

Appendix

Introduction

Connecting your TV

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:

20HL85

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Always read and understand the **PRODUCT WARNINGS and USER DIRECTIONS** that are contained in this manual before

attempting to use your television, to help ensure its safe use. Always store this manual near your television for convenient future reference.

Dear Customer,

Thank you very much for purchasing this Toshiba television.

You must carefully read and understand all of the safety instructions contained in this manual before you attempt to use this product in order to avoid potential hazards that could cause bodily injury or property damage or could damage your Television.

We hope that you are completely satisfied with your Toshiba television and that it will give you long and enjoyable service. We look forward to providing you with additional Toshiba products to serve all of your entertainment needs in the future.

Safety Precautions

WARNING: TO REDUCE THE RISK OF FIRE OR



SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the annliance

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.

WARNING: Handling the cord on this product or cords associated with accessories sold with this product will expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm. *Wash hands after handling.*

WARNING: Always use a Toshiba-approved wall bracket to wall mount this television. The use of any wall bracket other than a Toshiba-approved wall bracket to wall mount this television could result in serious bodily injury and/or property damage. For more information call TCL's Customer Service Department at 1-800-268-3404.

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NOTE TO CATV INSTALLERS

This is a reminder to call the CATV system installer's attention to Article 820-40 of the U.S. NEC, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to grounding system of the building, as close to the point of cable entry as practical. For additional antenna grounding information, see item 17 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!



CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS POLARIZED PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.



bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

8A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

9. VENTILATION

Slots and openings in the cabinet back or bottom are provided for ventilation, and to ensure reliable operation of the unit, and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the unit on a bed, sofa, rug, or other similar surface. This unit should never be placed near or over a radiator or heat source. This unit should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

10. POWER SOURCE

This unit should be operated only from the type of power source indicated on the rating plate. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company.

11. GROUNDING OR POLARIZATION

This unit is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet.

12. POWER-CORD PROTECTION

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Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

13. LIGHTNING

To protect your unit from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the unit due to lightning and power line surges.



Introductior



PORTABLE CART WARNING (symbol provided by RETAC)

RISK OF DEATH, SERIOUS PERSONAL INJURY, OR EQUIPMENT DAMAGE.















IMPORTANT SAFEGUARDS

14. POWER LINES

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall onto or against such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits, as contact with them might be fatal.

15. OVERLOADING

Do not overload wall outlets and extension cords, as this can result in a risk of fire or electric shock.

16. OBJECT AND LIQUID ENTRY

Do not push objects through any openings in this unit, as they may touch dangerous voltage points or short out parts that could result in fire or electric shock. Never spill or spray any type of liquid into the unit.

17. OUTDOOR ANTENNA GROUNDING

If an outside antenna or cable system is connected to the unit, be sure the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges, Section 810 of the National Electrical Code (NEC), ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

EXAMPLE OF ANTENNA GROUNDING AS PER THE NATIONAL ELECTRICAL CODE

NEC-NATIONAL ELECTRICAL CODE

S2898A



18. SERVICING

Do not attempt to service this unit yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel. For example:

- a. When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the unit. b.
- If the unit has been exposed to rain or water. c.
- If the unit does not operate normally by following the operating instructions. Adjust only those d controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.
- If the unit has been dropped or the cabinet has been damaged. e.
- When the unit exhibits a distinct change in performance, this indicates a need for service. f.

19. REPLACEMENT PARTS

When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

20. SAFETY CHECK

Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.

21. HEAT

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.



IMPORTANT SAFEGUARDS

22. CONNECTING

When you connect the product to other equipment, turn off the power and unplug all of the equipment from the wall outlet. Failure to do so may cause product damage. Read the owner's manual of the other equipment carefully and follow the instructions when making any connections.

23. HEADPHONES

When you use headphones, keep the volume at a moderate level. Using headphones continuously at a high volume may cause hearing damage.

24. LCD

Do not press on or allow anything to impact the surface of the viewing screen (LCD panel). The LCD panel inside the TV is fragile and subject to damage. The LCD Panel contains glass and a toxic liquid. If the liquid comes in contact with your mouth or eyes, or your skin is cut by broken glass, rinse the affected area thoroughly with water and consult your doctor.

• ALWAYS contact a service technician to inspect the TV any time it has been damaged or dropped.

ON DISPOSAL

This product contains mercury. Disposal of mercury may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industrial Alliance: www.eiae.org.

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Important notes about your LCD TV

The following symptoms are technical limitations of LCD Display technology and are not an indication of malfunction; therefore, Toshiba is not responsible for perceived defects resulting from these symptoms.

- An afterimage (ghost) may appear on the screen if a fixed, non-moving image is displayed for a long period of time. The afterimage is not permanent and will disappear in a short period of time.
- 2) The LCD panel contained in this TV is manufactured using an extremely high level of precision technology; however, there may be an occasional pixel (dot of light) that does not operate properly (does not light, remains constantly lit, etc.). This is a structural property of LCD technology, is not a sign of malfunction, and is not covered under your warranty. Such pixels are not visible when the picture is viewed from a normal viewing distance.

Note: Interactive video games that involve shooting a "gun" type of joystick at an on-screen target may not work with this TV.

Precautions

Notes on handling

- Do not subject the LCD panel to physical shock, such as dropping it. It may cause unit damage and malfunction.
- Retain the original shipping carton and packing materials. For maximum protection when shipping, repack the unit as it was originally packed at the factory.
- Do not use volatile liquids, such as insecticide, near the unit. Do not leave rubber or plastic products in contact with the unit for prolonged periods of time. Doing so will leave marks on the finish.
- The top and rear panels of the unit may become warm after a long period of use. This is not a malfunction.
 When the unit is not in use, turn off the power.
- If you do not use the unit for a long period, the unit may not function properly in the future. Turn on and use the unit occasionally.

Notes on locating the unit

- When you place this unit near a TV, radio, or VCR, the playback picture may become poor and the sound may be distorted. In this case, place the unit away from the TV, radio, or VCR.
- To avoid damage to this product, never place or store the TV in direct sunlight; hot, humid areas; or areas subject to excessive dust or vibration.
- Always place the TV on the floor or a sturdy, level stable surface that can support the weight of the unit. Use a sturdy tie between the TV's rear hooks and the rear wall, pillar, etc., or screw the TV to the stand using the TV's rear screw hole or a safety band (see illustration).



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Notes on cleaning

Clean only with a soft, dry, lint-free cloth.

Notes on LCD

- The fluorescent tube which illuminates the panel from the inside will deteriorate with use. When the LCD becomes dim, flickers, or does not illuminate, contact your dealer for replacement.
- The brightness of the LCD monitor differs slightly depending on the viewing angles. Adjust the angle to obtain the best viewing. (The recommended angle is 90 degrees to the monitor.)

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Introduction

Exploring your new TV

You can operate your TV by using the buttons on the top panel or the remote control. The side and back panels provide the inputs to connect other equipment to your TV.



Selecting a location for the TV

- Place the TV on the floor or on a sturdy platform 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 may damage the TV.

Connecting your TV

If you haven't connected electronic equipment before, or you have been frustrated in the past, you may wish to read this section. (Cables are not supplied.)

- A coaxial cable is the standard cable that comes in from your antenna or cable converter box. Coaxial cables use "F" connectors.
- Standard A/V (audio/video) cables are usually color coded according to use: yellow for video and red and white for audio. The red audio cable is for the stereo right channel, and the white audio cable is for the stereo left (or mono) channel. If you look at the rear panel of the TV, you will see that the terminals are color coded in the same manner as the cables.
- S-video cables provide better picture performance than standard video cables. S-video cables can only be used with S-video compatible components.
- Component video cables provide better picture performance than S-video cables. Component video cables can only be used with component video compatible components.
- HDMI (High Definition Multimedia Interface) cable is for use with video equipment that has HDMI output (see page 15).



Connecting a VCR

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



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Note:

To prevent equipment damage, do not plug in any power cords until you have finished connecting all equipment.

You will need:

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

Note:

If using a mono VCR, connect L/Mono to VCR Audio OUT using only one audio cable. For better picture quality, if your VCR has S-video, you can use an S-video cable instead of the standard video cable. Do not connect a standard video cable and an S-video cable to VIDEO-1 simultaneously.

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 TV's Featur

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Connecting a cable converter box or antenna

This television has an extended tuning range and can tune most cable channels without using a cable company supplied converter box. Some cable companies offer "premium pay channels" in which the signal is scrambled. Descrambling these signals for normal viewing requires the use of a descrambler device, which is generally provided by the cable company.

Option 1: For Subscribers to Basic Cable TV Service

For basic cable service not requiring a Converter/Descrambler box, connect the incoming 75 ohm Coaxial Cable directly to the Antenna Jack on the back of the television.

Option 2: For Subscribers to Scrambled Cable TV Service

If you subscribe to a cable service that requires the use of a Converter/ Descrambler box, connect the incoming cable to the Converter/ Descrambler box and connect the output of the box to the Antenna Jack on the back of the television. Follow the connections shown below. Set the television to the output of the Converter/Descrambler box (usually channel 3 or 4) and use the Converter/Descrambler box to select channels.

Option 3: For Subscribers to Unscrambled Basic Cable with Scrambled Premium Channels

If you subscribe to a cable service in which basic cable channels are unscrambled and premium channels require the use of a Converter/ Descrambler box, you may wish to use a two-set signal splitter (sometimes called a "two-set coupler") and an A/B Switch box from the cable installer or an electronics supply store. Follow the connections shown below. With the switch in the "B" position, you can directly tune any nonscrambled channels on your TV. With the switch in the "A" position, tune your TV to the output of the Converter/Descrambler box (usually channel 3 or 4) and use the box to tune scrambled channels.

Note:

When you use a converter box with your TV, there may be features that you cannot program using the remote control, such as labeling channels, blocking channels, and programming your favorite channels.



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Connecting a DVD player/satellite receiver and a VCR

This connection allows you to watch DVD/satellite, VCR, or TV programs. You can record from the satellite receiver and TV, as well as record one TV channel while watching another channel.

From satellite



You will need: • three coaxial cables

Note:

· one S-video cable

• two sets of standard A/V cables

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

This connection allows you to watch DVD, VCR, or TV programs and record TV programs. You can record from one source while watching a program from another source. Your TV is capable of using ColorStream (component video). 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.

Connecting your TV



You will need:

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

Note:

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

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

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

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



You will need:

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

Note:

For HDMI connection, see page 15. The ColorStream HD jacks and HDMI jacks can be used with Progressive (480p, 720p) and Interlaced (480i, 1080i) scan systems. If your DTV receiver does not have component video, use the S-video and standard audio connections instead. Do not connect both an S-video and a standard video cable to VIDEO1 at the same time or the picture performance will be unacceptable.

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Connecting a camcorder

This connection allows you to watch videos recorded on a camcorder.



You will need:

• one set of standard AV cables

You will need:

- one S-video cable
- · one pair of standard audio cables

Note:

For better picture quality, if your camcorder has S-video, you can use an S-video cable (plus the standard audio cables) instead of a standard video cable.

Do not connect both a standard video cable and an S-video cable at the same time, or the picture performance will be unacceptable.

Connecting an HDMI[™] or a DVI device to the HDMI input

The HDMI^[1] input on your TV receives digital audio and uncompressed digital video from an HDMI device or uncompressed digital video from a DVI^[2] device.

This input is designed to accept HDCP^[3] program material in digital form from EIA/CEA-861/861B–compliant^[4] consumer electronic devices (such as a set-top box or DVD player with HDMI or DVI output).

The HDMI input is designed for best performance with high definition video signals. It will accept and display 480i, 480p, 720p and 1080i signals.

Note: The HDMI jack is not intended for connection to and should not be used with a personal computer. For PC connection, see page 16.

To connect an HDMI device, you will need: • one HDMI cable (type A connector)

For proper operation, it is recommended that you use as short an HDMI cable as possible. You should not encounter difficulty if you use an HDMI cable that is shorter than 16.4 ft (5m).

HDMI cable transfers both video and audio. Separate analog audio cables are not required (see illustration below).

You must set the HDMI audio input setting to "HDMI" in the AUDIO menu (see page 38).

Some CDVs (Video CDs) may not output digital audio signals. In that case, you may hear sound by connecting analog audio cables. If you do use analog audio cables for this reason, you will need to set the HDMI audio input setting to "DVI" to hear the analog audio (see page 38). **Note:** If you connect an HDMI device and analog audio cables and play media with digital audio output, to hear digital audio you must set the HDMI audio input setting to "HDMI" (page 38).

HDMI device



HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing, LLC.

- [1] HDMI = High-Definition Multimedia Interface.
- [2] DVI = Digital Video Interface.
- [3] HDCP = High-bandwidth Digital Content Protection.
 [4] EIA/CEA-861/861B compliance covers the
- [4] EIA/CEA-861786TB compliance covers the transmission of uncompressed digital video with highbandwidth digital content protection, which is being standardized for reception of high-definition video signals.

Because this is an evolving technology, it is possible that some devices may not operate properly with the TV.

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

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

To connect a DVI device, you will need: • one HDMI-to-DVI adapter cable

(HDMI type A connector)

For proper operation, the length of an HDMI-to-DVI adapter cable should not exceed 9.8 ft (3m). The recommended length is 6.6 ft (2m).

· one pair of standard analog audio cables

An HDMI-to-DVI adapter cable transfers only video. Separate analog audio cables are required (see illustration below).

You must set the HDMI audio input setting to "DVI" in the AUDIO menu (see page 38).

DVI device



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Connecting a PC (Personal Computer)

Before you connect this TV to your PC, change the adjustment of your PC's Resolution and Refresh rate. See "Monitor Display modes" at right.

Connect one end of a (male to male) VGA cable to the video card of the computer and the other end to the VGA connector PC at the side of the TV. Fix the connectors firmly with the screws on the plug. In case of a Multimedia computer, connect the audio cables to the audio outputs of your Multimedia computer and to the AUDIO L and R connectors of the PC IN jacks of the TV.

Set the video input source to PC mode (see "Selecting the video input source" on page 29 and "Picture/Audio adjustments in the PC mode" on page 39). The TV can be used as a computer monitor.



Power source

Power connection

To use AC power

1. Connect the AC cord to the AC adapter.

2. Connect the AC adapter plug into the TV's DC input jack. 3. Connect the AC cord into a wall outlet.



You will need: • one VGA cable

Monitor Display modes

| MODE | Resolution | Refresh rate |
|------|------------|--------------|
| VGA | 640x480 | 60Hz |
| SVGA | 800x600 | 56.3Hz |
| SVGA | 800x600 | 60.3Hz |
| XGA | 1024x768 | 60Hz |
| WXGA | 1280x720 | 60Hz |
| WXGA | 1280x768 | 60Hz |
| | | |

Notes:

- The current signal source does not display when you return to TV mode.
- The on-screen displays will have a different appearance in PC mode than in TV mode.
- When you select WXGA mode, set the WXGA INPUT to ON in the PC PICTURE menu (see page 39.)

Notes:

- Make sure to insert the plug of each cord securely.
- During use the AC adapter becomes warm. This is not a malfunction.

WARNING:

- Do not connect this unit to the power source using any device other than the supplied AC adapter or power cord. This could cause fire, electric shock, or damage.
- Do not use with a voltage other than the power voltage displayed. This could cause fire, electric shock, or damage.
- Never lift the AC adapter by holding the AC cord. The AC adapter may fall, causing personal injury or equipment damage.

CAUTION:

- Do not use the AC adapter if it is covered by a cloth etc., or pressed into a narrow area. This results in poor dissipation of heat and may cause fire, electric shock, or damage.
- When this unit is not used for a long time, (e.g., away on a trip) in the interest of safety, be sure to unplug it from the wall outlet.
- Do not plug/unplug the plug when your hands are wet. This may cause electric shock.
- If you need to replace the supplied AC adapter or AC cord, the specified AC adapter and AC cord must be used. Contact the dealer that you purchased the unit from.

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Setting up your TV Using the remote control

Preparing the remote control for use

With the remote control, you can operate your TV, most cable TV converters/satellite receivers, VCRs, and DVD players together, even if they are different brands. If you will be using your TV with a Toshiba satellite receiver, VCR, or DVD player, your remote control is already programmed and ready to use. If you own different brands of cable TV converters/satellite receivers, VCRs, and/or DVD players, you must first program your remote control. (See "Programming the remote control to operate your other devices," on page 18.)

Installing the remote control batteries

To install the batteries:

1. Open the battery cover on the back of the remote control.



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



3. Close the battery cover on the remote control until the lock snaps.

Using the remote control to operate your other devices



Note:

The TV remote control may not operate your VCR, DVD player, or cable TV converter. Refer to the owner's manual supplied with your other devices to see which features may be available. Additionally, the remote control for this TV may not support certain features available on the original remote controls for your other devices, in which case it is suggested that you use the original remote control for the applicable device.

Caution:

· Never throw batteries into a fire.

Notes:

- Be sure to use AAA size batteries.
- Dispose of batteries in a designated disposal area.
- Batteries should always be disposed of with the environment in mind. Always dispose of batteries in accordance with applicable laws and regulations.
- If the remote control does not operate correctly, or if the operating range becomes reduced, replace batteries with new ones.
- When necessary to replace batteries in the remote control, always replace both batteries with new ones. Never mix battery types or use new and used batteries in combination.
- Always remove batteries from remote control if they are dead or if the remote control is not to be used for an extended period of time. This will prevent battery acid from leaking into the battery compartment.

Connecting your TV

ntroduct

J3U70221A(E)P17-24

To control a DVD player:

Program the remote control to recognize the brand of your DVD player (see "Programming the remote control to operate your other devices" below.) The buttons shown at right will then control the DVD player. Press "DVD" first.

| Power Input (TV) Display Mute (TV) Number buttons | |
|--|--|
| Volume +/- (TV) — DVD — Pic Size (TV) — | TV CBUSAT CH VOL VOL VOL VOL VOL VOL VOL VOL VOL VOL |
| DVD MENU | FAV |
| ENTER — DVD controls — DVD Skip/Search — | ENTER PAUSE PAUSE STOP STOP STOP STOP STOP STOP STOP STOP |
| Idd / ►►I TOP Menu — DVD Clear — | |
| 212 0.04 | TOSHIBA cTeas |

Programming the remote control to operate your other devices

This remote control is pre-programmed to operate most Toshiba satellite receivers, VCRs, and DVD players. To control a non-Toshiba device (or a Toshiba device that the remote control is not pre-programmed to operate), you must follow the steps below to program your remote control.

- Refer to the code tables (on pages 19 and 20) to find the corresponding code for your device.
 If more than one code is listed, try each one separately until you
 - find the one that works.
- If you are programming the remote control to operate your:
 Cable TV converter/satellite receiver: Press "CBL/SAT."
 - VCR: Press "VCR."
- DVD player: Press "DVD."
 While holding down DISPLAY, press the Channel Number buttons to enter the three-digit code for your device within 10 seconds.
 Note: If you do not enter the code within 10 seconds from step 3,
- *or if you enter the wrong code, this operation is canceled.*Point the remote control at the cable TV converter/satellite
- receiver, VCR or DVD player, and press POWER to test the code. • If the device responds, you entered the correct code.
 - If the device does not respond, repeat steps 1–4 using another code. Press "TV" to control the TV.
- For future reference, write down the codes you used:

Cable TV converter/satellite receiver code _____

VCR code

DVD player code ____

5.



Notes:

- When shipped from the factory, the remote control is set to operate your TV.
- Each time you replace the batteries, you must reprogram the remote control.
- Some newer VCRs are capable of working on either of two remote codes. These VCRs have a switch labeled "VCR1/VCR2." If your VCR has this kind of switch and does not respond to any of the codes for your VCR, set the switch to the other position (VCR1 or VCR2) and reprogram the remote control.

Setting up your TV

| Cable TV converter/satellite receiver, VCR and DVD player code tables |
|---|
| [For CBL/SAT Mode] |
| |

| CABLE Box | | | | | |
|---|---|--|--|---|---|
| Brand | Code | Brand | Code | Brand | Code |
| ABC | 061, 062, 063, 082, | Jerrold | 062, 069, 071, 082, | Scientific Atlanta | 063, 078, 079, 080 |
| | 084, 087, 091, 092, 096, 098 | Magnavox | 086, 089, 091, 096 072, 096 | Sears | 088, 098, 101, 105 095 |
| Archer | 065, 092, 097, 099 | Memorex | 091, 092, 104 | Signature | 062 |
| Cableview | 064, 094 | Multi Canal | 090 | Signature 2000 | 096 |
| Century Citizen | 092 090, 092, 097 | Novavision Panasonic | 101 081, 083, 085 | Sprucer Starcom | 081, 085 069, 082, 087, 096 |
| Contec | 083, 085, 086, 088, | | 087 | Starcom | 103, 104 |
| | 093, 098 | Philips | 066, 067, 068, 070, | Stargate | 069, 090 |
| Diamond | 093 | | 072, 073, 074, 075, | Sylvania | 095, 100 |
| Eagle GE | 091 061, 062 | Pioneer | 091, 092 076, 077 | TeleView Texscan | 090 100 |
| Gemini | 069, 070, 094 | Proscan | 061, 062 | Tocom | 071, 084, 085 |
| General Instruments | | Radio Shack | 092, 097, 099 | U. S. Electronics | |
| Hamlin Hitachi | 093 062, 095, 096 | RCA Realistic | 064, 081 065 | United Cable Universal | 082 065, 092, 097, 099 |
| Jasco | 002, 093, 090 | Recoton | 102 | Universal | 102, 103 |
| | | Samsung | 077, 090 | Wards | 096 |
| Satellite | | | | | |
| Brand | Code | Brand | Code | Brand | Code |
| Alphastar | 038, 059 | Hughes Network | 019 | Realistic | 030 |
| Chaparral DISH Network | 034 057 | Systems Intersat | 048 | Samsung Sony | 059 014, 055 |
| Drake | 020, 040, 044, 046, | Janeil | 027 | Star Choice | 057 |
| Echostar | 050, 053 018, 041, 051 | JVC Kenwood | 017, 057 029 | Star Trak STS | 025, 026, 037, 054 024 |
| Express Vu | 018, 041, 051 | Magnavox | 029 | Toshiba | 000, 001, 002, 003, |
| Fujitsu | 027 | Optimus | 058 | | 004, 005, 006, 007, |
| GE | 008, 009, 013 | Pansat | 036, 052 015, 042 | Uniden | 020, 031, 056 021, 028, 030, 032, |
| | 010 011 012 022 | | | | |
| General Instruments | 010, 011, 012, 022, 023, 031, 049 | Primestar Proscan | 008, 009, 013 | ernaen. | 035, 039, 043, 045, |
| General Instruments Hitachi Hughes | 023, 031, 049 033 033 | | | Zenith | 035, 039, 043, 045, 047, 058 027 |
| General Instruments Hitachi Hughes [For VCR Mo VCR | 023, 031, 049 033 033 de] | Proscan Radio Shack RCA | 008, 009, 013 022, 023, 030 008, 009, 013, 016 | Zenith | 035, 039, 043, 045, 047, 058 027 |
| General Instruments Hitachi Hughes [For VCR Mo VCR Brand | 023, 031, 049 033 033 de] Code | Proscan Radio Shack RCA Brand | 008, 009, 013 022, 023, 030 008, 009, 013, 016 Code | Zenith Brand | 035, 039, 043, 045, 047, 058 027 Code |
| General Instruments Hitachi Hughes [For VCR Mor VCR Brand Admiral | 023, 031, 049 033 033 de] Code 049 | Proscan Radio Shack RCA Brand Fuji | 008, 009, 013 022, 023, 030 008, 009, 013, 016 Code 004, 041 | Zenith | 035, 039, 043, 045, 047, 058 027 Code 005, 006, 007, 012, |
| General Instruments Hitachi Hughes [For VCR Mor VCR Brand Admiral Aiko Aiwa | 023, 031, 049 033 033 de] Code 049 019 018 | Proscan Radio Shack RCA Brand Fuji Funai Garrard | 008, 009, 013 022, 023, 030 008, 009, 013, 016 Code 004, 041 018, 073 018 | Zenith Brand | 035, 039, 043, 045, 047, 058 027 Code 005, 006, 007, 012, 014, 026, 053, 067 007, 009, 010, 016, |
| General Instruments Hitachi Hughes [For VCR Mot VCR Brand Admiral Aiko Aiwa | 023, 031, 049 033 033 de] Code 049 019 019 018 003, 004, 037, 038, | Proscan Radio Shack RCA Brand Fuji Funai | 008, 009, 013 022, 023, 030 008, 009, 013, 016 Code 004, 041 018, 073 018 001, 002, 009, 040, | Zenith Brand Marantz | 035, 039, 043, 045, 047, 058 027 Code 005, 006, 007, 012, 014, 026, 053, 067 007, 009, 010, 016, 018, 034, 049, 063, |
| General Instruments Hitachi Hughes [For VCR Mor VCR Brand Admiral Aiko Aiwa Akai | 023, 031, 049 033 033 de] Code 049 019 018 | Proscan Radio Shack RCA Brand Fuji Funai Garrard | 008, 009, 013 022, 023, 030 008, 009, 013, 016 Code 004, 041 018, 073 018 | Zenith Brand Marantz | 035, 039, 043, 045, 047, 058 027 Code 005, 006, 007, 012, 014, 026, 053, 067 007, 009, 010, 016, |
| General Instruments Hitachi Hughes [For VCR Mor VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell | 023, 031, 049 033 033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 | Proscan Radio Shack RCA Brand Fuji Funai Garrard GE | 008, 009, 013 022, 023, 030 008, 009, 013, 016 Code 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, | Zenith Brand Marantz Memorex MGA | 035, 039, 043, 045, 047, 058 027 Code 005, 006, 007, 012, 014, 026, 053, 067 007, 009, 010, 016, 018, 034, 049, 063, 065, 066, 068, 075, 079 020, 028, 039 |
| General Instruments Hitachi Hughes [For VCR Mor VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic | 023, 031, 049 033 033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 | Proscan Radio Shack RCA Brand Fuji Funai Garrard GE Go Video Goldstar | 008, 009, 013 022, 023, 030 008, 009, 013, 016 Code 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 | Zenith Brand Marantz Memorex MGA MGN | 035, 039, 043, 045, 047, 058 027 Code 005, 006, 007, 012, 014, 026, 053, 067 007, 009, 010, 016, 018, 034, 049, 063, 065, 066, 068, 075, 079 020, 028, 039 056 |
| General Instruments Hitachi Hughes [For VCR Mor VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver | 023, 031, 049 033 033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 | Proscan Radio Shack RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon | 008, 009, 013 022, 023, 030 008, 009, 013, 016 Code 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 005 | Zenith Brand Marantz Memorex MGA | 035, 039, 043, 045, 047, 058 027 Code 005, 006, 007, 012, 014, 026, 053, 067 007, 009, 010, 016, 018, 034, 049, 063, 065, 066, 068, 075, 079 020, 028, 039 056 024, 025, 035, 063 020, 024, 025, 028, |
| General Instruments Hitachi Hughes [For VCR Mor VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE | 023, 031, 049 033 033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 | Proscan Radio Shack RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente | 008, 009, 013 022, 023, 030 008, 009, 013, 016 Code 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 005 024, 025, 035, 037, | Zenith Brand Marantz Memorex MGA MGN Minolta Mitsubishi | 035, 039, 043, 045, 047, 058 027 |
| General Instruments Hitachi Hughes [For VCR Mor VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE | 023, 031, 049 033 033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 | Proscan Radio Shack RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon | 008, 009, 013 022, 023, 030 008, 009, 013, 016 Code 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 005 | Zenith Brand Marantz Memorex MGA MGN Minolta | 035, 039, 043, 045, 047, 058 027 Code 005, 006, 007, 012, 014, 026, 053, 067 007, 009, 010, 016, 018, 034, 049, 063, 065, 066, 068, 075, 079 020, 028, 039 056 024, 025, 035, 063 020, 024, 025, 028, |
| General Instruments Hitachi Hughes [For VCR Mov VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen | 023, 031, 049 033 033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 007, 068 008, 017 010 009, 010, 011, 012, 013, 014, 015, 019, 057, 073 | Proscan Radio Shack RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi | 008, 009, 013 022, 023, 030 008, 009, 013, 016 008, 009, 013, 016 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 005 024, 025, 035, 037, 042, 063, 070, 080 076 005, 006, 007, 008, | Zenith Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC | 035, 039, 043, 045, 047, 058 027 |
| General Instruments Hitachi Hughes [For VCR Mor VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen | 023, 031, 049 033 033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057, 073 005 | Proscan Radio Shack RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL | 008, 009, 013 022, 023, 030 008, 009, 013, 016 008, 009, 013, 016 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 005, 065, 067 018, 065 005 024, 025, 035, 037, 042, 063, 070, 080 076 005, 006, 007, 008, 009, 010, 023, 024, | Zenith Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech | 035, 039, 043, 045, 047, 058 027 |
| General Instruments Hitachi Hughes [For VCR Mor VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen Colortyme Craig | 023, 031, 049 033 033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057, 073 005 009, 010, 016, 061, 065, 079 | Proscan Radio Shack RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL JC Penney | 008, 009, 013 022, 023, 030 008, 009, 013, 016 008, 009, 013, 016 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 024, 025, 035, 037, 042, 063, 070, 080 076 005, 006, 007, 008, 009, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065 | Zenith Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC | 035, 039, 043, 045, 047, 058 027 |
| General Instruments Hitachi Hughes [For VCR Mor VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver | 023, 031, 049 033 033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057, 073 005 009, 010, 016, 061, 065, 079 001, 005, 009, 012, | Proscan Radio Shack RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL JC Penney Jensen | 008, 009, 013 022, 023, 030 008, 009, 013, 016 008, 009, 013, 016 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 005 024, 025, 035, 037, 042, 063, 070, 080 076 005, 006, 007, 008, 009, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065 024, 025, 037 | Zenith Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech NEC | 035, 039, 043, 045, 047, 058 027 |
| General Instruments Hitachi Hughes [For VCR Mor VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen Colortyme Craig | 023, 031, 049 033 033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057, 073 005 009, 010, 016, 061, 065, 079 | Proscan Radio Shack RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL JC Penney | 008, 009, 013 022, 023, 030 008, 009, 013, 016 008, 009, 013, 016 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 024, 025, 035, 037, 042, 063, 070, 080 076 005, 006, 007, 008, 009, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065 | Zenith Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech | 035, 039, 043, 045, 047, 058 027 |
| General Instruments Hitachi Hughes [For VCR Mov VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen Colortyme Craig Curtis Mathes | 023, 031, 049 033 033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 006, 018 009, 010, 011, 012, 019 009, 010, 011, 012, 019 009, 010, 011, 012, 019 009, 010, 011, 012, 015, 073 005 009, 010, 016, 061, 065, 079 001, 005, 009, 012, 014, 040, 048, 053, 056, 057 011, 013, 015, 017, | Proscan Radio Shack RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL JC Penney Jensen JVC | 008, 009, 013 022, 023, 030 008, 009, 013, 016 008, 009, 013, 016 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 024, 025, 035, 037, 042, 063, 070, 080 076 005, 006, 007, 008, 009, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065 024, 025, 037 005, 006, 007, 014, 037, 043, 062, 063, 068, 082 | Zenith Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech NEC | 035, 039, 043, 045, 047, 058 027 |
| General Instruments Hitachi Hughes [For VCR Mor VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen Colortyme Craig Curtis Mathes Daewoo | 023, 031, 049 033 033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057, 073 005 009, 010, 016, 061, 065, 079 001, 005, 009, 012, 014, 040, 048, 053, 056, 057 011, 013, 015, 017, 018, 019, 057, 078 | Proscan Radio Shack RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL JC Penney Jensen | 008, 009, 013 022, 023, 030 008, 009, 013, 016 008, 009, 013, 016 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 024, 025, 035, 037, 042, 063, 070, 080 076 005, 006, 007, 008, 009, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065 024, 025, 037 005, 006, 007, 014, 037, 043, 062, 063, 068, 082 005, 006, 007, 012, | Zenith Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech NEC Nikko Noblex Optimus Optonica | 035, 039, 043, 045, 047, 058 027 |
| General Instruments Hitachi Hughes [For VCR Mov VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen Colortyme Craig Curtis Mathes Daewoo Daytron | 023, 031, 049 033 033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 006, 018 009, 010, 011, 012, 019 009, 010, 011, 012, 019 009, 010, 011, 012, 019 009, 010, 011, 012, 015, 073 005 009, 010, 016, 061, 065, 079 001, 005, 009, 012, 014, 040, 048, 053, 056, 057 011, 013, 015, 017, | Proscan Radio Shack RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL JC Penney Jensen JVC | 008, 009, 013 022, 023, 030 008, 009, 013, 016 008, 009, 013, 016 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 024, 025, 035, 037, 042, 063, 070, 080 076 005, 006, 007, 008, 009, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065 024, 025, 037 005, 006, 007, 014, 037, 043, 062, 063, 068, 082 | Zenith Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech NEC | 035, 039, 043, 045, 047, 058 027 |
| General Instruments Hitachi Hughes [For VCR Mor VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen Colortyme Craig Curtis Mathes Daewoo Daytron Denon Dimensia | 023, 031, 049 033 033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057, 073 005 009, 010, 016, 061, 065, 079 001, 005, 009, 012, 014, 040, 048, 053, 056, 057 011, 013, 015, 017, 018, 019, 057, 078 078 063 001, 048 | Proscan Radio Shack RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL JC Penney Jensen JVC Kenwood Kodak | 008, 009, 013 022, 023, 030 008, 009, 013, 016 008, 009, 013, 016 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 024, 025, 035, 037, 042, 063, 070, 080 076 005, 006, 007, 008, 009, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065 024, 025, 037 005, 006, 007, 014, 037, 043, 062, 063, 068, 082 005, 006, 007, 012, 014, 037, 043, 053, 068, 071 | Zenith Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech NEC Nikko Noblex Optimus Optonica | 035, 039, 043, 045, 047, 058 027 |
| General Instruments Hitachi Hughes [For VCR Mov VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen Colortyme Craig Curtis Mathes Daewoo Daytron Denon Dimensia Electrohome | 023, 031, 049 033 033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057, 073 005 009, 010, 016, 061, 065, 079 001, 005, 009, 012, 014, 040, 048, 053, 056, 057 011, 013, 015, 017, 018, 019, 057, 078 078 063 001, 048 010, 020, 065 | Proscan Radio Shack RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL JC Penney JEN JC Penney Kenwood Kodak LG | 008, 009, 013 022, 023, 030 008, 009, 013, 016 008, 009, 013, 016 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 024, 025, 035, 037, 042, 063, 070, 080 076 005, 006, 007, 08, 009, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065 024, 025, 037 005, 006, 007, 014, 037, 043, 062, 063, 068, 082 005, 006, 007, 012, 014, 037, 043, 053, 068, 071 010 | Zenith Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech NEC Nikko Noblex Optimus Optonica Orion Panasonic | 035, 039, 043, 045, 047, 058 027 Code 005, 006, 007, 012, 014, 026, 053, 067 007, 009, 010, 016, 018, 034, 049, 063, 065, 066, 068, 075, 079 020, 028, 039 056 024, 025, 035, 063 020, 024, 025, 028, 039, 043, 065 049 049 049 049 049 049 049 049 049, 043, 065 049 049 049 049 049 05, 006, 007, 012, 014, 037, 043, 053, 054, 067, 070 010 009 010, 049, 065 031 054, 057, 062, 065, 068, 072 036, 045, 046, 057, 061, 072, 079 |
| General Instruments Hitachi Hughes [For VCR Mor VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen Colortyme Craig Curtis Mathes Daewoo Daytron Denon Dimensia Electrohome | 023, 031, 049 033 033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057, 073 005 009, 010, 016, 061, 065, 079 001, 005, 009, 012, 014, 040, 048, 053, 056, 057 011, 013, 015, 017, 018, 019, 057, 078 078 063 001, 048 | Proscan Radio Shack RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL JC Penney Jensen JVC Kenwood Kodak | 008, 009, 013 022, 023, 030 008, 009, 013, 016 008, 009, 013, 016 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 024, 025, 035, 037, 042, 063, 070, 080 076 005, 006, 007, 008, 009, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065 024, 025, 037 005, 006, 007, 014, 037, 043, 062, 063, 068, 082 005, 006, 007, 012, 014, 037, 043, 053, 068, 071 | Zenith Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech NEC Nikko Noblex Optimus Optonica Orion | 035, 039, 043, 045, 047, 058 027 |
| General Instruments Hitachi Hughes [For VCR Mov VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen Colortyme Craig | 023, 031, 049 033 033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057, 073 005 009, 010, 016, 061, 065, 079 001, 005, 009, 012, 014, 040, 048, 053, 056, 057 011, 013, 015, 017, 018, 019, 057, 078 078 063 001, 048 010, 020, 065 003, 008, 010, 011, 017, 018, 020, 028, 039, 054, 057, 062, | Proscan Radio Shack RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL JC Penney Jensen JVC Kenwood Kodak LG Lloyds Logik LXI | 008, 009, 013 022, 023, 030 008, 009, 013, 016 008, 009, 013, 016 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 005 024, 025, 035, 037, 042, 063, 070, 080 076 005, 006, 007, 008, 009, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065 024, 025, 037 005, 006, 007, 014, 037, 043, 062, 063, 068, 082 005, 006, 007, 012, 014, 037, 043, 053, 068, 071 010 053, 073, 079 061 010 | Zenith Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech NEC Nikko Noblex Optimus Optonica Orion Panasonic Pentax Pentex Research | 035, 039, 043, 045, 047, 058 027 Code 005, 006, 007, 012, 014, 026, 053, 067 007, 009, 010, 016, 018, 034, 049, 063, 065, 066, 068, 075, 079 020, 028, 039 056 024, 025, 035, 063 020, 024, 025, 028, 039, 043, 065 049 049 049 049 049 049 049 049 049 049 |
| General Instruments Hitachi Hughes [For VCR Mor VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen Colortyme Craig Curtis Mathes Daewoo Daytron Denon Dimensia Electrohome Emerson | 023, 031, 049 033 033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057, 073 005 009, 010, 016, 061, 065, 079 001, 005, 009, 012, 014, 040, 048, 053, 056, 057 011, 013, 015, 017, 018, 019, 057, 078 078 063 001, 048 010, 020, 065 003, 008, 010, 011, 017, 018, 020, 028, 039, 054, 057, 062, 039, 054, 057, 062, 049, 057, 068, 072 | Proscan Radio Shack RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL JC Penney JENSEN JVC Kenwood Kodak LG Lloyds Logik LXI Magnasonic | 008, 009, 013 022, 023, 030 008, 009, 013, 016 008, 009, 013, 016 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 005 024, 025, 035, 037, 042, 063, 070, 080 076 005, 006, 007, 008, 009, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065 024, 025, 037 005, 006, 007, 014, 037, 043, 062, 063, 068, 082 005, 006, 007, 012, 014, 037, 043, 053, 068, 071 010 053, 073, 079 061 010 061, 065, 078 | Zenith Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech NEC Nikko Noblex Optimus Optonica Orion Panasonic Pentax Pentex Research Philco | 035, 039, 043, 045, 047, 058 027 Code 005, 006, 007, 012, 014, 026, 053, 067 007, 009, 010, 016, 018, 034, 049, 063, 065, 066, 068, 075, 079 020, 028, 039 056 024, 025, 035, 063 020, 024, 025, 028, 039, 043, 065 049 049 049 049 049 049 049 049 049, 046, 061 009, 012, 018 005, 006, 007, 012, 014, 037, 043, 053, 054, 067, 070 010 009 010, 049, 065 031 054, 057, 062, 065, 068, 072 036, 045, 046, 057, 061, 072, 079 012, 024, 025, 035, 044 024, 025, 063 |
| General Instruments Hitachi Hughes [For VCR Mov VCR Brand Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen Colortyme Craig Curtis Mathes Daewoo Daytron Denon Dimensia Electrohome | 023, 031, 049 033 033 de] Code 049 019 018 003, 004, 037, 038, 039, 058, 069 010 007, 068 008, 017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057, 073 005 009, 010, 016, 061, 065, 079 001, 005, 009, 012, 014, 040, 048, 053, 056, 057 011, 013, 015, 017, 018, 019, 057, 078 078 063 001, 048 010, 020, 065 003, 008, 010, 011, 017, 018, 020, 028, 039, 054, 057, 062, | Proscan Radio Shack RCA Brand Fuji Funai Garrard GE Go Video Goldstar Gradiente Harman Kardon Hitachi JBL JC Penney Jensen JVC Kenwood Kodak LG Lloyds Logik LXI | 008, 009, 013 022, 023, 030 008, 009, 013, 016 008, 009, 013, 016 004, 041 018, 073 018 001, 002, 009, 040, 042, 048, 056 056, 059, 061, 081 005, 010, 014, 054, 056, 065, 067 018, 065 005 024, 025, 035, 037, 042, 063, 070, 080 076 005, 006, 007, 008, 009, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065 024, 025, 037 005, 006, 007, 014, 037, 043, 062, 063, 068, 082 005, 006, 007, 012, 014, 037, 043, 053, 068, 071 010 053, 073, 079 061 010 | Zenith Brand Marantz Memorex MGA MGN Minolta Mitsubishi Montgomery Ward Motorola MTC Multitech NEC Nikko Noblex Optimus Optonica Orion Panasonic Pentax Pentex Research | 035, 039, 043, 045, 047, 058 027 Code 005, 006, 007, 012, 014, 026, 053, 067 007, 009, 010, 016, 018, 034, 049, 063, 065, 066, 068, 075, 079 020, 028, 039 056 024, 025, 035, 063 020, 024, 025, 028, 039, 043, 065 049 049 049 049 049 049 049 049 049 049 |

Introductio

Connecting your TV

Using the TV's Featu

Appendi

19

J3U70221A(E)P17-24

19

05/08/2005, 10:13 AM

VCR (Continued)

| VCR (Conti | nued) | | | | |
|-------------------------------|--|---------------------|--|---------------------------|--|
| Brand | Code | Brand | Code | Brand | Code |
| Portland Proscan Proton | 012, 013, 015 001, 002, 048 061 | Sanyo | 007, 009, 016, 054, 064, 068, 071, 075, 079, 085 | Tashiko Tatung Teac | 010 037 018, 029, 037 |
| Quasar | 045 | Scott | 008, 011, 017, 028, | Technics | 036 |
| Radio Shack | 010, 031, 065 | Sec. ro | 030, 057, 065, 072 | Teknika | 010, 018, 065 |
| Radio Shack/ Realistic | 007, 009, 010, 016, 018, 020, 021, 022, | Sears | 007, 010, 016, 021, 022, 023, 024, 025, | Toshiba | 000, 011, 021, 023, 024, 028, 030, 039, |
| | 031, 049 | | 035, 053, 057, 063, | | 057, 074, 078, 079 |
| Radix RCA | 010 001, 002, 003, 009, | | 064, 065, 068, 071, 075, 079 | Totevision Unitec | 009, 010, 065 073 |
| 110/1 | 024, 025, 029, 035, | Sharp | 013, 020, 031, 049, | Unitech | 009 |
| | 040, 042, 045, 048, 055, 056, 063, 071, | Shintom | 051, 060, 066 004, 025, 032, 061 | Vector Research | 005, 006, 011, 012, 053 |
| | 083 | Signature | 049 | Video Concepts | 005, 006, 011, 012, |
| Realistic | 007, 009, 010, 011, | Signature 2000 | 075 | Manda | 039, 053 |
| | 016, 018, 020, 021, 022, 031, 049, 051, | Singer Sony | 047, 061 004, 032, 033, 041, | Wards | 009, 010, 011, 016, 018, 020, 024, 025, |
| | 056, 060, 065, 075, | | 052, 058, 070, 074, | | 031, 035, 049, 051, |
| Ricoh | 079 047 | STS | 076, 077, 080 035 | | 056, 057, 060, 065, 066, 079 |
| Runco | 034 | Sylvania | 018, 026, 027, 028, | White Westinghouse | 073 |
| Samsung | 009, 011, 038, 056, 073, 084 | Symphonic | 044,072 018,051,053,073, | XR-1000 Yamaha | 018 005, 006, 007, 014, |
| Sansui | 006, 037, 043, 061 | | 079 | | 037, 053 |
| | | Tandy | 007 | Zenith | 004, 032, 034, 041, 047, 069, 086 |
| TV/VCR Cor | mbo | 1 | | | |
| Brand | Code | Brand | Code | Brand | Code |
| Action GE | 078 059, 062 | Precision Quasar | 078 065 | Toshiba Zenith | 057 065 |
| Goldstar | 065 | Realistic | 079 | Totevision | 009, 010, 065 |
| Panasonic | 065 | Sony | 074 | | |
| [For DVD M DVD | ode] | | | | |
| Brand | Code | Brand | Code | Brand | Code |
| Aiwa | 006, 015 | Kenwood | 037 | Sampo | 060 |
| Apex BOSE | 016, 017 097 | Konka Magnavox | 008, 009 004, 038 | Samsung Sansui | 061, 062, 086, 090 073 |
| Broksonic | 018 | Memorex | 039 | Sanyo | 063, 091 |
| Clarion Classic | 019 020 | Mintek NAD | 040 026 | Sharp Sherwood | 064, 067 074 |
| Daewoo | 021 | Nakamichi | 041 | Sony | 011, 012, 065, 066, |
| Denon Emerson | 022, 023, 024, 025 026, 027 | Norcent Onkyo | 043 044 | Sylvania | 068, 069, 070 027 |
| Fisher | 028 | Oritron | 058 | Teac | 071 |
| Funai | 027 | Panasonic | 010, 045, 046, 047, | Technics | 072 |
| GE Go Video | 001, 029, 030 087 | Philips | 048, 049, 050 004, 051 | Techwood Toshiba | 075 000, 013, 076, 077, |
| GPX | 031 | Pioneer | 052, 053, 054, 055 | Verselse | 078 |
| Hitachi | 005, 032, 033, 034, 035 | Proscan Qwestar | 001, 056 057, 058 | Yamaha Zenith | 079, 080, 081 014, 082, 092 |
| JVC | 003, 007, 036, 042, 088 | RCA | 001, 002, 059, 089 | | |
| Portable DV | D | | | | |
| Brand | Code | Brand | Code | Brand | Code |
| Aiwa Audiovox | 093 094, 095 | Panasonic | 024, 096, 099 | RCA | 098 |
| HTIB | | 1 | | 1 | |
| Brand | Code | Brand | Code | Brand | Code |
| Lasonic | 083 | Panasonic | 084 | Venturer | 085 |
| [For VCR ar DVD/VCR C | nd DVD Mode] ombo | | | | |
| Brand | VCR Code | DVD Code | Brand V | /CR Code | DVD Code |

 Brand
 VCR Code
 DVD Code
 Brand
 VCR Code
 DVD Code

 Go Video
 081
 087
 Samsung
 084
 090

 JVC
 082
 088
 Sanyo
 085
 091

 RCA
 083
 089
 Zenith
 086
 092

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Setting up your TV

J3U70221A(E)P17-24

Learning about the remote control

INPUT selects the video input source (page 29)

DISPLAY displays status information on-screen (page 38)

MUTE turns off the sound (page 36) **POWER** turns the TV on and off

CHANNEL NUMBERS allow direct access to channels (page 24)

CH RTN (Channel Return) returns to the last viewed channel (page 24)

TV selects TV mode

 $CH \wedge / V$ cycles through programmed channels (page 23)

VOL +/- adjusts the volume level

VCR selects VCR mode (page 17)

CBL/SAT selects CBL/SAT mode (page 17)

DVD selects DVD mode (page 18)

SLEEP programs the TV to turn off at a set time (page 33)

PIC SIZE cycles through the three picture sizes: Natural, TheaterWide and full (page 31)

FAV \blacktriangle / \bigtriangledown (Favorite Channels) cycles through the channels you programmed as favorite channels (page 24)

MENU/ENTER accesses the menu system; also sets menu selections (page 22)

EXIT closes on-screen menus (page 22)

DVD MENU access the DVD menu

PAUSE pauses a videotape/DVD

PLAY plays a videotape/DVD

STOP stops a videotape/DVD

DVD SKIP/SEARCH I I I I skips DVD chapter

REW rewinds a videotape/DVD

FF fast forwards a videotape/DVD

TOP MENU access the DVD TOP menu

REC starts recording a videotape

DVD CLEAR clears input data in DVD mode

TV/VCR toggles between TV and VCR modes when viewing while recording





Introduction

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05/08/2005, 10:14 AM

Starting setup

connection is made!

The STARTING SETUP feature appears the first time you turn on the TV, and helps you select the menu language, specify the TV/CABLE setting, and program channels automatically. IMPORTANT: Make sure that the antenna or cable TV system

- 1. Press TV to select the TV mode.
- Press POWER to turn on the TV. The starting setup function begins and the language setup menu appears on the screen. Press ▲ or ▼ to select your desired
- language, then press ENTER. 3. Press \blacktriangle or \blacktriangledown to select "TV" or
- "CABLE", then press ENTER.
- 4. Press ▲ or ▼ to select "START", then press ENTER. If you select "CANCEL" and press ENTER, the
- STARTING SETUP stops and changes to the TV screen. 5. Now the "AUTO SETUP" starts. After the starting setup is com-

LANGUAGE / LANGUE / IDIOMA

ENTER: SET

ENGLISH FRANÇAIS ESPAÑOL

():SELEC

- pleted, the TV channel appears on the screen.
 - If you press the EXIT button in the process of "AUTO SETUP" the STARTING SETUP stops and changes to the TV screen.

After you have installed the batteries and programmed the remote control, you need to set some preferences on the TV using the menu system. You can access the menu system with the buttons on the remote control.

- When you make a menu selection, your changes occur immediately. You do not have to press MENU or EXIT to see your changes.
- After one minute, the menu screen will automatically close if you do not make a selection. Your changes will still be saved.
- When you are finished programming the menus, press EXIT.

Changing the on-screen display language

You can choose from three different languages (English, French and Spanish) for the on screen displays. Adjustment menus and messages will appear in the language of your choice.

To select a language:

- 1. Press TV to select the TV mode.
- 2. Press MENU, then press ◀ or ► until the SETUP menu appears.

| , de la companya de l | |
|--|-------------------------|
| <u>SETUP</u> LANGUAGE | ENGLISH |
| CLOCK SET TV / CABLE CH PROGRAM ADD / ERASE | 12:00AM CABLE ADD |
| • SELECT | • ADJUST |

3. Press ▲ or ▼ to highlight LANGUAGE.

| J. | |
|--|-----------------------------------|
| SETUP | |
| LANGUAGE | ENGLISH H / FRANÇAIS / ESPAÑOL |
| CLOCK SET TV / CABLE CH PROGRAM ADD / ERASE | 12:00AM CABLE ADD |
| (i):SELECT | ():ADJUST |

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



Note:

The position and size of the on-screen menus change for some program formats (such as 1080i or 720p).

Note:

If the remote control does not operate your TV, press the "TV" button on the remote control and try again.

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Setting up your TV

Adding channels to the TV's memory

When you press CH \land or \lor , your TV will stop only on the channels you have stored in the TV's channel memory. Follow the steps below to program channels into the channel memory.

Programming channels automatically

Your TV can automatically detect all active channels and store them in its memory. After the TV has stored the channels in its memory automatically, you can add or erase channels manually.

To add channels automatically:

- 1. Press TV to select the TV mode.
- 2. Press MENU, then press ◀ or ► to display the SETUP menu.
- 3. Press ▲ or ▼ until the TV/CABLE selection is highlighted.
- Press ◀ or ► to highlight either TV or CABLE, depending on which you use. If you use an antenna, choose TV.



- If you use cable, choose CABLE. 5. Press ▼ until the CH PROGRAM selection is highlighted.
- 6. Press ► to start channel programming. The TV will automatically cycle through all the TV or Cable channels (depending on which you selected), and store all active channels in the channel memory. While the TV is cycling through the channels, the message "PROGRAMMING NOW-PLEASE WAIT" appears.
- 7. When channel programming is complete, the message "COMPLETED" appears.
- 8. Press CH \wedge or \vee to view the programmed channels.

Adding and erasing channels manually

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

To add or erase channels manually:

- 1. Press TV to select the TV mode.
- 2. Select the channel you want to add or erase. If adding channels, you must select the channel to add using the Channel Number buttons.
- Press MENU, then press ◀ or ► to display the SETUP menu.
- Press ▲ or ▼ to highlight ADD/ ERASE.
 Press ◀ or ▶ to select ADD or

ERASE, whichever function you

| L . | |
|---------------------------------------|------------------|
| SETUP | |
| LANGUAGE | ENGLISH |
| CLOCK SET TV / CABLE CH PROGRAM | 12:00AM CABLE |
| ADD / ERASE | ADD / ERASE |
| SELECT | ():ADJUST |

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

Changing channels

want to perform.

To change to the next programmed channel:

- Press Channel \land / \lor on the TV or CH \land / \lor on the remote control.
- **To change to a specific channel (programmed or unprogrammed):** Press the Channel Number buttons (0-9 and 100) on the remote control. For example, to select channel 125, press 100, 2, 5.



In addition to cycling through your programmed channels, the Channel \wedge/\vee buttons will also cycle through the video input sources (page 29) in the order illustrated below.

ANT (programmed channel) ←→ VIDEO1 ←→ VIDEO2 ↓ PC ←→ HDMI ←→ ColorStream HD Using the TV's Features

Setting up your TV

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Note:

If the remote control does not operate your TV, press the "TV" button on the remote control and try again.

Appendix

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. Press TV to select the TV mode.
- 2. Select the first channel you want to view.
- Select a second channel using the Channel Number buttons (0-9, 100). З.
- 4. Press CH RTN. The previous channel will be displayed.
- Each time you press CH RTN, the TV will switch back and forth

between the two channels.

Programming your favorite channels

You can preset up to 12 of your favorite channels using the Favorite Channel Programming feature. Because this feature scans through only your favorite channels, it allows you to skip other channels you do not normally watch.

You can still use Channel \wedge / \vee to scan through all the channels you programmed in the TV's memory.

To program your favorite channels:

- 1. Press TV to select the TV mode.
- 2. Select a channel you want to program.
- 3. Press MENU, then press ◀ or ► to display the OPTION menu.
- 4. Press ▲ or ▼ to highlight FAVORITE CH.



5. Press ▶ to display the FAVORITE CH menu. SET/CLEAR will be highlighted.

| L ¢ | |
|-------------|----------------------|
| FAVORITE CH | :CH002 |
| SET / CLEAR | TV CABLE |
| SETUP CH | |
| RETURN | ••••• |
| SELECT | Indjust enter:set |

- 6. Press ◀ or ► to highlight SET and press ENTER.
- 7. Press EXIT to return to normal viewing.
- 8. Repeat steps 1-7 for up to 12 channel.

To select your favorite channels:

Press the FAV ▲ / ▼ buttons on the remote control to select your favorite channels.

The FAV ▲ / ▼ buttons will not work until you have programmed your favorite channels.

To clear your favorite channels:

- 1. Press TV to select the TV mode.
- 2. Select a channel you want to clear.
- Press MENU, then press deltor b to display the OPTION menu.
 Press ▲ or ▼ to highlight FAVORITE CH.
- 5. Press ▶ to display the FAVORITE CH menu. SET/CLEAR will be highlighted.
- 6. Press ◀ or ► to highlight CLEAR.

| , d | |
|-------------|-----------------------------------|
| FAVORITE CH | :CH002 TV CABLE |
| SETUP CH | |
| ®:SELECT | <pre> @:ADJUST ENTER:CLEAR </pre> |

- 7. Press ENTER until "0" replaces the channel number you want to erase.
- 8. Press EXIT to return to normal viewing. 9. Repeat steps 1-8 for the other channels.
- 24



Note:

If the remote control does not operate your TV, press the "TV" button on the remote control and try again.

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Using the TV's Features

Using the LOCKS menu

The LOCK menu includes the CH LOCK, VIDEO LOCK, GAME TIMER, PANEL LOCK, and NEW PASSWORD functions.

Selecting a password

You can use these functions after entering the correct password.

To select your password and access the LOCKS menu:

- 1. Press TV to select the TV mode.
- 2. Press MENU, then press \blacktriangleleft or \blacktriangleright to highlight the LOCKS menu.
- 3. Press \blacktriangle or \blacktriangledown to display the password entering mode.



4. Use the Channel Number buttons (0-9) to enter your password. If you are accessing the LOCKS menu for the first time, select a four-digit number to be your password. Press ENTER.

| , s | |
|--------------|------------|
| LOCKS | |
| NEW PASSWORD | **** |
| | |
| | |
| SELECT:[0-9] | ENTER: SET |
| | EXIT: END |

 Enter the password again to confirm it, and then press ENTER. The LOCKS menu appears. If the wrong password is entered, "ERROR" blinks about 4 seconds.



6. You may now set up the LOCKS menu. See "Locking channels" (page 26), "Locking the video inputs" (page 26), "Setting the GameTimer[™]" (page 27) or "Using the panel lock feature" (page 27).

To change your password:

- 1. Press TV to select the TV mode.
- 2. Press MENU, then press ◀ or ► to display the LOCKS menu.
- 3. Press \blacktriangle or \blacktriangledown to display the password entering mode.
- 4. Use the Channel Number buttons (0-9) to enter your password. Press ENTER. The LOCKS menu appears.
- 5. Press ▲ or ▼ to highlight NEW PASSWORD and press ► to display the NEW PASSWORD menu.
- 6. Use the Channel Number buttons (0-9) to enter a new code. Press ENTER.
- 7. Enter the password again to confirm it, and then press ENTER.
- 8. Press EXIT to return to normal viewing.



Note:

The password you programmed is also used in the LOCKS menu; see pages 26-27.

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Appendix

Note:

If you forget your password, press DISPLAY four times within five seconds while the TV is in password entering mode. This allows you to reset your password.

Note:

If the remote control does not operate your TV, press the "TV" button on the remote control and try again.

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With the CH LOCK feature, you can lock specific channels. You will not be able to tune locked channels unless you clear the setting. You can choose to lock up to nine TV channels and nine cable channels.

- 1. Press TV to select the TV mode.
- 2. Use the Channel Number buttons (0-9 and 100) to display the television channel you wish to lock.
- 3. Press MENU, then press ◀ or ► to display the LOCKS menu.

6

LOCKS LOCK CH LOC

GAME TIMER

SELEC

сн госк

LOCKED CH

RETURN

.SELECT

s

s

:ADJUST ENTER:SET

:CH 002

OFF

0

- 4. Press \blacktriangle or \blacksquare to display the password entering mode.
- 5. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears.
- Press ▲ or ▼ to highlight CH LOCK and press ▶ to display the CH LOCK menu.
- 7. Press ◀ or ► to select the following:
 - SET- to set the channel as one to be locked. Then press ENTER.
 - CLEAR- to clear all channels from the list of locked channels. Then press ENTER.

 Repeat steps 1 through 7 to lock other channels. When you are finished locking channels, press EXIT to return to normal viewing.
 If you try to tune a locked channel, the TV will not display it, but will display the nearest unlocked channel.

To unlock channels:

- 1. Press TV to select the TV mode.
- 2. Press MENU, then press ◀ or ► to display the LOCKS menu.
- 3. Press \blacktriangle or \triangledown to display the password entering mode.
- 4. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears.
- 5. Press ▲ or ▼ to highlight CH LOCK and press ► to display the CH LOCK menu.
- 6. Press ◀ or ► to highlight CLEAR and clear all channels from the list of locked channels. Press ENTER.
- 7. Press EXIT to return to normal viewing.

Locking the video inputs

With the VIDEO LOCK feature, you can lock out the input sources (VIDEO1, VIDEO2, COLORSTREAM HD, HDMI, PC) and channels 3 and 4. You will not be able to select the input sources with the INPUT button or Channel buttons unless you clear the setting.

To set up the video lock:

- 1. Press TV to select the TV mode.
- 2. Press MENU, then press ◀ or ► to display the LOCKS menu.
- 3. Press \blacktriangle or \triangledown to display the password entering mode.
- 4. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears.
- 5. Press ▲ or ▼ to highlight VIDEO

sources.

6. Press ◀ or ► to select:
• OFF: Unlocks all video input

• VIDEO: Locks VIDEO1, VIDEO2,

- LOCKS LOCK CH LOCK VIDEO LOCK GAME TIMER VIDEO / VIDEO+ OFF
- COLORSTREAM HD, HDMI, PC.
 VIDEO +: Locks VIDEO1, VIDEO2, COLORSTREAM HD, HDMI, PC, channel 3 and channel 4. This option should be used
- if you use the antenna terminal to play a video tape. 7. Press EXIT to return to normal viewing.



INPUT DISPLAY HUTE POWER 1 2 3 Channel Numbers 7 8 9 +10 0 ENT TV CBL/SAT CH PIC SIZE FAV ENTER CH PIC SIZE FAV FAV ENTER EXIT Exit

Note:

After programming CH LOCK, change channels before turning off the television.



Note:

After programming VIDEO LOCK, change channels or press the INPUT key before turning off the television.

Note:

If the remote control does not operate your TV, press the "TV" button on the remote control and try again.

Jsing the TV's Features

To unlock the video inputs:

- 1. Press TV to select the TV mode.
- 2. Press MENU, then press ◀ or ► to display the LOCKS menu.
- 3. Press \blacktriangle or \blacktriangledown to display the password entering mode.
- 4. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears.
- Press ▲ or ▼ to highlight VIDEO LOCK and press ◀ or ▶ to highlight OFF.
- 6. Press EXIT to return to normal viewing.

Setting the GameTimer[™]

With the GameTimer[™] feature, you can automatically activate the VIDEO LOCK feature (VIDEO setting) to set a time limit for playing a video game (30, 60, 90 or 120 minutes).

To set up the GameTimer:

- 1. Press TV to select the TV mode.
- 2. Press MENU, then press ◀ or ► to display the LOCKS menu.
- 3. Press \blacktriangle or \triangledown to display the password entering mode.
- 4. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears.
- 5. Press ▲ or ▼ to highlight GAME TIMER.
- 6. Press ◀ or ► to select a time limit (30 minutes, 60 minutes, 90 minutes, 120 minutes or OFF).
- Press EXIT to return to normal viewing. After the GameTimer is programmed, the display will appear briefly every ten minutes to remind you that the GameTimer is operating.
 When the programmed time is reached, the TV will change channels automatically and enter



đ

PANEL LOCK

• :SELECT

Using the panel lock feature

VIDEO LOCK mode.

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

To lock the panel:

- 1. Press TV to select the TV mode.
- 2. Press MENU, then press ◀ or ► to display the LOCKS menu.
- 3. Press ▲ or ▼ to display the password entering mode.
- 4. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears.
- 5. Press ▲ or ▼ to highlight PANEL

LOCK and press ◀ or ► to highlight ON. If a button on the top panel is

pressed, the message "NOT AVAILABLE" appears.

To unlock the panel:

Press and hold the VOLUME – button on the TV top panel for about 10 seconds until the message "PANEL LOCK:OFF" appears on-screen.

You also can unlock the panel using the menus:

- 1. Press TV to select the TV mode.
- 2. Press MENU, then press ◀ or ► to display the LOCKS menu.
- 3. Press \blacktriangle or \triangledown to display the password entering mode.
- 4. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears.
- 5. Press ▲ or ▼ to highlight PANEL LOCK, and then press ◀ or ► to highlight OFF.

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():ADJUST

Notes:

- Interactive video games that involve shooting a gun type of joy-stick at an on-screen target may not work on this TV.
- To deactivate the GameTimer, set the VIDEO LOCK to OFF (see "Locking the video inputs" page 26).



TV top panel



Using the TV's Features

Note:

If the remote control does not operate your TV, press the "TV" button on the remote control and try again.

Appendix

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Connecting

Labeling channels

Channel labels appear above the channel number display each time you turn on the TV, select a channel, or press the DISPLAY button. You can choose any four characters to identify a channel.

To create channel labels:

- 1. Press TV to select the TV mode.
- Select a channel you want to label.
 Press MENU, then press ◀ or ▶ until
- the OPTION menu appears.
- 4. Press \blacktriangle or \checkmark to highlight CH LABEL.
- Press ► to display the CH LABEL menu. SET/CLEAR will be highlighted.
- 6. Press ◀ or ► to highlight SET, then press ENTER.
- Press ENTER to highlight LABEL.
 Press ◀ or ▶ to enter a character in the first space. Press the button repeatedly until the character you want appears on the person Press El

want appears on the screen. Press ENTER.

 9. Repeat step 8 to enter the rest of the characters. If you would like a blank space in the label name, you must choose an empty space from the list of characters; otherwise, a dash will appear in that space.

10. Repeat steps 1-9 for other chan-

CH LABEL :CH 025 SET LABEL RETURN ©:SELECT ENTER : SET

đ

.

CH002

(i):ADJUST ENTER :SET

OPTION

ON TIMER FAVORITE C CH LABEL

CH LABEL

SELECT

SED / CL LABEL RETURN

channel. 11. Press EXIT to return to normal viewing.

nels. You can assign a label to each

Note:

The character will change as below.

$$- \longleftrightarrow 0 \cdots 9 \longleftrightarrow A \cdots \overline{z}$$

 \leftrightarrow space \leftrightarrow + \leftrightarrow .

To erase channel labels:

- 1. Press TV to select the TV mode.
- 2. Select a channel with a label.
- 3. Press MENU, then press ◀ or ► until the OPTION menu appears.
- 4. Press ▲ or ▼ to highlight CH LABEL.
- Press ► to display the CH LABEL menu. SET/CLEAR will be highlighted.
- 6. Press \blacktriangleleft or \blacktriangleright to highlight CLEAR.
- 7. Press ENTER.
- 8. Repeat steps 1-7 to erase other channel labels.



Note:

If the remote control does not operate your TV, press the "TV" button on the remote control and try again.

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Selecting the video input source

Press INPUT to view a signal from another device connected to your TV, such as a VCR or DVD player. You can select ANT, VIDEO 1, VIDEO 2, ColorStream HD, HDMI or PC depending on which input jacks you used to

connect your devices (see "Connecting Pressing INPUT on the remote your TV" on page 9).



control displays the current signal source (press INPUT again or 0-5 to change)

You also can use the Channel \wedge / \vee buttons to select the video input source. In addition to cycling through your programmed channels (page 23), the Channel \wedge / \vee buttons will also cycle through the video input sources, in the order illustrated below.

> PC < → HDMI ← →ColorStream HD

Labeling the video input sources

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

> OPTION ON TIMER FAVORITE CH CH LABEL

(i):SELECT

.SELECT

(i):ADJUST

. ADJUST

6

/ DVD / DTV SAT / CBL

- : Uses the default label name
- VCR : Video cassette recorder
- DVD : DVD video
- DTV : Digital TV set-top box
- : Satellite box SAT
- CBL : Cable box

To label the video input sources:

- 1. Press TV to select the TV mode.
- 2. Press MENU, then press ◀ or ► to display the OPTION menu.
- 3. Press ▲ or ▼ to highlight VIDEO LABEL.
- 4. Press ► to display the VIDEO LABEL menu.
- 5. Press \blacktriangle or \checkmark to highlight the video source you want to label.
- 6. Press ◀ or ► to select the desired label for that input source.
- 7. Press EXIT to return to normal viewing

Setting the clock

You must set the clock before you can program the ON timer.

To set the clock: (Example: 8:30 AM)

- 1. Press TV to select the TV mode. 2. Press MENU, then press ◀ or ► to
- display the SETUP menu.
- 3. Press ▲ or ▼ to highlight CLOCK SET.
- 4. Press ▶ to highlight the hour position.
- 5. Press \blacktriangle or \blacktriangledown to set the hour, then press ► to highlight the minute position.
- 6. Press \blacktriangle or \blacktriangledown to set the minutes, then press EXIT to return to normal viewing.



Please note the following regarding the HDMI source selection: The HDMI IN jack is not intended for connection to and should not be used with a PC (personal computer). See "Connecting an HDMI or a DVI device to the HDMI input" on page 15 and "Connecting a PC" on page 16 for details.



Note:

If the power source for the TV is interrupted (for example, the power cord is unplugged or a power failure occurs), you will need to reset the clock.

Note:

If the remote control does not operate your TV, press the "TV" button on the remote control and try again.

Connecting

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Using the TV's Features

Appendix

Setting the ON timer

This feature allows you to program the TV to turn on automatically at a set time. If you program the ON TIMER to "DAILY," the TV will turn on every day at the same time to the same channel until you clear the ON TIMER.

To set the on timer: (Example: Turning on the TV to channel 012 at 6:30 AM, DAILY)

- 1. Press TV to select the TV mode.
- 2. Set the clock, if you have not already done so (see above).
- 3. Press MENU, then press \blacktriangleleft or \blacktriangleright to display the OPTION menu.
- 4. Press ▲ or ▼ to highlight ON TIMER.
- 5. Press ◀ or ► to highlight SET, then press ENTER. The ON TIMER menu appears. Press ▶ to set the time.
- 6. Press \blacktriangle or \blacktriangledown to set the desired hour, then press ▶.

| then press ►. | |
|--|--|
| | ON TIMER ON TIMER ► CHOO2 CLEAR RETURN ► |
| | .SELECT .ADJUST |
| 7. Set the desired minutes and channel, | |
| as in step 6. | |
| | ON TIMER 6:50AM CH002 |
| | CLEAR |
| | RETURN ► |
| | ⊕:SELECT ⊕:ADJUST |
| | |
| 8. Press ► to select ONCE or DAILY. 9. Press EXIT to return to normal | |
| viewing. | ON TIMER |
| - | 6:30AM CH012 ONCE / DAILY / CLEAR |
| | RETURN |
| | .ADJUST ENTER : SET |



Note:

After a power failure or disconnection of the power, the timer settings will be lost.

To cancel the on timer:

Select CLEAR in step 8 above. Press EXIT to return to normal viewing.

sing the TV's Features

Note:

If the remote control does not operate your TV, press the "TV" button on the remote control and try again.

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

You can view 480i and 480p format programs in a variety of picture sizes-Natural, TheaterWide, and Full.

The way the image displays in any of the picture sizes will vary depending on the format of the program you are viewing. Select the picture size that displays the current program the way that looks best to you.

Selecting the picture size

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



Natural picture size

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

Natural picture size example: The way the image displays will vary depending on the format of the program you are currently watching.



on a conventional TV screen

Conventional (4:3) picture Conventional (4:3) picture in Natural size on your wide-screen TV

TheaterWide picture size (for 4:3 format programs)

- The center of the picture remains close to its original proportion, but the left and right edges are stretched wider to fill the screen.
- The top and bottom edges of the picture may be hidden.



TheaterWide picture size example

Full picture size (for 16:9 source programs)

- If receiving a 4:3 format program, the picture is stretched wider to fill the width of the screen, but not stretched taller.
- None of the picture is hidden.



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Note:

You also can change the picture size by selecting PICTURE SIZE in the SETUP menu.



Notes:

- The PICTURE SIZE feature is not available for some program formats (such as 1080i or 720p). Such formats will display in Full picture size.
- Using these functions to change the picture size (i.e., changing the height/ width ratio) for any purpose other than your private viewing may be prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

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Note:

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If the remote control does not operate your TV, press the "TV" button on the remote control and try again.

Appendix

Selecting the cinema mode

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

To set the CINEMA MODE to FILM:

- 1. Press TV to select the TV mode. 2. Press MENU, then press ◀ or ►
- until the SETUP menu appears.
- 3. Press ▲ or ▼ to highlight CINEMA MODE, then press \blacktriangleleft or \blacktriangleright to select FILM.

| OFF |
|--------------|
| FILM / VIDEO |
| 0N 16 |
| (i):ADJUST |
| |

To set the CINEMA MODE to VIDEO (off):

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

Using the ASPECT feature

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

| Aspect ratio of signal source | Automatic aspect size (automatically selected when ASPECT is ON) |
|-------------------------------|--|
| 4:3 Normal | Natural |
| 16:9 Full | Full |
| 4:3 Letter box | TheaterWide |
| Not defined | User-set mode |

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

- To turn on the ASPECT feature: 1. Press TV to select the TV mode.
 - 2. Press MENU, then press ◀ or ► until the SETUP menu appears.
 - 3. Press ▲ or ▼ to highlight ASPECT, then press ◀ or ► to select ON.

| L & V | |
|---------------------------------------|----------|
| SETUP | |
| LOSED CAPTION | OFF |
| PICTURE SIZE CINEMA MODE ASPECT | |
| BACK LIGHTING | 16 |
| ():SELECT | @:ADJUST |

sing the TV's Features



Note:

If the remote control does not operate your TV, press the "TV" button on the remote control and try again.

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Setting the sleep timer

You can set the TV so it turns off automatically.

To set the sleep timer:

Repeatedly press SLEEP on the remote control to set the length of time until the TV turns off. The clock will increase 10 minutes for each press of the SLEEP button (0h00m, 0h10m, ...1h50m, 2h00m). After the sleep timer is programmed, the display will appear briefly every ten minutes to remind you that the sleep timer is operating.

To confirm the sleep timer setting:

Press SLEEP one time. The remaining time will be momentarily displayed.

To cancel the sleep timer:

Repeatedly press SLEEP until the display turns to 0h00m.

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. Press TV to select the TV mode.
- 2. Tune the TV to the desired program.
- 3. Press MENU, then press \blacktriangleleft or \blacktriangleright to display the SETUP menu.
- 4. Press ▲ or ▼ to highlight CLOSED CAPTION.



- Press ◀ or ➤ to select the desired Closed Caption mode, as follows:
 - To view captions, select C1 or C2 (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 or T2. 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.

POWER PO

Note:

A closed caption signal may not be decoded in the following situations:

- when a video tape has been dubbed
- when the signal reception is weak
- when the signal reception is non-standard

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Note:

If the remote control does not operate your TV, press the "TV" button on the remote control and try again.

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Adjusting the picture

Selecting the picture mode

You can select four picture modes—Sports, Standard, Movie, and Memory—as described in the following table:

| Mode | Picture Quality |
|---------------------------------------|--|
| SPORTS STANDARD MOVIE MEMORY | Bright and dynamic picture (factory-set) Standard picture quality (factory-set) Movie-like picture setting (factory-set) Your personal preferences (set by you; see "Adjusting the picture quality") |

To select the picture mode:

- 1. Press TV to select the TV mode.
- 2. Press MENU, then press ◀ or ► to display the PICTURE menu.
- 3. Press \blacktriangle or \blacktriangledown to highlight MODE.



- 4. Press \blacktriangleleft or \blacktriangleright to highlight the mode you prefer.
- 5. Press EXIT to return to normal viewing.

Adjusting the picture quality

You can adjust the picture quality to your personal preferences, including the brightness, contrast, color, tint, and sharpness. The qualities you choose will be stored automatically in your TV 's memory so you can recall them at any time.

To adjust the picture quality:

- 1. Press TV to select the TV mode.
- 2. Press MENU, then press \blacktriangleleft or \blacktriangleright to display the PICTURE menu.
- 3. Press \blacktriangle or \triangledown until the item you want to adjust is highlighted.



4. Press \blacktriangleleft or \blacktriangleright to adjust the level.

| Selection | Pres | ssing 🕨 |
|------------|---------|----------|
| BRIGHTNESS | darker | lighter |
| CONTRAST | lower | higher |
| COLOR | paler | deeper |
| TINT | reddish | greenish |
| SHARPNESS | softer | sharper |

5. Press EXIT to return to normal viewing.





Note:

If the remote control does not operate your TV, press the "TV" button on the remote control and try again.

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sing the TV's Features

Using the CableClear®feature

CableClear[®] reduces visible interference in your TV picture. This is useful when receiving a broadcast with a weak signal (especially a Cable channel) or playing a video cassette or disc damaged by repeated use.

To turn on the CableClear® feature:

- 1. Press TV to select the TV mode.
- 2. Press MENU, then press \blacktriangleleft or \blacktriangleright to display the PICTURE menu.
- 3. Press \blacktriangle or \blacktriangledown to highlight CableClear.



4. Press \blacktriangleleft or \blacktriangleright to select ON.

To turn off the CableClear[®] feature: Select OFF in step 4.

Selecting the color temperature

Change the picture quality by selecting from three preset color temperatures—cool, medium, and warm—as described in the following table:

| Mode | Picture Quality |
|--------|-----------------|
| COOL | Blueish |
| MEDIUM | Neutral |
| WARM | Reddish |

To select the color temperature:

- 1. Press TV to select the TV mode.
- 2. Press MENU, then press ◀ or ► to display the PICTURE menu.
- 3. Press \blacktriangle or \blacktriangledown to highlight COLOR TEMPERATURE.



- 4. Press ◀ or ► to highlight the mode you prefer.
- 5. Press EXIT to return to normal viewing.

Resetting your picture adjustments

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

| Mode | sports |
|------------|-------------|
| Brightness | center (25) |
| Contrast | max (50) |
| Color | center (25) |

Tint center (0) Sharpness center (25) Color temperature .. cool

To reset your picture adjustments:

- 1. Press TV to select the TV mode.
- 2. Press MENU, then press \blacktriangleleft or \blacktriangleright to display the PICTURE menu.
- 3. Press \blacktriangle or \blacktriangledown to highlight RESET, and then press \blacktriangleright .

| L. | |
|---|----------|
| PICTURE | |
| ▲ CableClear COLOR TEMPERATURE | OFF |
| RESET | |
| :SELECT | @:ADJUST |





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Note:

If the remote control does not operate your TV, press the "TV" button on the remote control and try again.

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Adjusting the sound

Muting the sound

Press MUTE to temporarily turn off the sound. While the sound is off, the screen will display the word MUTE in the lower right-hand corner. To restore the sound, press MUTE again.

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 DISPLAY.

To listen to stereo sound:

- 1. Press TV to select the TV mode.
- 2. Press MENU, then press ◀ or ► to display the AUDIO menu.
- 3. Press ▲ or ▼ to highlight MTS.
- 4. Press ◀ or ► to highlight STR (stereo).
- Notes:
 - In general, you can leave your TV in stereo mode because the TV automatically outputs the type of sound being broadcast (stereo or mono).
 - If the stereo sound is noisy, select MONO to reduce the noise.



5. Press EXIT to return to normal viewing.

To listen to a second audio program (SAP):

- 1. Press TV to select the TV mode.
- 2. Press MENU, then press ◀ or ► to display the AUDIO menu.
- 3. Press \blacktriangle or \blacktriangledown to highlight MTS.
- 4. Press ◀ or ► to highlight SAP. The TV speakers will output the second audio program instead of normal audio.
- 5. Press EXIT to return to normal viewing.

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 TV to select the TV mode.
- 2. Press MENU, then press ◀ or ► until the AUDIO menu appears.
- 3. Press \blacktriangle or \triangledown to highlight the item you want to adjust.



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

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Note:

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

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

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

Note:

Adjusting the sound quality (bass, treble and balance) does not affect the sound that is output from the headphone jack.

Note:

If the remote control does not operate your TV, press the "TV" button on the remote control and try again.

Using the TV's Features

Resetting your audio adjustments

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

| Bass | center (25) |
|---------|---------------|
| Treble | . center (25) |
| Balance | . center (0) |

To reset your audio adjustments:

1. Press TV to select the TV mode.

- 2. Press MENU, then press ◀ or ► to display the AUDIO menu.
- 3. Press \blacktriangle or \blacktriangledown to highlight RESET, and then press \blacktriangleright .

| L ø | | 6 |
|-------------------------------------|-------------------|---|
| AUDIO | | |
| ▲ WOW SRS 3D FOCUS TruBass | OFF OFF OFF | |
| HDMI RESET | HDMI | |
| ():SELECT | (i):ADJUST | |

Using the StableSound® feature

The StableSound feature limits the highest volume level to prevent extreme changes in volume when the signal source is changed.

To turn on the StableSound® feature:

- Press TV to select the TV mode.
- 2. Press MENU, then press ◀ or ► to display the AUDIO menu.
- 3. Press \blacktriangle or \checkmark to highlight STABLE SOUND.
- 4. Press \blacktriangleleft or \blacktriangleright to highlight ON.

| , s | L K B |
|----------------------------------|-----------------------------------|
| AUDIO | |
| MTS BASS TREBLE BALANCE | STEREO 25 25 0 0 0 |
| STABLE SOUND | ON / OFF |
| ():SELECT | ():ADJUST |

To turn off the StableSound® feature:

Highlight OFF in step 4 above.

Using the WOW[™] surround sound feature

WOW is a special combination of SRS Labs audio technologies that creates a thrilling surround sound experience with deep, rich bass from stereo sound sources. Your TV's audio will sound fuller, richer, and wider. WOW consists of three features; SRS 3D, FOCUS, and TruBass.

To adjust the WOW feature:

- 1. Press TV to select the TV mode.
- 2. Select STEREO mode (see "selecting stereo/SAP broadcasts" on page 36).
- 3. Press MENU, then press ◀ or ► to display the AUDIO menu.
- 4. Press ▼ or ▲ to highlight the desired WOW feature you want to adjust.
 SRS 3D To turn on or off the surround sound effect.
 - FOCUS To turn on or off the vocal emphasis effect.
 - TruBass To select your desired bass expansion level (HIGH, LOW or OFF).



5. Press \blacktriangleleft or \blacktriangleright to adjust the item.

WOW, SRS and (•) symbol are trademarks of SRS Labs, Inc. WOW technology is incorporated under license from SRS Labs, Inc.

Notes:

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(3)

(6)

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Menu

- If the broadcast is monaural, the SRS 3D effect will not work.
- The headphone jack do not output any of the WOW audio features.



Note:

If the remote control does not operate your TV, press the "TV" button on the remote control and try again.

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Selecting the HDMI audio input source

See page 15 for details on connecting an HDMI or a DVI device to the TV's HDMI input. If you connect a DVI device, to hear audio you must also connect the analog audio cables to the HDMI audio IN jacks (see page 15). Set the HDMI audio input setting to "DVI" with this connection.

If you connect an HDMI device and play media with digital audio output, to hear digital audio set the HDMI audio input setting to "HDMI" with this connection. If you connect an HDMI device but play media with analog audio output (for example, certain CDVs do not output digital audio), to hear audio you must also connect the analog audio cables to the HDMI audio IN jacks (see page 15). Set the HDMI audio input setting to "DVI" with this connection.

To select the HDMI audio input source:

- 1. Press TV to select the TV mode.
- 2. Press MENU, then press ◀ or ► to display the AUDIO menu.
- 3. Press \blacksquare or \blacktriangle to highlight HDMI.
- 4. Press ◀ or ► to select HDMI or DVI.



Adjusting the back lighting feature

If your TV is in a bright room, the screen image may be difficult to see. You can use the BACK LIGHTING feature to adjust the screen brightness for improved picture clarity.

To adjust the back lighting:

- 1. Press TV to select the TV mode.
- 2. Press MENU, then press ◀ or ▶ until the SETUP menu appears.
- 3. Press ▲ or ▼ to highlight BACK LIGHTING.



4. Press a ◀ or ► to adjust the screen brightness.

Displaying on-screen information

Press DISPLAY to display the following on-screen information:

- Clock
- Channel number or Video input mode selected
- Channel label (if preset)
- Stereo or SAP (second audio program) audio status
- On timer, Sleep timer (if preset)
- Picture size



Auto power off

The TV will automatically turn off after approximately 15 minutes if it is tuned to a vacant channel or a station that completes its broadcast for the day and stops broadcasting on that channel. This feature does not work in Video input/PC mode.

Understanding the Power Return feature

If the power is cut off while you are viewing the TV and the power is resupplied, the Power Return feature will turn the TV on automatically.

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

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Note:

The cold cathode fluorescent lamp used for the back light on this TV has a limited life. When areas on the screen darken, flicker, or no longer light up, the lamp may be at the end of its life. Contact your nearest Toshiba Authorized Service Station.



Note:

If the remote control does not operate your TV, press the "TV" button on the remote control and try again.

Using the TV's Features

Picture/Audio adjustments in the PC mode

There are a number of picture settings you can adjust to optimize the performance of the unit in PC mode.



Example: Adjust the contrast.

- 1. Press TV to select the TV mode.
- 2. During PC mode, press MENU, then press ◀ or ► to display the PICTURE menu.
- 3. Press ▲ or ▼ to select CONTRAST.
- Press
 I or

 to adjust CONTRAST.
- 5. Press EXIT to return to normal viewing.

DESCRIPTION ABOUT EACH SETTING OPTION

PICTURE menu **BRIGHTNESS:** To adjust the brightness of PC Monitor screen. CONTRAST: To adjust the contrast of PC Monitor screen. HOR POSITION: To adjust the horizontal position of the image on the PC Monitor screen. Each video standard will require a different value for this setting. **VER POSITION:** To adjust the vertical position of the image on the PC Monitor screen. Each video standard will require a different value for this setting. PHASE: This must be adjusted after the frequency has been set to optimize picture quality. CLOCK: To minimize any vertical bars or stripes visible on the screen background. RED/GREEN/BLUE: To adjust the color temperature of the PC Monitor screen. WXGA INPUT: Set to ON, when you select the WXGA mode on the PC.

Resetting your picture/audio adjustments in the PC mode

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

| PICTURE menu | AUDIO menu |
|------------------------|--------------------|
| Brightness center (25) | Bass center (25) |
| Contrast max (50) | Treble center (25) |
| Red center (25) | Balance center (0) |
| Green center (25) | |
| Blue center (25) | |

To reset your picture adjustments:

- 1. Press TV to select the TV mode.
- 2. Press MENU during PC mode.
- 3. Press \blacktriangleleft or \blacktriangleright to select the desired menu.
- 4. Press \blacktriangle or \triangledown to highlight RESET, and then press \blacktriangleright .



Notes:

- · If you wish to change the on-screen language, follow the steps 1-4 on page 22.
- · If no buttons are pressed for more than approx. 60 seconds, the PC Monitor Menu screen will return to normal Monitor screen automatically.
- The PC Monitor Menu settings are not effective for normal TV mode, DVD mode or external input mode.

AUDIO menu

BASS/STREBLE/BALANCE: To adjust the sound quality of PC mode

| | mode: |
|---------------|--|
| STABLE SOUND: | To turn on or off the |
| | StableSound [®] feature in PC |
| | mode. |
| WOW SRS 3D: | To turn on or off the surround |
| | effect in PC mode. |
| WOW FOCUS: | To turn on or off the vocal |
| | emphasis effect in PC mode. |
| WOW TruBass: | To select your desired bass |
| | expansion level (HIGH, LOW or |
| | OFF) in PC mode. |



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Appendix

Note:

If the remote control does not operate your TV, press the "TV" button on the remote control and try again.

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Appendix Troubleshooting

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

۲

| Symptom | Solution |
|--|---|
| TV will not turn on | Make sure the connection of the AC adapter and AC cord, 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. The MTS feature may be in SAP mode. Select STR or MONO in the MTS menu. |
| Poor sound, picture OK | The station may have broadcast difficulties. Try another channel. The MTS feature may be in SAP mode. Select STR or MONO in the MTS menu. |
| Poor picture, sound OK | Check the antenna connections. The station may have broadcast difficulties. Try another channel. Adjust the PICTURE menu. |
| Poor reception of broadcast channels | The station may have broadcast difficulties. Try another channel.Check the antenna connections. |
| Cannot receive above channel 13 | Make sure TV/CABLE is set to CABLE mode. |
| Unable to select a certain channel | The channel may be blocked by CH LOCK feature, or erased with the add/ erase feature. |
| Cannot access signal input sources (Video1, Video2, ColorStream HD, HDMI and PC) and/or Channels 3 and 4 | Check the VIDEO LOCK feature. |
| Multiple images | The station may have broadcast difficulties. Try another channel.Use a highly directional outdoor antenna. |
| Poor color or no color | The station may have broadcast difficulties. Try another channel. Adjust the TINT and/or COLOR in the PICTURE menu. |
| Black box on screen | Select OFF in the Closed Caption menu to turn off the Closed Caption Text mode. |
| No stereo or SAP sound from a known MTS broadcast | Make sure the MTS feature is set properly (AUDIO menu). |
| The remote control does not operate | Make sure the TV • CBL/SAT • VCR • DVD mode is set properly. Remove all obstructions between the remote control and the TV. The remote control batteries may be dead. Replace the batteries. |
| The top panel buttons do not operate | Check the PANEL LOCK feature. |
| Poor composite or S-video picture | If the TV is connected to an external A/V device (e.g., DVD player, video game system, set-top box, etc.) always try to use the ColorStream video jacks (and corresponding audio jacks) or the HDMI input (if available) for connection to such external A/V device. This will reduce the amount of video processing to be performed by the television. |
| Picture and sound are out of sync | As with all products that contain a digital display, in rare instances, when viewing certain content (e.g., television broadcasts, video games, DVDs) or with varous audio system connections, you may notice that the picture and sound are slightly out of sync. This phenomenon can be caused by various factors including, without limitation, video processing within the TV, video processing in an attached gaming system, and video processing/different compression rates used by broadcasters in their programming. You may want to try one or more of the following suggestions, which may help to reduce the effect of this phenomenon: If the TV is connected to an A/V receiver that has a programmable audio delay feature, use this feature to help synchronize the sound to the picture If you notice this phenomenon only on certain TV channels, please contact your local broadcast, cable, or satellite provider to inform them of this issue. |

Specifications

Notes:

- This model complies with the specifications listed below.
- Designs and specifications are subject to change without notice.
- This model may not be compatible with features and/or specifications that may be added in the future.

| LCD panel | 20.04 inches (508.9 mm diagonal)(Screen size is approximate.) | | |
|---------------------------|--|-------------------------|--|
| Display method | Color TFT LCD | | |
| Number of pixels | 1366 (Horizontal) x 768 (Vertical) | | |
| Television system | NTSC standard | | |
| Tuner type | F-Synth | ĕ | |
| Channel coverage | VHF: 2 – 13 | B | |
| | UHF: 14 – 69 | ec | |
| | Cable TV: 4A, A-5 – A-1, A-I, J – W, W+1 – W+84 | Ŭ, | |
| Antenna input | VHF/UHF 75 ohm | DL | |
| Power source | 120V AC, 60 Hz with supplied AC adapter | X | |
| Power consumption | 100 W with supplied AC adapter | | |
| Audio power | 2.5W + 2.5 W | Connecting your TV | |
| Speaker type | 1.8 x 3.9 inches (45.7 x 99.1 mm), 16 ohm x 2 | | |
| Video/Audio terminals | S-VIDEO INPUT | | |
| | Y-INPUT: 1V (p-p), 75 ohm, negative sync., Mini DIN 4pin x 1 | | |
| | C-INPUT: 0.286V (p-p) (burst signal), 75 ohm | | |
| | VIDEO/AUDIO INPUT | | |
| | VIDEO: 1V (p-p), 75 ohm, negative sync., pin jack x 2 | | |
| | AUDIO: 150 mV (rms) (30% modulation equivalent, 47k ohm), pin jack (L/R) x 5 | ပ | |
| | ColorStream [®] (component video) INPUT | et | |
| | Y: 1V (p-p), 75 ohm | E E | |
| | P _R : 0.7V (p-p), 75 ohm | <u> </u> | |
| | P _B : 0.7V (p-p), 75 ohm | - p | |
| | HEADPHONE | Setting up your TV | |
| | Ø3.5mm stereo mini jack x 1 | Ĕ | |
| | HDMI INPUT: HDMI compliant (type A connector) | | |
| | HDCP compliant | < | |
| | E-EDID* compliant | | |
| | Suggested scan rates: 1080i, 480p, 480i, 720p | | |
| | HDMI Audio: 2-channel PCM | | |
| | 32/44.1/48 kHz sampling frequency | | |
| | 16/20/24 bits per sample | E | |
| | PC Monitor Input | <u>s</u> | |
| | Mini-Dsub 15pin x 1 | 0 ng | |
| Dimensions | Width: 21-13/16 inches (554 mm) | | |
| | Height: 17-5/8 inches (448 mm) | le | |
| | Depth: 8-11/16 inches (220 mm) | | |
| Weight | 19.8 lbs. (9.0 kg) | | |
| Supplied accessories | Remote control (CT-885) with two size "AAA" batteries | т Т | |
| | AC adapter | မို့ရ | |
| | AC cord (for AC adapter) | Ising the TV's Features | |
| | Owner's Manual (This booklet) | re | |
| | | <i>•</i> | |
| | WARNING: Always use a Toshiba-approved wall | | |
| | bracket to wall mount this television. The use of any | | |
| * F-EDID - Enhanced-Exten | ided Display Identification will bracket other than a Toshiba-approved wall | 4 | |

* E-EDID = Enhanced-Extended Display Identification.

wall bracket other than a Toshiba-approved wall bracket to wall mount this television could result in serious bodily injury and/or property damage. For more information call TCL's Customer Service Department at 1-800-268-3404.

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Limited Canada Warranty for LCD Televisions, 20" and smaller

Toshiba 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 LCD TELEVISION AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

LCD TELEVISIONS PURCHASED IN CANADA AND USED ANYWHERE OUTSIDE OF CANADA, INCLUDING, WITHOUT LIMITATION, THE U.S.A. AND MEXICO, ARE NOT COVERED BY THESE WARRANTIES.

LCD TELEVISIONS PURCHASED ANYWHERE OUTSIDE OF CANADA, INCLUDING, WITHOUT LIMITATION, THE U.S.A. AND MEXICO, AND USED IN CANADA ARE NOT COVERED BY THESE WARRANTIES.

Limited One (1) Year Warranty on Parts and Labour

TCL warrants this LCD 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. YOU MUST DELIVER THE ENTIRE TELEVISION TO AN AUTHORIZED TCL SERVICE DEPOT. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE SERVICE DEPOT.

Rental Units

The warranty for LCD Television rental units begins on the date of the first rental or thirty (30) days after the date of shipment to the rental firm, whichever comes first.

Limited Warranty for Commercial Units

TCL warrants LCD Televisions that are sold and used for commercial purposes as follows: all parts are warranted against defects in materials or workmanship for a period of ninety (90) days 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. YOU MUST DELIVER THE ENTIRE TELEVISION TO AN AUTHORIZED TCL SERVICE DEPOT. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE SERVICE DEPOT.

Owner's Manual and Product Registration

Read this owner's manual thoroughly before operating this LCD Television.

Register your LCD Television online at **www.toshiba.ca** as soon as possible. By registering your LCD Television you will enable TCL to bring you new products specifically designed to meet your needs and help us to contact you in the unlikely event a safety notification is required. Failure to register your LCD Television does not diminish your warranty rights.

Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

- You must retain your original bill of sale or provide other proof of purchase.
- (2) All warranty servicing of this LCD TV must be made by an Authorized TCL Service Depot.
- (3) The warranties from TCL are effective only if this LCD Television is purchased in Canada from an authorized TCL dealer and operated in Canada.
- (4) Labour service charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by this warranty. Reception problems caused by inadequate antenna systems, misaligned satellite dishes, cable television distribution, VCRs, DVD players/ recorders, personal computer level IEEE-1394 devices, and any other connected signal source device are your responsibility.

(5) Warranties extend only to defects in materials or workmanship as limited above, and do not extend to any LCD Television or parts that have been lost or discarded by you or to damage to the LCD Television or parts caused by fires, 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; use or malfunction through simultaneous use of this LCD Television and connected equipment; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible.

How to Obtain Warranty Service

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

- To find the nearest TCL Authorized Service Depot, visit TCL's web site at www.toshiba.ca.
- (2) You must include the original bill of sale (or a copy thereof) or other proof of purchase along with the entire LCD Television to the Authorized Service Depot. You are responsible for all inbound transportation and insurance charges for the LCD Television to the Authorized Service Depot.

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

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TOSHIBA OF CANADA LIMITED

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