TOSHIBA

OWNER'S MANUAL **Color Television**



1619 COLOR STREAM WOW.



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.

	******	W. 24		****	
M	000	\circ	11100	127	

Serial number:

34HDX82

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
RISK OF ELECTRIC SHOCK
DO NOT OPEN



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 24 and 25 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 32 on page 4.

Child Safety

It Makes A Difference Where Your TV Stands



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

The Issue

- ☐ If you are like most Americans, 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!



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

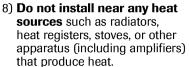
- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.



5) Do not use this apparatus near water.



- 6) Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.





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. **CAUTION:** To reduce the risk of electric sho

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.

10) Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where it exits the apparatus.



- 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.



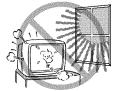
Installation

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

15) 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.

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.

17) 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).



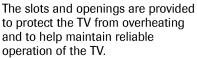
18) Always place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit.



 Never place items such as vases, aquariums, or candles on top of the TV.



- 20) 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.





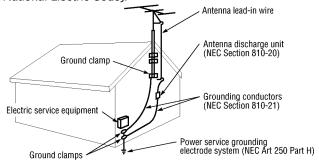
- 21) Never allow anything to rest on or roll over the power cord, and never place the TV where the power cord is subject to wear or abuse.
- 22) Never overload wall outlets and extension cords.



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



24) 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).



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:

- 26) 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.
- 27) Always unplug the TV before cleaning. Never use liquid or aerosol cleaners.



28) WARNING: RISK OF ELECTRIC SHOCK!
Never spill liquids or push objects of any kind

into the TV cabinet slots.

- 29) [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.
- 30) 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.
- 31) 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.
- 32) 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

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.

34) If you have the TV serviced:

 Ask the service technician to use only replacement parts specified by the manufacturer.

> REPLACEMENT PARTS!

 Upon completion of service, ask the service technician to perform routine safety checks to determine that the TV is in safe operating condition.

35) 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.

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Introduction

Welcome to Toshiba

Congratulations! You have purchased one of the finest color 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.

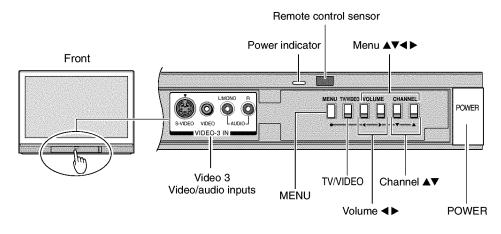
This manual applies to model 34HDX82. The model and serial numbers are on the back of your TV. Record these numbers in the spaces provided on the front cover of this manual for your records. Refer to these numbers whenever you communicate with your Toshiba dealer about this TV.

Instructions in this manual are based on using the remote control. You also can 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 this manual for future reference.

Exploring your new TV

You can operate your TV using the buttons on the front panel or 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 page 7.



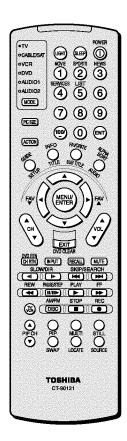
Note Regarding Quick Connect Guide

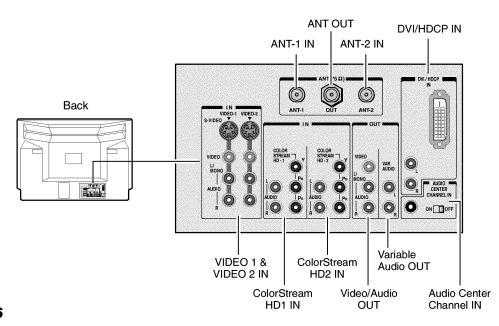
The Quick Connect Guide

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

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

See page 24 for details.





Connecting your TV

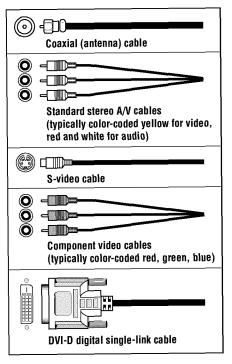
Note: Cables are not provided with your TV.

- Coaxial cable is the cable that comes in from your antenna, cable TV service, or cable converter box. Coaxial cable uses "F" connectors.
- Standard stereo A/V 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. Your TV's 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 connector.
- Component video cables come in sets of three (typically color-coded red, green, and blue), and are for use with video equipment that has component video connectors. Your TV's ColorStream® (component video) inputs are color-coded in the same manner as the cables
- DVI-D digital single-link cable is for use with video equipment that has a DVI-D digital single-link connector (see page 13).

NOTE REGARDING PICTURE QUALITY

When connecting video equipment to your Toshiba TV:

- For GOOD picture quality: Use a standard yellow stereo A/V video cable.
- For BETTER picture quality: If your equipment has an S-video connector, 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 a 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 connectors, use component video cables *instead* of a standard yellow video cable or S-video cable (plus the standard red and white audio cables for full system connection.) If your equipment has a **DVI-D** digital single-link connector, use a DVI-D cable (plus standard red and white audio cables connected to "DVI/HDCP IN" for full system connection).



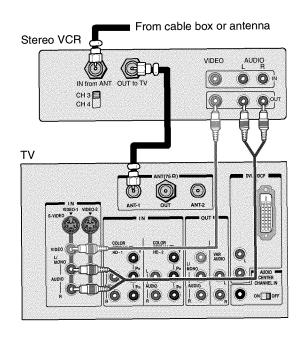
CAUTION: Do not plug in any power cords until you have finished connecting all equipment.

Connecting a VCR

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

You will need:

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



Note:

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

If you have an S-VHS VCR, use an S-video cable instead of a standard video cable.

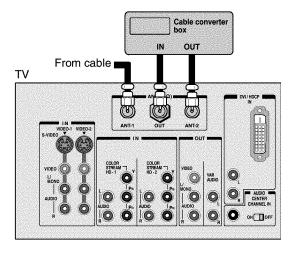
Do not connect a standard video cable and an S-video cable to Video-1 (or Video-2) at the same time, or the picture performance will be unacceptable.

Connecting a cable converter box

This connection allows you to watch basic and premium cable channels.

To 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



Note:

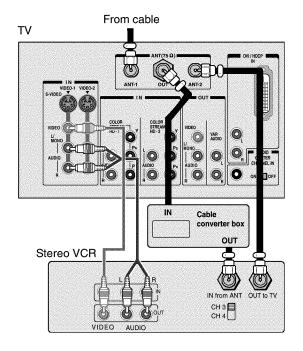
When you use a converter box with your TV, the remote control will not operate some features, such as programming your favorite channels, labeling channels, and locking channels.

Connecting a cable converter box and a 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 use the TV's features, select ANT-1. To view or record premium channels 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 standard A/V cables



Note:

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

If you have an S-VHS VCR, use an S-video cable 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.

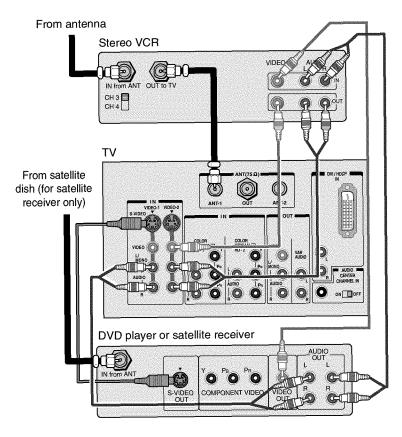
When you use a converter box with your TV, the remote control will not operate some features, such as programming your favorite channels, labeling channels, and locking channels.

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 (or three, if satellite receiver is used) coaxial cables
- two sets of standard A/V cables
- · one pair of standard audio cables
- one S-video cable



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 10. If your set-top box has component video, see page 11. If your DVD player or satellite receiver has DVI/HDCP, see page 13.)

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. (The illustration at left shows 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 (such as a Toshiba DVD player with ColorStream®) can greatly enhance picture quality and realism.

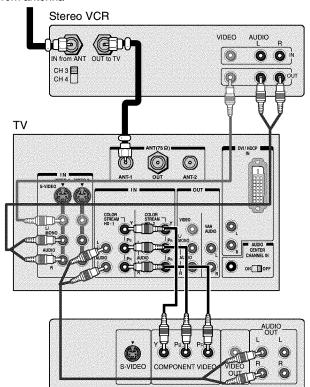
To record one TV program while watching another TV program, tune the VCR to the channel to record, and tune the TV to the channel to watch.

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 25).

You will need:

- two coaxial cables
- one set of standard A/V cables
- one pair of standard audio cables
- one set of component video cables

From antenna



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 component video cables to either ColorStream jack on the TV (HD1 or HD2).

For DVI/HDCP connection, see page 13. 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 9).

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/set-top box with component video 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 25).

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 standard A/V cables
- one pair of standard audio cables
- one set of component video cables

Note:

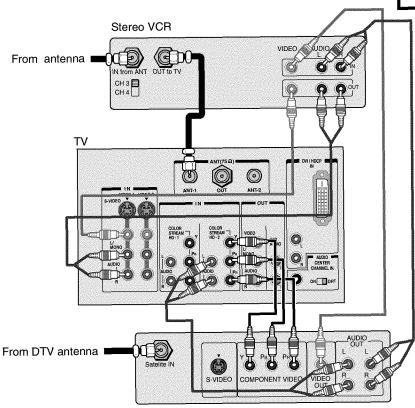
For the highest possible picture quality, use component video cables (or a DVI-D digital single-link cable) between the TV and DTV receiver/set-top box.

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

For DVI/HDCP connection, see page 13.
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 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 9).

To monitor recording, set the TV to VIDEO 1.



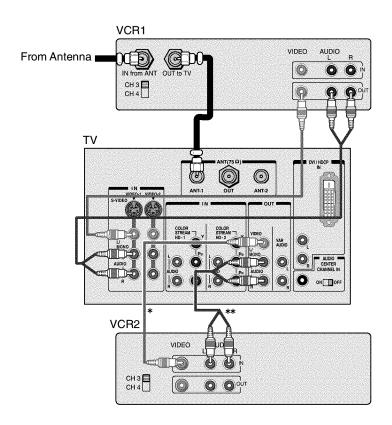
DTV receiver with component video

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 one TV channel while watching another TV channel.

You will need:

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

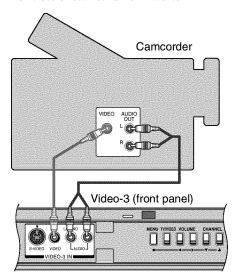


Connecting a camcorder

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

You will need:

• one set of standard A/V cables



Note:

If you have S-VHS VCRs, 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 25).

- * 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 52).

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 an S-VHS camcorder, use an S-video cable instead of the standard video cable. Do not connect both 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

DVI/HDCP device

- 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

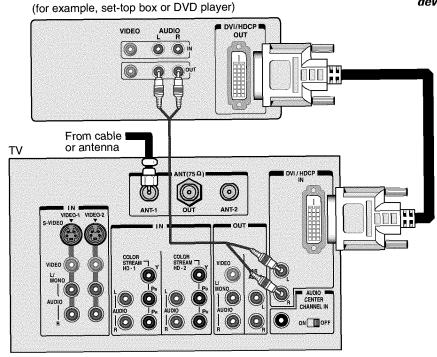
Notes

- 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.



Connecting an audio system

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 52).

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.

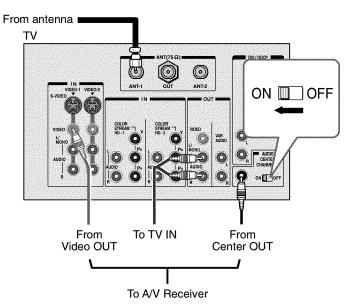
Connecting an A/V receiver

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



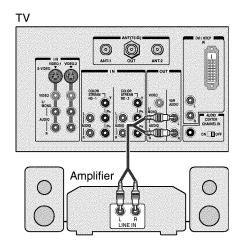
Note:

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.

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

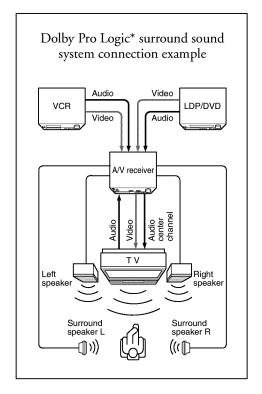
To use the TV speakers as normal speakers, set the Audio Center Channel ON/OFF switch to the OFF position.



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 is a registered trademark of Dolby Laboratories Licensing Corporation.

Preparing the remote control for use

Your Toshiba TV remote control has one dedicated TV mode and five universal modes: VCR, Cable/SAT, DVD, Audio1, and Audio2. The target devices and default devices being programmed for each mode are as follows:

Target device/Mode mapping

Mode	Device
TV	Toshiba TV
CABLE/SAT	Universal Cable, Satellite
VCR	Universal VCR, DVD, LD, Cassette
DVD	Universal DVD, VCR, LD, Cassette
AUDIO1	Universal Audio: Amp., Tuner, Misc.Audio, CD/MD
AUDIO2	Universal Audio: CD/MD, Amp., Tuner, Misc.Audio

Default device codes

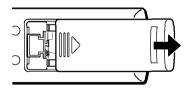
Mode	Default device
TV	Toshiba TV
CABLE/SAT	Toshiba Satellite receiver
VCR	Toshiba VCR
DVD	Toshiba DVD
AUDIO1	Pioneer Audio receiver
AUDIO2	Pioneer LD

Repeatedly press MODE to cycle among the modes. If you own different brands of audio/video devices, you must first program your remote control (see "Programming the remote control for use with your audio/video devices" on page 18).

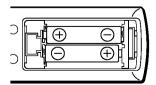
Installing the remote control batteries

To install the batteries:

1. Slide the battery cover off the back of the remote control.



2. Install two "AA" size alkaline batteries. Match the + and – signs on the batteries to the signs on the battery compartment.

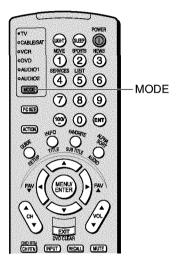


3. Slide the battery cover back on to the remote control until the lock snaps.

Note:

Your TV's remote control may not operate certain features on your VCR, cable TV converter, or other electronic device.

Refer to the owner's manuals for your other devices to determine their available features. If your TV's remote control does not operate a specific feature on a device, use the remote control that came with the device.



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 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:

 Battery life expectancy is about one year with normal use.

Remote Control functional key chart

Nemote Con				I.C.D.	DI/D/I D	ъ.	CD/L(D	
Key Label	Toshiba TV (TV)	Cable (CBL/SAT)	Satellite (CBL/SAT)	VCR	DVD/LD	Receiver (AUDIO)	(AUDIO)	Cassete (VCR)
LIGHT			toggles betw	een enabled a	l nd disabled II			reig
SLEEP	Sleep timer							
POWER	Power	Power	Power	Power	Power	Power	Power	Power
1/MOVIE	Digit 1	Digit 1	Digit 1	Digit 1	Digit 1	AV input 1	Digit 1	Digit 1
2/SPORTS	Digit 2	Digit 2	Digit 2	Digit 2	Digit 2	AV input 2	Digit 2	Digit 2
3/NEWS	Digit 3	Digit 3	Digit 3	Digit 3	Digit 3	AV input 3	Digit 3	Digit 3
4/SERVICES	Digit 4	Digit 4	Digit 4	Digit 4	Digit 4	AV input 4	Digit 4	Digit 4
5/LIST	Digit 5	Digit 5	Digit 5	Digit 5	Digit 5	CD	Digit 5	Digit 5
6	Digit 6	Digit 6	Digit 6	Digit 6	Digit 6	Tuner	Digit 6	Digit 6
MODE	Remote con	trol device m	ode selection					•
PIC SIZE	Selects the image shape.	← TV	← TV	← TV	← TV	← TV	<tv< td=""><td>< TV</td></tv<>	< TV
7	Digit 7	Digit 7	Digit 7	Digit 7	Digit 7	Phono	Digit 7	Digit 7
8	Digit 8	Digit 8	Digit 8	Digit 8	Digit 8	Cassette	Digit 8	Digit 8
9	Digit 9	Digit 9	Digit 9	Digit 9	Digit 9	Aux	Digit 9	Digit 9
ACTION			Action, Menu		Menu			
100/-	100		100	100	100	100	100	100
0	Digit 0	Digit 0	Digit 0	Digit 0	Digit 0	Digit 0	Digit 0	Digit 0
ENT		CH Enter	CH Enter	CH Enter				
GUIDE/SETUP			Guide		DVD setup			
INFO/TITLE			INFO		TITLE= Top menu	and and and	uto um uto	
FAVORITE/ SUBTITLE	Favorite CH	3	Favorite CH	***	Subtitle			
ALPHASORT/ AUDIO		***	Alphasort		Audio	utin salar salar		
MENU/ ENTER	Menu open/ Enter		Select		Enter	. Also para apar	and the same	
ΔΨ	Menu select		Menu select		Menu select			
∢►/FAV ▼▲	Menu select/ FAV ▼ ▲		Menu select	an un	Menu select	and the same of th		
VOL A ▼	Volume up/down*	Volume up/down*	Volume up/down*	Volume up/down*	Volume up/down*	Volume up/down*	Volume up/down*	
EXIT/ DVD CLEAR	Exit	Exit	Exit	Exit	DVD clear	Exit/Clear	Exit/Clear	Exit/Clear
CH ▲▼	Channel up/down	Channel up/down	Channel up/down	Channel up/down		Channel up/down	alle que que	
INPUT	TV/Video select	← TV	← TV	VCR input	← TV	Input	< TV	< TV
MUTE	Sound mute*	Sound mute*	Sound mute*	Sound mute*	Sound mute*	Sound mute*	Sound mute*	
RECALL	On-screen display		On-screen display	On-screen display	On-screen display			
CH RTN/ DVD RTN	Previous channel	Previous channel	Previous channel	Previous channel	DVD return	ade and qui		
SLOW/ ► DIR ◀				Forward 	Forward Reverse			uni uni uni
SKIP/ SEARCH ◀		30 SEC 30	, and , and , and		Forward Reverse	aper upo aper	Forward Reverse	Forward Reverse
REW	$VCR \longrightarrow$	$VCR \longrightarrow$	$VCR \longrightarrow$	Rewind	Rewind	Rewind	Rewind	Rewind
PAUSE/STEP	$VCR \longrightarrow$	$VCR \longrightarrow$	$VCR \longrightarrow$	Pause	Pause	Pause	Pause	Pause
PLAY	VCR>	VCR>	$VCR \longrightarrow$	Play	Play	Play	Play	Play
FF	$VCR \longrightarrow$	$VCR \longrightarrow$	$VCR \longrightarrow$	F. Forward	F. Forward	F. Forward	F. Forward	F. Forward

TV/VCK	VCK-		1 V/3A1	1 V/VCK				Reverse
AM/FM DISC					Disc shift	AM/FM	Disc shift	Deck side A/B switch
STOP	VCR>	VCR>	VCR>	Stop	Stop	Stop	Stop	Stop
REC**	VCR>	VCR>	VCR>	Record**		Record**	Record**	Record**
PIP CH ▲▼	PIP channel up/down	←TV	← TV	< TV	← TV	< TV	< TV	← TV
PIP	PIP on/off	←TV	← TV	← TV	← TV	← TV	← TV	← TV
MULTI	Strobe	←TV	← TV	< TV	← TV	< TV	← TV	← TV
STILL	PIP Still	←—— TV	← TV	< TV	< TV	← TV	← TV	← TV
SWAP	PIP Swap	←—— TV	← TV	< TV	< TV	← TV	< TV	← TV
LOCATE	PIP Locate	←TV	← TV	← TV	← TV	← TV	← TV	← TV
SOURCE	PIP Source	←TV	← TV	← TV	< TV	← TV	< TV	← TV

Notes:

- · "---" will send nothing.
- "<--- TV" will jump to TV.
- "——>VCR" will jump to last active VCR or DVD. Active VCR/DVD is defined as the mode that remains for a minimum of 5 seconds, or if a key is pressed in that mode.
- * The VOLUME and MUTE will jump to "TV" by default. When the volume is unlocked, all the devices will have their own volume. The AUDIO1/2 (Receiver, CD) modes will have their own volume even if Volume Lock is on TV, CABLE/SAT, VCR, or DVD. See "Using the Volume Lock feature" on page 19.
- ** Press the REC button two times within 5 seconds to record each A/V source.

Programming the remote control for use with your audio/video devices

Device code setup

- 1. Refer to the Device code table on pages 20–21 to find the code for the brand of your device.
 - If more than one code is listed, try each one separately until you find the one that works.
- 2. Press MODE until the Mode indicator of the device (CABLE/SAT, VCR, DVD, AUDIO1, AUDIO2) lights up.
- 3. While holding down the RECALL button, press the Channel Number buttons to enter the four-digit code of your brand of device. If a valid code is entered, the mode indicator will blink twice. If an invalid code is entered, the mode indicator will blink one long blink.
- 4. Point the remote control at the device and press POWER to test the code.
 - If the device turns on, you have entered the correct code. If the device does not respond to the remote control, you may have entered the wrong code. Repeat steps 3 and 4 using another code.
- 5. Press MODE to select the TV mode to control the TV.

Note:

- Every time you replace the batteries, you must reprogram the remote control.
- Some newer VCRs are capable of working on either of two remote codes. These VCRs have a switch labeled "VCR1/VCR2."

If your VCR has this kind of switch and does not respond to any of the codes for your VCR brand, set the switch to the other position (VCR1 or VCR2) and reprogram the remote control

Searching and sampling the code of a device (8500)

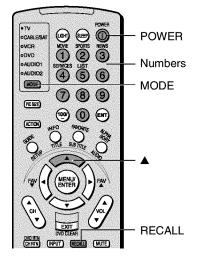
If you do not know the device code for a particular target unit, you can cycle the remote control through the available codes for that device mode and sample the functions to find the code that properly operates the target device. The keys available to be sampled, provided they are applicable to that mode, are POWER, 1, VOL ♠, CH ♠, and PLAY. Invalid keys will be ignored while in program mode.

To cycle through each available device code and sample its functions:

- 1. Press MODE to select the mode you want to set up.
- 2. While holding down the RECALL button, press 8 –5 –0 –0. The remote control will enter program mode.
- 3. Point the remote control at the target device and press POWER (or other function buttons that are available to be sampled).
- 4. If the device responds to the remote control:
 Press RECALL to store the device code.
 The mode indicator will blink twice and the remote control will exit the program mode.

If the device does not respond to the remote control:
Press ▲, and then press POWER.
Repeat this step until the device responds to the remote control, and then press RECALL.

Note: When a search cycle is completed, the mode indicator will blink three times. The remote control will begin to cycle through the available codes again. If no key is pressed within 10 seconds while programming, the remote control will exit the program mode and return to the previous code.



selected device mode. This feature does not apply to the AUDIO1/2 modes.

For example, to lock the volume controls to always jump to the CABLE/SAT mode:

- 1. Repeatedly press MODE to select the CABLE/SAT mode.
- 2. While holding down the RECALL button, press 8-0-0-0.
- 3. Press VOL ▲.

 The Mode indicator will blink two times (locked).

The following table describes in more detail the Volume Lock implementation.

Volume Locked to	TV	CBL/SAT	VCR	DVD	AUD1	AUD2
TV (default)	TV	TV	TV	TV	AUD1	AUD2
CBL/SAT	CBL/SAT	CBL/SAT	CBL/SAT	CBL/SAT	AUD1	AUD2
VCR	VCR	VCR	VCR	VCR	AUD1	AUD2
DVD	DVD	DVD	DVD	DVD	AUD1	AUD2
AUD1	AUD1	AUD1	AUD1	AUD1	AUD1	AUD1
AUD2	AUD2	AUD2	AUD2	AUD2	AUD2	AUD2

To reset the volume controls to the original device code:

- 1. While holding down the RECALL button, press 8-0-0-0.
- 2. Press VOL ▼.

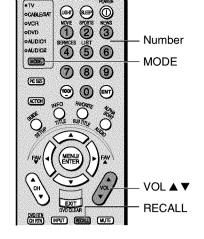
 The Mode indicator will blink four times (unlocked).

Operational feature reset (8900)

This feature clears all setup features not related to "Device code set up" and resets the Volume Lock to "TV."

To reset the features:

While holding down the RECALL button, press 8-9-0-0. The Mode indicator will blink two times, and then pause and blink two more times.



ADMIRAL AIWA AKAI AUDIO DYNAMIC BELL&HOWELL BROKSONIC CANON CCE CITIZEN CRAIG CURTIS MATHES DAEWOO DBX DIMENSIA EMERSON FISHER GE GO VIDEO	Code 0135 0127, 0132, 0181 0129, 0114, 0115, 0116 0139, 0111 0105, 0113 0120, 0126, 0180 0123, 0125 0143 0106 0105, 0129, 0106 0145, 0124, 0127 0143, 0101, 0124, 0175 0139, 0110, 0111 0145 0143, 0126, 0119, 0103, 0125, 0142, 0120, 0118 0105, 0108, 0109, 0107, 0113, 0165 0127, 0126, 0120, 0134 0133, 0145, 0124 0137, 0151, 0163,	PHILCO PHILIPS PIONEER PROSCAN QUASAR RADIO SHACK RCA REALISTIC SAMSUNG	0131, 0124, 0127, 0123, 0126, 0120, 0143 0131, 0123, 0124, 0173 0123 0145, 0100, 0123, 0124, 0131, 0102, 0133, 0174 0121, 0122, 0123, 0124 0133, 0124, 0105, 0136, 0109, 0140, 0127 0133, 0145, 0100, 0123, 0124, 0105, 0136, 0109, 0140, 0127 0133, 0145, 0100, 0123, 0124, 0131, 0146, 0101, 0102, 0170, 0172, 0174, 0176, 0183 0124, 0105, 0136,	Brand ABC ARCHER CABLEVIEW CITIZEN CURTIS DIAMOND EAGLE EASTERN GCBRAND GEMINI G.I./JERROLD HAMLIN HITACHI MACOM MAGNAVOX	Code 1124 1132, 1125 1105, 1132 1122, 1105 1112, 1113 1124, 1132, 1125 1129 1134 1132, 1105 1122, 1143 1119, 1124, 1125 1126, 1127, 1120 1121, 1122, 1111 1123, 1152 1140, 1141, 1142 1145, 1118, 1112 1103, 1124 1103, 1104, 1105
ADMIRAL AIWA AKAI AUDIO DYNAMIC BELL&HOWELL BROKSONIC CANON CCE CITIZEN CRAIG CURTIS MATHES DAEWOO DBX DIMENSIA EMERSON FISHER GUA GUA GUA GUA GUA GUA GUA GUA GUA GU	0135 0127, 0132, 0181 0129, 0114, 0115, 0116 0139, 0111 0105, 0113 0120, 0126, 0180 0123, 0125 0143 0106 0105, 0129, 0106 0145, 0124, 0127 0143, 0101, 0124, 0175 0139, 0110, 0111 0145 0143, 0126, 0119, 0103, 0125, 0142, 0120, 0118 0105, 0108, 0109, 0107, 0131, 0165 0127, 0126, 0120, 0134 0133, 0145, 0124	PHILIPS PIONEER PROSCAN QUASAR RADIO SHACK RCA	0123, 0126, 0120, 0143 0131, 0123, 0124, 0173 0123 0145, 0100, 0123, 0124, 0101, 0102, 0133, 0174 0121, 0122, 0123, 0124 0133, 0124, 0105, 0136, 0109, 0140, 0127 0133, 0145, 0100, 0123, 0124, 0105, 0136, 0109, 0140, 0127 0133, 0124, 0105, 0107, 0172, 0174, 0176, 0183	ARCHER CABLEVIEW CITIZEN CURTIS DIAMOND EAGLE EASTERN GCBRAND GEMINI G.I./JERROLD HAMLIN HITACHI MACOM	1124 1132, 1125 1105, 1132 1122, 1105 1112, 1113 1124, 1132, 1125 1129 1134 1132, 1105 1122, 1143 1119, 1124, 1125 1126, 1127, 1120 1121, 1122, 1111 1123, 1152 1140, 1141, 1142 1145, 1118, 1112 1103, 1124 1103, 1104, 1105 1108
AIWA AKAI AUDIO DYNAMIC BELL&HOWELL BROKSONIC CANON CCE CITIZEN CRAIG CURTIS MATHES DAEWOO DBX DIMENSIA EMERSON FISHER GUNAI GE GO VIDEO	0127, 0132, 0181 0129, 0114, 0115, 0116 0139, 0111 0105, 0113 0120, 0126, 0180 0123, 0125 0143 0106 0105, 0129, 0106 0145, 0124, 0127 0143, 0101, 0124, 0175 0139, 0110, 0111 0145 0143, 0126, 0119, 0103, 0125, 0142, 0120, 0118 0105, 0108, 0109, 0107, 0113, 0165 0127, 0126, 0120, 0134 0133, 0145, 0124	PIONEER PROSCAN QUASAR RADIO SHACK RCA	0123, 0126, 0120, 0143 0131, 0123, 0124, 0173 0123 0145, 0100, 0123, 0124, 0101, 0102, 0133, 0174 0121, 0122, 0123, 0124 0133, 0124, 0105, 0136, 0109, 0140, 0127 0133, 0145, 0100, 0123, 0124, 0105, 0136, 0109, 0140, 0127 0133, 0124, 0105, 0107, 0172, 0174, 0176, 0183	ARCHER CABLEVIEW CITIZEN CURTIS DIAMOND EAGLE EASTERN GCBRAND GEMINI G.I./JERROLD HAMLIN HITACHI MACOM	1132, 1125 1105, 1132 1122, 1105 1112, 1113 1124, 1132, 1125 1129 1134 1132, 1105 1122, 1143 1119, 1124, 1125 1126, 1127, 1120 1121, 1122, 1111 1123, 1152 1140, 1141, 1142 1145, 1118, 1112 1103, 1124 1103, 1104, 1105 1108
AKAI AUDIO DYNAMIC BELL&HOWELL BROKSONIC CANON CCE CITIZEN CRAIG CURTIS MATHES DAEWOO DBX DIMENSIA EMERSON FISHER FUNAI GE GO VIDEO	0129, 0114, 0115, 0116 0139, 0111 0105, 0113 0120, 0126, 0180 0123, 0125 0143 0106 0105, 0129, 0106 0145, 0124, 0127 0143, 0101, 0124, 0175 0139, 0110, 0111 0145 0143, 0126, 0119, 0103, 0125, 0142, 0120, 0118 0105, 0108, 0109, 0107, 0113, 0165 0127, 0126, 0120, 0134 0133, 0145, 0124	PIONEER PROSCAN QUASAR RADIO SHACK RCA	0143 0131, 0123, 0124, 0173 0123 0145, 0100, 0123, 0124, 0131, 0146, 0101, 0102, 0133, 0174 0121, 0122, 0123, 0124 0133, 0124, 0105, 0136, 0109, 0140, 0127 0133, 0145, 0100, 0123, 0124, 0131, 0146, 0101, 0102, 0170, 0172, 0174, 0176, 0183	CABLEVIEW CITIZEN CURTIS DIAMOND EAGLE EASTERN GCBRAND GEMINI G.I./JERROLD HAMLIN HITACHI MACOM	1105, 1132 1122, 1105 1112, 1113 1124, 1132, 1125 1129 1134 1132, 1105 1122, 1143 1119, 1124, 1125 1126, 1127, 1120 1121, 1122, 1111 1123, 1152 1140, 1141, 1142 1145, 1118, 1112 1103, 1124 1103, 1104, 1105 1108
AUDIO DYNAMIC BELL&HOWELL BROKSONIC CANON CCE CITIZEN CRAIG CURTIS MATHES DAEWOO DBX DIMENSIA EMERSON FISHER FUNAI GE GO VIDEO	0116 0139, 0111 0105, 0113 0120, 0126, 0180 0123, 0125 0143 0106 0105, 0129, 0106 0145, 0124, 0127 0143, 0101, 0124, 0175 0139, 0110, 0111 0145 0143, 0126, 0119, 0103, 0125, 0142, 0120, 0118 0105, 0108, 0109, 0107, 0113, 0165 0127, 0126, 0120, 0134 0133, 0145, 0124	PIONEER PROSCAN QUASAR RADIO SHACK RCA	0173 0123 0145, 0100, 0123, 0124, 0131, 0146, 0101, 0102, 0133, 0174 0121, 0122, 0123, 0124 0133, 0124, 0105, 0136, 0109, 0140, 0127 0133, 0145, 0100, 0123, 0124, 0131, 0146, 0101, 0102, 0170, 0172, 0174, 0176, 0183	CITIZEN CURTIS DIAMOND EAGLE EASTERN GCBRAND GEMINI G.I./JERROLD HAMLIN HITACHI MACOM	1122, 1105 1112, 1113 1124, 1132, 1125 1129 1134 1132, 1105 1122, 1143 1119, 1124, 1125 1126, 1127, 1120 1121, 1122, 1111 1123, 1152 1140, 1141, 1142 1145, 1118, 1112 1103, 1124 1103, 1104, 1105 1108
AUDIO DYNAMIC BELL&HOWELL BROKSONIC CANON CCE CITIZEN CRAIG CURTIS MATHES DAEWOO DBX DIMENSIA EMERSON FISHER FUNAI GE GO VIDEO	0139, 0111 0105, 0113 0120, 0126, 0180 0123, 0125 0143 0106 0105, 0129, 0106 0145, 0124, 0127 0143, 0101, 0124, 0175 0139, 0110, 0111 0145 0143, 0126, 0119, 0103, 0125, 0142, 0120, 0118 0105, 0108, 0109, 0107, 0113, 0165 0127, 0126, 0120, 0134 0133, 0145, 0124	PIONEER PROSCAN QUASAR RADIO SHACK RCA	0173 0123 0145, 0100, 0123, 0124, 0131, 0146, 0101, 0102, 0133, 0174 0121, 0122, 0123, 0124 0133, 0124, 0105, 0136, 0109, 0140, 0127 0133, 0145, 0100, 0123, 0124, 0131, 0146, 0101, 0102, 0170, 0172, 0174, 0176, 0183	CURTIS DIAMOND EAGLE EASTERN GCBRAND GEMINI G.I./JERROLD HAMLIN HITACHI MACOM	1112, 1113 1124, 1132, 1125 1129 1134 1132, 1105 1122, 1143 1119, 1124, 1125 1126, 1127, 1120 1121, 1122, 1111 1123, 1152 1140, 1141, 1142 1145, 1118, 1112 1103, 1124 1103, 1104, 1105 1108
BELL&HOWELL BROKSONIC CANON CCE CITIZEN CRAIG CURTIS MATHES DAEWOO DBX DIMENSIA EMERSON FISHER FUNAI GE GO VIDEO	0105, 0113 0120, 0126, 0180 0123, 0125 0143 0106 0105, 0129, 0106 0145, 0124, 0127 0143, 0101, 0124, 0175 0139, 0110, 0111 0145 0143, 0126, 0119, 0103, 0125, 0142, 0120, 0118 0105, 0108, 0109, 0107, 0113, 0165 0127, 0126, 0120, 0134 0133, 0145, 0124	PROSCAN QUASAR RADIO SHACK RCA REALISTIC	0123 0145, 0100, 0123, 0124, 0131, 0146, 0101, 0102, 0133, 0174 0121, 0122, 0123, 0124 0133, 0124, 0105, 0136, 0109, 0140, 0127 0133, 0145, 0100, 0123, 0124, 0131, 0146, 0101, 0102, 0170, 0172, 0174, 0176, 0183	DIAMOND EAGLE EASTERN GCBRAND GEMINI G.I./JERROLD HAMLIN HITACHI MACOM	1124, 1132, 1125 1129 1134 1132, 1105 1122, 1143 1119, 1124, 1125 1126, 1127, 1120 1121, 1122, 1111 1123, 1152 1140, 1141, 1142 1145, 1118, 1112 1103, 1124 1103, 1104, 1105 1108
BROKSONIC CANON CCE CITIZEN CRAIG CURTIS MATHES DAEWOO DBX DIMENSIA EMERSON FISHER FUNAI GE GO VIDEO	0120, 0126, 0180 0123, 0125 0143 0106 0105, 0129, 0106 0145, 0124, 0127 0143, 0101, 0124, 0175 0139, 0110, 0111 0145 0143, 0126, 0119, 0103, 0125, 0142, 0120, 0118 0105, 0108, 0109, 0107, 0113, 0165 0127, 0126, 0120, 0134 0133, 0145, 0124	PROSCAN QUASAR RADIO SHACK RCA REALISTIC	0145, 0100, 0123, 0124, 0131, 0146, 0101, 0102, 0133, 0174 0121, 0122, 0123, 0124 0133, 0124, 0105, 0136, 0109, 0140, 0127 0133, 0145, 0100, 0123, 0124, 0131, 0146, 0101, 0102, 0170, 0172, 0174, 0176, 0183	EAGLE EASTERN GCBRAND GEMINI G.I./JERROLD HAMLIN HITACHI MACOM	1129 1134 1132, 1105 1122, 1143 1119, 1124, 1125 1126, 1127, 1120 1121, 1122, 1111 1123, 1152 1140, 1141, 1142 1145, 1118, 1112 1103, 1124 1103, 1104, 1105 1108
CANON CCE CITIZEN CRAIG CURTIS MATHES DAEWOO DBX DIMENSIA EMERSON FISHER FUNAI GE GO VIDEO	0123, 0125 0143 0106 0105, 0129, 0106 0145, 0124, 0127 0143, 0101, 0124, 0175 0139, 0110, 0111 0145 0143, 0126, 0119, 0103, 0125, 0142, 0120, 0118 0105, 0108, 0109, 0107, 0113, 0165 0127, 0126, 0120, 0134 0133, 0145, 0124	QUASAR RADIO SHACK RCA REALISTIC	0124, 0131, 0146, 0101, 0102, 0133, 0174 0121, 0122, 0123, 0124 0133, 0124, 0105, 0136, 0109, 0140, 0127 0133, 0145, 0100, 0123, 0124, 0131, 0146, 0101, 0102, 0170, 0172, 0174, 0176, 0183	EASTERN GCBRAND GEMINI G.I./JERROLD HAMLIN HITACHI MACOM	1134 1132, 1105 1122, 1143 1119, 1124, 1125 1126, 1127, 1120 1121, 1122, 1111 1123, 1152 1140, 1141, 1142 1145, 1118, 1112 1103, 1124 1103, 1104, 1105 1108
CCE CITIZEN CRAIG CURTIS MATHES DAEWOO DBX DIMENSIA EMERSON FISHER FUNAI GE GO VIDEO	0143 0106 0105, 0129, 0106 0145, 0124, 0127 0143, 0101, 0124, 0175 0139, 0110, 0111 0145 0143, 0126, 0119, 0103, 0125, 0142, 0120, 0118 0105, 0108, 0109, 0107, 0113, 0165 0127, 0126, 0120, 0134 0133, 0145, 0124	RADIO SHACK RCA REALISTIC	0101, 0102, 0133, 0174 0121, 0122, 0123, 0124 0133, 0124, 0105, 0136, 0109, 0140, 0127 0133, 0145, 0100, 0123, 0124, 0131, 0146, 0101, 0102, 0170, 0172, 0174, 0176, 0183	GCBRAND GEMINI G.I./JERROLD HAMLIN HITACHI MACOM	1132, 1105 1122, 1143 1119, 1124, 1125 1126, 1127, 1120 1121, 1122, 1111 1123, 1152 1140, 1141, 1142 1145, 1118, 1112 1103, 1124 1103, 1104, 1105 1108
CITIZEN CRAIG CURTIS MATHES DAEWOO DBX DIMENSIA EMERSON FISHER FUNAI GE GO VIDEO	0106 0105, 0129, 0106 0145, 0124, 0127 0143, 0101, 0124, 0175 0139, 0110, 0111 0145 0143, 0126, 0119, 0103, 0125, 0142, 0120, 0118 0105, 0108, 0109, 0107, 0131, 0165 0127, 0126, 0120, 0134 0133, 0145, 0124	RADIO SHACK RCA REALISTIC	0174 0121, 0122, 0123, 0124 0133, 0124, 0105, 0136, 0109, 0140, 0127 0133, 0145, 0100, 0123, 0124, 0131, 0146, 0101, 0102, 0170, 0172, 0174, 0176, 0183	GEMINI G.I./JERROLD HAMLIN HITACHI MACOM	1122, 1143 1119, 1124, 1125 1126, 1127, 1120 1121, 1122, 1111 1123, 1152 1140, 1141, 1142 1145, 1118, 1112 1103, 1124 1103, 1104, 1105 1108
CRAIG CURTIS MATHES DAEWOO DBX DIMENSIA EMERSON FISHER FUNAI GE GO VIDEO	0105, 0129, 0106 0145, 0124, 0127 0143, 0101, 0124, 0175 0139, 0110, 0111 0145 0143, 0126, 0119, 0103, 0125, 0142, 0120, 0118 0105, 0108, 0109, 0107, 0131, 0165 0127, 0126, 0120, 0134 0133, 0145, 0124	RADIO SHACK RCA REALISTIC	0121, 0122, 0123, 0124 0133, 0124, 0105, 0136, 0109, 0140, 0127 0133, 0145, 0100, 0123, 0124, 0131, 0146, 0101, 0102, 0170, 0172, 0174, 0176, 0183	G.I./JERROLD HAMLIN HITACHI MACOM	1119, 1124, 1125 1126, 1127, 1120 1121, 1122, 1111 1123, 1152 1140, 1141, 1142 1145, 1118, 1112 1103, 1124 1103, 1104, 1105 1108
CURTIS MATHES DAEWOO DBX DIMENSIA EMERSON FISHER FUNAI GE GO VIDEO	0145, 0124, 0127 0143, 0101, 0124, 0175 0139, 0110, 0111 0145 0143, 0126, 0119, 0103, 0125, 0142, 0120, 0118 0105, 0108, 0109, 0107, 0113, 0165 0127, 0126, 0120, 0134 0133, 0145, 0124	RADIO SHACK RCA REALISTIC	0124 0133, 0124, 0105, 0136, 0109, 0140, 0127 0133, 0145, 0100, 0123, 0124, 0131, 0146, 0101, 0102, 0170, 0172, 0174, 0176, 0183	HAMLIN HITACHI MACOM	1126, 1127, 1120 1121, 1122, 1111 1123, 1152 1140, 1141, 1142 1145, 1118, 1112 1103, 1124 1103, 1104, 1105 1108
DAEWOO OBX DIMENSIA EMERSON FISHER FUNAI GE GO VIDEO	0143, 0101, 0124, 0175 0139, 0110, 0111 0145 0143, 0126, 0119, 0103, 0125, 0142, 0120, 0118 0105, 0108, 0109, 0107, 0113, 0165 0127, 0126, 0120, 0134 0133, 0145, 0124	RCA REALISTIC	0133, 0124, 0105, 0136, 0109, 0140, 0127 0133, 0145, 0100, 0123, 0124, 0131, 0146, 0101, 0102, 0170, 0172, 0174, 0176, 0183	HITACHI MACOM	1121, 1122, 1111 1123, 1152 1140, 1141, 1142 1145, 1118, 1112 1103, 1124 1103, 1104, 1105 1108
DBX DIMENSIA EMERSON FISHER FUNAI GE GO VIDEO	0175 0139, 0110, 0111 0145 0143, 0126, 0119, 0103, 0125, 0142, 0120, 0118 0105, 0108, 0109, 0107, 0113, 0165 0127, 0126, 0120, 0134 0133, 0145, 0124	RCA REALISTIC	0136, 0109, 0140, 0127 0133, 0145, 0100, 0123, 0124, 0131, 0146, 0101, 0102, 0170, 0172, 0174, 0176, 0183	HITACHI MACOM	1123, 1152 1140, 1141, 1142 1145, 1118, 1112 1103, 1124 1103, 1104, 1105 1108
DBX DIMENSIA EMERSON FISHER FUNAI GE GO VIDEO	0139, 0110, 0111 0145 0143, 0126, 0119, 0103, 0125, 0142, 0120, 0118 0105, 0108, 0109, 0107, 0113, 0165 0127, 0126, 0120, 0134 0133, 0145, 0124	REALISTIC	0127 0133, 0145, 0100, 0123, 0124, 0131, 0146, 0101, 0102, 0170, 0172, 0174, 0176, 0183	HITACHI MACOM	1140, 1141, 1142 1145, 1118, 1112 1103, 1124 1103, 1104, 1105 1108
DIMENSIA EMERSON FISHER FUNAI GE GO VIDEO	0145 0143, 0126, 0119, 0103, 0125, 0142, 0120, 0118 0105, 0108, 0109, 0107, 0113, 0165 0127, 0126, 0120, 0134 0133, 0145, 0124	REALISTIC	0133, 0145, 0100, 0123, 0124, 0131, 0146, 0101, 0102, 0170, 0172, 0174, 0176, 0183	HITACHI MACOM	1145, 1118, 1112 1103, 1124 1103, 1104, 1105 1108
EMERSON FISHER FUNAI GE GO VIDEO	0143, 0126, 0119, 0103, 0125, 0142, 0120, 0118 0105, 0108, 0109, 0107, 0113, 0165 0127, 0126, 0120, 0134 0133, 0145, 0124	REALISTIC	0123, 0124, 0131, 0146, 0101, 0102, 0170, 0172, 0174, 0176, 0183	MACOM	1103, 1124 1103, 1104, 1105 1108
FISHER (FUNAI (GE GO VIDEO (GE	0103, 0125, 0142, 0120, 0118 0105, 0108, 0109, 0107, 0113, 0165 0127, 0126, 0120, 0134 0133, 0145, 0124		0146, 0101, 0102, 0170, 0172, 0174, 0176, 0183	MACOM	1103, 1104, 1105 1108
FISHER (FUNAI (GE GO VIDEO (GE	0103, 0125, 0142, 0120, 0118 0105, 0108, 0109, 0107, 0113, 0165 0127, 0126, 0120, 0134 0133, 0145, 0124		0170, 0172, 0174, 0176, 0183		1103, 1104, 1105 1108
FISHER (FUNAI (GE GO VIDEO (GE	0120, 0118 0105, 0108, 0109, 0107, 0113, 0165 0127, 0126, 0120, 0134 0133, 0145, 0124		0170, 0172, 0174, 0176, 0183		1108
FISHER FUNAI GE GO VIDEO	0105, 0108, 0109, 0107, 0113, 0165 0127, 0126, 0120, 0134 0133, 0145, 0124		0176, 0183	MAGNAVOX	
FUNAI (GE GO VIDEO	0107, 0113, 0165 0127, 0126, 0120, 0134 0133, 0145, 0124			TATE TO THE PARTY OF THE	1133
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		SAMTRON	0163		1151, 1153
COLDCEAD	0149, 0150, 0182	SANSUI	0139, 0126, 0120,		
	0106		0152	PHILIPS	1128, 1129, 1130
GRADIENTE	0170, 0171, 0168,	SANYO	0105, 0109, 0113		1106, 1107, 1150
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HITACHI	0123, 0145, 0100,		0109, 0138, 0140,	PIONEER	1101, 1116
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		OLA II W	0108, 0100, 0107,	REALISTIC	1132
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	0134, 0157, 0158,	SHARP	0135, 0136, 0167,	REGAL	1112, 1118, 1140
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	0109	SV2000	0127	S.A.	1111, 1112, 1113
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	0173		0127, 0178	SPRUCER	1105, 1110
	0139, 0110, 0111	SYMPHONIC	0127, 0168, 0177	STARGATE	1132, 1105
	0106	TASHIRO	0106	TELECAPTION	1148
	0124, 0109	TATUNG	0139, 0110, 0111	TELECAPTION	1101, 1105
		TEAC	0139, 0110, 0111		
	0138, 0140, 0147,	1 EAC		TEXSCAN	1144
	0148, 0141, 0142	TROUNTES	0111	TOCOM	1135, 1136, 1147
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	0148, 0141, 0142,	TEKNICA	0124, 0127, 0112	UNIVERSAL	1122, 1132
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MULTITECH	0147, 0127, 0104	TOSHIBA	0101, 0146, 0166,	VIEWSTAR	1129, 1130
	0139, 0110, 0111,		0160	ZENITH	1117, 1100
	0134	VECTOR RESEARCH		ZENITH/DRAKE	
	0124, 0123	WARDS	0135, 0136, 0109,	SATELLITE	1100
	0128, 0121, 0135,		0144, 0106		
	0126, 0121, 0133,	YAMAHA	0105, 0139, 0110,		
		1711/11/11/17	0103, 0139, 0110,		
	0126, 0120, 0132	ZENITU			
	0123, 0124, 0121,	ZENITH	0144, 0106, 0169,		
	0122		0180		
	0124, 0100, 0145,				
•	0105, 0139, 0110,				
	0111				
PENTAX	0100, 0111, 0145				

CD Player setu	p coaes
Brand	Code
ADMIRAL	6126
AIWA	6133, 6135
CARVER	6129
DENON	6142, 6151
EMERSON	6139
FISHER	6105, 6106
GARRARD	6117
HARMAN KARDON	6120, 6121, 6123,
	6119
HITACHI	6107
JENSEN	6134
JVC	6140, 6141, 6145,
	6148, 6151
KENWOOD	6100, 6101, 6111,
	6145
LXI	6136
MAGNAVOX	6129, 6132
MARANTZ	6129
MCINTOSH	6121
NAKAMICHI	6110
ONKYO	6114, 6115
OPTIMUS	6108, 6118, 6120,
	6122
PANASONIC	6124, 6125, 6127,
	6150
PHILIPS	6129, 6130, 6149
PIONEER	6108
QUASAR	6125, 6127, 6124
RCA	6147, 6137, 6138,
	6131, 6152
SANSUI	6110, 6146, 6113
SANYO	6105
SCOTT	6110, 6146
SHARP	6142, 6143
SHERWOOD	6120
SONY	6128
SOUNDE-SIGH	6144
TEAC	6112, 6116, 6118
TECHNICS	6127, 6124, 6125
VICTOR	6140, 6141, 6145
YAMAHA	6102, 6103, 6104

Receiver setup codes

Receiver Setup	00003
Brand	Code
ADMIRAL	4120
AIWA	4125, 4126, 4146
DENON	4134, 4135, 4136,
	4143
FISHER	4104
GARRARD	4113
HARMAN KARDON	4115, 4123, 4145
JENSEN	4129
JVC	4132, 4133, 4140,
	4144
KENWOOD	4100, 4108, 4141,
	4142, 4147
MAGNAVOX	4127, 4128
MARANTZ	4124
MCINTOSH	4116
MITSUBISHI	4148
NAKAMICHI	4106, 4117
ONKYO	4109, 4114
OPTIMUS	4103, 4127, 4131,
	4130
PANASONIC	4119, 4118, 4121
PHILIPS	4123
PIONEER	4105, 4107, 4150

QUASAR	4119, 4118, 4121
RCA	4103, 4105, 4127,
	4131, 4130, 4149
SANSUI	4103, 4111, 4139
SHARP	4134, 4137
SONY	4122
SOUNDE-SIGH	4138
TEAC	4112, 4113, 4111,
	4110
TECHNICS	4121, 4118, 4119
VICTOR	4132, 4133
YAMAHA	4101, 4102

Cassette Player setup codes

-	•
Brand	Code
AIWA	7123, 7124, 7125
DENON	7131
FISHER	7103
JENSEN	7114
JVC	7129, 7130, 7132,
	7133
KENWOOD	7100, 7107
MARANTZ	7102
NAKAMICHI	7105
ONKYO	7108, 7109, 7113
PANASONIC	7116, 7118
PHILIPS	7122, 7121
PIONEER	7104, 7106
RCA	7126, 7127, 7128,
	7134, 7135
SANSUI	7105, 7110, 7112
SHARP	7131
SONY	7119, 7120
TEAC	7110, 7111, 7115
TECHNICS	7116, 7118, 7117
YAMAHA	7101, 7102

Laser Disc setup codes

Brand	Code
DENON	5114
HITACHI	5100
KENWOOD	5102, 5103
MAGNAVOX	5101
MARANTZ	5114
MITSUBISHI	5114, 5118, 5119
NEC	5114
PANASONIC	5104, 5105, 5106,
	5115
PHILIPS	5111
PIONEER	5114
PROSCAN	5114
QUASAR	5104, 5105, 5106,
	5115
RCA	5114
SAMSUNG	5112
SANYO	5114, 5117
SHARP	5113, 5116
SONY	5107, 5108, 5109,
	5110
TEAC	5114
TOSHIBA	5114
YAMAHA	5101

DVD setup codes		
Brand	Code	
AIWA	3123	
APEX	3120	
DENON	3100, 3117	
FERGUSON	3101	
HITACHI	3111	
JVC	3109	
KENWOOD	3115, 3129	
KONKA	3119	
	3105	
NORDMENDE	3101	
ONKYO	3121	
ORITRON	3124	
PANASONIC	3100	
PHILIPS	3103, 3116	
PIONEER	3102	
RAITE	3113	
RCA	3101, 3106	
SABA	3101	
SAMPO	3114	
SAMSUNG	3110	
SHARP	3108	
SILVANIA	3132, 3118	
SMC	3125	
SONY	3104, 3126, 3127,	
	3128	
	3100	
THOMSON	3101	
TOSHIBA	3103	
WAVE	3122	
YAMAHA	3100, 3130	
ZENITH	3107, 3112	
VIALTA	3131	
FUNAI	3132, 3118	

Satellite Receiver setup codes

Brand	Code
DISH NETWORK	
(Echostar)	2105, 2115, 2116,
	2117
ECHOSTAR	2105
EXPRESS VU	2105, 2115
G.E.	2106
G.I. (GENERAL	
INSTRUMENT)	2108
GRADIENTE	2114
HITACHI	2103, 2111, 2112
HNS (Hughes)	2103
MAGNAVOX	2101, 2102
PANASONIC	2104
PHILIPS	2101, 2102, 2118
PRIMESTAR	2108
PROSCAN	2106, 2109, 2110,
	2113
RCA	2106, 2109, 2110,
	2113
SONY	2107
STAR CHOICE	2103, 2108
TOSHIBA	2100, 2103, 2119,
	2120, 2121
UNIDEN	2101, 2102

Learning about the remote control

The buttons used for operating the TV only are described here. For a complete list of the remote control's functions, see the "Remote Control functional key chart" on pages 16–17.

POWER turns the TV on and off

SLEEP allows access to the sleep timer (automatic TV shut-off) function (page 48)

LIGHT The first press of the LIGHT button lights the keypad and turns on the Illumination mode. With the Illumination mode on, pressing any other key lights the keypad for 5 seconds (10 seconds if you're in programming mode).

Subsequent presses of the LIGHT button toggle between turning the Illumination mode on and off.

Channel Numbers (0-9, 100) allow direct access to channels (page 27)

MODE cycles through the six device modes: TV, CABLE/SAT, VCR, DVD, AUDIO1, and AUDIO2. The mode indicator light will remain lit for 10 seconds (page 15).

PIC SIZE cycles through the five picture sizes: Normal, Theater Wide 1, Theater Wide 2, Theater Wide 3, and Full (page 32)

FAVORITE allows access to the favorite channel search function (page 29)

MENU allows access to on-screen programming menus (page 23)

ENTER sets programming menu information (page 23)

▲▼ ◀▶ select or adjust programming menus (page 23)

(FAV) ◄ ► cycles through favorite channels (page 29)

CH ▲▼ cycles through programmed channels (page 27)

VOL ▲▼ adjusts the volume level

EXIT exits the programming menus (page 23)

INPUT selects the video input source (page 46)

MUTE mutes the sound (page 49)

RECALL displays on-screen information (page 53)

CH RTN returns to the last viewed channels (page 29)

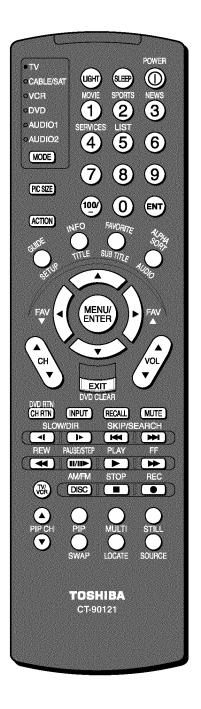
PIP CH ▲▼ selects the POP (picture-out-picture) channel (page 35)

PIP turns the POP feature on and off (page 35)

STILL freezes the POP picture (page 36)

SWAP switches the main and POP pictures (page 36)

SOURCE selects the POP picture source (page 35)

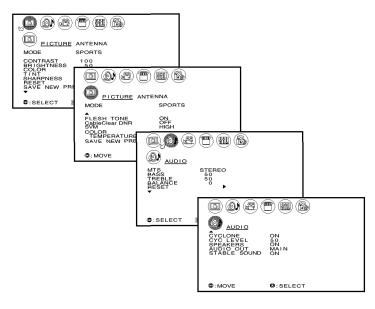


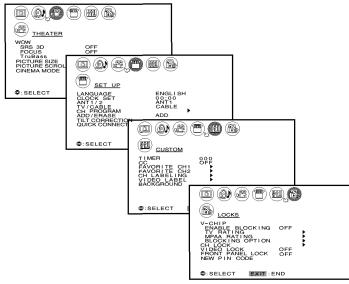
Setting up your TV

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 system using the buttons on the TV or remote control.

- 1. Press MENU to display the menu system.
- 2. Press ◀ or ▶ to select a menu.
- 3. Press \triangle or ∇ to select an item.
- 4. Press ◀ or ▶ to select or adjust a setting.





- Press ENTER to activate the function settings in the menus.
- If you do not make a selection within 15 seconds, the main menus close automatically; the other menus close automatically within 6 seconds.
- To close an on-screen menu instantly, press EXIT.

Note Regarding Quick Connect Guide

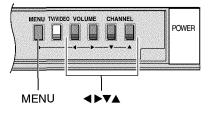
The Quick Connect Guide

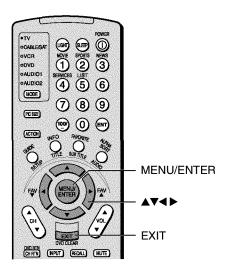
automatically appears on-screen the first time the TV is turned on. This feature provides on-screen instructions to guide you through the initial setup of your TV.

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

See page 24 for details.

TV front panel





Note:

You can change the background of the menu. See page 53 for details.

Using the Quick Connect Guide

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

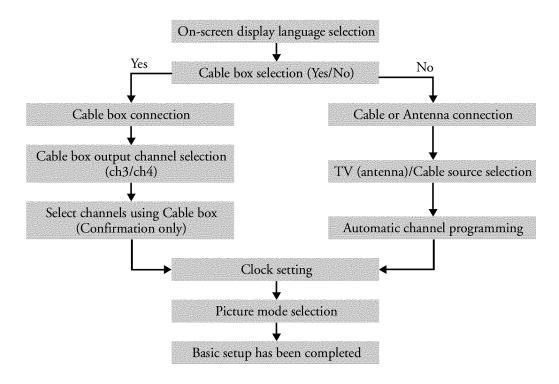
To manually start the Quick Connect Guide and change the current settings:

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

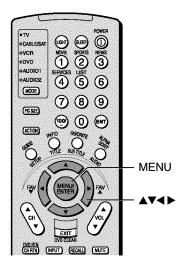


- 3. Press ◀ or ▶ to enter the Quick Connect Guide mode. Advance through the setup according to the guide displayed on-screen.
 - Press ◀ or ▶ to make a selection.
 - Press MENU to continue to the next screen.

The Quick Connect Guide will guide you through the following items.



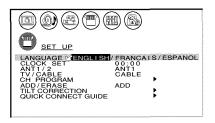
To stop the Quick Connect Guide: Press EXIT or turn off the TV.



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 ▲ or ▼ to highlight LANGUAGE.

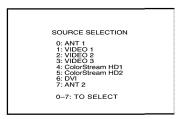


3. Press ◀ or ▶ to highlight your desired language.

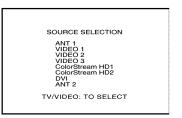
Selecting the antenna input

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

To select the antenna input using the INPUT or TV/VIDEO button: Press INPUT on the remote control or TV/VIDEO on the TV. See the following illustrations for details. The current signal source displays in purple.



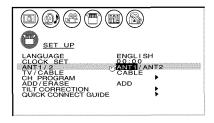
Pressing INPUT on the remote control displays the current signal source (press INPUT again or 0–7 to change)



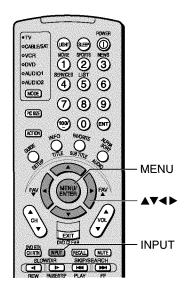
Pressing TV/VIDEO on the TV changes the current signal source

To select the antenna input using the menu system:

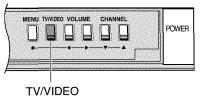
- 1. Press MENU, and then press ◀ or ▶ to highlight the SET UP menu.
- 2. Press \triangle or ∇ to highlight ANT 1/2.



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



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 13 for details.

Adding channels to the TV's memory

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

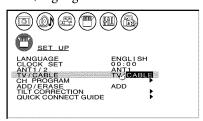
Follow the steps below and on the next page to program channels into the TV's memory.

Programming channels automatically

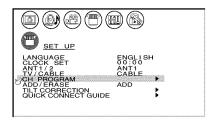
Your TV can automatically detect all active channels in your area and store them in its memory. After the channels are stored automatically, you can manually add or erase individual channels (see page 27).

To program channels automatically:

- 1. Press MENU, and then press ◀ or ▶ until the SET UP menu appears.
- 2. Press ▲ or ▼ until 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.



 Press ◀ or ▶ 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.

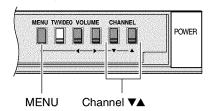
When channel programming is complete, the message "Completed" appears.

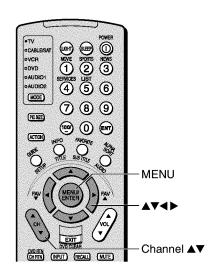
6. Press Channel ▲ or ▼ to view the programmed channels.

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.

TV front panel



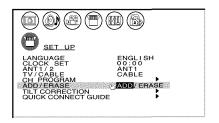


Adding and erasing channels manually

After you have automatically programmed all active channels into the TV's memory, you can manually add or erase specific channels.

To add or erase channels:

- 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.
- 3. Press ▲ or ▼ 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.

Changing channels

To change to the next programmed channel:

Press Channel ▲ or ▼ on the TV or remote control.

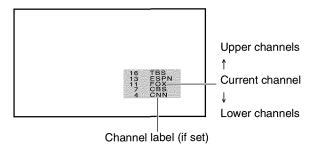
To change to a specific channel (programmed or unprogrammed): Press the Channel Number buttons (0–9 and 100).

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.

Changing channels using SpeedSurf

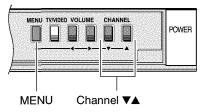
To change to a specific programmed channel using SpeedSurf:

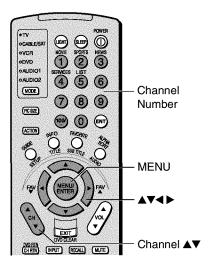
Press and hold Channel ▲ or ▼ for about one second. The TV will enter the SpeedSurf mode.



While the SpeedSurf mode is on-screen, repeatedly press or hold Channel ▲ or ▼ to scroll the channel list. Release the button to display the highlighted channel.

TV front panel



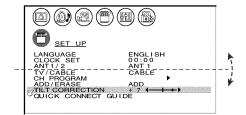


Adjusting the tilt correction feature

When you install or move the TV, the picture may suffer from color shading and/or picture tilt because of terrestrial magnetism. If either condition occurs, the following adjustment should be made for the best possible picture.

To adjust the tilt correction:

- 1. Press MENU, and then press ◀ or ▶ until the SET UP menu appears.
- 2. Press \triangle or ∇ to highlight TILT CORRECTION.
- 3. Press \triangleleft or \triangleright to adjust the picture tilt from +10 to -10.



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.

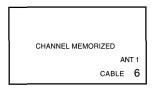
- 1. Select the first channel or video mode you want to view.
- 2. Select a second channel using the Channel Number buttons (0–9, 100).
- 3. Press CH RTN. The previous channel will be displayed. Each time you press CH RTN, the TV will switch back and forth between the last two channels you selected.

Switching between two channels using SurfLock™

The Surf Lock™ 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:

- 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-screen. The channel has been programmed into the CH RTN button.



- 3. Continue to change channels.
- 4. Press CH RTN to return to the memorized channel.

The TV will return to the memorized channel one time only. Once you press CH RTN and then change channels again, the CH RTN SurfLock™ 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 use the Favorite Channel Programming feature to preset up to 9 of your favorite channels each in the FAVORITE CH1 and FAVORITE CH2 modes. Because this feature scans through only your favorite channels, it allows you to skip other channels you do not normally watch.

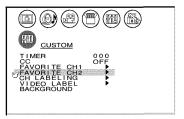
To program your favorite channels:

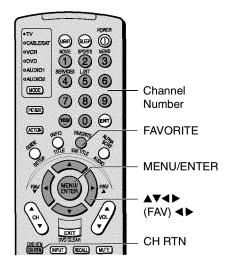
- Press MENU, and then press

 or

 until the CUSTOM menu appears.
- 2. Press ▲ or ▼ to highlight FAVORITE CH1 or FAVORITE CH2.







Note:

The (FAV) ◀► buttons operate as menu ◀► buttons when a menu is on-screen

Note:

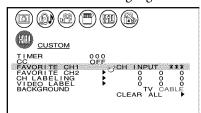
The favorite channel feature is not available in ANT2 mode.

To quickly scan through your favorite channels in a 9-picture multi-window:

Press FAVORITE (see "Using the favorite channel search function" on page 36).

(Continued from previous page)

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



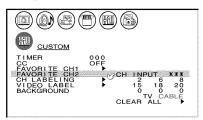
- 4. Press the Channel Number buttons to enter one of your favorite channels.
- 5. Press ENTER.
- 6. Repeat steps 4 and 5 for other channels.

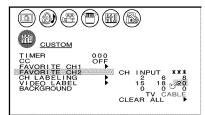
To select your favorite channels:

Press (FAV) \triangle or ∇ .

To clear a favorite channel:

- 1. Press MENU, and then press ◀ or ▶ until the CUSTOM menu appears.
- 2. Press \triangle or ∇ to highlight FAVORITE CH2, for example.
- 3. Press ◀ or ▶ to display the FAVORITE CH2 menu.
- 4. Press ▲▼◀▶ to highlight the channel you want to clear, and then press ENTER.

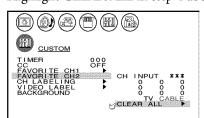




5. Repeat step 4 for other channels.

To clear all favorite channels at once:

Highlight CLEAR ALL in step 4 above, and then press ▶ or ◀.

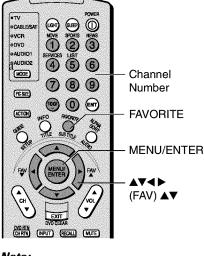


Labeling channels

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

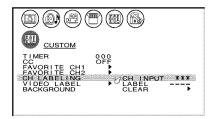
To create channel labels:

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

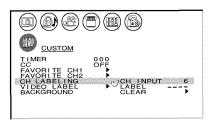


Note:

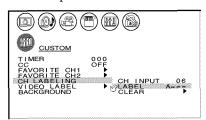
The (FAV) ▲▼ buttons operate as MENU **◄** ► buttons when a menu is on-screen.



4. Press the Channel Number buttons to select a channel you want to label.



- 5. Press ▼ to highlight LABEL.
- 6. Press ◀ or ▶ repeatedly to select a character for the first space, and then press ENTER.

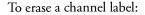


7. Repeat step 6 to enter the rest of the characters.

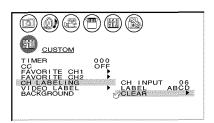
For a blank space in the label name, choose an empty space from the list of characters; otherwise, a dash "-" will appear in the space.

You must assign a character to all four spaces or the label will not be assigned.

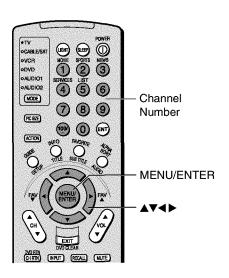
8. Repeat steps 4–7 for other channels. You can assign labels to a maximum of 32 channels.

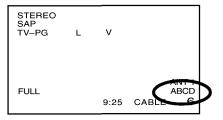


- 1. Press MENU, and then press ◀ or ▶ until the CUSTOM menu appears.
- 2. Press ▲ or ▼ to highlight CH LABELING.
- 3. Press ◀ or ▶ to display the CH LABELING menu.
- 4. Press ▼ to highlight CH INPUT, and then use the Channel Number buttons to select the channel you want to clear.
- 5. Press ▼ to highlight CLEAR.



- 6. Press ◀ or ▶ to erase the channel label.
- 7. Repeat steps 4–6 to erase other channel labels.





Channel label example

Viewing the wide-screen picture formats

You can view conventional (4:3 aspect ratio) and wide-screen (16:9) aspect ratio) programs in a variety of picture sizes—Natural, Theater Wide 1, Theater Wide 2, Theater Wide 3, and Full.

Selecting the picture size

- 1. Press PIC SIZE on the remote control.
- 2. Press the corresponding number button to select the desired picture size (Natural, Theater Wide 1, Theater Wide 2, Theater Wide 3, or Full), as described below and on the next page.



Note: The PIC SIZE function is not available for 720p signals.

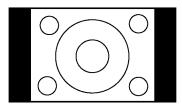


Natural picture size

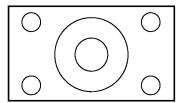
(not recommended for conventional 4:3 programs; recommended for wide-screen 16:9 programs)

The Natural picture size displays a conventional 4:3 program (for example, a 480i or 480p signal) in its original 4:3 size, with black bars on the left and right. The Natural picture size is not recommended for conventional 4:3 programs because of the potential adverse effects the black bars can have on your TV's picture tube (see the "Notice" at right).

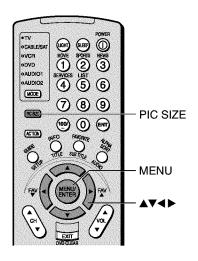
The Natural picture size displays a wide-screen 16:9 format picture (for example, a 1080i signal)in its original 16:9 size. The Natural picture size is the recommended mode for wide-screen 16:9 programs.



Conventional 4:3 picture (e.g., 480i, 480p) in Natural picture size (not recommended)



Wide-screen 16:9 picture (e.g., 1080i) in Natural picture size (recommended)

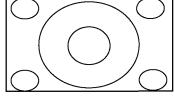


NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

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 32 on page 4.

Theater Wide 1 picture size

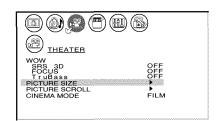
- The picture is non-uniformly enlarged—the center of the picture remains close to its true proportion, but the left and right edges are stretched wider to fill the screen.
- A small part of the picture at the top and bottom is hidden; however, this mode cannot be scrolled.



Theater Wide 1

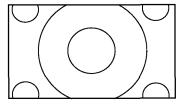
Note:

You can change the picture size by pressing PIC SIZE on the remote control or selecting PICTURE SIZE in the THEATER menu.



Theater Wide 2 picture size

- The entire picture is uniformly enlarged—it is stretched the same amount both wider and taller (retains its true 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 34.



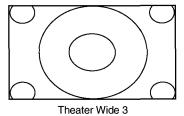
Theater Wide 2

Note:

If you select Theater Wide 2 or Theater Wide 3 for conventional size 4:3 programs, the top and bottom edges of the picture may be hidden. To see the hidden edges, either scroll the picture (see page 34) or select Full picture size, which displays all of the picture.

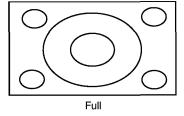
Theater Wide 3 picture size

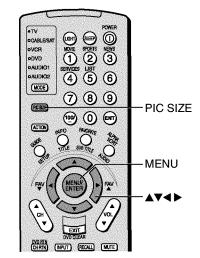
- The picture is non-uniformly enlarged—it is stretched wider to fill the width of the screen, but only slightly stretched taller.
- A small part of the picture at the top and bottom is hidden. To view the hidden areas, see "Scrolling the Theater Wide picture" on page 34.



Full picture size

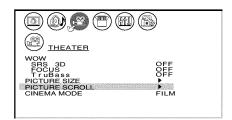
- The picture is non-uniformly enlarged—it is stretched wider to fill the width of the screen, but not stretched taller.
- None of the picture is hidden.



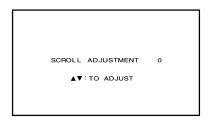


Scrolling the Theater Wide picture (Theater Wide 2 and 3 picture sizes only)

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



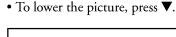
4. Press ◀ or ▶ to display the Scroll Adjustment mode.



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

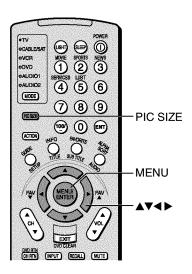


• To raise the picture, press ▲.









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:

Wide 1: Not adjustable Wide 2: +45 to -20 Wide 3: +45 to -20

· 480p signal source:

Wide 1: Not adjustable Wide 2: +30 to -20 Wide 3: +30 to -20

• 1080i signal source:

Wide 1: Not adjustable Wide 2: +30 to -20 Wide 3: +30 to -20

720p signal source:

Wide 1 : Not available Wide 2 : Not available Wide 3 : Not available

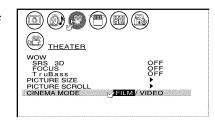
Selecting the cinema mode

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

To set the CINEMA MODE to FILM:

- 1. Press MENU, and then press ◀ or ▶ until the THEATER menu appears.
- 2. Press ▲ or ▼ to highlight CINEMA MODE.
- 3. Press ◀ or ▶ to select FILM.

To turn off the CINEMA MODE: Select VIDEO in step 3 above.

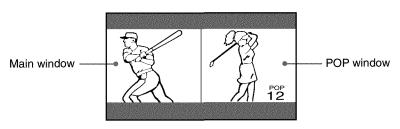


Using the POP double-window feature

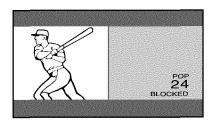
The POP (picture-out-picture) feature splits the screen into a double window that allows you to watch two programs at the same time. The POP program can come from a TV broadcast or an external source, such as a VCR.

To display a TV broadcast in the POP window:

1. Press PIP to display the POP window.



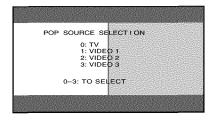
2. Press PIP CH ▲▼ to change the channel of the POP window. If the V-CHIP feature is active and you try to watch a TV program that exceeds your set rating limits, the program will be blocked (see "Using the V-CHIP menu" on page 38).



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

- 1. Connect the external source equipment (see "Connecting your TV" on page 7).
- 2. Select the TV program you want to watch in the main window.
- 3. Press PIP to display the POP window.
- 4. Press SOURCE to display the POP SOURCE SELECTION window. Select the desired input source by pressing the corresponding number button (0–3). The current source displays in purple.

You can view a video tape as the POP picture, or select a channel for the POP window using the VCR's channel keys.



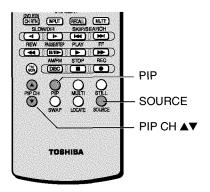
Note: You cannot view a ColorStream, DVI, or ANT 2 source in the POP window

To close the POP window:

Press PIP again.

Note:

- The PIP buttons on the remote control operate the TV's POP features.
- You cannot access POP features when viewing ColorStream HD1/HD2 or DVI input.
- You cannot display the ANT-2 signal source in the POP window.
- You can output the sound of either the main or POP program from the Audio OUT jacks (see "Selecting the Audio OUT sound" on page 52).

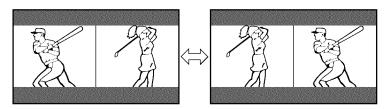


NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

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 32 on page 4.

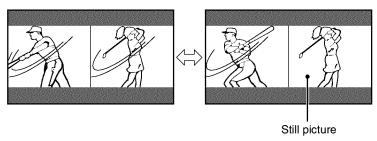
Switching the main and POP pictures

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



Freezing the POP picture

Press STILL while you are using the POP feature to freeze the POP picture. To return to the moving picture, press STILL again.

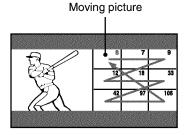


Using the favorite channel search function

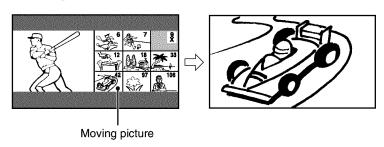
You can use the favorite channel search function to quickly scan your favorite channels (see "Programming your favorite channels" on page 29).

1. Press FAVORITE.

The TV automatically enters POP mode, and begins a ninepicture scan of your favorite channels in the POP window. The first of the nine windows will display as a moving picture.

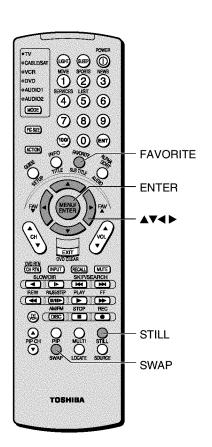


- 2. Press ▲▼◀▶ to select one of the nine pictures (becomes a moving picture).
- 3. Press ENTER to display the channel you selected in step 2 as a normal picture.



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

FAVORITE CH1 — FAVORITE CH2 — Off



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Using the LOCKS menu

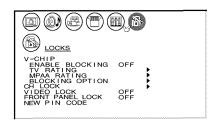
The LOCKS menu includes the V-CHIP, CH LOCK, VIDEO LOCK, and NEW PIN CODE functions. You can use these functions after entering the correct PIN code.

Entering the PIN code

Press MENU, and then press

or

until the LOCKS menu appears.



- 2. Press \triangle or ∇ to display the PIN code entering mode.
- BLOCKING RESET status:

Press the Number buttons (0–9) to enter a new 4-digit PIN code, and then press ENTER.



 BLOCKING ACTIVE status (when the PIN code is already stored):

Press the Number buttons (0–9) to enter your 4-digit PIN code, and then press ENTER.

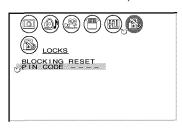


If the wrong PIN code is entered, the message "Incorrect" appears. Enter the code again, and then press ENTER.

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

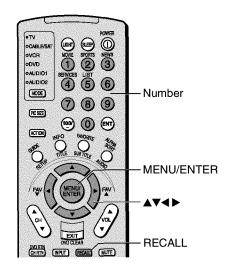
If you cannot remember your PIN code

While in the PIN code entering mode, press RECALL four times within five seconds. The PIN code will be released (BLOCKING RESET status restored).



Note:

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



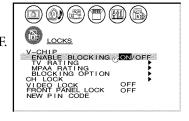
Using the V-CHIP menu

Some TV programs and movies include signals that classify the content of the program (dialog, language, sex, violence). The V-CHIP control 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.
- Press ◀ or ▶ to select ON or OFF.
 ON : To enable your settings (Lock).

OFF: To release your settings (Unlock).



Note: The CH LOCK function is not affected by the ENABLE BLOCKING setting.

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 ∇ or \triangle to select item.
- Press ► to lock (displays "X").
 Press ◄ to unlock (displays "✓").
- 5. Repeat steps 3 and 4 to set the next item.

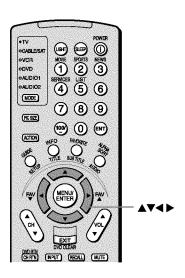


The TV age-based ratings and content themes you can lock are listed in the following table.

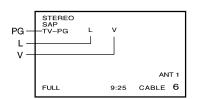
Ratings	Description and Content themes
MA	Mature Audience Only (This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.) L) Crude or indecent language S) Explicit sexual activity V) Graphic violence
14	Parents Strongly Cautioned (This program 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 Guidance 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 rated Y7FV contain fantasy violence that may be more intense or more combative than programs rated Y7.)
Y	All Children (This program is designed to be appropriate for all children)

Note:

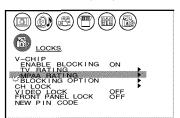
The V-Chip function is available for the U.S. V-Chip system only. The Canadian V-Chip system is not supported.

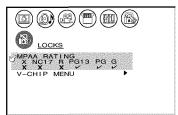


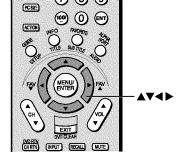
Press RECALL to display the rating of the TV program you are currently watching.



- 4. Press ◀ or ▶ to display the MPAA RATING menu.
- 5. Press ▶ to lock ("X") or ◀ 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)

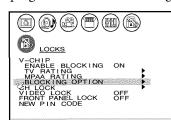
G : General Audience (appropriate for all ages)

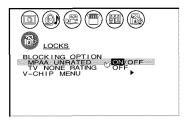
BLOCKING OPTION

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

MPAA UNRATED:

Press ◀ or ▶ 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 ◀ or ▶ to return to the 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 favorite channel search function (see page 36). You can either unlock the program temporarily (see steps 2–4) or select an unlocked program to watch.

After 4 seconds THIS PROGRAM HAS BEEN BLOCKED! THIS PROGRAM HAS BEEN BLOCKED TV-PG I V TV-PG L V EXCEED SET LIMITS EXCEEDS SET LIMITS PUSH MUTE TO ENTER PIN 9 CARLE

NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

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> Channel Number

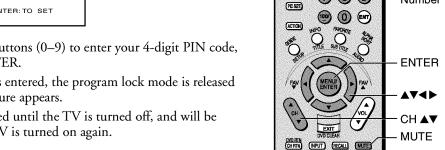
2. To temporarily unlock the program, press MUTE.



3. Press the Number buttons (0–9) to enter your 4-digit PIN code, and then 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.



OCABLE/SA

OAUDIO1

(MODE)

OVCR oDVD

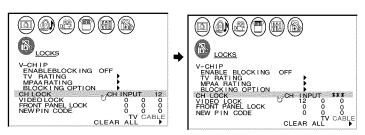
Locking channels

You can use the CH LOCK feature to lock specific channels. You will not be able to tune locked channels using the Channel ▲ ▼ buttons or Channel Number buttons unless you clear the setting.

You can lock a maximum of nine channels.

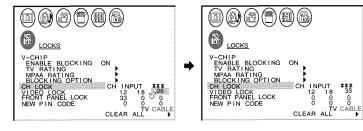
To lock channels:

- 1. From the LOCKS menu, select CH LOCK.
- 2. 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.



V-CHIP ENABLE BLOCKING TV RATING MPAA RATING BLOCKING OPTION CH LOCK VIDEO LOCK FRONT PANEL LOCK NEW PIN CODE

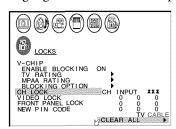
5. Repeat steps 3 and 4 to lock other channels.



4. Repeat step 3 for other channels.

To unlock all locked channels at once:

Highlight CLEAR ALL in step 3 above, and then press ▶ or ◀.



Locking video inputs

You can use the VIDEO LOCK feature to 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.
- 2. Press ◀ or ▶ to highlight the desired level of video locking (VIDEO, VIDEO+, or OFF), as follows:
 - VIDEO: Locks Video 1, Video 2, Video 3,

ColorStream HD1/HD2, and DVI/HDCP.

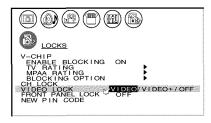
VIDEO+: Locks Video 1, Video 2, Video 3,

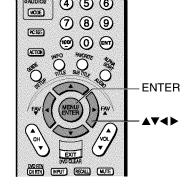
ColorStream HD1/HD2, DVI/HDCP, and channels 3 and 4. Select VIDEO+ if you use the

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 front panel lock feature

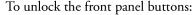
Lock the front panel buttons to prevent your settings from being changed accidentally (by children, for example). When the front panel lock is ON, all control buttons on the TV front panel (except POWER) do not operate.

To lock the front panel buttons:

- 1. From the LOCKS menu, select FRONT PANEL LOCK.
- 2. Press ◀ or ▶ to highlight ON.



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

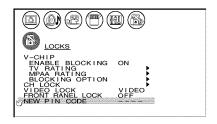


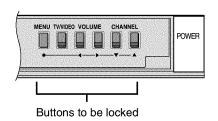
Highlight OFF in step 2 above, or press and hold the VOLUME DOWN (◀) button on the TV front panel for about 10 seconds until the message "Front Panel Lock: OFF" appears on-screen.

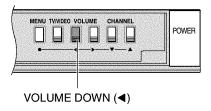
Changing the PIN code

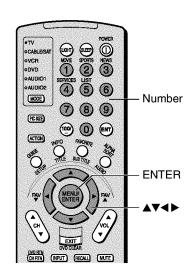
- 1. From the LOCKS menu, select NEW PIN CODE.
- 2. Press the Number buttons (0–9) to enter a 4-digit code, and then press ENTER. The numbers you enter will replace the dashes in the display.

The new PIN code is now active.







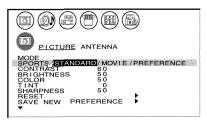


Mode	Picture Quality
Sports	Bright and dynamic picture (factory setting)
Standard	Standard picture setting (factory setting)
Movie	Movie-like picture setting (factory setting)
Preference	Your personal preferences*

^{*(}see "Saving your new preferences" on page 44.)

To select the picture mode:

- 1. Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
- 2. Press ▼ or ▲ to select MODE.
- 3. Press \triangleleft or \triangleright to highlight the mode you prefer.



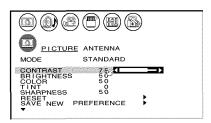
Adjusting the picture quality

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

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

To adjust the picture quality:

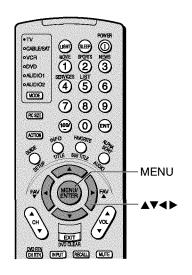
- 1. Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
- 2. Press ▼ or ▲ to highlight the item you want to adjust (contrast, brightness, color, tint, or sharpness).
- 3. Press ◀ or ▶ to adjust the level.



The picture quality adjustments you made can be saved in the TV's memory with the SAVE NEW PREFERENCE feature (see page 44). You can keep these settings or choose factory set options, as described under "Selecting the picture mode" above.

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 44) before closing the Picture menu or the TV will return to the previous picture mode.



Saving your new preferences

You can save your PICTURE quality adjustments (contrast, brightness, color, tint, and sharpness) in the Picture menu PREFERENCE MODE.

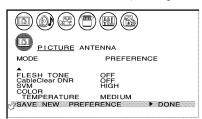
To save your new preferences:

- Press MENU, and then press

 or

 until the PICTURE menu appears.
- 2. Press \triangle or ∇ to highlight SAVE NEW PREFERENCE.
- 3. Press ◀ or ▶. The menu displays "DONE."

The mode automatically changes to PREFERENCE.



You can choose your saved preferences by selecting PREFERENCE mode in the Picture menu (see "Selecting the picture mode" on page 43).

Using the flesh tone feature

This feature automatically adjusts the tint to display more natural flesh tones.

To turn on the flesh tone feature:

- 2. Press ▲ or ▼ to highlight FLESH TONE.
- 3. Press ◀ or ▶ to highlight ON.

To turn off the flesh tone feature: Highlight OFF in step 3 above.

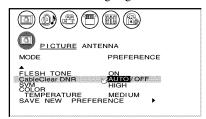
PICTURE ANTENNA MODE PREFERENCE ALESH TONE CableClear DNR CABLECTOR CHECK TONE CABLECTOR CHECK TONE CHECK TO

Using CableClear™ DNR (digital noise reduction)

This feature allows you to reduce visible interference in your TV picture (for example, when receiving a broadcast with a weak signal 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 ▲ or ▼ to highlight CableClear DNR (or DNR if you are in a mode other than ANT1 or ANT2).
- 3. Press ◀ or ▶ to highlight AUTO.

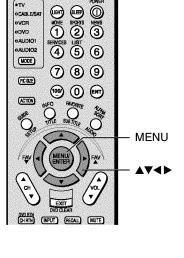


Note:

The "CableClear DNR" menu listing will change to "DNR" in video mode.

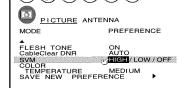
To turn off CableClear™ DNR:

Highlight OFF in step 3 above.



press **◄** or **▶** until the PICTURE menu appears.

- 2. Press \triangle or ∇ to highlight "SVM."
- 3. Press ◀ or ▶ to highlight the mode you prefer (HIGH, LOW, or OFF).





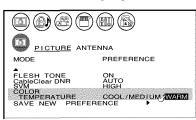
Selecting the color temperature

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

Mode	Picture Quality
cool	blueish
medium	neutral
warm	reddish

To select the color temperature:

- 1. Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
- 2. Press \triangle or ∇ to highlight COLOR TEMPERATURE.
- 3. Press \triangleleft or \triangleright to highlight the mode you prefer.



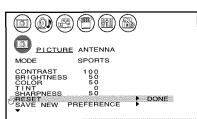
Resetting your picture quality adjustments

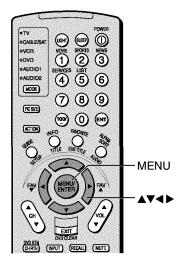
The RESET function returns your picture quality adjustments to the following factory settings:

Contrast max (100)	Color temperatureCool
Brightness center (50)	CableClear DNR Auto
Color center (50)	ModeSports
Tint center (0)	
Sharpness center (50)	

To reset your picture quality adjustments:

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





Selecting the video input source

Press INPUT on the remote control or TV/VIDEO on the TV to view a signal coming from another device connected to your TV, such as a VCR or video disc player. 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 your devices (see "Connecting your TV" on page 7.)



Pressing INPUT on the remote control displays the current signal source (press INPUT again or 0-7 to change)



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

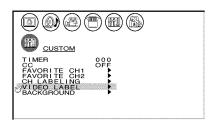
DTV : Digital TV set-top box

SAT : Satellite box **CBL** : Cable box

HD : DVI/HDCP device (see page 13)

To label the video input sources:

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



- 3. Press ◀ or ▶ to display the VIDEO LABEL menu.
- 4. Press ▲ or ▼ to highlight the video source you want to label.
- 5. Press ◀ or ▶ 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 ▲ or ▼ to highlight CUSTOM MENU, and then press \triangleleft or \triangleright .
- 7. To exit the menu, press EXIT.

Note:

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

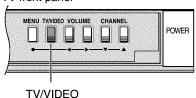
Please note the following regarding the DVI source selection:

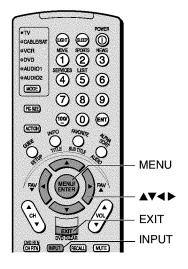
This TV is not intended for connection to and should not be used with a PC (personal computer). See "Connecting a device to the DVI/HDCP input" on page 13 for details.

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 13.

TV front panel

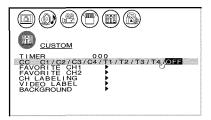




• Text—An on-screen display of information not related to the current program, such as weather or stock data (when provided by individual stations).

To view captions or text:

- 1. Tune the TV to the desired program.
- 2. Press MENU, and then press ◀ or ▶ until the CUSTOM menu appears.
- 3. Press ∇ or \triangle to highlight CC.



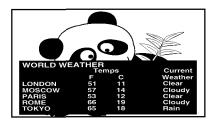
- 4. Press ◀ or ▶ to highlight the desired closed caption mode, as follows:
- To view captions, highlight C1, C2, C3, or C4 (C1 displays captions in the primary language of your area).

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

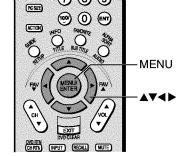


• To view text, highlight T1, T2, T3, or T4.

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



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



Note:

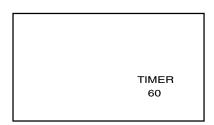
A closed caption signal may not display in the following situations:

- when a videotape has been dubbed
- · when the signal reception is weak
- · when the signal reception is nonstandard

Setting the sleep timer

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

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



Every time you press SLEEP, the time will increase by 10 minutes, to a maximum of 180 minutes.

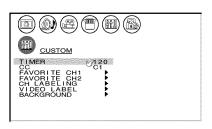
$$10 \to 20 - - - \to 170 \to 180 \to 0 \to 10 \text{ MIN}.$$

To cancel the sleep timer:

Press SLEEP until it is set to 0.

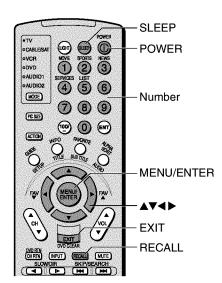
You also can set the timer using the on-screen menu:

- 1. Press MENU, and then press ◀ or ▶ until the CUSTOM menu appears.
- 2. Press \blacktriangle or \blacktriangledown to highlight TIMER.
- 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:

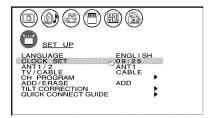
To display the amount of time left until the TV turns off automatically, press SLEEP once.



Setting the clock

To set the clock:

- 1. Press MENU, and then press ◀ or ▶ until the SET UP menu appears.
- 2. Press ▲ or ▼ 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 12-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 (for example, if the power cord is unplugged or a power failure occurs), the clock must be reset.

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. Each time you press MUTE, the mute mode will change in the following order.

$$\rightarrow$$
 Normal \rightarrow 1/2 MUTE \rightarrow MUTE \rightarrow

When you select "MUTE" mode, the closed caption feature is automatically activated. To deactivate this feature, press MUTE again. This feature works only when the closed caption mode is set to OFF. See "Using the closed caption feature" on page 47 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 ▲ or ▼ to highlight MTS.
- 3. Press ◀ or ▶ to highlight STEREO.

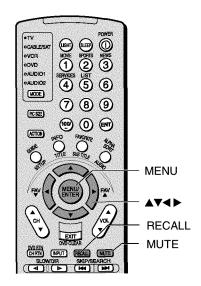


You can leave your TV in STEREO mode because it will automatically output the type of sound being broadcast (stereo or monaural). The word "STEREO" or "SAP" displays in yellow in the menu when the TV receives the signal.

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 \triangle or ∇ 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 picture (see note at right).



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, you will see the picture but not hear any sound. If this happens, put the TV in STEREO mode so you can hear the station's normal audio.

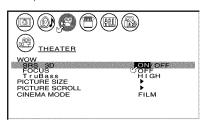
Using the WOW™ surround sound feature

The WOW™ surround sound feature expands the audio listening field wider and deeper to create exceptional sound quality from the TV's speakers. WOW consists of three features—SRS 3D, FOCUS and TruBass—that use stereo signals from a TV broadcast or video input.

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

To adjust the WOW feature:

- 1. Select STEREO mode (see "Selecting stereo/SAP broadcasts" on page 49).
- 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 (SRS 3D, FOCUS, or TruBass), and then press ◀ or ► to adjust the item.

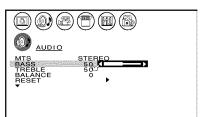


Adjusting the sound quality

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

To adjust the sound quality:

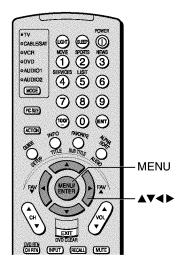
- 1. Press MENU, and then press ◀ or ▶ until the AUDIO menu appears.
- 2. Press ▲ or ▼ to highlight the item you want to adjust (BASS, TREBLE, or BALANCE).



- 3. Press ◀ or ▶ to adjust the level.
- ◀ makes the sound quality weaker or decreases the balance in the right channel, depending on the item selected.
- 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.



Resetting your audio adjustments

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

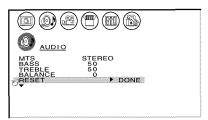
Bass center (50)

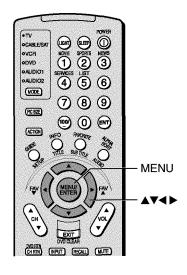
Treble center (50)

Balance center (0)

To reset your audio adjustments:

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



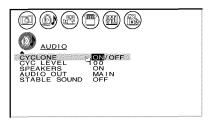


Using the CYCLONE® sub-woofer system

Toshiba's CYCLONE® ABX (Acoustic Bass eXpansion) system provides dynamic acoustic reproduction in a self-enclosed bass-reflex sub-woofer system.

To turn on the CYCLONE® sub-woofer system and adjust the CYCLONE level:

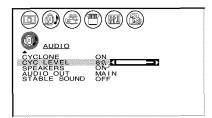
- 1. Press MENU, and then press ◀ or ▶ until the AUDIO menu appears.
- 2. Press \triangle or ∇ to highlight CYCLONE.
- 3. Press ◀ or ▶ to highlight ON.



- 4. Press ▲ or ▼ to highlight CYC LEVEL.
- 5. Press ◀ or ▶ to adjust the CYCLONE level (sub-woofer volume).

Press to increase the sub-woofer volume.

Press ◀ to decrease the sub-woofer volume.



To turn off the CYCLONE® sub-woofer system:

Highlight OFF in step 3 above.

Note:

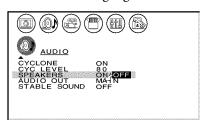
If the CYCLONE level is adjusted when the CYCLONE system is OFF, the CYCLONE system is automatically set to ON.

Turning off the built-in speakers

Use this feature to turn off the TV speakers when you connect an audio system (see "Connecting an audio system" on page 14).

To turn off the built-in speakers:

- 1. Press MENU, and then press ◀ or ▶ until AUDIO menu appears.
- 2. Press ▲ or ▼ to highlight SPEAKERS.
- 3. Press ◀ or ▶ to highlight OFF.



To turn on the built-in speakers:

Highlight ON in step 3 above.

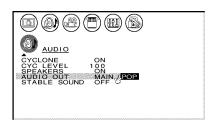
Selecting the Audio OUT sound

This feature allows you to select the sound source (MAIN or POP) output from the Audio OUT jacks (see "Connecting two VCRs" on page 12).

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:

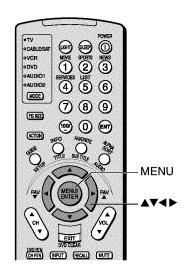
- 1. Press MENU, and then press ◀ or ▶ until the AUDIO menu appears.
- 2. Press ▲ or ▼ to highlight AUDIO OUT.
- 3. Press ◀ or ▶ to select MAIN or POP.



- MAIN: Outputs the sound of the main program from the Audio OUT jacks.
- POP : Outputs the sound of the POP program from the Audio OUT jacks.

Note:

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

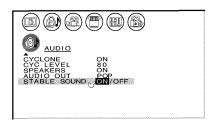


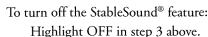
Using the StableSound® feature

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 extreme 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 ▲ or ▼ to highlight STABLE SOUND.
- 3. Press ◀ or ▶ to select ON.



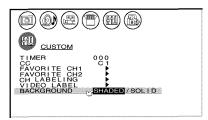




You can change the background of the menu display by selecting from two preset types: shaded and solid (gray).

To select the background:

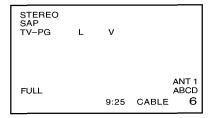
- 1. Press MENU, and then press ◀ or ▶ until the CUSTOM menu appears.
- 2. Press ▲ or ▼ to highlight BACKGROUND.
- 3. Press ◀ or ▶ to select either SHADED or SOLID.

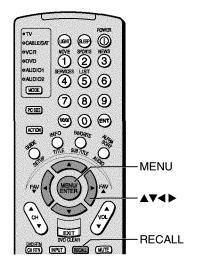


Displaying on-screen information

Press RECALL to display the following information on-screen:

- Antenna mode (when in TV mode)
- Channel number or video mode selected
- Time (if set)
- Channel label (if set)
- Stereo or SAP audio status
- V-CHIP rating status
- Picture size





Viewing the demonstration mode

The demonstration mode demonstrates several of your TV's features.

To start the demo:

Press and hold MENU on the TV for 4 seconds.

To stop the demo:

Press RECALL, EXIT, or POWER.

Understanding the auto power off feature

The TV automatically turns 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 the TV is on, the Last Mode Memory feature turns on the TV 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.

, ,

Television System

NTSC standard

Channel Coverage

VHF: 2 through 13 UHF: 14 through 69

Cable TV: Mid band (A-8 through A-1, A through I)

Super band (I through W)

Hyper band (AA through ZZ, AAA, BBB)
Ultra band (65 through 94, 100 through 125)

Power Source

120 V AC, 60 Hz

Power Consumption

156 W (average)

Audio Power

10 W + 10 W + 13 W sub-woofer

Speaker Type

Two 6x12 cm

One 10 cm round sub-woofer

Video/Audio Terminals

S-VIDEO INPUT

Y: 1 V(p-p), 75 ohm, negative sync. C: 0.286 V(p-p) (burst signal), 75 ohm

VIDEO/AUDIO INPUT

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

AUDIO: 150 mV(rms) (30% modulation equivalent,

47 kohm)

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 kohm

VIDEO/AUDIO OUTPUT

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

AUDIO: 150 mV(rms) (30% modulation equivalent,

4.7 kohm)

VARIABLE AUDIO OUTPUT

0-300 mV(rms) (30% modulation equivalent, 4.7 kohm)

AUDIO CENTER CHANNEL INPUT

300 mV(rms) (30% modulation equivalent, 10 kohm)

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

Width 33-3/4 inches (857.3 mm) Height 24-1/4 inches (616 mm) Depth 23-1/2 inches (596.9 mm)

Weight

176 lbs (79.8 kg)

Supplied Accessories

Remote Control with 2 size "AA" alkaline batteries

Optional TV Stand ST34W62

Dimensions

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

Troubleshooting

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.
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, Inc. ("TACP") and Toshiba Hawaii, Inc. ("THI") make 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/THI warrant 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/THI WILL, AT TACP/THI'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOR. TACP/THI 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/THI Authorized Service Station for repair and returned to your home at no cost to you.

Limited Two (2) Year Warranty on Picture Tube*

TACP/THI further warrant 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/THI WILL, AT TACP/THI'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/THI 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/THI Service Station.
- (3) The warranties from TACP and THI 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/THI; 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 TACP/THI Authorized Service Station:
 For televisions purchased in the United States, except Hawaii, visit TACP's web site at www.toshiba.com/tacp, or call toll free 1-800-631-3811.
 - For televisions purchased in Hawaii, contact Toshiba Hawaii, Inc., 327 Kamakee Street, Honolulu, HI 96814, (808) 591-9281.
- (2) Present your bill of sale or other proof of purchase to the Authorized Service Station. Authorized TACP/THI 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.

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No person, agent, distributor, dealer, or company is authorized to change, modify, or extend the terms of these warranties in any manner whatsoever. The time within which action must be commenced to enforce any obligation of TACP or THI 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, Inc.

REV. MARO2

Limited Canada Warranty

for 27" FST PURE® and All Larger Television Models

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

THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS 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

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