

TOSHIBA

OWNER'S MANUAL

Color Television

COLORSTREAM®

Introduction

Connecting
your TV

Using the
Remote Control

Setting up
your TV

Using the TV's
Features

Appendix



Owner's Record

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

Model number:

Serial number:

34AS42

Dear Customer,

Thank you for purchasing this Toshiba TV. This manual will help you use the many exciting features of your new TV.

Before operating the TV, please read this manual completely, and keep it nearby for future reference.

Safety Precautions

WARNING

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



WARNING
RISK OF ELECTRIC SHOCK
DO NOT OPEN



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



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



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

NOTE TO CATV INSTALLERS IN THE USA

This is a reminder to call the CATV system installer's attention to Article 820-40 of the NEC, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical. For additional antenna grounding information, see items 24 and 25 on page 4.

NOTICE OF POSSIBLE TV STAND INSTABILITY



DANGER: RISK OF SERIOUS PERSONAL INJURY OR DEATH!

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

NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

If a fixed (non-moving) pattern remains on the TV screen for long periods of time, the image can become permanently engrained in the picture tube. **This type of damage is NOT COVERED BY YOUR WARRANTY.** See item 32 on page 4.

Child Safety

It Makes A Difference Where Your TV Stands



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

The Issue

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

Toshiba Cares!



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

Tune Into Safety

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



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Arlington, VA 22201 U.S.A.
Tel. 703-907-7600 Fax 703-907-7690
www.CEA.org

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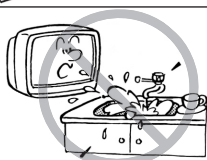
05/02.2

Important Safety Instructions

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

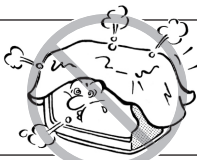


- 5) **Do not use this apparatus near water.**

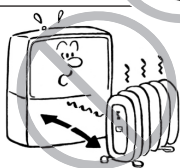


- 6) **Clean only with a dry cloth.**

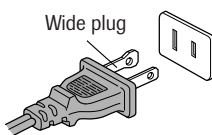
- 7) **Do not block any ventilation openings.** Install in accordance with the manufacturer's instructions.



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

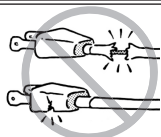


- 9) **Do not defeat the safety purpose of the polarized or grounding type plug.** A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does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



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

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

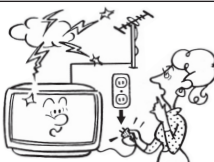


- 11) **Only use attachments/accessories specified by the manufacturer.**

- 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.



Installation, Care, and Service

Installation

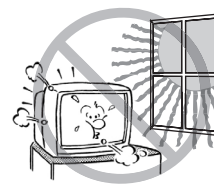
Follow these recommendations and precautions and heed all warnings when installing your TV:

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

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



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



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

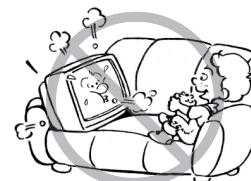


- 19) Never place items such as vases, aquariums, or candles on top of the TV.



- 20) Never block or cover the slots or openings in the TV cabinet back, bottom, and sides. Never place the TV:

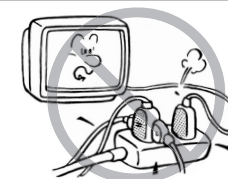
- on a bed, sofa, rug, or similar surface;
- too close to drapes, curtains, or walls; or
- in a confined space such as a bookcase, built-in cabinet, or any other place with poor ventilation.



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

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

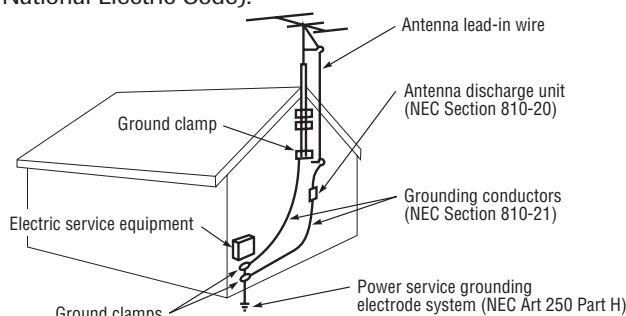
- 22) Never overload wall outlets and extension cords.



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



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



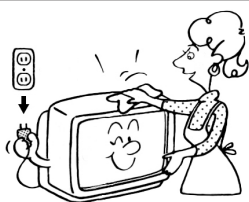
- 25) **! DANGER: RISK OF SERIOUS PERSONAL INJURY OR DEATH!**
- Use extreme care to make sure you are never in a position where your body (or any item you are in contact with, such as a ladder or screwdriver) can accidentally touch overhead power lines. Never locate the antenna near overhead power lines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

Care

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

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

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

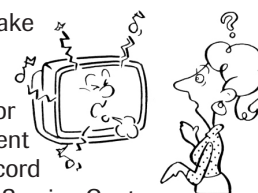


- 28) **! WARNING: RISK OF ELECTRIC SHOCK!** Never spill liquids or push objects of any kind into the TV cabinet slots.

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

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

- 31) During normal use, the TV may make occasional snapping or popping sounds. This is normal, especially when the unit is being turned on or off. If these sounds become frequent or continuous, unplug the power cord and contact a Toshiba Authorized Service Center.

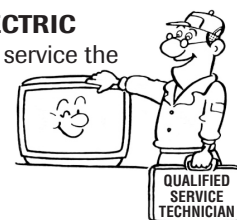


- 32) **Possible Adverse Effects on TV Picture Tube:** If a fixed (non-moving) pattern remains on the TV screen for long periods of time, the image can become permanently engrained in the picture tube and cause subtle but permanent ghost images. **This type of damage is NOT COVERED BY YOUR WARRANTY.** Never leave your TV on for long periods of time while it is displaying the following formats or images:

- **Fixed Images**, such as PIP/POP windows, stock tickers, video game patterns, TV station logos, and websites.
- **Special Formats** that do not use the entire screen. For example, viewing letterbox style (16:9) media on a normal (4:3) display (gray bars at top and bottom of screen); or viewing normal style (4:3) media on a widescreen (16:9) display (gray bars on left and right sides of screen).

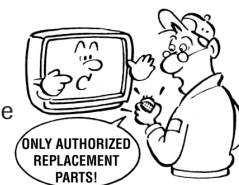
Service

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



- 34) If you have the TV serviced:

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



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

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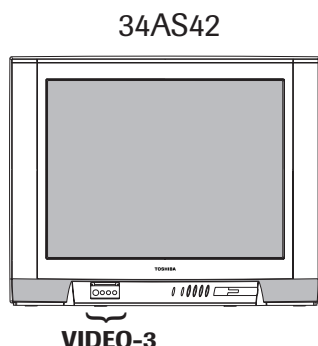
Introduction

- This owner's manual applies to model 34AS42.
- Instructions in this manual are based on using the remote control; however, you can use the buttons on the front panel of the TV if they have the same name as those referred to on the remote control.
- Check the model and serial numbers on the back of your TV before using this manual. Write the numbers in the space provided on the front cover of this manual for your records.

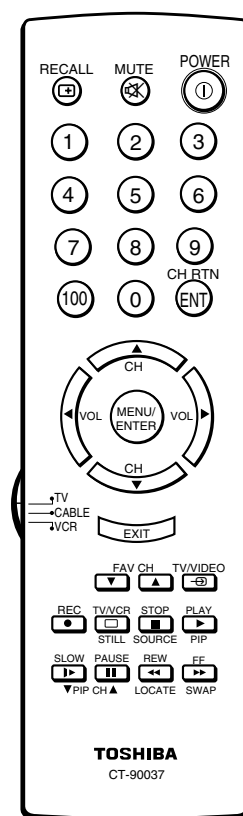
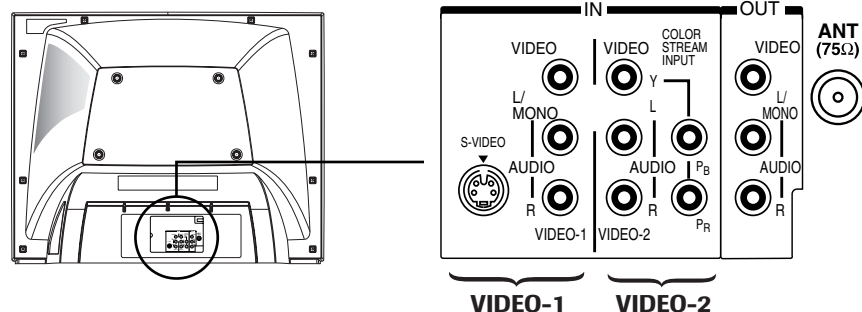
Exploring your new TV

- You can operate your TV using the buttons on the front panel or remote control.
- The front (VIDEO-3) and back panels provide inputs for connecting other equipment to your TV.

Front of TV



Back of TV



Selecting a location for your TV

- Place the TV either on the floor or on the TV stand listed in the "Specifications" section.
- Place the TV in a location where light does not directly hit the screen.
- Place the TV far enough from the walls to allow proper ventilation. Inadequate ventilation may cause overheating, which can damage the TV.

NOTE: Before installing your TV, please read the important safety information on pages 2–4.

Connecting your TV

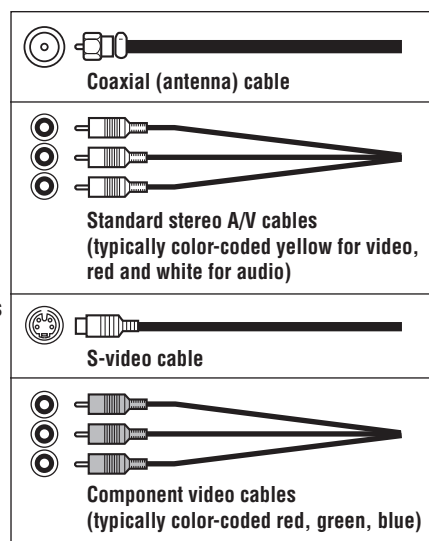
Note: Cables are not supplied with your TV.

- **Coaxial cable** is the cable that comes in from your antenna, cable TV service, or cable converter box. Coaxial cable uses “F” connectors.
- **Standard stereo A/V cables** usually come in sets of three, and are typically color-coded according to use: yellow for video, red for stereo right audio, and white for stereo left (or mono) audio. Your TV’s standard A/V inputs are color-coded in the same manner as the cables.
- **S-Video cable** is for use with video equipment that has S-Video connectors.
- **Component video cables** come in sets of three (typically color-coded red, green, and blue), and are for use with video equipment that has component video connectors. Your TV’s ColorStream® (component video) inputs are color-coded in the same manner as the cables.

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



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

Connecting a VCR

With this connection you can:

- watch TV channels and videotapes
- record one channel while watching the same or another channel

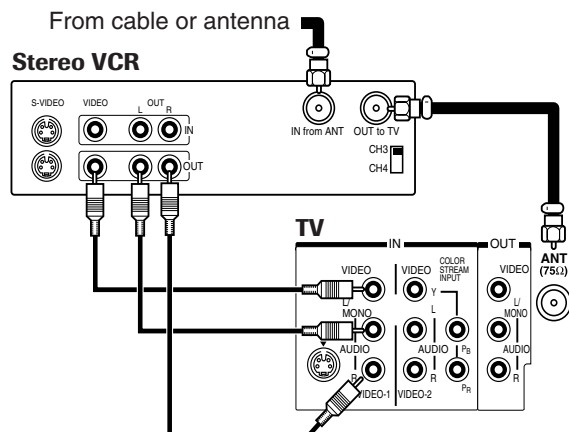
You will need:

- one coaxial cable
- one pair of audio cables (one single audio cable for a mono VCR)
- one video cable (For video cable type, see “Note Regarding Picture Quality,” above.)

Note:

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

The VIDEO-2 inputs on the back of the TV (and the VIDEO-3 inputs on the front of the TV) can be used for connecting a second (and third) piece of video equipment, such as a DVD player or camcorder (see “Note Regarding Picture Quality” above).



Connecting a cable converter box

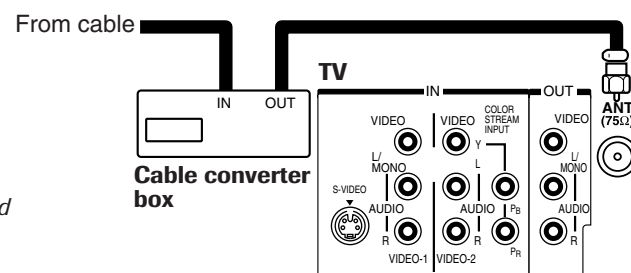
With this connection you can:

- watch basic and premium cable channels

Tune the TV to channel 3 or 4 (whichever channel is vacant in your area), and then use the converter box to change channels.

Note:

When you use a converter box with your TV, you may not be able to use the remote control to program certain features (for example, blocking channels).



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

Connecting a cable converter box and a VCR

With this connection you can:

- watch videotapes
- watch and record basic and premium cable channels
- record one channel while watching the same or another channel

Tune the VCR to channel 3 or 4 (whichever channel is vacant in your area), place the TV in VIDEO 1 mode, and then use the converter box to change channels.

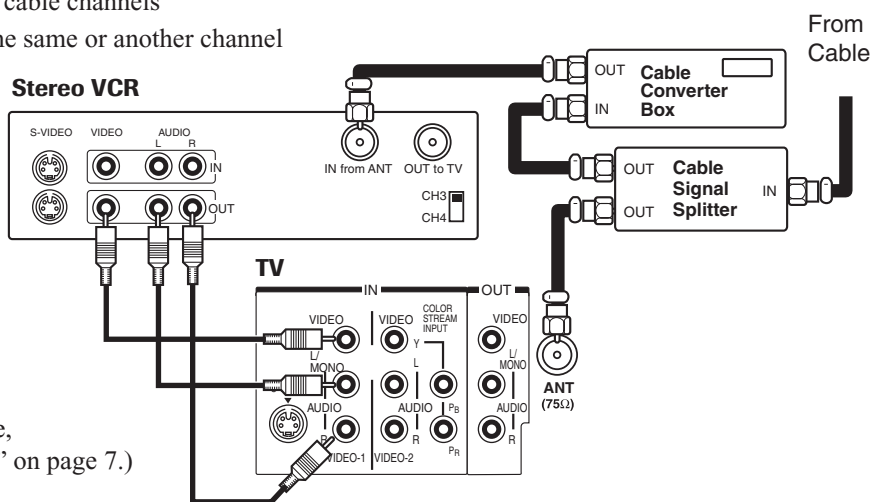
You will need:

- one cable signal splitter
- two coaxial cables
- one pair of audio cables (one single audio cable for a mono VCR)
- one video cable (For video cable type, see “Note Regarding Picture Quality” on page 7.)

Note:

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

When you use a converter box with your TV, you may not be able to use the remote control to program certain features (for example, blocking channels).



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Connecting a satellite receiver and a VCR

With this connection you can:

- watch videotapes
- watch satellite and TV channels
- record one TV channel while watching the same or another channel

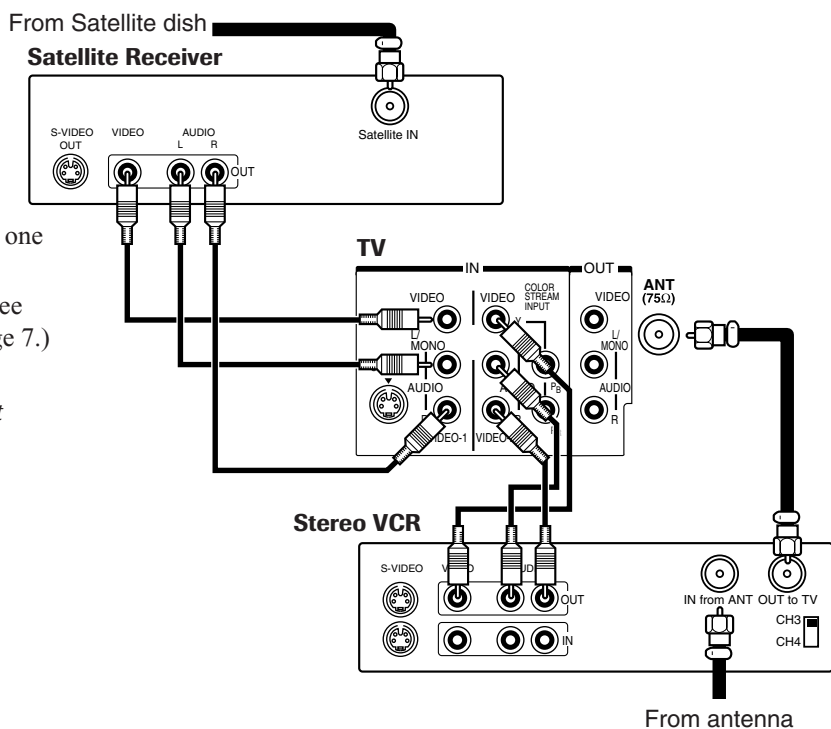
You will need:

- one coaxial cable
- two pairs of audio cables (one single and one pair of audio cables for a mono VCR)
- two video cables (For video cable type, see “Note Regarding Picture Quality” on page 7.)

Note:

To watch satellite programs, the TV must select VIDEO-1 (see page 16).

To watch VCR programs, the TV must select VIDEO-2 (see page 16).



Using the remote control

Preparing the remote control for use

Your TV remote control can operate your TV and most VCRs and cable TV converters, even if they are different brands.

If you have a Toshiba VCR or cable TV converter:

Your TV remote control is already programmed to operate it. See page 12.

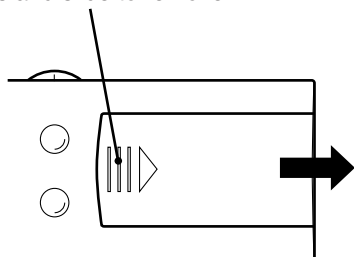
If you have a non-Toshiba VCR or cable TV converter:

You must first program your remote control so it will operate the other equipment. See pages 12–14.

Installing the remote control batteries

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

Press and slide to remove.



Caution:

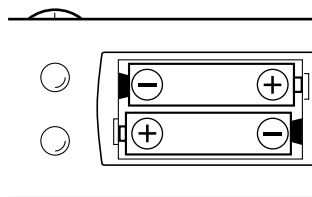
Dispose of batteries in a designated disposal area. Do not throw batteries into a fire.

Do not mix battery types or combine used batteries with new ones.

Remove dead batteries immediately to prevent battery acid from leaking into the battery compartment.

If you do not intend to use the remote control for a long time, remove the batteries.

- 2 Install two “AA” size batteries, making sure to match the + and – signs on the batteries to the signs on the battery compartment.



Note:

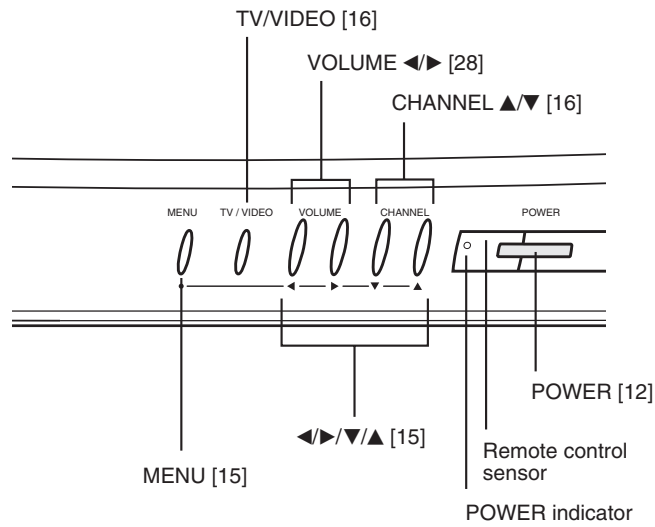
If your Toshiba TV remote control does not operate all of the features of your VCR or cable TV converter, use the original remote control for your other equipment.

- 3 Slide the battery cover back onto the remote control until the lock snaps.

Location of controls on TV and remote control

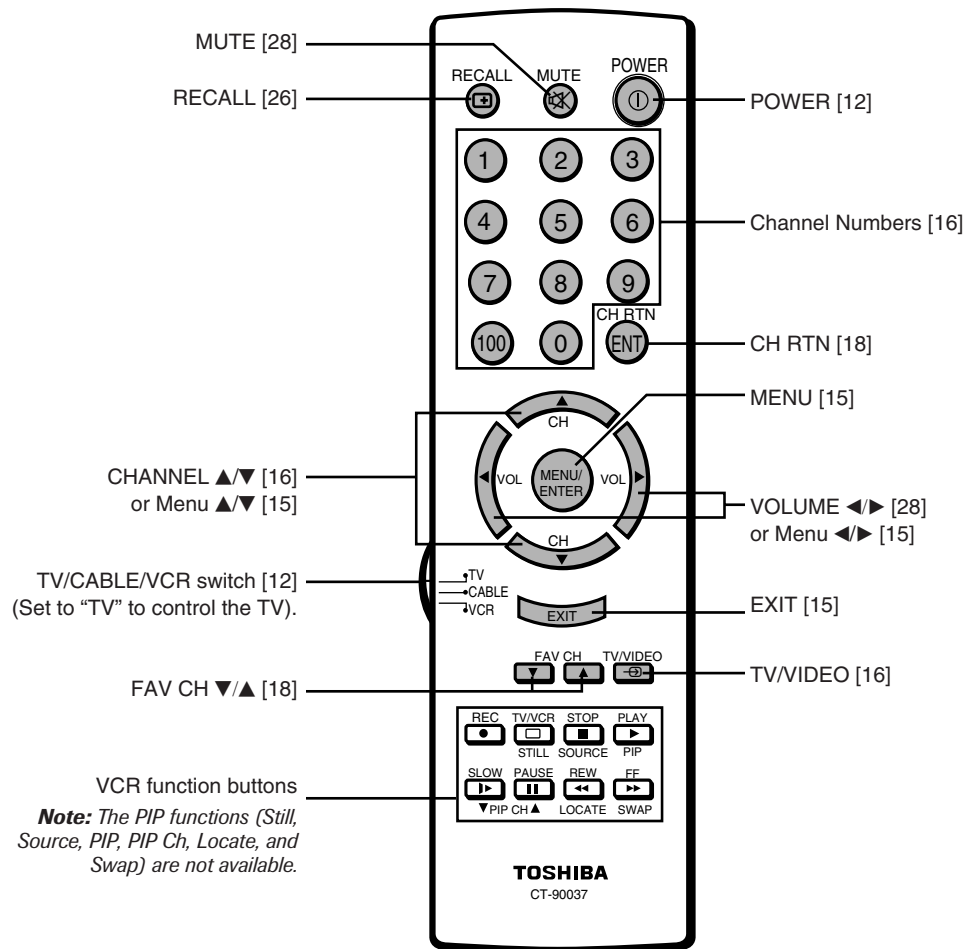
For details on the use of each control, refer to pages in brackets.

TV front panel



Remote control

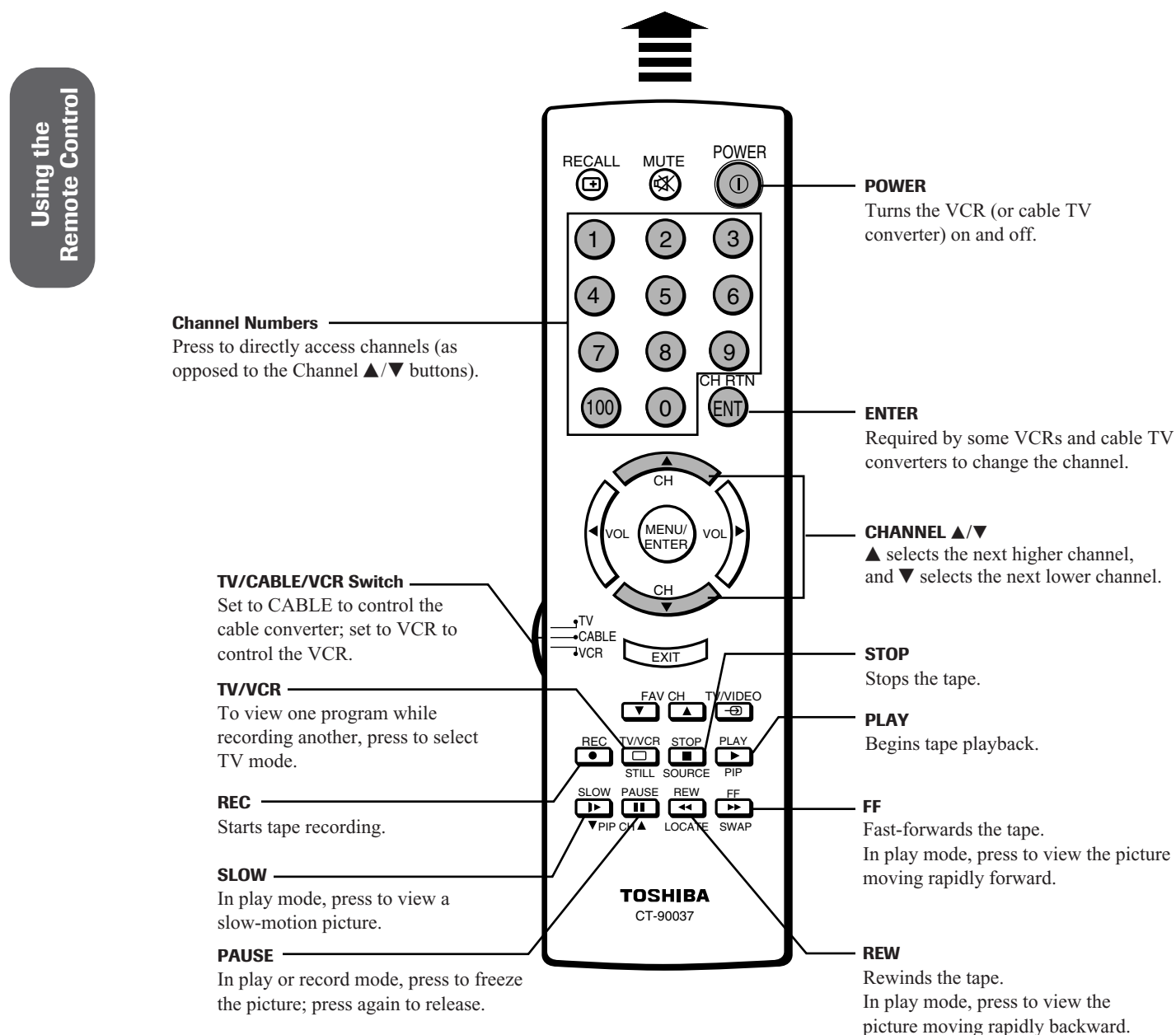
- The shaded buttons in the picture below glow in the dark.



Using the remote control to operate a VCR or cable TV converter

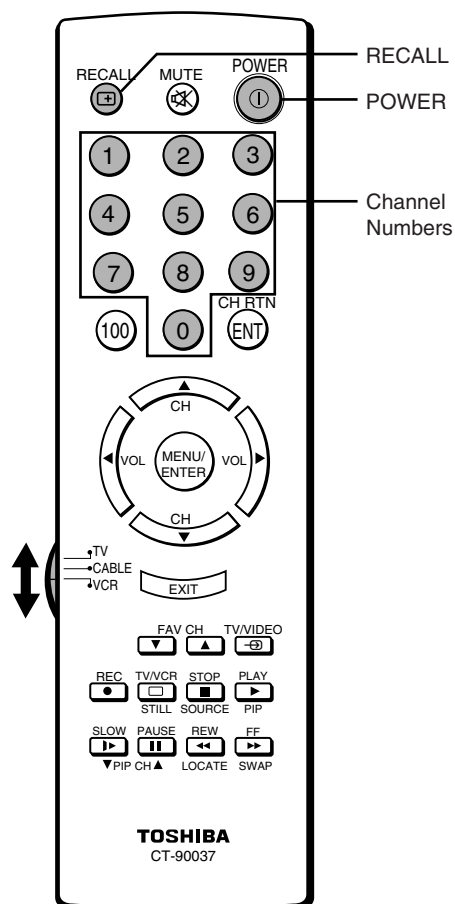
- If you have a non-Toshiba VCR or cable TV converter, you must first program the remote control to recognize your VCR or converter brand (see pages 13–14).
- To use your TV remote control to operate a VCR, set the **TV/CABLE/VCR** switch to VCR. The shaded buttons in the picture below will then operate the VCR instead of the TV.
- To use your TV remote control to operate a cable TV converter, set the **TV/CABLE/VCR** switch to CABLE. The shaded buttons shown in the picture below will then operate the converter instead of the TV.

Point the remote control at the VCR or cable TV converter



Programming the remote control to operate a non-Toshiba VCR or cable TV converter

Your Toshiba TV remote control is preprogrammed to operate Toshiba brand VCRs and cable TV converters. To program your TV remote control to operate a non-Toshiba VCR or a cable TV converter, follow these steps:



- 1 In the code table on page 14, find the code for your brand of VCR or cable TV converter.
If more than one code is listed, try each one separately until you find one that works.
- 2 Set the **TV/CABLE/VCR** switch to VCR (for a VCR), or CABLE (for a cable TV converter).
- 3 While holding down **RECALL**, press the **Channel Number** buttons to enter the 3-digit code for your brand of VCR or converter.
- 4 To test the code, turn the VCR or converter on, point the remote control at it, and press **POWER**.
-If the correct code was entered, the VCR or converter will turn off.
-If the VCR or converter does not respond, repeat steps 1–4 using another code.
-If the VCR or converter does not respond to a different code, you will need to use the remote control that came with your VCR or converter.
- 5 Set the **TV/CABLE/VCR** switch to TV to control the TV.

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

VCR Code: _____

Cable TV Converter Code: _____

Note:

You must reprogram the remote control every time the batteries are changed.
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.

Programming the remote control to operate a non-Toshiba VCR or cable TV converter (cont.)

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

VCR codes

Adventura	019
Aiko	297
Aiwa	019
Akai	060, 068, 080, 125, 261
American High	054
Asha	259
Audiovox	056
Beaumarck	259
Bell & Howell	123
Brandt	206
Broksonic	140, 203, 230, 314, 380
Calix	056
Canon	054
Capehart	039
Carver	100
CCE	091, 297
Citizen	056, 297
Colt	091
Craig	056, 066, 091, 259
Curtis Mathes	054, 060, 079
Cybernex	259
Daewoo	039, 064, 297
Daytron	039
Dynatech	019
Electrohome	056
Electroponic	056
Emerex	051
Emerson	019, 021, 056, 062, 080, 087, 140, 203, 227, 228, 230, 231, 297, 313, 314, 380, 498
Fisher	066, 073, 085, 123
Fuji	052, 054
Funai	019, 344
Garrard	019, 344
GE	054, 079, 084, 221
Goldstar	037, 056, 057
Gradiente	019
Harley Davidson	019
Harman/Kardon	057, 094
Harwood	087, 091
Headquarter	065
HI-Q	066
Hitachi	060, 061, 084, 124, 185, 254
Jensen	060
JVC	027, 060, 086
Kenwood	057, 060, 086
KLH	091
Kodak	054, 056
Lloyd	019
Lloyd's	227
Logik	091
LXI	056
Magnavox	054, 058, 100, 129, 168
Magnin	259
Marantz	054, 100
Marta	056
Matsushita	054
MEI	054
Memorex	019, 054, 056, 058, 065, 066, 067, 123, 259
MGA	062, 080
MGN Technology	259
Minolta	061, 124
Mitsubishi	062, 080, 086, 094, 192, 233, 261
Motorola	054, 067

MTC	019, 259
Multitech	019, 091
NAD	077
NEC	057, 059, 060, 069, 086
Nikko	056
Noblex	259
Olympus	054
Optimus	056, 067, 077, 123
Optonica	081
Orion	498
Panasonic	054, 096, 181, 244, 473
Penney	054, 056, 057, 059, 061, 073, 259
Pentax	061, 084, 124
Philco	054
Philips	054, 081, 100, 129
Pilot	056
Pioneer	077, 086
Portland	039
Protec	091
Pulsar	058
Quarter	065
Quarts	065
Quasar	054, 096
Radio Shack	019, 056, 344
Radix	056
Randex	056
RCA	061, 079, 084, 096, 124, 125, 168, 221
Realistic	019, 054, 056, 065, 066, 067, 081, 085, 123, 259
Ricoh	053
Runco	058
Samsung	064, 259
Sanky	058, 067
Sansui	060, 086
Sanyo	065, 066, 123, 259
Scott	062, 064, 140, 203, 229, 230, 231
Sears	054, 056, 061, 065, 066, 073, 085, 123, 124
Sharp	067, 081
Shintom	091
Shogun	259
Singer	091
Sony	051, 052, 053, 054
STS	061
Sylvania	019, 054, 062, 100, 129
Symphonic	019, 344
Tatung	060
Teac	019, 060
Technics	054, 181
Teknika	019, 054, 056, 071
Telefunken	206
TMK	227, 259
Toshiba	062, 064, 085, 229, 231, 385
Totevision	056, 259
Unitech	259
Vector	064
Vector Research	057, 059
Video Concepts	059, 064, 080
Videosonic	259
Wards	019, 054, 061, 066, 067, 081, 091, 168, 231, 259
XR-1000	019, 054, 091
Yamaha	057
Zenith	052, 053, 058

Cable TV converter codes

ABC	020, 022, 026, 027, 030, 032, 033, 036, 066
Antronix	041
Archer	041, 058, 172
Belcor	075
Cable Star	075
Cabletenna	041
Cableview	041
Century	172
Citizen	172
Colour Voice	044, 050
Comtronics	059, 079
Contec	038
Dae Ryung	027
Eastern	021
Focus	419
Garrard	172
GC Electronics	075
Gemini	034, 089
General Instrument	030, 295
Goldstar	059, 163
Hamlin	028, 039, 053, 278, 292
Hitachi	030
Hytex	026
Jasco	172
Jerrold	022, 030, 031, 033, 034, 066, 295
Macom	052
Magnavox	046
Memorex	019
Movie Time	175
NSC	089, 175
Oak	026, 038, 267
Panasonic	019, 040, 126
Paragon	019
Philips	044, 046, 047, 048, 049, 050, 172
Pioneer	042, 163, 552
Popular Mechanics	419
Pulsar	019
RCA	040
Recoton	419
Regal	039, 278, 292
Regency	021
Rembrandt	030, 089
Runco	019
Samsung	059, 163
Scientific Atlanta	025, 027, 036, 296
Signal	034, 059
Signature	030
SL Marx	059
Sprucer	040
Standard Components	174
Starcom	022, 034, 066
Stargate	034, 059
Starquest	034
Sylvania	020
Televue	059
Texscan	020
Tocom	031, 032, 078
Toshiba	019
Tusa	034
Unika	041, 172
United Artists	026
United Cable	022
Universal	041, 058, 075, 172
Viewstar	046, 079, 230
Zenith	019
Zentek	419

Setting up your TV

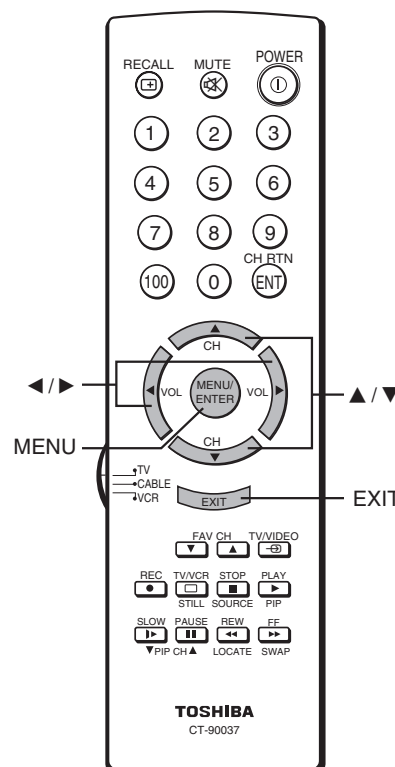
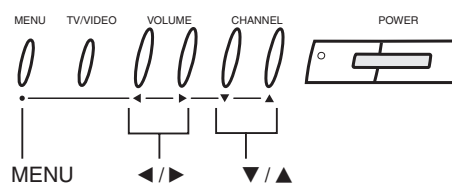
Menu system (general instructions)

After installing the batteries and programming the remote control, you will need to set some preferences on your TV using the menu system.

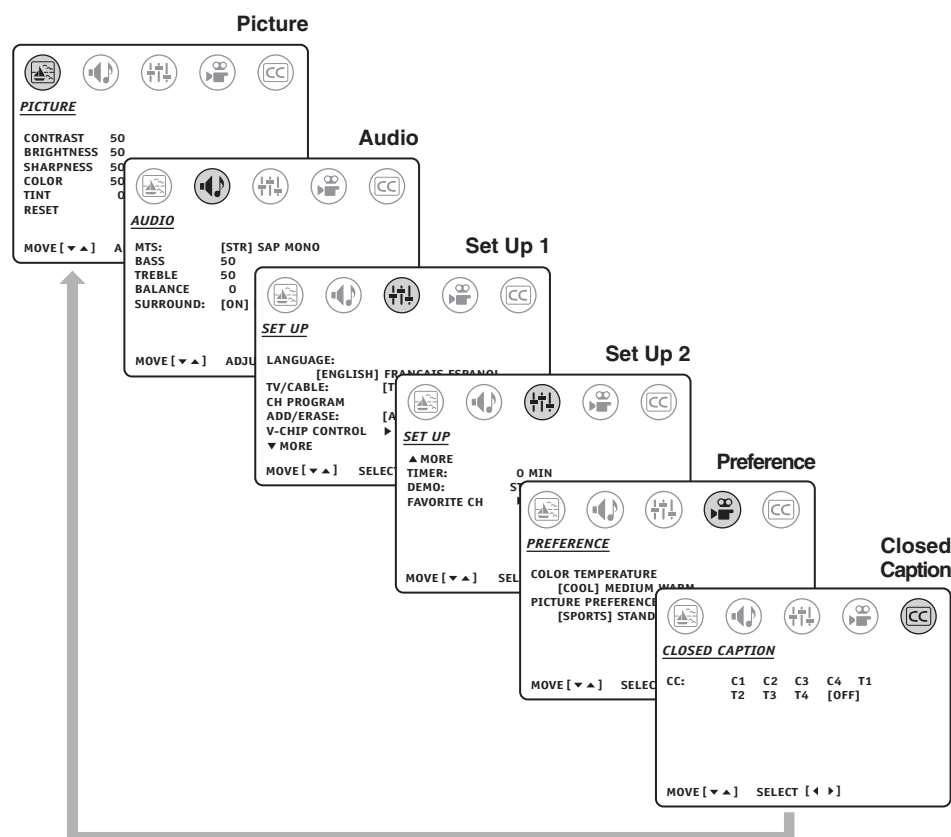
You can access the menus using the buttons on the TV front panel or remote control. Following are general instructions for using the menu system:

1. Repeatedly press **MENU** to select a menu (Picture, Audio, Setup, Preference, or Closed Caption, as shown in the menu system overview, below).
2. Press **▼** or **▲** to select the function you want to adjust in the menu (the **▼/▲** buttons function as **CHANNEL ▼/▲** buttons when no menu is on-screen).
3. Press **◀** or **▶** to adjust the selected function (the **◀/▶** buttons function as **VOLUME ◀/▶** buttons when no menu is on-screen).
4. When you make a menu selection, your changes occur immediately. You do not have to press **MENU** or **EXIT** to save your changes.
Note: The TV front panel does not have an **EXIT** button.
5. On-screen menus close automatically if no adjustments are made within 15 seconds. To close an on-screen menu instantly, press **EXIT** on the remote control.

TV Front Panel



Menu system overview



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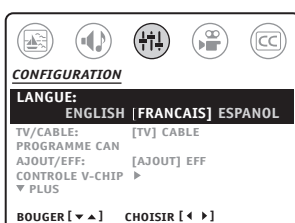
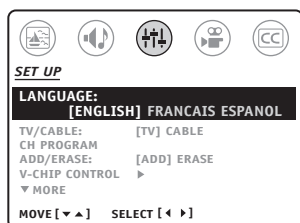
Appendix

Changing the on-screen display language

Choose from three different languages (English, French, or Spanish) for the on-screen display of menus and messages.

To select an on-screen display language:

1. Press **MENU**.
2. Press ◀ or ▶ until the SET UP menu appears.
3. Press ▲ or ▼ to highlight LANGUAGE.
4. Press ◀ or ▶ to highlight your desired language.



Selecting the signal source

Use the **TV/VIDEO** button on the remote control or TV to select the signal source connected to your TV.

To change the signal source:

Repeatedly press **TV/VIDEO** to select either TV, VIDEO 1, VIDEO 2, or VIDEO 3. The selected signal source is highlighted on-screen.



To verify the signal source:

Press **RECALL**.

Programming channels into the TV's memory

When you press **CHANNEL ▲▼** on the TV or remote control, the TV stops only on the channels stored in the TV's memory.

Note: To tune the TV to a channel not programmed into the memory, use the **CHANNEL NUMBERS** on the remote control.

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

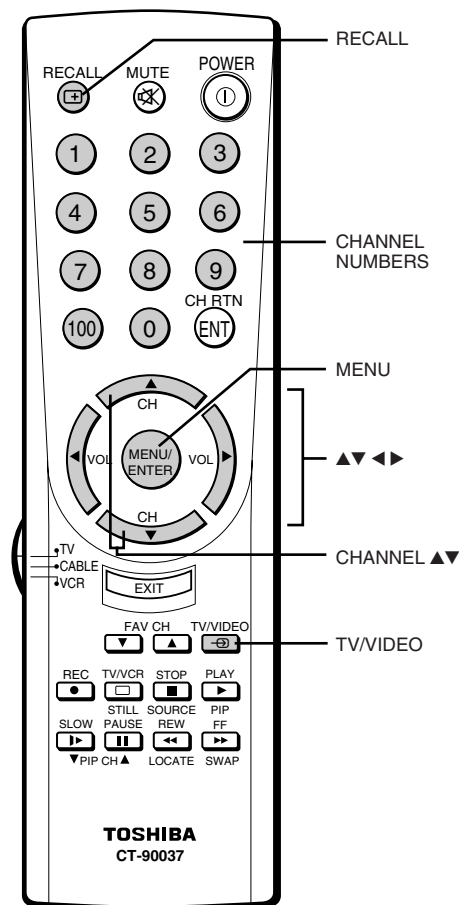
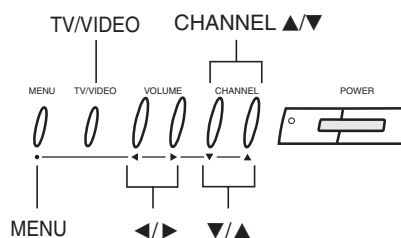
Programming channels automatically

Your TV can automatically detect all active channels in your area and store them in the TV's memory. After the channels are stored automatically, you can manually add or erase individual channels (see page 17).

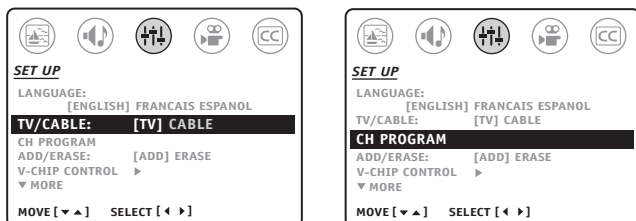
To program channels automatically:

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the SET UP menu.
3. Press ▲ or ▼ to highlight TV/CABLE.

TV Front Panel



- Press ◀ or ▶ to highlight TV (if you use an antenna) or CABLE (if you use cable).
- Press ▼ to highlight CH PROGRAM.



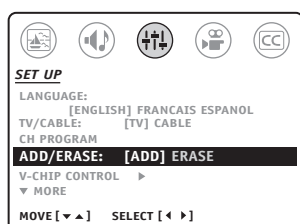
- Press ◀ or ▶ to start automatic channel programming ("CH PROGRAM" displays on-screen). The TV automatically cycles through every TV or cable channel (depending on which you selected), and stores all active channels in the TV's memory.
- When automatic channel programming is complete, the message "CH Programming Completed" appears.
- Press **CHANNEL ▲▼** to view the programmed channels.

Adding and erasing channels manually

After you have automatically programmed the channels into the TV's memory, you can manually add and erase individual channels.

To add a channel to or erase a channel from the TV's memory:

- Tune the TV to the channel you want to add or erase. If you are adding a channel, you will need to use the **CHANNEL NUMBERS** to select the channel.
- Press **MENU**.
- Press ◀ or ▶ to highlight the SET UP menu.
- Press ▲ or ▼ to highlight ADD/ERASE.



- Press ◀ or ▶ to highlight ADD or ERASE, whichever function you want to perform.
- Press **MENU**.
- Repeat steps 1–6 for other channels you want to add or erase, or press **EXIT** to return to normal TV viewing.

Changing channels

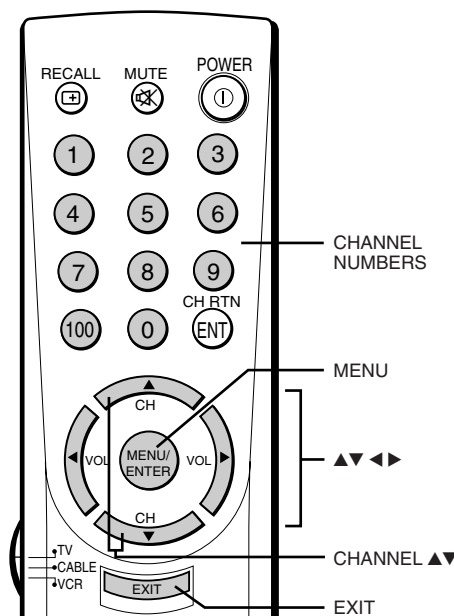
To change to the next programmed channel:

Press **CHANNEL ▲▼**.

To change to a specific channel (programmed or unprogrammed):

Press the **CHANNEL NUMBERS** (0–9 and 100).

Note: For channels 100 and higher, press the 100 button, and then the next two channel numbers (for example, to select channel 100, press 100, 0, 0; to select channel 125, press 100, 2, 5).



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Using the TV's features

Adjusting the channel settings

Switching between two channels

You can switch between two channels without entering an actual channel number each time.

To switch between two channels:

1. Select the first channel you want to view.
2. Select a second channel using the **CHANNEL NUMBERS** (0–9 and 100).
3. Press **CH RTN** (channel return). The previous channel will display.

Every time you press **CH RTN**, the TV will switch back and forth between the last two channels you tuned the TV to.

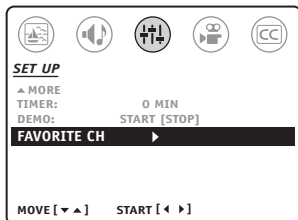
Programming your favorite channels

The Favorite Channel feature allows you to use the **FAV CH** $\blacktriangledown\blacktriangle$ buttons on the remote control to cycle through your favorite channels, skipping over channels you do not normally watch. You can program a maximum of 12 favorite channels.

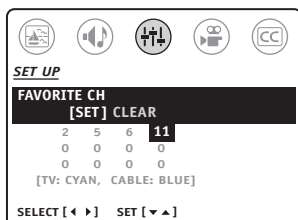
Note: You can still use **CHANNEL** $\blacktriangle\blacktriangledown$ to cycle through all the channels you previously programmed into the TV's memory (see "Programming channels in to the TV's memory" on page 16).

To program your favorite channels:

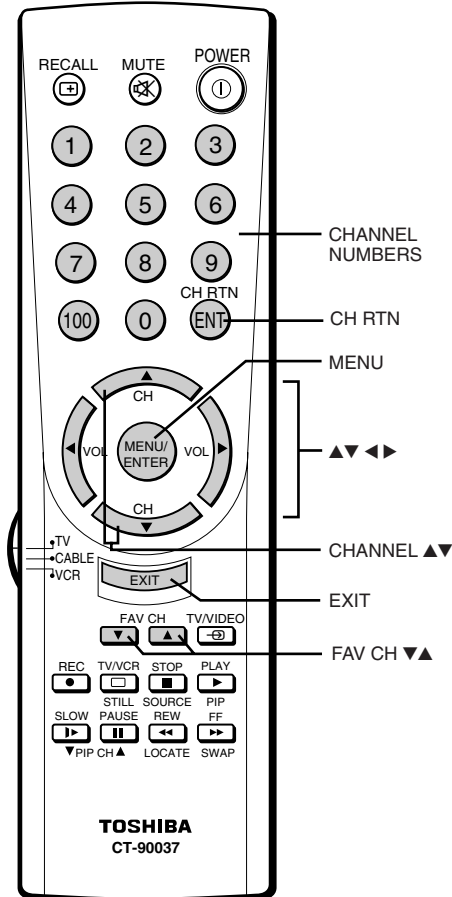
1. Tune the TV to a channel you want to program as a favorite channel.
2. Press **MENU**.
3. Press \blacktriangleleft or \blacktriangleright to highlight the SET UP menu.
4. Press \blacktriangle or \blacktriangledown to highlight FAVORITE CH.



5. Press \blacktriangleleft or \blacktriangleright to display the FAVORITE CH menu.
6. Press \blacktriangleleft or \blacktriangleright to highlight SET.
7. Press \blacktriangledown to add the current channel to the list.
8. Press **EXIT**.



9. Repeat steps 1–8 for up to 12 channels.



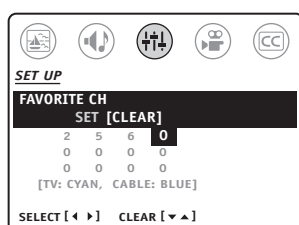
To select your favorite channels:

Press **FAV CH** \blacktriangledown \blacktriangle on the remote control to cycle through the favorite channels you programmed.

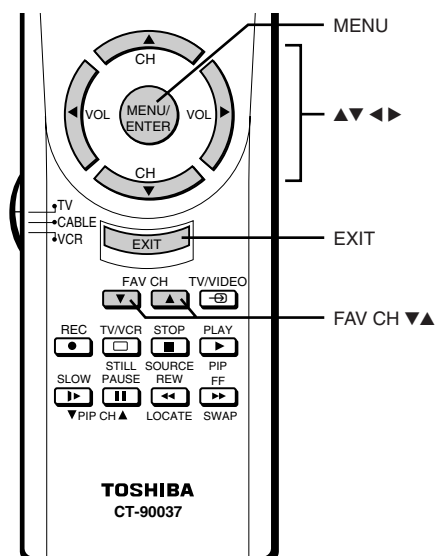
Note: The **FAV CH** \blacktriangledown \blacktriangle buttons will not work unless you program at least one favorite channel.

To clear a favorite channel:

1. Tune the TV to the channel you want to clear from your favorite channel list.
2. Press **MENU**.
3. Press \blacktriangleleft or \blacktriangleright to highlight the SET UP menu.
4. Press \blacktriangle or \blacktriangledown to highlight FAVORITE CH.
5. Press \blacktriangleleft or \blacktriangleright to display the FAVORITE CH menu.
6. Press \blacktriangleleft or \blacktriangleright to highlight CLEAR.



7. Press \blacktriangledown to clear the current channel number from the list.
8. Press **EXIT**.
9. Repeat steps 1–8 for other channels you want to clear from your favorite channel list.

**Using the V-Chip Control (blocking) feature**

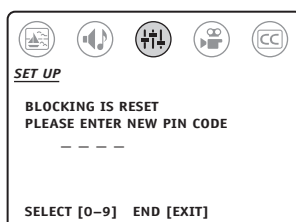
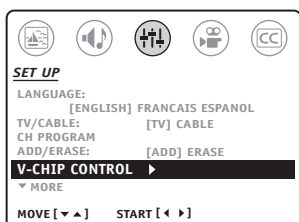
You can use the V-Chip Control feature to block certain programs or channels, to prevent others from viewing them.

Selecting a PIN code

Before you can block programs or channels, you must select a personal identification number (PIN) code. Your PIN code allows you to access the V-Chip Control menu, and prevents others from changing the rating and blocking limits you set.

To select your PIN code and access the V-Chip Control menu:

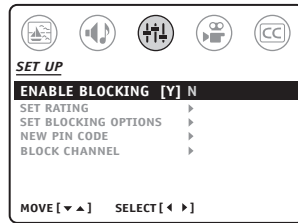
1. Press **MENU**.
2. Press \blacktriangleleft or \blacktriangleright to highlight the SET UP menu.
3. Press \blacktriangle or \blacktriangledown to highlight V-CHIP CONTROL.
4. Press \blacktriangleleft or \blacktriangleright to display the new PIN code entering screen.



(Continued on next page)

(Continued from previous page)

- Use the **CHANNEL NUMBERS** (0–9) to enter your four-digit PIN code. After the code is entered, the V-Chip Control menu appears.



V-Chip Control (Blocking) Menu

- Press **▲** or **▼** to highlight **ENABLE BLOCKING**.
- Press **◀** or **▶** to highlight **“Y,”** which enables all blocking by activating the V-Chip. See “Blocking programs by ratings” on page 21, “Blocking unrated movies and programs” on page 23.

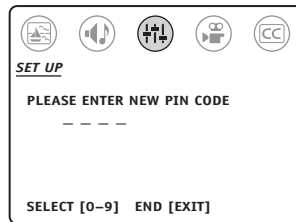
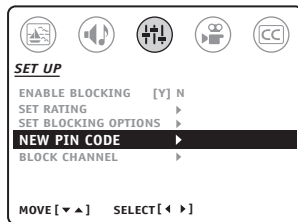
Note: The “Blocking channels” feature (page 24) is not affected by the “Enable Blocking” setting.

To disable blocking:

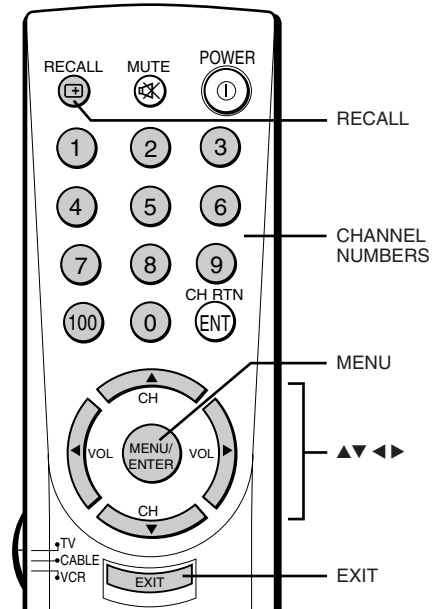
Highlight **“N”** in step 7, above, to deactivate the V-Chip Control feature and disable blocking.

Changing your PIN code

- Press **MENU**.
- Press **◀** or **▶** to highlight the **SET UP** menu.
- Press **▲** or **▼** to highlight **V-CHIP CONTROL**.
- Press **◀** or **▶** to display the PIN code entering screen.
- Use the Channel Number buttons (0–9) to enter your existing PIN code. After the code is entered, the V-Chip Control menu appears.
- Press **▲** or **▼** to highlight **NEW PIN CODE**.
- Press **◀** or **▶** to display the New PIN Code entering screen.

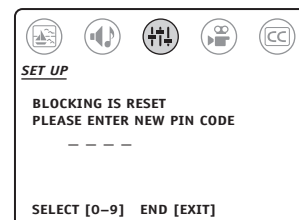


- Use the **CHANNEL NUMBERS** (0–9) to enter a new PIN code. After the new code is entered, the V-Chip Control menu appears.
- Press **EXIT** to return to normal TV viewing.



If you forget your PIN code

- Press **MENU**.
- Press **◀** or **▶** to highlight the **SET UP** menu.
- Press **▲** or **▼** to highlight **V-CHIP CONTROL**.
- Press **◀** or **▶** to display the PIN code entering screen.
- While the PIN code entering screen is displayed, press **RECALL** four times within five seconds. The “Blocking Is Reset” screen appears.



- Use the **CHANNEL NUMBERS** (0–9) to enter a new PIN code. After the new code is entered, the V-Chip Control menu appears.
- Press **EXIT** to return to normal TV viewing.

Blocking programs by ratings

The Motion Picture Association of America (MPAA) uses a rating system to qualify motion picture content. Television broadcasters employ a similar rating system to qualify the content of television programs. The MPAA, Youth TV, and TV ratings work with the V-Chip feature to allow you to block access to programs that exceed the rating limits you set.

Note:

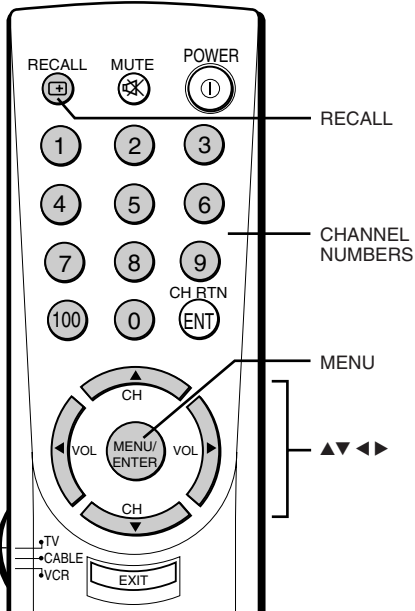
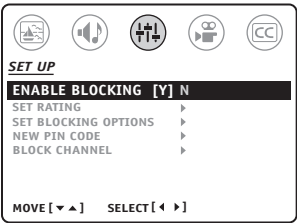
Press **RECALL** to see the rating of the program you are viewing. Not all programs are rated, however. To block programs or movies that are not rated, see “Blocking unrated movies and programs” on page 23.



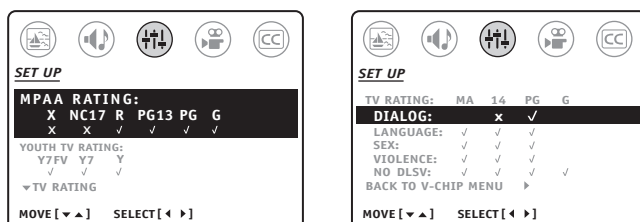
Ratings definitions	
MPAA Ratings X For adults only. NC17 Not intended for anyone 17 or under. R Restricted. Under 17 requires an accompanying parent or adult guardian. PG13 Parents strongly cautioned. Some material may not be appropriate for children under 13. PG Parental guidance suggested. Some material may not be appropriate for children. G General audience. Appropriate for all ages. Youth TV Ratings Y7 Y7FV Directed to older children. Programs rated Y7 are designed for children 7 and above. Programs rated Y7FV contain fantasy violence that may be more intense or combative than Y7-rated programs. Y For all children. Programs rated Y are designed to be appropriate for all children.	TV Ratings MA Mature audience only. This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17. Dialog Intensely suggestive dialog Language Crude or indecent language Sex Explicit sexual activity Violence Graphic violence 14 Parents strongly cautioned. This program contains some material that many parents would find unsuitable for children under 14 years of age. Dialog Frequent suggestive dialog Language Frequent coarse language Sex Intense sexual situations Violence Intense violence PG Parental guidance suggested. This program contains material that parents may find unsuitable for younger children. Dialog Some suggestive dialog Language Occasional coarse language Sex Some sexual situations Violence Moderate violence G General audience. Most parents would find this program suitable for all ages. No DLSV Programs without any Dialog, Language, Sex, or Violence ratings.

To block programs by ratings:

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the SET UP menu.
3. Press ▲ or ▼ to highlight V-CHIP CONTROL.
4. Press ◀ or ▶ to display the PIN code entering screen.
5. Use the **CHANNEL NUMBERS** (0–9) to enter your four-digit PIN code. After the code is entered, the V-Chip Control menu appears.
6. Press ▲ or ▼ to highlight ENABLE BLOCKING.
7. Press ◀ or ▶ to highlight “Y,” which enables all blocking by activating the V-Chip. (**Note:** Highlight “N” to deactivate the V-Chip Control feature and disable blocking.)



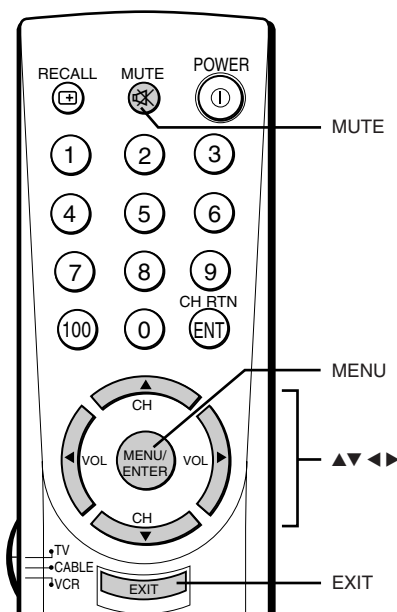
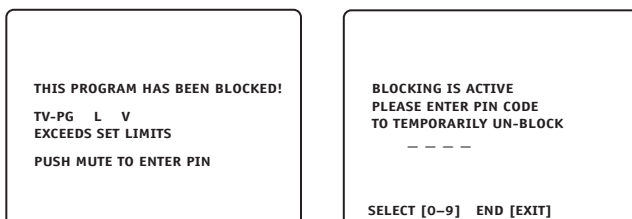
8. Press ▲ or ▼ to highlight SET RATING.
9. Press ◀ or ▶ to display the Set Rating menu.
10. Press ▲ or ▼ to highlight MPAA Rating, Youth TV Rating, or TV Rating.
11. Press ▶ to select (or ◀ to deselect) the ratings to be blocked. Blocked ratings will be marked with “X”; unblocked ratings will be marked with “✓.” All ratings higher than the ones that are selected are blocked as well. For example, if you block the MPAA rating R, programs with the higher ratings NC17 and X also will be blocked.



12. When you finish selecting the program ratings to be blocked:
 - To return to the V-Chip menu, press ▲ or ▼ to highlight BACK TO V-CHIP MENU, and then press ◀ or ▶.
 - To return to normal TV viewing, press **EXIT**.

Unblocking programs temporarily

When you try to view a program with a ratings block, a message appears stating that the program has been blocked because the program's rating exceeds the set limits. To temporarily override the block and view the program, press **MUTE** and enter your PIN code. To reset your original ratings blocks, turn the TV off and then on again.



Note:

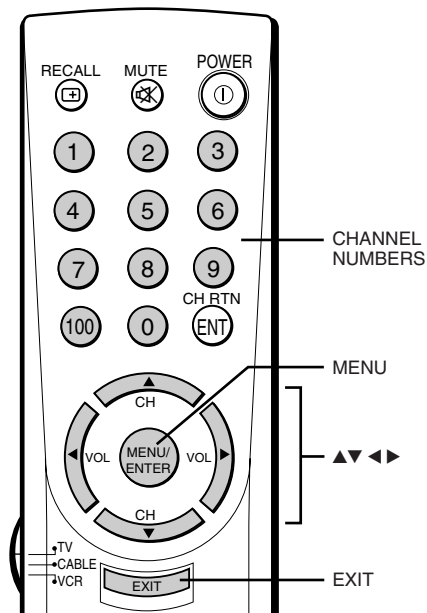
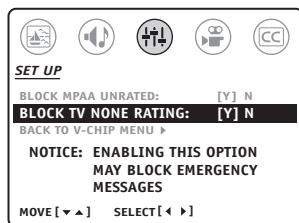
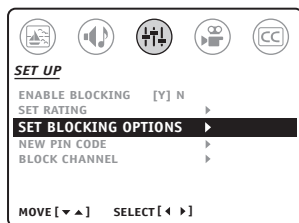
After unblocking programs temporarily, all programs will be unblocked until the TV is turned off. The TV will enter blocked mode when it is turned on again.

Blocking unrated movies and programs

Some movies and programs are not rated. You can use the V-Chip Control feature to block unrated movies and programs.

To block unrated movies and programs:

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the SET UP menu.
3. Press ▲ or ▼ to highlight V-CHIP CONTROL.
4. Press ◀ or ▶ to display the PIN code entering screen.
5. Use the **CHANNEL NUMBERS** (0–9) to enter your four-digit PIN code. After entering the code, the V-Chip Control menu appears.
6. Press ▲ or ▼ to highlight ENABLE BLOCKING.
7. Press ◀ or ▶ to highlight “Y,” which enables all blocking by activating the V-Chip. (**Note:** Highlight “N” to deactivate the V-Chip feature and disable blocking.)
8. Press ▲ or ▼ to highlight SET BLOCKING OPTIONS.
9. Press ◀ or ▶ to display the unrated movie/program blocking menu.
10. Press ▲ or ▼ to highlight BLOCK MPAA UNRATED (to block unrated movies) or BLOCK TV NONE RATING (to block unrated TV programs).
11. Press ◀ or ▶ to highlight “Y” to block movies/programs rated “TV None.” (**Note:** Highlight “N” to unblock unrated programs.)
12. Press **EXIT** to return to normal TV viewing.



Note:

Blocking unrated TV programs (those rated “TV NONE”) also may block emergency messages.

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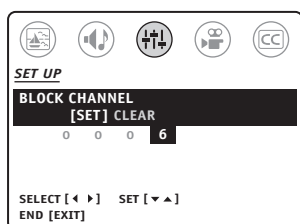
Appendix

Blocking channels

You can block a maximum of four TV channels and four cable channels. Blocked channels cannot be viewed, regardless of their programs' ratings. If you try to tune the TV to a blocked channel, the nearest unblocked channel will display.

To block a channel:

1. Tune the TV to the channel you want to block.
2. Press **MENU**.
3. Press ◀ or ▶ to highlight the SET UP menu.
4. Press ▲ or ▼ to highlight V-CHIP CONTROL.
5. Press ◀ or ▶ to display the PIN code entering screen.
6. Use the **CHANNEL NUMBERS** (0–9) to enter your four-digit PIN code. After entering the code, the V-Chip Control menu appears.
7. Press ▲ or ▼ to highlight BLOCK CHANNEL.
8. Press ◀ or ▶ to display the BLOCK CHANNEL menu. SET/CLEAR will be highlighted.
9. Press ◀ or ▶ to highlight SET.
10. Press ▼ to add the current channel to the list.

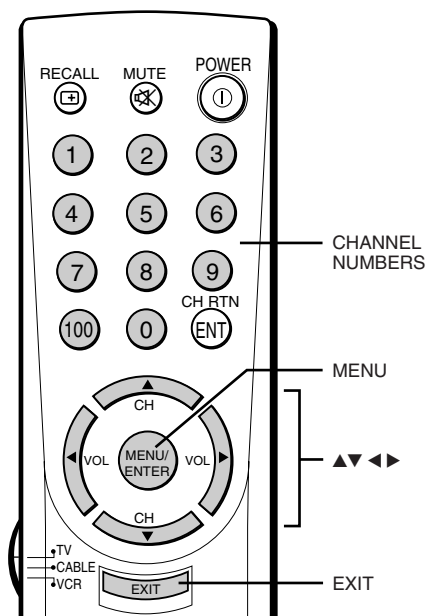


11. Press **EXIT**.
12. Repeat steps 1–11 to block additional channels.

To unblock all blocked channels:

Note: This will unblock every channel you have blocked. You cannot unblock individual channels.

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the SET UP menu.
3. Press ▲ or ▼ to highlight V-CHIP CONTROL.
4. Press ◀ or ▶ to display the PIN code entering screen.
5. Use the **CHANNEL NUMBERS** (0–9) to enter your four-digit PIN code. After entering the code, the V-Chip Control menu appears.
6. Press ▲ or ▼ to highlight BLOCK CHANNEL.
7. Press ◀ or ▶ to display the BLOCK CHANNEL menu. SET/CLEAR will be highlighted.
8. Press ◀ or ▶ to highlight CLEAR.
9. Press ▼ to clear all blocked channels from the list.
10. Press **EXIT**.



Note:

After programming CHANNEL BLOCK, be sure to tune the TV to a channel that is not blocked before turning the TV off.

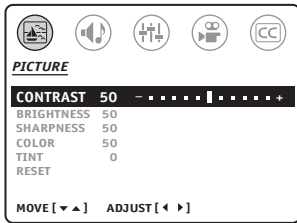
Adjusting the picture

Adjusting the picture quality

You can adjust the picture's contrast, brightness, sharpness, color, and tint. Your picture quality adjustments are stored automatically in the TV's memory. You can keep these settings or choose preset options in the PREFERENCE menu (see "Selecting the color temperature" below, and "Adjusting the picture preference" on the next page.)

To adjust the picture quality:

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the PICTURE menu.
3. Press ▲ or ▼ until the quality you want to adjust is highlighted.



Note:

To reset the picture (and audio) adjustments to the factory settings, select **RESET** in the PICTURE menu, and then press ▶.

4. Press ◀ or ▶ to adjust the level, as described in the following table:

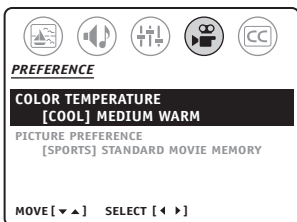
Selection	◀ Pressing ▶	
Contrast	Lower	Higher
Brightness	Darker	Lighter
Sharpness	Softer	Sharper
Color	Paler	Deeper
Tint	Reddish	Greenish

Selecting the color temperature

Change the picture quality by selecting from three preset color temperatures—cool, medium, and warm.

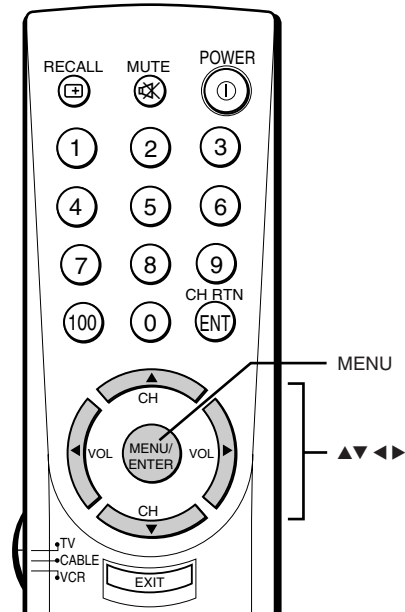
To select the color temperature:

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the PREFERENCE menu.
3. Press ▲ or ▼ to highlight COLOR TEMPERATURE.



4. Press ◀ or ▶ to highlight the mode you prefer, as described in the following table:

Mode	Picture Quality
Cool	Blueish
Medium	Neutral
Warm	Reddish

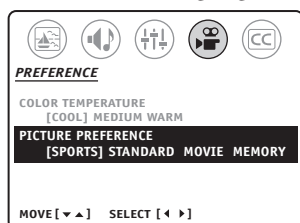


Adjusting the picture preference

You can select from four picture modes—Sports, Standard, Movie, and Memory.

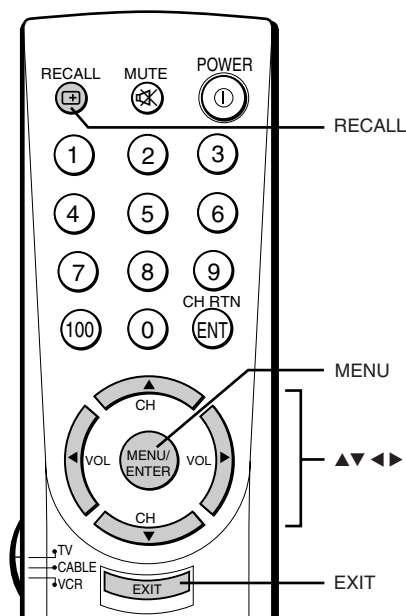
To adjust the picture preference:

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the PREFERENCE menu.
3. Press ▲ or ▼ to highlight PICTURE PREFERENCE.



4. Press ◀ or ▶ to highlight the mode you prefer, as described in the following table:

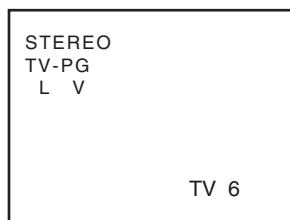
Mode	Picture Quality
Sports	Bright and dynamic picture (factory-set)
Standard	Standard picture quality (factory-set)
Movie	Movie-like picture setting (factory-set)
Memory	Your personal preferences (set by you; see Adjusting the picture quality" on previous page)



Displaying on-screen information

Press **RECALL** to display the following information on-screen:

- Audio status (stereo or SAP)
- Rating of current program (if rated)
- Channel number or video mode



Setting the off timer

The off timer automatically turns off the TV after a set amount of time.

To set the off timer:

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the SETUP menu.
3. Press ▲ or ▼ to highlight TIMER.
4. Press ▶ to increase (or ◀ to decrease) the amount of time until the TV turns off automatically (in 10-minute increments, to a maximum of 180).
5. Press **EXIT** to exit the menu and return to normal TV viewing.



To cancel the off timer:

Set the off timer to 0 (zero) minutes in step 4 above, or turn off the TV.

Auto power off

The TV turns off automatically after approximately 15 minutes if it is tuned to a vacant channel or a station that stops broadcasting for the day.

Note: The auto power off feature does not work in VIDEO mode.

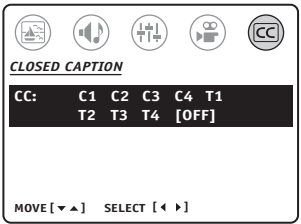
Using the closed caption feature

The Closed Caption feature has two options:

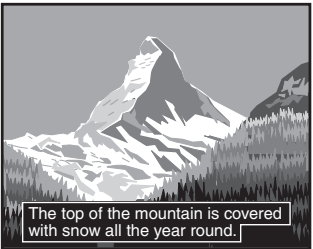
- Captions—An on-screen display of the dialogue, narration, and sound effects of programs and videos that are closed-captioned (usually identified in your local TV listing as “CC”).
- Text—An on-screen display of information not related to the program, such as weather or stock data (if available in your viewing area).

To view captions or text:

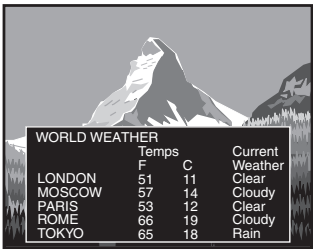
1. Tune the TV to the desired program.
2. Press **MENU**, and then press ◀ or ▶ to highlight the CLOSED CAPTION menu.
3. Press ▲ or ▼ to highlight CC.



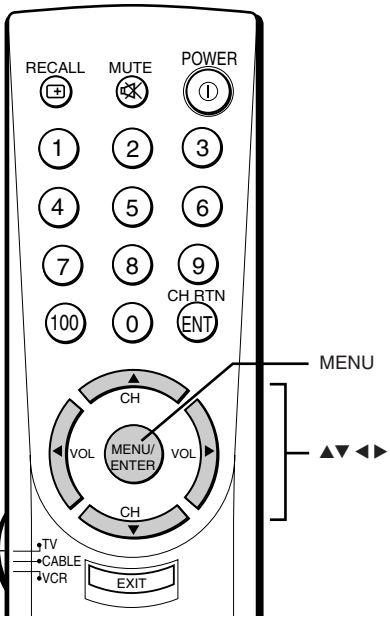
4. Press ◀ or ▶ to select the desired Closed Caption mode, as follows:
 - To view captions, select C1, C2, C3, or C4 (C1 displays translation of the primary language in your area). **Note:** If the program or video you selected is not closed-captioned, no captions will display on-screen.



- To view text, select T1, T2, T3, or T4. **Note:** If text is not available in your viewing area, a black rectangle may appear on-screen. If this happens, set the Closed Caption feature to OFF.



- To turn the Closed Caption feature off, highlight OFF in the Closed Caption 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 non-standard

Adjusting the sound

Muting the sound

Press **MUTE** to temporarily turn off the sound. While the sound is off, the screen displays the word “MUTE” in the lower right corner. To restore the sound, press **MUTE** or **VOL ◀▶**.

When you press **MUTE**, the Closed Caption feature is automatically activated. To deactivate captions and restore normal sound, press **MUTE** again. This feature works only when the Closed Caption mode is set to OFF. For more information about closed caption settings, see “Using the closed captioned feature” on page 27.

Selecting stereo/SAP broadcasts

The multi-channel TV sound (MTS) feature provides high-fidelity stereo sound. MTS also can transmit a second audio program (SAP) containing a second language or other audio information.

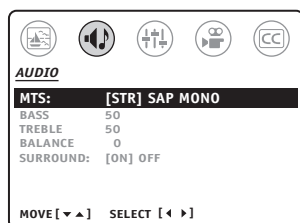
Note: The MTS feature is not available in VIDEO mode.

When the TV receives a stereo or SAP broadcast, the word “STEREO” or “SAP” displays on-screen every time you turn the TV on, change the channel, or press **RECALL**.

To listen to stereo sound:

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the AUDIO menu.
3. Press ▲ or ▼ to highlight MTS.
4. Press ◀ or ▶ to highlight STR (stereo).

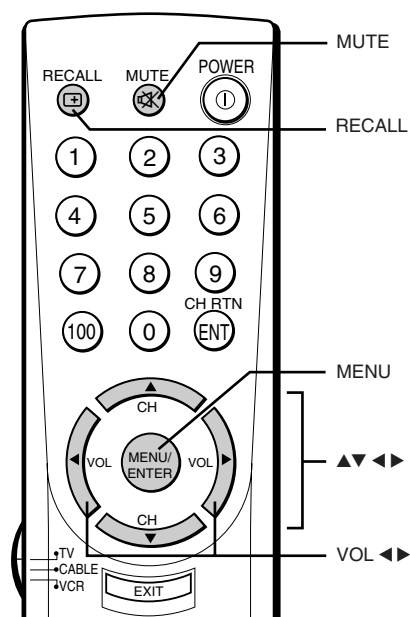
Note: If the stereo sound is noisy, select MONO to reduce the noise.



Note: In general, if you leave the TV in stereo (STR) mode, the TV will automatically output the type of sound being broadcast (stereo or mono).

To listen to a second audio program (SAP):

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the AUDIO menu.
3. Press ▲ or ▼ to highlight MTS.
4. Press ◀ or ▶ to highlight SAP. The TV speakers will output the second audio program (if available), instead of normal audio.

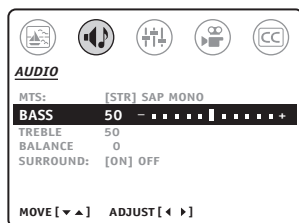


Adjusting the sound quality

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

To adjust the sound quality:

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the AUDIO menu.
3. Press ▲ or ▼ to highlight the quality you want to adjust (BASS, TREBLE, or BALANCE).
4. Press ◀ or ▶ to adjust the level:
 - ◀ makes the sound quality weaker or increases the balance in the right channel, depending on the item selected.
 - ▶ makes the sound quality stronger or increases the balance in the left channel, depending on the item selected.

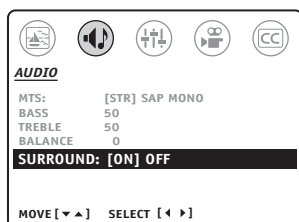


Using the surround sound feature

The surround sound feature expands the audio listening field wider and deeper to create exceptional sound quality from the TV speakers. This feature uses stereo signals from a TV broadcast or video input.

To turn surround sound on:

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the AUDIO menu.
3. If you have not already done so, select STEREO mode (press ▲ or ▼ to highlight MTS, and then press ◀ or ▶ to highlight STR).
4. Press ▲ or ▼ to highlight SURROUND.
5. Press ◀ or ▶ to highlight ON.



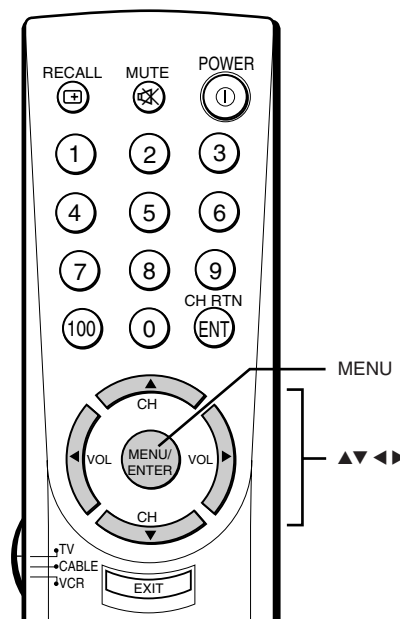
To turn surround sound off:

Highlight OFF in step 5 above.

Note: In general, if you leave the surround sound feature ON, the TV will automatically output the type of sound being broadcast (surround stereo or mono).

Note:

To reset the audio adjustments (bass, treble, and balance) to the factory settings, select **RESET** in the **PICTURE** menu (see note on page 25).

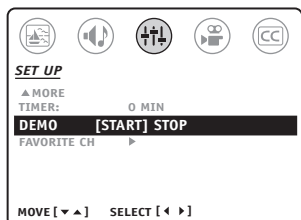


Viewing the demonstration (DEMO) mode

The DEMO mode automatically demonstrates several features of your TV.

To start the DEMO mode:

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the SET UP menu.
3. Press ▲ or ▼ to highlight DEMO.



4. Press ◀ or ▶ to highlight START.
5. Press **MENU** to start the demo.

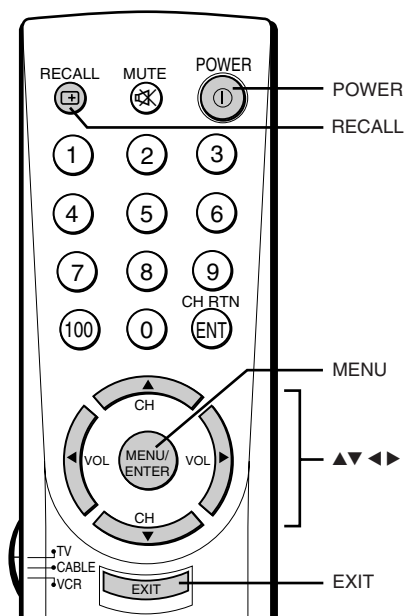
To stop the DEMO mode:

Press **RECALL**, **EXIT**, or **POWER**.

Understanding the last mode memory feature

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

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



Appendix

Specifications

Television system	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	120V AC, 60Hz
Power consumption	102 W (average)
Audio power	5W + 5W
Speaker type	2-3/8 x 4-3/4 inches (60 x 120 mm)
Audio/Video terminals	S-VIDEO INPUT Y-INPUT: 1V (p-p), 75 ohm, negative sync. C-INPUT: 0.286V (p-p) (burst signal), 75 ohm AUDIO/VIDEO INPUT VIDEO: 1V(p-p), 75 ohm, negative sync. AUDIO: 150mV(rms) (30% modulation equivalent, 47k ohm) ColorStream® (component video) INPUT Y: 1V (p-p), 75 ohm C _R (P _R): 0.7 V (p-p), 75 ohm C _B (P _B): 0.7 V (p-p), 75 ohm AUDIO/VIDEO OUTPUT VIDEO: 1V(p-p), 75 ohm, negative sync. AUDIO: 150mV(rms) (30% modulation equivalent, 4.7k ohm)
Dimensions	Width 34 inches (864mm) Height 27-1/2 inches (699mm) Depth 21-1/8 inches (537mm)
Mass	111 lbs (50,3kg)
Supplied accessories	Remote Control with 2 size “AA” batteries
Optional TV stand	ST3242

Design and specifications are subject to change without notice.

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Troubleshooting

Before calling service personnel, please check the following chart for a possible cause of the problem you are experiencing. A minor adjustment on your part may eliminate the problem and restore your TV reception.

Problem	Checks and Adjustments
TV will not turn on	<ul style="list-style-type: none"> Make sure the power cord is plugged in, and then press POWER. The remote control batteries may be dead. Replace the batteries.
No picture, no sound	<ul style="list-style-type: none"> Check the antenna/cable connections.
No sound, picture OK	<ul style="list-style-type: none"> The sound may be muted. Press VOLUME ►. The station may have broadcast difficulties. Try another channel. Make sure the MTS feature is set correctly.
Poor sound, picture OK	<ul style="list-style-type: none"> The station may have broadcast difficulties. Try another channel. An appliance near the TV may be causing interference. Move or turn off the appliance.
Poor picture, sound OK	<ul style="list-style-type: none"> Check the antenna/cable connections. The station may have broadcast difficulties. Try another channel. An appliance near the TV may be causing interference. Move or turn off the appliance. Adjust the Picture menu.
Poor reception of broadcast channels	<ul style="list-style-type: none"> The station may have broadcast difficulties. Try another channel. Check the antenna connections. If using a VCR, make sure the TV/VCR button is set correctly.
No UHF, VHF OK	<ul style="list-style-type: none"> Make sure the TV/CABLE function is set to the mode that corresponds to the signal source type (cable company or outside antenna).
Black box appears on the screen	<ul style="list-style-type: none"> The Closed Caption Text feature (T1, T2, T3, or T4) may be on. Set the Closed Caption feature to OFF.
Cannot select a certain channel	<ul style="list-style-type: none"> The channel may be blocked by the BLOCK CHANNEL function. Unblock the channel. The channel may have been erased from the channel memory by the ADD/ERASE function. Reprogram the channel into channel memory or use the Channel Numbers to select the channel.
Multiple images (ghosts)	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> The station may have broadcast difficulties. Try another channel. An appliance near the TV may be causing interference. Move or turn off the appliance. Adjust the TINT and/or COLOR in the Picture menu. If you change the direction of the TV while the TV is on, the picture may suffer from color shading. Turn off the TV and allow it to cool for about 30 minutes; then turn it on again.
No stereo or SAP sound from an MTS broadcast	<ul style="list-style-type: none"> Make sure the MTS feature is set correctly.
The remote control does not operate	<ul style="list-style-type: none"> Make sure the TV/CABLE/VCR switch is set correctly. There may be an obstruction between the remote control and the TV. Remove the obstruction and retry the remote control. The remote control batteries may be dead. Replace the batteries.

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**Toshiba America
Consumer Products, Inc.**

HEAD OFFICE
82 Totowa Road
Wayne, NJ 07470

LATIN AMERICA DIVISION
1900 North West 84th Ave.
Miami, FL 33126 TEL: (305) 470-9355

**Toshiba de Mexico,
S.A. de C.V.**

Sierra Candela #111, 6to. Piso
Col. Lomas de Chapultepec
C.P. 11000 Del. Miguel Hidalgo
Mexico, D.F. TEL: (52) (55) 5249-6500 ext. 561

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