TOSHIBA

OWNER'S MANUAL Color Television

COLOR **S**TREAM®



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Owner's Record

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

Model number: 36A13

Serial number:

Using the emote Contro

Setting up your TV

Using the TV's Features

Dear Customer,

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

Safety Precautions

WARNING

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



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

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

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

NOTE TO CATV INSTALLERS IN THE USA

This is a reminder to call the CATV system installer's attention to Article 820-40 of the NEC, which provides quidelines 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.

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®

Important Safety Instructions

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

6) Clean only with a dry cloth.

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





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

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





Wide plug

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



13) Unplug this apparatus during lightning storms or when unused for long periods of time.



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

15) CAUTION: To reduce the risk of electric shock, do not use the polarized plug with an extension cord, receptacle,

or other outlet unless the blades can be inserted

completely to prevent blade exposure.

DANGER: RISK OF SERIOUS PERSONAL 17) **INJURY, DEATH, OR EQUIPMENT**

Installation

warnings when installing your TV:

Communications Commission.

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.

Installation, Care, and Service

Follow these recommendations and precautions and heed all

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

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



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



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

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



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









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



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



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

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

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

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

Care

29)

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



WARNING: RISK OF ELECTRIC SHOCK!

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

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

Service

34)

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



35) If you have the TV serviced:

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



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

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Introduction

- 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.
- Write your model and serial 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 back and front panels provide all the inputs you will need to connect other equipment to your TV.

Front of TV



Back of TV



Selecting a location for your TV

- 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.



Introduction

Note: Cables are not supplied with your TV.

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

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 inputs, use component video cables *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*.)

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:

- 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.

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).

For better quality, if your VCR has S-video, you can use an S-video cable (plus the standard audio cables) instead of the standard video cable. Do not connect a standard video cable and an S-video cable to VIDEO-1 at the same time or the picture performance will be unacceptable.





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S-video cable

Component video cables

CAUTION: Do not plug in any power cords

until you have finished connecting all equipment.

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Coaxial (antenna) cable

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

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.

You will need:

· two coaxial cables

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.

7

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 basic channel

Stereo VCR

VIDEO

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AUDIC

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TV

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IN from ANT

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VIDEO-1 VIDEO-2

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OUT to TV

СНЗ СН4

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OUT

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ANT

S-VIDEO

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

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).

For better quality, if your VCR has S-video, you can use an S-video cable (plus the standard audio cables) instead of the standard video cable. Do not connect a standard video cable and an S-video cable to VIDEO-1 at the same time or the picture performance will be unacceptable.

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OUT

IN

Cable

Box

OUT

OUT

Converter

Cable

Signal

Splitter

IN

From

Cable

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:

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

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).

For better picture quality, if your device has S-video, you can use an S-video cable (plus the standard audio cables) instead of the standard video cable. Do not connect a standard video cable and an S-video cable to VIDEO-1 at the same time or the picture performance will be unacceptable.



Connecting a DVD player with component video and a VCR

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

With this connection you can:

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

You will need:

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

Note:

To watch the VCR, the TV must select VIDEO 1 (see page 16). To watch the DVD player, the TV must select VIDEO 2 (see page 16).



DVD player with component video

Connecting two VCRs

With this connection you can:

- watch TV channels and videotapes
- record TV channels
- record one TV channel while watching the same or another channel
- record (dub/edit) from one VCR to the other VCR while watching a videotape

You will need:

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

Note:

Do not connect the same VCR to both the OUT <u>and</u> the IN connections on the TV at the same time.

To record (dub/edit) from VCR 1 to VCR 2, the TV must select VIDEO 1 (see page 16), and VCR 2 must select LINE IN.

For better picture quality, if VCR1 has S-video, you can use an S-video cable (plus the standard audio cables) instead of the standard video cable. Do not connect a standard video cable and an S-video cable to VIDEO-1 at the same time or the picture performance will be unacceptable. The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.



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.



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

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

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.

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.

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 or a Toshiba device that the remote control is not programmed to operate, you must first program the remote control to recognize your device.
- 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.





Programming the remote control

Your Toshiba TV remote control is preprogrammed to operate most Toshiba brand VCRs and cable TV converters. To program your TV remote control to operate a non-Toshiba device or Toshiba device it is not programmed to operate, 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.

Device codes

In some rare cases, you may not be able to operate your other device with your 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 that came with your other device.

Cable TV converter codes

VCR codes

Adventura	019	MTC 019, 259	ABC
Aiko		Multitech 019, 091	032, 033, 036, 066
Aiwa		NAD 077	Antronix 041
	060, 068, 080, 125, 261	NEC	Archer 041, 058, 172
American High		Nikko 056	Belcor 075
Asha		Noblex 259	Cable Star 075
Audiovox		Olympus 054	Cabletenna 041
Beaumark		Optimus 056, 067, 077, 123	Cableview 041
Bell & Howell		Optonica 081	Century 172
Brandt		Orion 498	Citizen 172
	140, 203, 230, 314, 380	Panasonic 054, 096, 181, 244, 473	Colour Voice 044, 050
Calix		Penney	Comtronics 059, 079
Canon		073, 259	Contec 038
Capehart		Pentax	Dae Ryung 027
Carver		Philco 054	Eastern 021
CCE		Philips	Focus 419
Citizen		Pilot 056	Garrard 172
Colt		Pioneer 077, 086	GC Electronics 075
Craig		Portland 039	Gemini 034, 089
Curtis Mathes		Protec 091	General Instrument 030, 295
		Pulsar 058	Goldstar 059, 163
Cybernex		Quarter	Hamlin 028, 039, 053, 278,
Daewoo			292
Daytron		Quarts	Hitachi 030
Dynatech		Quasar	Hytex 026
Electrohome		Radio Shack 019, 056, 344	Jasco 172
Electrophonic	056	Radix 056	Jerrold 022, 030, 031, 033,
Emerex		Randex 056	034, 066, 295
Emerson	019, 021, 056, 062, 080,	RCA 061, 079, 084, 096, 124,	Macom 052
	087, 140, 203, 227, 228,	125, 168, 221	Magnavox
	230, 231, 297, 313, 314,	Realistic 019, 054, 056, 065, 066,	Memorex 019
	380, 498	067, 081, 085, 123, 259	Movie Time 175
Fisher		Ricoh 053	NSC 089, 175
Fuji		Runco 058	Oak 026, 038, 267
Funai	019, 344	Samsung 064, 259	Panasonic 019, 040, 126
Garrard		Sanky 058, 067	Paragon 019
GE	054, 079, 084, 221	Sansui 060, 086	Philips 044, 046, 047, 048,
Goldstar		Sanyo 065, 066, 123, 259	049, 050, 172
Gradiente	019	Scott 062, 064, 140, 203, 229,	Pioneer 042, 163, 552
Harley Davidson	019	230, 231	Popular Mechanics 419
Harman/Kardon	057, 094	Sears 054, 056, 061, 065, 066	Pulsar 019
Harwood		073, 085, 123, 124	RCA 040
Headquarter		Sharp 067, 081	Recoton 419
HI-Q		Shintom 091	Regal 039, 278, 292
	060, 061, 084, 124, 185,	Shogun 259	Regency 021
	254	Singer 091	Rembrandt 030, 089
Jensen	060	Sony 051, 052, 053, 054	Runco 019
JVC		STS	Samsung 059, 163
Kenwood		Sylvania 019, 054, 062, 100, 129	Scientific Atlanta 025, 027, 036, 296
KLH		Symphonic 019, 344	Signal 034, 059
Kodak		Tatung 060	Signature
Lloyd		Teac 019, 060	SL Marx 059
Lloyd's		Technics	Sprucer 040
Logik		Teknika	Standard Components 174
LXI		Telefunken	Starcom 022, 034, 066
	054, 058, 100, 129, 168	TMK 227, 259	Stargate 034, 059
Magnin		Toshiba	Starguest
		385	Sylvania 020
Marantz			Teleview 059
Marta		Totevision	Texscan 020
Matsushita		Unitech	Tocom 031, 032, 078
MEI			Toshiba 019
wiemorex	019, 054, 056, 058, 065,	Vector Research 057, 059	Tusa 034
1404	066, 067, 123, 259	Video Concepts 059, 064, 080	Unika 041, 172
MGA		Videosonic 259	United Artists
MGN Technology		Wards 019, 054, 061, 066, 067,	United Cable 022
Minolta		081, 091, 168, 231, 259	Universal 041, 058, 075, 172
Mitsubishi	062, 080, 086, 094, 192,	XR-1000 019, 054, 091	Viewstar
	233, 261	Yamaha 057	Zenith 019
Motorola	054, 067	Zenith 052, 053, 058	Zentek 419
	I		•

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 $\mathbf{\nabla}$ or \mathbf{A} to select the function you want to adjust in the menu (the ∇/\triangle buttons function as CHANNEL ∇/\triangle buttons when no menu is on-screen).
- 3. Press \blacktriangleleft or \triangleright to adjust the selected function (the $\blacktriangleleft/\triangleright$ buttons function as VOLUME $\triangleleft / \triangleright$ 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.



Menu system overview



TV Front Panel



Changing the on-screen display language

You can 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**.

CONFIGURATION

//CABLE: ROGRAMME CAN

(**††!**)

- 2. Press \triangleleft or \triangleright until the SET UP menu appears.
- 3. Press \blacktriangle or \checkmark to highlight LANGUAGE.
- 4. Press \triangleleft or \triangleright 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.

тv
VIDEO 1
VIDEO 2
VIDEO 3
TO SELECT PUSH TV/VIDEO

To verify the signal source:

Press RECALL.

Programming channels into the TV's memory

When you press **CHANNEL • v** 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 \triangleleft or \triangleright to highlight the SET UP menu.



MENU/

ENTEF

EXIT

 $\blacksquare \blacksquare \blacksquare \blacksquare$

TOSHIBA CT-90037

STOP PLAY

V 41

CHANNEL ▲▼

TV/VIDEO



- 3. Press ▲ or ▼ to highlight TV/CABLE.
- 5. Press ▼ to highlight CH PROGRAM.



- 6. Press *◄* or *▶* to start automatic channel programming ("CH PRO-GRAM" 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.
- 7. When automatic channel programming is complete, the message "CH Programming Completed" appears.
- 8. Press **CHANNEL** \blacktriangle 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 or erase a channel in 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.
- 2. Press MENU.
- 3. Press \triangleleft or \triangleright to highlight the SET UP menu.
- 4. Press \blacktriangle or \checkmark to highlight ADD/ERASE.



- 5. Press *◄* or *▶* to highlight ADD or ERASE, whichever function you want to perform.
- 6. Press MENU.
- 7. 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).



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** ▼▲ 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** $\blacktriangle \lor$ 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 *◄* or *▶* to highlight the SET UP menu.
- 4. Press \blacktriangle or \checkmark to highlight FAVORITE CH.



- 5. Press *◄* or *▶* to display the FAVORITE CH menu.
- 6. Press *◄* or *▶* to highlight SET.
- 7. Press \checkmark to add the current channel to the list.
- 8. Press **EXIT**.



9. Repeat steps 1–8 for up to 12 channels. *(Continued on next page)*



To select your favorite channels:

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

Note: The FAV CH ▼▲ 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 \triangleleft or \triangleright to highlight the SET UP menu.
- 4. Press \blacktriangle or \checkmark to highlight FAVORITE CH.
- 5. Press ◀ or ► to display the FAVORITE CH menu.
- 6. Press \blacktriangleleft or \triangleright to highlight CLEAR.



7. Press ▼ 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 \triangleleft or \triangleright to highlight the SET UP menu.
- 3. Press ▲ or ▼ to highlight V-CHIP CONTROL.
- 4. Press \blacktriangleleft or \blacktriangleright to display the new PIN code entering screen.





Note:

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

Using the TV

Features

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.

<u>SET UP</u>				
ENABL	E BLOCK	ING [Y]	N	
SET RAT			•	
	CKING OF	TIONS	•	
NEW PI			•	
BLOCK	HANNEL		•	
	1 6	ELECT [4	•1	

- 6. 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

- 1. Press MENU.
- 2. Press \triangleleft or \triangleright 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 Number buttons (0–9) to enter your existing PIN code. After the code is entered, the V-Chip Control menu appears.
- 6. Press \blacktriangle or \checkmark to highlight NEW PIN CODE.
- 7. Press **◄** or **▶** to display the New PIN Code entering screen.



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



If you forget your PIN code

- 1. Press **MENU**.
- Press

 or

 to highlight the SET UP menu.
- 3. Press ▲ or ▼ to highlight V-CHIP CONTROL.
- 4. Press d or b to display the PIN code entering screen.
- 5. While the PIN code entering screen is displayed, press **RECALL** four times within five seconds. The "Blocking Is Reset" screen appears.



- 6. Use the **CHANNEL NUMBERS** (0–9) to enter a new PIN code. After the new code is entered, the V-Chip Control menu appears.
- 7. 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.



TV 6

	Ratings	definitions			
MPAA R	MPAA Ratings TV Ratings				
X NC17 R PG13 PG	For adults only. Not intended for anyone 17 or under. Restricted. Under 17 requires an accompanying parent or adult guardian. Parents strongly cautioned. Some material may not be appropriate for children under 13. Parental guidance suggested. Some material may	MA	Mature audience only. This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.DialogIntensely suggestive dialog LanguageLanguageCrude or indecent languageSexExplicit sexual activityViolenceGraphic violence		
G	 A arental guidance suggested. Some material may not be appropriate for children. General audience. Appropriate for all ages. / Ratings 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. For all children. Programs rated Y are designed to be appropriate for all children. 	14 PG	Parents strongly cautioned. This program contains some material that many parents would find unsuitable for children under 14 years of age.DialogFrequent suggestive dialog LanguageLanguageFrequent coarse languageSexIntense sexual situationsViolenceIntense violenceParental guidance suggested. This program contains material that parents may find unsuitable for younger children.DialogSome suggestive dialog LanguageLanguageOccasional coarse language SexSome sexual situationsViolenceModerate 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 rating:

- 1. Press **MENU**.
- 2. Press \triangleleft or \triangleright to highlight the SET UP menu.
- 3. Press ▲ or ▼ to highlight V-CHIP CONTROL.
- 4. Press \blacktriangleleft or \triangleright 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 \blacktriangle or \checkmark to highlight SET RATING.
- 9. Press \triangleleft or \triangleright to display the Set Rating menu.
- 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 will be marked with "V." 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.

THIS PROGRAM HAS BEEN BLOCKED! TV-PG L V EXCEEDS SET LIMITS PUSH MUTE TO ENTER PIN BLOCKING IS ACTIVE PLEASE ENTER PIN CODE TO TEMPORARILY UN-BLOCK

SELECT [0-9] END [EXIT]



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 \triangleleft or \triangleright to display the unrated movie/program blocking menu.
- 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.

V's

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 \triangleleft or \triangleright to highlight the SET UP menu.
- 4. Press \blacktriangle or \checkmark to highlight V-CHIP CONTROL.
- 5. Press \blacktriangleleft or \triangleright 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 \triangleleft or \triangleright 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 \triangleleft or \triangleright to highlight the SET UP menu.
- 3. Press ▲ or ▼ to highlight V-CHIP CONTROL.
- 4. Press \triangleleft or \triangleright 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, tune the TV to a channel that is not blocked before turning off the TV.

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 \blacktriangle or \checkmark 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 \triangleright .

4. Press \blacktriangleleft or \triangleright to adjust the level, as described in the following table:

Selection	Pres	sing 🕨
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.



Press ◄ or ► to highlight the mode you prefer, as described in the following table:

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Mode	de 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.



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 \triangleleft or \triangleright to highlight the SETUP menu.
- 3. Press \blacktriangle or \checkmark to highlight TIMER.
- 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 TV's Features

STEREO TV-PG L V	
	TV 6

SET UP

TIMER:

DEMO: FAVORITE CH

MOVE [🔻 🔺]

30 MIN

START [◀ ▶]

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 \triangleleft or \triangleright to highlight the CLOSED CAPTION menu.
- 3. Press \blacktriangle or \checkmark to highlight CC.



- 4. Press \blacktriangleleft or \triangleright 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 off the Closed Caption feature, highlight OFF in the Closed Caption menu.



Note:

following situations:

• when a videotape has been dubbed

• when the signal reception is non-standard

• when the signal reception is weak

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** $\triangleleft \triangleright$.

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 \blacktriangle or \blacktriangledown to highlight MTS.
- Press ◄ or ► to highlight STR (stereo).
 Note: If the stereo sound is noisy, select MONO to reduce the noise.

			CC
AUDIO			
MTS:	[STR] SAP I	MONO	
BASS	50		
TREBLE	50		
BALANCE	0		
SURROUND:	[ON] OFF		
MOVE [🔻 🔺]	SELECT [4	•1	

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 \triangleleft or \triangleright to highlight the AUDIO menu.
- 3. Press \blacktriangle or \checkmark to highlight MTS.
- 4. Press *d* or *b* 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 \triangleleft or \triangleright to adjust the level:
 - < makes the sound quality weaker or increases the balance in the right channel, depending on the item selected.
 - The 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 \blacktriangle or \checkmark to highlight SURROUND.
- 5. Press \triangleleft or \triangleright 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).

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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).



Using the TV's

reatures

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 \triangleleft or \triangleright to highlight the SET UP menu.
- 3. Press \blacktriangle or \checkmark to highlight DEMO.



- 4. Press \blacktriangleleft or \blacktriangleright 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	super b hyper l	
Power source	120V AC, 60Hz	
Power consumption	92W (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/VIDEO OUTPUT VIDEO: 1V(p-p), 75 ohm, negative sync. AUDIO: 150mV(rms) (30% modulation equivalent, 4.7k ohm) 	
Dimensions	Height 2	38-3/16 inches (970mm) 29-9/16 inches (751mm) 24-1/4 inches (616mm)
Mass	193 lbs (87.5kg)	
Supplied accessories	Remote Control with 2 size "AA" batteries	

Design and specifications are subject to change without notice.

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	 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	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 MTS feature is set correctly. 		
Poor sound, picture OK	 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	 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	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	• 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	• 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	 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)	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. 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	• Make sure the MTS feature is set correctly.		
The remote control does not operate	 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. 		

<u>Appendix</u>

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.

ALL WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A., INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THE LIMITED WARRANTIES SET FORTH ABOVE. WITH THE EXCEPTION OF ANY WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A. AS HEREBY LIMITED, THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, AGREEMENTS, AND SIMILAR OBLIGATIONS OF TACP OR THI WITH RESPECT TO THE REPAIR OR REPLACEMENT OF ANY PARTS. IN NO EVENT SHALL TACP OR THI BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES.

No person, agent, distributor, dealer, or company is authorized to change, modify, or extend the terms of these warranties in any manner whatsoever. The time within which action must be commenced to enforce any obligation of TACP or THI arising under this warranty or under any law of the United States or of any state thereof is hereby limited to 90 days from the date you discover, or should have discovered, the defect. This limitation does not apply to implied warranties arising under the law of any state of the U.S.A.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH MAY VARY FROM STATE TO STATE IN THE U.S.A. SOME STATES OF THE U.S.A. DO NOT ALLOW LIMITATIONS ON THE DURATION OF AN IMPLIED WARRANTY, LIMITATIONS ON THE TIME WITHIN WHICH AN ACTION MAY BE BROUGHT, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES; THEREFORE, THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU UNDER SUCH CIRCUMSTANCES.

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

THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS TELEVISION AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

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

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

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

TCL warrants this television and its parts against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOR. TCL Authorized Service Depot personnel will come to your home when warranty service is required. Depending on the type of repair required, either the service will be performed in your home or the set will be taken to the TCL Authorized Service Depot for repair and returned to your home at no cost to you. IN-HOME SERVICE ONLY APPLIES WITHIN 100 KILOMETERS OF AN AUTHORIZED TCL SERVICE DEPOT.

Limited Two (2) Year Warranty on Picture Tube*

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

Rental Units

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

*Commercial Units

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

Owner's Manual

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

Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

- (1) You must provide your bill of sale or other proof of purchase.
- (2) All warranty servicing of this television must be made by an Authorized TCL Service Depot.
- (3) The warranties from TCL are effective only if the television is purchased in Canada from an authorized TCL dealer and operated in Canada.

- (4) Labor service charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by these warranties. Reception problems caused by inadequate antenna systems are your responsibility.
- (5) Warranties extend only to defects in materials or workmanship as limited above and do not extend to any television or parts that have been lost or discarded by you or to damage to television or parts caused by misuse, accident, Acts of God (such as lightning or fluctuations in electric power), improper installation, improper maintenance, or use in violation of instructions furnished by TCL; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible.

How to Obtain Warranty Services

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

- To find the nearest TCL Authorized Service Depot, visit TCL's web site: www.toshiba.ca.
- (2) Present your bill of sale or other proof of purchase to the Authorized Service Depot. Authorized TCL Service Depot personnel will come to your home when warranty service is required. Depending on the type of repair required, either the service will be performed in your home or the set will be taken to the Authorized Service Depot for repair and returned to your home at no cost to you. IN-HOME SERVICE ONLY APPLIES WITHIN 100 KILOMETERS OF AN AUTHORIZED TCL SERVICE DEPOT.

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

ALL WARRANTIES IMPLIED BY THE LAW OF ANY PROVINCE OF CANADA, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THE LIMITED WARRANTIES SET FORTH ABOVE. WITH THE EXCEPTION OF ANY WARRANTIES IMPLIED BY THE LAW OF ANY PROVINCE OF CANADA AS HEREBY LIMITED, THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, AGREEMENTS, AND SIMILAR OBLIGATIONS OF TCL WITH RESPECT TO THE REPAIR OR REPLACEMENT OF ANY PARTS. IN NO EVENT SHALL TCL BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES.

No person, agent, distributor, dealer, or company is authorized to change, modify, or extend the terms of these warranties in any manner whatsoever. The time within which action must be commenced to enforce any obligation of TCL arising under this warranty or under any law of Canada or of any province thereof, is hereby limited to 90 days from the date you discover, or should have discovered, the defect. This limitation does not apply to implied warranties arising under the law of any province of Canada.

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

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