automatically if you do not make a selection within 15 seconds. If you want to close all the on-screen displays instantly, press EXIT.

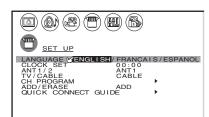
21

Changing the on-screen display language

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

To select a language:

- 1. Press MENU, and then press ◀ or ▶ until the SET UP menu appears.
- 2. Press \blacktriangle or \blacktriangledown to highlight LANGUAGE.



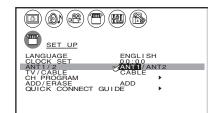
3. Press \blacktriangleleft or \blacktriangleright to highlight your desired language.

Selecting the antenna input

You can connect to two different antenna input sources (ANT 1 or ANT 2).

To select the antenna input using the menu system:

- Press MENU, and then press ◀ or ► to highlight the SET UP menu.
- 2. Press \blacktriangle or \blacksquare to highlight ANT 1/2.



3. Press ◀ or ► to highlight either ANT 1 or ANT 2, depending on the antenna terminal you wish to use.

To select the antenna input using the TV/VIDEO button:

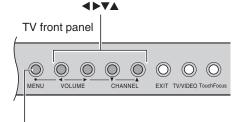
- 1. Press the TV/VIDEO button on the remote control or TV (see illustrations below). The current signal source displays in purple.
- 2. Continue pressing the TV/VIDEO button to select ANT 1 or ANT 2.



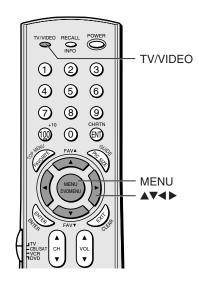
Pressing TV/VIDEO on the remote control <u>displays</u> the current signal source (press TV/VIDEO again or 0-7 to <u>change</u>)



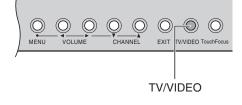
Pressing TV/VIDEO on the TV <u>changes</u> the current signal source



MENU



TV front panel



```
Please note the following regarding
the DVI source selection:
This TV is not intended for connection
to and should not be used with a PC
(personal computer). See "Connecting
a device to the DVI/HDCP input" on
page 14 for details.
```

Connecting vour TV

Adding channels to the TV's memory

When you press Channel \blacktriangle or \bigtriangledown , your TV will stop only on the channels stored in the TV's channel memory.

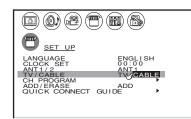
Follow the steps below and on the next page to program all active channels into the TV's memory.

Programming channels automatically

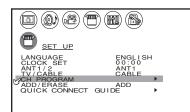
Your TV can automatically detect all active channels in your area and store them in its memory. After the channels are stored automatically, you can manually add or erase individual channels (see page 24).

To program channels automatically:

- 1. Press MENU, and then press ◀ or ► until the SET UP menu appears.
- 2. Press \blacktriangle or \blacktriangledown until the TV/CABLE is highlighted.
- 3. Press ◀ or ► to highlight either TV or CABLE, depending on which you use. If you use an antenna, highlight TV; if you use cable, highlight CABLE.



4. Press ▼ to select CH PROGRAM.



5. Press *d* or *b* to start channel programming. The TV will automatically cycle through all the TV or Cable channels (depending on which you selected), and store all active channels in the channel memory.

While the TV is cycling through the channels, the message "Programming Now—Please Wait" appears.

- 6. When channel programming is complete, the message "Completed" appears.
- 7. Press Channel \blacktriangle or \blacktriangledown to view the programmed channels.

Adding and erasing channels manually

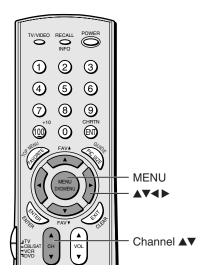
After you have programmed the channels automatically, you can manually add or erase specific channels.

To add or erase channels:

- 1. Select the channel you want to add or erase. If you are adding a channel, you must select the channel using the Channel Number buttons.
- 2. Press MENU, and then press ◀ or ► until the SET UP menu appears.

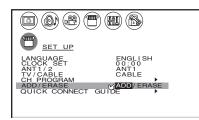
Note:

To tune the TV to a channel not programmed in the channel memory, you must use the Channel Number buttons on the remote control.



Setting u

3. Press \blacktriangle or \blacksquare to highlight ADD/ERASE.



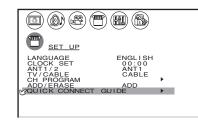
- 4. Press ◀ or ► to select ADD or ERASE, depending on the function you want to perform.
- 5. Repeat steps 1-4 for other channels you want to add or erase.

Using the Quick Connect Guide

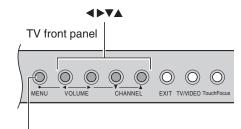
The Quick Connect Guide automatically starts the first time the TV is turned on.

You can change the current settings any time.

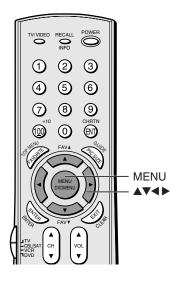
- 1. Press MENU, and then press ◀ or ► until the SET UP menu appears.
- 2. Press ▲ or ▼ to highlight "QUICK CONNECT GUIDE."



 Press ◀ or ► to enter the Quick Connection Guide mode. Advance the setup according to the guide displayed on the screen. You can set up the following items.

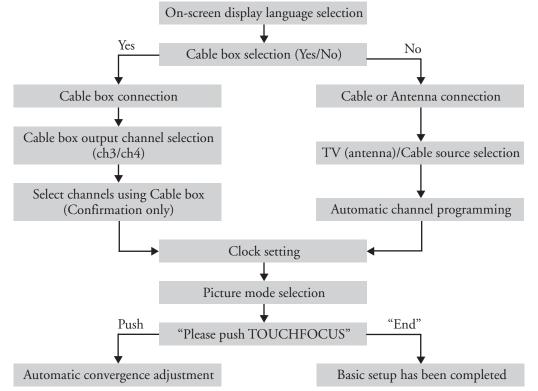


MENU





To stop the Quick Connect Guide, press EXIT or turn off the TV.



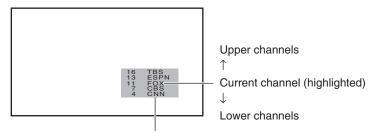
Changing channels

- To change to a specific channel (programmed or unprogrammed): Press the Channel Number buttons (0–9 and 100). For channels 100 and higher, press the 100 button, and then the next two numbers. For example, to select channel 125, press 100, 2, 5.
- To change to the next programmed channel: Press Channel \blacktriangle or \blacktriangledown on the TV or remote control.

Changing channels using SpeedSurf

To use SpeedSurf to change to a specific programmed channel:

1. Press and hold Channel \blacktriangle or \triangledown for about one second. The TV will enter the SpeedSurf mode.



Channel label (if set)

2. Repeatedly press or hold Channel \blacktriangle or \triangledown while the SpeedSurf mode is on-screen to scroll the channel list. Release the button to display the highlighted channel.

Adjusting the color convergence

This projection TV uses three separate TV tubes: red, green, and blue. The red, green, and blue images are projected onto the screen where they converge to form a full-color picture. You can see a clear picture only when the three images converge correctly. Convergence may drift over time or if you move the TV. If you can see clear images on your TV screen, skip this procedure.

It is recommended that the adjustment is made only after the TV has been on for at least 30 minutes.

Automatically adjusting the color convergence using **TouchFocus**[™]

Press TOUCHFOCUS on the TV once. The TV will enter autoconvergence mode, and adjust convergence automatically.



When the adjustment is complete, the normal picture appears. If the error message "Touch Focus Error" appears, retry the TouchFocus adjustment.

(continued on next page)



> 8 9

 \bigcirc ENT

3 2 (1)

> 6 (5)

Channel

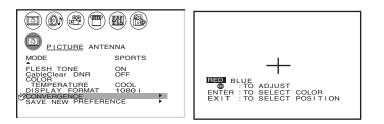
Number

Channel ▲▼

TouchFocus™

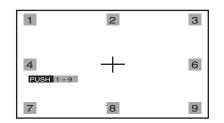
Manually adjusting the color convergence

- 1. Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
- 2. Press ▲ or ▼ to highlight CONVERGENCE (below left).
- 3. Press ◀ or ► to display the Center Convergence menu (below right).



If you see separate red, blue, or green crossed lines (or red or blue shadows next to white lines), you need to adjust the convergence.

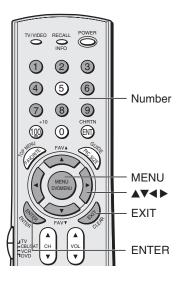
- 4. Press ENTER to highlight RED or BLUE, depending on which color needs adjusting. If both red and blue need adjusting, you will need to perform steps 4 and 5 twice.
- Press ▲ (up), ▼ (down), ◄ (left), or ▶ (right) on the remote control to converge the red or blue line into the green line, which will turn completely white when correctly adjusted. When color convergence is correctly adjusted, you will see two single crossed white lines.
- 6. Press EXIT to display the Circumference Convergence menu.
- 7. Press the corresponding Number button (1–4 and 6–9) to select the area you want to adjust.



8. Press ENTER to highlight RED or BLUE, depending on which color needs adjusting. If both red and blue need adjusting, you will need to perform steps 8 and 9 twice for the selected area.

+	
RED BLUE © :TO ADJUST ENTER:TO SELECT EXIT :TO SELECT	

- Press ▲▼◀► to converge the red or blue line into the green line, which will turn completely white when correctly adjusted. Repeat steps 8 and 9 until you see two single crossed white lines.
- 10. Press EXIT once to select another area to adjust, and then repeat steps 7–9.
- 11. Press EXIT twice to close the Convergence menu.



<u>Features</u>

Using the TV's features

Adjusting the channel settings

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 (or video mode) you want to view.
- 2. Select a second channel using the Channel Number buttons (0-9, 100).
- 3. Press CH RTN. 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 selected.

Switching between two channels using SurfLock[™]

The SurfLockTM feature temporarily "memorizes" one channel in the CH RTN button, so you can return to that channel quickly from any other channel by pressing CH RTN.

To memorize a channel in the CH RTN button:

- 1. Select the channel you want to program into the CH RTN button.
- 2. Press and hold CH RTN for about 2 seconds until the message "Channel Memorized" appears (flashing) on the screen. The



channel has been programmed into the CH RTN button.

- 3. Continue to change channels until your desired channel is selected.
- 4. Press CH RTN. The memorized channel will be selected.

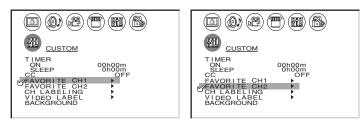
The TV will return to the memorized channel one time only. Once you press CH RTN and then change channels again, the CH RTN button memory will be cleared and the button will function as Channel Return, by switching back and forth between the last two channels that were selected.

Programming your favorite channels

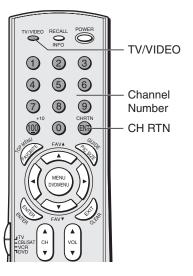
You can preset up to 7 of your favorite channels each for FAVORITE CH1 and FAVORITE CH2 modes using the Favorite Channel Programming feature. Because this feature scans through only your favorite channels, it allows you to skip other channels you do not normally watch.

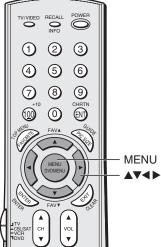
To program your favorite channels:

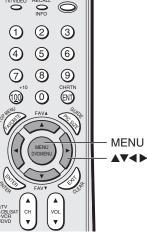
- 1. Press MENU, and then press ◀ or ▶ until the CUSTOM menu appears.
- 2. Press ▲ or ▼ to highlight FAVORITE CH1 or FAVORITE CH2.



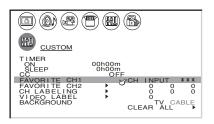
(continued on next page)







3. Press ◀ or ► to display the FAVORITE CH1 menu, for example. CH INPUT will be highlighted.



- 4. Press the Channel Number buttons to enter one of your favorite channels.
- 5. Press ENTER.
- 6. Repeat steps 4 and 5 for other channels.

To select your favorite channels:

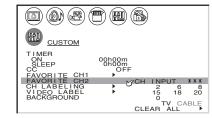
Press FAV $\mathbf{\nabla}$ or $\mathbf{\Delta}$.

To quickly scan through your favorite channels in a seven-picture multi-window:

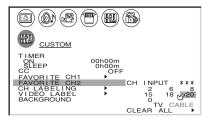
Press FAVORITE (see page 37).

To clear a favorite channel:

- 1. Press MENU, and then press ◀ or ▶ until the CUSTOM menu appears.
- 2. Press \blacktriangle or \triangledown to highlight FAVORITE CH2, for example.
- 3. Press ◀ or ► to display the FAVORITE CH2 menu.



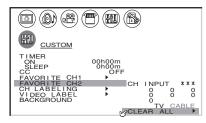
Press ▲▼◀► to highlight the channel you want to clear, then press ENTER.



5. Repeat step 4 for other channels.

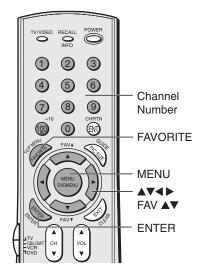
To clear all favorite channels at once:

Press \blacktriangle or \triangledown to highlight CLEAR ALL in step 4 above, and then press \blacktriangleleft or \triangleright to clear all favorite channels at once.



Notes:

- The FAV ▼▲ buttons operate as MENU ◀▶ buttons when a menu is onscreen.
- The favorite channel feature is not available in ANT2 mode.

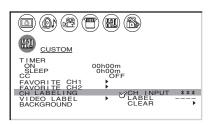


Labeling channels

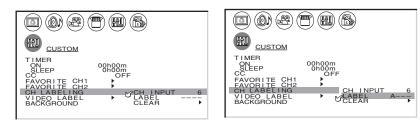
Channel labels appear above the on-screen channel number display each time you turn on the TV, change a channel, or press RECALL. You can choose any four characters to identify a channel.

To create channel labels:

- 1. Press MENU, and then press ◀ or ▶ until the CUSTOM menu appears.
- 2. Press \blacktriangle or \blacktriangledown to highlight CH LABELING.
- 3. Press \blacktriangleleft or \triangleright to display the CH LABELING menu. CH INPUT will be highlighted.



- 2 3 (1)(5) 6 (4)Channel $\overline{7}$ (8) 9 Number ENT \bigcirc MENU ENTER voi
- 4. Press the Channel Number buttons to select a channel you want to label.
- 5. Press $\mathbf{\nabla}$ to highlight LABEL.
- 6. Press \blacktriangleleft or \triangleright repeatedly to select a character for the first space, and then press ENTER.



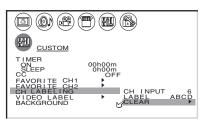
7. Repeat step 6 to enter the rest of the characters.

If you would like a blank space in the label name, you must choose an empty space from the list of characters. Otherwise, a dash "-" will appear in that space.

8. Repeat steps 4-7 for other channels. You can assign labels to a maximum of 32 channels.

To erase channel labels:

- 1. Press MENU, and then press ◀ or ▶ until the CUSTOM menu appears.
- 2. Press \blacktriangle or \blacktriangledown to highlight CH LABELING.
- 3. Press \blacktriangleleft or \blacktriangleright to display the CH LABELING menu.
- 4. Press $\mathbf{\nabla}$ to highlight CH INPUT, then select the channel you want to clear with the Channel Number buttons.
- 5. Press $\mathbf{\nabla}$ to highlight CLEAR.
- 6. Press \blacktriangleleft or \triangleright to erase the channel label.
- 7. Repeat steps 4–6 to erase other channel labels.



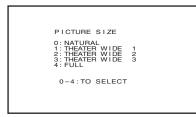
Viewing the wide-screen picture formats (480i and 480p signals only)

You can view 480i and 480p format programs in a variety of picture sizes—Natural, Theater Wide 1, Theater Wide 2, Theater Wide 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. See "Notice of possible adverse effects on TV picture tube," below right.

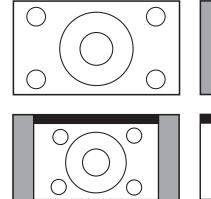
Selecting the picture size

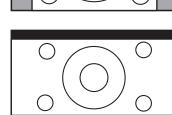
- 1. Press PIC SIZE on the remote control.
- 2. Press the corresponding number button (0–4) to select the desired picture size, as described below and on the next page.



Natural picture size

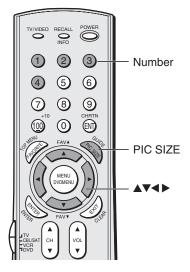
• The image is displayed close to its originally formatted proportion. Some program formats will display with side bars and/or bars at the top and bottom (see examples below).





Natural picture size examples: The way the image displays will vary depending on the format of the program you are currently watching. See "Notice of possible adverse effects on TV picture tube" at right.

(Continued)



Note:

- The PICTURE SIZE feature is not available for some program formats (such as 1080i or 720p). Such formats will display in Natural picture size.
- You also can change the picture size by selecting PICTURE SIZE in the THEATER menu.



NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

Avoid displaying stationary images on your TV screen for extended periods of time. Fixed (non-moving) images (such as still PIP/POP windows or black/gray bars in wide-screen picture or PIP/POP formats) can become permanently engrained in the picture tube. **This type** of damage is NOT COVERED BY YOUR WARRANTY because it is the result of misuse. See item 33 on page 4.

Connecting

Using the emote Contro

Theater Wide 1 picture size

- The picture is non-uniformly enlarged—the center of the picture remains close to its original proportion, but the left and right edges are stretched wider to fill the screen.
- A small part of the picture at the top and bottom is hidden; however, this mode cannot be scrolled.

Theater Wide 2 picture size

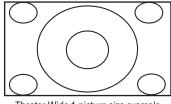
- The entire picture is uniformly enlarged—it is stretched the same amount both wider and taller (retains its original proportion).
- Part of the picture at the top and bottom is hidden. To view the hidden areas, see "Scrolling the Theater Wide picture" on page 32.

Theater Wide 3 picture size

- The picture is non-uniformly enlarged—it is stretched wider to fill the width of the screen, but only slightly stretched taller.
- A small part of the picture at the top and bottom is hidden. To view the hidden areas (such as subtitles or captions), see "Scrolling the Theater Wide picture" on page 32.

Full picture size

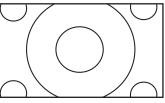
- The picture is non-uniformly enlarged—it is stretched wider to fill the width of the screen, but not stretched taller.
- None of the picture is hidden.



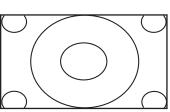
Theater Wide 1 picture size example

Note:

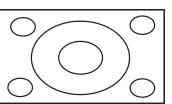
- To adjust the picture size, press PIC SIZE on the remote control or select PICTURE SIZE in the THEATER menu.
- The PICTURE SIZE feature is not available for some program formats (such as 1080i or 720p). Such formats will display in Natural picture size (see page 30).
- If you select Theater Wide 2 or 3, the top and bottom edges of the picture may be hidden. To see the hidden edges, either scroll the picture (see page 32) or try viewing the program in Full picture size.



Theater Wide 2 picture size example



Theater Wide 3 picture size example



Full picture size example

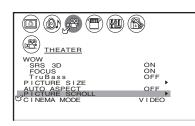
NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

Avoid displaying stationary images on your TV screen for extended periods of time. Fixed (non-moving) images (such as still PIP/POP windows or black/gray bars in wide-screen picture or PIP/POP formats) can become permanently engrained in the picture tube. **This type** of damage is NOT COVERED BY YOUR WARRANTY because it is the result of misuse. See item 33 on page 4.

Using the special functions to change the size of the displayed image (for example, changing the width/height ratio) for the purpose of public display or commercial gain may infringe on copyright laws.

Scrolling the Theater Wide picture (Theater Wide 2 and 3 only)

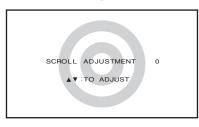
- 1. Press PIC SIZE to select either Theater Wide 2 or Theater Wide 3 mode.
- 2. Press MENU, and then press ◀ or ► until the THEATER menu appears.
- 3. Press \blacktriangle or \blacksquare to highlight PICTURE SCROLL.



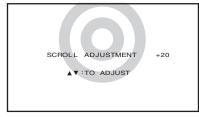
4. Press **◄** or **▶** to display the scroll adjustment mode.



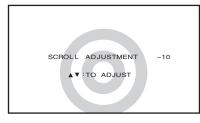
- 5. Press \blacktriangle or \triangledown to adjust the vertical position of the picture.
- Normal (center) position

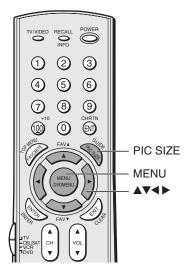


• To raise the picture, press \blacktriangle .



• To lower the picture, press ▼.





Note:

You can scroll the picture in Theater Wide 2 and Theater Wide 3 modes only. The scroll amounts are as follows:

- 480i signal source: Theater Wide 1: Not adjustable Theater Wide 2: +20 to -10 Theater Wide 3: +20 to -10
- 480p signal source: Theater Wide 1: Not adjustable Theater Wide 2: +20 to -10 Theater Wide 3: +20 to -10
- 720p signal source: Not adjustable
- 1080i signal source: Not adjustable

NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

Avoid displaying stationary images on your TV screen for extended periods of time. Fixed (non-moving) images (such as still PIP/POP windows or black/gray bars in wide-screen picture or PIP/POP formats) can become permanently engrained in the picture tube. **This type of damage is NOT COVERED BY YOUR WARRANTY** because it is the result of misuse. See item 33 on page 4.

Using the AUTO ASPECT feature (480i signals only)

When the AUTO ASPECT feature is set to ON and the TV receives a 480i signal, the picture size is automatically selected (as described in the following table).

Aspect ratio of signal source	signal source (automatic aspect size (automatically selected when AUTO ASPECT is ON)	
4:3	Theater Wide 2	
16:9	Full	
Not defined (no ID-1 data)	User-selected picture size (pgs. 30-31)	

If the signal does not include aspect information, the picture size you selected on pages 30-31 is displayed.

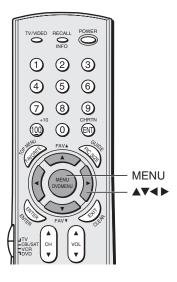
To turn on the AUTO ASPECT feature:

- 1. Press MENU, and then press ◀ or ▶ until the THEATER menu appears.
- 2. Press \blacktriangle or \triangledown to highlight AUTO ASPECT, and then press \blacktriangleleft or ▶ to select ON.



Note:

The AUTO ASPECT feature is not available when viewing antenna (cable) or DVI input sources.



NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

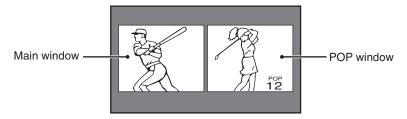
Avoid displaying stationary images on your TV screen for extended periods of time. Fixed (non-moving) images (such as still PIP/POP windows or black/gray bars in wide-screen picture or PIP/POP formats) can become permanently engrained in the picture tube. This type of damage is NOT COVERED BY YOUR WARRANTY because it is the result of misuse. See item 33 on page 4.

Using the POP double-window feature

The POP (picture-out-picture) feature splits the screen into a double window that allows you to watch two programs at the same time. The POP program can come from a TV broadcast or an external source, such as a VCR.

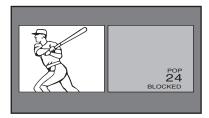
To display a TV broadcast in the POP window:

1. Press SPLIT to display the POP window.



- 2. Select channels of the POP window in the following two ways:
 - To change to a specific channels, press POP DIRECT CH. While "POP" is on the screen, press the Channel Number buttons (0-9 and 100).
 - To change the next programmed channels, press POP CH ▼▲.

If the V-CHIP feature is active and you try to watch a TV program that exceeds your set rating limits, the program will be blocked (see "Using the V-CHIP menu" on page 39).



To display a picture from an external source in the POP window:

- 1. Connect the external source equipment (see "Connecting your TV" on page 8).
- 2. Select the TV program you want to watch in the main window.
- 3. Press SPLIT to display the POP window.
- 4. Repeatedly press SOURCE to select the input source for the POP window (VIDEO 1, VIDEO 2, VIDEO 3, ColorStream HD1, or ColorStream HD2 only; you cannot select DVI in POP mode). The current source will display in purple.
- 5. You can play a tape as the POP picture, or select a channel for the POP window using the VCR's channel keys.

POP SOURCE SELECTION
0 : TV 1 : V IDEC 1 2 : V IDEC 2 3 : V IDEC 3 4 : Color Stream HD1 5 : Color Stream HD2
0-5:TO SELECT

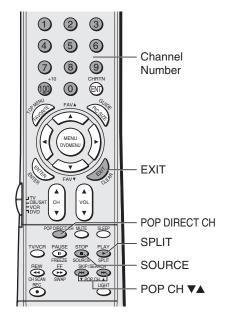
While the above menu is on the screen, you can select the desired signal input source by pressing the corresponding number button (0-5).

To close the POP window:

Press SPLIT again or EXIT.

Note:

- You cannot access POP features when viewing DVI input.
- You cannot display an ANT-2 signal source in the POP window.
- You can choose to output the sound of either the main or POP program from the AUDIO OUT jacks (see "Selecting the Audio OUT sound" on page 55). The TV's speakers always output the sound of the main picture.



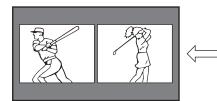
NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

Avoid displaying stationary images on your TV screen for extended periods of time. Fixed (non-moving) images (such as still PIP/POP windows or black/gray bars in wide-screen picture or PIP/POP formats) can become permanently engrained in the picture tube. **This type** of damage is NOT COVERED BY YOUR WARRANTY because it is the result of misuse. See item 33 on page 4.

Using the TV's

Switching the main and POP pictures

Press SWAP while you are using the POP feature to switch the main and POP pictures.



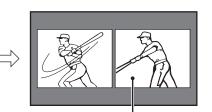


Freezing the POP picture

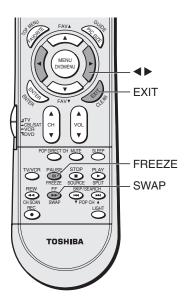
- 1. Press FREEZE while the POP is not on the screen. The POP window will appear with a still picture.
- 2. Press FREEZE again to renew the still picture.



To erase the still POP window: Press EXIT.



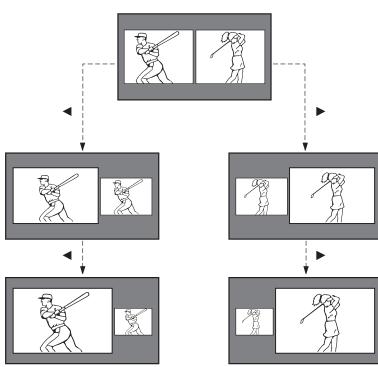
Still picture



0.

Adjusting the size of the double-window

When the input signals of the main and POP pictures are 480i, you can adjust the size of each window. Repeatedly press \blacktriangleleft or \triangleright to change the size (in 9 steps).



Note:

Only 480i signals can be adjusted in the POP double window. If a signal format other than 480i is received and you press ◀ or ▶, the message "Not available" will appear on-screen.

NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

Avoid displaying stationary images on your TV screen for extended periods of time. Fixed (non-moving) images (such as still PIP/POP windows or black/gray bars in wide-screen picture or PIP/POP formats) can become permanently engrained in the picture tube. **This type** of damage is NOT COVERED BY YOUR WARRANTY because it is the result of misuse. See item 33 on page 4. Introduction

35

POP double-window aspect ratio

The POP double-window feature displays each picture according to its input signal aspect ratio, as illustrated below.



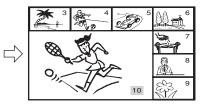
Using the programmed channel search function

You can use the programmed channel search function to quickly scan the channels you programmed into the TV's memory (page 23).

1. Press CH SCAN.

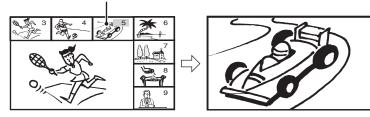
The TV automatically enters POP mode, and begins a sevenpicture scan of your programmed channels.





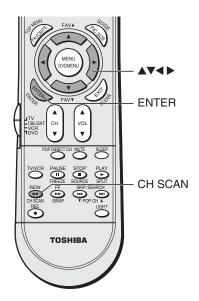
- Press ▲▼◀▶ to select one of the seven pictures. The selected pictures becomes a moving picture. (The main picture is always moving.)
- 3. Press ENTER to display the channel you selected in step 2 as a normal picture.





Note:

- The AUTO ASPECT feature (page 33) does not operate in POP double-window mode.
- Aspect ratio is the ratio of width to height of the picture.



Note:

During the programmed channel search, all main and POP windows display in 16:9 aspect ratio, regardless of the signal format.

NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

Avoid displaying stationary images on your TV screen for extended periods of time. Fixed (non-moving) images (such as still PIP/POP windows or black/gray bars in wide-screen picture or PIP/POP formats) can become permanently engrained in the picture tube. **This type of damage is NOT COVERED BY YOUR WARRANTY** because it is the result of misuse. See item 33 on page 4.

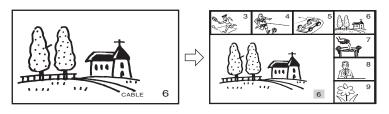
ntroduction

lp Rer

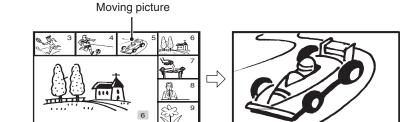
You can use the favorite channel search function to quickly scan your favorite channels (see "Programming your favorite channels" on page 27).

1. Press FAVORITE.

The TV automatically enters POP mode, and begins a sevenpicture scan of your favorite channels in the POP window.



- 2. Press ▲▼◀▶ to select one of the seven pictures (becomes a moving picture). The main picture is an always moving picture.
- 3. Press ENTER to display the channel you selected in step 2 as a normal picture.

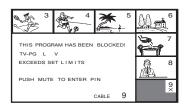


Every time you press FAVORITE, the POP window scans your favorite channels in the following order:

FAVORITE CH1 — FAVORITE CH2 — Off

About the auto favorite feature

If your TV is in the program lock mode, after 4 seconds the TV starts the auto favorite channel search function. See page 41 for details.



NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

The favorite channel search function does not

INFO

FAVORITE

ENTER

Note:

operate in DVI mode.

123

 $\overline{7}$

5 6

8 9

Avoid displaying stationary images on your TV screen for extended periods of time. Fixed (non-moving) images (such as still PIP/POP windows or black/gray bars in wide-screen picture or PIP/POP formats) can become permanently engrained in the picture tube. **This type** of damage is NOT COVERED BY YOUR WARRANTY because it is the result of misuse. See item 33 on page 4.

Using the LOCKS menu

The LOCKS menu includes the V-Chip, CH Lock, Video Lock, and New PIN Code functions. You can use these functions after entering the correct PIN code.

Entering the PIN code

1. Press MENU, and then press ◀ or ▶ until the LOCKS menu appears.

	Ð,ß	
LOCKS		
V-CHIP ENABLE BLOCKING TV RATING MPAA RATING BLOCKING OPTION	OFF	> >
CH LOCK VIDEO LOCK GAME TIMER FRONT PANEL LOCK NEW PIN CODE	OFF OFF OFF	•

- 2. Press \blacktriangle or \triangledown to display the PIN code entering mode.
- Blocking Reset status: Set your 4-digit code by pressing the Number buttons (0–9).
- Blocking Reset status (when the PIN code is already stored): Press the Number buttons (0–9) to enter the 4-digit PIN code used for blocking channels.

(铅制

B LOCKS	LOCKS
BLOCKING RESET	BLOCKING ACTIVE

If the wrong PIN code is entered, the message "Incorrect" appears. Enter the code again, and then press ENTER.

If you cannot remember your PIN code

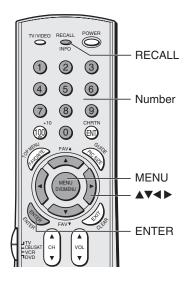
While the PIN code entering screen is displayed, press RECALL four times within five seconds. The PIN code will be released (Blocking Reset status restored).

OFF OFF OFF

Continue to set each item following the steps on the next page.

Note:

The V-Chip function is available only for the U.S. V-Chip system. The Canadian V-Chip system is not supported.



Connecting

Using the V-CHIP menu

Some TV programs and movies include signals that classify the content of the program (violence, sex, dialog, language). The V-CHIP conrol feature in this TV detects the signals and blocks the programs according to your selections. To use this feature, perform the following setup.

ENABLE BLOCKING

- 1. From the LOCKS menu, select ENABLE BLOCKING.
- 2. Press \blacktriangleleft or \triangleright to select ON or OFF.

ON : To enable your setting (Lock)

OFF: To release your setting (Unlock)

Note: The CH LOCK function is not affected with this selection.

MA

PG G

LOCKS RATING ALOG NGUAGE

ÔLENCE

V-CHIP MENU

OUTH TV RATING

TV RATING (Independent rating system for broadcasters)

- 1. From the LOCKS menu, select TV RATING.
- 2. Press ◀ or ► to display the TV RATING menu.
- 3. Press $\mathbf{\nabla}$ or \mathbf{A} to select item.
- Press ► to lock (display "X")
 Press ◄ to unlock (display "✓")
- 5. Repeat steps 3 and 4 to set the next item.

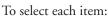
The TV age-based ratings and content themes you can be lock are listed in the table below.

Ratings	Description and Content themes
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
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
PG	 Parental Guidances Suggested (This program contains material that parents may find unsuitable for younger children.) D) Some suggestive dialog L) Infrequent coarse language S) Some sexual situations V) Moderate violence
G	General Audience (Most parents would find this program suitable for all ages.)
Y7, 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.)
Y	All Children (This program is designed to be appropriate for all children.)

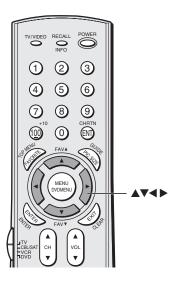
Note:

The V-Chip function is available only for the U.S. V-Chip system. The Canadian V-Chip system is not supported.

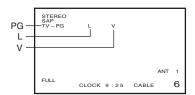




Press $\mathbf{\nabla}$ or \mathbf{A} .

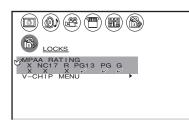


Press RECALL to display the rating of the TV program you are currently watching.



MPAA RATING (Independent rating system for movies)

- 1. From the LOCKS menu, select MPAA RATING.



3. Press ► to lock ("X") or press ◄ to unlock ("✓").

The movie ratings you can lock are described as follows:

X : X-rated (For adults only)

NC17: Not intended for anyone 17 and under

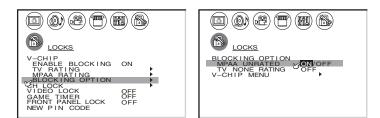
- R : Restricted (Under 17 requires accompanying parent or adult guardian.)
- PG13 : Parents Strongly Cautioned (Some material may be inappropriate for children under 13)
- PG : Parental Guidance Suggested (Some material may not be suitable for children)
- G : General Audience (Appropriate for all ages)

BLOCKING OPTION

- 1. From the LOCKS menu, select BLOCKING OPTION.
- Press ◀ or ► to display the BLOCKING OPTION menu, then press ▲ or ▼ to select item.

MPAA UNRATED:

Press \blacktriangleleft or \triangleright to select ON (Lock) or OFF (Unlock) for unrated programs in the MPAA rating system.



TV NONE RATING

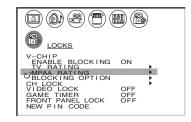
Press ◀ or ► to select ON (Lock) or OFF (Unlock) for programs rated NONE in the TV PARENTAL GUIDELINES.

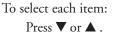


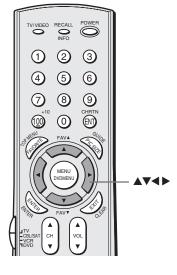
V-CHIP MENU:

Press \blacktriangleleft or \blacktriangleright to return to the LOCKS menu.

LOCKS menu





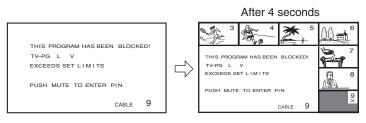


Caution:

Setting the TV None Rating to ON may block the broadcast of emergency information. The menu will display the note, "Enabling this option may block emergency messages" to warn you of this possibility.

Unlocking programs temporarily

1. If you try to watch a TV program that exceeds the rating limits you set, the TV enters program lock mode. After 4 seconds, the TV starts the auto favorite channel search function (see page 37). You can either unlock the program temporarily (see steps 2-4) or select a non-locked program to watch.



- 2. To temporarily unlock the program, press MUTE.
- 3. Press the Number buttons (0-9) to enter your 4-digit PIN code.



4. Press ENTER.

If the correct code is entered, the program lock mode is released and the normal picture appears.

All locking is disabled until the TV is turned off, and will be enabled when the TV is turned on again.

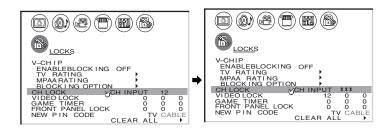
Locking channels

With the CH LOCK feature, you can lock specific channels. The TV will not be able to tune locked channels with the Channel $\blacktriangle \nabla$ buttons or Channel Number buttons, unless you clear the setting.

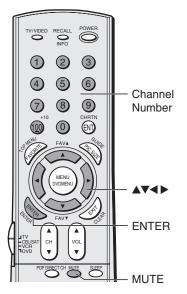
You can lock a maximum of nine channels.

To lock channels:

- 1. From the LOCKS menu, select CH LOCK.
- Press ◀ or ▶ to display the CH LOCK menu. CH INPUT will be highlighted.
- 3. Press the Channel Number buttons to enter the channel you want to lock.
- 4. Press ENTER.



5. Repeat steps 3 and 4 for other channels.



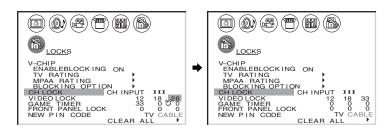


To select each item:

Press $\mathbf{\nabla}$ or \mathbf{A} .

To unlock individual channels:

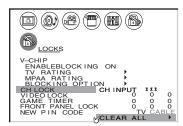
- 1. From the LOCKS menu, select CH LOCK.
- 2. Press \blacktriangleleft or \blacktriangleright to display the CH LOCK menu.
- 3. Press ▲▼◀▶ to highlight the channel you want to unlock, then press ENTER.



4. Repeat step 3 for other channels.

To unlock all locked channels at once:

Press \blacktriangle or \blacktriangledown to highlight CLEAR ALL, and then press \blacktriangleleft or \blacktriangleright .



Locking video inputs

With the VIDEO LOCK feature, you can lock out the input sources (Video 1, Video 2, Video 3, ColorStream HD1, ColorStream HD2, DVI/HDCP) and channels 3 and 4.

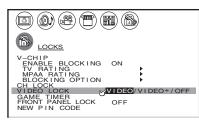
You will not be able to select the input sources with the TV/VIDEO button or Channel buttons unless you clear the setting.

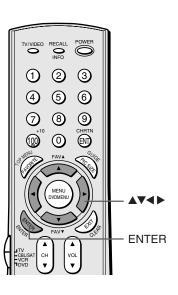
To set up the video lock:

- 1. From the LOCKS menu, select VIDEO LOCK.
- Press ◀ or ▶ to highlight the level of video locking you want (Video, Video+, or Off), as follows:
 - VIDEO : Locks Video 1, Video 2, Video 3, ColorStream HD1, HD2, and DVI/HDCP.
 - VIDEO+ : Locks Video 1, Video 2, Video 3, ColorStream, HD1/HD2, DVI/HDCP, and channels 3 and 4. This option should be used if you use the antenna terminal to play a video tape.

Note: Make sure the POP is not on channel 3 or 4.

OFF : Unlocks all video input sources.





Using the TV's

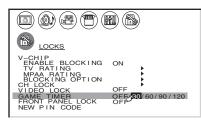
Features

Using the game timer

You can use the GAME TIMER feature to automatically activate the VIDEO LOCK feature, to set a time limit for playing a video game (the VIDEO LOCK is set to VIDEO).

To set the game timer:

- 1. From the LOCKS menu, select GAME TIMER.
- 2. Press \blacktriangleleft or \triangleright to select the amount of time until the video lock is activated (30, 60, 90, or 120 minutes). When the number is highlighted, the timer will start countdown.



To cancel the game timer:

Select OFF in step 2 above.

Using the front panel lock feature

Lock the front panel buttons to prevent the buttons from being pressed accidentally (by children, for example). When the front panel lock is in ON, all control buttons on the TV front panel (except POWER) do not operate.

To lock the front panel:

- 1. From the LOCKS menu, select FRONT PANEL LOCK.
- 2. Press \blacktriangleleft or \triangleright to highlight ON.



If a button on the front panel is pressed, the message "Not Available" appears.

To unlock the front panel:

Highlight OFF in step 2 above, or press and hold the VOL button on the TV for about 10 seconds until the message "Front Panel Lock: Off" appears on the screen.

Changing the PIN code

- 1. From the LOCKS menu, select NEW PIN CODE.
- 2. Press the Number buttons (0-9) to enter a 4-digit code. The numbers you enter will replace the dashes in the display.

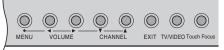


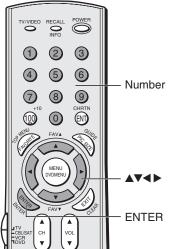
3. Press ENTER. The new PIN code is now active.

Note:

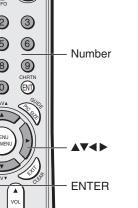
To watch a VIDEO source after the game timer has activated the video lock, you will need to set the VIDEO LOCK feature to OFF (in the LOCKS menu).







Buttons to be locked



Adjusting the picture

Selecting the picture mode

You can select your desired picture type from four picture modes: Sports, Standard, Movie, and Preference.

Mode	Picture Quality
Sports	Bright and dynamic picture (factory setting)
Standard	Standard picture setting (factory setting)
Movie	Movie-like picture setting (factory setting)
Preference	Your personal preference*

*(see "Saving new preference" on page 45.)

To select the picture mode:

- 1. Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
- 2. Press $\mathbf{\nabla}$ or \mathbf{A} to select MODE.
- 3. Press \blacktriangleleft or \blacktriangleright to highlight the mode you prefer.



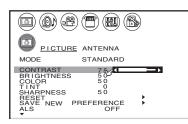
Adjusting the picture quality

You can adjust the picture quality to your personal preferences, including the contrast, brightness, color, tint, sharpness, flesh tone, noise reduction and color temperature.

Selection	Pres	sing 🕨
contrast	lower	higher
brightness	darker	lighter
color	paler	deeper
tint	reddish	greenish
sharpness	softer	sharper

To adjust the picture quality:

- 1. Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
- 2. Press $\mathbf{\nabla}$ or \mathbf{A} until the item you want to adjust is highlighted.
- 3. Press \blacktriangleleft or \blacktriangleright to adjust the level.

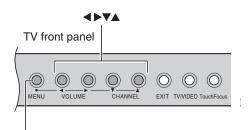


The PICTURE qualities you adjusted can be saved in the TV's memory with the SAVE NEW PREFERENCE feature (see page 45). You can keep these settings or choose factory set options, as described under "Selecting the picture mode" above.

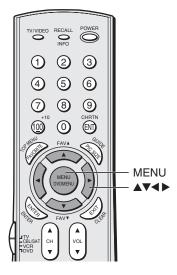
Note:

If you select one of the factory-set picture modes (SPORTS, STANDARDS, or MOVIE) and then change a picture quality setting (for example, increase the contrast), the picture mode automatically changes to PREFERENCE in the Picture menu.

To save your new picture quality settings, you must select SAVE NEW PREFERENCE (see page 45) before closing the Picture menu or the TV will return to the previous picture mode.







Using the TV's

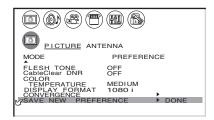
Features

Saving your new preferences

You can save the PICTURE qualities (contrast, brightness, color, tint, and sharpness) you adjusted in the picture preference mode.

To save your new preferences:

- 1. Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
- 2. Press \blacktriangle or \checkmark to highlight SAVE NEW PREFERENCE.
- 3. Press \blacktriangleleft or \blacktriangleright . When complete, the menu displays "DONE".



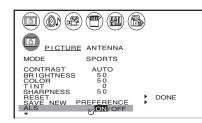
The mode automatically change to PREFERENCE (see "Selecting the picture mode" on page 44).

Using the ALS (ambient light sensor) feature

The ALS feature automatically adjusts the picture contrast according to current lighting conditions. For example, when the room is dark, the ALS will automatically reduce the contrast (which reduces eye strain). ALS is activated when the ALS menu is set to ON.

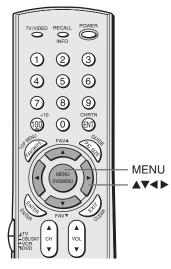
To activate the ALS:

- 1. Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
- 2. Press \blacktriangle or \blacktriangledown to highlight ALS.
- 3. Press ◀ or ► to highlight ON. The CONTRAST setting changes to AUTO, and is not adjustable while the ALS feature is on.



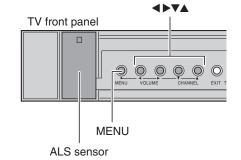
To deactivate the ALS:

Highlight OFF in step 3 above.



Note:

Do not cover the ALS sensor on the front panel of the TV.

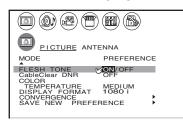


Using the flesh tone feature

This feature displays natural flesh tones by correcting the tint.

To turn on the flesh tone feature:

- 1. Press MENU, and then press ◀ or ► until the PICTURE menu appears.
- 2. Press \blacktriangle or \blacktriangledown to highlight FLESH TONE.
- 3. Press \blacktriangleleft or \triangleright to highlight ON.



Using the CableClear[™] DNR feature

This feature allows you to reduce visible interference in your TV picture. This is useful when receiving a broadcast with a weak signal (especially a Cable channel) or playing back a video cassette or disc damaged by repeated use.

To turn on CableClear DNR:

- 1. Press MENU, and then press ◀ or ► until the PICTURE menu appears.
- 2. Press \blacktriangle or \blacktriangledown to highlight CableClear DNR.
- 3. Press ◀ or ▶ to highlight AUTO.



To turn off CableClear DNR:

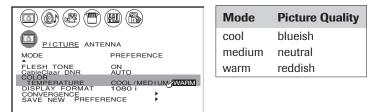
Highlight OFF in step 3 above.

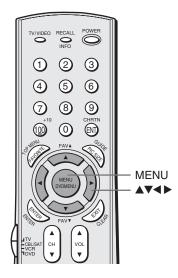
Selecting the color temperature

You can change the quality of the picture by selecting from three preset color temperatures: cool, medium, and warm.

To select the color temperature:

- 1. Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
- 2. Press \blacktriangle or \triangledown to highlight COLOR TEMPERATURE.
- 3. Press \blacktriangleleft or \blacktriangleright to highlight the mode you prefer.





Note:

The Cable Clear DNR feature is not available in DVI mode (will be set to OFF).

Using the TV's Features

Introduction

Using the mote Contro

ng the TV's

Selecting the display format (for 480p signals only)

Use this feature to convert a 480p input signal to 540p or 1080i. To select the display format:

- 1. Press MENU, and then press ◀ or ► until the PICTURE menu appears.
- 2. Press \blacktriangle or \triangledown to highlight DISPLAY FORMAT.
- 3. Press ◀ or ► to select 540p or 1080i as you desire.



Resetting your picture adjustments

The RESET function adjusts the picture qualities to the following factory settings:

Contrast max (100)
Brightness center (50)
Color center (50)
Tint center (0)
Sharpness center (50)

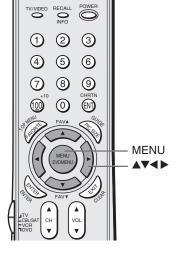
To reset the picture adjustments:

- Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
- 2. Press ▲ or ▼ to highlight RESET.
- 3. Press ◀ or ►. The menu displays "DONE."

	ANTENNA		
MODE	SPORTS		
CONTRAST BRIGHTNESS COLOR TINT SHARPNESS	100 50 50 50 50		
SAVE NEW PF	REFERENCE ON	DONE	

Color temperature cool CableClear DNR auto

Mode sports



Selecting the cinema mode

When you view a DVD movie (3-2 pulldown processed) from a DVD player connected to the ColorStream (component video) inputs on the TV, smoother and more natural motion can be obtained by setting the CINEMA MODE to FILM (auto).

To set the CINEMA MODE to FILM (auto):

- 1. Press MENU, and then press ◀ or ► until the THEATER menu appears.
- 2. Press \blacktriangle or \blacktriangledown to highlight CINEMA MODE.
- 3. Press \blacktriangleleft or \blacktriangleright to select FILM (auto).



To set the CINEMA MODE to VIDEO (off):

Press \blacktriangleleft or \triangleright to select VIDEO in step 3 above.

Note:

If you notice flicker in a 480p image, try setting the DISPLAY FORMAT feature to 540p.

Selecting the video input source

Press TV/VIDEO on the remote control or TV to view a signal from another device connected to your TV, such as a VCR or video disc player (see illustrations below). You can select ANT 1, VIDEO 1, VIDEO 2, VIDEO 3, ColorStream HD1, ColorStream HD2, DVI, or ANT 2 depending on which input jacks are used for connecting the devices (see "Connecting your TV" on page 8).



Pressing TV/VIDEO on the remote control displays the current signal source (press TV/VIDEO again or 0-7 to <u>change</u>)



Pressing TV/VIDEO on the TV changes the current signal source

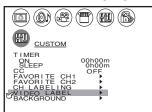
Labeling the video input sources

The video label feature allows you to label each input source for your TV from the following preset list of labels:

- : Uses the default label name
- VCR : Video cassette recorder
- DVD : DVD video
- DTV : Digital TV set-top box
- SAT : Satellite box
- CBL : Cable box
- HD : DVI/HDCP device (see page 14.)

To label the video input sources:

- 1. Press MENU, and then press ◀ or ▶ until the CUSTOM menu appears.
- 2. Press \blacktriangle or \triangledown to highlight VIDEO LABEL.



- 3. Press ◀ or ► to display the VIDEO LABEL menu.
- 4. Press \blacktriangle or \triangledown to highlight the video source you want to label.
- 5. Press \blacktriangleleft or \triangleright to select the desired label for that input source.

6. Finish labeling the other video sources as desired. To return to the previous menu, press \blacktriangle or ∇ to highlight CUSTOM MENU,



and then press \blacktriangleleft or \blacktriangleright . 7. To exit the menu, press EXIT.

Note:

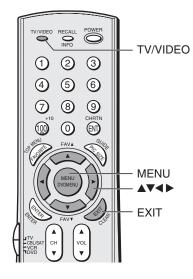
- When ColorStream HD 1 or HD 2 is selected, the video OUT jack does not output a signal. To receive a video OUT signal, use a video or S-video IN connection instead of the ColorStream connection.
- If you select ColorStream HD1 or HD2 while the POP picture is active, the POP window will close.

Please note the following regarding the DVI source selection:

This TV is not intended for connection to and should not be used with a PC (personal computer). See "Connecting a device to the DVI/HDCP input" on page 14 for details.

TV front panel

\bigcirc Ð \bigcirc \odot (C MENU VOLUME CHANNEL EXIT V/VIDEO Touch TV/VIDEO



Note:

The HD (high-definition) label is available for DVI mode only (see "Selecting the video input source" above, and "Connecting a device to the DVI/HDCP input" on page 14).

Using the TV's Features

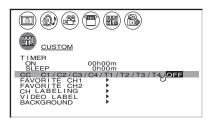
Using the closed caption feature

The closed caption feature 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 as "CC" in TV listings).
- 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. Tune the TV to the desired program.
- 2. Press MENU, and then press ◀ or ► to display CUSTOM menu.
- 3. Press \blacktriangle or \blacktriangledown to highlight CC.



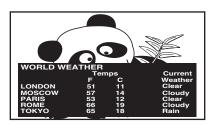
- Press ◀ or ► to highlight the desired closed caption mode, as follows:
- To view captions, highlight C1, C2, C3, or C4 (C1 displays translation of the primary language in your area).

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

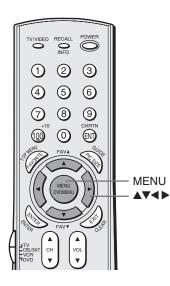


• To view text, highlight T1, T2, T3, or T4.

Note: If text is not available in your area, a black rectangle may appear on your screen. If this happens, turn the Closed Caption feature OFF.



To turn off the Closed Caption feature: Highlight OFF in step 4.



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 nonstandard

Setting the ON timer

To set the ON timer to turn on the TV automatically:

- 1. Press MENU, and then press ◀ or ▶ until the CUSTOM menu appears.
- 2. Press \blacktriangle or \checkmark to highlight ON.
- 3. After the number position starts to blink, press the Number buttons (0-9) to enter the length of time until the TV turns on automatically.

You can set the ON timer in 10-minute increments, up to 12h00m.

4. Press ENTER to start the timer.



5. Press POWER to turn off the TV. The TV will turn on automatically at the time you set in the ON timer.

Setting the sleep timer

To set the sleep timer to turn the TV off automatically:

1. Press SLEEP to set the length of time until the TV turns off.



Every time you press the button, the time display will increase by 10 minutes, up to 3 hours.

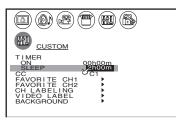
 $0h00m \rightarrow 0h10m \rightarrow 0h20m - - - \rightarrow 2h50m \rightarrow 3h00m \rightarrow 0h00m$

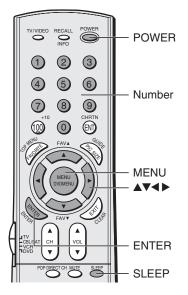
To cancel the sleep timer:

Press SLEEP until it is set to 0h00m.

The timer can also be set using the on-screen menu:

- 1. Press MENU, and then press ◀ or ▶ until the CUSTOM menu appears.
- 2. Press \blacktriangle or \triangledown to highlight SLEEP.
- 3. After the number position starts to blink, press the Number buttons (0-9) to enter the length of time until the TV turns off automatically.
- 4. Press ENTER to start the timer.





Note :

- When an instant power failure occurs, the ON timer and sleep timer settings may be cleared.
- To display the amount of time left until the TV turns on or off automatically, press RECALL.

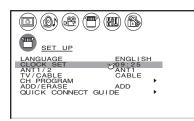
Features

Connecting

Setting the clock

To set the clock:

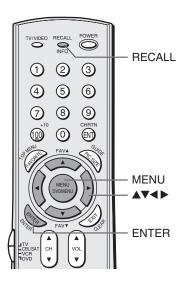
- 1. Press MENU, and then press ◀ or ▶ until the SET UP menu appears.
- 2. Press \blacktriangle or \blacktriangledown to highlight CLOCK SET.
- 3. After the number position starts to blink, press the Number buttons (0-9) to enter the correct time. The clock operates on a 24-hour cycle.
- 4. Press ENTER to start the clock.



To display the time on-screen: Press RECALL.

Note :

If the TV's power source is interrupted (the power cord is unplugged or a power failure occurs), the clock must be reset.



Using the TV's Features

Adjusting the sound

Muting the sound

Press MUTE to temporarily reduce (1/2 MUTE) or turn off (MUTE) the sound. While the sound is off, the screen will display "1/2 MUTE" or "MUTE" in the lower right corner. Every time you press the button, the mute mode will change in the following order.

 \rightarrow Normal \rightarrow 1/2 MUTE \rightarrow MUTE -

When you select "MUTE" mode, the closed caption feature is automatically activated. To deactivate this feature, deactivate MUTE. This feature works only when the closed caption mode is set to OFF. See "Using the closed caption feature" on page 48 for more information.

Selecting stereo/SAP broadcasts

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

When the TV receives a stereo or SAP broadcast, the word STEREO or SAP appears on-screen every time the TV is turned on, the channel is changed, or the RECALL button is pressed.

The MTS feature is not available when the TV is in VIDEO mode.

To listen to stereo sound:

- 1. Press MENU, and then press ◀ or ▶ until the AUDIO menu appears.
- 2. Press \blacktriangle or \blacktriangledown to highlight MTS.
- 3. Press \blacktriangleleft or \blacktriangleright to highlight STEREO.

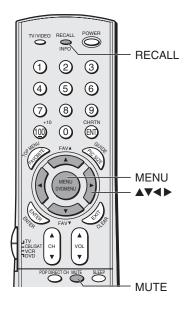


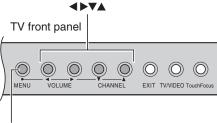
You can leave your TV in STEREO mode because it will automatically output the type of sound being broadcast (stereo or monaural). The word "STEREO" or "SAP" displays in yellow in the menu when the TV receives the signal.

If the stereo sound is noisy, select MONO to reduce the noise.

To listen to SAP (if available):

- 1. Press MENU, and then press ◀ or ▶ until the AUDIO menu appears.
- 2. Press \blacktriangle or \blacktriangledown to highlight MTS.
- 3. Press ◀ or ► to highlight SAP. You will hear the station's second audio program (if available) from the speakers, while viewing the original program's picture (see note at right).





MENU

Note :

A second audio program (SAP) can be heard only on those TV stations that offer it.

For example, a station might broadcast music as a second audio program. If you have SAP on, you will see the current program on the screen but hear music instead of the program's normal audio.

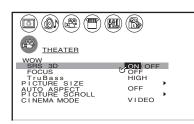
However, if you have SAP on, and the station you are watching is not currently broadcasting a second audio program, the station's normal audio will be output; however, occasionally there is no sound at all in this instance. If this happens, set the MTS feature to STEREO mode.

Using the WOW[™] surround sound feature

WOW is the latest audio enhancement technology combined with SRS 3D and TruBass of SRS Labs individual technologies. The feature uses stereo signals from a TV broadcast or video input.

To adjust the WOW feature:

- 1. Select STEREO mode (See "Selecting stereo/SAP broadcasts" on page 52).
- 2. Press MENU, and then press ◀ or ► until the THEATER menu appears.
- 3. Press ▲ or ▼ to highlight the desired WOW feature you want to adjust, then press ◀ or ► to adjust the item.



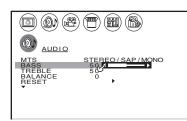
- SRS 3D To turn on or off the surround sound effect.
- FOCUS To turn on or off the vocal enphasis effect.
- TruBass To select your desired bass expansion level (HIGH, LOW or OFF).

Adjusting the sound quality

You can change the quality of your TV's sound by adjusting the bass, treble, and balance.

To adjust the sound quality:

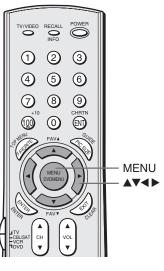
- 1. Press MENU, and then press ◀ or ▶ until the AUDIO menu appears.
- 2. Press \blacktriangle or \triangledown to highlight the item you want to adjust.



- 3. Press \blacktriangleleft or \blacktriangleright to adjust the level.
- < makes the sound quality weaker or decreases the balance in the right channel, depending on the item selected.
- The makes the sound quality stronger or decreases the balance in the left channel, depending on the item selected.

Note:

If the broadcast is monaural, the SRS 3D effect does not work.



SRS WOW, SRS and (•) symbol are trademarks of SRS Labs, Inc.

SRS WOW technology is incorporated under license from SRS Labs, Inc.

Resetting your audio adjustments

The RESET function returns the audio adjustments to the following factory settings:

Bass center (50) Treble center (50) Balance center (0)

To reset the audio adjustments:

- 1. Press MENU, and then press ◀ or ▶ until the AUDIO menu appears.
- 2. Press \blacktriangle or \blacktriangledown to highlight RESET.
- 3. Press ◀ or ►. The menu displays "DONE".



Using the sub-bass system (SBS)

The sub-bass system allows you to enhance bass performance, even when the sound volume is low.

To turn on the SBS:

- 1. Press MENU, and then press ◀ or ▶ until the AUDIO menu appears.
- 2. Press \blacktriangle or \blacksquare to highlight SBS.
- 3. Press \blacktriangleleft or \blacktriangleright to highlight ON.



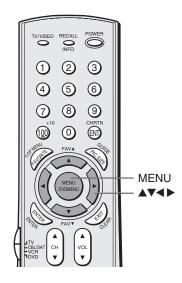
To adjust the SBS level:

- 4. Press \blacktriangle or \blacktriangledown to highlight SBS LEVEL.
- 5. Press \blacktriangleleft or \blacktriangleright to adjust the SBS level.



To turn off the SBS:

Highlight OFF in step 3 above.



Note:

While in the SBS OFF mode, if the SBS level is adjusted, the SBS is automatically set ON.

ntroduction

Using the mote Control

Use this feature to turn the TV speakers off when you connect an audio system (See "Connecting an audio system" on page 15).

To turn off the built-in speakers:

- 1. Press MENU, then press ◀ or ▶ until AUDIO menu appears.
- 2. Press \blacktriangle or \blacktriangledown to highlight SPEAKERS.
- 3. Press \blacktriangleleft or \triangleright to highlight OFF.



To turn on the built-in speakers:

Highlight ON in step 3 above.

Selecting the Audio OUT sound

This feature allows you to select the sound source (MAIN or POP) that is output from the Audio OUT jacks (See "Connecting two VCRs" on page 13).

This is useful when amplifying or recording the POP sound with external equipment while hearing the sound of the main picture through the built-in speakers.

To select the Audio OUT sound:

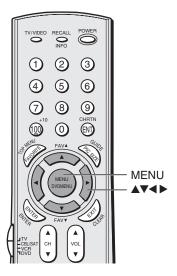
- 1. Press MENU, and then press ◀ or ▶ until the AUDIO menu appears.
- 2. Press \blacktriangle or \blacktriangledown to highlight AUDIO OUT.
- 3. Press \blacktriangleleft or \blacktriangleright to select MAIN or POP.



- MAIN: Outputs the sound of the main program to the AUDIO OUT jacks.
- POP: Outputs the sound of the POP program to the AUDIO OUT jacks.

Note:

Make sure the volume control of your audio amplifier is set to a moderate listening level.



Note:

When the POP double-window is on-screen, the sound of the main program is output to the AUDIO OUT jacks, even if POP is selected in the AUDIO OUT menu.

The sound of the main program is always output from the TV's speakers, regardless of the AUDIO OUT setting.

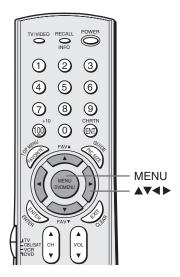
Using the StableSound® feature

When the signal source is changed, the StableSound feature limits the highest volume level to prevent extreme changes in volume (for example, to prevent the sudden increase in volume that often happens when a TV program switches to a commercial).

To turn on the StableSound feature:

- 1. Press MENU, and then press ◀ or ▶ until the AUDIO menu appears.
- 2. Press \blacktriangle or \blacksquare to highlight STABLE SOUND.
- 3. Press \blacktriangleleft or \blacktriangleright to select ON.





To turn off the StableSound feature:

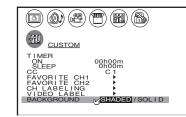
Highlight OFF in step 3 above.

Selecting the background of the menu display

You can change the background of the menu display by selecting from two preset types: shaded and solid (gray).

To select the background:

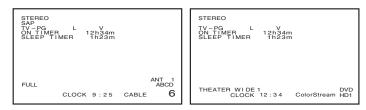
- 1. Press MENU, and then press ◀ or ▶ until the CUSTOM menu appears.
- 2. Press ▲ or ▼ to highlight BACKGROUND.
- 3. Press ◀ or ► to select either a SHADED or SOLID background.

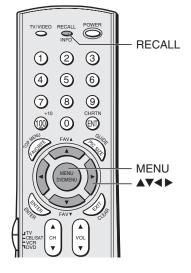


Displaying on-screen information

Press RECALL to display the following information on-screen:

- Antenna mode (when in TV mode)
- Channel number or VIDEO mode selected
- Time (if set)
- Remaining time of ON/SLEEP timer (if set)
- Channel label (if set)
- Stereo or SAP audio status
- V-CHIP rating status
- Picture size (when in ColorStream mode)





Viewing the demo mode

The demo mode automatically demonstrates several of your TV's features. This function is provided for demonstration purposes only.

To start the demo:

Press and hold MENU on the TV front panel for 4 seconds.

To stop the demo:

Press RECALL, EXIT, or POWER.

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 does not work in VIDEO mode.

Understanding the last mode memory feature

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

If the power is going to be off for a long time and you are going to be away from your TV, unplug the power cord to prevent the TV from turning on in your absence.

Appendix

Specifications

Television System	Dimensions
NTSC standard	46H83: Width 43-3/8 inches (1102 mm)
	Height 40 inches (1029 mm)
Channel Coverage	Depth 21-7/8 inches (556 mm)
VHF: 2 through 13	51H83: Width 47-9/16 inches (1208 mm)
UHF: 14 through 69	Height 50 inches (1283 mm)
Cable TV: Mid band (A-8 through A-1, A through I)	Depth 22 inches (572 mm)
Super band (J through W)	57H83: Width 52-3/4 inches (1340 mm)
Hyper band (AA through ZZ, AAA, BBB)	Height 55 inches (1416 mm)
Ultra band (65 through 94, 100 through 125)	Depth 23-7/8 inches (606 mm)
	65H83: Width 59-7/8 inches (1521 mm)
Power Source	Height 59-7/8 inches (1521 mm)
120 V AC, 60 Hz	Depth 26 inches (668 mm)
	1
Power Consumption	Mass
190 W (average)	46H83: 150 lbs (68.0 kg)
	51H83: 169 lbs (76.6 kg)
Audio Power	57H83: 204 lbs (92.5 kg)
20 W + 20 W	65H83: 240 lbs (108.8 kg)
Speaker Type	Supplied Accessories
46H83: Two 4-3/4 inches (12 cm) round	Remote Control with 2 size "AA" alkaline batteries
51H83: Two 6-5/16 inches (16 cm) round	
57H83: Two 6-5/16 inches (16 cm) round	Optional TV Stand
65H83: Two 6-5/16 inches (16 cm) round	46H83: ST4663
Video/Audio Terminals	Design and specifications are subject to change without notice.
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,	
47 k ohm)	
ColorStream [®] (component video) INPUT	
Y : 1V(p-p), 75 ohm	
PR: 0.7 V(p-p), 75 ohm	
PB: 0.7 V(p-p), 75 ohm	
AUDIO: 150 mV(rms), 47 k ohm	
VIDEO/AUDIO OUTPUT	
VIDEO: 1 V(p-p), 75 ohm, negative sync.	
AUDIO: 150 mV(rms) (30% modulation equivalent,	
4.7 k ohm)	
VARIABLE AUDIO OUTPUT	
0–300 mV(rms) (30% modulation equivalent, 4.7 k ohm)	
AUDIO CENTER CHANNEL INPUT	
300 mV(rms) (30% modulation equivalent, 10 k ohm)	
DVI/HDCP INPUT	
HDCP compliant	
E-EDID* 1.3 compliant	
DVI-D uncompressed, high-speed, digital single-link	
connection	
Suggested scan rates: 1080i, 480p, 480i	

^{*} E-EDID = Enhanced-Extended Display Identification

Appendix

Before calling a service technician, please check the following table for a possible cause of the problem and some solutions.

Problem	Solution
TV will not turn on	Make sure the power cord is plugged in, then press POWER.The remote control batteries may be dead. Replace the batteries.
No picture, no sound	• Check the antenna/cable connections.
No sound, picture OK	 The sound may be muted. Press VOLUME. The station may have broadcast difficulties. Try another channel. Check that the SPEAKERS function in AUDIO menu is set properly. Check that the AUDIO CENTER CHANNEL switch is set properly.
Poor picture, sound OK	Check the antenna connections.The station may have broadcast difficulties. Try another channel.Adjust the PICTURE menu.
Poor reception of broadcast channels	 The station may have broadcast difficulties. Try another channel. Check the antenna connections. If you are using a VCR, make sure the TV/VCR button is set correctly.
Cannot receive above channel 13	• Make sure the TV/CABLE switch is set to the mode that corresponds with the signal source type (cable company or outside antenna).
Black box appears on the screen	• The closed caption feature may be set to one of the Text modes (T1, T2, T3, or T4). Turn closed captioning OFF.
Unable to select a certain channel	• The channel may be locked out with the CH LOCK feature, or erased with the ADD/ERASE feature.
Multiple images	The station may have broadcast difficulties. Try another channel.Antenna reception may be poor. Use a highly directional outdoor antenna.
Poor color or no color	The station may have broadcast difficulties. Try another channel.Adjust the TINT and/or COLOR in the PICTURE menu.
No stereo or SAP sound from a known MTS broadcast	• Make sure the MTS feature is set properly.
The front panel buttons do not operate	Check the FRONT PANEL LOCK feature.
The remote control does not operate	 Check whether the appropriate device mode is selected. Remove all obstructions between the remote control and the remote control sensor in the TV. The remote control batteries may be dead. Replace the batteries.
Cannot access signal input sources (Video1, Video2, Video3, ColorStream HD1/HD2, DVI/HDCP) and/or Channels 3 and 4.	• Check the VIDEO LOCK feature.

Limited United States Warranty for 27" FST PURE[®] and All Larger 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 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*

TACP warrants this 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. TACP Authorized Service Station 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 TACP Authorized Service Station for repair and returned to your home at no cost to you.

Limited Two (2) Year Warranty on Picture Tube*

TACP further warrants the picture tube in this television against defects in materials or workmanship for a period of two (2) years after the date of original retail purchase. DURING THIS PERIOD, TACP WILL, AT TACP'S OPTION, REPAIR OR REPLACE A DEFECTIVE PICTURE TUBE WITH A NEW OR REFURBISHED PICTURE TUBE WITHOUT CHARGE TO YOU, EXCEPT THAT, IF A DEFECTIVE PICTURE TUBE IS REPAIRED OR REPLACED AFTER ONE (1) YEAR FROM THE DATE OF THE ORIGINAL RETAIL PURCHASE, YOU PAY LABOR CHARGES INVOLVED IN THE REPAIR OR REPLACEMENT.

Rental Units

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

*Commercial Units

Televisions sold and used for commercial purposes have a limited ninety (90) day warranty for all parts, labor, and picture tubes.

Owner's Manual and Product Registration Card

Read this owner's manual thoroughly before operating this television. Complete and mail the enclosed product registration card within ten days after you, or the person who has given you this product as a gift, purchased this television. Returning the product registration card will enable TACP to provide you with better customer service and improved product support. Failure to return the product registration card will not affect your rights under this warranty.

Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

- (1) You must provide your bill of sale or other proof of purchase.
- (2) All warranty servicing of this television must be made by an Authorized TACP Service Station.
- (3) The warranties from TACP are effective only if the television is purchased and operated in the 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 these warranties. Reception problems caused by inadequate antenna systems are your responsibility.
- (5) Warranties extend only to defects in materials or workmanship as limited above and do not extend to any television or parts that have been lost or discarded by you or to damage to television or parts caused by 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; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible.

How to Obtain Warranty Services

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

- Visit TACP's web site at www.toshiba.com/tacp or call toll free 1-800-631-3811 to find the nearest TACP Authorized Service Station.
- (2) Present your bill of sale or other proof of purchase to the Authorized Service Station. Authorized TACP Service Station 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 Authorized Service Station for repair and returned to your home at no cost to you.

For additional information, visit TACP's web site: www.toshiba.com/tacp.

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.

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 action must be commenced to enforce any obligation of TACP arising under this warranty or under any law of the United States or of any state thereof is hereby limited to 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, LIMITATIONS ON THE TIME WITHIN WHICH AN ACTION MAY BE BROUGHT, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES; THEREFORE, THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU UNDER SUCH CIRCUMSTANCES.

FST PURE[®] is a registered trademark of Toshiba America Consumer Products, L.L.C. 0104 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 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 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 Two (2) Year Warranty on Picture Tube*

TCL further warrants the picture tube in this television against defects in materials or workmanship for a period of two (2) years after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE A DEFECTIVE PICTURE TUBE WITH A NEW OR REFURBISHED PICTURE TUBE WITHOUT CHARGE TO YOU, EXCEPT THAT, IF A DEFECTIVE PICTURE TUBE IS REPAIRED OR REPLACED AFTER ONE (1) YEAR FROM THE DATE OF THE ORIGINAL RETAIL PURCHASE, YOU PAY LABOR CHARGES INVOLVED IN THE REPAIR OR REPLACEMENT.

Rental Units

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

*Commercial Units

Televisions sold and used for commercial purposes have a limited ninety (90) day warranty for all parts, labor, and picture tubes.

Owner's Manual

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

Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

- (1) You must provide your bill of sale or other proof of purchase.
- (2) All warranty servicing of this television must be made by an Authorized TCL Service Depot.
- (3) The warranties from TCL are effective only if the television is purchased in Canada from an authorized TCL dealer and operated in Canada.
- (4) Labor service charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by these warranties. Reception

problems caused by inadequate antenna systems are your responsibility.

(5) Warranties extend only to defects in materials or workmanship as limited above and do not extend to any television or parts that have been lost or discarded by you or to damage to television or parts caused by misuse, accident, Acts of God (such as lightning or fluctuations in electric power), improper installation, improper maintenance, or use in violation of instructions furnished by TCL; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible.

How to Obtain Warranty Services

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

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

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

ALL WARRANTIES IMPLIED BY THE LAW OF ANY PROVINCE OF CANADA, 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 PROVINCE OF CANADA AS HEREBY LIMITED, THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, AGREEMENTS, AND SIMILAR OBLIGATIONS OF TCL WITH RESPECT TO THE REPAIR OR REPLACEMENT OF ANY PARTS. IN NO EVENT SHALL TCL BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES.

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 action must be commenced to enforce any obligation of TCL arising under this warranty or under any law of Canada or of any province thereof, is hereby limited to 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 province of Canada.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH MAY VARY FROM PROVINCE TO PROVINCE IN CANADA. SOME PROVINCES OF CANADA DO NOT ALLOW LIMITATIONS ON THE DURATION OF AN IMPLIED WARRANTY, LIMITA-TIONS ON THE TIME WITHIN WHICH AN ACTION MAY BE BROUGHT, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES; THERE-FORE, THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU UNDER SUCH CIRCUMSTANCES.

FST PURE® is a registered trademark of Toshiba America Consumer Products, L.L.C. 0104 Appendix

61

Index

A

A/V cables (standard)	8
A/V receiver connection	15
Ambient light sensor (ALS)	45
ANT 1/2	22
Antenna cables (coaxial)	8
AUDIO OUT sound, selecting	55
Audio system connection	15
Auto aspect	
Auto convergence	
Auto favorite	37, 41
Auto power off	57

В

BACKGROUND selection56	
Back of the TV7	

С

•	
CableClear [™] DNR	
Cable converter box connection	
Camcorder connection	
CH ▲▼ buttons	
CH LABELING	29
CH LOCK	41
CH RTN button	27
Channel Number buttons	25
Channel programming	
ADD/ERASE	23
Automatic programming	23
TV/CABLE selection	
Cinema mode	
Clock, setting	51
Closed caption	49
Color temperature	
ColorStream (component) cables	8
Convergence adjustment	25

D

Demo mode	57
Display format	
Double-window ("POP") feature	
DTV receiver connection	
DVD connection	10, 11
DVI/HDCP connection	

F G

FAV ▲▼ buttons	
FAVORITE button	
Favorite channels, programming	
Front of the TV	
Front panel lock	
Game timer	

LΜ

Labeling channels Labeling video inputs Language selection Last mode memory Locking channels Locking video inputs Locks menu Menu system	
MTS feature MUTE button	

O P

ON-timer
Picture adjustments
COLOR TEMPERATURE46
FLESH TONE46
Picture mode44
Picture quality44
Picture-out-picture (POP)
CH SCAN button
FREEZE button35
POP CH AV buttons
POP DIRECT CH button
SOURCE button
SPLIT button
SWAP button
Picture scroll
Picture size selection
POP (also see "Picture-out-picture")
QR
Quick connect guide
RECALL button
Remote control
Battery installation16
Learning about the buttons20
Programming 17
RESET 47, 54
S
SAP sound
Satellite receiver connection
Scrolling the Theater Wide picture
Set-top box
Size of Double-Window, adjusting
Sleep timer
Sound quality adjustments
SPEAKERS on/off
Specifications
SpeedSurf mode
SRS 3D surround
StableSound [®]
Stereo sound
Sub-bass system (SBS)54
SurfLock™
S-video cables

Т

1	
Theater wide picture	31
TouchFocus [™]	.25
Troubleshooting	59
TV/VIDEO button	48

V

V-CHI P	
BLOCKING OPTION	.40
ENABLE BLOCKING	39
MPAA RATING	.40
NEW PIN CODE	.43
TV RATING	.39
Unlocking programs temporarily	.41
VCR connection	8
VIDEO LABEL	48
VIDEO LOCK	.42
W	
Warranty 60,	61

TOSHIBA AMERICA CONSUMER PRODUCTS, L.L.C.

HEAD OFFICE: 82 TOTOWA ROAD, WAYNE, NJ 07470, U.S.A. NATIONAL SERVICE DIVISION:1420-B TOSHIBA DRIVE, LEBANON, TN 37087, U.S.A.

TOSHIBA OF CANADA LTD.

HEAD OFFICE: 191 McNABB STREET, MARKHAM, ONTARIO, L3R 8H2, CANADA – TEL: (905) 470-5400 SERVICE CENTERS:

TORONTO: 191 McNABB STREET, MARKHAM, ONTARIO L3R 8H2, CANADA – TEL: (905) 470- 5400 MONTREAL: 18050 TRANS CANADA, KIRKLAND, QUEBEC, H9J 4A1, CANADA – TEL: (514) 390-7766 VANCOUVER: 22171 FRASERWOOD WAY, RICHMOND, B.C., V6W 1J5, CANADA – TEL: (604) 303-2500

MANUFACTURED BY TOSHIBA AMERICA CONSUMER PRODUCTS, L.L.C.

ColorStream and StableSound are registered trademarks of Toshiba America Consumer Products, L.L.C. CableClear, TouchFocus, and SurfLock are trademarks of Toshiba America Consumer Products, L.L.C.



PRINTED IN USA (04-01) R