

# TOSHIBA

# OWNER'S MANUAL

## Color Television

# 20AS23

### 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:

## Dear Customer,

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

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

## Safety Precautions

### WARNING

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

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



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



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

## NOTE TO CATV INSTALLERS IN THE USA

This is a reminder to call the CATV system installer's attention to Article 820-40 of the NEC, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical. For additional antenna grounding information, see items 25 and 26 on page 4.

## NOTICE OF POSSIBLE TV STAND INSTABILITY



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

## NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

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

# Child Safety

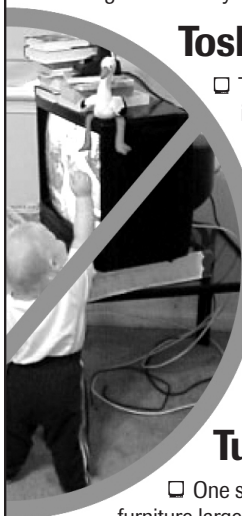
## It Makes A Difference Where Your TV Stands



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

### The Issue

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



## Toshiba Cares!

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

## Tune Into Safety

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



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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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# Important Safety Instructions

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



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

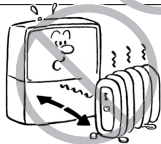


- 6) **Clean only with a dry cloth.**

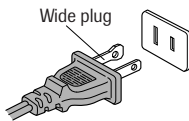
- 7) **Do not block any ventilation openings.** Install in accordance with the manufacturer's instructions.



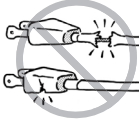
- 8) **Do not install near any heat sources** such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



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



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



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

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



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



- 14) **Refer all servicing to qualified service personnel.**

Service is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



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

# Installation, Care, and Service

## Installation

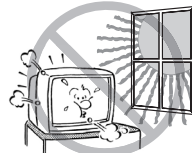
Follow these recommendations and precautions and heed all warnings when installing your TV:

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

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



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



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



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

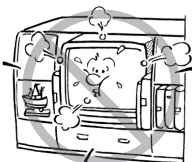


- 21) Never block or cover the slots or openings in the TV cabinet back, bottom, and sides. Never place the TV:

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



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



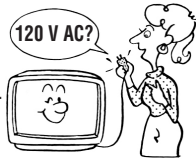
- 22) Never allow anything to rest on or roll over the power cord, and never place the TV where the power cord is subject to wear or abuse.

- 23) Never overload wall outlets and extension cords.

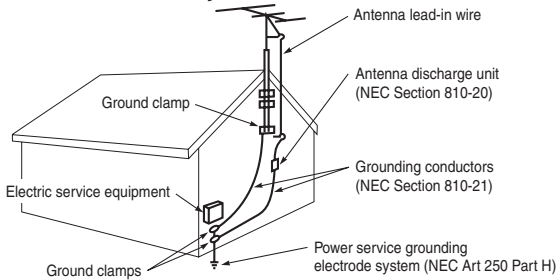


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- 24) Always operate this equipment from a 120 V AC, 60 Hz power source only.



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



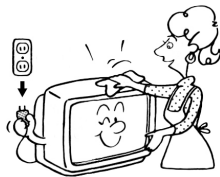
- 26) **! DANGER: RISK OF SERIOUS PERSONAL INJURY OR DEATH!**
- Use extreme care to make sure you are never in a position where your body (or any item you are in contact with, such as a ladder or screwdriver) can accidentally touch overhead power lines. Never locate the antenna near overhead power lines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

## Care

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

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

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



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

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

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

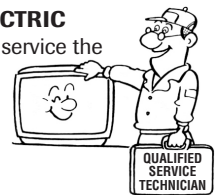
- 32) During normal use, the TV may make occasional snapping or popping sounds. This is normal, especially when the unit is being turned on or off. If these sounds become frequent or continuous, unplug the power cord and contact a Toshiba Authorized Service Center.

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

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

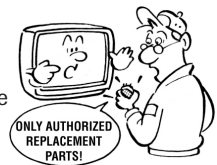
## Service

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



- 35) If you have the TV serviced:

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



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

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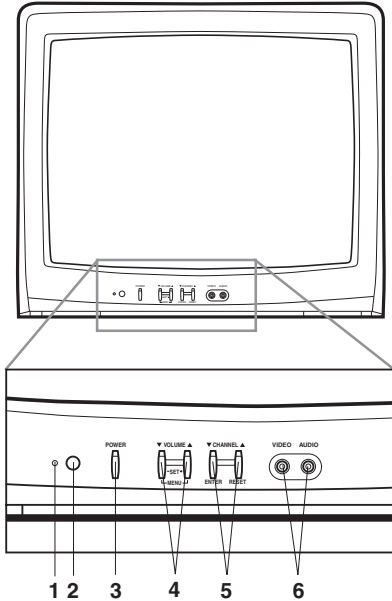
## FEATURES

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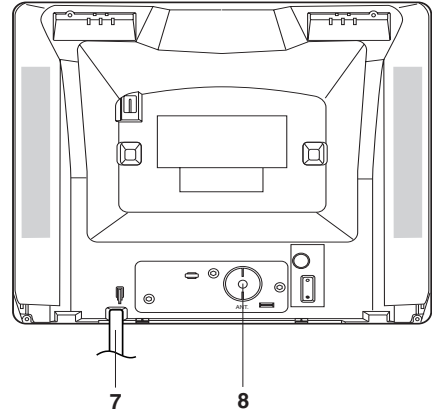
- **181 Channel Tuner** - The tuning system is capable of receiving all 68 VHF/UHF standard broadcast channels that are available in your area. When operating on a cable system, it can tune to the standard VHF channel frequencies plus up to 113 cable channel frequencies. The actual number of channels received depends upon channel reception in your area or your cable system.
- **On-screen 3 Language Display** - This TV can display the on-screen language in English, Spanish or French.
- **Sleep Timer** - Operable from the remote control, the TV can be programmed to turn off automatically (from 10 to 120 minutes, in 10-minute increments).
- **Memory Back Up** - This system prevents loss of memorized channel selections in case a power interruption to the TV should occur.
- **V-Chip** - The V-Chip function can read the rating of a TV program or movie content if the program is encoded with this information. V-Chip will allow you to set a restriction level. (designed to work with the U. S. V-Chip system only)
- **Picture Control Adjustments** - The on-screen display allows precise remote control adjustment of BRIGHTNESS, COLOR, CONTRAST, SHARPNESS and TINT.
- **Closed Captioned Decoder** - Displays closed captions or text on-screen (when available).
- **Lock feature** - This feature has three functions, LOCKING CHANNELS, LOCKING VIDEO INPUT and SETTING THE GAME TIMER.
- **Programmable ON Timer** - Allows you to automatically turn on the TV at a set time.

# LOCATION OF CONTROLS

## FRONT



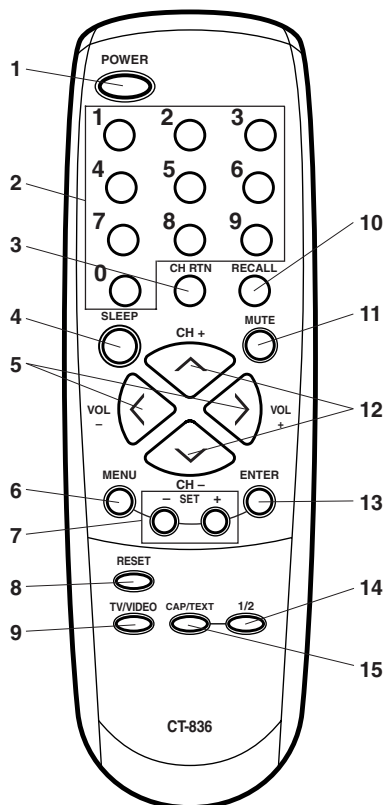
## BACK



- 1. POWER indicator** - Lights up when the power is turned on.
- 2. Remote Sensor** - Signals from the Remote Control unit are received here.
- 3. POWER Button** - Press to turn the TV on or off.
- 4. VOLUME ▲/▼ Buttons** - Press to raise or lower the level of the sound.  
**(MENU Buttons)** - Press both VOLUME ▲/▼ buttons at the same time to display the on-screen menu functions.  
**(SET + / - Buttons)** - Press to select the desired setting during on-screen operations.
- 5. CHANNEL ▲/▼ Buttons** - Press to select a higher or lower numbered channel set into memory.  
**(ENTER Button)** - Press to enter or select information for on-screen operations.  
**(RESET Button)** - Press, while in the on-screen menu mode, to reset the on-screen picture adjustments to their factory preset positions.
- 6. AUDIO/VIDEO IN Jacks** - Audio and video signal cables from an external source can be connected here.
- 7. AC Power Cord** - Plug into an outlet with 120V, 60 Hz AC power only.
- 8. VHF/UHF IN (ANT.) Jack** - Connect a VHF/UHF antenna or CATV cable to this jack.



# REMOTE CONTROL

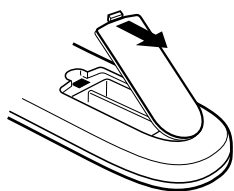


- 1. POWER Button** - Press to turn on the TV. Press again to turn off the TV.
- 2. Direct Channel Selection Buttons (0-9)** - Allows direct access to any channel.
- 3. CH RTN Button** - Repeatedly press CH RTN to toggle back and forth between the last two channels you tuned.

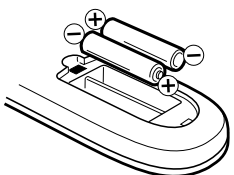
Before using the remote control, batteries must first be installed.

## HOW TO INSTALL BATTERIES

1. Open the battery compartment cover.



2. Install two "AAA" (penlight size) batteries.



3. Replace the battery compartment cover.

- 4. SLEEP Button** - To set the TV to turn off after a preset amount of time, press the SLEEP button on the remote control. The clock will count down 10 minutes each time the button is pressed in the order of 120, 110, 100, ..... 20, 10, 0. After the sleep time is programmed, the display will disappear then reappear momentarily every ten minutes to remind you the sleep timer function is operating. To confirm the sleep time setting, press the SLEEP button once and the remaining time will be momentarily displayed. To cancel sleep time, press the SLEEP button repeatedly until the display turns to 0.
- 5. VOL (VOLUME) + / - Buttons** - Press the + button to increase, or the - button to decrease the volume level.
- 6. MENU Button** - Press to display the on-screen menu function.
- 7. SET + / - Buttons** - Press to select the desired setting during on-screen operations.
- 8. RESET Button** - Press to reset the on-screen picture adjustments to their factory preset positions.
- 9. TV/VIDEO Button** - Switches between the TV and external device inputs.
- 10. RECALL Button** - When you press this button, the channel number will appear in the upper right corner of the screen. Press the button again to remove it from the screen.
- 11. MUTE Button** - To turn off the sound, press this button once. The TV will be silenced and the word "MUTE" will appear on the screen. The muting feature can be released by pressing the MUTE button again or one of the VOL + or - buttons.
- 12. CH (CHANNEL) + / - Buttons** - Press the + button to change to a higher numbered channel set into memory. Press the - button to change to a lower numbered channel set into memory.
- 13. ENTER Button** - Press to enter or select information for On-screen operations.
- 14. 1/2 Button** - Switches between Channel 1 and Channel 2 in the Closed Caption mode.
- 15. CAP/TEXT Button** - Press to switch between normal TV and the two Closed Caption modes (captions or text), when available.

Use two "AAA" size penlight batteries (supplied) for the remote control. The batteries may last approximately one year depending on how much the remote control is used. For best performance, it is recommended that batteries should be replaced on a yearly basis, or when the remote operation becomes erratic.

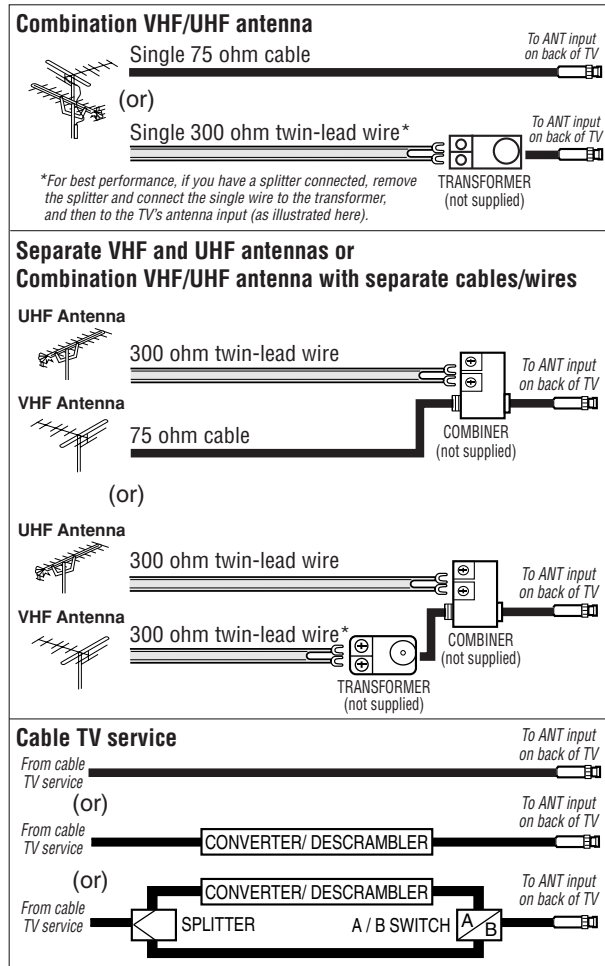
## BATTERY PRECAUTIONS

These precautions should be followed when using batteries in this device:

1. Use only the size and type of batteries specified.
2. Be sure to follow the correct polarity when installing the batteries as indicated in the battery compartment. Reversed batteries may cause damage to the device.
3. Do not mix different types of batteries together (e.g. Alkaline and Carbon-zinc) or old batteries with fresh ones.
4. If the remote control will not be used for a long period of time, remove the batteries to prevent damage or injury from possible battery leakage.
5. Do not try to recharge batteries not intended to be recharged; they can overheat and rupture. (Follow battery manufacturer's directions.)

# ANTENNA/CATV CONNECTIONS

Choose one of the following seven connections, based on your equipment and service:



## Combination VHF/UHF Antenna (Single 75 ohm cable or 300 ohm twin-lead wire)

Connect the 75 ohm cable from a combination VHF/UHF antenna to the antenna jack.

If your combination antenna has a 300 ohm twin-lead wire, use the 300-75 ohm matching transformer (not supplied).

## Combination VHF/UHF Antenna (Separate VHF and UHF 300 ohm twin-leads)

Connect the UHF twin-lead wire to a combiner (not supplied). Connect the VHF twin-lead to the 300-75 ohm matching transformer (not supplied). Attach the transformer to the combiner. Attach the combiner to the antenna jack.

## Separate VHF/UHF Antennas

Connect the 75 ohm cable from the VHF antenna and the UHF antenna twin-lead to a combiner (not supplied). Attach the combiner to the antenna jack.

**NOTE:** If your VHF antenna has a twin-lead wire, use the 300-75 ohm matching transformer (not supplied), then connect the transformer to the combiner.

## For Subscribers to Basic Cable TV Service

For basic cable service not requiring a converter/descrambler box, connect the CATV 75 ohm coaxial cable directly to the antenna jack on the back of the television.

## For Subscribers to Scrambled Cable TV Service

If you subscribe to a cable service which 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 left. 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.

## 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 left. 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.

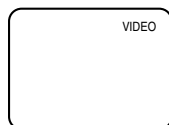
This television has an extended tuning range and can tune most cable channels without using a cable company supplied converter box. Some cable companies offer "premium pay channels" in which the signal is scrambled. Descrambling these signals for normal viewing requires the use of a descrambler device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

# CONNECTION TO OTHER EQUIPMENT

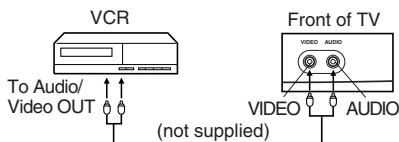
The exact arrangement you use to interconnect various video and audio components to the TV is dependent on the model and features of each component. Check the Owner's Manual provided with each component for the location of video and audio inputs and outputs. The following connection diagrams are offered as suggestions. You may need to modify them to accommodate your particular assortment of components.

## TV/VIDEO SELECTION

To view the picture from a VCR, camcorder, or TV game, you must put the TV in VIDEO mode first. Press **TV/VIDEO** to select VIDEO mode. The word "VIDEO" displays briefly on-screen. Press **TV/VIDEO** again to return to TV mode.

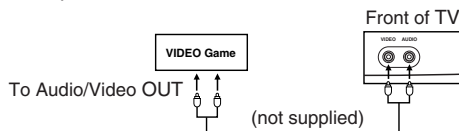


### 1. To connect the TV to a VCR



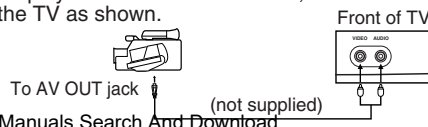
### 2. To connect the TV to a VIDEO Game

The TV also can be used as a display device for many video games. However, due to the wide variety of different types of signal generated by these devices and subsequent hook-up variations required, they have not all been included in the suggested connection diagrams. You will need to consult each component's Owner's Manual for additional information.



### 3. To connect the TV to a camcorder

To playback from the camcorder, connect the camcorder to the TV as shown.



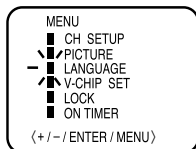


# SETTING THE LANGUAGE

This TV can display the on-screen displays and adjustment menus in English, Spanish, or French.

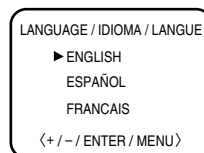
On-screen language selection (step 3) will automatically appear on the screen when you press the MENU button initially. Select the language you prefer first, then proceed with the other menu options.

1 Press **MENU**.



2 Press **SET +** or **-** to select the **LANGUAGE** mode, then press **ENTER**.

3 Press **SET +** or **-** until the "▶" indicator points to the desired language: English (**ENGLISH**), Spanish (**ESPAÑOL**) or French (**FRANCAIS**), then press **ENTER**.



4 Press **MENU** repeatedly until the **MENU** screen is cleared.

## NOTE:

If Spanish or French is chosen, the Closed Caption indicators will be in the selected language, but the Closed Caption text will not be affected by the language selection.

# TV OPERATION

1 To turn on the TV, press **POWER**.

2 The **VOLUME** can be adjusted to a desired level by pressing **VOL (VOLUME) +** or **-**.

The sound level will be indicated on the TV screen by **GREEN BARS AND A NUMBER**. As the sound level increases, so do the number of **BARS AND THE NUMBER** on the screen. The same is true for decreasing the level.

3 Set the **TV/CABLE** menu option to the appropriate position. When shipped from the factory, this menu option is in the **CATV** setting. See "TO MEMORIZE CHANNELS" on page 9.

TV - VHF/UHF channels  
CABLE - CABLE TV channels

4 **CH (CHANNEL) +** and **-** buttons  
Press and release **CH (CHANNEL) +** or **-**. The channel automatically stops at the next channel set into memory. Press and hold the button down to change channels more quickly.

For proper operation, before selecting channels, they should be set into the TV's memory. See "TO MEMORIZE CHANNELS" on page 9.

**DIRECT CHANNEL SELECTION buttons (0-9)** - Press these buttons to select a channel. The channel number will appear on the upper right corner of the TV screen. If an invalid channel number is selected, the display will revert to the previous channel.

**TV MODE DIRECT CHANNEL SELECTION** - When the **TV/CABLE** menu option is in the **TV** position, all channels can be instantly selected by using two buttons (For example, to select channel 2, press "0," then "2." If you press only "2," channel selection will be delayed for a few seconds). For channels 10 and above, press the two digits in order.

## CABLE mode direct channel selection

When the **TV/CABLE** menu option is in the **CABLE** position, channels can be selected as follows:

1-9	Press "0" twice, then 1-9 as needed. Example, to select channel 2, press "002."
10-12	Press "0", then remaining 2 digits. Example, to select channel 12, press "012."
13-99	Press the 2 digits in order. Example, to select channel 36, press "36."
100-125	Press the 3 digits in order. Example, to select channel 120, press "120."

**NOTE:** If the station being viewed stops broadcasting, the TV will automatically shut off after 15 minutes.

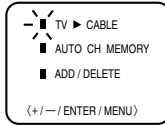
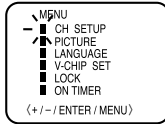
# TO MEMORIZE CHANNELS

This TV is equipped with a channel memory feature that allows the TV to skip up or down to the next channel set into memory, skipping over unwanted channels.

Before selecting channels, they must be programmed into the TV's memory. In addition to normal VHF and UHF channels, this TV can receive up to 113 Cable TV channels. To use this TV with an antenna, set the TV/CABLE menu option to the TV setting. When shipped from the factory, this menu option is in the CABLE setting.

## TV/CABLE SELECTION

- 1 Press **MENU**.
- 2 Press **SET +** or **-** until the indicator next to "CH SETUP" begins to flash, then press **ENTER**.
- 3 Press **SET +** or **-** until the indicator next to "TV/CABLE" begins to flash.
- 4 Press **ENTER** to select the TV or CABLE mode. The arrow indicates the selected mode.
- 5 Press **MENU** repeatedly until the MENU screen is cleared.

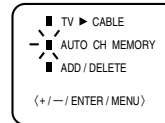
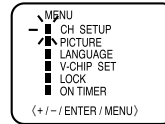


### NOTE:

Contact your cable company to determine the type of cable system used in your area.

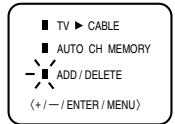
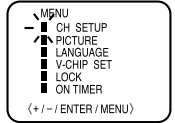
## AUTOMATIC CHANNEL MEMORY

- 1 Press **MENU**.
- 2 Press **SET +** or **-** until the indicator next to "CH SETUP" begins to flash, then press **ENTER**.
- 3 Press **SET +** or **-** until the indicator next to "AUTO CH MEMORY" begins to flash, then press **ENTER**. The TV will begin memorizing all the channels available in your area. Channel numbers will remain red until auto memorizing is complete.
- 4 Press **MENU** repeatedly until the MENU screen is cleared.

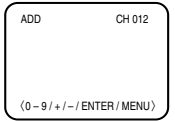


## TO ADD/DELETE CHANNELS

- 1 Press **MENU**.
- 2 Press **SET +** or **-** until the indicator next to "CH SETUP" begins to flash, then press **ENTER**.
- 3 Press **SET +** or **-** until the indicator next to "ADD/DELETE" begins to flash, then press **ENTER**.
- 4 Select the desired channels to be added or deleted using the Direct Channel Selection buttons (0-9), **CH +** or **-**, **SET +** or **-**.
- 5 Press **ENTER** to select ADD or DELETE. If an unmemorized channel was selected (step 4), the channel indication will be red. Press **ENTER** if you wish to ADD the unmemorized channel. The channel indicator will change from red to green when a channel is added and the channel will be memorized.



If a memorized channel was selected (step 4), the channel indication will be green. To delete the channel from memory, press **ENTER** repeatedly until "DEL" appears on-screen. The channel indicator will change from green to red when a channel is deleted. Repeat Steps 4 and 5 for each channel to be added or deleted.



- 6 Press **MENU** repeatedly until the MENU screen is cleared.

# ADJUSTING THE PICTURE

You can adjust the settings for color, sharpness, contrast, brightness and tint.

- 1 Press **MENU**.
- 2 Press **SET +** or **-** until the indicator next to "PICTURE" begins to flash, then press **ENTER**.
- 3 Press **ENTER** repeatedly to select the item you want to adjust.

BRIGHTNESS → CONTRAST → COLOR → TINT → SHARPNESS

- 4 Press **SET +** or **-** to adjust the setting.

	+	-
<b>BRIGHTNESS</b>	higher	lower
<b>CONTRAST</b>	lighter	darker
<b>COLOR</b>	deeper	paler
<b>TINT</b>	greenish	reddish
<b>SHARPNESS</b>	sharper	softer

### TO RETURN TO INITIAL SETTING:

Press **RESET** while the picture adjusting mode appears on-screen.

# CLOSED CAPTIONS

## WHAT IS CLOSED CAPTIONING?

This television has the capability to decode and display Closed Captioned television programs. When available, Closed Captioning will display text on the screen for hearing impaired viewers or it will translate and display text in another language.

## TO VIEW CLOSED CAPTIONS

Press **CAP/TEXT** on the remote control to switch between normal TV and the two Closed Caption Modes (Captions and 1/2 of Full Screen Text).

**Captions:** This Closed Caption Mode will display text on the screen in English or another language (depending on the setting of **Closed Captions 1/2.**) Generally, Closed Captions in English are transmitted on Captions Channel 1 and Closed Captions in other languages are transmitted on Captions Channel 2.

- When activating the Closed Captioned Decoder, there will be a short delay before the Closed Captioned text appears on the screen.
- Closed Captioned text is only displayed in locations where it is available.
- If no caption signal is received, no captions will appear, but the television will remain in the Caption Mode.
- Misspellings or unusual characters may occasionally appear during Closed Captioning. This is normal with Closed Captioning, especially with live programs. This is because during live programs, captions are also entered live. These transmissions do not allow time for editing.
- When Captions are being displayed, on-screen displays, such as volume and mute may not be seen or may interfere with Closed Captions.
- Some cable systems and copy protection systems may interfere with the Closed Captioned signal.
- If using an indoor antenna or if TV reception is very poor, the Closed Caption Decoder may not appear or may appear with strange characters or misspelled words. In this case, adjust the antenna for better reception or use an outdoor antenna.

The Captions will appear in places on the screen where they will least interfere with the picture, usually on the bottom of the screen. News programs will usually show three-line Closed Captions which scroll onto the screen. Most other shows provide two or three lined Captions placed near the character who is speaking so the viewer can follow the dialogue. Words in italics or underlined describe titles, words in foreign languages or words requiring emphasis. Words that are sung usually appear enclosed by musical notes.

**Text:** When available, the Text mode will fill part of the screen with a programming schedule or other information. After selecting a Closed Caption Mode, it will stay in effect until it is changed, even if the channel is changed. If the Captions signal is lost due to a commercial or a break in the signal, the Captions will reappear when the signal is received again. If the channels are changed, the Captions will be delayed approximately 10 seconds.

For television programs broadcasting with Closed Captions, look in your TV guide for the Closed Captions symbol (CC).

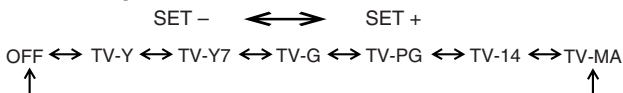
# SETTING THE V-CHIP

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

This TV is fitted with a V-CHIP controller that provides you with channel viewing access controls and restrictions. This function is to prevent your children from watching violent or sexual scenes that you may choose to exclude.

- 1 Press **MENU** and then **SET +** or **-** until the indicator next to "V-CHIP SET" begins to flash, then press **ENTER**.
- 2 Enter your password (4 digits) using the Direct channel selection buttons (0-9). In the event of entering an incorrect password press **RESET**. Then press **ENTER**.
- 3 Enter the password again, and then press **ENTER**.
- 4 Press **SET +** or **-** until the indicator next to "V-CHIP" begins to flash. Press **ENTER** to select ON.
- 5 Press **SET +** or **-** until the indicator next to "TV RATING" or "MPAA RATING" begins to flash. Press **ENTER**.
- 6 Press **SET +** or **-** to select the desired rating for the applicable video or TV channel. Press **ENTER**.
- 7 Press **MENU** repeatedly until the MENU screen is cleared.

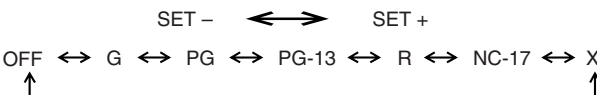
## TV RATING



TV-Y: All children  
TV-Y7: 7 years old and above  
TV-G: Children's program  
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 **SET +** or **-** to select the desired rating you want. Press **ENTER** to select the setting ON or OFF.

## MPAA RATING



G: All ages  
PG: Parental guidance  
PG-13: Parental guidance less than 13 years old  
R: Under 17 years old parental guidance suggested  
NC-17: 17 years old and above  
X: Adult only

- NOTES:**
- If you want to change your password, follow steps 1 and 2 and select "CHANGE PASSWORD" option. Then enter your new password.
  - The V-Chip function is activated only on programs and tapes that have the rating signal.
  - Once you block a program using the V-Chip function, the blocked program cannot be watched based on the content of the show. When the program starts, the "INPUT PASSWORD" will appear on the screen. When you want to release the V-Chip temporarily, enter the password.
  - If you change the channel or turn off the TV while the V-Chip function was temporarily released, the original setting will be resumed. If you return to the channel you were watching you must re-enter your password to temporarily release your V-Chip function again.
  - When you watch the TV using a cable box or a VCR and the TV is tuned to channel 3 or 4, you must release the V-Chip temporarily. The V-Chip setting will not be resumed until you turn off the TV. The TV channel is not used in this case.
  - When changing the channel with the cable box or the VCR, approximately 10 seconds will pass until the program appears.
  - If you forget or lose your password, you can reset it using the following procedure:
    - While holding down the **VOLUME ▼** button on the TV, press "0" on the remote control for a few seconds.

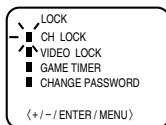
# USING THE LOCK MENU

The LOCK menu includes the CH LOCK, VIDEO LOCK, GAME TIMER and CHANGE PASSWORD functions. You can use these functions after entering the correct PASSWORD. (This password is the same one selected under "SETTING THE V-CHIP" on page 10.)

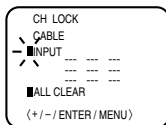
## LOCKING CHANNELS

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) to display the television channel you wish to lock.
- 2 Press **MENU**, then press **SET +** or **-** until the indicator next to "LOCK" begins to flash. Then press **ENTER**.
- 3 Use the Channel Number buttons (0-9) to enter your password, then press **ENTER**. The LOCK menu appears.
- 4 Press **SET +** or **-** until the indicator next to "CH LOCK" begins to flash, then press **ENTER**.



- 5 Press **SET +** or **-** to select:
  - INPUT to select the channel as to be locked. Then press **ENTER**.
  - ALL CLEAR to clear all channels from the list of locked channels. Then press **ENTER**.



- 6 Repeat steps 1 through 5 to lock other channels. When you are finished locking channels, press **MENU** repeatedly until the MENU screen is cleared.

If you try to tune a locked channel, the TV will not display it, but will display the nearest unlocked channel.

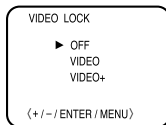
### NOTES:

- If you are accessing the LOCK menus or V-chip menus for the first time, choose a four-digit number to be your password.
- After programming CH LOCK, change channels before turning off the television.
- If you want to unlock channels, select ALL CLEAR in step 5, then press **ENTER**.

## LOCKING VIDEO INPUT

With the VIDEO LOCK feature, you can lock out the input source (VIDEO) and channel 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.

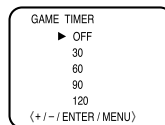
- 1 Press **MENU**, then press **SET +** or **-** until the indicator next to "LOCK" begins to flash, then press **ENTER**.
- 2 Use the Channel Number buttons (0-9) to enter your password, then press **ENTER**. The LOCK menu appears.
- 3 Press **SET +** or **-** until the indicator next to "VIDEO LOCK" begins to flash, then press **ENTER**.
- 4 Press **SET +** or **-** to select:
  - OFF: Unlocks all video input sources.
  - VIDEO: Locks VIDEO.
  - VIDEO +: Locks VIDEO, channel 3 and channel 4. This option should be used if you use the antenna to play a video tape.
- 5 Press **MENU** to return to normal viewing.



## SETTING THE GAME TIMER

With the GAME TIMER feature, you can automatically activate the VIDEO LOCK feature (VIDEO setting) to set a time limit for playing a TV game (30, 60, 90, or 120 minutes).

- 1 Press **MENU**, then press **SET +** or **-** until the indicator next to "LOCK" begins to flash, then press **ENTER**.
- 2 Use the Channel Number buttons (0-9) to enter your password, then press **ENTER**. The LOCK menu appears.
- 3 Press **SET +** or **-** until the indicator next to "GAME TIMER" begins to flash, then press **ENTER**.
- 4 Press **SET +** or **-** to select a time limit (30 minutes, 60 minutes, 90 minutes, 120 minutes or OFF).
- 5 Press **MENU** repeatedly until the MENU screen is cleared. After the GAME TIMER is programmed, the display will appear briefly every ten minutes to remind you that the GAME TIMER is operating. When the programmed end time is reached, the display will change the channel automatically.



### NOTE:

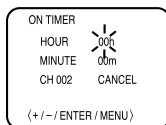
After programming VIDEO LOCK, change channels or activate the TV/VIDEO key before turning off the television.

# TO SET THE ON TIMER

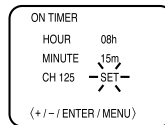
This feature allows you to program the TV to turn on automatically at a set time and channel.

**NOTE:** After a power failure or disconnection of the power, the timer setting will be lost.

- 1 Press **MENU**, then press **SET +** or **-** until the indicator next to "ON TIMER" begins to flash. Then press **ENTER**. The ON TIMER menu appears.
- 2 Press **SET +** or **-** to set the desired hour (0-12), then press **ENTER**.
- 3 Press **SET +** or **-** to set the desired minute (00, 05, 10, ...55), then press **ENTER**.



- 4 Press **SET +** or **-** to set the desired channel, then press **ENTER**.
- 5 Press **SET +** or **-** to select the SET mode, then press **ENTER**.
- 6 Press **MENU** repeatedly until the MENU screen is cleared.



### NOTE:

To cancel the ON TIMER, select CANCEL in step 4 above. Press **MENU** repeatedly until the MENU screen is cleared.

# TROUBLESHOOTING GUIDE

Before requesting service, please refer to the following chart for the symptom and possible solution.

SYMPTOMS	POSSIBLE SOLUTIONS
TV does not operate	<ul style="list-style-type: none"> <li>• Make sure the power cord is plugged in.</li> <li>• Try another AC outlet.</li> <li>• Power is off; check fuse or circuit breaker.</li> <li>• Unplug unit for an hour, then plug it back in.</li> </ul>
Poor sound or no sound	<ul style="list-style-type: none"> <li>• Station or CATV experiencing problems; tune to another station.</li> <li>• Check sound adjustments (VOLUME and MUTE).</li> <li>• Check for sources of possible interference.</li> </ul>
Poor picture or no picture	<ul style="list-style-type: none"> <li>• Station or CATV experiencing problems; tune to another station.</li> <li>• Make sure channels are set into memory.</li> <li>• Check antenna or CATV connections; adjust antenna.</li> <li>• Check for sources of possible interference.</li> <li>• Check picture control adjustments.</li> <li>• Press CAP/TEXT to turn off the Closed Caption mode.</li> </ul>
Poor reception on some channels	<ul style="list-style-type: none"> <li>• Station or CATV experiencing problems; tune to another station.</li> <li>• Make sure channels are set into memory.</li> <li>• Station is weak; adjust antenna to receive desired station.</li> <li>• Check for sources of possible interference.</li> </ul>
Poor color or no color	<ul style="list-style-type: none"> <li>• Station or CATV experiencing problems; tune to another station.</li> <li>• Make sure channels are set into memory.</li> <li>• Check picture control adjustments.</li> <li>• Check antenna or CATV connection. Adjust antenna.</li> </ul>
Picture wobbles or drifts	<ul style="list-style-type: none"> <li>• Station or CATV experiencing problems; tune to another station.</li> <li>• Make sure channels are set into memory.</li> <li>• CATV company is scrambling signal.</li> <li>• Adjust antenna.</li> </ul>

SYMPTOMS	POSSIBLE SOLUTIONS
No CATV reception	<ul style="list-style-type: none"> <li>• Check all CATV connections.</li> <li>• Set TV/CABLE menu option to the CABLE mode.</li> <li>• Station or CATV system problems; try another station.</li> </ul>
Horizontal or diagonal bars on screen	<ul style="list-style-type: none"> <li>• Check antenna connections; reorient antenna.</li> <li>• Check for sources of possible interference.</li> </ul>
No reception above channel 13	<ul style="list-style-type: none"> <li>• Make sure TV/CABLE menu option is in the appropriate mode.</li> <li>• If using antenna, check UHF antenna connections.</li> </ul>
No Remote operation	<ul style="list-style-type: none"> <li>• Batteries are weak, dead or inserted incorrectly.</li> <li>• Remote is out of range; move closer to TV (within 15 feet).</li> <li>• Make sure Remote is aimed at sensor.</li> <li>• Confirm there are no obstructions between the Remote and the TV.</li> <li>• Make sure the power cord is plugged in.</li> </ul>
TV shuts off	<ul style="list-style-type: none"> <li>• No broadcast on station tuned.</li> <li>• Sleep Timer is set.</li> <li>• Power interrupted.</li> </ul>
Closed - Caption is not activated	<ul style="list-style-type: none"> <li>• TV station experiencing problems or program tuned is not closed captioned. Try another channel.</li> <li>• Check CATV connection or VHF/UHF antenna, reposition or rotate antenna.</li> <li>• Press CAP/TEXT to turn on the closed caption decoder.</li> </ul>
Black box on screen	<ul style="list-style-type: none"> <li>• Press CAP/TEXT to turn off the Closed Caption mode.</li> </ul>
Display is not shown in your language	<ul style="list-style-type: none"> <li>• Select proper language in the menu options.</li> </ul>

## SPECIFICATIONS

AC Power Input:	120 V, 60 Hz
AC Power Consumption:	73 Watts
Audio Power Output Rating:	1.5 Watts
Speaker:	3 inches (76 mm) Full Range, 8 ohm x 1
Tuner Type:	181 channel, quartz PLL frequency synthesized
Remote Control:	Infrared, Direct Access, 2 x AAA batteries (supplied)
Receiving Channels:	VHF 2-13 UHF 14-69 CATV 01-97 (5A)-(A-3) 98-99 (A-2)-(A-1) 14-22 (A)-(I) 23-36 (J)-(W) 37-65 (AA)-(FFF) 66-125 (GGG)-(125)
Antenna Input Impedance:	75 ohm (VHF/UHF) coaxial input
Input:	Video: 1.0 Vp-p 75 ohm Audio: 300 mV, 47k ohm
Dimensions:	Width: 19-3/16 inches (488 mm) Height: 16-3/8 inches (416 mm) Depth: 18-5/16 inches (465 mm)
Weight:	38.6 lbs (17.5 kg)

## ACCESSORY

Remote Control with two size "AAA" batteries

**Design and specifications are subject to change without notice.**

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