TOSHIBA

OWNER'S MANUAL
Color Television

16:9 WIDE   **COLOR STREAM®**   **SRS (•) WOW**

TOSHIBA AMERICA CONSUMER PRODUCTS, INC.
UL REGISTERED FIRM
ISO 14001   FILE No. A9645

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

Model number: 30HF83

Serial number:

30HF83

23566176

(E) 30HF83

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 25 and 26 on page 4.

NOTICE OF POSSIBLE TV STAND INSTABILITY

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

NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

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

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Child Safety

It Makes A Difference Where Your TV Stands

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

The Issue

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

Toshiba Cares!

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

Tune Into Safety

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

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®

(E) 30HF83

Important Safety Instructions

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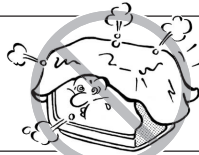3) **Heed all warnings.**
4) **Follow all instructions.**

5) **Do not use this apparatus near water.**
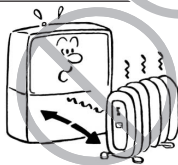
6) **Clean only with a dry cloth.**

7) **Do not block any ventilation openings.** Install in accordance with the manufacturer's instructions.

8) **Do not install near any heat sources** such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9) **Do not defeat the safety purpose of the polarized or grounding type plug.** A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

Wide plug
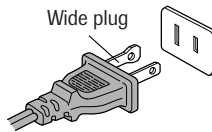
10) **Protect the power cord** from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where it exits the apparatus.
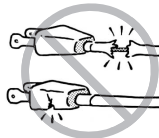
11) **Only use attachments/accessories specified by the manufacturer.**

12) **Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.** When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13) **Unplug this apparatus during lightning storms or when unused for long periods of time.**
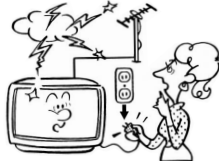
14) **Refer all servicing to qualified service personnel.** Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

QUALIFIED SERVICE TECHNICIAN

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

Installation, Care, and Service

Installation

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

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

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

18) Never place or store the TV in direct sunlight; hot, humid areas; areas subject to excessive dust or vibration; or locations with temperatures at or below 41°F (5°C).
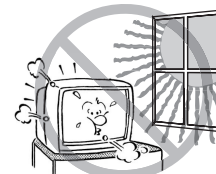
19) Always place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit.

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

21) Never block or cover the slots or openings in the TV cabinet back, bottom, and sides. Never place the TV:
   • on a bed, sofa, rug, or similar surface;
   • too close to drapes, curtains, or walls; or
   • in a confined space such as a bookcase, built-in cabinet, or any other place with poor ventilation.
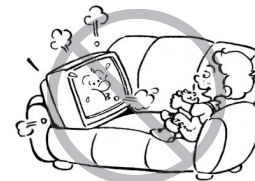
   The slots and openings are provided to protect the TV from overheating and to help maintain reliable operation of the TV.
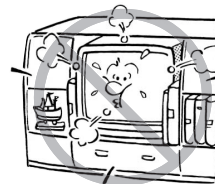
22) Never allow anything to rest on or roll over the power cord, and never place the TV where the power cord is subject to wear or abuse.

23) Never overload wall outlets and extension cords.

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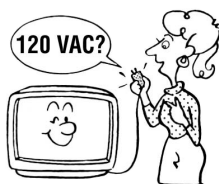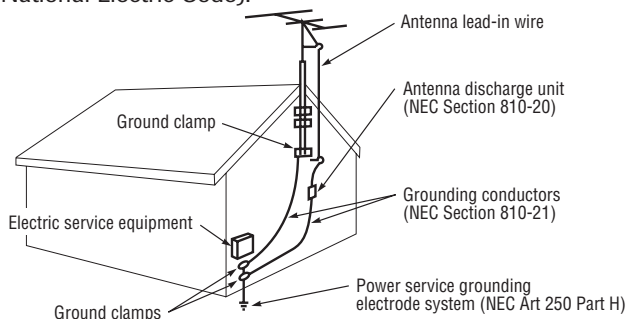
120 VAC?

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

Antenna lead-in wire

Antenna discharge unit (NEC Section 810-20)

Ground clamp

Grounding conductors (NEC Section 810-21)

Electric service equipment

Power service grounding electrode system (NEC Art 250 Part H)

Ground clamps

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

Care

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

27) Always sit approximately 10–25 feet away from the TV and as directly in front of it as possible. The picture can appear dull if you sit too far to the left or right of the TV, or if sunlight or room lights reflect on the screen. Turn the TV off to check for reflections on the screen, and then remove the source of reflections while viewing the TV.

28) Always unplug the TV before cleaning. Never use liquid or aerosol cleaners.
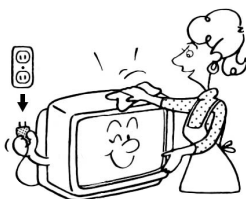
29) **WARNING: RISK OF ELECTRIC SHOCK!** Never spill liquids or push objects of any kind into the TV cabinet slots.

30) [*This item applies to projection TVs only.*] If the air temperature rises suddenly (for example, when the TV is first delivered), condensation may form on the lenses. This can make the picture appear distorted or the color appear faded. If this happens, turn off the TV for 6 to 7 hours to allow the condensation to evaporate.

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

32) During normal use, the TV may make occasional snapping or popping sounds. This is normal, especially when the unit is being turned on or off. If these sounds become frequent or continuous, unplug the power cord and contact a Toshiba Authorized Service Center.
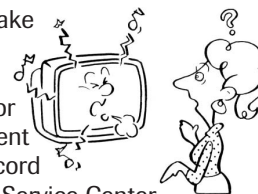
33) **Possible Adverse Effects on TV Picture Tube:** If a fixed (non-moving) pattern remains on the TV screen for long periods of time, the image can become permanently engrained in the picture tube and cause subtle but permanent ghost images. **This type of damage is NOT COVERED BY YOUR WARRANTY**. Never leave your TV on for long periods of time while it is displaying the following formats or images:

- **Fixed Images**, such as PIP/POP windows, stock tickers, video game patterns, TV station logos, and websites.

- **Special Formats** that do not use the entire screen. For example, viewing letterbox style (16:9) media on a normal (4:3) display (gray bars at top and bottom of screen); or viewing normal style (4:3) media on a widescreen (16:9) display (gray bars on left and right sides of screen).

Service

34) **WARNING: RISK OF ELECTRIC SHOCK!** Never attempt to service the TV yourself. Opening and removing the covers may expose you to dangerous voltage or other hazards. Refer all servicing to a Toshiba Authorized Service Center.

QUALIFIED SERVICE TECHNICIAN
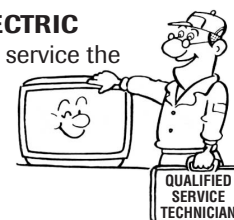
35) If you have the TV serviced:

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

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

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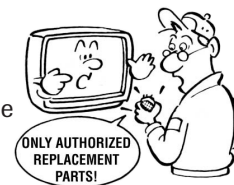
36) When the TV reaches the end of its useful life, ask a qualified service technician to properly dispose of the TV. Improper disposal may result in a picture tube implosion and possible personal injury.

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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.

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

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

Exploring your new TV

You can operate your TV using the buttons on the front panel or the remote control. The back panel and front panel (behind the door) provide all the terminal connections you will need to connect other equipment to your TV. See "Connecting your TV" on 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 initial setup of your TV.*

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

See page 23 for details.

Remote sensor
Power indicator
MENU ‹ › ⌄ ⌃
Front
Remote control

Video-3
Video/audio inputs
(behind the door)

MENU   TV/VIDEO

Channel ⌄⌃

Volume ‹ ›

POWER

ANT OUT

ANT-1 IN   ANT-2 IN   DVI/HDCP IN

Back

VIDEO 1/2

ColorStream HD-1

ColorStream HD-2

Video/Audio OUT

Audio Center Channel IN

Variable Audio OUT

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Using the Remote Control
Setting up your TV
Using the TV's Features
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Connecting your TV

Note: Cables are not supplied with your TV.

- **Coaxial cable** is the cable that comes in from your antenna, cable TV service, or cable converter box. Coaxial cable uses "F" connectors.
- **Standard A/V (audio/video) cables** usually come in sets of three, and are typically color-coded according to use: yellow for video, red for stereo right audio, and white for stereo left (or mono) audio. On your TV's back panel, the standard A/V inputs are color-coded in the same manner as the cables.
- **S-Video cable** is for use with video equipment with S-Video output.
- **Component video cables** come in sets of three (color-coded red, green and blue), and are for use with video equipment with component video outputs. (ColorStream® is Toshiba's brand of component video.)
- **DVI-D digital single-link cable** is for use with video equipment with DVI-D output (see page 13).

Coaxial (antenna) cable

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

S-video cable

Component video cables (red, green, blue)

DVI-D digital single-link cable

NOTE REGARDING PICTURE QUALITY

When connecting video equipment to your Toshiba TV:

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

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, play or record on the VCR while watching TV, and record from one channel while watching another channel.

You will need:

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

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

If you have a VCR with S-video, use an S-video cable (plus audio cables) instead of the standard video cable for better picture performance.

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.

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Connecting a cable box

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

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

You will need:

• three coaxial cables

Connecting a cable box and VCR

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

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

You will need:

• four coaxial cables
• one set of standard A/V cables
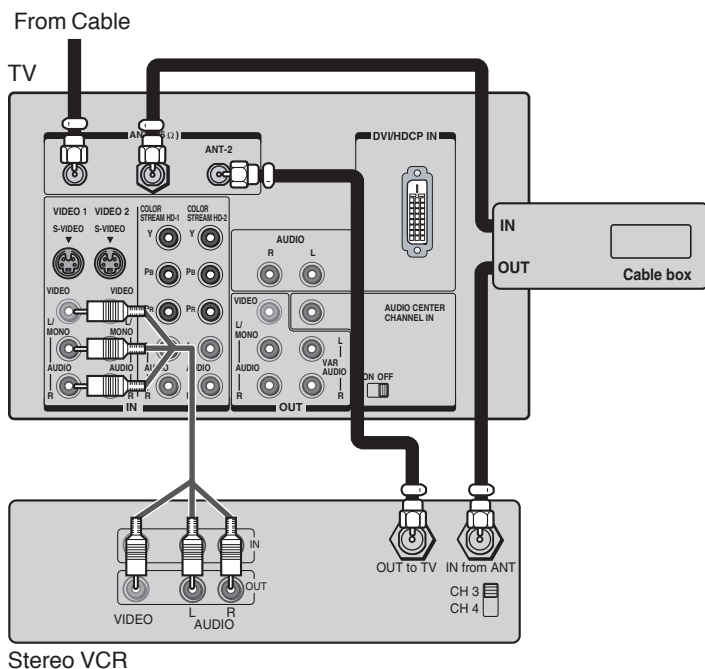
Stereo VCR

Note:

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

Note:

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

If you have a VCR with S-video, use an S-video cable (plus audio cables) instead of a regular 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 perfomance will not be acceptable.

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.

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Introduction

Connecting your TV

Using the Remote Control

Setting up your TV

Using the TV's Features

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Connecting a DVD player or satellite receiver (without component video) and a VCR

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

You will need:

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

Stereo VCR

From Antenna

TV

DVD Player

From Satellite Dish

Satellite Receiver
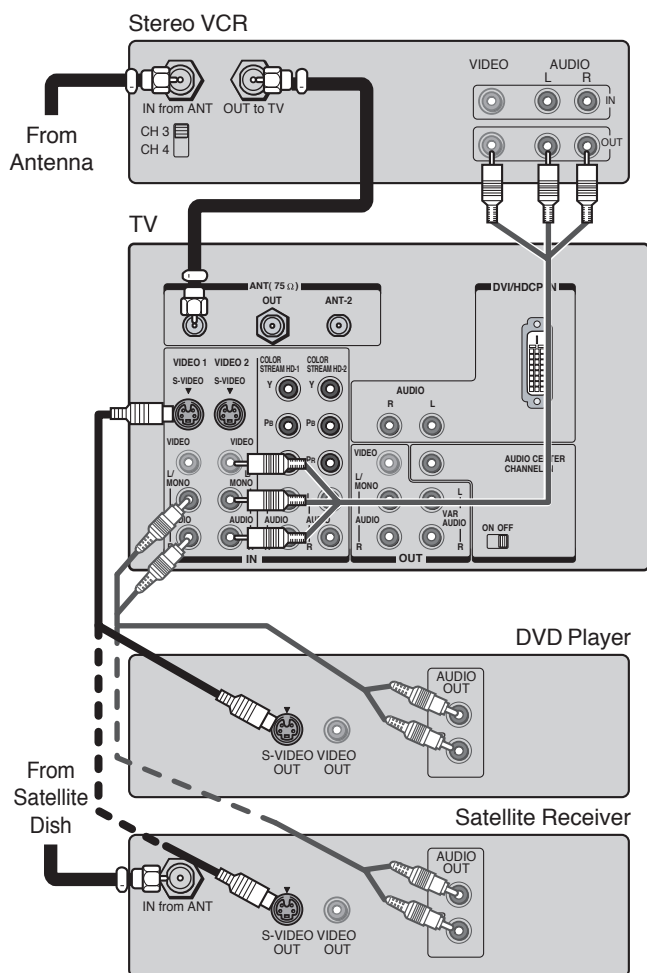
Note:

For the highest possible picture quality from a DVD player/satellite receiver, without component video (or DVI/HDCP), use an S-video cable. If your DVD player or satellite receiver has component video, see page 10.

If your DVD player or satellite receiver has DVI/HDCP, see page 13.

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

Do not connect the DVD player/satellite receiver and VCR to the same set of A/V inputs on the TV. (See the illustration, which shows the DVD player/satellite receiver connected to VIDEO 1 on the TV, and the VCR connected to VIDEO 2 on the TV.)

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Connecting a DVD player with component video and a VCR

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

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

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

– To record a TV program while watching a DVD, tune the VCR to the channel to record, and select ColorStream HD-1 on the TV (see "Selecting the antenna input" on page 21).

You will need:

• two coaxial cables
• one set of standard A/V cables
• one pair of audio cables
• one set of component video cables
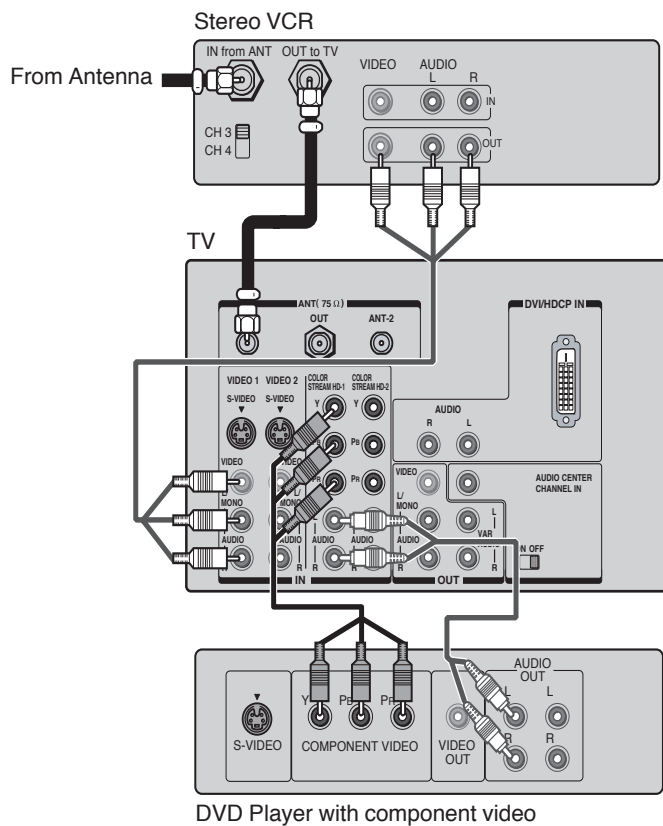
Note:

For the highest possible picture quality, use component video cables (or a DVI-D single-link cable) between the TV and DVD player. You can connect component video cables to either set of ColorStream jacks on the TV (HD-1 or HD-2).

The ColorStream HD-1 and HD-2 jacks can be used with Progressive (480p, 720p) and Interlaced (480i,1080i) scan systems. A 1080i signal will provide the best picture performance.

If your DVD player does not have component video (or DVI/HDCP,) use the S-video connections plus the standard audio connections instead. Do not connect both S-Video and standard video cables to VIDEO 1 (or VIDEO2) at the same time or the picture performance will be unacceptable. See page 9.
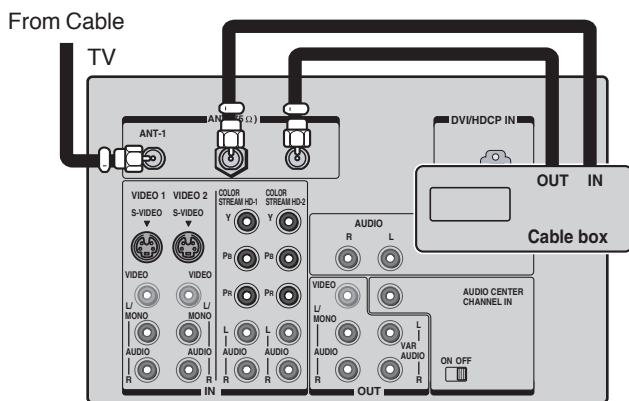
For DVI/HDCP connection, see page 13.

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DVD Player with component video

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Connecting a DTV receiver/set–top box with component video and a VCR

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

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

– To record and watch a DTV program, select LINE IN on the VCR, and select ColorStream HD-2 (or VIDEO 1 for a non-ColorStream connection) on the TV (see "Selecting the antenna input" on page 21).

– To record a TV program while watching a DTV program, tune the VCR to the channel to record, and select ColorStream HD-2 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 audio cables
- one set of component video cables
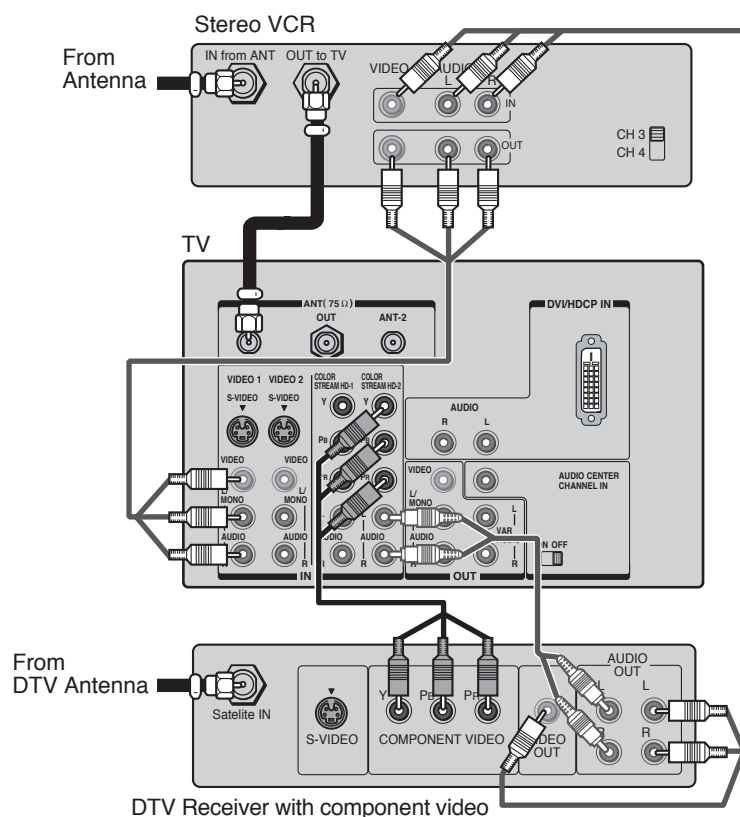
Note:

For the highest possible picture quality, use component video cables (or a DVI-D single-link cable) between TV and DTV receiver. You can connect the component video cables to either set of ColorStream jacks on the TV (HD-1 or HD-2).

The ColorStream HD-1 and HD-2 jacks can be used with Progressive (480p, 720p) and Interlaced (480i,1080i) scan systems. A 1080i signal will provide the best picture performance.

If your DTV receiver does not have component video (or DVI-HDCP video), use the S-video and standard audio connections instead. Do not connect both an S-video and a standard video cable to VIDEO1 (or VIDEO2) at the same time or the picture performance will be unacceptable.

For DVI/HDCP connection, see page 13.

To monitor recording, set the TV to VIDEO 1.

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Connecting two VCRs

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

You will need:

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

VCR1

From Antenna

TV

VCR2

* **

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

Camcorder

Video-3 (front panel)
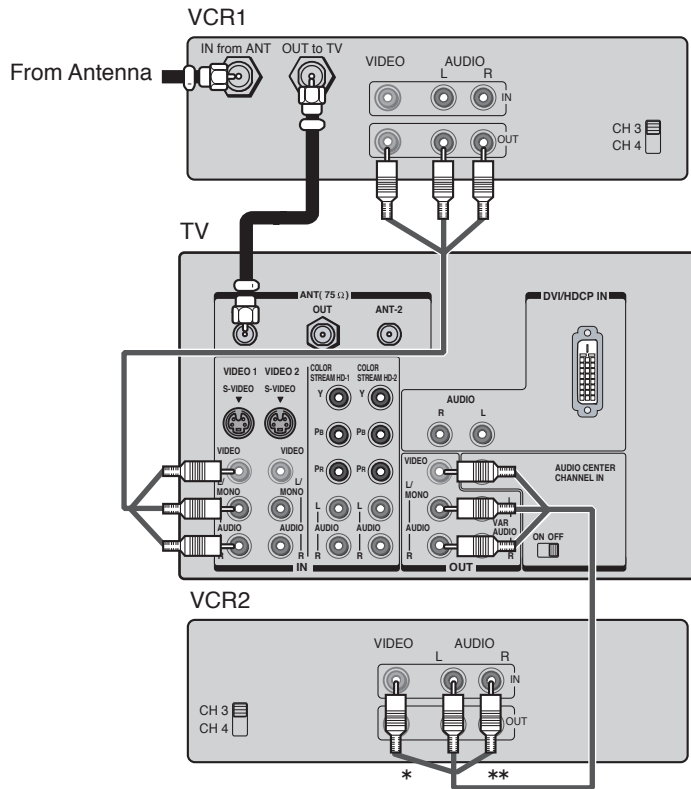
Note:

If VCR1 has S-video, you can use an S-video cable instead of the standard video cable 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 21).

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* *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).*

Note:

If your camcorder has S-video, you can use an S-video cable instead of the standard video cable for better picture performance. Do not connect both a standard video cable and an S-video cable at the same time, or the picture performance will be unacceptable.

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Connecting a device to the DVI/HDCP input

The DVI/HDCP[1] input on your TV is designed to accept HDCP program material in digital form from EIA/CEA-861–compliant[2] 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, 480i and 720p picture signals.

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

You will need:

- one coaxial cable
- one pair of standard audio cables
- 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).*
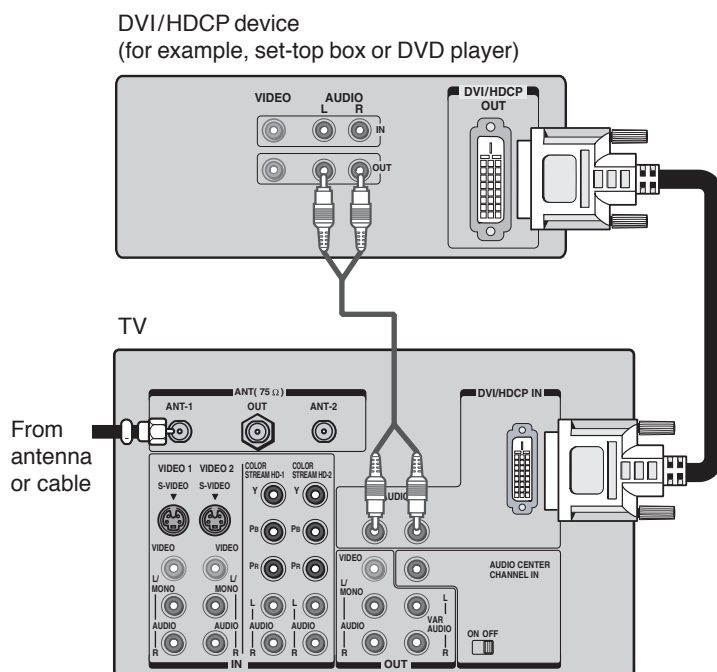
Note:

[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 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.*

DVI/HDCP device
(for example, set-top box or DVD player)

TV

From antenna or cable

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Connecting an audio system

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

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 to a moderate listening level.
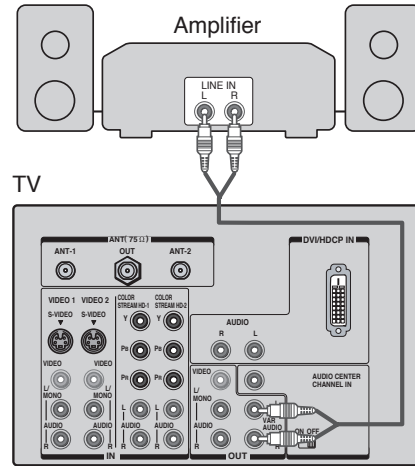
Connecting an A/V receiver

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

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

You will need:

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

TV
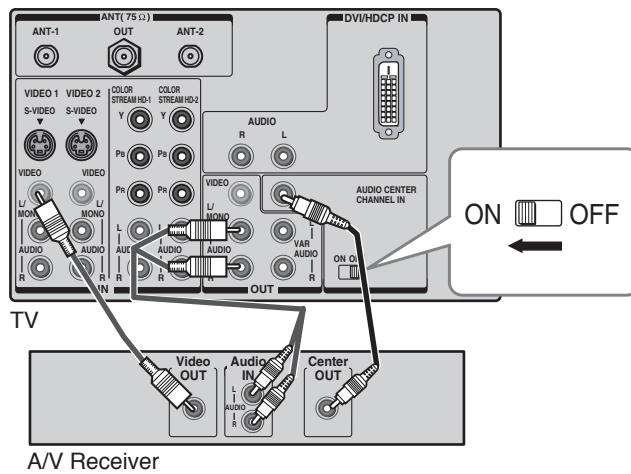
A/V Receiver

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.

Amplifier

TV

Caution:

To avoid damaging the speakers:

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

Dolby Pro Logic* surround sound system connection example

———
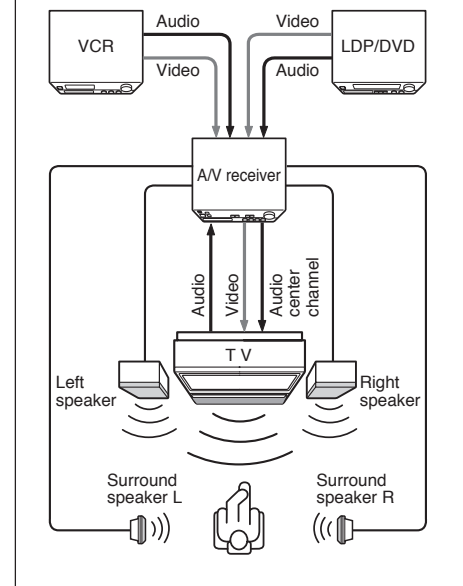
* "Dolby" and "Pro Logic" are trademarks of Dolby Laboratories.

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Using the remote control

Preparing the remote control for use

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

If you have a Toshiba device:

Your TV remote control is preprogrammed to operate most Toshiba devices. See page 18.

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

You can program the TV remote control so it will operate the other device. See pages 16–18.

Installing the remote control batteries

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

Squeeze tab and
lift cover.
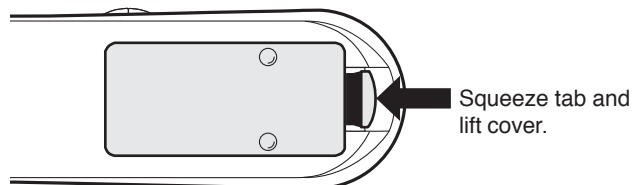
2. Install two "AA" size batteries, making sure to match the + and – signs on the batteries to the signs on the battery compartment.
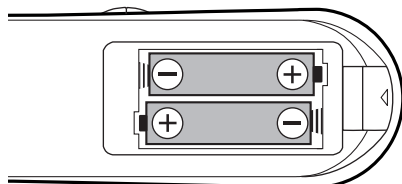
3. Reinsert the battery cover in the remote control until the tab snaps.

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

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

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Programming the remote control

Your Toshiba TV remote control is preprogrammed to operate most Toshiba devices. To program your TV remote control to operate a non-Toshiba device or a Toshiba device that the remote control is not preprogrammed to operate, follow the steps below. For details on using the remote control to operate the device, see page 18.

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

2. Set the Device Switch to the type of device you are programming the remote control to operate — **CBL/SAT** (for a cable converter box or satellite receiver), **VCR** (for a VCR or TV/VCR combo), or **DVD** (for a DVD player or HTIB [home theater in a box]).

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

4. To test the code, turn on the device, point the remote control at it, and press **POWER**.

   - If the correct code was entered, the device will turn off.
   - If the device does not respond, repeat steps 1 – 4 using another code.
   - If the device does not respond to another code, you will need to use the remote control that came with the device.

     Note: *In addition to POWER, confirm that all necessary keys on the TV remote control operate your device. If some keys are not operational, repeat the device code setup using another code (if other codes are listed for your device). If, after trying all listed codes, the necessary keys do not operate your device, use the device's original remote control.*

5. Remember to set the **Device Switch** back to **TV** to control the TV.

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

DEVICE	CODE	DEVICE	CODE

RECALL
POWER
Channel Number
Device Switch

Note:
- *Every time you change the batteries, you will need to reprogram the remote control.*
- *Some newer VCRs respond to either of two codes. These VCRs have a switch labeled "VCR1/VCR2." If your VCR has this kind of switch and does not respond to the codes for your VCR brand, set the switch to the other position ("VCR1" or "VCR2") and reprogram the remote control.*

Remote control codes

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

Cable box

ABC: 061, 062, 063, 082, 084, 087, 091, 092, 096, 098
Archer: 065, 092, 097, 099
Cableview: 064, 094
Century: 092
Citizen: 090, 092, 097
Contec: 083, 085, 086, 088, 093, 098
Diamond: 093
Eagle: 091
GE: 061, 062
Gemini: 069, 070, 094
General Instruments: 062, 089, 096
Hamlin: 093

Hitachi: 062, 095, 096
Jasco: 097
Jerrold: 062, 069, 071, 082, 086, 089, 091, 096
Magnavox: 072, 096
Memorex: 091, 092, 104
Multi Canal: 090
Novavision: 101
Panasonic: 081, 083, 085
Philco: 087
Philips: 066, 067, 068, 070, 072, 073, 074, 075, 091, 092
Pioneer: 076, 077
Proscan: 061, 062
Radio Shack: 092, 097, 099
RCA: 064, 081

Realistic: 065
Recoton: 102
Samsung: 077, 090
Scientific Atlanta: 063, 078, 079, 080, 088, 098, 101, 105
Sears: 095
Signature: 062
Signature 2000: 096
Sprucer: 081, 085
Starcom: 069, 082, 087, 096, 103, 104
Stargate: 069, 090
Sylvania: 095, 100
TeleView: 090
Texscan: 100
Tocom: 071, 084, 085

U. S. Electronics: 087, 096, 098
United Cable: 082
Universal: 065, 092, 097, 099, 102, 103
Wards: 096

Satellite receiver

Alphastar: 038, 059
Chaparral: 034
DISH Network: 057
Drake: 020, 040, 044, 046, 050, 053
Echostar: 018, 041, 051
Express Vu: 057
Fujitsu: 027
GE: 008, 009, 013

General Instruments: 010, 011, 012, 022, 023, 031, 049
Hitachi: 033
Hughes: 033
Hughes Network Systems: 019
Intersat: 048
Janeil: 027
JVC: 017, 057
Kenwood: 029
Magnavox: 060
Optimus: 058
Pansat: 036, 052
Primestar: 015, 042
Proscan: 008, 009, 013
Radio Shack: 022, 023, 030

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Remote control codes (cont.)

Satellite receiver (cont.)

RCA: 008, 009, 013, 016
Realistic: 030
Samsung: 059
Sony: 014, 055
Star Choice: 057
Star Trak: 025, 026, 037, 054
STS: 024
Toshiba: 000, 001, 002, 003, 004, 005, 006, 007, 020, 031, 056
Uniden: 021, 028, 030, 032, 035, 039, 043, 045, 047, 058
Zenith: 027

TV/VCR Combo

Action: 078
GE: 059, 062
Goldstar: 065
Panasonic: 065
Precision: 078
Quasar: 065
Realistic: 079
Sony: 074
Toshiba: 057
Zenith: 065

DVD/VCR Combo

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

DVD player

Aiwa: 006, 015
Apex: 016, 017
BOSE: 097
Broksonic: 018
Clarion: 019
Classic: 020
Daewoo: 021
Denon: 022, 023, 024, 025
Emerson: 026, 027
Fisher: 028
Funai: 027
GE: 001, 029, 030
Go Video: 087
GPX: 031

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

Portable DVD player

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

VCR

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

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

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

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

HTIB

Lasonic: 083
Panasonic: 084
Venturer: 085

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Using the remote control to operate your other devices

If you have a non-Toshiba device or a Toshiba device that the remote control is not preprogrammed to operate, you must first program the remote control to recognize the device (if you have not already done so). See pages 16 and 17.
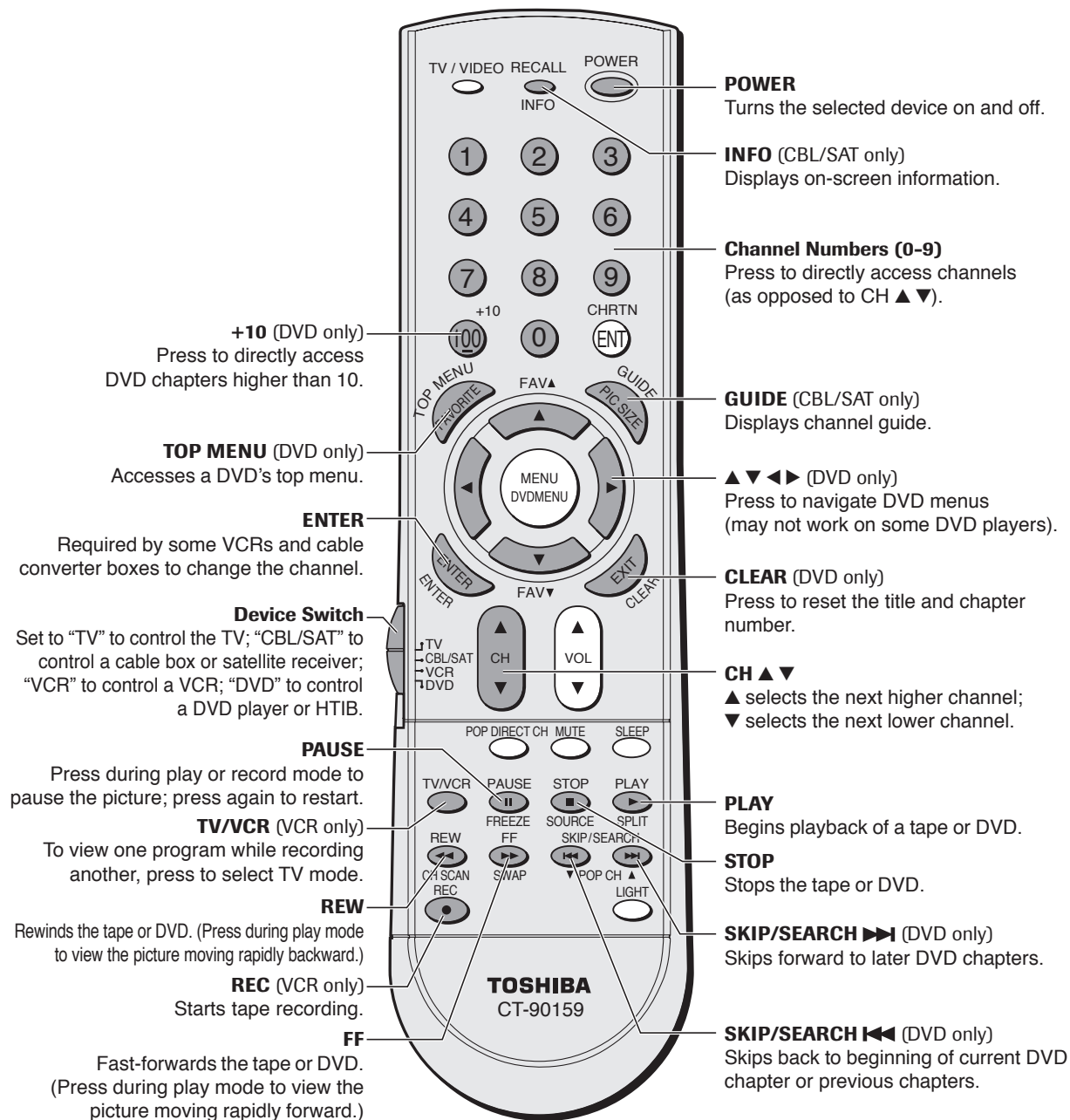
To use your TV remote control to operate a:

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

Note:

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

Point the remote control directly at the device.

+10 (DVD only)
Press to directly access DVD chapters higher than 10.

TOP MENU (DVD only)
Accesses a DVD's top menu.

ENTER
Required by some VCRs and cable converter boxes to change the channel.

Device Switch
Set to "TV" to control the TV; "CBL/SAT" to control a cable box or satellite receiver; "VCR" to control a VCR; "DVD" to control a DVD player or HTIB.

PAUSE
Press during play or record mode to pause the picture; press again to restart.

TV/VCR (VCR only)
To view one program while recording another, press to select TV mode.

REW
Rewinds the tape or DVD. (Press during play mode to view the picture moving rapidly backward.)

REC (VCR only)
Starts tape recording.

FF
Fast-forwards the tape or DVD. (Press during play mode to view the picture moving rapidly forward.)

POWER
Turns the selected device on and off.

INFO (CBL/SAT only)
Displays on-screen information.

Channel Numbers (0-9)
Press to directly access channels (as opposed to CH ▲ ▼).

GUIDE (CBL/SAT only)
Displays channel guide.

▲ ▼ ◄ ► (DVD only)
Press to navigate DVD menus (may not work on some DVD players).

CLEAR (DVD only)
Press to reset the title and chapter number.

CH ▲ ▼
▲ selects the next higher channel;
▼ selects the next lower channel.

PLAY
Begins playback of a tape or DVD.

STOP
Stops the tape or DVD.

SKIP/SEARCH ►►| (DVD only)
Skips forward to later DVD chapters.

SKIP/SEARCH |◄◄ (DVD only)
Skips back to beginning of current DVD chapter or previous chapters.

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Learning about the remote control

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

POWER turns the TV on and off

RECALL displays screen information (page 53)

SLEEP sets the TV to turn off at a specific time (page 47)

TV/VIDEO selects video input source (page 45)

MUTE mutes the sound (page 49)

Device Switch switches between TV, CLB/SAT/VCR, and DVD (Pages 16-18) Set to "TV" to control the TV.

CH (channel) ▲▼ cycles through programmed channels (page 24)

Channel Numbers (0-9, 100) allow direct access to channels (page 24)

VOL (volume) ▲▼ adjusts the volume level

CH RTN returns to the memorized channel (page 25)

MENU allows access to on-screen programming menus (page 20)

ENTER sets programmed menu information (page 20)

▲▼◄► select or adjust programming menus (page 20)

POP CH ▲▼ selects the POP (picture-out-picture) channel (page 32)

FAV ▲▼ cycles through favorite channels (page 26)

FAVORITE allows access to the favorite channel search function (page 35)

PIC SIZE cycles through the five picture sizes: Natural, Theater Wide 1, 2, 3, and Full (page 28)

EXIT exits programming menus (page 20)

SPLIT turns the POP feature on and off (page 32)

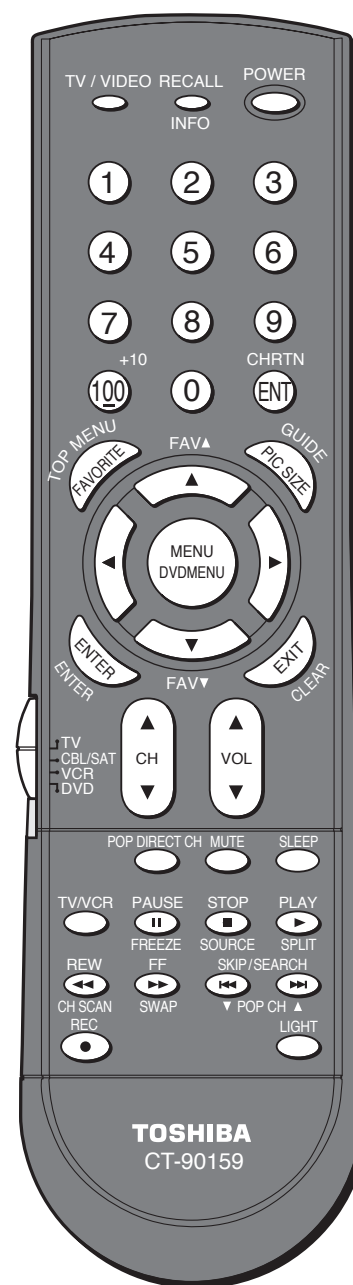**SOURCE** selects the POP picture source (page 32)

FREEZE freezes the POP picture (page 33)

SWAP switches the main and POP pictures (page 33)

POP DIRECT CH allows direct access to POP channels (page 32)

CH SCAN allows access to the programmed channel search function (page 34)

LIGHT illuminates the keypad for five seconds

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

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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 your TV or remote control.

1. Press MENU to display the menu system.
2. Press ◄ (‹) or ► (›) to select a menu.
3. Press ▲ (∧) or ▼ (∨) select an item.
4. Press ◄ (‹) or ► (›) to select or adjust a setting.
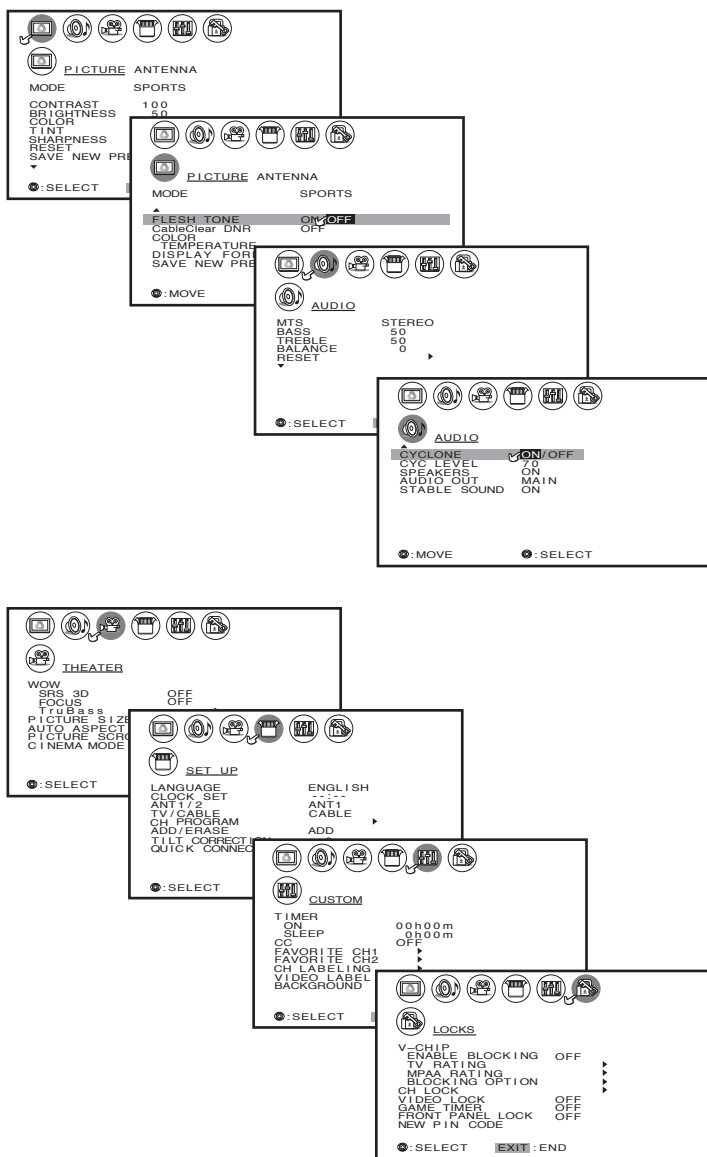
• Press ENTER to activate the function settings in the menus.

• The main menu display will disappear automatically if you do not make a selection within 15 seconds. If you want to close all the on-screen displays instantly, press EXIT.
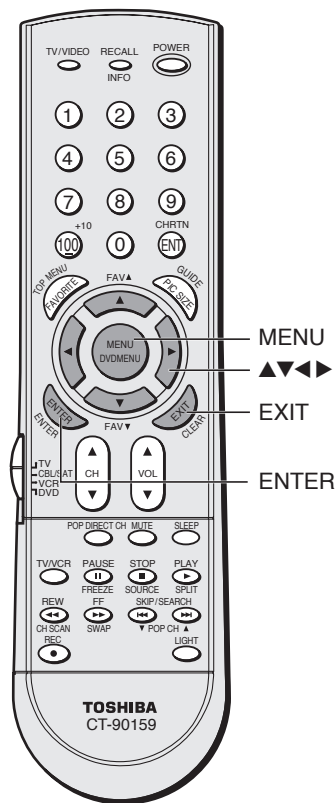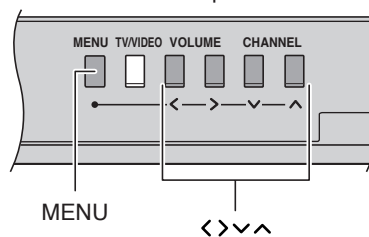
TV front panel

MENU   TV/VIDEO   VOLUME   CHANNEL

‹ — › — ∨ — ∧

MENU

‹ › ∨ ∧

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MENU

▲▼◄►

EXIT

ENTER

Note:
You can change the background of the menu. See page 48 for details.

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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.


```
        SET UP
LANGUAGE  ✓ENGLISH / FRANCAIS / ESPANOL
CLOCK SET           --:--
ANT 1 / 2           ANT1
TV / CABLE          CABLE
CH PROGRAM                      ▶
ADD / ERASE         ADD
TILT CORRECTION     0
QUICK CONNECT GUIDE             ▶
```
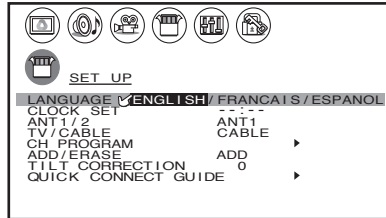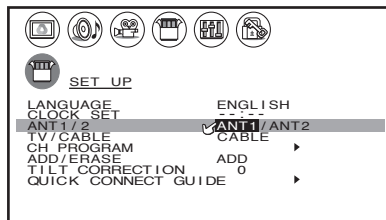
3. Press ◀ (<) or ▶ (>) to highlight your desired language.

Selecting the antenna input

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

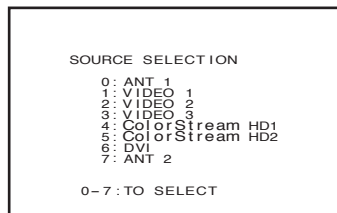To select the antenna input using the menu system:

1. Press MENU, and then press ◀ (<) or ▶ (>) to highlight the SET UP menu.

2. Press ▲ (∧) or ▼ (∨) to highlight ANT 1/2.


```
        SET UP
LANGUAGE            ENGLISH
CLOCK SET           --:--
ANT 1 / 2         ✓ANT1 / ANT2
TV / CABLE          CABLE
CH PROGRAM                      ▶
ADD / ERASE         ADD
TILT CORRECTION     0
QUICK CONNECT GUIDE             ▶
```
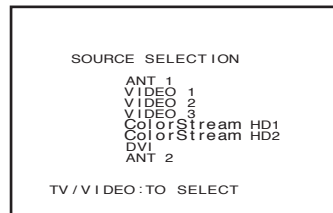
3. Press ◀ (<) or ▶ (>) to highlight either ANT 1 or ANT 2, depending on the antenna terminal you wish to use.

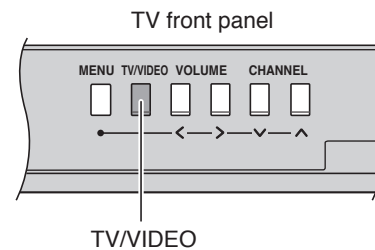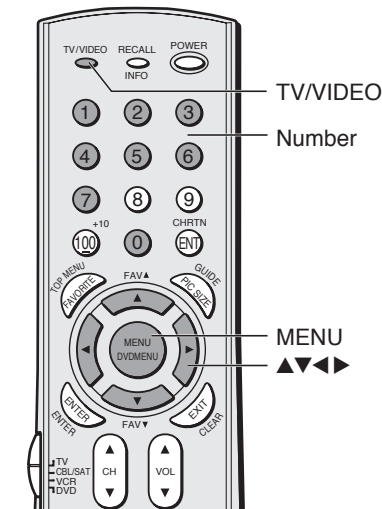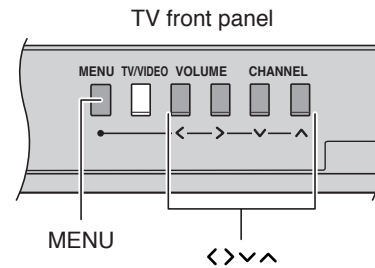To select the antenna input using the TV/VIDEO button:

1. Press the TV/VIDEO button on the remote control or TV (see illustrations below). The current signal source displays in purple.

2. Continue pressing the TV/VIDEO button to select ANT 1 or ANT 2.


```
SOURCE SELECTION

0: ANT 1
1: VIDEO 1
2: VIDEO 2
3: VIDEO 3
4: ColorStream HD1
5: ColorStream HD2
6: DVI
7: ANT 2

0-7: TO SELECT
```



```
SOURCE SELECTION

ANT 1
VIDEO 1
VIDEO 2
VIDEO 3
ColorStream HD1
ColorStream HD2
DVI
ANT 2

TV/VIDEO: TO SELECT
```

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

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

---

TV front panel

MENU

< > ∨ ∧

TV/VIDEO

Number

MENU

▲▼◀▶

TV front panel

TV/VIDEO

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.

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Programming channels into the channel memory

When you press Channel ▲ (∧) or ▼ (∨) on the TV or remote control, your TV will stop only on the channels stored in the channel memory.
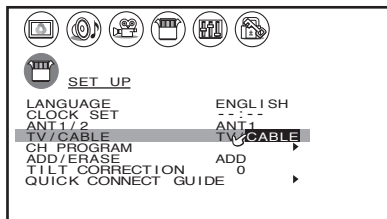
Follow the steps below and on the next page to program all active channels into the memory.
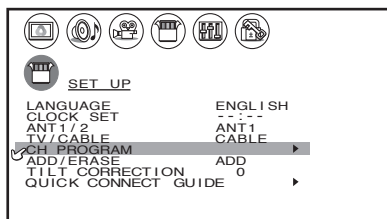
Programming channels automatically

Your TV can automatically detect all active channels in your area and store them in the channel memory. After the channels are stored automatically, you can manually add or erase individual channels (see "Adding and erasing channels manually," below).

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.

```
           SET  UP
LANGUAGE              ENGLISH
CLOCK  SET           --:--
ANT1/2               ANT1
TV/CABLE             CABLE          ▶
CH  PROGRAM                          ▶
ADD/ERASE            ADD
TILT  CORRECTION       0
QUICK  CONNECT  GUIDE               ▶
```

4. Press ▼ (∨) to select CH PROGRAM.

```
           SET  UP
LANGUAGE              ENGLISH
CLOCK  SET           --:--
ANT1/2               ANT1
TV/CABLE             CABLE
CH  PROGRAM                          ▶
ADD/ERASE            ADD
TILT  CORRECTION       0
QUICK  CONNECT  GUIDE               ▶
```

5. 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.

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

7. Press Channel ▲ (∧) or ▼ (∨) to view the programmed channels.

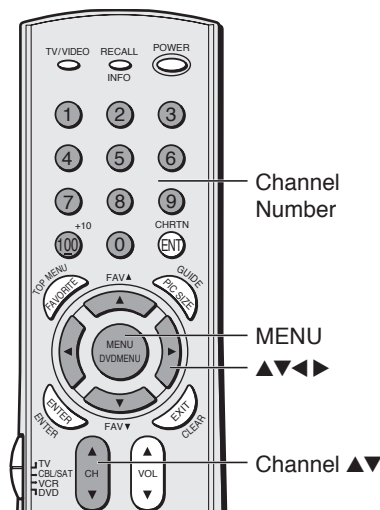### Adding and erasing channels manually

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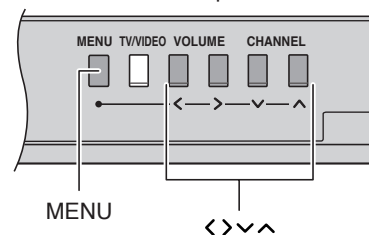
To add or erase channels:

1. Select the channel you want to add or erase. If you are adding a channel, you must select the channel using the Channel Number buttons.

2. Press MENU, and then press ◀ (‹) or ▶ (›) until the SET UP menu appears.

Channel Number

MENU

▲▼◀▶

Channel ▲▼

TV front panel

MENU

‹ › ∨ ∧

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3. Press ▲ (∧) or ▼ (∨) to highlight ADD/ERASE.

```
SET UP
LANGUAGE            ENGLISH
CLOCK SET           - - : - -
ANT1 / 2            ANT1
TV / CABLE          CABLE      ►
CH PROGRAM                     ►
ADD / ERASE         ☑ADD / ERASE
TILT CORRECTION     0
QUICK CONNECT GUIDE            ►
```
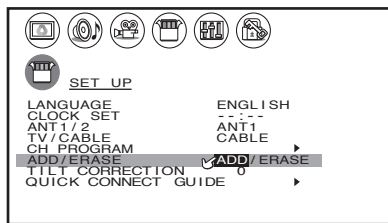
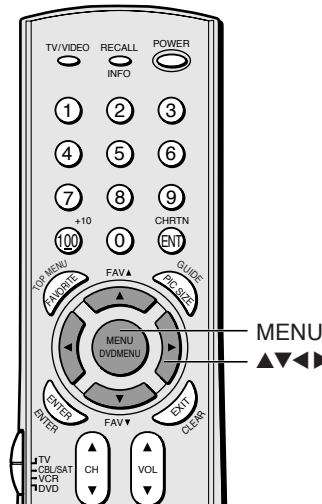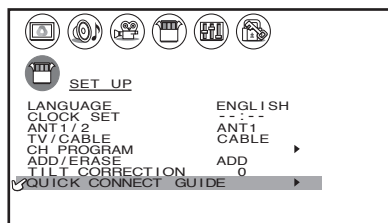4. Press ◄ (‹) or ► (›) to select ADD or ERASE, depending on the function you want to perform.

5. Repeat steps 1-4 for other channels you want to add or erase.

Using the Quick Connect Guide

The Quick Connect Guide automatically starts the first time the TV is turned on. This feature provides on-screen instructions to guide you through setting up your TV.
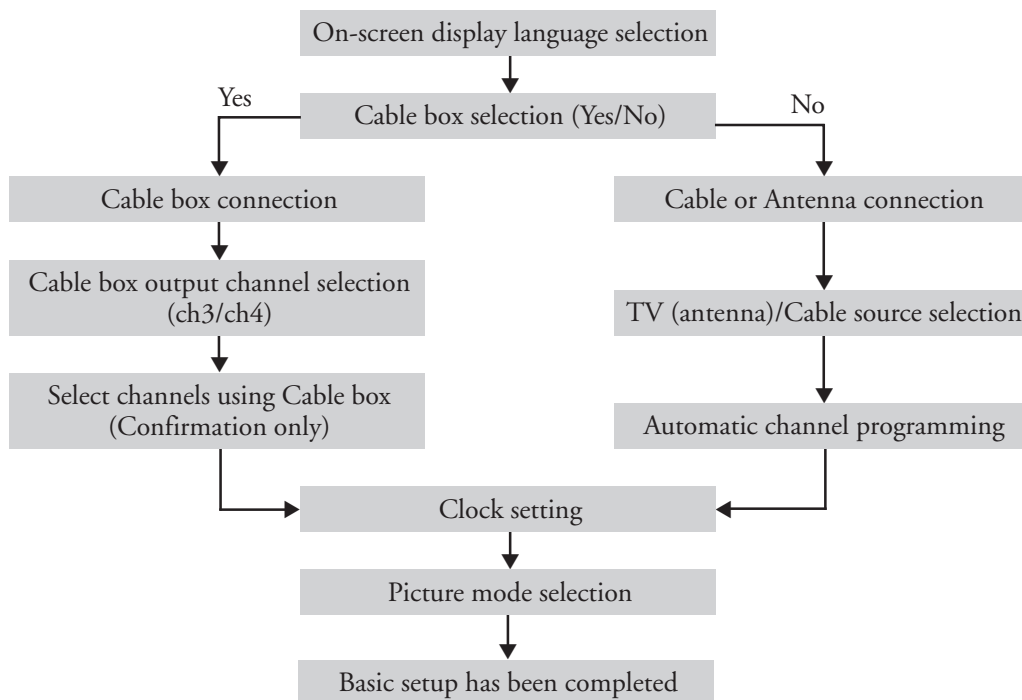
To manually start the Quick Connect guide:

1. Press MENU, and then press ◄ or ► until the SET UP menu appears.

2. Press ▲ or ▼ to highlight "QUICK CONNECT GUIDE."

```
SET UP
LANGUAGE            ENGLISH
CLOCK SET           - - : - -
ANT1 / 2            ANT1
TV / CABLE          CABLE
CH PROGRAM                     ►
ADD / ERASE         ADD
TILT CORRECTION     0
☑QUICK CONNECT GUIDE          ►
```

MENU
▲▼◄►

Note:

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

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

On-screen display language selection

↓

Yes ← Cable box selection (Yes/No) → No

Cable box connection | Cable or Antenna connection

↓ | ↓

Cable box output channel selection (ch3/ch4) | TV (antenna)/Cable source selection

↓ | ↓

Select channels using Cable box (Confirmation only) | Automatic channel programming

↘ Clock setting ↙

↓

Picture mode selection

↓

Basic setup has been completed

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Changing channels

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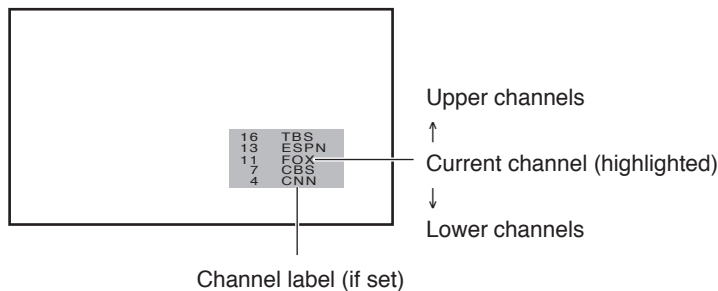
To change to the next programmed channel:
> Press Channel ▲ or ▼ on the TV or remote control.

Changing channels using SpeedSurf

To use SpeedSurf to change to a specific programmed channel:

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

Channel Number

Channel ▲▼

```
16   TBS
13   ESPN
11   FOX
7    CBS
4    CNN
```

Upper channels
↑
Current channel (highlighted)
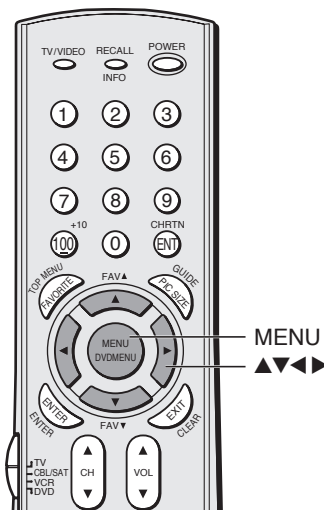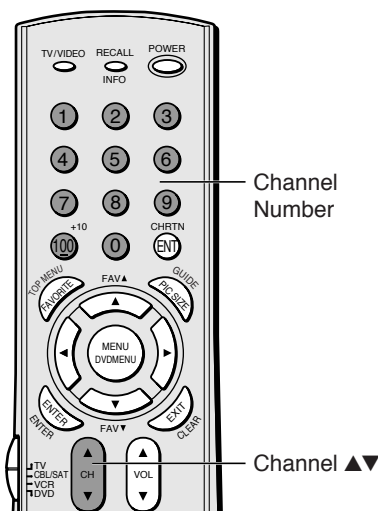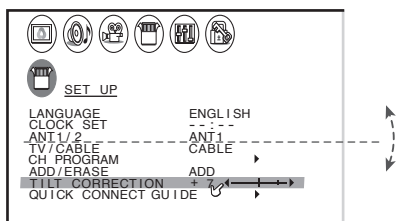↓
Lower channels

Channel label (if set)

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

Adjusting the tilt correction feature

When you install the TV or change the direction of the TV, the picture may become tilted because of the terrestrial magnetism. If so, the following adjustment should be made for the best possible picture.

To adjust the tilt correction:

1. Press MENU, then press ◀ or ▶ until the SET UP menu appears.

2. Press ▲ or ▼ to highlight TILT CORRECTION.

3. Press ◀ or ▶ to correct any tilt of the picture (from +10 to –10).

MENU
▲▼◀ ▶

```
SET UP

LANGUAGE          ENGLISH
CLOCK SET         - - : - -
ANT1/2            ANT1
TV/CABLE          CABLE
CH PROGRAM              ▶
ADD/ERASE         ADD
TILT CORRECTION   + ⚡ ◀———┼———▶
QUICK CONNECT GUIDE     ▶
```

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Adjusting the channel settings

Switching between two channels using Channel Return

The Channel Return feature allows you to switch between two channels without entering an actual channel number each time.

1. Select the first channel (or video mode) you want to view.
2. Select a second channel using the Channel Number buttons (0–9, 100).
3. Press CH RTN. The previous channel will display.

Each time you press CH RTN, the TV will switch back and forth between the last two channels that were selected.

Switching between two channels using SurfLock™

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

To memorize a channel in the CH RTN button:

1. Select the channel you want to program into the CH RTN button.

2. Press and hold CH RTN for about 2 seconds until the message "Channel Memorized" appears (flashing) on the screen. The channel has been programmed into the CH RTN button (SurfLock memory).

```
CHANNEL  MEMOR I ZED
                        ANT  1

             CABLE    6
```

3. Continue to change channels.
4. Press CH RTN. The memorized channel will be selected.

The TV will return to the memorized channel one time only. Once you press CH RTN and then change channels again, the 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 preset up to 7 of your favorite channels each for FAVORITE CH1 and FAVORITE CH2 modes using the Favorite Channel Programming feature. Because this feature scans through only your favorite channels, it allows you to skip other channels you do not normally watch.

To program your favorite channels:

1. Press MENU, and then press ◄ or ► until the CUSTOM menu appears.
2. Press ▲ or ▼ to highlight FAVORITE CH1 or FAVORITE CH2.
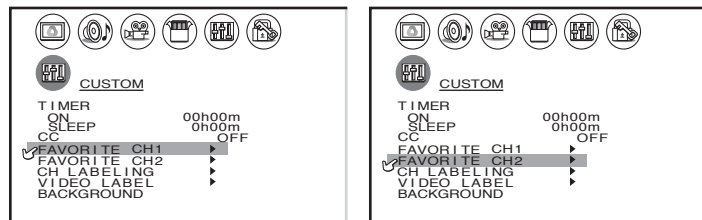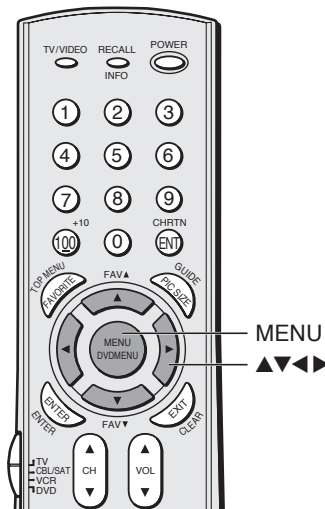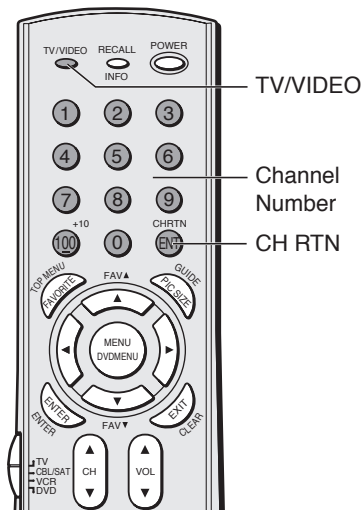
TV/VIDEO

Channel Number

CH RTN

MENU

▲▼◄►

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

```
CUSTOM

TIMER
  ON            00h00m
  SLEEP         0h00m
CC              OFF
FAVORITE CH1    ✓CH INPUT   ***
FAVORITE CH2  ►           0    0    0
CH LABELING   ►           0    0    0
VIDEO LABEL   ►           0
BACKGROUND              TV CABLE
                CLEAR  ALL    ►
```
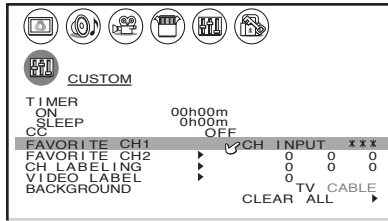
4. Press the Channel Number buttons to enter one of your favorite channels.

5. Press ENTER.

6. Repeat steps 4 and 5 for other channels.
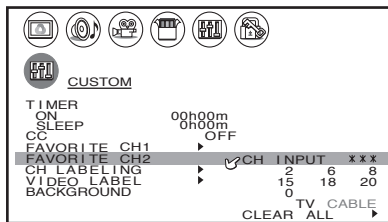
To select your favorite channels:

Press FAV ▼ or ▲.

To quickly scan through your favorite channels in a seven-picture multi-window:
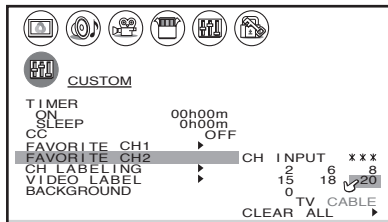
Press FAVORITE (see page 35).

To clear a favorite channel:

1. Press MENU, and then press ◄ or ► until the CUSTOM menu appears.

2. Press ▲ or ▼ to highlight FAVORITE CH2, for example.

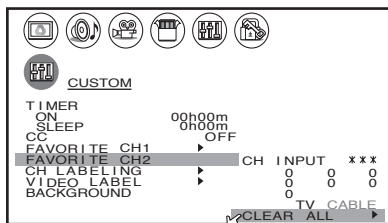3. Press ◄ or ► to display the FAVORITE CH2 menu.

```
CUSTOM

TIMER
  ON            00h00m
  SLEEP         0h00m
CC              OFF
FAVORITE CH1  ►
FAVORITE CH2    ✓CH INPUT   ***
CH LABELING   ►           2    6    8
VIDEO LABEL   ►          15   18   20
BACKGROUND              0
                       TV CABLE
                CLEAR  ALL    ►
```

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

```
CUSTOM

TIMER
  ON            00h00m
  SLEEP         0h00m
CC              OFF
FAVORITE CH1  ►
FAVORITE CH2    CH INPUT   ***
CH LABELING   ►         2    6    8
VIDEO LABEL   ►        15   18  ✓20
BACKGROUND             0
                     TV CABLE
              CLEAR  ALL    ►
```
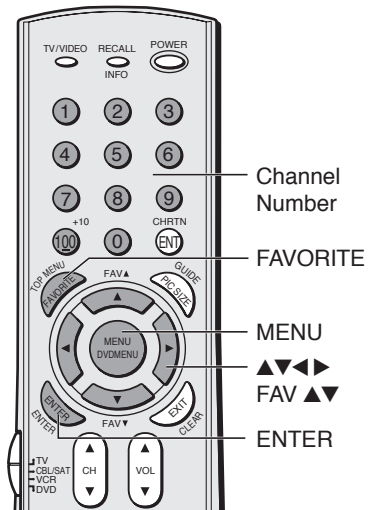
5. Repeat step 4 for other channels.

To clear all favorite channels at once:

Press ▲ or ▼ to highlight CLEAR ALL in step 4 above, and then press ◄ or ► to clear all favorite channels at once.

```
CUSTOM

TIMER
  ON            00h00m
  SLEEP         0h00m
CC              OFF
FAVORITE CH1  ►
FAVORITE CH2    CH INPUT   ***
CH LABELING   ►         0    0    0
VIDEO LABEL   ►         0
BACKGROUND             0
                     TV CABLE
              ✓CLEAR  ALL    ►
```

Note:

- *The FAV ▲▼ buttons operate as MENU ▲▼ buttons when a menu is on-screen.*
- *The favorite channel feature is not available in ANT2 mode.*

Channel Number

FAVORITE

MENU
▲▼◄►
FAV ▲▼

ENTER

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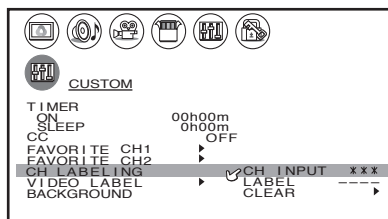Setting up your TV

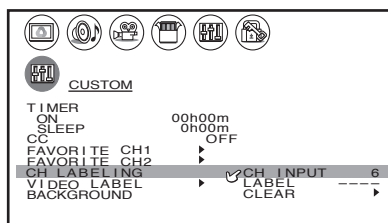Using the TV's Features

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Labeling channels

Channel labels appear above the on-screen channel number display each time you turn on the TV, change a channel, or press RECALL. You can choose any four characters to identify a channel. You can assign labels to a maximum of 32 channels.
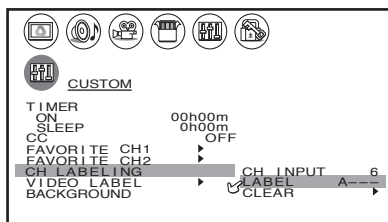
To create channel labels:

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.
   CH INPUT will be highlighted.

```
CUSTOM
TIMER
  ON           00h00m
  SLEEP         0h00m
CC              OFF
FAVORITE CH1     ►
FAVORITE CH2     ►
CH LABELING       CH INPUT   ***
VIDEO LABEL  ►    LABEL      ----
BACKGROUND        CLEAR       ►
```

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

```
CUSTOM
TIMER
  ON           00h00m
  SLEEP         0h00m
CC              OFF
FAVORITE CH1     ►
FAVORITE CH2     ►
CH LABELING       CH INPUT    6
VIDEO LABEL  ►    LABEL      ----
BACKGROUND        CLEAR       ►
```

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

```
CUSTOM
TIMER
  ON           00h00m
  SLEEP         0h00m
CC              OFF
FAVORITE CH1     ►
FAVORITE CH2     ►
CH LABELING       CH INPUT    6
VIDEO LABEL  ►    LABEL      A---
BACKGROUND        CLEAR       ►
```

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

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

8. Repeat steps 4–7 for other channels.

To erase channel labels:

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. Select the channel you want to clear with the Channel Number buttons.
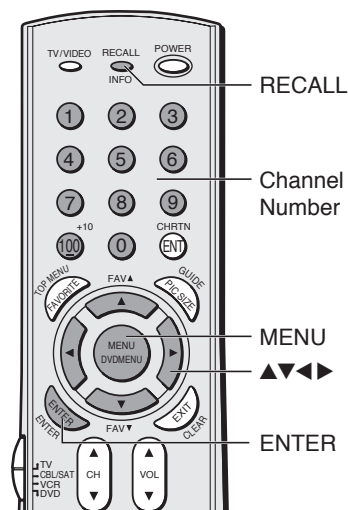
RECALL

Channel Number

MENU
▲▼◄►

ENTER

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5. Press ▼ to highlight CLEAR.

6. Press ◄ or ► to erase the channel label.

7. Repeat steps 4–6 to erase other channel labels.

```
CUSTOM
TIMER
  ON                    00h00m
  SLEEP                 0h00m
CC                      OFF
FAVORITE  CH1        ►
FAVORITE  CH2        ►
CH  LABELING           CH  INPUT    6
VIDEO  LABEL         ►  LABEL   ABCD
BACKGROUND              CLEAR     ►
```
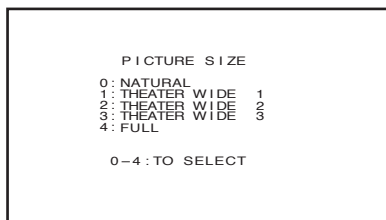
Number

PIC SIZE

▲▼◄►
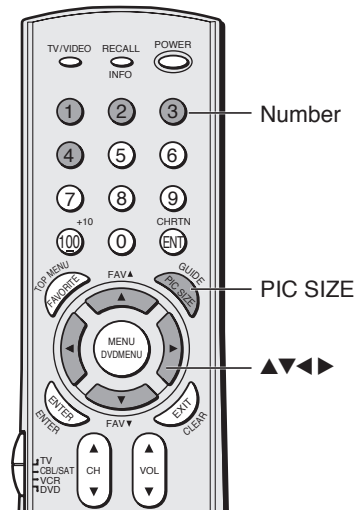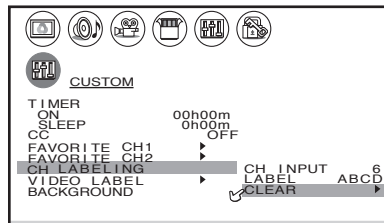
Viewing the wide–screen picture formats

You can view programs that have the conventional TV picture format (4:3 aspect ratio) and the wide-screen format (16:9 aspect ratio) in a variety of picture sizes.

Selecting the picture size

Repeatedly press PIC SIZE to select either Natural, Theater Wide 1, Theater Wide 2, Theater Wide 3, or Full picture size, as described below.

```
      PICTURE  SIZE

0 : NATURAL
1 : THEATER  WIDE    1
2 : THEATER  WIDE    2
3 : THEATER  WIDE    3
4 : FULL

      0–4 : TO  SELECT
```

While the above menu is on the screen, you can select the desired picture size by pressing the corresponding number button.

• 480i/480p signal source   : 0-4

• 1080i/720p signal source : fixed to 0 (Natural)

Receiving 480i/480p signal source

Natural

The Natural picture size displays the picture in the conventional 4:3 aspect ratio, with bars at the left and right.
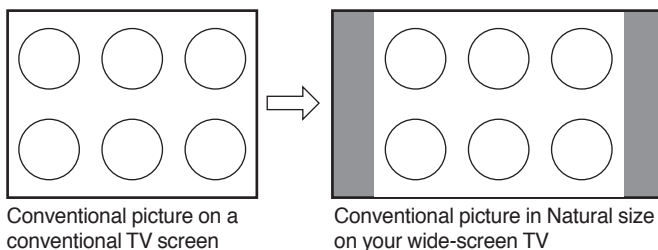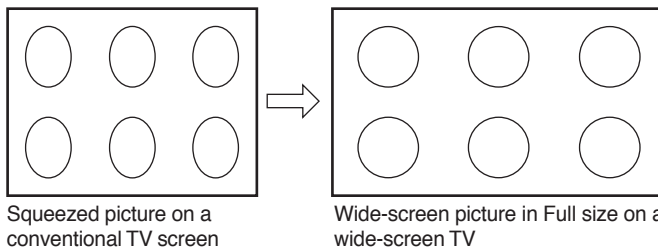
Conventional picture on a conventional TV screen

Conventional picture in Natural size on your wide-screen TV

Full

This mode is to enjoy the wide-screen format (16:9 aspect ratio).

Squeezed picture on a conventional TV screen

Wide-screen picture in Full size on a wide-screen TV

Note:
If you select the Theater Wide picture mode for conventional size programs, parts of the picture at the top and bottom of the screen may be hidden.
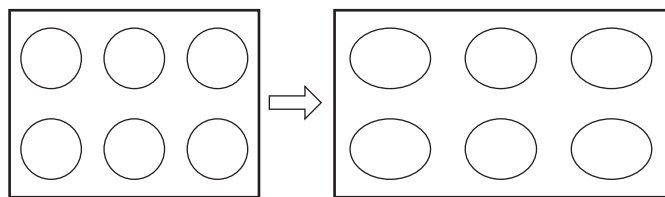
Note:
If you see the Full picture size for conventional TV picture format (4:3 aspect ratio), the picture will be horizontally stretched.

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Theater Wide 1

- 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.
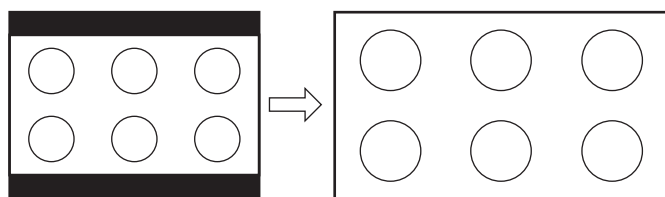

Conventional picture on a conventional TV screen

Theater Wide 1

Theater Wide 2

- 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 30.
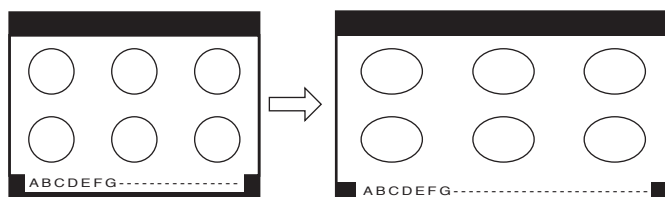

Wide-screen picture on a conventional TV screen (also known as the "letter box" format, with bar at top and bottom)

Theater Wide 2

Theater Wide 3

- 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 (Subtitle, Caption, etc), see "Scrolling the Theater Wide picture" on page 30.

Wide-screen picture on a conventional TV screen with subtitles

Theater Wide 3

Note:

You can also change the Theater Wide 1, 2, 3 using the menu system.
Select PICTURE SIZE in the THEATER menu.
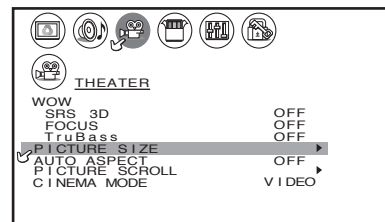

```
              THEATER
WOW
   SRS  3D                    OFF
   FOCUS                      OFF
   TruBass                    OFF
   PICTURE  SIZE                ▶
   AUTO  ASPECT               OFF
   PICTURE  SCROLL              ▶
   CINEMA  MODE              VIDEO
```

NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

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

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

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

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

```
THEATER
WOW
 SRS 3D              OFF
 FOCUS               OFF
 TruBass             OFF    ▶
PICTURE SIZE
AUTO ASPECT          OFF    ▶
PICTURE SCROLL              ▶
CINEMA MODE          VIDEO
```

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

```
SCROLL  ADJUSTMENT    0

    ▲▼ : TO  ADJUST
```

5. Press ▲ or ▼ to adjust the vertical position of the picture.
   • Normal (center) position

```
SCROLL  ADJUSTMENT    0

    ▲▼ : TO  ADJUST
```

• To raise the picture, press ▲ .

```
SCROLL  ADJUSTMENT    +20

    ▲▼ : TO  ADJUST
```
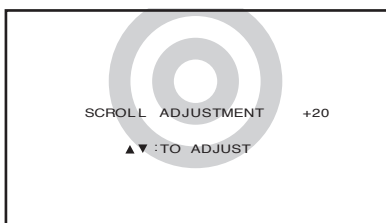
• To lower the picture, press ▼.

```
SCROLL  ADJUSTMENT    −10

    ▲▼ : TO  ADJUST
```

PIC SIZE

MENU

▲▼◀▶
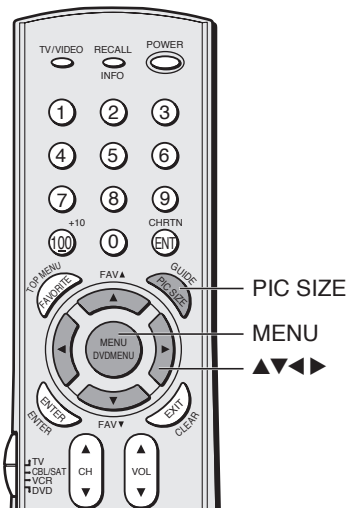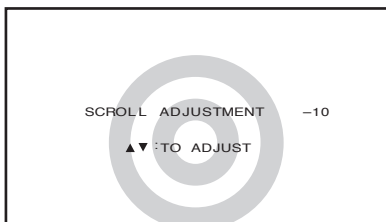
Note:
You can scroll the picture in Theater Wide 2 and Theater Wide 3 only. The scroll amounts are as follows:

• *480i signal source:*

  Wide 1 : Not adjustable
  Wide 2 : +20 to −10
  Wide 3 : +20 to −10

• *480p signal source:*

  Wide 1 : Not adjustable
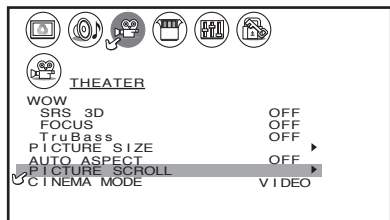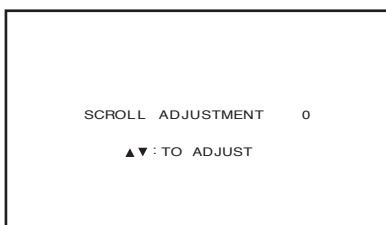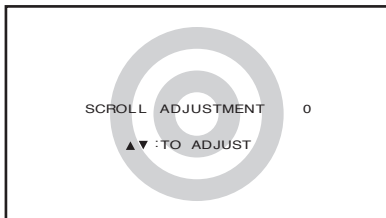 *Wide 2 : +20 to −10*
  Wide 3 : +20 to −10

NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

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

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Using the auto aspect feature

When receiving 480i signal, the TV will automatically change the picture size by reading aspect information (ID-1 data) from the input signal. If the signal does not include aspect information (ID-1 data), the picture size mode you set (pages 28–29) is selected.

To turn on the auto aspect:

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

```
THEATER
WOW
  SRS  3D              OFF
  FOCUS                OFF
  TruBass              OFF
P I CTURE  S I ZE           ▶
AUTO  ASPECT           OFF
P I CTURE  SCROLL           ▶
C I NEMA  MODE       V I DEO
```

2. Press ▲ or ▼ to highlight AUTO ASPECT, and then press ◀ or ▶ to select ON.

```
THEATER
WOW
  SRS  3D              OFF
  FOCUS                OFF
  TruBass              OFF
P I CTURE  S I ZE           ▶
AUTO  ASPECT           ON  ▶
P I CTURE  SCROLL
C I NEMA  MODE       V I DEO
```

Aspect information (ID-1 data)	Picture size to be selected
4:3 Normal	Natural
16:9 Full	Full
4:3 Letter box	Theater Wide 2
Not Defined	User-set mode

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 (auto).

To set the CINEMA MODE to FILM (auto):

1. Press MENU, and then press ◀ or ▶ until the THEATER menu appears.
2. Press ▲ or ▼ to highlight CINEMA MODE.
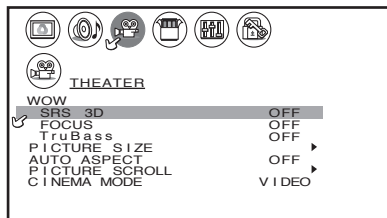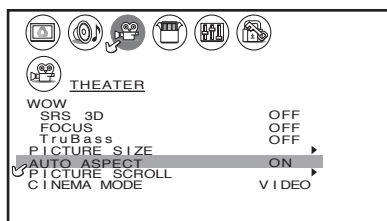3. Press ◀ or ▶ to select FILM (auto).
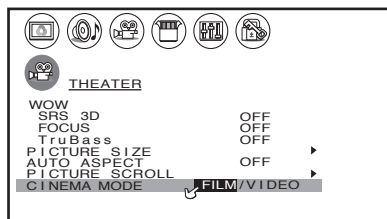
```
THEATER
WOW
  SRS  3D              OFF
  FOCUS                OFF
  TruBass              OFF
P I CTURE  S I ZE           ▶
AUTO  ASPECT           OFF
P I CTURE  SCROLL           ▶
C I NEMA  MODE    F I LM / V I DEO
```

To set the CINEMA MODE to VIDEO (off):

Press ◀ or ▶ to select VIDEO in step 3 above.

Note:

- *The auto aspect feature does not operate for the antenna (cable) and DVI input sources.*
- *The picture size selection is possible even when the auto aspect is active (ON). In this case, the picture size you selected is valid until the input source is changed or auto aspect is turned ON again.*
- *If the signal includes incorrect aspect information (ID-1 data), the picture will deteriorate and auto aspect may not operate correctly. In such a case, turn OFF the auto aspect.*

NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

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

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▲▼◀▶

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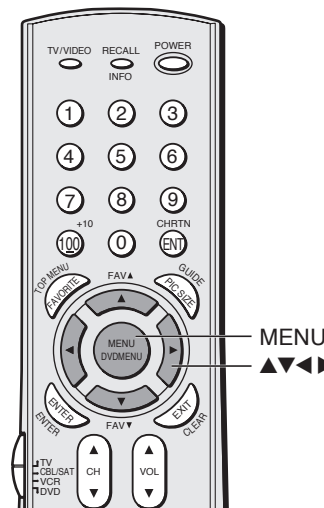
Using the POP double-window feature

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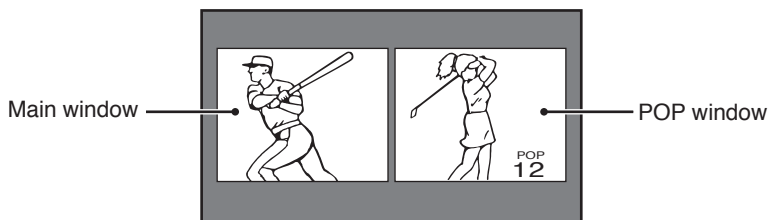
To display a TV broadcast in the POP window:

1. Press SPLIT to display the POP window.

Main window ——————→   ←—————— POP window

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

   If the V-CHIP feature is active and you try to watch a TV program that exceeds your set rating limits, the program will be blocked (see "Using the V-CHIP menu" on page 37).
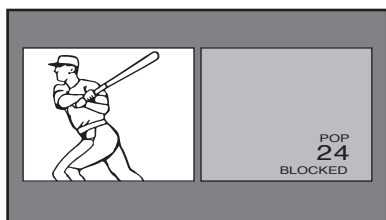
To display a picture from an external source in the POP window:

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 SPLIT to display the POP window.
4. Repeatedly press SOURCE to select the input source for the POP window (VIDEO 1, VIDEO 2, VIDEO 3, ColorStream HD1, or ColorStream HD2 only; you cannot select DVI in POP mode). The current source will display in purple.
5. You can play a tape as the POP picture, or select a channel for the POP window using the VCR's channel keys.
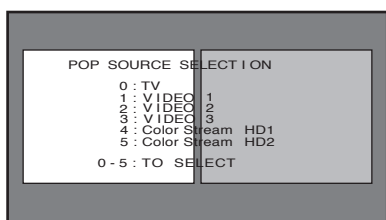
   While the above menu is on the screen, you can select the desired signal input source by pressing the corresponding number button (0-5).

To close the POP window:

   Press SPLIT again or EXIT.

Note:

- *The SPLIT buttons on the remote control operate the TV's POP features.*
- *You cannot access POP features when viewing DVI input.*
- *You cannot display the ANT-2 signal source in the POP window.*
- *You can choose to output the sound of either the main or POP program from the AUDIO OUT (see "Selecting the Audio OUT sound" on page 52).*
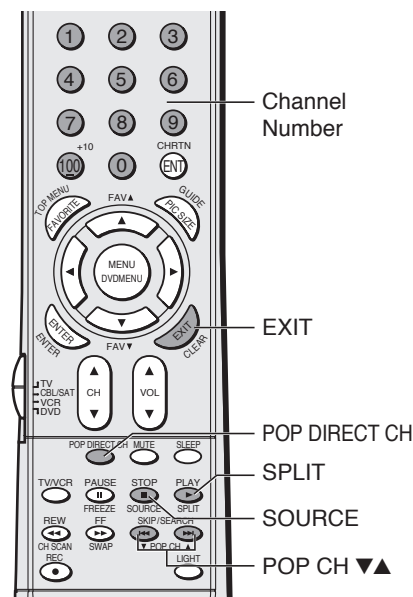
Channel Number

EXIT

POP DIRECT CH

SPLIT

SOURCE

POP CH ▼▲

NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

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

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Switching the main and POP pictures

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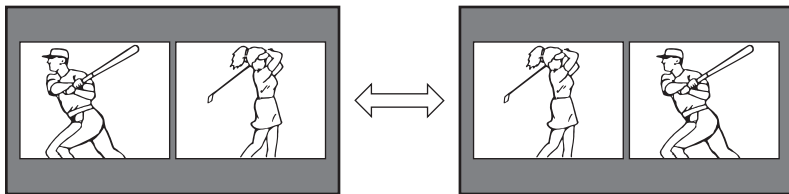
Freezing the POP picture

1. Press FREEZE while the POP is not on the screen.
   The POP window will appear with a still picture.

2. Press FREEZE again to renew the still picture.
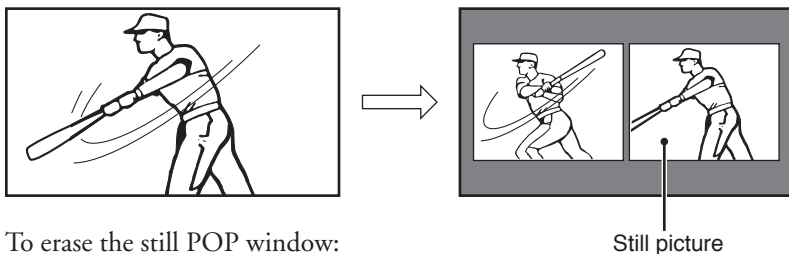
Still picture

To erase the still POP window:

Press EXIT.

Adjusting the size of the double-window

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

EXIT

FREEZE

SWAP
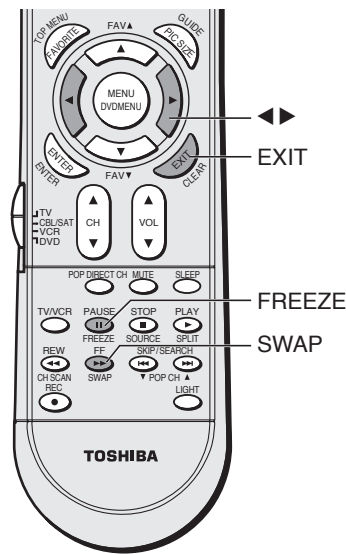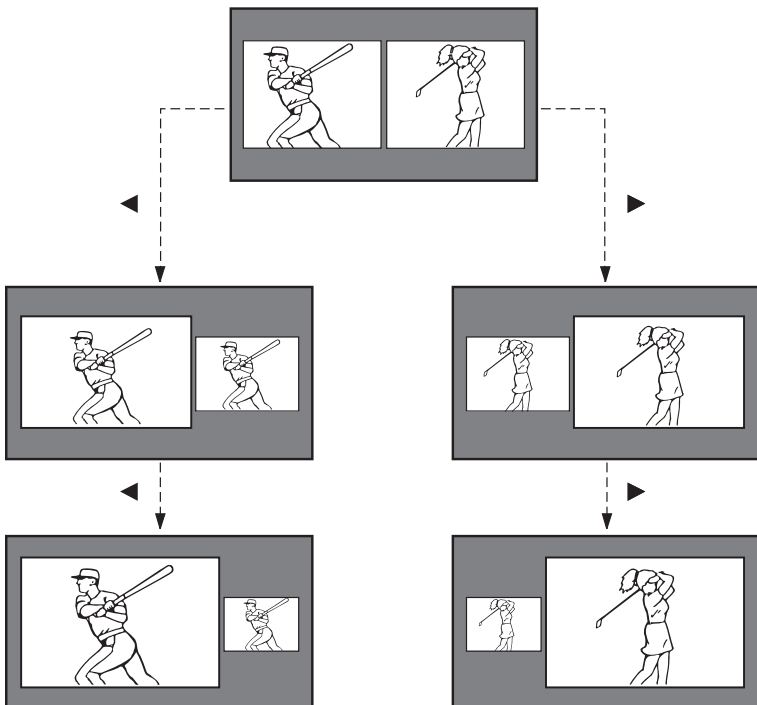
Note:

You can adjust the size of the double-window for 480i signals only. If you try to adjust the double-window size when viewing another signal, the message "Not available" will appear on the screen.

NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

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

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POP double-window aspect ratio

The double-window feature displays each picture according to its input signal with various aspect ratios as illustrated below:

480i	480i

480p/720p/1080i	480i

480i	480p/720p/1080i

480p/720p/1080i	480p/720p/1080i

Using the programmed channel search function

You can use the programmed channel search function to quickly scan your programmed channels (see "Programming channels into the channel memory" on page 22).

1. Press CH SCAN.
   The TV automatically enters POP mode, and begins a seven-picture scan of your programmed channels in the POP window.

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

Moving picture

▲▼◄ ►

ENTER

CH SCAN

TOSHIBA

NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

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

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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 25).

1. Press FAVORITE.
   The TV automatically enters POP mode, and begins a seven-picture scan of your favorite channels.
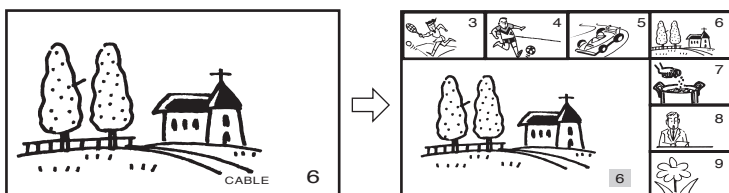
FAVORITE

▲▼◄►

ENTER

2. Press ▲▼◄► to select one of the seven pictures (becomes a moving picture). The main picture is always moving.

3. Press ENTER to display the channel you selected in step 2 as a normal picture.

Moving picture

Note:

- *This feature does not operate in DVI mode.*
- *The aspect ratio of all main and POP windows are 16:9.*

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

FAVORITE CH1 — FAVORITE CH2 — Off

About the auto favorite feature

If your TV is in the program lock mode, after 4 seconds the TV starts the auto favorite channel search function. See page 39 for details.

THIS PROGRAM
HAS BEEN BLOCKED!

TV–PG   L   V
EXCEEDS SET LIMITS

PUSH MUTE
TO ENTER PIN

CABLE   9

- Blocking Reset status:

NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

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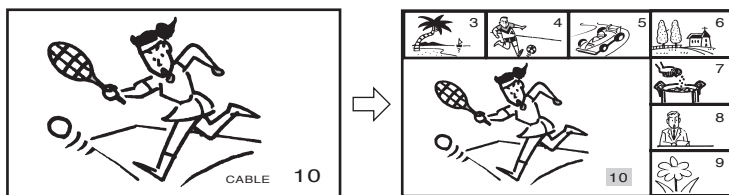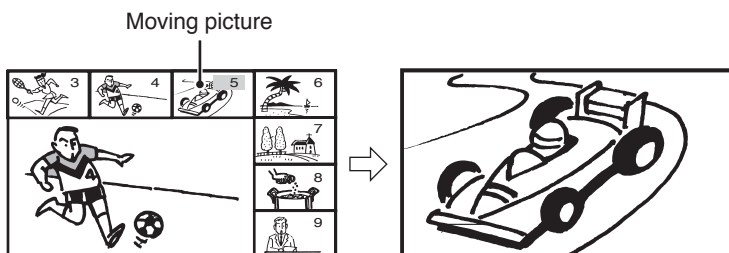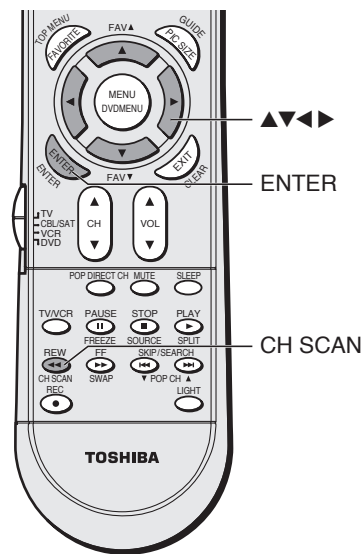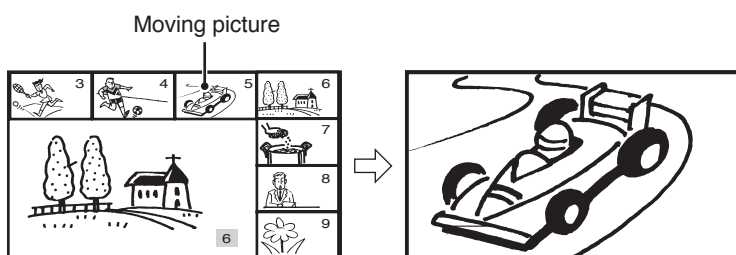
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Using the LOCKS menu

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

1. Press MENU, and then press ◄ or ► until the LOCKS menu appears.

```
LOCKS

V—CHIP
  ENABLE BLOCKING    OFF
  TV RATING              ▸
  MPAA RATING            ▸
  BLOCKING OPTION        ▸
CH LOCK                   ▸
VIDEO LOCK          OFF
GAME TIMER          OFF
FRONT PANEL LOCK    OFF
NEW PIN CODE
```
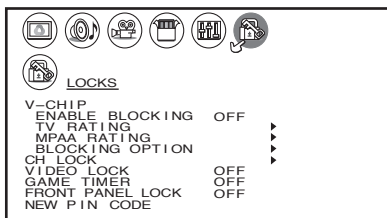
2. Press ▲ or ▼ to display the PIN code entering mode.

Set your 4-digit code by pressing the Number buttons (0–9), 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.

```
LOCKS

BLOCKING RESET
PIN CODE 1110
```

```
LOCKS

BLOCKING ACTIVE
PIN CODE 1234
```

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

If you cannot remember your PIN code

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

```
LOCKS

V—CHIP
  ENABLE BLOCKING   ON OFF
  TV RATING              ▸
  MPAA RATING            ▸
  BLOCKING OPTION        ▸
CH LOCK                   ▸
VIDEO LOCK          OFF
GAME TIMER          OFF
FRONT PANEL LOCK    OFF
NEW PIN CODE
```
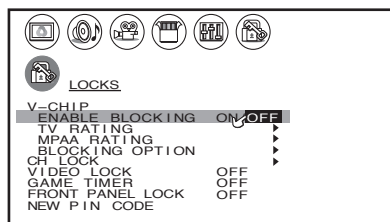
Continue to set each item following the steps on the next page.

RECALL

Number

MENU

▲▼◄►

ENTER

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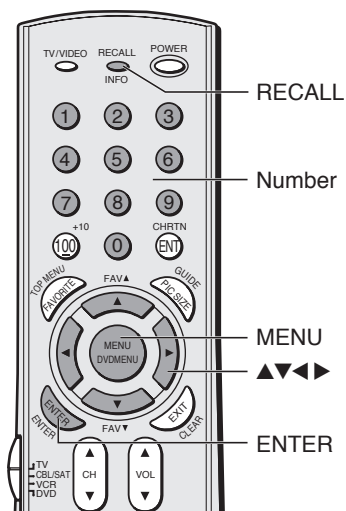
Using the V–CHIP menu

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

ENABLE BLOCKING

1. From the LOCKS menu, select ENABLE BLOCKING.

2. Press ◄ or ► to select ON or OFF.

   ON : To enable your setting (Lock)

   OFF: To release your setting (Unlock)

   Note: *The CH LOCK function is not affected 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 ▲ to select an item.

4. Press ► to lock (display "X").

   Press ◄ to unlock (display "✓").

5. Repeat steps 3 and 4 to set the next item.
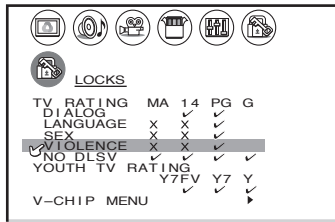
The TV age-based ratings and content themes you can lock are listed in the table below.

Ratings	Description and Content themes
MA	Mature Audience Only (This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.) **L) Crude or indecent language S) Explicit sexual activity V) Graphic violence**
14	Parents Strongly Cautioned (This program contains some material that many parents would find unsuitable for children under 14 years of age.) **D) Intensely suggestive dialog L) Strong, coarse language S) Intense sexual situations V) Intense violence**
PG	Parental 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 in which fantasy violence may be more intense or more combative than other programs in this category are designated Y7FV.)
Y	All Children (This program is designed to be appropriate for all children.)

Note:

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

LOCKS menu

To select each item:

Press ▼ or ▲ .

RECALL

▲▼◄►
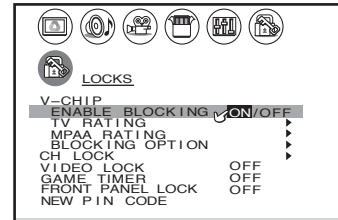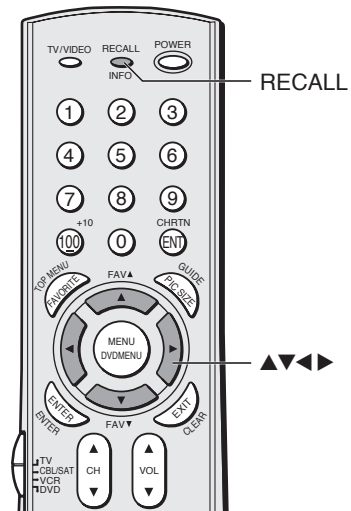
Press RECALL to display the rating of the TV program you are currently watching.
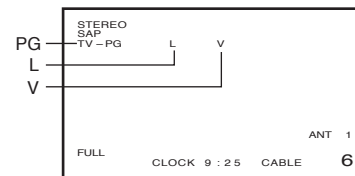
MPAA RATING (Independent rating system for movies)

1. From the LOCKS menu, select MPAA RATING.

2. Press ◄ or ► to display the MPAA RATING menu, then press ▼ or ▲ to highlight MPAA RATING.
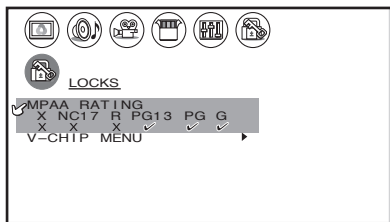
3. Press ► to lock ("X") or press ◄ to unlock ("✓").

The movie ratings you can lock are described as follows:

X : X-rated (For adults only)

NC17 : Not intended for anyone 17 and under

R : Restricted (Under 17 requires accompanying parent or adult guardian.)

PG13 : Parents Strongly Cautioned (Some material may be inappropriate for children under 13)

PG : Parental Guidance Suggested (Some material may not be suitable for children)

G : General Audience (Appropriate for all ages)

BLOCKING OPTION

1. From the LOCKS menu, select BLOCKING OPTION.

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.
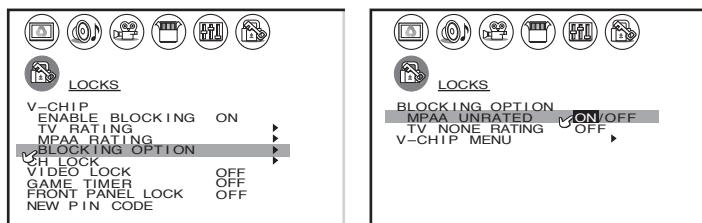
TV NONE RATING

Press ◄ or ► to select ON (Lock) or OFF (Unlock) for programs rated NONE in the TV PARENTAL GUIDELINES.
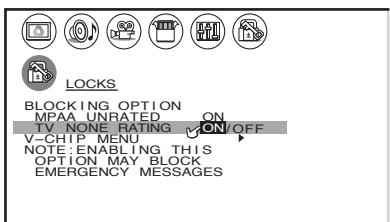
V-CHIP MENU:

Press ◄ or ► to return to the LOCKS menu.

LOCKS menu
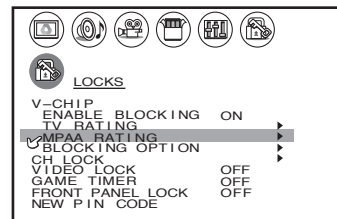
To select each item:

Press ▼ or ▲ .
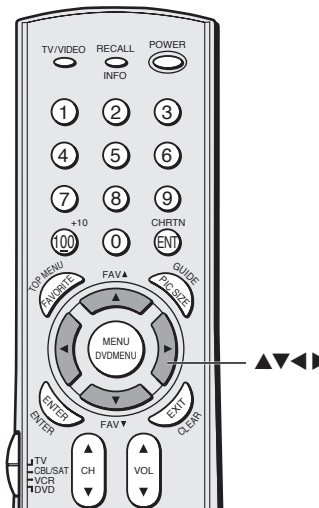
Caution:

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.

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Unlocking programs temporarily

If you try to watch a TV program that exceeds the rating limits you set, the TV enters program lock mode. After 4 seconds, the TV starts the auto favorite channel search function (see page 35). You can either unlock the program temporarily or select a non-locked program to watch.

After 4 seconds

```
THIS PROGRAM HAS BEEN  BLOCKED!
TV-PG  L   V
EXCEEDS  L IMITS

PUSH  MUTE  TO ENTER  PIN
                          CABLE    9
```

```
                        3        4        5        6
                                                   7
THIS PROGRAM
HAS BEEN BLOCKED!
TV-PG     L    V                                   8
EXCEEDS SET L IMITS

PUSH MUTE
TO ENTER PIN                                       9
                          CABLE    9               X
```
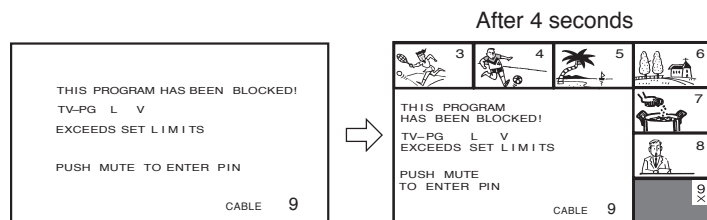
To temporarily unlock the program:

1. Press MUTE.
2. Press the Number buttons (0–9) to enter your 4-digit PIN code.

```
    BLOCKING  ACT I VE

    ENTER  P IN  CODE
    TO  TEMPORARI LY  UN–BLOCK

             ————

    0–9 : TO  SELECT    ENTER : TO  SET
```
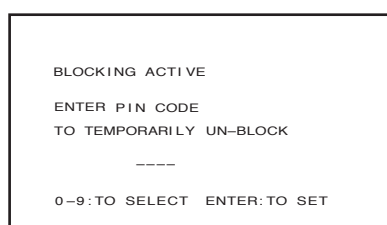
3. Press ENTER.

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

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

Locking channels

With the CH LOCK feature, you can lock specific channels. You will not be able to tune locked channels with 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–CH I P
  ENABLE  BLOCK ING  OFF
  TV  RAT ING                    ►
  MPAA RAT ING                   ►
  BLOCK ING  OPT ION             ►
CH LOCK          CH INPUT   12
V IDEO  LOCK                0   0   0
GAME  T IMER                0   0   0
FRONT  PANEL  LOCK          0   0   0
NEW  P IN  CODE            TV  CABLE
                CLEAR  ALL          ►
```

```
V–CH I P
  ENABLE  BLOCK ING  OFF
  TV  RAT ING                    ►
  MPAA  RAT ING                  ►
  BLOCK ING  OPT ION             ►
CH LOCK          CH INPUT   xxx
V IDEO  LOCK               12   0   0
GAME  T IMER                0   0   0
FRONT  PANEL  LOCK          0   0   0
NEW  P IN  CODE            TV  CABLE
                CLEAR  ALL          ►
```
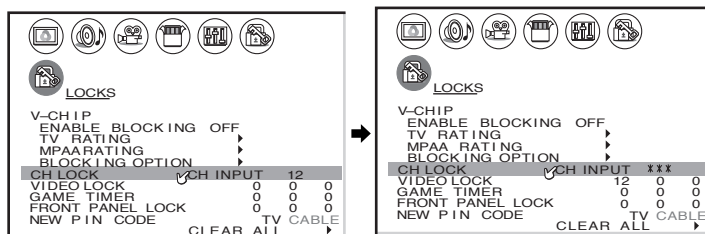
5. Repeat steps 3 and 4 for other channels.

Channel
Number

▲▼◄►

ENTER

MUTE

LOCKS menu

```
        LOCKS

V–CH I P
  ENABLE  BLOCK ING    ON
  TV  RAT ING                    ►
  MPAA  RAT ING                  ►
  BLOCK ING  OPT ION             ►
CH  LOCK                         ►
V IDEO  LOCK             OFF
GAME  T IMER             OFF
FRONT  PANEL  LOCK       OFF
NEW  P IN  CODE
```
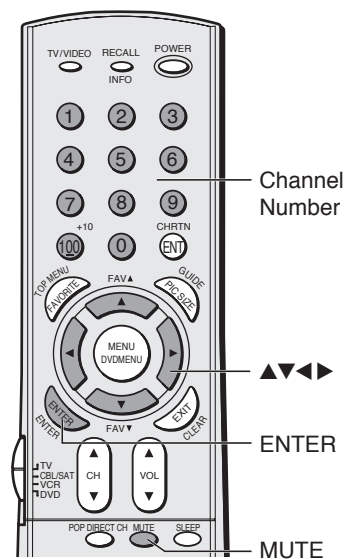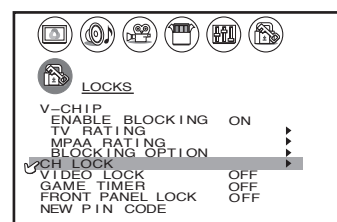
To select each item:

   Press ▼ or ▲ .

To unlock individual channels:

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

```
┌──────────────────────────────────────┐          ┌──────────────────────────────────────┐
│ [icons]                              │    ➡     │ [icons]                              │
│                                       │          │                                       │
│ [icon] LOCKS                          │          │ [icon] LOCKS                          │
│                                       │          │                                       │
│ V-CHIP                                │          │ V-CHIP                                │
│  ENABLE BLOCKING  ON    ▶             │          │  ENABLE BLOCKING  ON    ▶             │
│  TV RATING              ▶             │          │  TV RATING              ▶             │
│  MPAA RATING            ▶             │          │  MPAA RATING            ▶             │
│  BLOCKING OPTION        ▶             │          │  BLOCKING OPTION        ▶             │
│ CH LOCK          CH INPUT  ***        │          │ CH LOCK          CH INPUT  ***        │
│ VIDEO LOCK         12  18  26         │          │ VIDEO LOCK         12  18  33         │
│ GAME TIMER         33   0   0         │          │ GAME TIMER          0   0   0         │
│ FRONT PANEL LOCK    0   0   0         │          │ FRONT PANEL LOCK    0   0   0         │
│ NEW PIN CODE          TV CABLE        │          │ NEW PIN CODE          TV CABLE        │
│              CLEAR ALL       ▶        │          │              CLEAR ALL       ▶        │
└──────────────────────────────────────┘          └──────────────────────────────────────┘
```

4. Repeat step 3 for other channels.

To unlock all locked channels at once:

Press ▲ or ▼ to highlight CLEAR ALL, and then press ◀ or ▶.

```
┌──────────────────────────────────────┐
│ [icons]                              │
│                                       │
│ [icon] LOCKS                          │
│                                       │
│ V-CHIP                                │
│  ENABLE BLOCKING  ON    ▶             │
│  TV RATING              ▶             │
│  MPAA RATING            ▶             │
│  BLOCKING OPTION        ▶             │
│ CH LOCK          CH INPUT  ***        │
│ VIDEO LOCK          0   0   0         │
│ GAME TIMER          0   0   0         │
│ FRONT PANEL LOCK    0   0   0         │
│ NEW PIN CODE          TV CABLE        │
│        ✓CLEAR ALL       ▶             │
└──────────────────────────────────────┘
```

Locking video inputs

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

You will not be able to select the input sources with the TV/VIDEO button or Channel buttons unless you clear the setting.
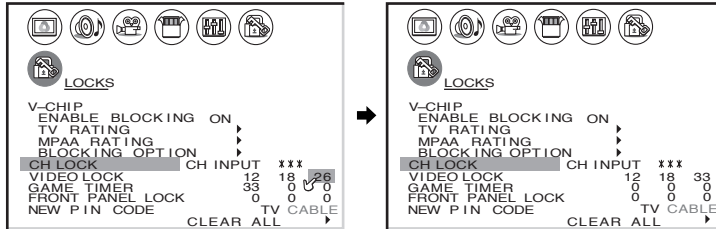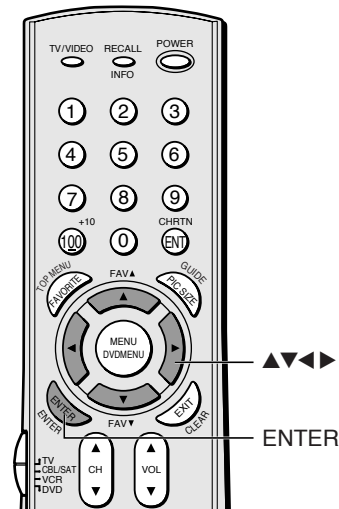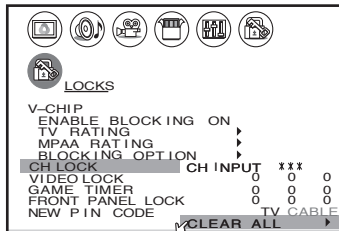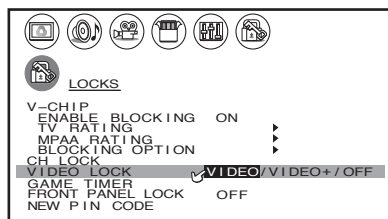
To set up the video lock:

1. From the LOCKS menu, select VIDEO LOCK.

2. Press ◀ or ▶ to highlight the level of video locking you want (Video, Video+, or Off), as follows:

VIDEO : Locks VIDEO 1, VIDEO 2, VIDEO 3, ColorStream HD1, HD2, and DVI/HDCP.

VIDEO+ : Locks VIDEO 1, VIDEO 2, VIDEO 3, ColorStream, HD1/HD2, DVI/HDCP, and channels 3 and 4. This option should be used if you use the antenna terminal to play a video tape.

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

OFF : Unlocks all video input sources.

```
┌──────────────────────────────────────┐
│ [icons]                              │
│                                       │
│ [icon] LOCKS                          │
│                                       │
│ V-CHIP                                │
│  ENABLE BLOCKING  ON    ▶             │
│  TV RATING              ▶             │
│  MPAA RATING            ▶             │
│  BLOCKING OPTION        ▶             │
│ CH LOCK                               │
│ VIDEO LOCK     ✓VIDEO / VIDEO+ / OFF  │
│ GAME TIMER                            │
│ FRONT PANEL LOCK    OFF               │
│ NEW PIN CODE                          │
└──────────────────────────────────────┘
```

<div style="sidebar">
Using the TV's Features
</div>

▲▼◀▶

ENTER

40

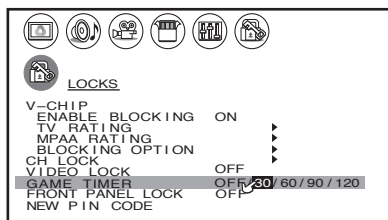The page content with various visual elements.

Using the game timer

You can use the game timer to set a time limit for playing a video game (30-120 minutes). When the game timer is activated, the TV enters VIDEO LOCK mode and locks out the input source for the video game device.

To set the game timer:

1. From the LOCKS menu, select GAME TIMER.

2. Press ◀ or ▶ to select the length of time until the video mode is blocked from among 30, 60, 90 and 120 minutes. When the number is highlighted, the timer will start countdown.

```
LOCKS

V–CHIP
  ENABLE BLOCKING    ON          ▶
  TV RATING                      ▶
  MPAA RATING                    ▶
  BLOCKING OPTION                ▶
CH LOCK                          ▶
VIDEO LOCK              OFF
GAME TIMER             OFF/30/60/90/120
FRONT PANEL LOCK       OFF
NEW PIN CODE
```
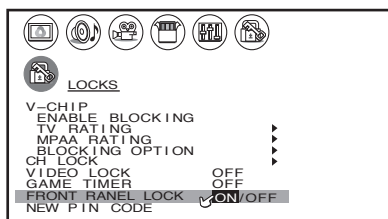
To cancel the timer:

Select OFF in step 2 above.

Using the front panel lock feature

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

To lock the front panel:

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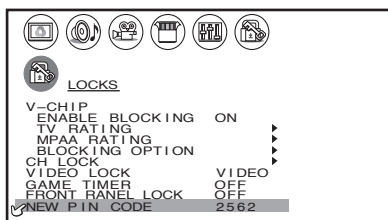
2. Press ◀ or ▶ to highlight ON.

```
LOCKS

V–CHIP
  ENABLE BLOCKING
  TV RATING                      ▶
  MPAA RATING                    ▶
  BLOCKING OPTION                ▶
CH LOCK                          ▶
VIDEO LOCK              OFF
GAME TIMER              OFF
FRONT RANEL LOCK        ON/OFF
NEW PIN CODE
```

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

To unlock the front panel:

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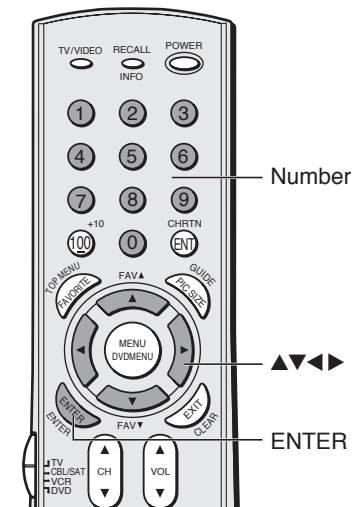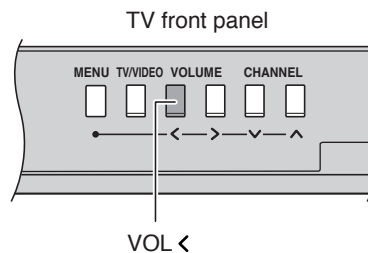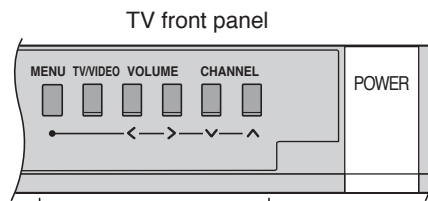
Changing the PIN code

1. From the LOCKS menu, select NEW PIN CODE.

2. Press the Number buttons (0–9) to enter a 4-digit code. The numbers you enter will replace the dashes in the display.

```
LOCKS

V–CHIP
  ENABLE BLOCKING    ON          ▶
  TV RATING                      ▶
  MPAA RATING                    ▶
  BLOCKING OPTION                ▶
CH LOCK                VIDEO
VIDEO LOCK             VIDEO
GAME TIMER             OFF
FRONT RANEL LOCK       OFF
NEW PIN CODE           2562
```

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

TV front panel

MENU TV/VIDEO VOLUME CHANNEL   POWER

Buttons to be locked

TV front panel

MENU TV/VIDEO VOLUME CHANNEL

VOL ‹

Number

▲▼◀▶

ENTER

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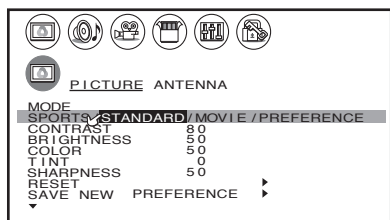Index

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Adjusting the picture

Selecting the picture mode

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

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

*(see "Saving your new preferences" on page 43.)
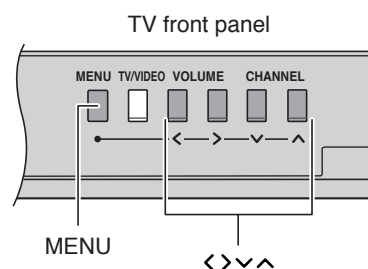
To select the picture mode:

1. Press MENU, and then press ◀ (‹) or ▶ (›) until the PICTURE menu appears.
2. Press ▼ (∨) or ▲ (∧) to select MODE.
3. Press ◀ (‹) or ▶ (›) to highlight the mode you prefer.

PICTURE ANTENNA

MODE
SPORTS / STANDARD / MOVIE / PREFERENCE
CONTRAST   80
BRIGHTNESS   50
COLOR   50
TINT   0
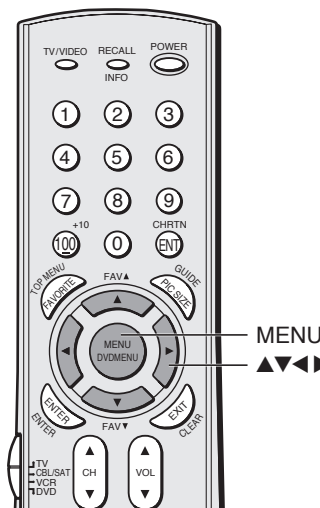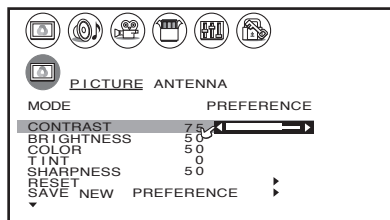SHARPNESS   50
RESET
SAVE NEW   PREFERENCE   ▶

Adjusting the picture quality

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

Selection	◀ Pressing ▶	
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 ▲ (∧) until the item you want to adjust is highlighted.
3. Press ◀ (‹) or ▶ (›) to adjust the level.

PICTURE ANTENNA
MODE   PREFERENCE
CONTRAST   75
BRIGHTNESS   50
COLOR   50
TINT   0
SHARPNESS   50
RESET
SAVE NEW   PREFERENCE   ▶

The PICTURE qualities you adjusted can be saved in the TV's memory with the SAVE NEW PREFERENCE feature (see page 43). You can keep these settings or choose factory set options, as described under "Selecting the picture mode" above.

TV front panel

MENU TV/VIDEO VOLUME CHANNEL

< — > — ∨ — ∧

MENU

‹ › ∨ ∧

MENU
▲▼◀▶

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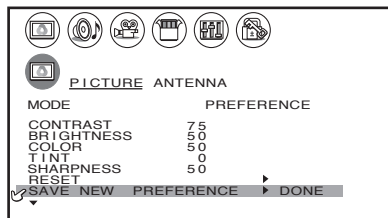Using the TV's
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Saving your new preferences

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

To save your new preferences:

1. Press MENU, and then press ◄ or ► until the PICTURE menu appears.
2. Press ▲ or ▼ to highlight SAVE NEW PREFERENCE.
3. Press ◄ or ►. When complete, the menu displays "DONE".

```
      PICTURE  ANTENNA

MODE              PREFERENCE
CONTRAST          7 5
BRIGHTNESS        5 0
COLOR             5 0
TINT                0
SHARPNESS         5 0
RESET                       ▶
SAVE  NEW  PREFERENCE  ▶  DONE
```
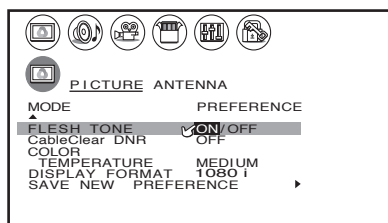
The mode automatically change to PREFERENCE (see "Selecting the picture mode" on page 42).

Using the flesh tone feature

This feature displays natural flesh tones by correcting the tint.

To turn on the flesh tone feature:

1. Press MENU, and then press ◄ or ► until the PICTURE menu appears.
2. Press ▲ or ▼ to highlight FLESH TONE.
3. Press ◄ or ► to highlight ON.

```
      PICTURE  ANTENNA

MODE              PREFERENCE
FLESH  TONE       ON / OFF
CableClear  DNR   OFF
COLOR
  TEMPERATURE     MEDIUM
DISPLAY  FORMAT   1080 i
SAVE  NEW  PREFERENCE       ▶
```
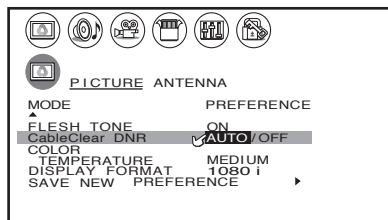
Using the CableClear™ DNR feature

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

To turn on CableClear™ DNR:

1. Press MENU, and then press ◄ or ► until the PICTURE menu appears.
2. Press ▲ or ▼ to highlight CableClear DNR.
3. Press ◄ or ► to highlight AUTO.

```
      PICTURE  ANTENNA

MODE              PREFERENCE
FLESH  TONE       ON
CableClear  DNR   AUTO / OFF
COLOR
  TEMPERATURE     MEDIUM
DISPLAY  FORMAT   1080 i
SAVE  NEW  PREFERENCE       ▶
```

To turn off CableClear DNR:

Highlight OFF in step 3 above.

MENU
▲▼◄►

Note:
- *CableClear DNR is not available in DVI mode (fixed to OFF).*
- *The "CableClear DNR" menu listing will change to "DNR" in ColorStream mode.*

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Selecting the color temperature

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

To select the color temperature:
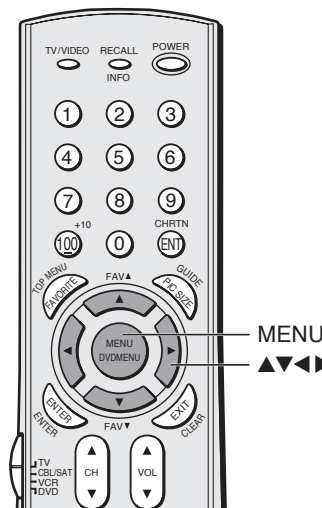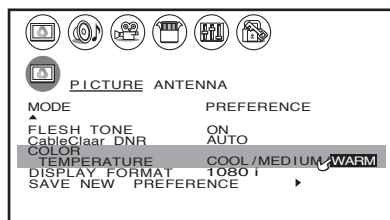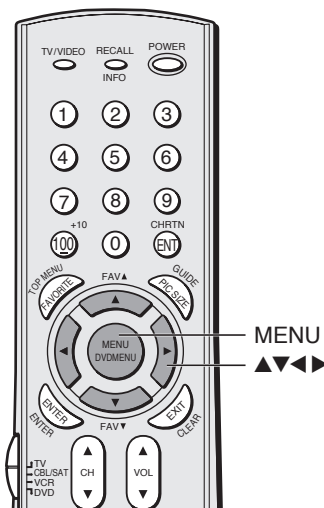
1. Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
2. Press ▲ or ▼ to highlight COLOR TEMPERATURE.
3. Press ◀ or ▶ to highlight the mode you prefer.

Mode	Picture Quality
cool	blueish
medium	neutral
warm	reddish

```
PICTURE  ANTENNA
MODE                 PREFERENCE
FLESH TONE           ON
CableClaar DNR       AUTO
COLOR
 TEMPERATURE    COOL /MEDIUM /WARM
DISPLAY FORMAT       1080 i
SAVE NEW   PREFERENCE        ▶
```
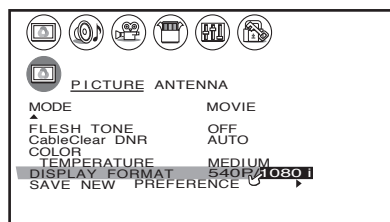
Selecting the display format (for 480p signals only)

This feature converts an input signal 480p to 540p or 1080i.

To select the display format:

1. Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
2. Press ▲ or ▼ to highlight DISPLAY FORMAT.
3. Press ◀ or ▶ to select 540p or 1080i.

```
PICTURE  ANTENNA
MODE                 MOVIE
FLESH TONE           OFF
CableClear DNR       AUTO
COLOR
 TEMPERATURE    MEDIUM
DISPLAY FORMAT  540P /1080 i
SAVE NEW   PREFERENCE        ▶
```

MENU

▲▼◀ ▶

Resetting your picture adjustments

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

Contrast .... max (100)	Color temperature .... cool
Brightness .... center (50)	CableClear DNR .... auto
Color .... center (50)	Mode .... sports
Tint .... center (0)	
Sharpness .... center (50)	

To reset your picture 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."

```
PICTURE  ANTENNA
MODE                 SPORTS

CONTRAST        1 0 0
BRIGHTNESS       5 0
COLOR            5 0
TINT              0
SHARPNESS        5 0
RESET                   ▶  DONE
SAVE NEW   PREFERENCE   ▶
```

Using the TV's Features

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Connecting your TV

Using the Remote Control
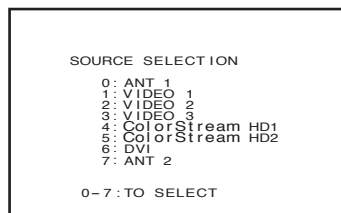
Setting up your TV

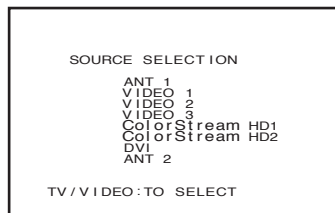Using the TV's Features

Appendix

Index
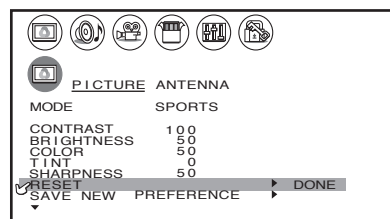
Selecting the video input source

Press TV/VIDEO on the remote control or TV front panel to view a signal from another device connected to your TV, such as a VCR or video disc player (see illustrations below). You can select ANT 1, VIDEO 1, VIDEO 2, VIDEO 3, ColorStream HD1, ColorStream HD2, DVI, or ANT 2 depending on which input jacks you used for connecting your devices (see "Connecting your TV" on page 7).

```
    SOURCE SELECTION
      0: ANT 1
      1: VIDEO 1
      2: VIDEO 2
      3: VIDEO 3
      4: ColorStream HD1
      5: ColorStream HD2
      6: DVI
      7: ANT 2

      0-7: TO SELECT
```

```
    SOURCE SELECTION
      ANT 1
      VIDEO 1
      VIDEO 2
      VIDEO 3
      ColorStream HD1
      ColorStream HD2
      DVI
      ANT 2

    TV/VIDEO: TO SELECT
```

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

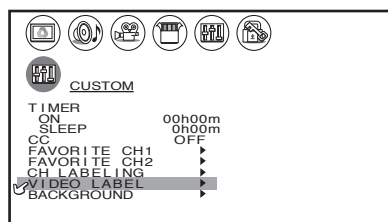*Pressing TV/VIDEO on the TV changes the current signal source*

Labeling the video input sources

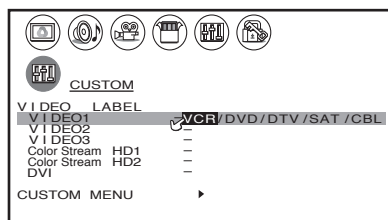The VIDEO LABEL feature allows you to label each input source for your TV from the following preset list of labels:

–	:	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.

```
    CUSTOM
    TIMER
    ON               00h00m
    SLEEP            0h00m
    CC                OFF
    FAVORITE CH1       ►
    FAVORITE CH2       ►
    CH LABELING        ►
    VIDEO LABEL        ►
    BACKGROUND         ►
```

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.

```
    CUSTOM
    VIDEO  LABEL
    VIDEO1       VCR /DVD/DTV /SAT /CBL
    VIDEO2            –
    VIDEO3            –
    Color Stream HD1  –
    Color Stream HD2  –
    DVI               –
    CUSTOM MENU        ►
```

6. Finish labeling the other video sources as desired. To return to the previous menu, press ▲ or ▼ to highlight CUSTOM MENU, and then press ◄ or ►.

7. To exit the menu, press EXIT.

Note:
• *When ColorStream HD 1 or HD 2 is selected, the VIDEO OUT jack does not output a signal. To receive a video OUT signal, use a video or S-video IN connection instead of the ColorStream connection.*

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.

TV front panel

```
MENU TV/VIDEO VOLUME  CHANNEL
 □    □    □    □  □
      •  ─ < — > — ∨ — ∧
```

TV/VIDEO

TV/VIDEO

Number

MENU

▲▼◄►

EXIT

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).
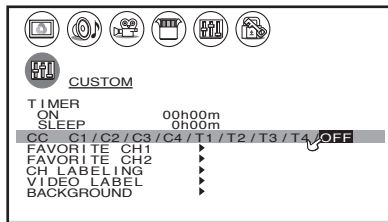
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Using the closed caption feature

The closed caption feature has two options:

- Captions—An on-screen display of the dialogue, narration, and sound effects of TV programs and videos that are closed captioned (usually labeled as "CC").
- Text—An on-screen display of information not related to the current program, such as weather or stock data (when provided by individual stations).

To view captions or text:

1. Tune the TV to the desired program.
2. Press MENU, and then press ◄ or ► to display CUSTOM menu.
3. Press ▲ or ▼ to highlight CC.


```
                    CUSTOM
TIMER
   ON              00h00m
   SLEEP           0h00m
CC   C1 / C2 / C3 / C4 / T1 / T2 / T3 / T4 / OFF
FAVORITE  CH1        ▶
FAVORITE  CH2        ▶
CH LABELING          ▶
VIDEO LABEL          ▶
BACKGROUND           ▶
```

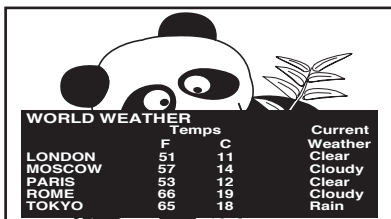4. Press ◄ or ► to highlight the desired closed caption mode, as follows:

- To view captions, highlight C1, C2, C3, or C4 (C1 displays translation in the primary language in your area).

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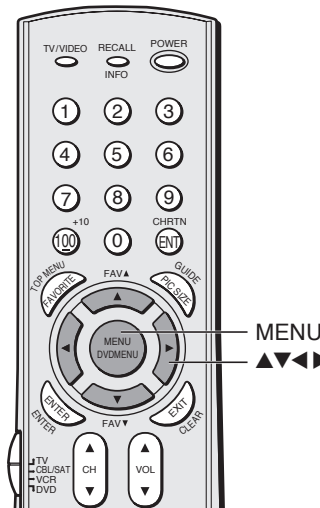

Giant pandas eat leaves.

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

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

WORLD WEATHER			
	Temps		**Current**
	F	**C**	**Weather**
LONDON	51	11	Clear
MOSCOW	57	14	Cloudy
PARIS	53	12	Clear
ROME	66	19	Cloudy
TOKYO	65	18	Rain

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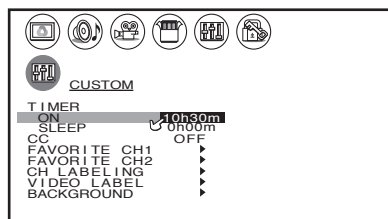
Highlight OFF in step 4.

MENU

▲▼◄►

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*

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Setting the ON timer

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

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

2. Press ▲ or ▼ to highlight ON.

3. After the number position starts to blink, press the Number buttons (0–9) to enter the length of time until the TV turns on automatically.
   You can set the ON timer in 10 minute increments, to a maximum of 12 hours.

4. Press ENTER to start the timer.

```
CUSTOM

TIMER
  ON              10h30m
  SLEEP            0h00m
CC               OFF
FAVORITE CH1        ▶
FAVORITE CH2        ▶
CH LABELING         ▶
VIDEO LABEL         ▶
BACKGROUND          ▶
```

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

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.

```
TIMER
0h00m
```
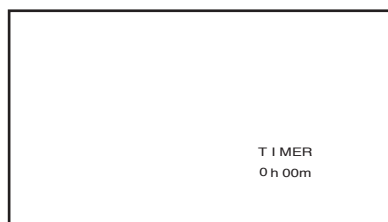
Every time you press the button, the time will increase in 10-minute increments, to a maximum of 3 hours.
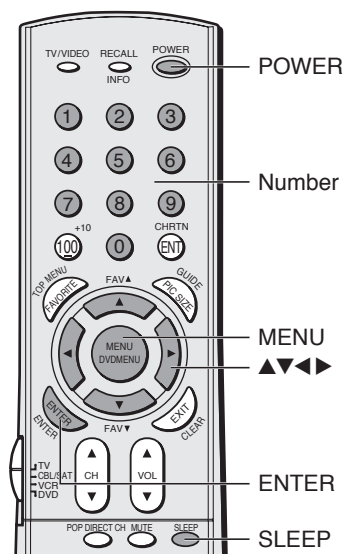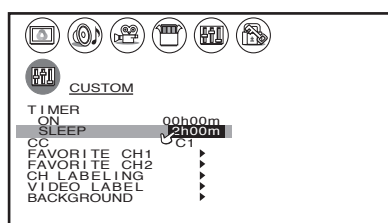
0h00m → 0h10m → 0h20m – – – – → 2h50m → 3h00m → 0h00m

To cancel the sleep timer:
   Press SLEEP until it is set to 0h00m.

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

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

2. Press ▲ or ▼ to highlight SLEEP.

3. After the number position starts to blink, press the Number buttons (0–9) to enter the length of time until the TV turns off automatically.

4. Press ENTER to start the timer.

```
CUSTOM

TIMER
  ON              00h00m
  SLEEP            2h00m
CC               C1
FAVORITE CH1        ▶
FAVORITE CH2        ▶
CH LABELING         ▶
VIDEO LABEL         ▶
BACKGROUND          ▶
```

POWER

Number
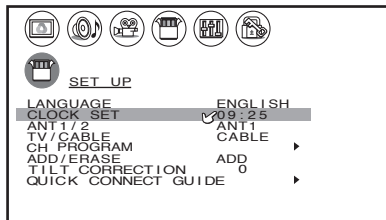
MENU
▲▼◀▶

ENTER

SLEEP

Note :

When an instant power failure occurs, the timer setting may be cleared.

To display the amount of time left until the TV turns on or off automatically, press RECALL.

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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 24-hour cycle only.
4. Press ENTER to start the clock.

```
┌─────────────────────────────────────────┐
│ ▣  ◉  ▦  ▦  ▦  ▦                          │
│                                          │
│ ▦   SET UP                               │
│                                          │
│ LANGUAGE             ENGLISH             │
│ CLOCK SET          ✓09:25                │
│ ANT1/2              ANT1                 │
│ TV/CABLE            CABLE                │
│ CH PROGRAM                      ►        │
│ ADD/ERASE           ADD                  │
│ TILT CORRECTION     0                    │
│ QUICK CONNECT GUIDE             ►        │
└─────────────────────────────────────────┘
```
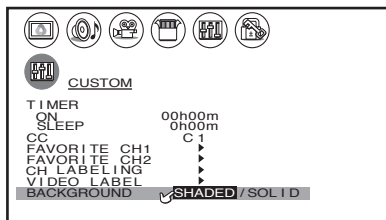
To display the time on-screen:

Press RECALL.

Selecting the background of the menu display

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

To select the menu 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.

```
┌─────────────────────────────────────────┐
│ ▣  ◉  ▦  ▦  ▦  ▦                          │
│                                          │
│ ▦   CUSTOM                               │
│                                          │
│ TIMER                                    │
│   ON               00h00m                │
│   SLEEP            0h00m                  │
│ CC                 C1                     │
│ FAVORITE CH1                    ►        │
│ FAVORITE CH2                    ►        │
│ CH LABELING                     ►        │
│ VIDEO LABEL                     ►        │
│ BACKGROUND       ✓SHADED/SOLID           │
└─────────────────────────────────────────┘
```

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

RECALL

Number

MENU
▲▼◄►

ENTER

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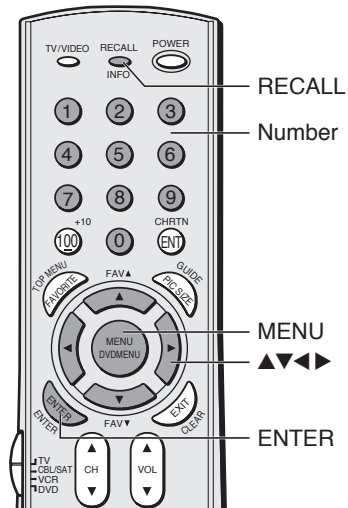
Adjusting the sound

Muting the sound

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

$$\rightarrow \text{Normal} \rightarrow \text{1/2 MUTE} \rightarrow \text{MUTE} \rightarrow$$

When you select "MUTE" mode, the closed caption feature is automatically activated (if the closed caption mode is set to OFF). To deactivate this feature, deactivate MUTE. See "Using the closed caption feature" on page 46 for more information.

Selecting stereo/SAP broadcasts

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

When the TV receives a stereo or SAP broadcast, the word STEREO or SAP appears on-screen every time the TV is turned on, the channel is changed, or the RECALL button is pressed. The word "STEREO" or "SAP" displays in yellow in the menu when the TV receives the signal.

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 ▲ (ᴧ) or ▼ (ᴠ) to highlight MTS.
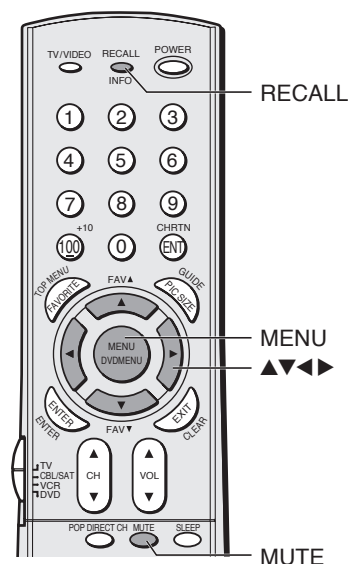3. Press ◀ (‹) or ▶ (›) to highlight STEREO.
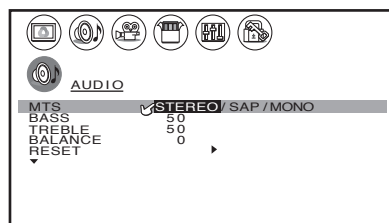
You can leave your TV in STEREO mode because it will automatically output the type of sound being broadcast (stereo or monaural).
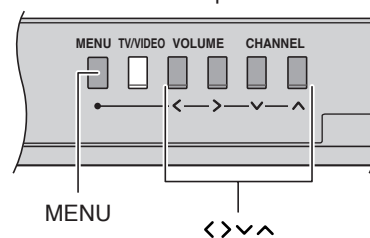
If the stereo sound is noisy, select MONO to reduce the noise.

To listen to SAP (if available):

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

AUDIO

MTS	STEREO / SAP / MONO
BASS	50
TREBLE	50
BALANCE	0
RESET	▶

RECALL

MENU
▲▼◀▶

MUTE

TV front panel

MENU   TV/VIDEO   VOLUME   CHANNEL

MENU

‹ › ᴠ ᴧ

Note :

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

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

If you have SAP on and the station you are watching is not broadcasting a second audio program, the station's normal audio will be output.
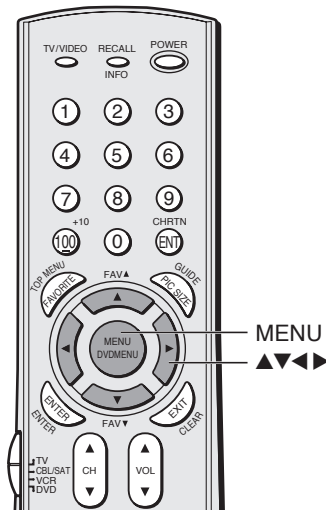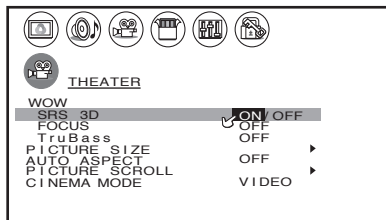
Occasionally no sound is output in SAP mode. If this happens, set the MTS feature to STEREO mode.

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Using the WOW™ surround sound feature

WOW is a special combination of SRS Labs audio technologies that creates a thrilling surround sound experience with deep rich bass from stereo sound sources. Your TV's audio will sound fuller, richer, and wider.

To adjust the WOW 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, then press ◄ or ► to adjust the item.

   • SRS 3D — To turn on or off the surround sound effect.

   • FOCUS — To turn on or off the vocal enphasis effect.

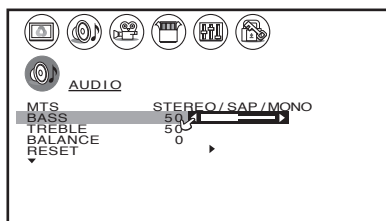   • TruBass — To select your desired bass expansion level (HIGH, LOW or OFF).

MENU
▲▼◄►

```
        THEATER
WOW
SRS  3D              ON / OFF
FOCUS                OFF
TruBass              OFF
PICTURE  SIZE                    ►
AUTO  ASPECT         OFF
PICTURE  SCROLL                  ►
CINEMA  MODE         VIDEO
```

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.

```
        AUDIO
MTS              STEREO / SAP / MONO
BASS             50
TREBLE           50
BALANCE          0
RESET                    ►
```

3. Press ◄ or ► to adjust the level.

   • ◄ makes the sound quality weaker or increases the balance in the leftt channel, depending on the item selected.

   • ► makes the sound quality stronger or increases the balance in the right channel, depending on the item selected.

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## 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."

```
AUDIO
MTS            STEREO
BASS            50
TREBLE          50
BALANCE          0
RESET          ► DONE
```
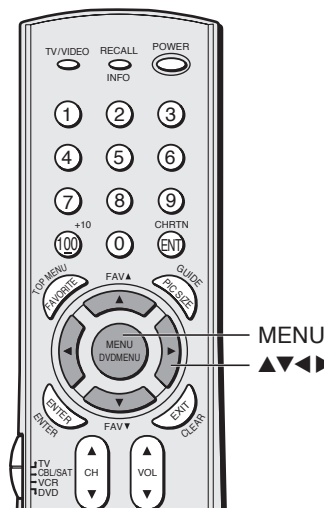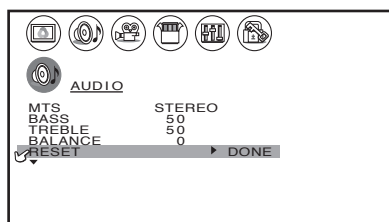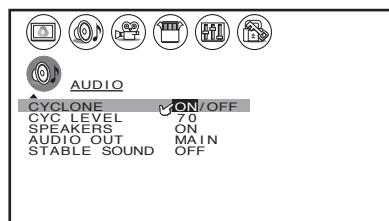
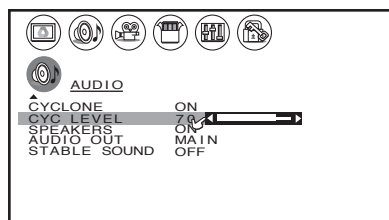## Using the CYCLONE® sub-woofer system

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 ▲ or ▼ to highlight CYCLONE.
3. Press ◄ or ► to highlight ON.

```
AUDIO
CYCLONE         ON/OFF
CYC LEVEL        70
SPEAKERS         ON
AUDIO OUT       MAIN
STABLE SOUND    OFF
```

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.

```
AUDIO
CYCLONE         ON
CYC LEVEL        70
SPEAKERS         ON
AUDIO OUT       MAIN
STABLE SOUND    OFF
```

To turn off the CYCLONE® sub-woofer system:
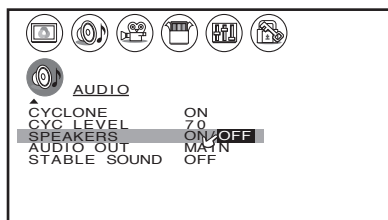
Highlight OFF in step 3 above.

MENU

▲▼◄►

Note:

While the CYCLONE is set to OFF, if the CYCLONE level is adjusted, the CYCLONE is automatically set to ON.

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

```
┌─────────────────────────────────────┐
│  ▣  ◎  🎥  📺  🎚  🔕              │
│                                      │
│  ◎  AUDIO                           │
│  ▲                                   │
│  CYCLONE        ON                   │
│  CYC LEVEL      70                   │
│  SPEAKERS       ON/OFF               │
│  AUDIO OUT      MAIN                 │
│  STABLE SOUND   OFF                  │
│                                      │
└─────────────────────────────────────┘
```

To turn on the built-in speakers:

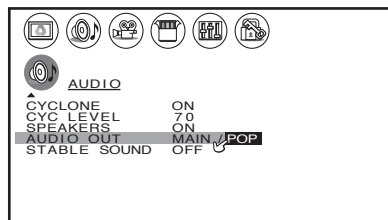Highlight ON in step 3 above.

Selecting the AUDIO OUT sound

This feature allows you to select the sound source (MAIN or POP) that is output from the AUDIO OUT jacks (see "Connecting two VCRs" on page 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.
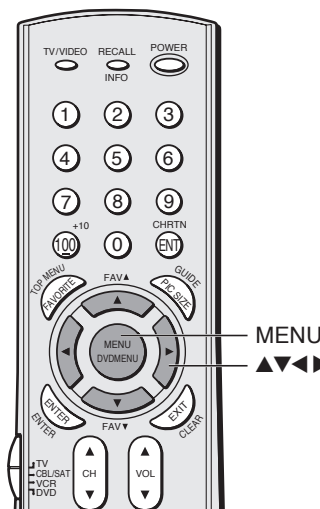
To select the AUDIO OUT sound:

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.

```
┌─────────────────────────────────────┐
│  ▣  ◎  🎥  📺  🎚  🔕              │
│                                      │
│  ◎  AUDIO                           │
│                                      │
│  CYCLONE        ON                   │
│  CYC LEVEL      70                   │
│  SPEAKERS       ON                   │
│  AUDIO OUT      MAIN/POP             │
│  STABLE SOUND   OFF                  │
│                                      │
└─────────────────────────────────────┘
```

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

Note:
Make sure the volume control of your audio amplifier is set to a moderate listening level.
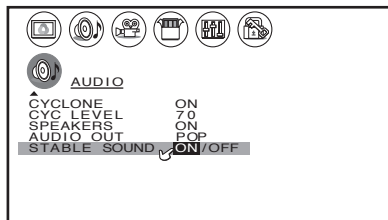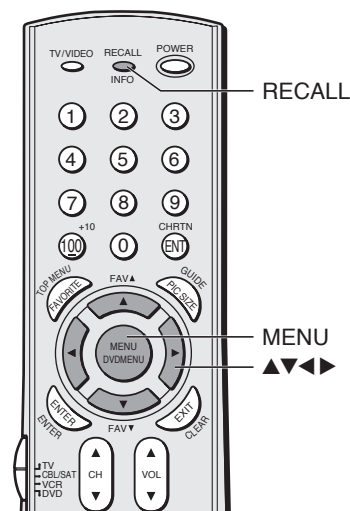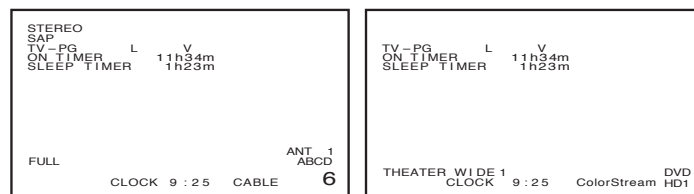
MENU
▲▼◀▶

Note:
When the POP window is not on the screen, the sound of the main program is output through the AUDIO OUT jacks, even if POP is selected in the AUDIO OUT menu.

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Using the StableSound® feature

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

To turn on the StableSound® feature:

1. Press MENU, and then press ◄ or ► until the AUDIO menu appears.
2. Press ▲ or ▼ to highlight STABLE SOUND.
3. Press ◄ or ► to select ON.

```
         AUDIO
CYCLONE        ON
CYC LEVEL      70
SPEAKERS       ON
AUDIO OUT      POP
STABLE SOUND   ON/OFF
```

RECALL

MENU
▲▼◄►

To turn off the StableSound feature:

Highlight OFF in step 3 above.

Displaying on-screen information

Press RECALL to display the following information on-screen:

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

```
STEREO
SAP
TV-PG     L     V
ON TIMER        11h34m
SLEEP TIMER     1h23m



                      ANT  1
FULL                  ABCD
        CLOCK 9:25  CABLE   6
```

```
TV-PG     L     V
ON TIMER        11h34m
SLEEP TIMER     1h23m




THEATER WIDE 1              DVD
        CLOCK 9:25  ColorStream HD1
```

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Viewing the demo mode

The demo mode automatically demonstrates several of your TV's features.

To start the demo:

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

To stop the demo:

Press RECALL, EXIT, or POWER.

Understanding the auto power off feature

The TV will automatically turn itself off after approximately 15 minutes if it is tuned to a vacant channel or a station that completes its broadcast for the day. This feature does not work in VIDEO mode.

Understanding the last mode memory feature

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

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

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Specifications

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 (J 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
  147 W (average)

Audio Power
  10 W + 10 W + 13 W sub-woofer

Speaker Type
  Two 6 × 12 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 k ohm)
  ColorStream® (component video) INPUT
    Y : 1V(p-p), 75 ohm
    PR: 0.7 V(p-p), 75 ohm
    PB: 0.7 V(p-p), 75 ohm
    AUDIO: 150 mV(rms), 47 k ohm
    Suggested scan rates: 1080i, 480p, 480i, 720p
  VIDEO/AUDIO OUTPUT
    VIDEO: 1 V(p-p), 75 ohm, negative sync.
    AUDIO: 150 mV(rms) (30% modulation equivalent,
            4.7 k ohm)
  VARIABLE AUDIO OUTPUT
    0–300 mV(rms) (30% modulation equivalent, 4.7 k ohm)
  AUDIO CENTER CHANNEL INPUT
    300 mV(rms) (30% modulation equivalent, 10 k ohm)
  DVI/HDCP INPUT
    HDCP compliant
    E-EDID* 1.3 compliant
    DVI-D uncompressed, high-speed, digital single-link
        connection
    Suggested scan rates: 1080i, 480p, 480i, 720p

Dimensions
  Width   29-3/4 inches (756 mm)
  Height 21-5/8 inches (549 mm)
  Depth   21-5/8 inches (549 mm)

Mass
  119 lbs (54kg)

Supplied Accessories
  Remote Control with 2 size "AA" alkaline batteries

Optional Stand
  ST30W63

Design and specifications are subject to change without notice.

----

* E-EDID = Enhanced-Extended Display Identification

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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. • Make sure the SPEAKERS function in the AUDIO menu is set properly. • Make sure the AUDIO CENTER CHANNEL switch is set properly. • If the MTS feature is in SAP mode, change it to STEREO mode.
Poor picture, sound OK	• Check the antenna connections. • The station may have broadcast difficulties. Try another channel. • Adjust the PICTURE menu. • Make sure your other devices are connected to the TV correctly.
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 on the remote control is set correctly.
Cannot receive above channel 13	• Make sure the device switch on the remote control 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 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	• Make sure the appropriate device mode on the remote control 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.

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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:

(1) 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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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:

(1) 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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