

TOSHIBA

Color Television

OWNER'S MANUAL

CF19H22



Dear Customer

Congratulations! You have purchased one of the finest Color TV's on the market!

This manual will help you use the many exciting and useful features to make your TV viewing more enjoyable than ever before.

Before operating your TV set, please read all these safety and operating instructions completely and then retain for future reference.

Customer's Record

You will find the model number and serial number on the back of your TV set.

Record these numbers in the spaces provided below. Refer to them whenever you call upon your TOSHIBA dealer regarding this product.

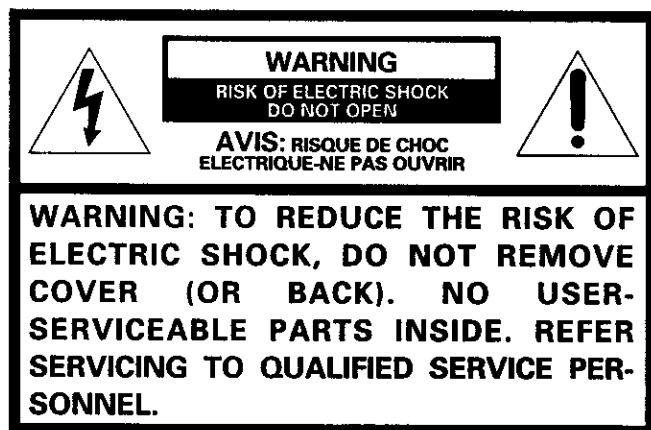
Model Number _____

Serial Number _____

Safety Precautions

WARNING:

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



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 point in the triangle tells you that important operating and maintenance instructions follow this symbol.

CAUTIONS:

TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED PLUG WITH AN EXTENSION CORD RECEPTACLE OR OTHER OUTLET UNLESS THE PRONGS CAN BE FULLY INSERTED INTO THE OUTLET TO PREVENT ANY EXPOSURE OF THE PRONGS ON THE POLARIZED PLUG.

Avoid displaying stationary images on your TV screen for extended periods of time. Stationary patterns generated by computer displays, video games, stock market reports, etc. can become permanently engrained on the picture tube. This damage is not protected by your warranty as it is the result of misuse. Should you wish to use your TOSHIBA Television to display still images, it is always advisable to reduce brightness and contrast settings. Never leave a video game or computer display unattended.

NOTE TO CATV SYSTEM INSTALLER IN THE USA:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that 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.

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Installing Your TV Set

Where to install

Place the TV on the floor or on a sturdy platform. The mounting surface should be flat and steady.

Lighting

Do not place the TV in a room where direct lighting strikes the screen. Use soft and indirect lighting.

Air circulation

Place the TV far enough from the walls to allow proper ventilation. This will prevent the TV from overheating and avoid possible damage to the TV. Avoid dusty places too.

Power supply

Plug into an electrical outlet with standard household power (120 volt AC, 60Hz). Do not change the plug's safety prong. See the right column.

WARNING : TO AVOID PERSONAL INJURY

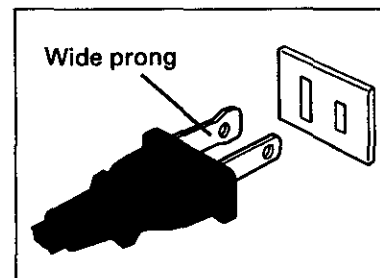
- Do not stand or climb on the TV.
- Do not put a VCR or any heavy object on top of the TV.

CAUTION :

As a safety feature, the plug has one prong wider than the other. It will fit only one way into a standard electrical outlet. If the plug will not fit into the outlet, try turning it around. If the plug will not fit either way, the outlet is probably old and non-standard.

You will need to have a new outlet installed by an electrician.

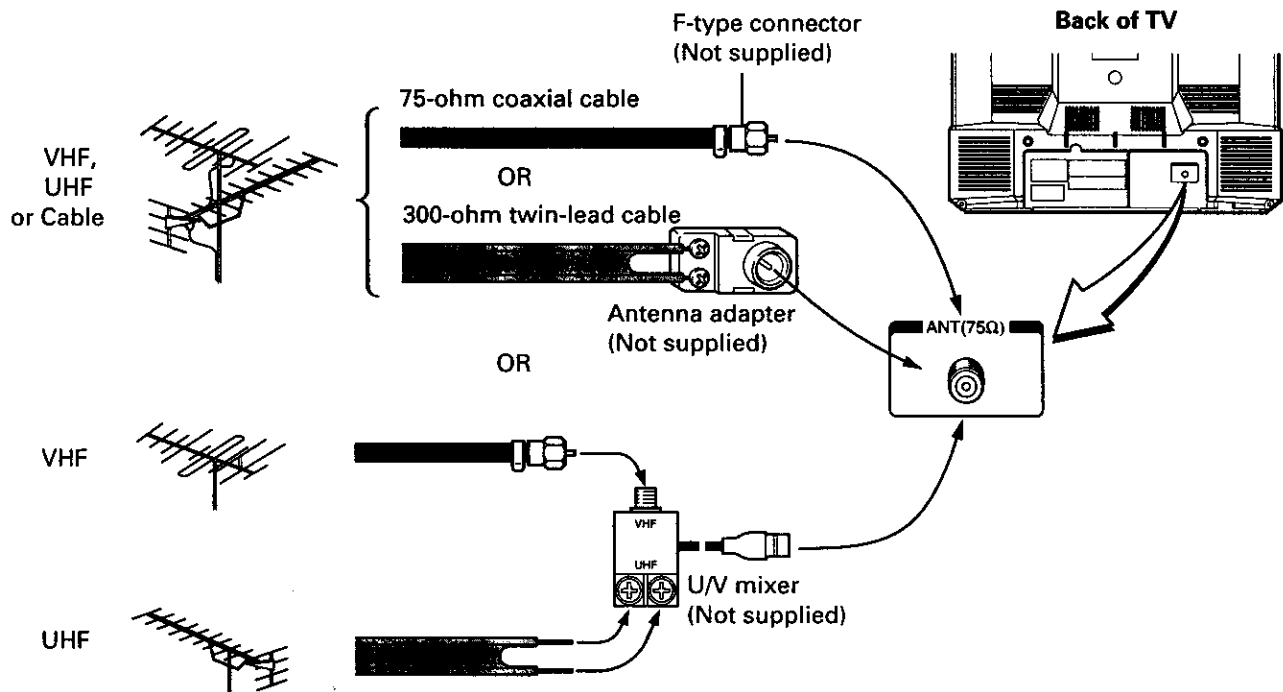
DO NOT CHANGE THE SAFETY FEATURE OF THE PLUG.



Antenna/Cable TV Connection

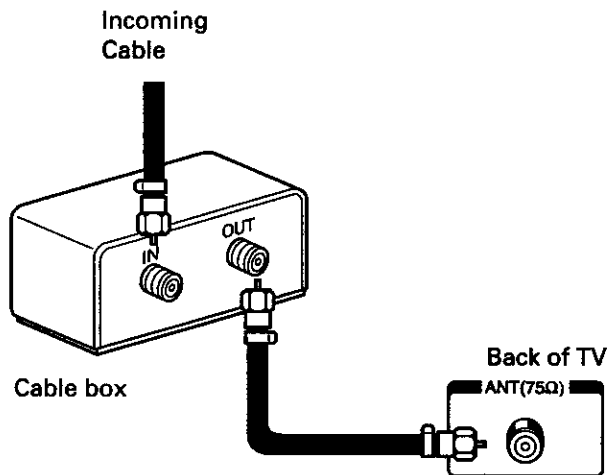
You can use either an indoor or outdoor antenna to receive VHF and/or UHF channels. Channels 2 - 13 are VHF channels, and channels 14 - 69 are UHF channels. We recommend using an outdoor antenna for better picture quality. You can receive Cable TV by connecting a cable supplied by your local cable company.

Connecting an antenna or Cable without a decoder box



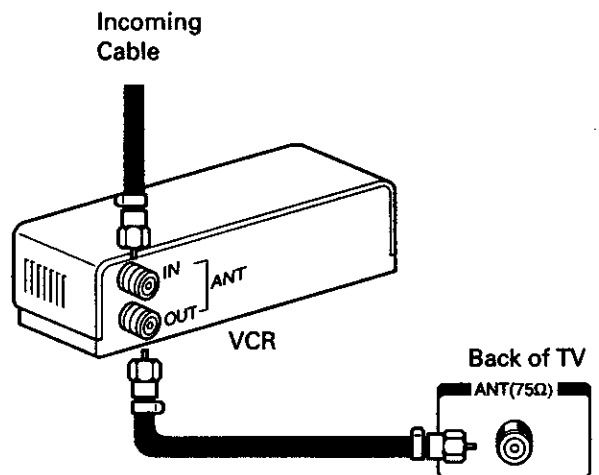
Connecting a Cable box or VCR

- Follow this diagram if your cable company requires you to connect a cable box.



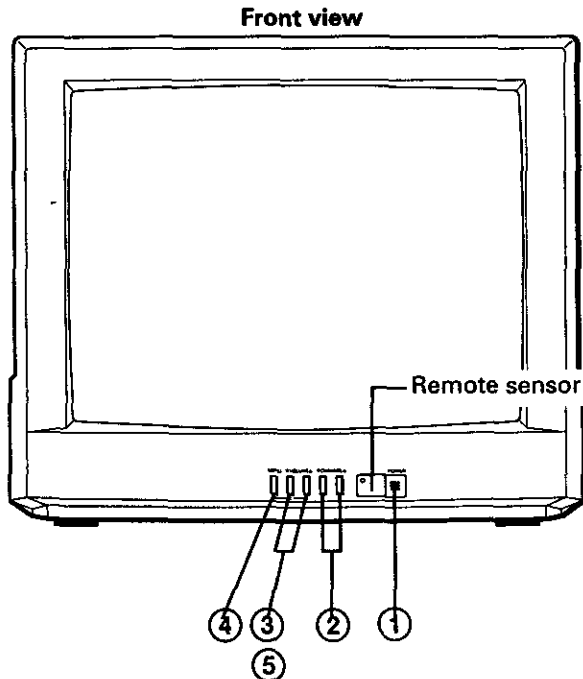
When selecting channels in the cable box, first tune your TV to the output channels of the cable box (usually 3 or 4).

- Follow this diagram if you use a VCR.



To watch video tapes, tune your TV to the output channel of the VCR (usually 3 or 4), then begin viewing the video tape.

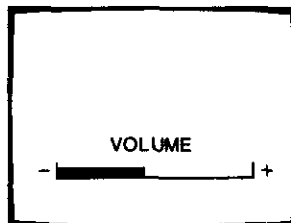
Operation and Controls (TV Set)



First-Time Operation

Turn on TV and place channels in memory.
See page 8.

- ① **POWER** button
Press to turn on the TV.
Press again to turn off the TV.
- ② **CHANNEL** ▼/▲ buttons
Press ▲ to select next higher channel.
Press ▼ to select next lower channel.
- ③ **VOLUME** ▼/▲ buttons (Dual function with ⑤)
Press ▲ to increase the volume.
Press ▼ to decrease the volume.

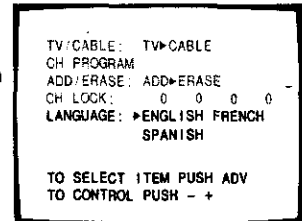


- ④ **MENU** button
Refer to the "Menu Function" on page 7.
- ⑤ **↔** buttons
Refer to the "Menu Function" on page 7.

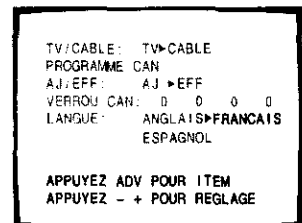
To select on-screen display language

You can choose from three different languages (ENGLISH, FRENCH, and SPANISH) for the on-screen displays (adjustment menus and messages).

- 1 Press **MENU** (then **ADV** ▲ or ▼) repeatedly until "LANGUAGE" in the Set up menu is displayed in purple.



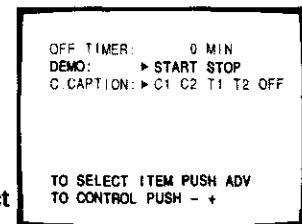
- 2 Press **◀** (<) or **▶** (>) until your desired language is displayed in purple. If you select "FRENCH" for example, the display language changes to French.



Demonstration mode

When this function is activated, your TV will automatically display a variety of its on-screen menus and special features. This function is provided for demonstration purpose only.

- 1 Press **MENU** (then **ADV** ▲ or ▼) repeatedly until "DEMO" in the Option menu is displayed in purple.
- 2 Press **◀** (<) or **▶** (>) to select "START".



The on-screen demonstration will start after about 6 seconds.

To stop the demonstration

Press **RECALL** on the Remote or select "STOP" in the menu.

Auto-Power-Off feature

If a vacant channel is tuned in or a TV broadcast has finished for the day, the TV automatically turns off after about 15 minutes. This feature does not operate in the VIDEO mode.

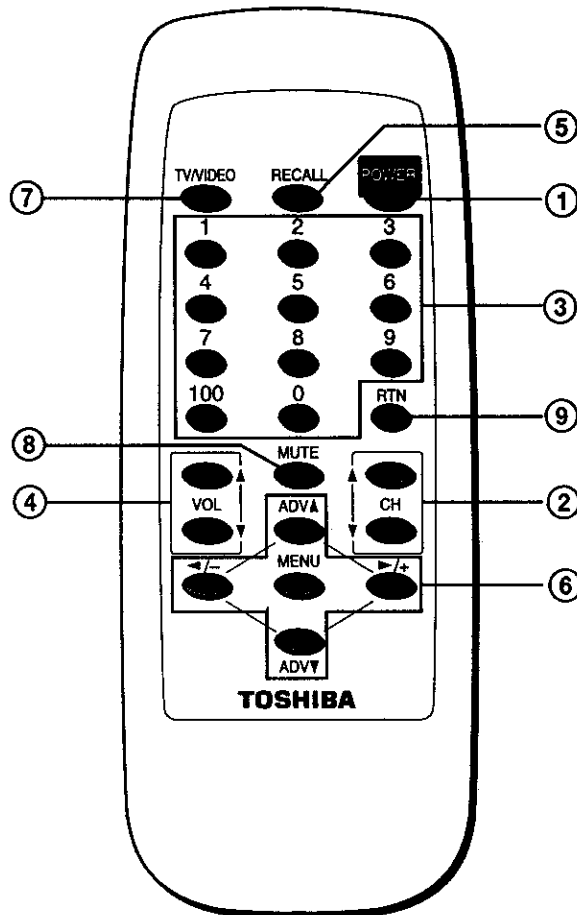
Last Mode Memory feature

If the power is cut off while you are watching the TV and then later restored, the TV will turn back on automatically by the **Last Mode Memory** feature. To ensure that the power does not turn on, when you are away from home for a long time, unplug the power cord from the wall outlet.

BASIC OPERATION

Operation and Controls (Remote Control)

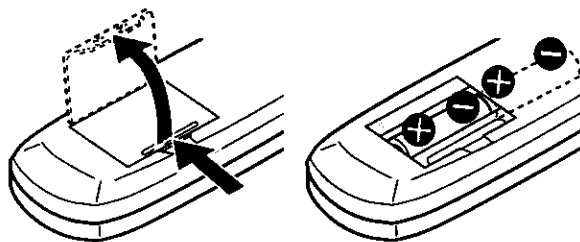
This Remote Control allows you to control the functions of your TV set from 16 feet (5m) away. Before attempting to operate the Remote Control, install the batteries according to "Installing and replacing batteries" below. For specific use of each control, consult the corresponding page numbers in brackets.



- ① POWER button
Press to turn on the TV.
Press again to turn off the TV.
- ② CHANNEL ▲/▼ buttons
Press ▲ to select next higher channel.
Press ▼ to select next lower channel.
- ③ Channel Number buttons
To select channel 4, press "4" (or press "0", "4").
To select channel 38, press "3", "8".
To select channel 125, press "100", "2", "5" in sequence.
- ④ VOLUME ▲/▼ buttons
Press ▲ to increase the volume.
Press ▼ to decrease the volume.
- ⑤ RECALL button
Press to display the channel number on the screen.
- ⑥ Menu function buttons [7]
- ⑦ TV/VIDEO button [10]
- ⑧ MUTE button [10]
- ⑨ RTN button [10]

Installing and replacing batteries

- 1 Place the Remote Control with the face down, and remove the battery cover as shown.



- 2 Place the two "AA" size batteries, matching the + and - signs on each battery to the + and - signs of the battery compartment.
- 3 Replace the battery cover until the lock snaps.

CAUTIONS:

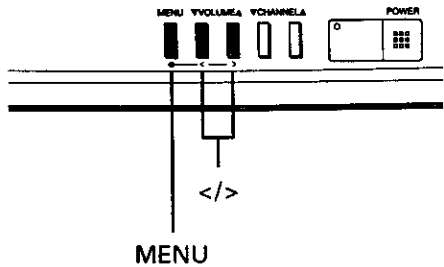
- Do not throw your batteries into a fire. Dispose of your batteries in a designated disposal area.
- Do not combine used old batteries with new ones.
- Do not mix battery types.

Notes:

- If your Remote Control does not always adjust the set as you wish, you probably need to replace the batteries. The life expectancy of the battery is about one year.
- Remove dead batteries immediately to prevent battery acid from leaking into the battery compartment.
- If you do not intend to use the Remote Control for a long period, remove the batteries.

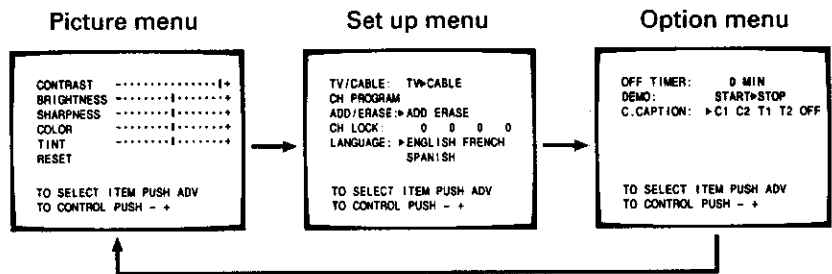
Menu Function (General Instructions)

We suggest you familiarize yourself with the procedure before using the Menu function. To adjust any TV feature, the use of the Menu function is required. The adjustments that can be made to the TV appear on the screen.



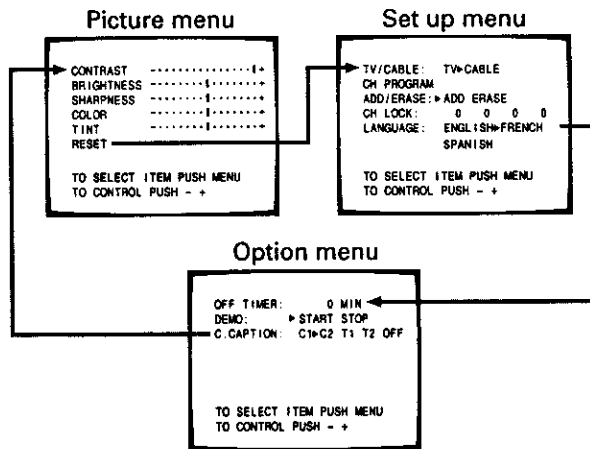
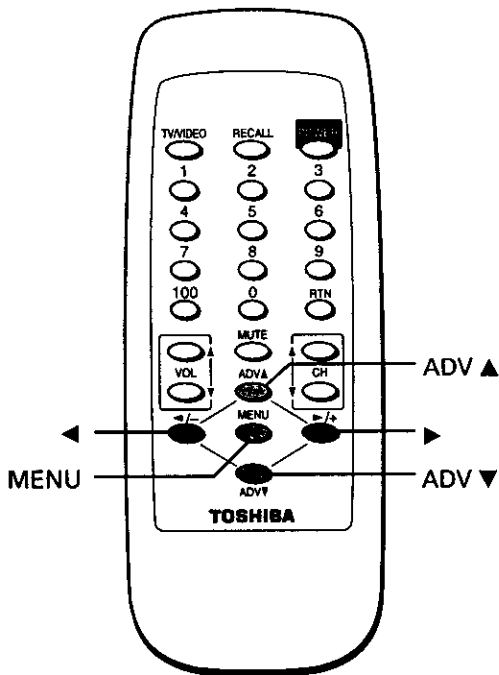
MENU button (on Remote)

Each time you press **MENU**, the Picture, Setup or Option menu on-screen display is selected in order, then press **ADV**.



MENU button (on TV)

Each time you press **MENU**, each item will be selected in order, then press **< or >**.



Note: The </> buttons on the TV will function as the VOLUME ▼/▲ buttons when no menu display is on the screen.

ADV button (on Remote)

Use **ADV** after you have selected the on-screen menu you want to adjust with the **MENU** button.

Each time you press **ADV**, the function to be adjusted will be selected in order.

ADV ▲ button from bottom to top

ADV ▼ button from top to bottom

The selected function will be displayed in magenta.

</> (</>) buttons (on TV and on Remote)

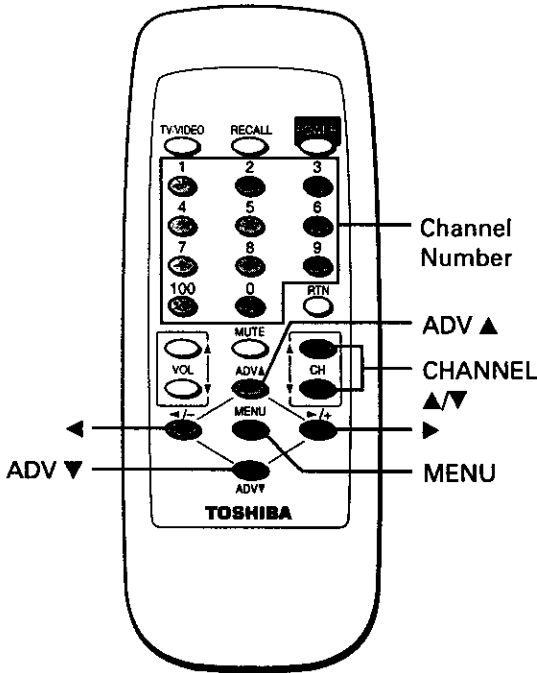
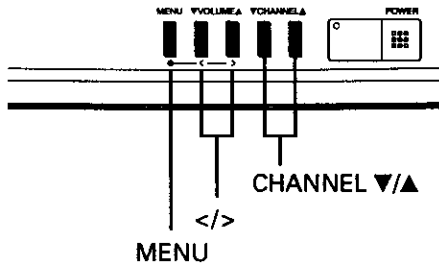
Use </> (</>) to adjust the function you have selected with the **ADV** button on the Remote Control (or **MENU** button on the TV).

BASIC OPERATION

Programming Channel Memory

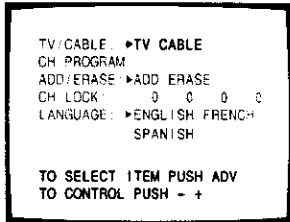
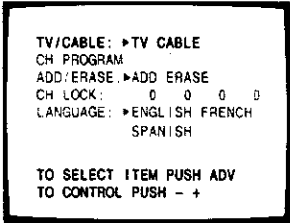
The channel memory is the list of TV channel numbers your TV will stop on when you press the CHANNEL ▲ or ▼ button. **First, use the TV/CABLE and CH PROGRAM functions to preset all active channels in your area.** If necessary, arrange the preset channels with the ADD/ERASE functions so that you can tune into only desired channels.

BASIC OPERATION



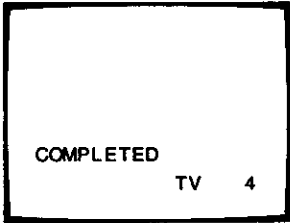
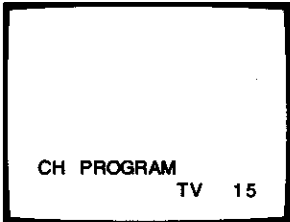
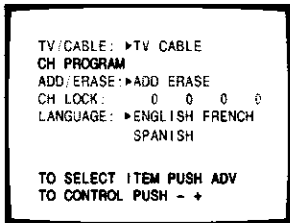
TV/CABLE function

- 1 Press **POWER** to turn on the TV.
- 2 Press **MENU** (then **ADV ▲** or **▼**) repeatedly until "TV/CABLE" in the Set up menu is displayed in purple.
- 3 Press **◀ (<)** or **▶ (>)** until the mode that corresponds to your TV signal system is displayed in purple.
TV: TV broadcasts signals.
 (VHF channels 2 through 13 and UHF channels 14 through 69)
CABLE: Cable TV signals.
 (Cable channels 1 through 125)



CH PROGRAM function

- 1 Press **MENU** (then **ADV ▲** or **▼**) repeatedly until "CH PROGRAM" in the Set up menu is displayed in purple.
- 2 Press **◀ (<)** or **▶ (>)** to start channel programming. The TV will automatically cycle through all the TV or CABLE channels depending on the mode selected, and store active channels in the channel memory.
- 3 When channel programming is complete, you will see the message at the right.

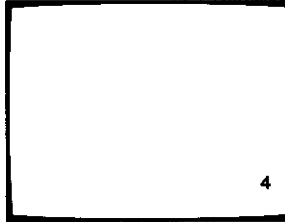


- 4 Press **CHANNEL ▲** or **▼** to make sure the channel programming has been done properly.

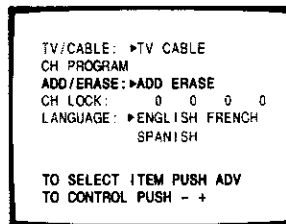
ADD/ERASE function

After performing the CH PROGRAM function, you can add or erase specific channels.

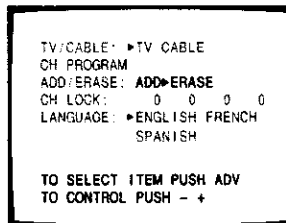
- 1 Select the channel you want to erase using the **CHANNEL ▲** or **▼** button, or select the channel you want to add using the **Channel Number** buttons.



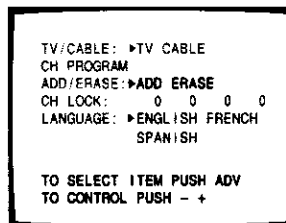
- 2 Press **MENU** (then **ADV ▲** or **▼**) repeatedly until "ADD/ERASE" in the Set up menu is displayed in purple.



- 3 Press **◀ (<)** or **▶ (>)**:
To erase the channel
Press the button until "ERASE" is displayed in purple indicating that the channel has been erased from the memory.



To add the channel
Press the button until "ADD" is displayed in purple indicating that the channel has been memorized.

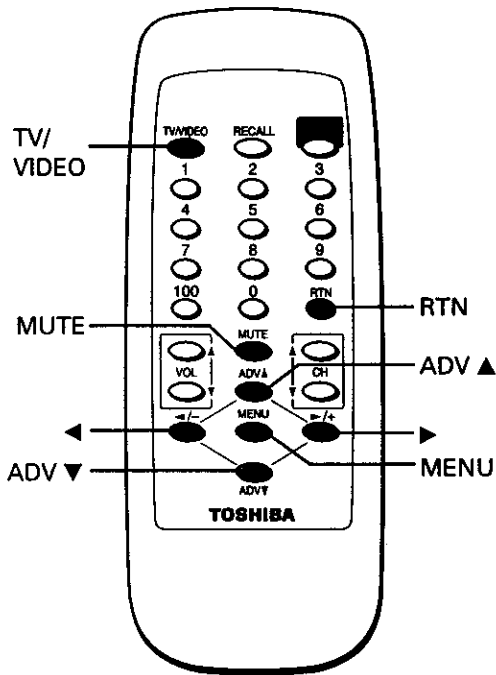


- 4 Repeat steps 1 to 3 for other channels.

You have now completed the channel programming.

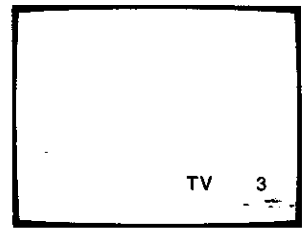
Convenient Remote Functions

BASIC OPERATION



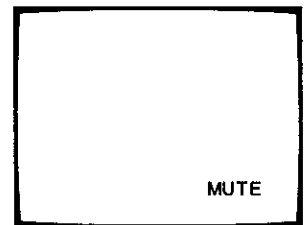
To select VCR channel

Press **TV/VIDEO** once to select channel 3 (VCR channel).
Use this button to watch a video tape playing.
To restore the channel, press **TV/VIDEO** again.



To mute the sound

Press **MUTE** to mute the sound. The word "MUTE" will be displayed on the screen as shown. This is useful during telephone calls or other interruptions.
To restore the sound, press **MUTE** again.



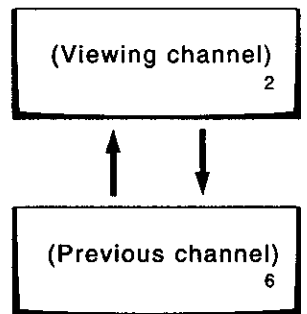
To change quickly between two channels

Press **RTN** to return to the last channel viewed. This is useful should you want to view two channels. This allows you to view two programs without entering an actual channel number each time.

To operate this function

- 1 Select the first channel you want to view.
- 2 Select the other channel with the Channel Number buttons.
- 3 Press **RTN**.
The previous channel will return.

Each time you press **RTN**, the TV will switch back and forth between the two channels.



Note on the MUTE function

When the MUTE button is pressed, the Closed-Captioned feature "C1" is activated. ("MUTE" on the screen display will disappear.) To deactivate, press the MUTE button again. (This feature only functions when the Closed Caption mode is set to "OFF".)

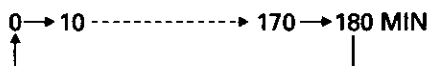
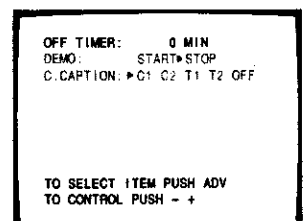
Notes on the OFF-timer

- To cancel the setting, press **POWER**.
To turn the TV on again, press **POWER**.
- The OFF-timer setting can also be performed using the **MENU** and **</>** buttons on the TV.

To set the OFF-timer

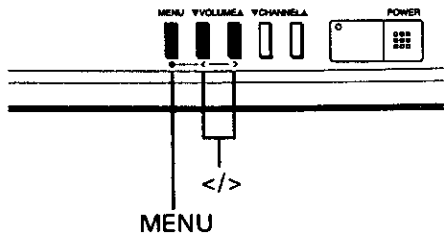
With the OFF timer, you can set the TV to turn off automatically after a predetermined period of time (up to 3 hours, in 10 minute units).

- 1 Press **MENU** then **ADV** ▲ or ▼ repeatedly until "OFF TIMER" in the Option menu is displayed in purple.
- 2 Press **<** or **>** to enter the length of time you want the TV to stay on. If you press the **>** button, the time display will increase 10 minutes or the **<** button the time display will decrease 10 minutes.



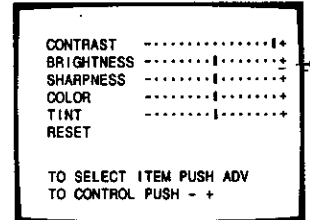
Adjusting the Picture

You can adjust the picture quality (CONTRAST, BRIGHTNESS, SHARPNESS, COLOR and TINT) to suit your personal preference.



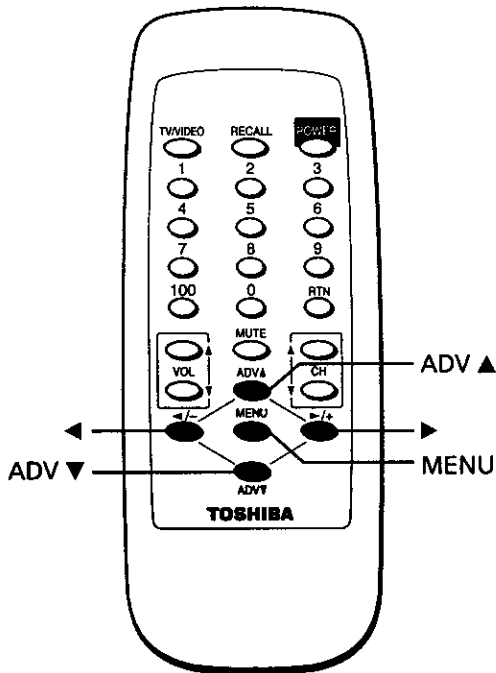
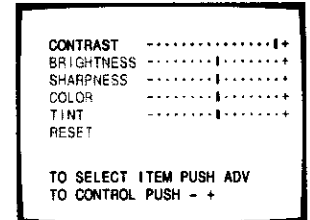
To adjust the picture quality

1 Press **MENU** (then **ADV ▲** or **▼**) repeatedly until the selection in the Picture menu is displayed in purple.



2 Press **◀ (<)** or **▶ (>)** to adjust the level.

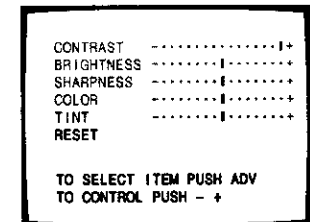
Example: CONTRAST adjustment mode display



Selection	Pressing	
	-	+
CONTRAST	lower	higher
BRIGHTNESS	darker	lighter
SHARPNESS	softer	sharper
COLOR	paler	deeper
TINT	reddish	greenish

To reset the **PICTURE** adjustment to the factory-preset level (maximum CONTRAST and all other adjustments centered)

1 Press **MENU** (then **ADV ▲** or **▼**) repeatedly until "RESET" in the Picture menu is displayed in purple.



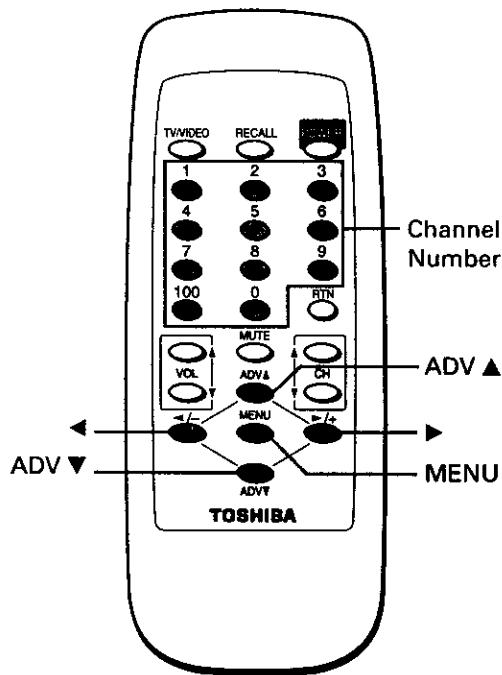
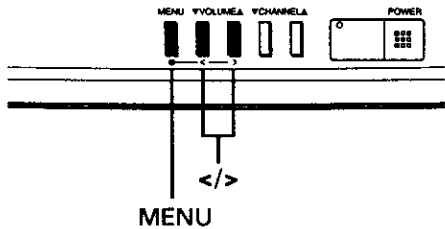
2 Press **◀ (<)** or **▶ (>)**.



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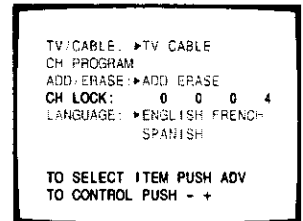
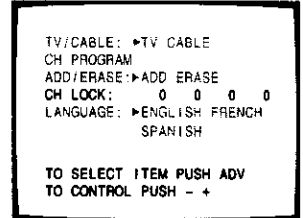
Locking Channels

This feature allows you to program the TV so that any specific channel cannot be viewed without the use of the Channel Number buttons on the Remote Control. There are 4 memory spaces for TV mode, 4 memory spaces for CABLE mode.



To lock out channels

- 1 Select a channel you want to lock out. (Example: channel 4)
- 2 Press **MENU** (then **ADV ▲** or **▼**) repeatedly until "CH LOCK" in the Set up menu is displayed in purple.
- 3 Press **◀ (<)** or **▶ (>)** until the channel number you selected "4" replaces the zero "0" in the channel lock program display.

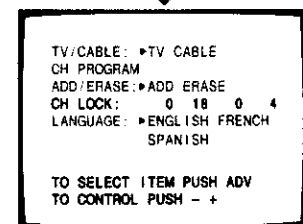
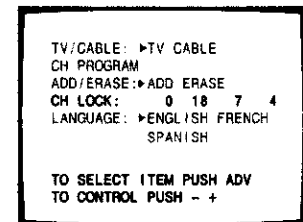


- 4 Repeat steps 1 to 3 for other channels.
- 5 Select another channel before turning off the TV.

If you want to know the channels you have locked out
Press **MENU** to display the Set up menu.

To restore channels

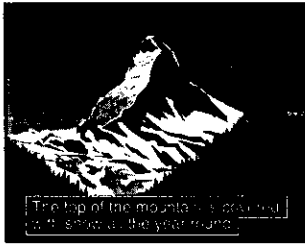
- 1 Select the channel you want to restore to normal viewing by pressing the **Channel Number** buttons. (Example: channel 7)
- 2 Press **MENU** (then **ADV ▲** or **▼**) repeatedly until "CH LOCK" in the Set up menu is displayed in purple.
- 3 Press **◀ (<)** or **▶ (>)** until a zero "0" replaces the channel number ("7" in this example) in the channel lock program display.



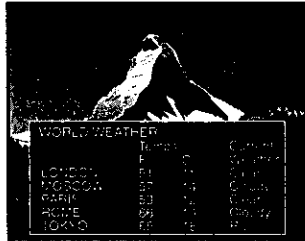
- 4 Repeat steps 1 to 3 for other channels.

Operating Closed Captioning Feature

CAPTION mode
example
display (C1, C2)



TEXT mode
example
display (T1, T2)



CAPTIONS

Closed captioning provides an on-screen display of the dialogue, narration, and/or sound effects of a TV program.

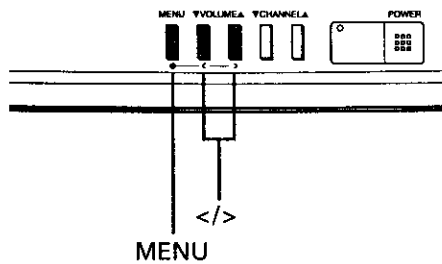
Captions will appear at either the top or bottom of the screen while a captioned broadcast is shown.

Captioning is especially helpful for hearing impaired individuals.

TEXT

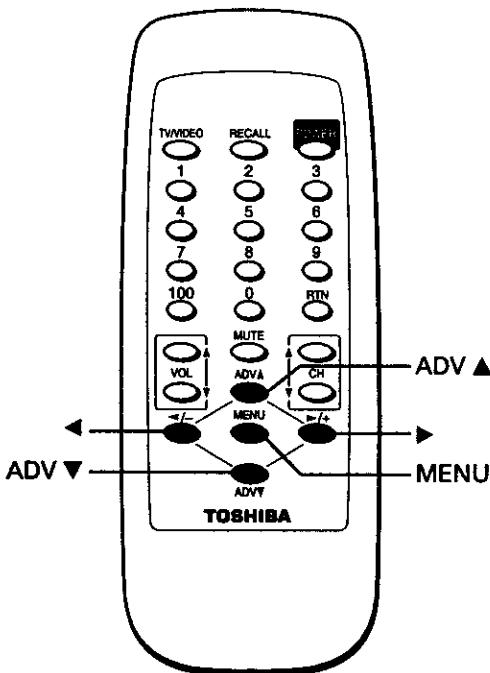
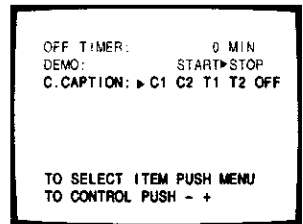
Text is information that is presented on a portion of the TV screen. It is usually not related to the program.

For example, it could be a listing of the closed-captioned programs, news, weather information or stock market reports.



To view captions or text

- 1 Select the desired program.
The captioned programs are usually noted in your local TV listings by service marks such as "CC".
- 2 Press **MENU** (then **ADV ▲** or **▼**) repeatedly until "C. CAPTION" in the Option menu is displayed in purple.
- 3 Press **◀ (<)** or **▶ (>)** until "C1", "C2", "T1" or "T2" is displayed in purple. ("C1" stands for CAPTION 1, for example.)
Select "C1" for translation of the primary language in your area.



To deactivate this feature

Select "OFF" in step 3 above.

Notes:

- A closed-captioned signal may not be decoded in the following situations.
 - When a video tape has been dubbed.
 - When the signal reception is weak.
 - When the signal has been changed or altered.
- If you select a closed-captioned channel and the "T1 or T2" mode, the TEXT screen always appears. However, the TEXT characters are not displayed when no signal is aired.

ADVANCED OPERATION

Cleaning and Care

WARNING: TV sets use High Voltage. Do not try to remove the cabinet back. Refer servicing to qualified service personnel.

- To clean the TV screen:
 1. First remove the plug from the power outlet to avoid possible shock hazard.
 2. Use a clean cellulose sponge or chamois cloth dampened with a solution of mild detergent and warm water to clean TV screen and trim. Do not use too much water on the TV screen. Water spills into the cabinet and may cause damage to the TV. Avoid excess water.
 3. Remove any extra moisture with the same cloth or a dry one.
 - To maintain the finish and appearance of the cabinet, polish it from time to time with a quality furniture polish.
- Caution:** Never use strong solvents such as thinner, benzene or other chemicals on or near cabinet, as they might damage the finish of the cabinet.

Before Calling Service Personnel

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

Problem	Checks and Adjustments	Page
TV will not turn on	<ul style="list-style-type: none"> ● Make sure the power cord is plugged in, then press POWER button. ● Check battery in remote. (Maybe batteries are "dead".) 	
No picture, no sound	<ul style="list-style-type: none"> ● If watching VCR, make sure TV is tuned to channel 3 or 4. ● Check antenna/cable connections. 	
No sound, picture OK	<ul style="list-style-type: none"> ● Maybe sound is muted. Try pressing VOLUME ▲ button. ● Try another channel. (Maybe station trouble.) 	
Poor sound, picture OK	<ul style="list-style-type: none"> ● Try another channel. (Maybe station trouble or local interference from appliance.) 	
Poor picture, sound OK	<ul style="list-style-type: none"> ● Check antenna/cable connections. ● Try another channel. (Maybe station trouble or local interference.) ● Adjust Picture menu. 	11
Poor reception of broadcast channels	<ul style="list-style-type: none"> ● Try another channel. ● Check antenna connections. ● If using VCR, check TV/VCR switch on the VCR. 	
No UHF, VHF OK	<ul style="list-style-type: none"> ● Make sure TV/CABLE function is in "TV" mode. 	8
Unable to select a certain channel with CHANNEL ▲/▼ buttons	<ul style="list-style-type: none"> ● That channel may be locked out with CH LOCK function, or erased with the ADD/ERASE function. 	12 9
Black box appears on the screen	<ul style="list-style-type: none"> ● Captioning may be turned on. Captioning/Text. 	13
Multiple images (ghosts)	<ul style="list-style-type: none"> ● Try another channel. (Maybe station trouble.) ● Use a highly directional outdoor antenna. 	
Poor color or no color	<ul style="list-style-type: none"> ● Try another channel. (Maybe station trouble or local interference.) ● Adjust TINT and/or COLOR in the Picture menu. ● If you change the direction of the TV while the TV is activated, the picture may suffer from color shading. If so, turn off the TV and allow it to cool for about 30 minutes, then turn on the TV again. The picture should improve. 	11
The Remote Control does not operate	<ul style="list-style-type: none"> ● Maybe something was between the Remote and the remote sensor. ● Maybe batteries are dead. Try replacing batteries with new ones. Insert them with the correct polarity. 	

Limited United States Warranty

Toshiba America Consumer Products, Inc. ("TACP") and Toshiba Hawaii Inc. ("THI") make the following limited warranties. These limited warranties extend to the original consumer purchaser or any person receiving this set as a gift from the original consumer purchaser and to no other purchaser or transferee.

Limited Ninety (90) Day Warranty

TACP and THI warrant this product and its parts against defects in materials or workmanship for a period of ninety (90) days after the date of original retail purchase. During this period, TACP and THI will repair a defective product or part, without charge to you. You must deliver the entire set to an Authorized TACP/THI Service Station. You pay for all transportation and insurance charges for the set to and from the Service Station.

Limited One (1) Year Warranty

TACP / THI further warrant the parts in this product against defects in materials or workmanship for a period of one year after the date of original retail purchase. During this period TACP/THI will replace a defective part without charge to you, except that if a defective part is replaced after ninety (90) days from the date of original retail purchase you pay labor charges involved in the replacement. You must also deliver the entire product to a TACP/THI Authorized Service Station. You are responsible for all transportation for the set to and from the Service Station.

Limited Two (2) Year Warranty of Picture Tube

TACP and THI further warrant the picture tube in this product against defects in materials or workmanship for a period of two (2) years after the date of original retail purchase. During this period, TACP/THI will replace a defective picture tube without charge to you, except that if a defective picture tube is replaced after ninety (90) days from the date of the original retail purchase, you pay labor charges involved in the replacement. You are responsible for all transportation and insurance charges for the set to and from the Service Station.

Rental Units

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

How to Obtain Warranty Service

If after following all of the operating instructions in this manual and checking the section "BEFORE CALLING SERVICE PERSONNEL", you find that service is needed;

- (1) In the U.S.A. call the TACP toll free number 1-800-631-3811 after you find a defective product or part to find the nearest Toshiba Authorized Service Station.
- (2) Arrange for the delivery of the product to the Authorized TACP/THI Service Station. Products shipped to the Authorized Service Station must be insured and safely and securely packed, preferably in the original carton, and a letter explaining the problem must be enclosed. You are responsible for all transportation and insurance charges to and from the Authorized Service Station.

In the Continental United States call:



HAWAII, 327 Kamakee Street, Honolulu, HI 96814
(808) 521-5377

®

All warranties implied by state law, including the implied warranties of merchantability and fitness for a particular purpose, are expressly limited to the duration of the limited warranties set forth above. With the exception of any warranties implied by state law as hereby limited, the foregoing warranty is exclusive and in lieu of all other warranties, guarantees, agreements and similar obligations of manufacturer or seller with respect to the repair or replacement of any parts. In no event shall TACP or THI be liable for consequential or incidental damages.

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

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state. Some states do not allow limitation on how long an implied warranty lasts, when an action may be brought, or the exclusion or limitation of incidental or consequential damages, so the above provisions may not apply to you.

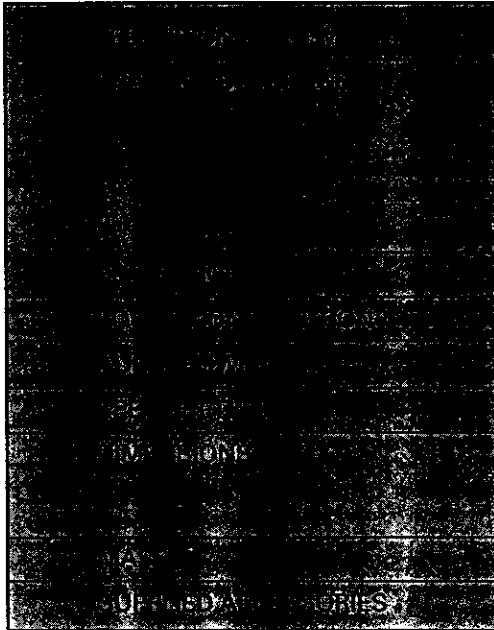


ATTENTION CANADIAN CONSUMERS:

Canadian consumers are requested to complete the special Canadian "Warranty Registration Form" enclosed, and forward this completed form with a copy of bill of sale to TOSHIBA OF CANADA to "Register and Validate" their warranty. Products must be purchased from an Authorized Canadian Dealer.

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.

Specifications

	NTSC standard
	VHF; 2 through 13 UHF; 14 through 69 Cable TV; mid band (A-8 through A-1, A through I) super band (J through W) hyper band (AA through ZZ, AAA, BBB) ultra band (65 through 94, 100 through 125)
	120V AC, 60Hz
	61W (average)
	1W
	2-3/4 inches round
	Width 20-15/32 inches (520mm) Height 17-13/32 inches (441mm) Depth 18-25/64 inches (467mm)
	34.4 lbs (16.5kg)
	Remote Control with 2 size "AA" batteries

Design and specifications are subject to change without notice

TOSHIBA AMERICA CONSUMER PRODUCTS, INC.

HEAD OFFICE/82 TOTOWA ROAD, WAYNE, NEW JERSEY 07470

FACTORY SERVICE CENTERS/NORTHEAST: 82 TOTOWA ROAD, WAYNE, NEW JERSEY 07470

MIDWEST: 1010 JOHNSON DRIVE, BUFFALO GROVE, ILLINOIS 60089-6900

WEST: 5490 E. FRANCIS ST., ONTARIO, CA 91761

SOUTHWEST: 1421 CHAMPION DRIVE, SUITE 304 CARROLLTON, TEXAS 75006

SOUTHEAST: 6115 JIMMY CARTER BLVD., SUITE C2, NORCROSS, GA 30071-4607

TOSHIBA HAWAII, INC.

HEAD OFFICE/327 KAMAKEE STREET, HONOLULU, HAWAII 96814, U.S.A.

TOSHIBA OF CANADA LTD.

HEAD OFFICE/191 McNABB STREET, MARKHAM, ONTARIO, L3R 8H2, CANADA TEL: (905) 470-5400

SERVICE CENTERS/TORONTO: 191 McNABB STREET, MARKHAM, ONTARIO, L3R 8H2, CANADA TEL: (905) 470-5400

MONTREAL: 1643, NORTH SERVICE RD., TRANS-CANADA HIGHWAY, DORVAL QUEBEC, H9P 1J1, CANADA

TEL: (514) 856-4100

VANCOUVER: 22171 FRASERWOOD WAY, RICHMOND, B.C. V6W 1J5

TEL: (604) 303-2500

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