

ntroduction

uction

OWNER'S MANUAL LCD TV

Connecting your TV

COLOR STREAM® HD





HDM

THEATERWIDE HD

(IDTV

setting up your TV

Using the TV's Features

23HL84

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Owner's Record

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

Model number:

Serial number:

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IMPORTANT SAFEGUARDS

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 ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



CAUTION RISK OF ELECTRIC SHOCK!



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NOUSER-SER VICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

DO NOT OPEN.



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 appliance.

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*.



ENERGY STAR

ENERGY STAR® qualified TV. Products that earn the ENERGY STAR prevent green house gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy. ENERGY STAR and the ENERGY STAR mark are registered U.S. marks.

NOTE TO CATV INSTALLERS

This is a reminder to call the CATV system installer's attention to Article 820-40 of the NEC, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to 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.

We Care!

 $\hfill\Box$ The consumer electronics industry is committed to making home entertainment enjoyable and safe.

☐ The Consumer Electronics Association formed the Home Entertainment Support Safety Committee, comprised of TV and consumer electronics furniture manufacturers, to advocate children's safety and educate consumers and their families about television safety.

Tune Into Safety

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



2500 Wilson Blvd. Arlington, VA 22201 U.S.A. Tel. 703-907-7600 Fax 703-907-7690 www.CE.org

CEA is the Sponsor, Producer and Manager of the International CES

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FCC compliance information

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.

Federal Communications Commission (FCC):

This equipment complies with Part 15 of the FCC rules.

FCC Declaration of Conformity Compliance Statement (Part 15):

The Toshiba 23HL84, LCD TV Combination complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference that may cause undesired operation.

The party responsible for compliance to these rules is:

Toshiba America Consumer Products, Inc.

82 Totowa Rd. Wayne, NJ 07470.

Ph: (800) 631-3811

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by removing and applying power to the equipment, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications to this equipment not expressly approved by Toshiba could void the user's authority to operate this equipment.

COPYRIGHT: It is permissible to record television programs, films, video tapes and other material only in the event that third party copyrights and other rights are not violated.

1. READ INSTRUCTIONS

All the safety and operating instructions should be read before the unit is operated.

2. RETAIN INSTRUCTIONS

The safety and operating instructions should be retained for future reference.

3. HEED WARNINGS

All warnings on the unit and in the operating instructions should be adhered to.

4. FOLLOW INSTRUCTIONS

All operating and use instructions should be followed.

5. CLEANING

Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Clean only with a dry cloth.

6. ATTACHMENTS

The manufacturer of this unit does not make any recommendations for attachments, as they may cause hazards.

7. WATER AND MOISTURE

Do not use this unit near water. For example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.

8. ACCESSORIES

Do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious injury, and serious damage to the unit.

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.



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

PORTABLE CART WARNING (symbol provided by RETAC)

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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

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.



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

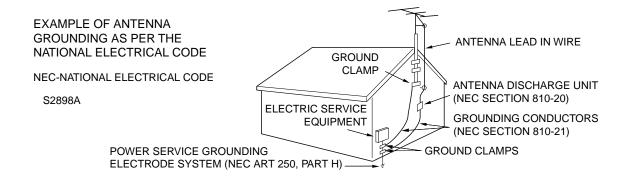
Do not overload wall outlets and extension cords, as this can result in a risk of fire or electric shock.

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.



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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:

- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the unit.
- If the unit has been exposed to rain or water.
- If the unit does not operate normally by following the operating instructions. Adjust only those 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.
- When the unit exhibits a distinct change in performance, this indicates a need for service.

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.

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

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 a 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.

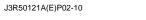
24. LCD

Do not press on or jolt the LCD panel. Doing so may cause the LCD panel glass to break and injury may occur. Should the LCD panel be broken and liquid leaks out, do not inhale or swallow it. Doing so may cause poisoning. If you have got it into your mouth, wash it out and consult your doctor. If your hands or clothes have touched it, wipe them with alcohol and a cleaning cloth and then wash them well.

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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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

- Place the unit on a level surface. Do not use it on a shaky or unstable surface such as a wobbling table or inclined stand. Doing so may damage 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.

Notes on cleaning

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

Notes on LCD

- The color LCD is manufactured using extremely high precision technology, but even so may include certain pixels that do not operate properly (that do not light, that remain lit constantly, etc.). We do our best to keep the number of these defective pixels to a minimum, but please understand that they cannot be completely eliminated even with the most advanced manufacturing technologies available today.
- 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.)





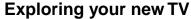


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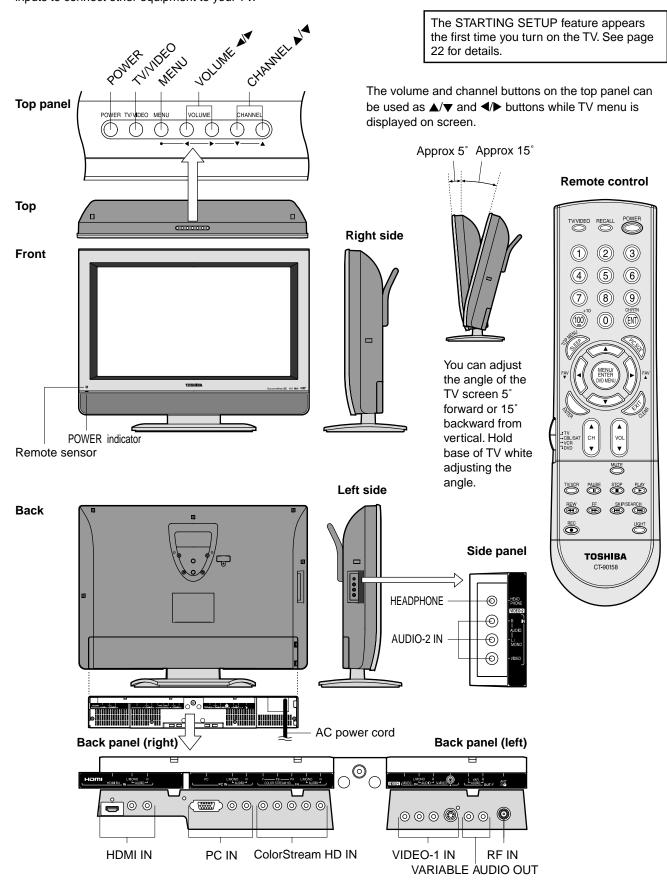
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You can operate your TV by using the buttons on the top panel or the remote control. The side and back panels provide the inputs to connect other equipment to your TV.



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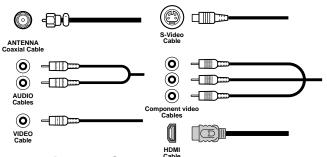
Selecting a location for the TV

- 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

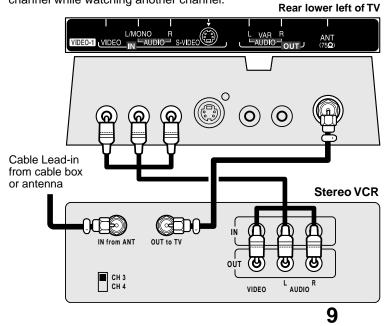
If you haven't connected electronic equipment before, or you have been frustrated in the past, you may wish to read this section. (Cables are not supplied.)

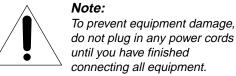
- A coaxial cable is the standard cable that comes in from your antenna or cable converter box. Coaxial cables use "F" connectors.
- Standard A/V (audio/video) cables are usually color coded according to use: yellow for video and red and white for audio. The red audio cable is for the stereo right channel, 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.





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.

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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.

Prom Cable

Option 1:

Option 2:

Cable Box

Cable Box

Cable Box

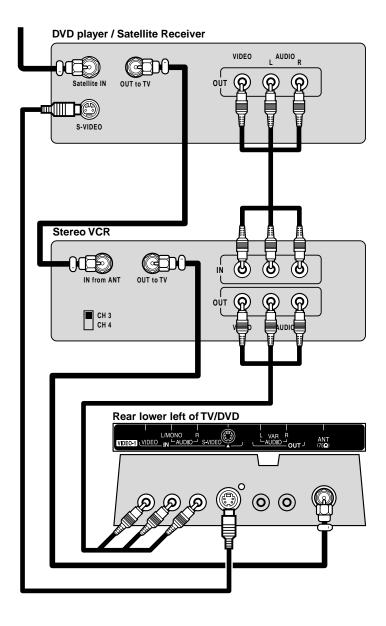
A/B Switch AB





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.



You will need:

- · three coaxial cables
- two sets of standard A/V cables
- one S-video cable

Note:

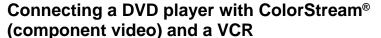
You can use a standard video cable instead of the S-video cable, but the picture quality will decrease. If you use an S-video cable between the TV and DVD player/satellite receiver, make the audio connections but remove the standard video cable. Do not connect both an S-video and a standard video cable to VIDEO1 at the same time or the picture performance will be unacceptable.

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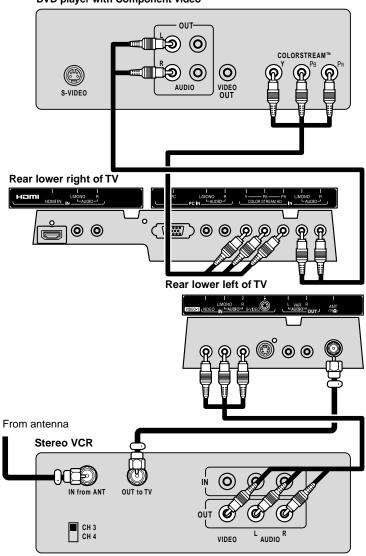
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This connection allows you to watch DVD, VCR, or TV programs and record TV programs. You can record from one source while watching a program from another source. Your TV is capable of using ColorStream (component video). Connecting your TV to a component video compatible DVD player, such as a Toshiba DVD player with ColorStream®, can greatly enhance picture quality and performance.

DVD player with Component video



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.

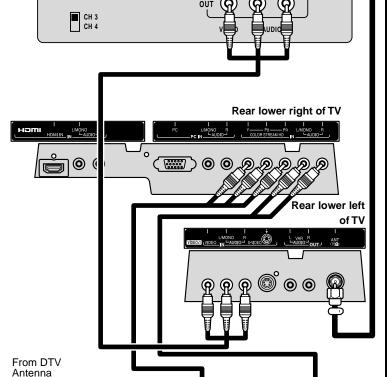
The unauthorized recording, use, distribution or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

Connecting a 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.

From Antenna
Stereo VCR
IN from ANT OUT to TV



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 or HDMI 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.

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.

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DTV Receiver with Component video



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

Side panel of TV

S-VIDEO VIDEO AUDIO

S-VIDEO VIDEO AUDIO

Rear lower left of TV

Rear lower left of TV

You will need:

• one set of standard AV cables

You will need:

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

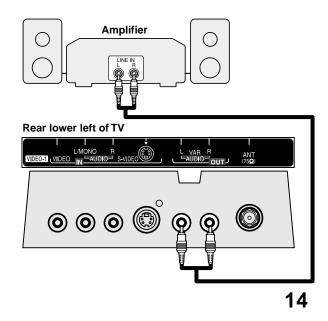
Note:

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 audio system

This connection allows you to use an audio amplifier and external speakers, and adjust the audio level using the TV's remote control. To control the audio, turn on the TV and the stereo amplifier, and turn off the TV's built-in speakers (see "Turning off the built-in speakers" on page 42).



You will need:

• one pair of standard audio cables

Note:

To hear sound when using an external audio amplifier, the volume of both the TV and the amplifier must be set above 0 (zero). For example, if the volume of the TV is set to 0, you will not be able to hear any sound, even if the volume of the amplifier is at its highest level.

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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 hight 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 16.4ft (5m).

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

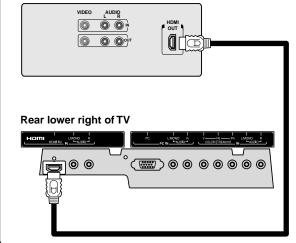
You must set the HDMI audio input setting to HDMI in the AUDIO menu (see page 42).

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 42).

Note: If you connect an HDMI device and analog audio cables (as described in the previous paragraph), and then you play media with digital audio output, to hear digital audio you must set the HDMI audio input setting to "HDMI" (page 42).

HDMI device

J3R50121A(E)P11-16



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 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)

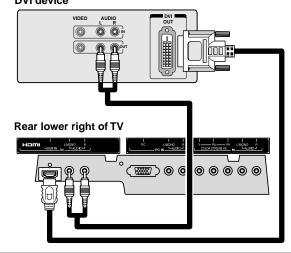
For proper operation, the length of an HDMI-to-DVI adapter cable should not exceed 9.8 ft (3m). The recommended length is 6.6 ft (2m).

• 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 42).

DVI device







Connecting a PC (Personal Computer)

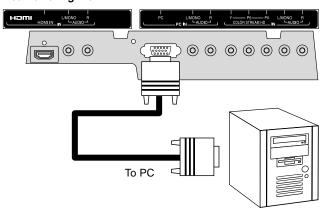
Before you connect this TV to your PC, change the adjustment of your PC's Resolution and Refresh rate. See "Monitor Display modes" at right

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 back 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.

Press TV/VCR and number button 5 on the remote control to select PC mode.

Switch on the computer. The TV can be operated as the computer monitor.

Rear lower right of TV



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

To return to TV mode:

Press TV/VCR again.

Notes:

- The current signal source does not display when you return to TV mode.
- The form of a character of OSD in PC mode differ from TV mode.





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, VCR and DVD player models 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 first have to program your remote control. (See "Programming the remote control for use with a cable TV converter/satellite receiver, VCR or DVD player" on page 18.)

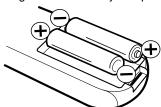
Installing the remote control batteries

To install the batteries:

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



2. Install two "AA" 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.

Note:

The TV remote control may or may not operate your cable TV converter/satellite receiver, VCR or DVD player. Refer to your owner's manuals supplied with the equipment to see which features are available. In addition, the original controllers may have features not available on this remote control. If you would like to continue to use these features, you may want to use the original remote control.

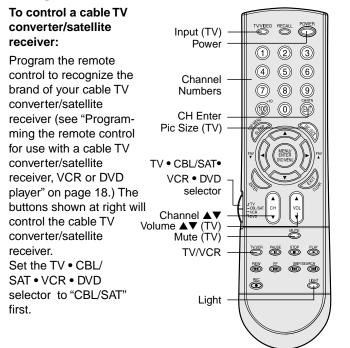
Caution:

Never throw batteries into fire.

Note:

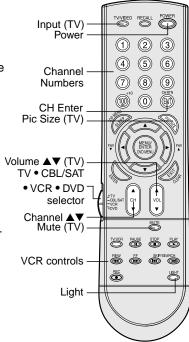
- · Always dispose of batteries in a designated disposal location.
- · Batteries should always be disposed of with the environment in mind. Always dispose of batteries in accordance with applicable laws and regulations.
- Never mix battery types or use new and used batteries in combination.
- · When necessary to replace batteries in the remote control, always replace both batteries
- 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.

Using the remote control with a cable TV converter/satellite receiver, VCR or DVD player



To control a VCR: Program the remote control to recognize the brand of your VCR (see "Programming the remote control for use with a cable TV converter/satellite receiver, VCR or DVD player" on page 18.) The buttons shown at right will then control

the VCR. Set the TV • CBL/ SAT • VCR/DVD selector to "VCR" first.

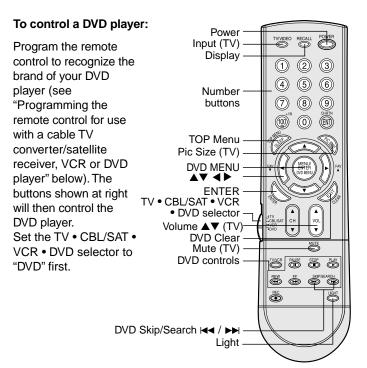


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12/08/2004, 10:50 AM



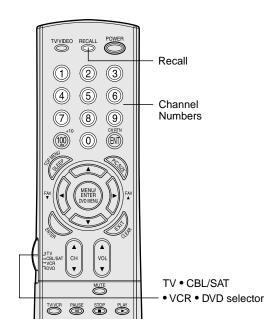
Programming the remote control for use with a cable TV converter/satellite receiver, VCR or DVD player

This remote control is pre-programmed to operate Toshiba satellite receivers, VCRs and DVD players. To control cable TV converters/ satellite receivers, VCRs and DVD players other than Toshiba models, 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 brand.
 If more than one code is listed, try each one separately until you find the one that works.
- 2. If you are programming the remote control to operate your:
 - Cable TV converter/satellite receiver: Set the TV CBL/SAT VCR DVD selector to "CBL/SAT."
 - VCR: Set the TV CBL/SAT VCR DVD selector to "VCR."
- DVD player: Set the TV CBL/SAT VCR DVD selector to "DVD."
- While holding down RECALL, press the Channel Number buttons to enter the three-digit code for your cable TV converter/satellite receiver, VCR or DVD player brand.
- Point the remote control at the cable TV converter/satellite receiver, VCR or DVD player, and press POWER to test the code.
 - If the cable TV converter/satellite receiver, VCR or DVD player responds, you entered the correct code.
 - If the cable TV converter/satellite receiver, VCR or DVD player does not respond, repeat steps 1–4 using another code.
- 5. Set the TV CBL/SAT VCR DVD selector to "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	



Note:

- When shipped from the factory, the remote control is set to operate your TV.
- If you do not enter the code within 10 seconds from step 1 or if you enter a code not listed below, this operation is canceled.
- 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.

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-

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,		086, 089, 091, 096	_	088, 098, 101, 105
	096, 098	Magnavox	072, 096	Sears	095
Archer	065, 092, 097, 099	Memorex	091, 092, 104	Signature	062
Cableview	064, 094	Multi Canal	090	Signature 2000	096
Century	092	Novavision	101	Sprucer	081, 085
Citizen	090, 092, 097	Panasonic	081, 083, 085	Starcom	069, 082, 087, 096,
Contec	083, 085, 086, 088,	Philco	087		103, 104
İ	093, 098	Philips	066, 067, 068, 070,	Stargate	069, 090
Diamond	093	-	072, 073, 074, 075,	Sylvania	095, 100
Eagle	091		091, 092	TeleView	090
GE	061, 062	Pioneer	076, 077	Texscan	100
Gemini	069, 070, 094	Proscan	061, 062	Tocom	071, 084, 085
General Instruments	062, 089, 096	Radio Shack	092, 097, 099	U. S. Electronics	087, 096, 098
Hamlin	093	RCA	064, 081	United Cable	082
Hitachi	062, 095, 096	Realistic	065	Universal	065, 092, 097, 099,
Jasco	097	Recoton	102		102, 103
I		Samsung	077, 090	Wards	096

Satellite

Brand	Code	Brand	Code	Brand	Code
Alphastar	038, 059	Hughes Network	019	Realistic	030
Chaparral	034	Systems		Samsung	059
DISH Network	057	Intersat	048	Sony	014, 055
Drake	020, 040, 044, 046,	Janeil	027	Star Choice	057
	050, 053	JVC	017, 057	Star Trak	025, 026, 037, 054
Echostar	018, 041, 051	Kenwood	029	STS	024
Express Vu	057	Magnavox	060	Toshiba	000, 001, 002, 003,
Fujitsu	027	Optimus	058		004, 005, 006, 007,
GÉ	008, 009, 013	Pansat	036, 052		020, 031, 056
General Instruments	010, 011, 012, 022,	Primestar	015, 042	Uniden	021, 028, 030, 032,
	023, 031, 049	Proscan	008, 009, 013		035, 039, 043, 045,
Hitachi	033	Radio Shack	022, 023, 030		047, 058
Hughes	033	RCA	008, 009, 013, 016	Zenith	027

[For VCR Mode] VCR

Brand	Code	Brand	Code	Brand	Code
Admiral	049	Fuji	004, 041	Marantz	005, 006, 007, 012,
Aiko	019	Funai	018, 073	Iviararitz	014, 026, 053, 067
Aiwa	018	Garrard	018	Memorex	007, 009, 010, 016,
Akai	003, 004, 037, 038,	GE	001, 002, 009, 040,	Memorex	018, 034, 049, 063,
Akai	039, 058, 069	GE	042, 048, 056		065, 066, 068, 075,
Audiovox	010	Go Video	056, 059, 061, 081		079
Bell & Howell	007, 068	Goldstar	005, 010, 014, 054,	MGA	020, 028, 039
Broksonic	007, 008	Golusiai	056, 065, 067	MGN	056
Calix	010	Gradiente	018. 065	Minolta	024, 025, 035, 063
	026	Harman Kardon	005	Mitsubishi	
Carver CCE	019	Hitachi	024, 025, 035, 037,	IVIIISUDISI II	020, 024, 025, 028, 039, 043, 065
Citizen	009, 010, 011, 012,	Tillaciii	042, 063, 070, 080	Montgomery Ward	049
Citizeri	013, 014, 015, 019,	JBL	076	Motorola	049
	057, 073	JC Penney	005, 006, 007, 008,	MTC	009, 046, 061
Colortyme	005	JC Perifiey	009, 010, 023, 024,	Multitech	009, 046, 061
Craig	009, 010, 016, 061,		025, 026, 035, 056,	NEC	005, 012, 018
Claig	065, 079		061, 063, 065	INLO	014, 037, 043, 053,
Curtis Mathes	001, 005, 009, 012,	Jensen	024, 025, 037		054, 067, 070
Curus Maures	014, 040, 048, 053,	JVC	005, 006, 007, 014,	Nikko	010
	056, 057	300	037, 043, 062, 063,	Noblex	009
Daewoo	011, 013, 015, 017,		068, 082	Optimus	010, 049, 065
Daewoo	018, 019, 057, 078	Kenwood	005, 006, 007, 012,	Optonica	031
Daytron	078	Renwood	014, 037, 043, 053,	Orion	054, 057, 062, 065,
Denon	063		068, 071	Onon	068. 072
Dimensia	001, 048	Kodak	010	Panasonic	036, 045, 046, 057,
Electrohome	010, 020, 065	LG	010	i anasonic	061, 072, 079
Emerson	003, 008, 010, 011,	Llovds	053, 073, 079	Pentax	012, 024, 025, 035,
LINCISON	017, 018, 020, 028,	Logik	061	1 Cittax	042, 053, 063
	039, 054, 057, 062,	LXI	010	Pentex Research	014
	065, 068, 072	Magnasonic	061, 065, 078	Philco	026, 027, 063
Fisher	007, 016, 021, 022,	Magnavox	026, 027, 034, 044,	Philips	026, 027, 003
1 101101	023, 057, 064, 068,	Wagnavox	057, 061, 072	Pioneer	006, 024, 043, 055
	070, 071, 079		331, 331, 372	1 1011001	000, 024, 040, 000





VCR (Continued)

Brand	Code	Brand	Code	Brand	Code
Portland	012, 013, 015	Sanyo	007, 009, 016, 054,	Tashiko	010
Proscan	001, 002, 048		064, 068, 071, 075,	Tatung	037
Proton	061		079, 085	Teac	018, 029, 037
Quasar	045	Scott	008, 011, 017, 028,	Technics	036
Radio Shack	010, 031, 065		030, 057, 065, 072	Teknika	010, 018, 065
Radio Shack/	007, 009, 010, 016,	Sears	007, 010, 016, 021,	Toshiba	000, 011, 021, 023,
Realistic	018, 020, 021, 022,		022, 023, 024, 025,		024, 028, 030, 039,
	031, 049		035, 053, 057, 063,		057, 074, 078, 079
Radix	010		064, 065, 068, 071,	Totevision	009, 010, 065
RCA	001, 002, 003, 009,		075, 079	Unitec	073
	024, 025, 029, 035,	Sharp	013, 020, 031, 049,	Unitech	009
	040, 042, 045, 048,		051, 060, 066	Vector Research	005, 006, 011, 012,
	055, 056, 063, 071,	Shintom	004, 025, 032, 061	\".". 0 .	053
Desire	083	Signature	049	Video Concepts	005, 006, 011, 012,
Realistic	007, 009, 010, 011,	Signature 2000	075	\\\ \ -	039, 053
	016, 018, 020, 021,	Singer	047, 061	Wards	009, 010, 011, 016,
	022, 031, 049, 051,	Sony	004, 032, 033, 041,		018, 020, 024, 025,
	056, 060, 065, 075, 079		052, 058, 070, 074, 076, 077, 080		031, 035, 049, 051, 056, 057, 060, 065,
Ricoh	047	STS	076, 077, 080		066, 079
Runco	034	Sylvania	018, 026, 027, 028,	White Westinghouse	073
Samsung	009, 011, 038, 056,	Sylvania	044, 072	XR-1000	018
Samsung	073, 084	Symphonic	018, 051, 053, 073,	Yamaha	005, 006, 007, 014,
Sansui	006, 037, 043, 061	Symphonic	079	I amana	037, 053
Carioai	333, 337, 040, 001	Tandy	007	Zenith	004, 032, 034, 041,
1		I		I	047, 069, 086

TV/VCR Combo

Brand	Code	Brand	Code	Brand	Code	
Action	078	Precision	078	Toshiba	057	
GE	059, 062	Quasar	065	Zenith	065	
Goldstar	065	Realistic	079	Totevision	009, 010, 065	
Panasonic	065	Sonv	074			

[For DVD Mode] DVD

Brand	Code	Brand	Code	Brand	Code
Aiwa	006, 015	Kenwood	037	Sampo	060
Apex	016, 017	Konka	008, 009	Samsung	061, 062, 086, 090
BOSE	097 [°]	Magnavox	004, 038	Sansui	073
Broksonic	018	Memorex	039	Sanyo	063, 091
Clarion	019	Mintek	040	Sharp	064, 067
Classic	020	NAD	026	Sherwood	074
Daewoo	021	Nakamichi	041	Sony	011, 012, 065, 066,
Denon	022, 023, 024, 025	Norcent	043	•	068, 069, 070
Emerson	026, 027	Onkyo	044	Sylvania	027
Fisher	028	Oritron	058	Teac	071
Funai	027	Panasonic	010, 045, 046, 047,	Technics	072
GE	001, 029, 030		048, 049, 050	Techwood	075
Go Video	087	Philips	004, 051	Toshiba	000, 013, 076, 077,
GPX	031	Pioneer	052, 053, 054, 055		078
Hitachi	005, 032, 033, 034,	Proscan	001, 056	Yamaha	079, 080, 081
	035	Qwestar	057, 058	Zenith	014, 082, 092
JVC	003, 007, 036, 042,	RCA	001, 002, 059, 089		
	088				

Portable DVD

Brand

Brand	Code	Brand	Code	Brand	Code
Aiwa Audiovox	093 094, 095	Panasonic	024,096,099	RCA	098
HTIB					

Brand

Panasonic

[For VCR and DVD Mode]

Code

DVD/VCR Combo

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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Code

084



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Brand

Venturer

Code

Learning about the remote control

POWER turns the TV on and off

SLEEP programs the TV to turn off at a set time (page 39)

TV/VIDEO selects the video input source (page 29)

CH ▲ and ▼ cycles through programmed channels (page 23)

TV • CBL/SAT • VCR • DVD select TV, CABLE/SATELLITE, VCR or DVD mode (page 17)

CHANNEL NUMBERS allow direct access to channels (page 24)

VOL ▲ and ▼ adjusts the volume level

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

MENU/ENTER allows access to programming menus, and sets programmed menu information (page 22)

FAV ▲ and ▼ cycle through favorite channels (page 24)

MUTE turns off the sound (page 40)

RECALL displays status information on-screen (page 26)

EXIT exits programming menus (page 22)

PIC SIZE cycles through the five picture sizes: Natural, TheaterWide 1, 2, 3, and full (page 32)

LIGHT lights all keypads for 5 seconds. The lighting time is extended for 5 seconds by pushing one of keys.

STOP stops a videotape/DVD

REC starts recording a videotape

PLAY plays a videotape/DVD

FF fast forwards a videotape/DVD

REW rewinds a videotape/DVD

PAUSE pauses a videotape/DVD

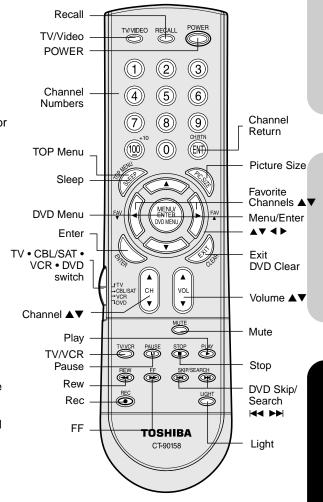
TV/VCR toggles between TV and VCR modes when viewing while recording

DVD SKIP/SEARCH ► skips DVD chapter

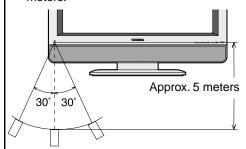
DVD CLEAR clears input data in DVD mode

TOP MENU allows access to DVD TOP menu

DVD MENU allows access to DVD menu



- · Aim the remote control at the remote sensor and press control buttons to operate.
- Operate the remote control within 30° angle on either side of the remote sensor, up to a distance of approx. 5 meters.





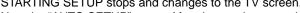


Starting setup

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 connection is made!

- 1. 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.
- 2. Press ▲ or ▼ to select "TV" or "CABLE", then press ENTER.
- 3. 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.

 4. Now the "AUTO SETUP" starts. After the starting setup is completed, 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

- · 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:

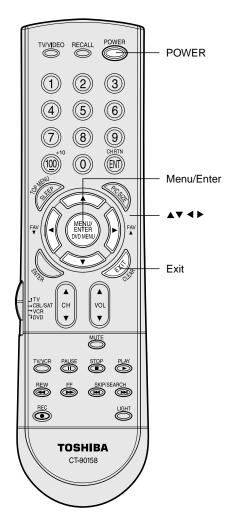
1. Press MENU, then press ◀ or ▶ until the SETUP menu appears.



2. Press ▲ or ▼ to highlight LANGUAGE.



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



Note:

The position and size of the on screen menu changes for some program format (such as 1080i or 720p).





Adding channels to the TV's memory

When you press CH \triangle or ∇ , 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 MENU, then press ◀ or ▶ to display the SETUP menu.
- 2. 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.



- 4. Press ▼ until the CH PROGRAM selection is highlighted.
- 5. Press ◀ or ▶ to start channel programming. The TV will automatically cycle through all the TV or Cable channels (depending on which you selected), and store all active channels in the channel memory. While the TV is cycling through the channels, the message "PROGRAMMING NOW-PLEASE WAIT" appears.
- 6. When channel programming is complete, the message "COMPLETED" appears.
- 7. Press CH ▲ or ▼ 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. Select the channel you want to add or erase. If adding channels, you must select the channel to add using the Channel Number buttons.
- 2. 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 want to perform.

12:00AM CABLE

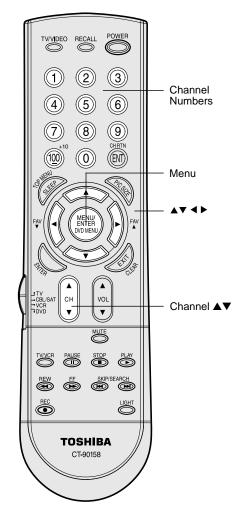
5. Repeat steps 1-4 for other channels you want to add or erase.

Changing channels

To change to the next programmed channel:

Press Channel \blacktriangledown or \blacktriangle on the TV or CH \blacktriangle or \blacktriangledown 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.



You also can change the input source using the Channel \P/ \triangle buttons .The programmed channels and input sources will change as below.



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Switching between two channels

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

To switch between two channels:

- 1. Select the first channel you want to view.
- 2. Select a second channel using the Channel Number buttons (0-9, 100).
- 3. Press CH RTN. The previous channel will be displayed.

Each time you press CH RTN, the TV will switch back and forth between the 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 ▲ / ▼ to scan through all the channels you programmed in the TV's memory.

To program your favorite channels:

- 1. Select a channel you want to program.
- Press MENU, then press ◀ or ▶ to display the OPTION menu.
 Press ▲ or ▼ to highlight FAVORITE CH.



4. Press ◀ or ▶ to display the FAVORITE CH menu. SET/CLEAR will be highlighted.



- 5. Press ◀ or ▶ to highlight SET and press ENTER.
- 6. Press EXIT to return to normal viewing.
- 7. Repeat steps 1-6 for up to 11 other channels.

To select your favorite channels:

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

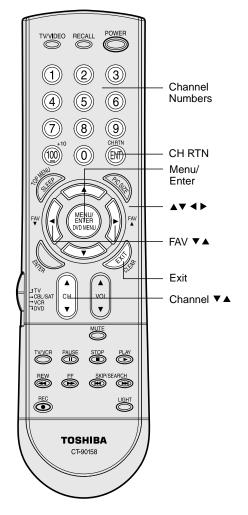
The FAV ▲ ▼ buttons will not work until you have programmed your favorite channels.

To clear your favorite channels:

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



- 6. Press ENTER until "0" replaces the channel number you want to erase.
- 7. Press EXIT to return to normal viewing.
- 8. Repeat steps 1-6 for the other channels.







Using the LOCKS menu

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

You can prevent others from viewing certain programs or channels by blocking them using the V-Chip feature.

Selecting a password

Before you use the block programs and channels, you must select a password. The password you select prevents others from changing the rating limits you set.

To select your password and access the LOCKS menu:

- 1. Press MENU, then press ◀ or ▶ to highlight the LOCKS menu.
- 2. Press ▲ or ▼ to display the password entering mode.



3. 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.



4. Enter the password again to confirm it, and then press ENTER. The LOCKS menu appears.



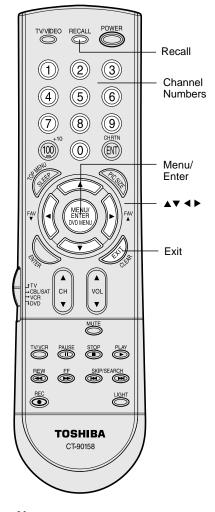
5. You may now set up the LOCKS menu. See "Using the V-Chip (parental control) feature" (page 26), "Locking channels" (page 27), "Locking video inputs" (page 27), "Setting the GameTimer™" (see page 28) or "Using the panel lock feature" (page 28).

To change your password:

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

Note:

The password you programmed is also used in the LOCKS menu; see pages 27-28.



Note:

If you forget your password, press RECALL four times within five seconds from the password entering mode. This allows you to reset your password.

Appendi





Using the V-Chip (parental control) feature

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

To use the V-Chip to block programs by rating:

- Press MENU, then press

 or

 to
 display the LOCKS menu.
- Press ▲ or ▼ to display the password entering mode.
- Use the Channel Number buttons (0-9) to enter your password.
 Press ENTER. The LOCKS menu appears.
- 4. Press ▲ or ▼ to highlight V-CHIP.
 Press ◀ or ▶ to highlight ON to enable V-Chip program blocking by rating.
- 5. Press ▲ or ▼ to highlight TV RATING. Then, press ◀ or ▶ to display the desired rating.

OFF: TV RATING is not set

TV-Y : All children

TV-Y7 : 7 years old and above
TV-G : General audience
TV-PG : Parental guidance
TV-14 : 14 years old and above
TV-MA : 17 years old and above

When you select TV-Y7, TV-PG, TV-14 or TV-MA, press RECALL to explain the rating. Press ▲ or ▼ to select the desired rating you want. Press ◄ or ▶ to select the setting "ON" or "OFF".

6. Press ▲ or ▼ to highlight MOVIE RATING. Then, press ◀ or ▶ to display the desired rating.

OFF: MOVIE RATING is not set

G : All ages

PG : Parental guidance

PG-13: Parental guidance less than

13 years old

R : Under 17 years old Parental guidance suggested

NC17: 17 years old and above

X : Adult only

7. When you are done selecting the ratings, press EXIT to return to normal viewing.

When you try to view a program with a ratings block, a message will appear listing the program's ratings. The program can still be viewed if you press MUTE and then enter your password to temporarily bypass the block.

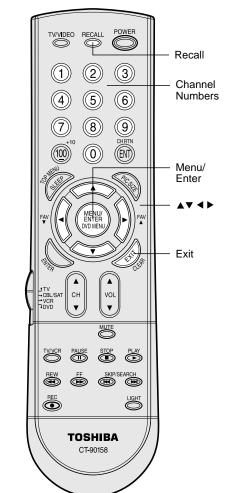


MOVIE RATING OFF / G / PG / PG-13 / R / NC17 / X

:SELECT

ON TV-PG

(a):ADJUST







Locking channels

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. Use the Channel Number buttons (0-9 and 100) to display the television channel you wish to lock.
- 2. Press MENU, then press \blacktriangleleft or \blacktriangleright to display the LOCKS menu.

OFF

0 0 0

SET :ENTER

LOCK CH LOCK VIDEO LOCK

PANEL LOCK NEW PASSWORD

- 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
- Press ▲ or ▼ to highlight CH LOCK and press ◀ or ▶ to display the CH LOCK menu.
- 6. 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.
- 7. Repeat steps 1 through 6 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:

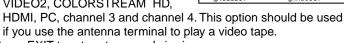
- 1. Press MENU, then press ◀ or ▶ to display the LOCKS menu.
- 2. Press ▲ or ▼ to display the password entering mode.
- 3. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears.
- 4. Press ▲ or ▼ to highlight CH LOCK and press ◀ or ▶ to display the CH LOCK menu.
- 5. Press ◀ or ▶ to highlight CLEAR and clear all channels from the list of locked channels. Press ENTER.
- 6. 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 TV/ VIDEO button or Channel buttons unless you clear the setting.

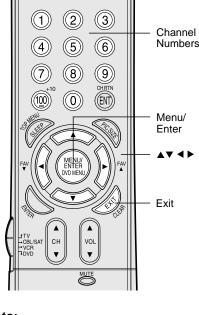
To set up the video lock:

- 1. Press MENU, then press ◀ or ▶ to display the LOCKS menu.
- Press ▲ or ▼ to display the password entering mode.
- 3. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears.
- 4. Press ▲ or ▼ to highlight VIDEO LOCK.
- Press ◀ or ▶ to select:
 - OFF: Unlocks all video input sources.
 - VIDEO: Locks VIDEO1, VIDEO2, COLORSTREAM HD, HDMI, PC.
 - VIDEO +: Locks VIDEO1,
 VIDEO2, COLORSTREAM HD,



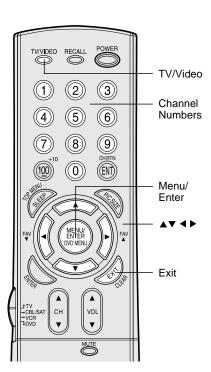
PANEL LOCK NEW PASSWORD

6. Press EXIT to return to normal viewing.



Note:

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



Note:

After programming VIDEO LOCK, change channels or activate the TV/VIDEO key before turning off the television.

27



12/08/2004, 10:51 AM

J3R50121A(E)P25-31

Appe



To unlock video input:

- 1. Press MENU, then press ◀ or ▶ to display the LOCKS menu.
- 2. Press ▲ or ▼ to display the password entering mode.
- 3. 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.
- 5. 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 MENU, then press ◀ or ▶ to display the LOCKS menu.
- 2. Press ▲ or ▼ to display the password entering mode.
- 3. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears.
- 4. Press ▲ or ▼ to highlight GAME TIMER.
- 5. Press ◀ or ▶ to select a time limit (30 minutes, 60 minutes, 90 minutes, 120 minutes or OFF).
- 6. 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 VIDEO LOCK mode.



Using the panel lock feature

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

To lock the panel:

- 1. Press MENU, then press \blacktriangleleft or \blacktriangleright to display the LOCKS menu.
- 2. Press ▲ or ▼ to display the password entering mode.
- 3. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears.
- 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:

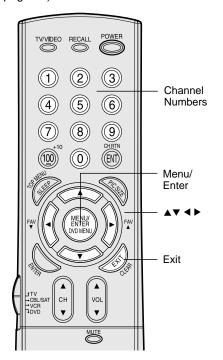
Press and hold the VOL ◀ button on the TV top panel for about 10 seconds until the message "PANEL LOCK:OFF" appears on-screen.

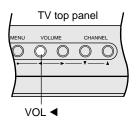
You also can unlock the panel using the menus:

- 1. Press MENU, and then press \blacktriangleleft or \blacktriangleright to display the LOCKS menu.
- Press ▲ or ▼ to display the password entering mode.
- 3. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears.
- Press ▲ or ▼ to highlight PANEL LOCK, and then press ◀ or ▶ to highlight OFF.

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 27).







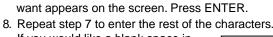




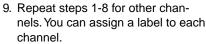
Channel labels appear over the channel number display each time you turn on the TV, select a channel, or press the Recall button. You can choose any four characters to identify a channel.

To create channel labels:

- 1. Select a channel you want to label.
- 2. Press MENU, then press ◀ or ▶ until the OPTION menu appears.
- 3. Press ▲ or ▼ to highlight CH LABEL.
- 4. Press ▶ to display the CH LABEL menu. SET/CLEAR will be highliahted.
- 5. Press ◀ or ▶ to highlight SET.
 6. Press ▲ or ▼ to highlight LABEL.
- 7. Press ◀ or ▶ to enter a character in the first space. Press the button repeatedly until the character you



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. Press EXIT to return to normal viewing.



SET :ENTER END:EXIT

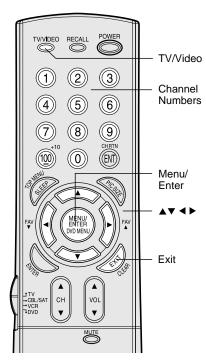


Selecting the video input source

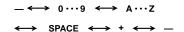
Press TV/VIDEO to view a signal from another device connected to your TV, such as a VCR or DVD player. You can select ANT, VIDEO 1, VIDEO 2, ColorStream HD, HDMI or PC depending on which input jacks you used to connect your devices (see "Connecting your TV" on page 9).



Pressing TV/VIDEO on the remote control displays the current signal source (press TV/VIDEO again or 0-5 to change)



The character will change as below.



To erase channel labels:

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

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 for details.







Labeling the video input sources

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

: Uses the default label name Video cassette recorder

VCR DVD DVD video

: Digital TV set-top box DTV

: Satellite box SAT CBL : Cable box

To label the video input sources:

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





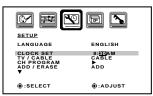
Setting the clock

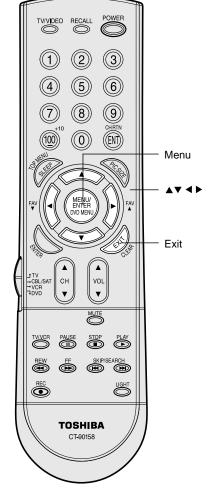
You must set the clock before you can program the ON timer.

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

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







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.







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

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

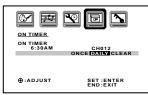
- 1. Set the clock, if you have not already done so (see above).
- 2. Press MENU, and then press ◀ or ▶ to display the OPTION menu.
- 3. Press ▲ or ▼ to highlight ON TIMER.
- 4. Press ◀ or ▶ to highlight SET, then press ENTER. The ON TIMER menu appears.
- 5. Press ▲ or ▼ to set the desired hour, then press ▶.



6. Set the desired minutes and channel, as in step 5.



- 7. Press ▶ to select ONCE or DAILY.
- 8. Press EXIT to return to normal viewing.



To cancel the on timer:

Select CLEAR in step 6 above. Press EXIT to return to normal viewing.



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

(3)

6

(9)

Menu/

(5)

(8)



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 1, TheaterWide 2, TheaterWide 3, 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

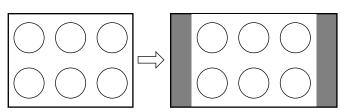
- 1. Press PIC SIZE on the remote control.
- 2. Press the corresponding number button (0-4) to select the desired picture size, as described below and on the next page.



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.

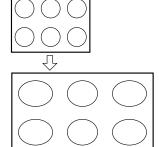


Conventional (4:3) picture on a conventional TV screen

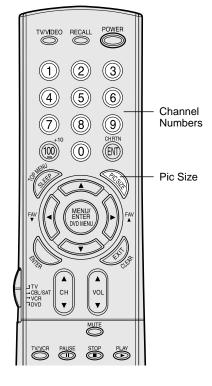
Conventional (4:3) picture in Natural size on your wide-screen TV

TheaterWide 1 picture size (for 4:3 format programs)

- The picture is non-uniformly enlarged—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; however, this mode cannot be scrolled.



TheaterWide 1 picture size example



Note:

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



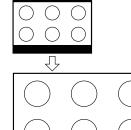
Notes:

- The PICTURE SIZE feature is not available for some program formats (such as 1080i or 720p). Such formats will display in Natural picture size.
- The PICTURE SIZE feature is not available in the PC mode.
- If you select TheaterWide 2 or 3, the top and bottom edges of the picture may be hidden. To see the hidden edges, either scroll the picture (see page 34) or try viewing the program 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.



TheaterWide 2 picture size (for letter box programs)

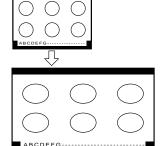
- The entire picture is uniformly enlarged—it is stretched the same amount both wider and taller (retains its original proportion).
- The top and bottom edges of the picture may be hidden. To view the hidden areas, see "Scrolling the TheaterWide® picture" on page 34.



TheaterWide 2 picture size example

TheaterWide 3 picture size (for letter box programs with subtitles)

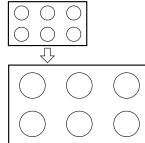
- The picture is non-uniformly enlarged—it is stretched wider to fill the width of the screen, but only slightly stretched taller.
- The top and bottom edges of the picture may be hidden. To view the hidden areas (such as subtitles or captions), see "Scrolling the TheaterWide® picture" on page 34.



TheaterWide 3 picture size example

Full picture size (for 16:9 source programs)

- The picture is non-uniformly enlarged—if receiving a 4:3 format program, it is stretched wider to fill the width of the screen, but not stretched taller.
- None of the picture is hidden.



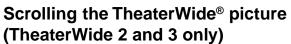
Full picture size example

Note:

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.







- Press PIC SIZE to select the TheaterWide 2 or 3 mode.
 Press MENU, and then press ◀ or ▶ until the SETUP menu appears.
 Press ▲ or ▼ to highlight PICTURE SCROLL.



4. Press \blacktriangleleft or \blacktriangleright to display the Scroll Adjustment mode.



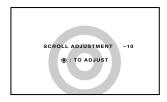
- 5. Press ▲ or ▼ to adjust the vertical position of the picture.
 - Normal (center) position

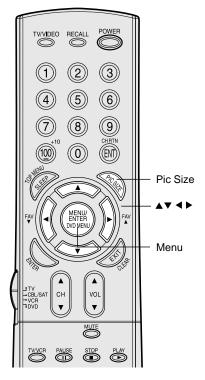


To raise the picture, press ▲.



• To lower the picture, press \blacktriangledown .





Note:

You can scroll the picture in TheaterWide 2 and TheaterWide $\overset{\cdot}{3}$ only. The scroll amounts are as follows:

• 480i/480p signal source:

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







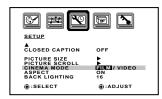
Using the TV's Features

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



To set the CINEMA MODE to VIDEO (off):

Press ◀ or ▶ to select VIDEO in step 2 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).

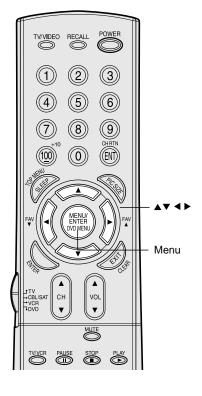
Aspect ratio of signal source	Automatic aspect size (automatically selected when ASPECT is ON)
4:3 Normal	Natural
16:9 Full	Full
4:3 Letter box	TheaterWide 2
Not defined	User-set mode

If the signal does not include aspect information, the picture size you selected on pages 32 and 33 is displayed.

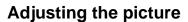
To turn on the ASPECT feature:

- Press MENU, and then press ◀ or ▶ until the SETUP menu appears.
 Press ▲ or ▼ to highlight ASPECT, and then press ◀ or ▶ to select ON.









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 MENU, then press ◀ or ▶ to display the PICTURE menu.
- 2. Press ▲ or ▼ to highlight MODE.



- 3. Press \blacktriangleleft or \blacktriangleright to highlight the mode you prefer.
- 4. 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:

- Press MENU, then press

 or

 to display the PICTURE menu.
 Press

 or

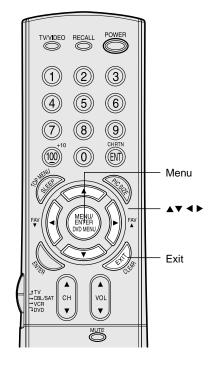
 until the item you want to adjust is highlighted.

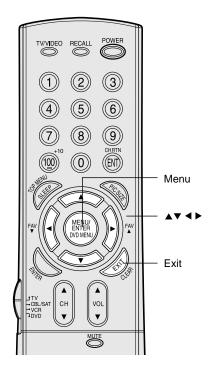


3. Press ◀ or ▶ to adjust the level.

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

4. Press EXIT to return to normal viewing.







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
COOL MEDIUM	Neutral
WARM	Reddish

To select the color temperature:

- 1. Press MENU, then press ◀ or ▶ to display the PICTURE menu.
- 2. Press ▲ or ▼ to highlight COLOR TEMPERATURE.



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

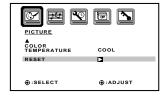
Resetting your picture adjustments

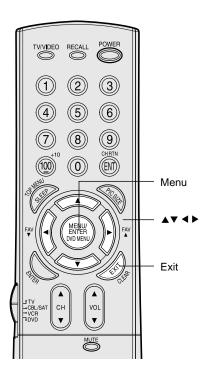
The RESET function returns your picture quality adjustments to the following factory settings:

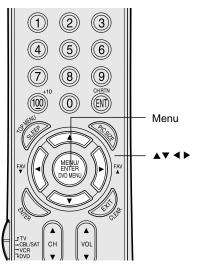
Mode sports	Tint center (0)
Brightness center (25)	Sharpness center (25)
Contrast max (50)	Color temperature cool
Color center (25)	

To reset your picture adjustments:

- 1. Press MENU, then press ◀ or ▶ to display the PICTURE menu.
- 2. Press ▲ or ▼ to highlight RESET, and then press ▶.













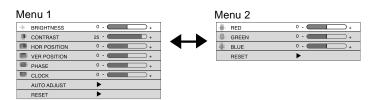
Picture adjustments in the PC mode

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

Press MENU during PC mode.

The PC monitor Menu will appear on the upper left of the TV screen.

Each time you press MENU, the PC Monitor Menu will change as follows:



When you are finished adjusting the picture, press EXIT.

Example: Adjust the contrast.

- During PC mode, press MENU once. The Menu 1 appears on the TV screen.
- Press ▲ or ▼ to select CONTRAST.
- Press ◀ or ▶ to adjust CONTRAST.
- 4. Press EXIT to return to normal viewing.

DESCRIPTION ABOUT EACH SETTING OPTION

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.

AUTO ADJUST: When you select this and press ENTER, the HOR

POSITION and VER POSITION are adjusted automatically. At the same time, your adjusted level will be cancelled. If the result after the automatic adjustment is not satisfying, manual correction is

possible.

RED/GREEN/BLUE: To adjust the color temperature of PC Monitor

screen.

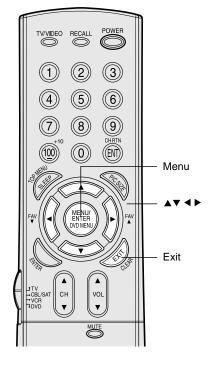
Resetting your picture adjustments in the PC mode

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

Menu 1	Menu 2
Brightness center (0)	Red center (0)
Contrast max (25)	Green center (0)
	Blue center (0)

To reset your picture adjustments:

- 1. Press MENU during PC mode.
- 2. Press ▲ or ▼ to highlight RESET, and then press ▶.



Notes:

- If you wish to change the on-screen language, follow the steps 1-3 on page 26.
- 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.



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 (0h00mm, 0h10mm, ...1h50mm, 2h00mm). 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. Tune the TV to the desired program.
- 2. Press MENU, and then press ◀ or ▶ to display the SETUP menu.
- 3. Press ▲ or ▼ to highlight CLOSED CAPTION.



- 4. 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.

Note:

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

(6)

(9)

(8)

Sleep

Menu

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



Adjusting the sound

Muting the sound

Press MUTE to temporarily turn off the sound. While the sound is off, the screen 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 RECALL.

To listen to stereo sound:

- 1. Press MENU, then press ◀ or ▶ to display AUDIO menu.
- 2. Press ▲ or ▼ to highlight MTS.
- 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.



4. Press EXIT to return to normal viewing.

To listen to a second audio program (SAP):

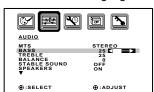
- 1. Press MENU, then press ◀ or ▶ to display AUDIO menu.
- 2. Press ▲ or ▼ to highlight MTS.
- 3. Press ◀ or ▶ to highlight SAP. The TV speakers will output the second audio program instead of normal audio.
- 4. Press EXIT to return to normal viewing.

Adjusting the sound quality

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

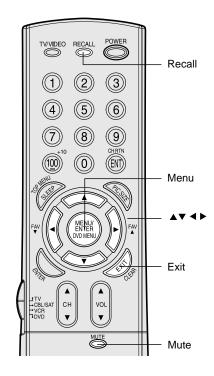
To adjust the sound quality:

- Press MENU, then press ◀ or ▶ until the AUDIO menu appears.
- 2. Press ▲ or ▼ to highlight the item you want to adjust.



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





Note:

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 effect to the sound of Headphone jack and Variable audio out jack.



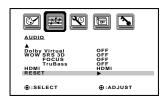
Resetting your audio adjustments

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

Basscenter (25)
Treblecenter (25)
Balancecenter (0)

To reset your audio adjustments:

- 1. Press MENU, then press \blacktriangleleft or \blacktriangleright to display the AUDIO menu.
- 2. Press ▲ or ▼ to highlight RESET, and then press ▶.



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:

- 1. Press MENU, then press \blacktriangleleft or \blacktriangleright to display the AUDIO menu.
- 2. Press ▲ or ▼ to highlight STABLE SOUND.
- 3. Press ◀ or ▶ to highlight ON.



To turn off the StableSound® feature:

Highlight OFF in step 3 above.

Using the Dolby® Virtual surround feature

The Dolby Virtual surround feature allows you to listen to your TV in just like a surround sound mode.

To turn on the Dolby Virtual surround feature:

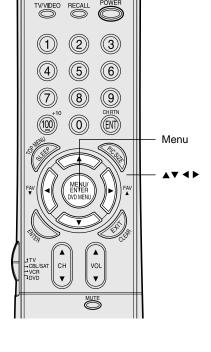
- 1. Press MENU, then press \blacktriangleleft or \blacktriangleright to display the AUDIO menu.
- 2. Press \blacktriangle or \blacktriangledown to highlight Dolby Virtual.
- 3. Press ◀ or ▶ to highlight ON.



To turn off the Dolby Virtual surround feature:

Highlight OFF in step 3 above.

Manufactured under license from Dolby laboratories. Dolby and the double-D symbol are registered trademarks of Dolby Laboratories.



Notes:

- Dolby Virtual surround feature is not available when WOW SRS 3D feature is set to ON.
- Dolby Virtual surround feature does not work to the sound of Headphone jack and Variable audio out jack.

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12/08/2004, 10:51 AM

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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

To adjust the WOW feature:

- 1. Select STEREO mode (see "selecting stereo/SAP broadcasts" on page 40)
- 2. Press MENU, and then press ◀ or ▶ to display the AUDIO menu.
- 3. 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).



4. Press ◀ or ▶ to adjust the item.

Turning off the built-in speakers

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

To turn off the built-in speakers:

- 1. Press MENU, then press ◀ or ▶ to display the AUDIO menu.
- 2. Press ▲ or ▼ to highlight SPEAKERS, and then press ◀ or ▶ to select OFF.



To turn on the built-in speakers:

Select ON in step 2 above.

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 analog audio cables to the HDMI audio IN jacks. Set the HDMI audio input setting to "DVI" with

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 analog audio cables to the HDMI audio IN jacks. Set the HDMI audio input setting to "DVI" with this connection

To select the HDMI audio input source:

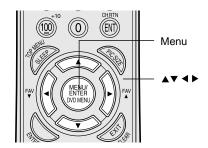
- 1. Press MENU, and then press ◀ or ▶ to display the AUDIO menu.
- 2. Press ▼ or ▲ to highlight HDMI.
- 3. Press ◀ or ▶ to select HDMI or DVI.



Notes:

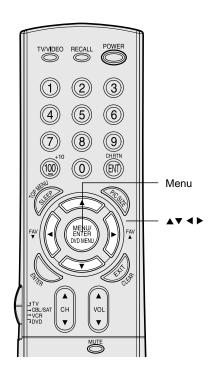
- If the broadcast is monaural, the SRS 3D effect will not work.
- · WOW feature does not work to the sound of Headphone jack and Variable audio out

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Note:

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





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 MENU, and then press ◀ or ▶ until the SETUP menu appears.
- 2. Press ▲ or ▼ to highlight BACK LIGHTING.



3. Press a ◀ or ▶ to adjust the screen brightness.

Displaying on-screen information

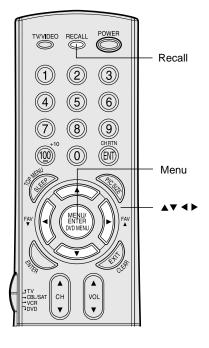
Press RECALL to display the following on-screen information:

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



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 service center.



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

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.



Appendix

Troubleshooting

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

Symptom	Solution
TV will not turn on	 Make sure the power cord is plugged in, then press POWER. The remote control batteries may be dead. Replace the batteries.
No picture, no sound	Check the antenna/cable connections.
No sound, picture OK	 The sound may be muted. Press VOLUME. The station may have broadcast difficulties. Try another channel. 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. If you are using a video input, make sure the TV/VCR button is set correctly.
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 the V-Chip feature or 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. If you change the direction of the TV while it is turned on, the picture could suffer from color shading. If so, turn off the TV and allow it to cool for several hours before turning it on again.
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 V-Chip password does not work (U.S. V-Chip system only)	Change or reset your password.
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.



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.

Television

LCD panel 23 inches (583.0 mm diagonal)(Screen size is approximate.)

Display method Color TFT LCD

Number of pixels 1366 (Horizon) x 768 (Vertical)

Television system NTSC standard Tuner type F-Synth

Channel coverage VHF: 2 – 13 UHF: 14 – 69

Cable TV: 4A, A-5 – A-1, A-I, J – W, W+1 – W+84

Antenna input VHF/UHF 75 ohm
Power source 120V AC, 60 Hz
Power consumption 100 W
Audio power 5.0 W + 5.0 W

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

AUDIO OUTPUT

AUDIO: 150 mV (rms) (30% modulation equivalent, 47k ohm), pin jack (L/R) x 1

HEADPHONE

Ø3.5mm stereo mini jack x 1

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

PC Monitor Input
Mini-Dsub 15pin x 1
Width: 24 inches (610 mm)
Height: 19-1/16 inches (484 mr

Height: 19-1/16 inches (484 mm) Depth: 10-7/8 inches (276 mm)

Weight 24.3 lbs. (11 kg)

Supplied accessories Remote control (CT-90158) with two size "AA" batteries

Owner's Manual (This booklet)

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Dimensions

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

Limited United States Warranty

for LCD TV

Toshiba America Consumer Products, L.L.C. ("TACP") makes the following limited warranties to original consumers in the United States. THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS LCD TV AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

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

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

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

TACP warrants this LCD TV and its parts against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TACP WILL, AT TACP'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOR. You must deliver the entire LCD TV to a TACP Authorized Service Station. You must pay for all transportation and insurance charges for the LCD TV to and from the TACP Authorized Service Station.

Rental Units

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

*Limited Warranty for Commercial Units

LCD TV units sold and used for commercial purposes have a limited warranty for all parts and labor, which warranty begins on the date of original retail purchase and ends on the date that is ninety (90) days thereafter. DURING THIS PERIOD, TACP WILL, AT TACP'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU. You must deliver the entire LCD TV to a TACP Authorized Service Station. You must pay for all transportation and insurance charges for the LCD TV to and from the TACP Authorized Service Station.

Owner's Manual and Product Registration

Read this owner's manual thoroughly before operating this LCD TV. Complete and mail the enclosed product registration card or register your product on-line at www.tacp.toshiba.com/service as soon as possible. By registering your product you will enable TACP 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 under the Consumer Product Safety Act. Failure to complete and return the product registration card does not diminish your warranty rights.

Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

- (1) You must provide your bill of sale or other proof of purchase.
- (2) All warranty servicing of this LCD TV must be performed by an Authorized TACP Service Station.
- (3) These warranties from TACP are effective only if the LCD TV is purchased and operated in the U.S.A. or Puerto Rico.
- (4) Labor charges for installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by these warranties. Reception problems caused by inadequate antenna systems are your responsibility.

(5) Warranties extend only to defects in materials or workmanship as limited above, and do not extend to any LCD TV or parts that have been lost or discarded by you or to damage to the LCD TV 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 TACP; use or malfunction through simultaneous use of this product 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 Services

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

- To find the nearest TACP Authorized Service Station, visit TACP's web site at www.tacp.toshiba.com/service or call toll free 1-800-631-3811.
- (2) Present your bill of sale or other proof of purchase to the Authorized Service Station.

For additional information, visit TACP's web site: www.tacp.toshiba.com.

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

ndix



LCD TV (from for 25" to 31" Television Models)

Toshiba of Canada Limited ("TCL") makes the following limited warranties to original consumers in Canada. THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS LCD TV AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

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

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

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

TCL warrants this LCD TV and its parts against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOR. YOU MUST DELIVER THE ENTIRE LCD TV 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 rental units begins with the date of first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

*Limited Warranty for Commercial Units

TCL warrants LCD TV units 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 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 television.

Register your product online at **www.toshiba.ca** as soon as possible. By registering your product you will enable TCL to provide you with better customer service and improved product support. Failure to register your product does not diminish your warranty rights.

Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

- (1) You must provide your bill of sale or other proof of purchase.
- (2) All warranty servicing of this LCD TV must be performed by an Authorized TCL Service Depot.
- (3) These warranties from TCL are effective only if the LCD TV is purchased in Canada from an authorized TCL dealer and operated in Canada.
- (4) Labor charges for installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by these warranties. Reception problems caused by inadequate antenna systems are your responsibility.
- (5) Warranties extend only to defects in materials or workmanship

as limited above, and do not extend to any television or parts that have been lost or discarded by you or to damage to the 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 product 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 Services

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

- To find the nearest TCL Authorized Service Depot, visit TCL's web site at www.toshiba.ca.
- (2) Present your bill of sale or other proof of purchase to the Authorized Service Depot.

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

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J3R50121A(E)P44-48 48 12/08/2004, 10:52 AM

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