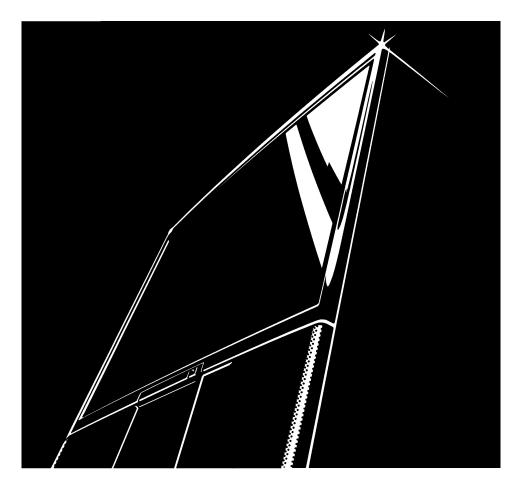
### **TOSHIBA**

# Projection Television OWNER'S MANUAL

## **TP50H60/TP55H60/TP61H60**ColorStream<sup>™</sup>



#### **Dear Customer**

Welcome to the high quality picture world created by the TOSHIBA Projection Color

This manual will help you use the TV's many exciting and useful features.

Before operating the TV, please read all the safety and operating instructions in this manual thoroughly, and keep the manual for future reference.

#### **Customer's Record**

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

Record these numbers in the spaces provided below.

Refer to them whenever you call upon your TOSHIBA dealer regarding this product.

Serial Number Model Number

### Safety Precautions

#### **WARNING:**

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



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



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



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

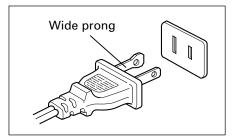
#### **CAUTION:**

As a safety feature, the AC 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

DO NOT CHANGE THE SAFETY FEATURE OF THE PLUG.



#### **CAUTION:**

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 OF THE POLARIZED PLUG.

#### NOTE TO CATV SYSTEM INSTALLERS 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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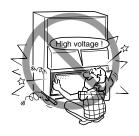
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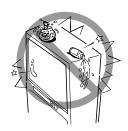
#### **CHAPTER 1 INTRODUCTION —**

### **Care and Cleaning**













#### Care

Do not stand or climb on the TV.

- The TV is dangerous if broken or if it has fallen over.
- Be careful when children are present.

Do not remove the back cover and never remodel the cabinet or components.

Let only qualified technicians check and adjust your TV.

Do not place containers with liquids such as drinks or cosmetics on the TV.

If any foreign material or water leaks into the TV, unplug the AC cord and contact your dealer.

Keep magnets, toys with magnets, electric clocks, speakers, etc. away from the  ${\sf TV}$ .

#### Cleaning

Do not use solvents such as benzine or thinner to clean the TV.

- These solvents may distort the cabinet or damage its finish.
- If rubber or vinyl products remain in contact with the TV for a long time, a stain may result.

When the cabinet becomes dirty, clean it with a soft, dry cloth. When the cabinet is very dirty,

- 1) Use a damp cloth to wipe the cabinet clean.
- 2 Finish with a dry cloth.

When cleaning the screen:

- 1 Turn off the TV.
- 2 Clean the screen with a soft, dry cloth.



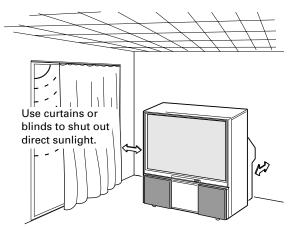




### Installation

#### To install the TV

Downward spot lights or fluorescent lights in an overhead "Honeycomb" prevent direct illumination of the screen.



Cover shiny surfaces (floor and walls) with non-reflective materials (carpet, rugs, wallpaper, etc.).

#### Where to install

Place the TV on the floor or on a sturdy platform. The mounting surface should be flat and steady. If you install the TV on a soft floor, make sure that the floor is not damaged by the weight of the TV.

#### **Air Circulation**

Place the TV far enough away 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.

#### **Heat Damage**

Damage may occur if you leave the TV in direct sunlight or near a heater. Avoid places subject to extremely high temperatures or humidity, and temperatures of 41°F (5°C) or lower.

#### **Power Supply**

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

See page 2.

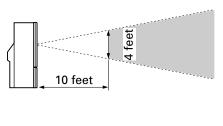
#### **Moisture Condensation**

If the room temperature suddenly rises (or if the TV is moved from a cool place to a hot place), condensation may occur on the lenses resulting in picture distortion or color fading. In such a case, simply wait a while (with the power on) and the condensation will evaporate.

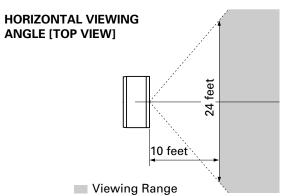
#### **Best Viewing**

Sit approximately 10-25 feet away from the TV. Sitting too far to the left or right of the screen will cause the picture to appear dull as will direct sunlight and room lights. Turn the TV off to check for reflections on the screen. Then remove the source of any reflections while viewing.

#### VERTICAL VIEWING ANGLE [SIDE VIEW]



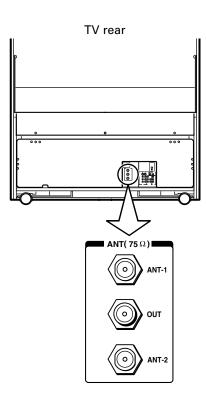
Viewing Range



#### **CHAPTER 1 INTRODUCTION-**

## Antenna/Cable TV Connections

- You can use either an indoor or outdoor antenna to receive VHF and 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 the cable supplied by your local cable company.



#### Types of antenna cables

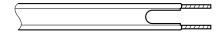
Shown below are two basic types of antenna cables. Signals from a home antenna may be conveyed by either type. Cable TV signals are conveyed by a 75 ohm coaxial cable.

① A 75 ohm coaxial cable is generally a round cable with F-type connectors that can easily be attached to a terminal without tools.

F-type connector (Not supplied)



② A 300 ohm cable is a flat "twin-lead" cable that can be attached to a terminal using the supplied antenna adapter.



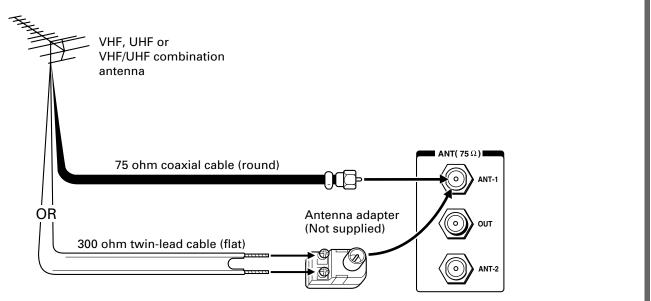
#### Antenna connection panel

There are two separate 75 ohm F-type connector input terminals and a converter output terminal as shown at the left.

The ANT-1 and ANT-2 terminals are for connecting a VHF/UHF antenna or cable TV system. The signal input through ANT-1 is output from the OUT terminal whenever the RF switch on the TV is in the ANT-2 position. You can switch between the ANT-1 and ANT-2 inputs in the ANT 1/2 menu or with the **ANT/VIDEO** button on the TV. See page 21.

#### To connect a home antenna

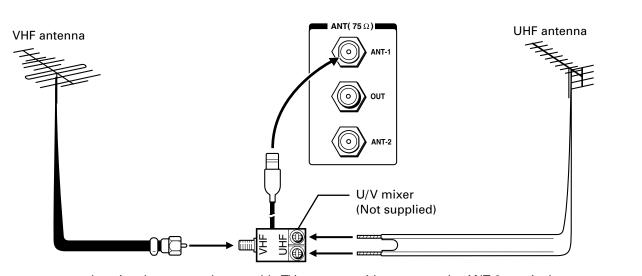
#### Single antenna cable



#### Note:

You can connect another signal source such as a cable TV system or video game to the ANT-2 terminal.

#### Separate VHF and UHF antenna cables



#### Note:

You can connect another signal source such as a cable TV system or video game to the ANT-2 terminal.

**CHAPTER 1 INTRODUCTION-**

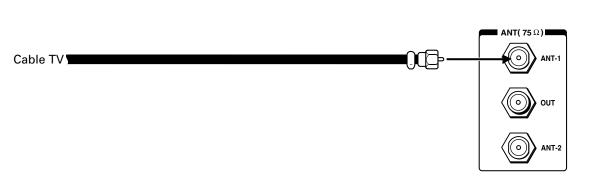
## Antenna/Cable TV Connections (continued)

#### To connect a Cable TV

Generally, the cable TV system can be connected directly to the TV's antenna terminal just like a home antenna. (A-1)

Some cable companies, however, offer premium pay channels. Since premium pay channel signals are scrambled, a cable TV converter/decoder is generally provided to subscribers by the cable TV company. This decoder box is necessary for normal viewing of the scrambled channels. We recommend that you consult your cable TV company for more specific instructions on installing cable TV. (A-2)

#### (A-1) Cable without a decoder box (Unscrambled channels)

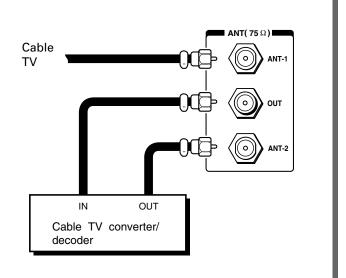


#### Note:

You can connect another signal source such as an antenna or video game to the ANT-2 terminal.

#### (A-2) Cable with a decoder box (Scrambled and Unscrambled channels)

- The unscrambled channels are input through the ANT-1 terminal whenever the ANT1/2 menu, or the ANT/VIDEO button on the TV, is in "ANT 1" mode. See page 21.
- The scrambled channels from the decoding device are input through the ANT-2 terminal whenever the ANT 1/2 menu, or the ANT/VIDEO button, is in "ANT 2" mode. Set the TV to channel 3 or 4 to match the output channel of the decoding device.

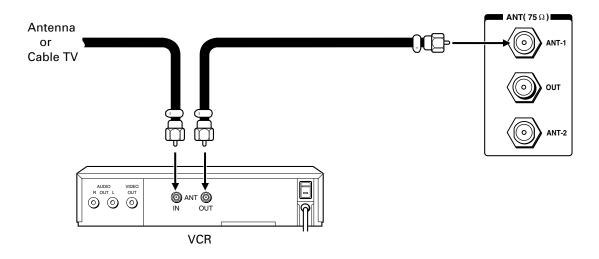


#### Note:

The decoding device may or may not be a part of the cable converter.

#### To connect an Antenna/Cable TV and VCR

#### Antenna/Cable TV connection via VCR (Simplified method)

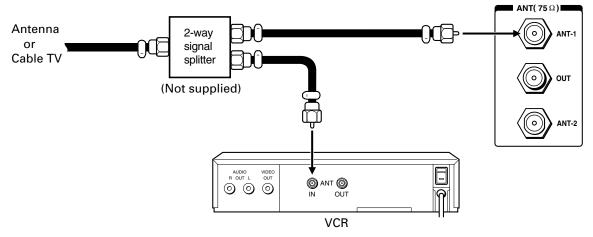


#### Notes:

- Tape playback may often cause the VCR to interrupt the antenna signal to the TV. If you cannot select a certain channel, try pressing the TV/VCR button on the Remote Control.
- VIDEO/AUDIO connections from the VCR to the TV are required for stereo tape playback from stereo VCRs. See page 51.

#### Using a 2-way signal splitter

You can view either TV programs or VCR tapes regardless of the position of the VCR's TV/VCR switch.



#### Note:

VIDEO/AUDIO connections from the VCR to the TV are required for playback. See page 51.

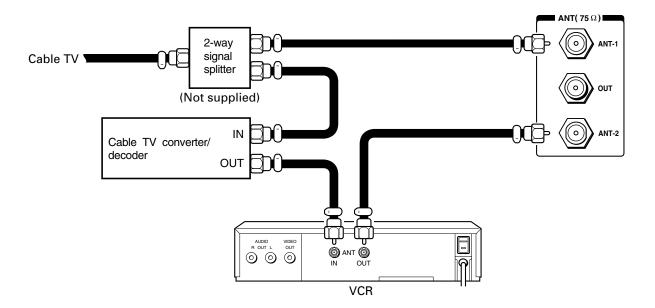
**CHAPTER 1 INTRODUCTION-**

## Antenna/Cable TV Connections (continued)

#### To connect an Antenna/Cable TV and VCR (continued)

#### Cable with a decoder box

- The unscrambled channels are input through the ANT 1 terminal whenever the ANT1/2 menu, or the **ANT/VIDEO** button on the TV, is in the "ANT 1" position. See page 21.
- The scrambled channels from the decoder box are input through the VCR and the ANT 2 terminal whenever the ANT1/2 menu, or the ANT/VIDEO button, is in the "ANT 2" position. Set the TV and the VCR to channel 3 or 4 to match the output channel of the decoding device.

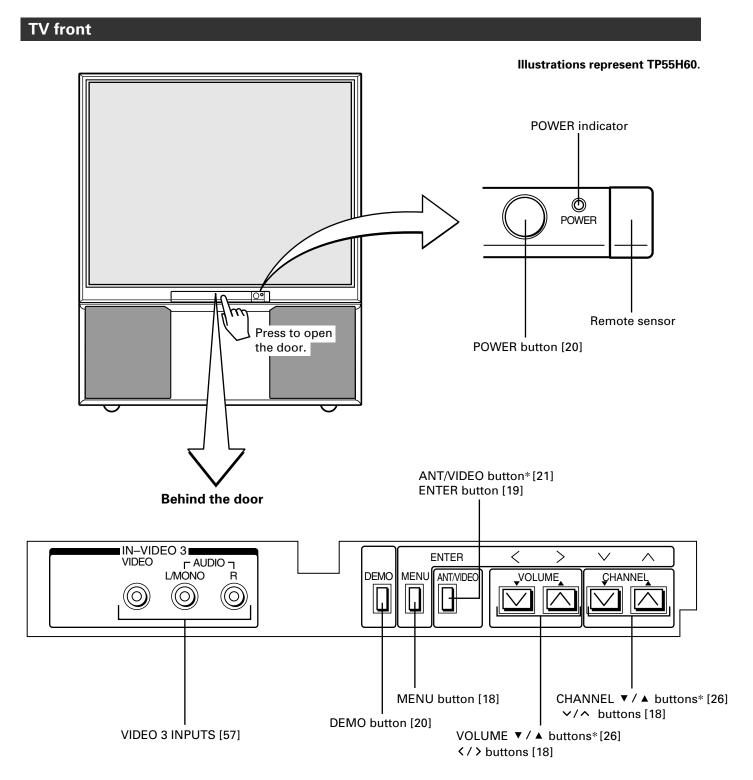


#### Notes:

- VIDEO/AUDIO connections from the VCR to the TV are required for stereo tape playback from stereo VCRs. See page 51.
- The decoding device may or may not be a part of the cable converter.

### **Location of Controls**

• The following describes the functions of each part of the TV and the Remote Control. For details on the use of each control, refer to the page numbers in brackets.

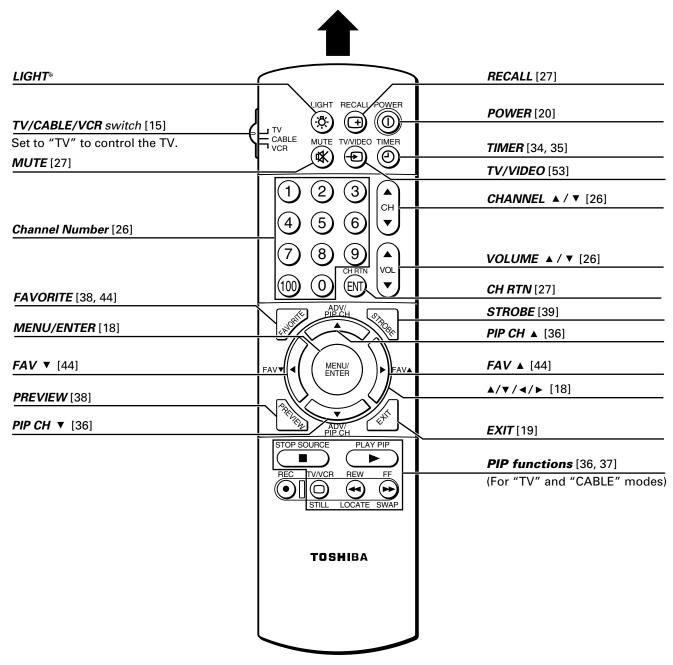


### Location of Controls (continued)

#### **Remote Control**

Only the buttons used to operate the TV are described here. For details on the use of each control, refer to the pages in brackets.

#### Aim at the remote sensor on the TV



You can light up these buttons by pushing LIGHT.

## **Before Using the Remote Control**

#### Introduction and battery installation

With this Remote Control, you can operate your TV and most VCR and cable box models regardless of the manufacturer. However, this Remote Control must first be programmed to control other VCR and cable box brands. See page 15.

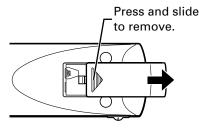
If you have a TOSHIBA VCR, your Remote Control has already been programmed for you. Before attempting to operate your Remote Control, install the batteries according to "To install the batteries" below.

#### Notes:

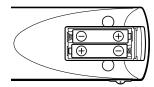
- After installing new batteries, the Remote Control will set itself to the codes for TOSHIBA TVs and VCRs. If you are
  using the Remote Control to operate other manufacturer's equipment, you will have to reprogram those codes.
- This Remote Control may have functions not available on your VCR and cable box remote controllers.
   These functions may or may not operate your VCR or cable box. Refer to the owner's manuals supplied with the equipment to see which functions are available.
- The remote controller supplied with your VCR or cable box may have keys not duplicated on this Remote Control. If you want to use these functions, please use the original remote controller.

#### To install the batteries

Place the Remote Control face down and remove the battery cover.



Insert two "AA" size alkaline batteries, matching the + and – signs on each battery with the + and – signs in the battery compartment.



Slide the battery cover shut until the lock clicks.

#### **CAUTIONS**

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

#### Tips for best operation

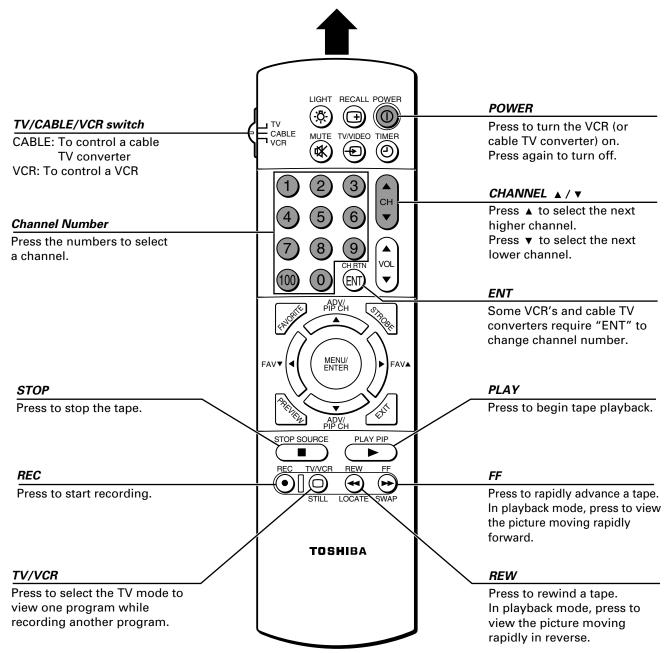
- For optimum performance, aim the Remote Control directly at the TV from a distance within 16 feet (5 m), and be sure there is no obstruction between the Remote Control and the TV.
- If your Remote Control does not always operate the TV as you wish, you probably need to replace the batteries. Use alkaline batteries for longer use.
- If the Remote Control will not be used for a long period of time or when the batteries are worn out, remove the batteries to prevent leakage.
- Do not drop, dampen or disassemble the Remote Control.

# Using the Remote with VCR or Cable TV Converter

#### **VCR and CABLE function buttons**

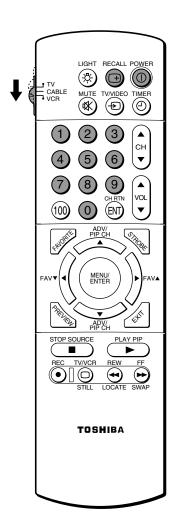
- To control a TOSHIBA VCR, first set the TV/CABLE/VCR switch to "VCR." The buttons shown below will then control the VCR. The rest of the buttons operate the TV as usual.
- If you have another brand of VCR, you can probably program the Remote Control to control it. Details are on page 15.
- To control a cable TV converter, this Remote Control must be programmed to recognize the brand of your converter.
   See page 15. The shaded buttons can be used to control the cable TV converter.
   Set the TV/CABLE/VCR switch to "CABLE" whenever you want to control the cable TV converter.

#### Aim at the VCR or cable TV converter



## Programming the Remote Control

#### To program the Remote Control



For future reference, write the code number you set.

VCR CODE:

**CABLE CODE:** 

#### Note:

You have to reprogram the Remote Control when you change its batteries.

- This Remote Control is programmed to operate TOSHIBA VCRs.
- To operate VCRs (or Cable converters) other than TOSHIBA models, perform the following procedures before operating.
- Refer to the "VCR code table" (or "Cable TV converter code table") on pages 16 and 17 to find the code number that corresponds to the brand name of your VCR (or your converter).

If more than one number is listed, try each one separately until you find the one that works.

- **9** Set the **TV/CABLE/VCR** switch to "VCR" (or "CABLE").
- While holding down **RECALL**, press the **Number** buttons to enter the three digit code number for your brand of VCR (or converter).
- Point the Remote Control at the VCR (or at the converter) and press **POWER** to test the code number.
  - —If the number is correct, the VCR should turn on.
  - —If the VCR does not respond to the Remote Control, repeat steps 1 through 4 with another code number.
- Reset the TV/CABLE/VCR switch to "TV" to control the TV.

#### Notes

- Some newer VCRs are capable of working on either of two remote codes. These VCRs have a switch labeled "VCR 1/VCR 2."
   If your VCR has this kind of switch, and does not respond to any of the code numbers for your VCR brand name, set the switch to the other position ("VCR 1" or "VCR 2") and reprogram the Remote Control.
- In some rare cases, you may not be able to operate your non-TOSHIBA equipment with the supplied Remote Control. This is because your equipment may use a code that is not provided with this Remote Control. In this case, please use the equipment's own remote control.

#### **CHAPTER 1 INTRODUCTION -**

## Programming the Remote Control (continued)

• The code numbers listed below were the most recent ones available at the time of printing. New code numbers may or may not have been added since printing.

VCR code table

BRAND NAME	CODE NUMBER	BRAND NAME	CODE NUMBER	BRAND NAME	CODE NUMBER
Adventura	. 019	Fisher	. 065, 066, 073, 085,	MGN Technology	. 259
Aiko				Minolta	. 061, 124
Aiwa		Frontech		Mitsubishi	. 062, 080, 086, 094,
Akai	. 060, 068, 080, 125,	Fuji			100, 192, 233, 261
	261	Fnai		Motorola	
Akiba		Garrard		MTC	·
Alba		GE		Multitech	
American High		GEC		Murphy	
Amstrad		General		NEC	
Anam		Go Video		Naakarmann	086
Anitech ASA		Goldstar Goodmans		Neckermann Nesco	
Asha		doodinans	091, 297	Nikko	
Asuka		Gradiente		Noblex	
Audiovox		Graetz		Nokia	
Baird		Granada			259
Basic Line		Grandin		Nordmende	. 060
Beaumark	259	Grundig	. 100	Oceanic	. 019
Bell & Hawell	. 123	Harley Davidson	. 019	Olympus	. 054
Blaupunkt	. 053, 181	Harman/Kardon	. 057, 094	Optimus	. 056, 067
Brandt		Harwood		Optonica	
Broksonic		HCM		Orion	
Bush		Headquarter		Osaki	
Calix		HI-Q		Otto Versand	
Canon		Hinari		Palladdium	
Capehart		Hitachi		Panasonic	
Carver		Llumaan	124, 254	Dammau	244
CCE	·	Hypson		Penney	
CGE Cimline		Imperial Interfunk		Pentax	061, 073, 259
Citizen		ITT		Perdio	
Clatronic		ITV		Philco	
Colt		JCL		Philips	
Condor		Jensen		Phonola	
Craig		JVC		Pilot	
Crown		Kaisui		Pioneer	. 086, 100
Curtis Mathes	054, 079	Kendo	. 125, 228	Portland	. 039
Cybernex	259	Kenwood	. 057, 060, 065, 086	Profitronic	. 259
Daewoo		KLH	. 091	Proline	. 019
Dansai		Kodak	· · · · · · · · · · · · · · · · · · ·	protec	
Daytron		Korpel		Pulsar	
De Graff		Leyco		Pye	
Decca		Lloyd		Quarter	
Dual		Loewe		Quartz	
Dumont		Loewe opta		Quasar	
Dynatech		logik	.091,259	Quelle Radio Shack	
Electrohomo		Luxor		Radiola	
Electrohome Electronic		LXI M-Electronic		Radix	
Electrophonic		Magnavox		Randex	
Emerex		wagnavox	129, 168	RCA	
Emerson		Magnin	'	110/11111111111111111111111111111111111	096, 115, 124, 125,
L111010011 1111111111111111	080, 087, 140, 203,	Manesth			168, 221
	227, 228, 230, 231,	Narantz		RCA Unified	•
	313, 314, 380	Marta		Realistic	
ESC		Masushita			066, 067, 081, 085,
Ferguson		Matsui			123, 259
Fidelity		MEI		Rex	. 060
Finlandia	. 100, 123, 129	Memorex	. 019, 054, 056, 058,	Ricoh	
Finlux			065, 066, 067, 123,	Roadstar	
<b>_</b>	124		259	Runco	
Firstline		Memphis		Saba	
	228	Metz		Saisho	·
		MGA	. 062, 080	Salora	. 062, 065, 125

#### Cable TV converter code table

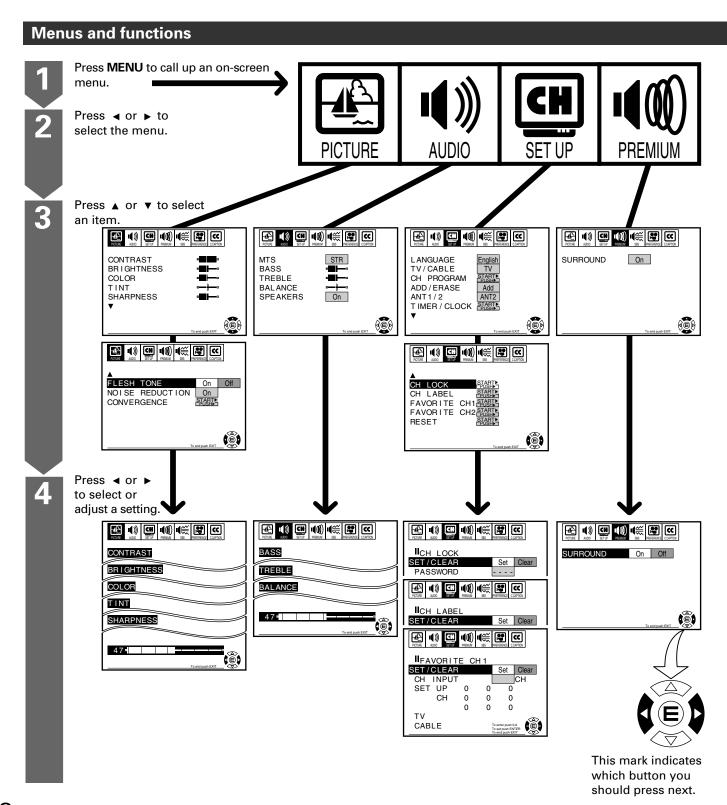
BRAND NAME	CODE NUMBER
Sansung	064, 259
Sanky	
Sansui	
Sanvo	065, 066, 123, 259
SBR	
Schaub Lorenz	
Schneider	019, 091, 100, 129
	062, 064, 140, 203,
	229, 230, 231
Sears	054, 056, 061, 065,
	066, 073, 085, 123,
	124
SEG	259
SEI	100
Seleco	060
Sentra	039
Sharp	067, 081
Shintom	
Shgun	259
Siemens	
Silva	056
Singer	091
Sindyne	
Sontec	
Sony	051, 052, 053, 054
STS	
Sunstar	019
Sylvania	019, 054, 062, 100,
	129
Symphonic	019
Tandy	019, 123
Tashiko	
Tatung	
Teac	
Technics	054, 181
	019, 054, 056, 071
Teleavia	
Telefunken	
Tenosal	
Tensai	
Thomson	
Thorn	
TMK	
Toshiba	060, 062, 064, 085,
<b>+</b>	229, 231, 385
Totevision	
Triumph	227
Untech	259
Universum	019, 056, 068, 100,
Vector	125
vector	064
Vector research	
Victor Video Concepts	027, 060, 086
Video Concepts	059, 064, 080
Videosonic	
vvarus	019, 054, 061, 066,
	067, 081, 091, 168, 231, 259
XR-1000	
Yamaha	
Yamishi	007, 000 NG1
Yokan	
Yoko	
Zenith	
Z0111(11	552, 555, 556

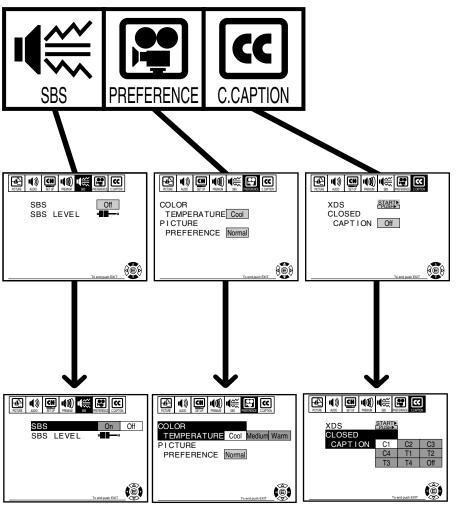
<b>BRAND NAME</b>	
ABC	. 020, 022, 026, 030,
	032, 033, 036, 066
Antronix	.041
Archer Belcor	
Cable Star	
Cabletenna	
Cableview	. 041
Century	
Citizun	
Color Voice	
Comtronics	
Contec Eastern	
Garrard	
GC Electronics	
Gemini	
General	
Instrument	. 030
Hamlin	
Hitachi	292
Hytex	
Jasco	
Jerrold	
	034, 043, 045, 066,
	295
Macom	
Magnavox	
Memorex Movie Time	
NSC	
Oak	. 026. 038. 267
Panasonic	
Paragon	
Philips	
Pioneer	049, 050, 079, 172
	. 042, 163
Popular Mechanics	<i>/</i> 110
Pulsar	
PVP Stereo	. 0 . 0
Visual Matrix	. 022
RCA	
Regal	. 039, 278, 292
Regency	
Rembrandt	,
Runco Samsung	.019
Scientific Atlanta	. 025, 027, 036, 296,
	346
Signal	. 034, 059
Signature	
SL Marx	
Sprucer Standard	. 040
Components	174
Starcom	
Stargate	
Starquest	
STS	. 175
Sylvania	
Teleview	
Texcan	. UZU

BRAND NAME	CODE NUMBER
Tocom	031, 032, 078
Toshiba	019
Tusa	034
Unika	041, 172
United Artists	026
United Cable	
Universal	041, 058, 075, 096,
	172, 210
Viewstar	
Zenith	019

### Quick Reference Menu Guide

• We recommend that you familiarize yourself with these procedures for using the Menu function.







#### Notes:

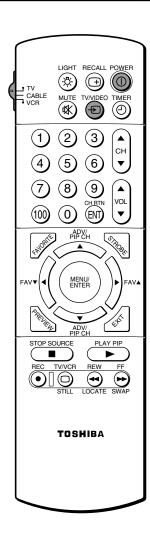
- Use the **ENTER** button to activate the function settings in the SET UP menu after step 4.
- The main menu display will disappear automatically if you do not press a button within 15 seconds, and the other displays will disappear within 6 seconds.
- If you want to close all the on-screen displays instantly, press the **EXIT** button on the Remote Control.
- The ✓/^ buttons on the TV function as the CHANNEL
   ▼ / ▲ buttons when no menu display is on the screen.
- The ⟨/⟩ buttons on the TV function as the VOLUME
   ✓/ ▲ buttons when no menu display is on the screen.
- The ◀/► buttons on the Remote Control function as the
   FAV ▼ and ▲ buttons when no menu display is on the screen.

### Turning the TV On/Off

#### To turn the TV on/off

First set the TV/CABLE/VCR switch on the Remote Control to "TV."





#### Note:

The **TV/VIDEO** button or **ANT/VIDEO** button is used to input signals from other sources such as VCRs or Laser Disc Players connected to this TV. See page 53 for details.

Press **POWER** on the Remote Control or the TV.

The picture will appear in a few seconds.

- The following on-screen information will be displayed for a few seconds.
  - Antenna input (when in TV mode)
  - Channel label (if previously preset)
  - Channel number or VIDEO mode selected
  - STEREO or SAP audio status
- 7 To turn the TV off, press POWER again.

# STEREO SAP ANT 2 WXYZ TV 4

#### Auto-Power-Off

If an empty channel is selected, or the TV broadcast for the day is finished, the TV will automatically turn off after about 15 minutes. This *Auto-Power-Off* feature does not operate in the VIDEO mode.

#### Last Mode Memory

If the power supply is cut off while you are watching the TV, the *Last Mode Memory* feature automatically turns on the TV when the power is restored. If you know the power is going to be cut off, or you are leaving home for a long time, remove the power plug from the wall outlet to prevent the TV from turning on in your absence.

#### **Demonstration mode**

When you press **DEMO**, the TV will automatically display a variety of its on-screen menus and special features. This function is provided for demonstration purposes only. Press **DEMO**.

The on-screen demonstration will start after about 4 seconds.

- While in TV or VIDEO mode, the Multi-Window features demonstrate.
- While in "COLOR STREAM" mode, other menus and features demonstrate.

**To stop the on-screen demonstration** Press Exit, Recall on Remote or DEMO.

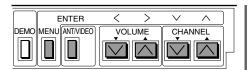
TOSHIBA COLOR TV

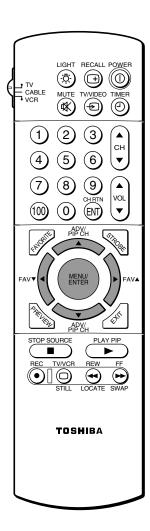
OTECHNOLOGY
OPERFORMANCE
OEXCITEMENT

### Selecting the Antenna Input

• Your TV has two separate antenna inputs (ANT 1 and ANT 2) that allow you to connect two different signal sources, if desired.

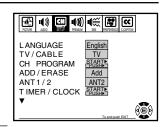
#### To select the antenna input



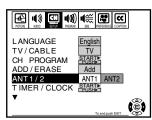


#### Using the SET UP menu

Press **MENU**, then press ◀ or ▶ until the SET UP menu appears.



Press ▼ (or ▲) until "ANT 1/2" is highlighted.

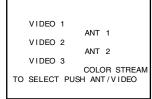


**3** Press **◄** or **▶** to select "ANT 1" or "ANT 2."

#### Using the ANT/VIDEO button (on the TV)

Each time you press this button, the ANT 1, VIDEO 1, VIDEO 2, VIDEO 3, COLOR STREAM or ANT 2 mode will be selected in this order. The selected mode will be displayed in purple to show which signal source you are watching.

Press the button until "ANT 1" or "ANT 2" is displayed in purple to match the antenna terminal you want to use.



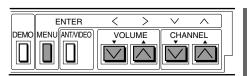
#### Note:

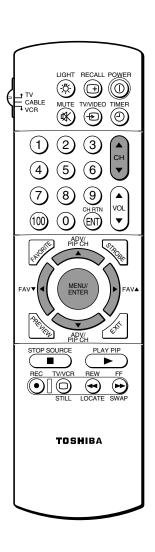
This button functions as the **ENTER** button while the menu is on the screen.

## Programming Channel Memory

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

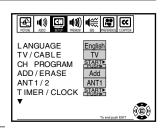
#### TV/CABLE and CH PROGRAM functions



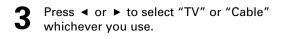


#### TV/CABLE function

Press **MENU**, then press ◀ or ▶ until the SET UP menu appears.



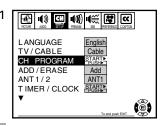
Press ▼ (or ▲ ) until "TV/CABLE" is highlighted.





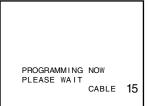
#### CH PROGRAM function

Select "CH PROGRAM" following steps 1 and 2 above.

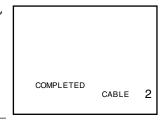


**2** Press **◄** or **▶** to start channel programming.

The TV automatically cycles through all TV or CABLE channels depending on the mode selected, storing received channels in the channel memory.

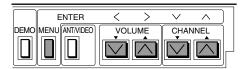


When channel programming is complete, the message at the right appears.



Press **CHANNEL** ▲ / ▼ to make sure channel programming has been done properly.

#### **ADD/ERASE function**



LIGHT RECALL POWER

CABLE

TV

CABLE

MUTE TV/VIDEO TIMER

CHEN

TOSHIBA

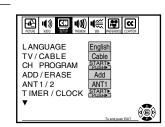
LIGHT RECALL POWER

CHEN

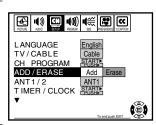
TOSHIBA

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

- Select the channel to erase using the CHANNEL ▲ or ▼ button, or select the channel to add with the Channel Number buttons.
  - See page 26 on how to select channels.
- Press MENU, then press ◀ or ▶ until the SET UP menu appears.



**3** Press ▼ (or ▲) until "ADD/ERASE" is highlighted.



4 Press ◀ or ▶.

#### To erase the channel

Press ◀ or ▶ to select "Erase". The channel will be erased from the memory.

#### To add the channel

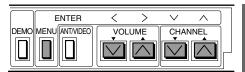
Press ◀ or ▶ to select "Add". The channel will be memorized.

Repeat steps 1 through 4 for other channels.

### Aligning the colors

- This projection TV uses three separate TV tubes: a red one, a green one, and a blue one. The red, green, and blue images are projected onto the screen where they converge to form a full color picture. You can see a clear picture only when they converge correctly.
- Convergence may drift over time or if you move the TV. If you can see clear images on the screen, skip this procedure.

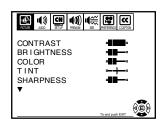
#### To align the colors



This adjustment should be made after the TV has been on for at least 30 minutes.

#### To check and align the colors

Press **MENU**, then press ◀ or ▶ until the PICTURE menu appears.

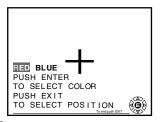


Press ▲ (or ▼ ) until "CONVERGENCE" is highlighted.



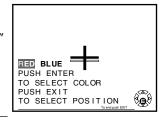
**3** Press **◄** or **▶** to display the center CONVERGENCE menu.

If alignment is correct, there will be one vertical and one horizontal white line.

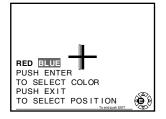


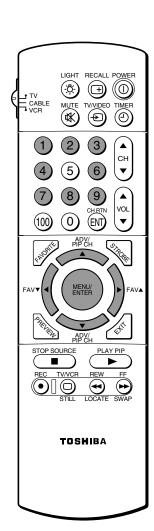
If you see separate colored lines, you have to align the colors.

Press **ENTER** to select "RED" or "BLUE." The selected color is highlighted.



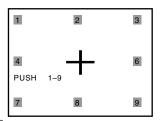
Press the "▲ (up)", "▼ (down)", " ◄ (left)" or "▶ (right)" button to converge the red or blue line into the green line. When color convergence is correctly adjusted, you will see two single white lines.





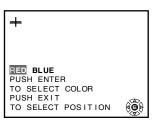
#### To align the colors (continued)

Press EXIT to display the circumference CONVERGENCE memu.

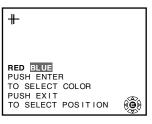


Press the corresponding **Number button** (1-9) to select the place you want to adjust.

Example: Number 1

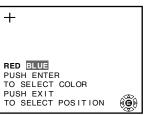


Press **ENTER** to select "RED" or "BLUE". The selected color is highlighted.



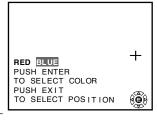
Press ▲, ▼, ◀, or ▶ to converge the red or blue line into the green line.

Repeat steps 8 and 9 until you see two single white lines.



Press **EXIT** once to select any other place you want to adjust, then repeat steps 7 through 9.

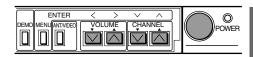
Example: Number 6

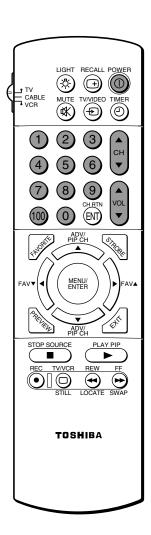


Press **EXIT** twice to close the CONVERGENCE menu.

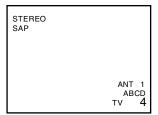
### **Watching TV Programs**

#### To watch a TV program





Press **POWER** on the Remote Control or the TV.



10

2 Select the desired program in one of the following two ways.

#### To scan the memorized channels in numerical sequence

Press **CHANNEL**  $\blacktriangle$  to select the next higher channel.

Press **CHANNEL** ▼ to select the

next lower channel.

Press the button again to select the next memorized channel.

#### To select a channel directly

Press the **Channel Number** buttons (0 – 9 and 100).

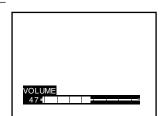
To select channel 4, press "4" (or press "0" and "4" in order).

To select channel 38, press "3" and "8" in order.

To select channel 125, press "100," "2," and "5" in order.

Adjust the sound volume with the **VOLUME** ▼ / ▲ on the Remote Control or the TV.

Press ▲ to increase the volume; ▼ to decrease the volume.



To turn off the TV, press **POWER** again.

#### If you cannot select certain channels (either TV broadcast or CABLE channels)

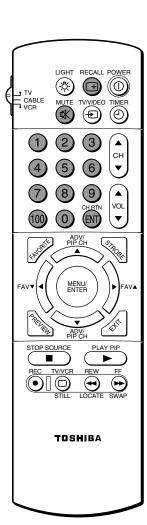
Check to see if the TV/CABLE function is properly set. See page 22.

#### Notes:

- The CHANNEL ▼/▲ on the TV function as the menu Y/^ buttons while a menu is on the screen.
- The VOLUME ▼/▲ on the TV function as the menu </>
   </>
   buttons
   while a menu is on the screen.

## Convenient Remote Functions

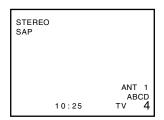
#### To use On-screen displays/Sound muting/Channel return



#### To display on-screen information

Press **RECALL** to display the following onscreen information.

- Antenna input (when in TV mode)
- Channel label (if previously preset)
- Channel number or VIDEO mode selected
- Time (if the clock has been set)
- STEREO or SAP audio status



#### To mute the sound

Press **MUTE** to mute the sound immediately without affecting the picture.



**7** To restore the sound, press **MUTE** again.

#### Note:

When the **MUTE** button is pressed, the Closed Captioned feature "C1" is activated. To deactivate it, press the **MUTE** button again. This feature only functions when the Closed Caption mode is set to "Off." ( See page 48.)

#### To return to the previously viewed channel

Using this function, you can watch two channels alternately.

- Select the first channel you want to watch.
- 2 Select the other channel with the Channel Number buttons.
- (Current channel)

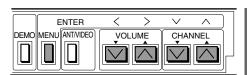
Press CH RTN.

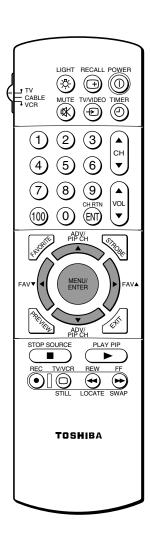
The previous channel returns.

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

### **Controlling the Picture**

#### To adjust the picture

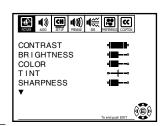




#### To adjust the picture quality

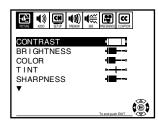
You can adjust the picture quality (CONTRAST, BRIGHTNESS, COLOR, TINT, and SHARPNESS) to suit your personal preference.

Press **MENU**, then press ◀ or ▶ until the PICTURE menu appears.

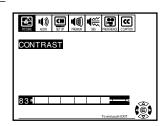


Press ▼ (or ▲) until the item you want to adjust is highlighted.

**Example:** CONTRAST adjustment mode display



**?** Press **◄** or **▶** to adjust the level.



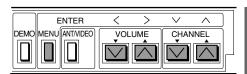
ltono	Pressing		
Item		<b>•</b>	
CONTRAST	lower	higher	
BRIGHTNESS	darker	lighter	
COLOR	weaker	stronger	
TINT	reddish	greenish	
SHARPNESS	softer	sharper	

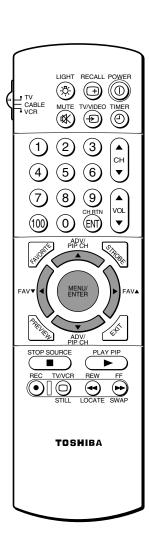
When you adjust any of the five PICTURE items, the new setting will be stored in the "MEMORY." (See page 29.)

#### Note:

You can reset the PICTURE setting to the factory preset status by using the RESET function. (See page 30.) When you turn on the RESET function, the TV will return to the NORMAL mode. (The settings you have adjusted remain in the MEMORY mode.)

#### To adjust the picture (continued)

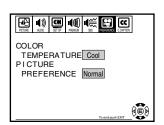




#### To select the color temperature

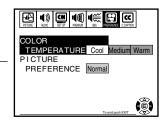
These selections change the appearance of gray and white tones of the picture.

Press **MENU**, then press **◄** or **▶** until the PREFERENCE menu appears.



- Press ▲ or ▼ until "COLOR TEMPERATURE" is highlighted.
- Press or to select the temperature you want.

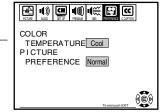
Cool: Bluish Medium: Neutral Warm: Redish



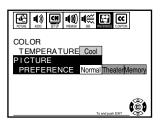
#### To select the picture preference

You can select the type of picture you want from three preset picture modes (Normal, Theater, and Memory).

- Select the PREFERENCE menu.
- Press ▲ or ▼ until "PICTURE PREFERENCE" is highlighted.



Press ◀ or ▶ to select the mode you want.

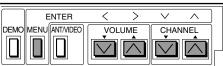


Mode	Picture quality	
Normal	the picture quality preset at the factory	
Theater	movie-like picture setting	
Memory	the picture quality you set (See page 28.)	

## Controlling the Sound

• You can adjust the sound quality (BASS, TREBLE and BALANCE) to suit your personal preference.

#### To adjust the sound



LIGHT RECALL POWER

(6)

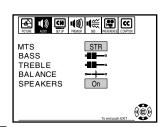
TOSHIBA

 $(\mathbb{O})$ 

(D)

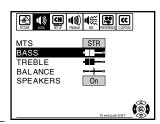
▼

Press **MENU**, then press **◄** or **▶** until the AUDIO menu appears.



Press ▼ (or ▲) until the item you want to adjust is highlighted.

Example: Adjusting "BASS."



Press ◀ or ▶ to adjust the level.



ltono	Pressing		
Item		<b>&gt;</b>	
BASS	weaker	stronger	
TREBLE	weaker	stronger	
BALANCE	decreases the right channel	decreases the left channel	

#### **RESET function**

To reset the PICTURE and AUDIO adjustments to the factory preset level (maximum CONTRAST and all other adjustments centered) Select RESET in the SET UP menu with ▲ or ▼, then press ◄ or ▶. (See page 18.)

The RESET function also performs the following adjustments.

- COLOR TEMPERATURE ...... Cool • PICTURE PREFERENCE ...... Normal
- NOISE REDUCTION ...... Off

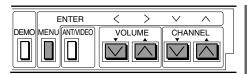


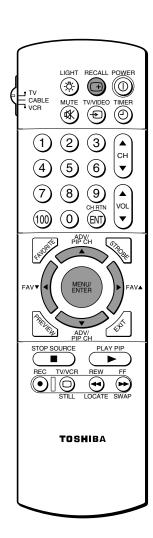


## Selecting Stereo and SAP Broadcasts

• The MTS (Multi-channel TV Sound) feature allows you to improve your TV viewing with high fidelity stereo sound. MTS also provides for an extra audio channel, SAP (Second Audio Program), used to transmit a second language or other audio information.

#### To listen to Stereo/SAP broadcasts





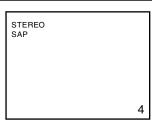
#### If the stereo sound is noisy

If a broadcast signal is not strong enough, and noise-free stereo sound is not available, select "MONO" in the MTS menu.

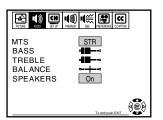
The noise should be reduced.

#### To listen to stereo sound

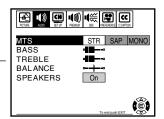
When the TV receives a stereo broadcast, the word "STEREO" (or "SAP") is displayed on the screen. It is also displayed whenever the TV is turned on, a channel is selected, or the **RECALL** button is pressed.



Press **MENU**, then press ◀ or ▶ until the AUDIO menu appears.



Press ▼ (or ▲) until "MTS" is highlighted.



Press ◀ or ▶ to select "STR."

If a stereo broadcast is received, "STR"

will be displayed in yellow.

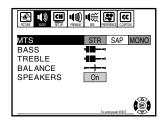
Normally this function can be left in the stereo mode ("STR"). Your TV will then automatically reproduce either stereo or monaural sound, whichever is broadcast.

#### To listen to a second language

Follow steps 1 and 2 above.

Press ✓ or ► to select "SAP."

You will hear only the second language from the left and right speakers.



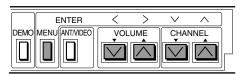
#### Notes:

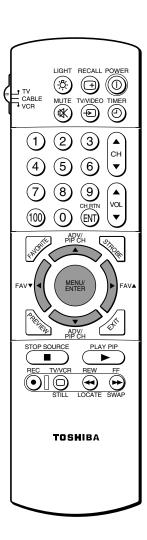
- Be sure to select the "STR" mode if the broadcast is in stereo.
- The MTS function is not available while in VIDEO mode.

## **Enhancing the Surround Sound Effect**

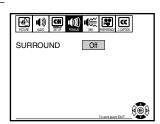
This TV allows you to activate or deactivate the stereo surround effect.

#### To activate the Surround sound function

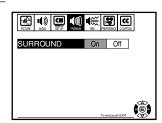




- Select the "STR" (stereo) mode following steps 1 through 3 on the previous page.
- Press MENU, then press or ▶ until the PREMIUM menu appears.



Press ▲ or ▼ to select "SURROUND."



4 Press ✓ or ► to highlight "On."



#### To deactivate the Surround sound function

Select "Off" in step 4 above.

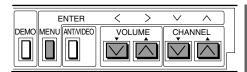
#### Note:

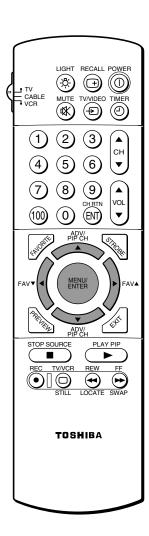
Normally you can leave the MTS function set to "STR" and the SURROUND sound function set to "On". The TV will automatically produce either Surround, stereo or monaural, whichever is broadcast.

## Operating the Sub-Bass System

• The Sub-Bass System allows you to improve bass performance (even when the sound volume is low).

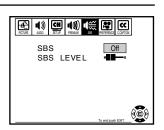
#### To operate the Sub-Bass System





#### To activate the Sub-Bass System

Press **MENU**, then press ◀ or ▶ until the SBS menu appears.



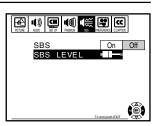
**2** Press ▲ or ▼ until "SBS" is highlighted.



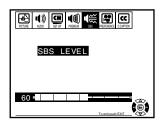
Press or ▶ to select "On."

#### To adjust the SBS level

Select "SBS LEVEL" in the SBS menu.



**1** Press **◄** or **▶** to adjust the SBS level.



To deactivate the Sub-Bass System function Select "Off" in step 3 above.

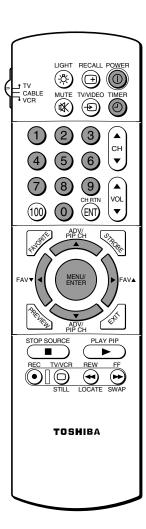
#### Note:

The Sub-Bass System signal does not pass through the "VARIABLE AUDIO OUTPUT" jacks. (See page 58.) However, the above on-screen displays will appear when the buttons are pressed.

## Setting the OFF Timer and the Clock

• With the OFF timer, you can set the TV to turn off automatically after a pre-determined period of time (in 10 minute increments, up to 180 minutes).

#### To set the OFF timer



Press **TIMER** to select the TIMER mode. The first digit will flash.

OFF TIMER

Press any two Number buttons to enter the length of time you want the TV to stay on.

The remaining number(s) to be adjusted will flash continuously.

OFF TIMER

Example: 120 minutes
Press 1, then 2.

OFF TIMER

Press TIMER again to start the timer. The display color will change from purple to blue, then the display will disappear.

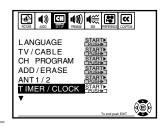
OFF TIMER

120

TO SET OFF TIME
PUSH 0-9
TO START
PUSH TIMER

You can also set the OFF timer using the on-screen menu.

Select the SETUP menu, then press ▼ (or ▲) until "TIMER/CLOCK" is highlighted.



Press ◀ or ▶ until the TIMER mode is displayed. Then press two Number buttons to enter the length of time you want the TV to stay on.

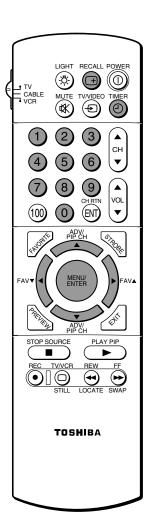
Example: 30 minutes Press 0, then 3. | Timer / Clock | OFF TIMER | O30

**?** Press **ENTER** to start the timer.

To cancel the OFF timer

Press **POWER** twice, once to turn the TV off and once to turn it on again.

#### To set the clock



To monitor the time Press RECALL.

#### Note:

If the power source for the TV is interrupted (i.e., AC cord unplugged or power failure), the clock will have to be reset. (The time display will show "00:00.")

Press **TIMER** twice to select the CLOCK mode.
The first digit will flash.

CLOCK 00:00

Press four **Number buttons** to enter the correct time.

The remaining number(s) to be adjusted will flash continuously.

**Example**: To set 9:25 a.m. Press 0, 9, 2 and 5.

• The clock operates on a 12 hour-cycle.

CLOCK 09:00 CLOCK 09:20 CLOCK 09:25

Press **TIMER** to start the clock.
The display color will change from purple to blue, then the display will disappear.

CLOCK
09:25

TO SET HOUR AND MINUTE
PUSH 0-9
TO START
PUSH TIMER

You can also set the clock using the on-screen menu.

Select the SETUP menu, then press
▼ (or ▲) until "TIMER/CLOCK" is highlighted.



Press ✓ or ► until the CLOCK mode is displayed. Then press four Number buttons to enter the correct time.

**Example**: To set 12:06 p.m. Press 1, 2, 0, and 6.



**?** Press **ENTER** to start the clock.

## **Watching Picture-in-Picture**

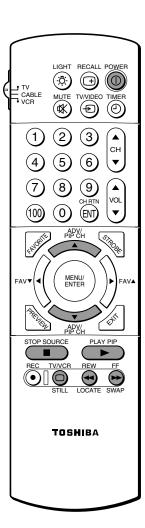
• This TV is capable of displaying two pictures simultaneously. This is called the Picture-in-Picture function. A TV broadcast picture, or a picture from an external source such as a VCR, can be displayed as a small picture.

#### To display a small picture

#### Note:

Signal sources input through the ANT-2 and COLOR STREAM terminals cannot be displayed as a small picture.

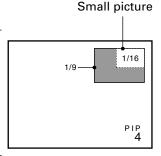
Also, when the main picture source is "COLOR STREAM", PIP is not available.



#### To display a TV broadcast picture as a small picture

Turn on the TV and select the desired program.

Press **PIP** once to display a small picture. The 1/9 size window picture will appear. If you press **PIP** again, the 1/16 size window picture will appear.



Press PIP CH ▲ or ▼ to select the desired program for the small picture.

To turn off the small picture, press **PIP** again.

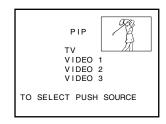
#### To display a picture from an external source as a small picture

Connect the external source equipment for the small picture. (For connections, see pages 53 – 57.)

Turn on the TV, and select the desired program.

**2** Press **PIP** to display a small picture.

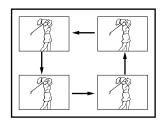
Press **SOURCE** repeatedly to select the input source (TV, VIDEO 1, VIDEO 2, or VIDEO 3) for the small picture.
The selected mode will be displayed in purple.



#### To use advanced functions

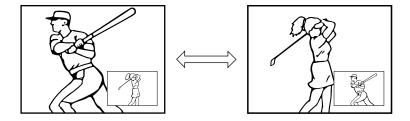
#### To change the position of the small picture

Press **LOCATE** repeatedly while the small picture is displayed. The display position of the small picture will change in order.



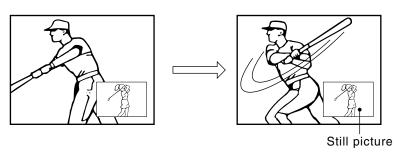
#### To switch the main and small pictures

Press **SWAP** while the small picture is displayed. The main and small pictures will switch. To switch them again, press **SWAP** again.



#### To freeze the small picture

Press **STILL** while the small picture is displayed. The small picture will become a still picture. To return it to a moving picture, press **STILL** again.



#### **CAUTION:**

Avoid displaying stationary images on your TV screen for an extended period of time. Stationary patterns generated by the PIP display,Multi-Window display, computer displays, videogames, stock market reports etc. can become permanently ingrained on the picture tube. This damage is not protected by your warranty as it is the result of misuse. If you use your TOSHIBA Television to display still images, it is always advisable to reduce the brightness and contrast settings. Never leave a PIP display, Multi-Window display, computer display or videogame unattended.

# ADVANCED OPERATION

## **Multi-Window Function**

- The Multi-Window function provides two channel search modes. One is the "PREVIEW" that scans the channels programmed in the TV memory by the CH PROGRAM function(6-picture multisearch), and the other is the "FAVORITE" that scans the channels programmed in the TV memory by the FAVORITE CH function(9-picture multi-search).
- The STROBE function is convenient when watching a scene at an instant of quickly moving picture such as a sport program.

#### To use the PREVIEW/FAVORITE/STROBE functions

#### Notes:

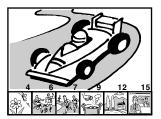
- When the main picture source is "COLOR STREAM", the PREVIEW, FAVORITE and STROBE buttons are not available.
- The FAVORITE button activates only after you have programmed your favorite channels. See page 44 for details.

# LIGHT RECALL POWER CABLE CABLE MUTE TV/VIDEO TIMER CH CH CH TOSHIBA

#### To use PREVIEW function

Press **PREVIEW** to scan the channels of "ANT-1" programmed in the TV memory by the CH PROGRAM function.

The 6-picture multi-search will start.



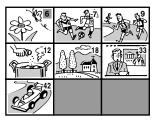
**To cancel the PREVIEW function** Press **PREVIEW** again.

#### To use FAVORITE function

Press **FAVORITE** to scan the channels programmed in the TV memory by the FAVORITE CH1 function.

The 9-picture multi-search will start. The first window will be displayed with a moving picture.

Each time you press **FAVORITE**, the display will change in the following order.



Press ▲/▼/◀/▶ to select a channel you want to see with a moving picture.

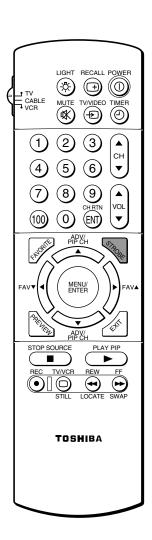


Press **ENTER** to display your desired channel you have selected at step 2 with a normal picture.



**To cancel the FAVORITE function** Press **FAVORITE** again.

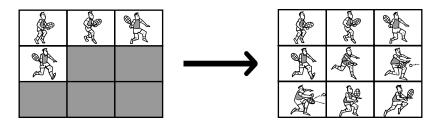
#### To use the PREVIEW/FAVORITE/STROBE functions (continued)



#### To use the STROBE function

Press **STROBE** to start the STROBE function.

9-picture multi-strobe starts for the present main picture.



For example, you can watch a decisive moment of a sport program that has been recorded previously.

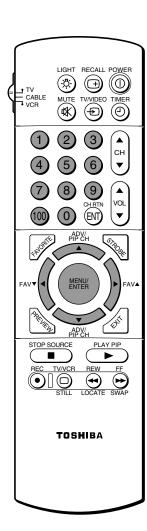
**To cancel the STROBE function** Press **STROBE** again.

## **Locking Channels**

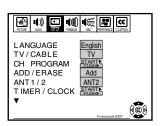
With this function, you can lock out specific channels by entering your own 4-digit code.
 The TV will not be able to tune to those channels for the next 24 hours, unless you enter the code.

This TV has 8 memory spaces total — 4 for TV mode and 4 for CABLE mode.

#### To lock out channels



Press **MENU**, then press ◀ or ▶ until the SET UP menu appears.

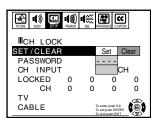


Press ▲ (or ▼) until "CH LOCK" is highlighted.



Press or ► to display the CH LOCK menu.

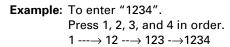
"SET/CLEAR" will be highlighted.
Press ◀ or ▶ to select "Set."

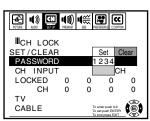


Press ▼ until "PASSWORD" is highlighted.

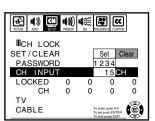


Press the **Number buttons** (0-9) to enter a 4-digit code. The numbers you enter will replace the dashes in the display. **Pick a number that is easy to remember.** 





Press ▼ until "CH INPUT" is highlighted, then press the Number buttons (0-9, 100) to enter the channel number.

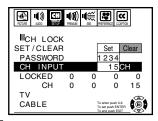


#### Note:

If a different code number is used to lock out a channel, the last one has priority over the preceding ones.

#### To lock out channels (continued)

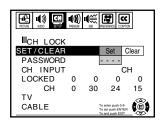
7 Press ENTER.



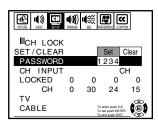
Repeat steps 6 and 7 for other channels.

#### To unlock channels

Select CH LOCK in the SET UP menu, then press ◀ or ▶ to select "Clear."



Press ▼ until "PASSWORD" is highlighted, and enter the 4-digit code used to lock out the channels with the Number buttons (0-9).



Press ENTER.



#### If a wrong code has been entered

These messages appear. Try to enter the correct code again.

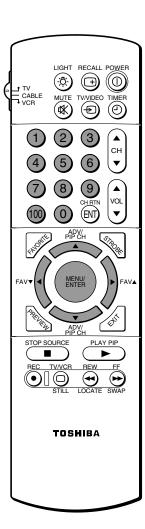


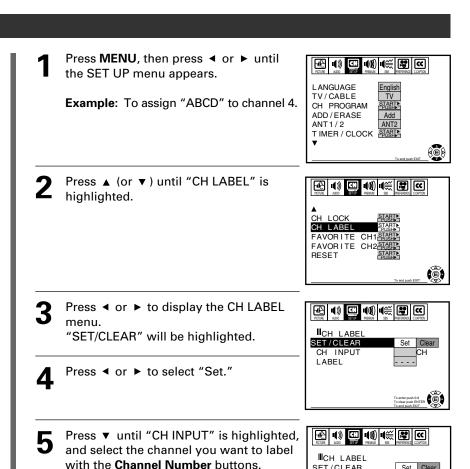
If you want to know the channels you have locked out Call up the CH LOCK menu.

## **Labeling Channels**

- This feature allows you to enter a 4 letter channel identifier of your choice that will appear over the channel number display. The label can be anything you want (for example the station call letters).
- The label you set will appear when you turn the TV on, select a channel, or press the RECALL button.

#### To program channel labels





6

Press ▼ until "LABEL" is highlighted.



СН

CH INPUT

#### To program channel labels (continued)

Press ◀ or ▶ to select the first character for the label, then press **ENTER**.

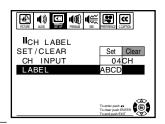
Letters of the alphabet, numbers and other graphic symbols are available for labeling.

Each time you press the ◀ or ▶ button, the displayed character will change in the following order.



▶ button  $\rightarrow - \rightarrow 0 -- \rightarrow 9 \rightarrow A -- \rightarrow Z \rightarrow [ ] \rightarrow +-$ ◆ button  $\rightarrow - \rightarrow + \rightarrow [ ] \rightarrow Z -- \rightarrow A \rightarrow 9 -- \rightarrow 0 --$ 

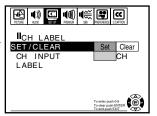
Repeat step 7 to enter the second, third and fourth characters.



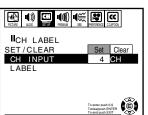
9 To label another channel, repeat steps 5 through 8. You can label 32 channels.

#### To clear the channel label

- Select CH LABEL in the SET UP menu.
- **1** Press **◄** or **▶** to select "Clear."



Press ▼ until "CH INPUT" is highlighted, then select the channel you want to clear with the **Channel Number** buttons.

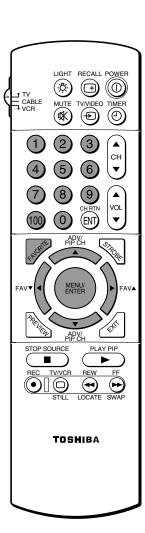


- Press ENTER.
- Repeat steps 3 and 4 for other channels.

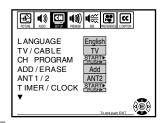
## Programming Your Favorite Channels

• The Favorite Channel Programming feature allows you to program up to 9 of your favorite channels each for "FAVORITE CH 1" and "FAVORITE CH 2" mode. Program your favorite channels for these modes separately.

#### To program your favorite channels



Press **MENU**, then press ◀ or ▶ until the SET UP menu appears.

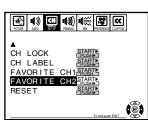


Press ▲ (or ▼) until "FAVORITE CH1" or "FAVORITE CH2" is highlighted.

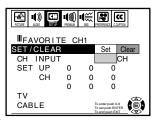
**FAVORITE CH1** 



**FAVORITE CH2** 

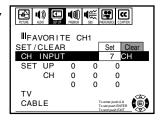


Press ◀ or ► to display the FAVORITE CH1 menu for example.
"SET/CLEAR" will be highlighted.



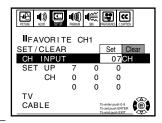
Press ◀ or ▶ to select "Set."

Press ▼ until "CH INPUT" is highlighted, then press the **Channel Number** buttons to enter the channel number.



#### To program your favorite channels (continued)

Press ENTER.



#### Note:

The **FAV** ▼ / ▲ and **FAVORITE** buttons will activate only after you have programmed your favorite channels.

**7** Repeat steps 5 and 6 for other channels.

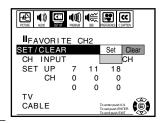
To scan your favorite channels in order one by one Press FAV ▼ / ▲.

To scan your favorite channels with a 9-picture multi-window Press FAVORITE. (See page 38 for details.)

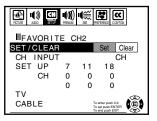
#### To clear the channels you have programmed

Select "FAVORITE CH1" or "FAVORITE CH2" in the SET UP menu.

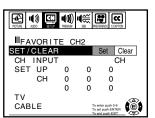
**Example:** FAVORITE CH2



**?** Press **◄** or **▶** to select "Clear."

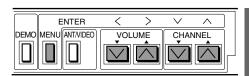


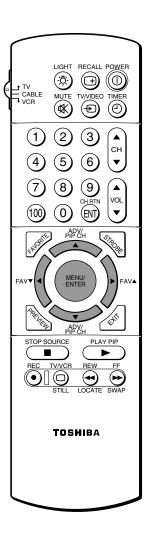
Press ENTER.
All the favorite channels you have programmed are cleared.



## Flesh Tone/Noise Reduction

#### To activate the Flesh Tone and Noise Reduction Functions

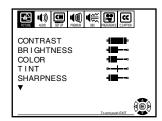




#### Flesh Tone Function

This function allows you to obtain natural flesh tones by correcting the difference of tint between TV stations.

Press **MENU**, then press ◀ or ▶ until the PICTURE menu appears.



**2** Press ▲ (or ▼) until "FLESH TONE" is highlighted.



**3** Press **◄** or **▶** to select "On."

#### **Noise Reduction Function**

This function allows you to reduce visible interference in your TV picture. This is useful when receiving a broadcast with a weak signal or playing back a video cassette or disc damaged by repeated use.

Press **MENU**, then press ◀ or ▶ until the PICTURE menu appears.



Press ▲ (or ▼) until "NOISE REDUCTION" is highlighted.

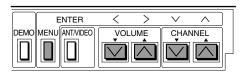


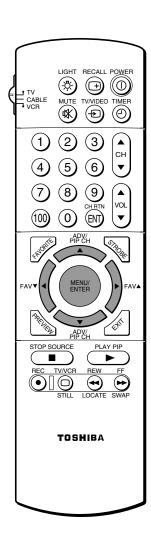
Press ◀ or ▶ to select "On."

To deactivate these functions Select "Off" in step 3 above.

## **Displaying XDS Information**

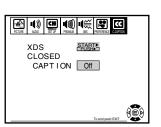
#### To display XDS information



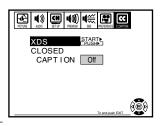


To close the XDS display Press **EXIT.** 

- Select the desired program.
- Press MENU, then press ◀ or ▶ until the CLOSED CAPTION menu appears.



Press ▲ or ▼ until "XDS" is highlighted.



XDS ON

- Press ◀ or ▶ to display the following XDS (eXtended Data Service) information for about 30 seconds.
  - Network name (1)
  - Call letters 2
  - Program name 3
  - Program type 4
  - Program length (5)
  - Elapsed time in show 6
  - Program description 7

Some of the above information may not be displayed.

3

**(5)** 

(4)

### If the TV program you are watching does not include XDS information

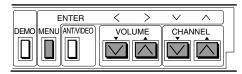
Only "XDS ON" will be displayed for about 4 seconds when you select the XDS mode.

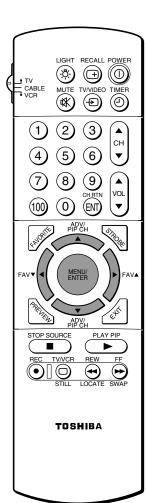


# Operating the Closed Captioning Feature

#### To display Closed Captioning



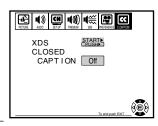




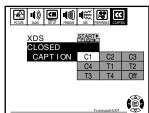
#### To view captions

Closed captioning is a printed version of the dialogue, narration, and/or sound effects of a TV program. Captions will appear at either the top or bottom of the screen during captioned broadcasts as shown. Captioning is especially helpful for hearing impaired individuals.

- Select the desired program.
- Press MENU, then press ◀ or ▶ until the CLOSED CAPTION menu appears.



**3** Press ▲ or ▼ until "CLOSED CAPTION" is highlighted.



Press ◀ or ▶ to select the caption you want — C1 (Caption 1), C2 (Caption 2), C3 (Caption 3), or C4 (Caption 4).

Select "C1" for a transcription of the primary language in your area.

#### To deactivate this function

Select "Off" in step 4 above.

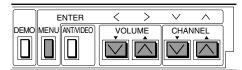
#### Note:

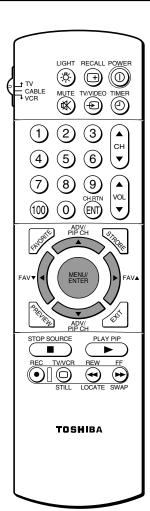
A closed-captioned signal may not be decoded in the following situations.

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

#### To display text information





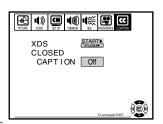


#### To view text

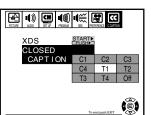
Text is information presented using all of the television screen. It is usually not related to the current program.

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

- Select the desired program.
- Press MENU, then press ◀ or ▶ until the CLOSED CAPTION menu appears.



Press ▲ or ▼ until "CLOSED CAPTION" is highlighted.



Press ◀ or ► to select the text you want T1 (Text 1), T2 (Text 2), T3 (Text 3), or T4 (Text 4).

#### To deactivate this function

Select "Off" in step 4 above.

#### Note:

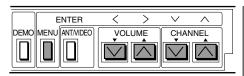
When you select a caption format channel and the Text mode, the Text screen will always be displayed.

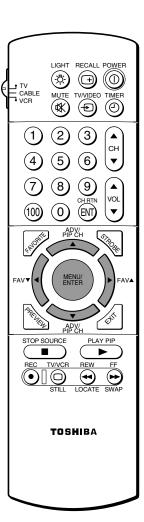
However, if Text character signals are not transmitted, the characters will not be displayed.

# Changing the On-screen Display Language

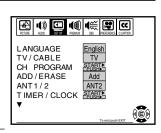
• You can choose from three different languages (English, French and Spanish) for the on-screen displays (adjustment menus and messages).

#### To select a language for the on-screen displays

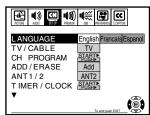




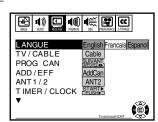
Press **MENU**, then press ◀ or ▶ until the SET UP menu appears.



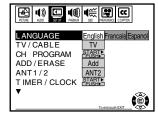
**2** Press ▲ (or ▼ ) until "LANGUAGE" is highlighted.



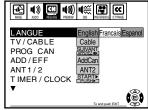
**3** Press ◀ or ▶ to select the language you want.



"English"



"French"

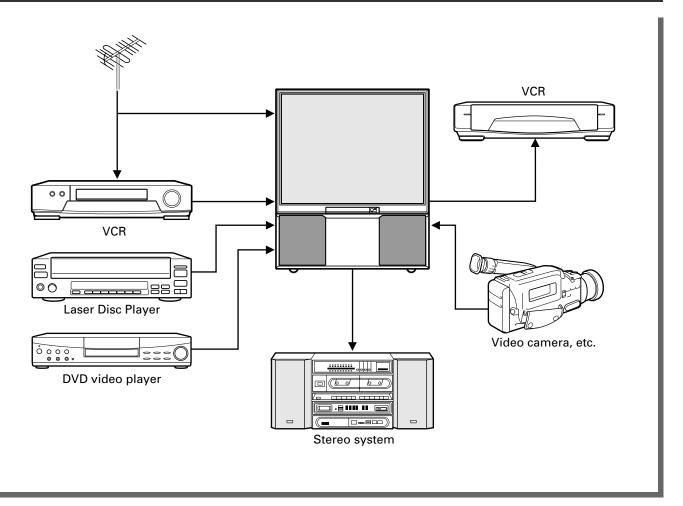


"Spanish"



# Connecting External Equipment

#### To connect video/audio equipment

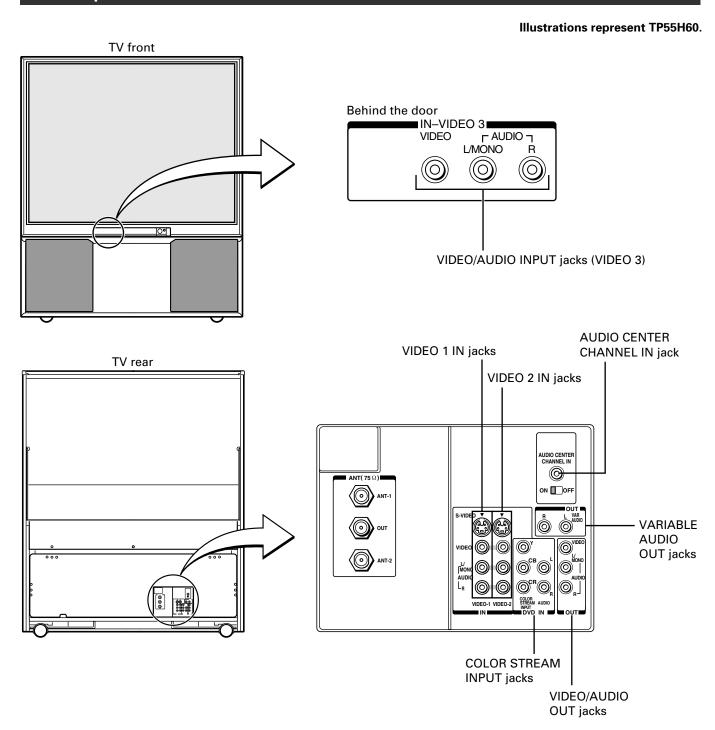


#### Notes:

- Refer also to the owner's manual of the equipment to be connected.
- When connecting other equipment to the TV, first turn off all main power switches.

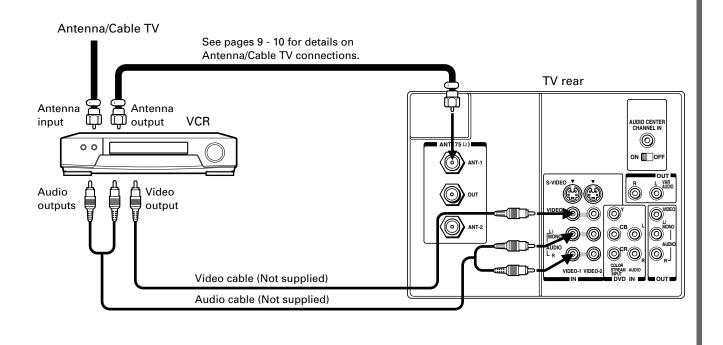
# Connecting External Equipment (continued)

#### **Monitor panel**



#### To connect a standard VCR

Connect the VIDEO 1 or VIDEO 2 IN jacks on the rear panel of the TV to the video/audio output jacks of the VCR, Laser Disc Player, etc. for playback of video recordings.



#### To select the video input source

Press **TV/VIDEO** on the Remote Control (or **ANT/VIDEO** on the TV) repeatedly to select the appropriate source. Each time you press the button, the TV, VIDEO 1, VIDEO 2, VIDEO 3, or COLOR STREAM source will be selected in order.

Select "VIDEO 1" in this example.

The selected source will be displayed in purple.



#### Note on the VIDEO 2 IN jacks

The VIDEO 2 IN jacks can also be used for connecting a second piece of video equipment with video/audio outputs.

To view signals from equipment connected to the VIDEO 2 IN jacks, select "VIDEO 2."

#### Note on the VIDEO 3 INPUT jacks

The VIDEO 3 INPUT jacks on the TV front panel are convenient for connecting portable video/audio equipment.

To view signals from equipment connected to the VIDEO 3 INPUT jacks, select "VIDEO 3."

#### Note:

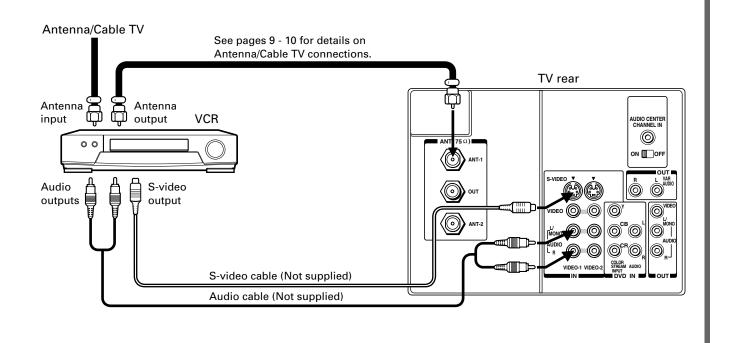
If you connect a monaural VCR, connect the audio output of the VCR to the L/MONO jack.

#### **CHAPTER 5 CONNECTING OTHER EQUIPMENT-**

# Connecting External Equipment (continued)

#### To connect a VCR with an S-video jack

If you connect a VCR with an S-video jack to the "S-VIDEO" jack on the back of the TV, you must also connect the audio cables to the "VIDEO 1 IN" AUDIO jacks. The S-video cable supplies video signals only.



#### To select the video input source

Turn on the TV and the VCR.

Press TV/VIDEO on the Remote Control (or ANT/VIDEO on the TV) to select "VIDEO 1" in this example.



#### Notes on the VIDEO 2 IN jacks

The VIDEO 2 IN jacks can also be used for connecting a second piece of video equipment with S-video out. To view signals from equipment connected to the VIDEO 2 IN jacks, select "VIDEO 2".

#### Notes:

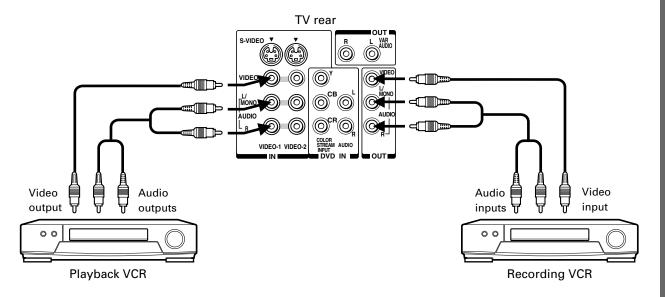
- When the S-video cable is connected to the S-VIDEO IN jack, the video cable (phono-type) should not be connected.
- The S-VIDEO jack accepts SEPARATED Luminance/ Chrominance (Y/C) signals conforming to the NTSC standard.

Operate your VCR normally.

#### To dub/edit video tapes using two VCRs

#### To connect equipment for dubbing/editing

- Connect the output jacks of the playback VCR to the input jacks (VIDEO 1, VIDEO 2 or VIDEO 3) on the TV.
- Connect the output jacks (VIDEO/AUDIO OUT) on the TV to the input jacks of the recording VCR.



#### Note:

Do not connect one VCR to the output and input jacks on the TV at the same time.

#### To monitor dubbing/editing

- Turn on the TV and both VCRs.
- Press TV/VIDEO on the Remote Control (or ANT/ VIDEO on the TV) to select the input source of the playback VCR.
- 3 Set the recording VCR to record mode and the playback VCR to play.
- You can view the video signal from the playback VCR on the TV screen while dubbing it onto the recording VCR.

#### **CAUTION:**

The unauthorized recording of television programs, video tapes and other materials may infringe upon the provisions of the copyright laws.

#### Notes:

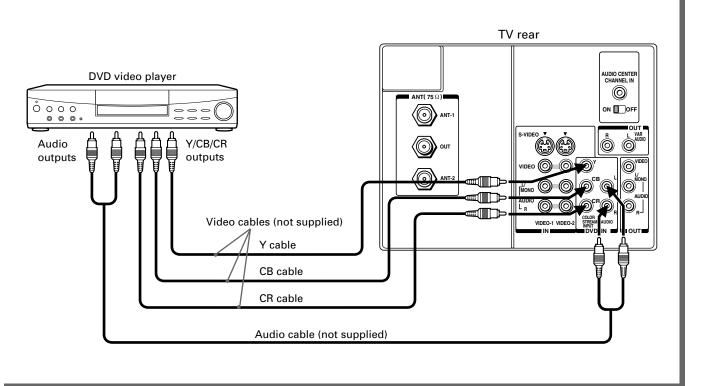
- The input switch of the VCR is normally in the TV position. Change the switch of the recording VCR to the LINE or CAMERA position when using the video/ audio inputs of the VCR as above. Some VCRs automatically switch when cables are plugged into the video/audio inputs.
- The PIP picture cannot be output through the VIDEO OUTPUT.

#### **CHAPTER 5 CONNECTING OTHER EQUIPMENT –**

## Connecting External Equipment (continued)

#### To connect a DVD video player with ColorStream™ (Color Difference) VIDEO OUTPUT

This connection allows you to view pictures from a DVD video player, an advanced video/audio device.



#### To select the video input source

- Turn on the TV and the DVD video player.
- Press TV/VIDEO on the Remote Control (or ANT/VIDEO on the TV) to select "COLOR STREAM".



#### Note:

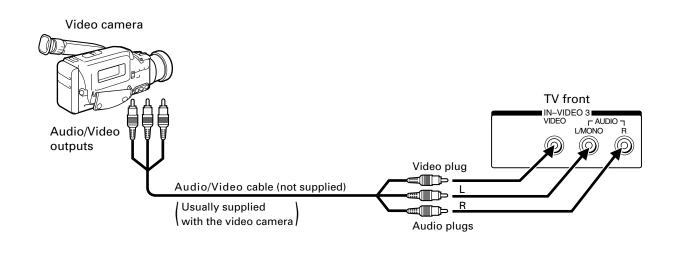
While the PIP or Multi-Window is on the screen, "COLOR STREAM" will be skipped.

When the Color Stream input is selected, the VIDEO OUT signal will not have color. To receive a color VIDEO OUT signal, A VIDEO or S-VIDEO input must be used instead of the Color Stream connection.

**Q** Operate your DVD video player normally.

#### To connect a video camera

This connection allows you to view pictures from a video camera. Connect the audio/video cable to the IN-VIDEO 3 jacks.



#### To select the video input source

To operate your video camera properly, see the instructions supplied with the connected video camera.

- Turn on the TV and the video camera.
- Press TV/VIDEO on the Remote Control (or ANT/VIDEO on the TV) to select "VIDEO 3."

TV
VIDEO 1
VIDEO 2
VIDEO 3
COLOR STREAM
TO SELECT PUSH TV/VIDEO

#### Notes:

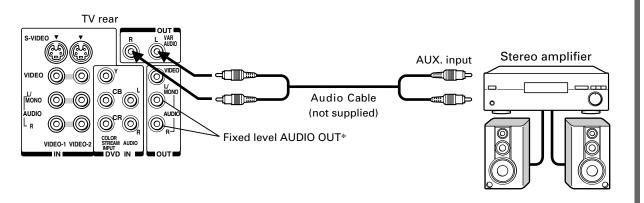
- If you connect a monaural video camera, connect the audio output to the L/MONO jack.
- If you have a video camera with an S-video jack, the VIDEO 1 or VIDEO 2 IN jacks at the rear of the TV can also be used.

Operate your video camera normally.

## Connecting External Equipment (continued)

#### To connect an audio amplifier

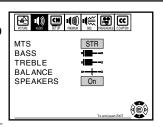
Connect the VARIABLE AUDIO OUT jacks to the auxiliary input jacks on the stereo amplifier. You can control the audio signal going to the audio equipment using the Remote Control for this TV.



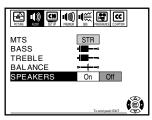
\* The "fixed level" AUDIO OUT jacks are also available for connecting to an audio cassette recorder (or amplifier) to record audio from the TV. This constant audio signal is not affected by pressing the VOLUME buttons on the TV or the TV's Remote Control.

#### To turn off the built-in speakers

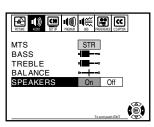
Press **MENU**, then press ✓ or ➤ until the AUDIO menu appears.



Press ▲ or ▼ until "SPEAKERS" is highlighted.



**3** Press ◀ or ▶ to select "Off."



#### To turn on the built-in speakers Select "On" in step 3.

#### Note:

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

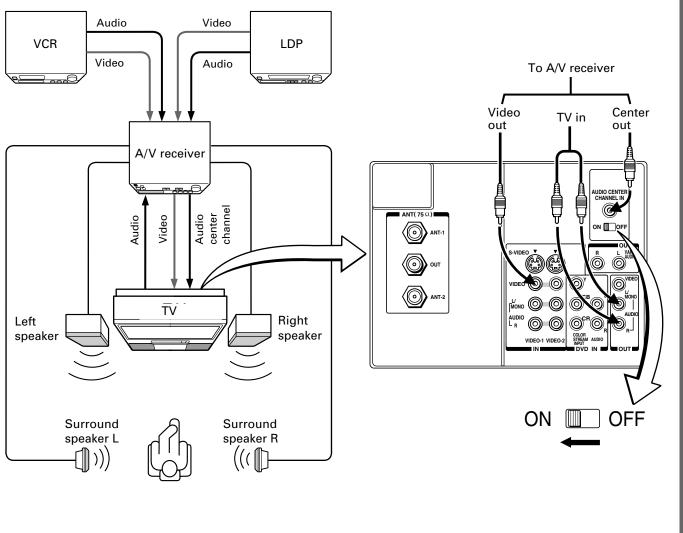
• If you use a system that delivers Dolby Pro Logic\* surround sound, you will probably want to use the TV speakers as center channel speakers.

A center channel speaker adds to the realism of a surround sound system such as Dolby Pro Logic.

#### To connect an A/V receiver

#### **CAUTION**

Make sure the TV is turned off before connecting or disconnecting an audio cable to the AUDIO CENTER CHANNEL IN jack.



#### Notes:

- Refer to the instructions furnished with the connected equipment.
- When the AUDIO CENTER CHANNEL ON/OFF switch is in the "ON" position, the TV speakers will function only as the center channel speakers.
- Adjust the volume for center channel speakers with the center level control on the A/V receiver.
- If you use the TV speakers as normal speakers, set the AUDIO CENTER CHANNEL ON/OFF switch to the "OFF" position.
- \* "Dolby Pro Logic" is a trademark of Dolby Laboratories Licensing Corporation.

# **ADDITIONAL REFERENC**

#### CHAPTER 6 ADDITIONAL REFERENCE —

## **Specifications**

TELEVISION SYSTEM NTSC standard

CHANNEL COVERAGE 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)

POWER SOURCE 120 V AC, 60 Hz

POWER CONSUMPTION TP50H60: 178 W

TP55H60: 180 W TP61H60: 180 W

AUDIO POWER 14 W + 14 W

SPEAKER TYPE Two 6-1/4 inches (16 cm) round

VIDEO/AUDIO TERMINALS S-VIDEO INPUT (VIDEO 1/VIDEO 2)

Y-INPUT: 1 V(p-p), 75 ohm, negative sync. C-INPUT: 0.286 V(p-p) (burst signal), 75 ohm

VIDEO 1/VIDEO 2/VIDEO 3 INPUT

VIDEO: 1 V(p-p), 75 ohm, negative sync.

AUDIO: 150 mV(rms) (30% modulation equivalent, 47 kohm)

ColorStream™ (Color Difference) VIDEO/AUDIO INPUT

Y-INPUT: 1V(p-p), 75 ohm Cr-INPUT: 0.7 V(p-p), 75 ohm Cb-INPUT: 0.7 V(p-p), 75 ohm AUDIO: 150 mV(rms), 47 kohm

VIDEO/AUDIO OUTPUT

VIDEO: 1 V(p-p), 75 ohm, negative sync.

AUDIO: 150 mV(rms) (30% modulation equivalent, 4.7 kohm)

VARIABLE AUDIO OUTPUT

0-350 mV(rms) (30% modulation equivalent, 4.7 kohm)

AUDIO CENTER CHANNEL INPUT

1 V(rms) (30% modulation equivalent, 10 kohm)

**DIMENSIONS/MASS** 

	Dimension (W/H/D)	Mass
TP50H60	42-3/4 × 50-1/4 × 20-13/16 inches (1,086 × 1,276 × 529 mm)	217 lbs (98.4 kg)
TP55H60	46-3/4 × 53-9/16 × 22-7/16 inches (1,188 × 1,360 × 570 mm)	250 lbs (113 kg)
TP61H60	51-9/16 × 57-3/16 × 25-1/4 inches (1,310 × 1,452 × 641 mm)	288 lbs (131 kg)

SUPPLIED ACCESSORIES

Remote Control with 2 size "AA" alkaline batteries

Design and specifications are subject to change without notice.

## **Before Calling Service Personnel**

• Before calling service personnel, please check the following chart for the possible cause of the problem you are experiencing.

Symptom	Solutions	Pages
The TV does not turn on.	<ul> <li>Make sure power cord is plugged in, then press POWER.</li> <li>Check the batteries in the Remote Control. If the batteries are dead, replace them with new ones.</li> </ul>	20 13
No picture, no sound	Check the antenna/cable connections.	7
No sound, picture OK	<ul> <li>Maybe the sound is muted. Press VOLUME ▲.</li> <li>Maybe there is station trouble. Try another channel.</li> <li>Check that the SPEAKERS function in AUDIO menu is properly set.</li> </ul>	26 58
Poor sound, picture OK	Maybe there is station trouble or local interference from an appliance. Try another channel.	
Poor picture, sound OK	<ul> <li>Check the antenna/cable connections.</li> <li>Maybe there is station trouble or local interference. Try another channel. Adjust the picture quality.</li> </ul>	28
Poor reception of broadcast channels	<ul> <li>Try another channel.</li> <li>Check the antenna/cable connections.</li> <li>If using a VCR, check the TV/VCR switch.</li> </ul>	14
Cannot receive UHF channels, VHF OK	Make sure the TV/CABLE function is in "TV" mode.	22
Black box appears on the screen.	Captioning may be turned on.	48
Cannot select a certain channel	That channel may be locked out with the CH LOCK function, or erased with the ADD/ERASE function.	40 23
Multiple images (ghosts)	<ul> <li>Maybe there is station trouble. Try another channel.</li> <li>Use a highly directional outdoor antenna.</li> </ul>	
Poor color or no color	Maybe there is station trouble or local interference.     Try another channel.     Adjust TINT and/or COLOR in the PICTURE menu.	28
No stereo or SAP sound from an MTS broadcast	Check that the MTS function is properly set.	31
The Remote Control does not operate.	<ul> <li>Check that the TV/CABLE/VCR switch is properly set.</li> <li>Maybe something is between the Remote Control and the sensor.</li> <li>Maybe batteries are dead. Try replacing batteries with new ones.</li> </ul>	12, 14

# ADDITIONAL REFERENC

## **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 One (1) Year Warranty

TACP and THI warrant this product 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 and THI will repair a defective product or part, without charge to you. "Authorized TACP/THI service station personnel will come to your home when warranty service is required. Depending on the type of repair required, the service will either be performed in your home or the set will be taken to the authorized TACP/THI service station for repair and returned to your home at no cost to you."

#### 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 and THI will replace a defective picture tube without charge (1) year from the date of the original retail purchase, you pay labor charges involved in the replacement.

#### Rental Unite

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

#### Commercial Units

Products sold and used for commercial use have a limited ninety (90) day warranty for all parts, labor and picture tube.

#### **Owner's Manual and Demographic Card**

You should read this owner's manual thoroughly before operating this product. You should complete and mail the enclosed Demographic card within ten days after you., or the person who has given you this product as a gift, purchased this product. This is one way to enable TACP/THI to provide you with better customer service and improved products. Failure to return the Demographic card will not affect your rights under this warranty.

#### Your Responsibility

The above warranties are subject to the following conditions;

- (1) You must retain your bill of sale or provide other proof of purchase.
- (2) All warranty servicing of this product must be made by an Authorized TACP/THI Service Station.
- (3) These warranties are effective only if the product is purchased and operated in the U.S.A. or Puerto Rico.
- (4) Labor service charges for set installation, set up, adjustment of customer controls and installation or repair of antenna systems are not covered by this warranty. Reception problems caused by inadequate antenna systems are your responsibility.
- (5) Warrant extend only to defects in materials or workmanship as limited above and do not extend to any product or parts which have been lost or discarded by you or to damage to products or parts caused by misuse, accident, damage caused by Acts of God, such as lightning or fluctuations in electric power, improper installation, improper maintenance or use in violation of instructions furnished by us; or to units which have had the serial number removed, altered, defaced or rendered illegible.

#### **How to Obtain Warranty Service**

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

- (1) 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) Please present your bill of sale or other proof to the Authorized Service Station. "Authorized TACP/THI service station personnel will come to your home when warranty service is required. Depending on the type of repair required, the service will either be performed in your home or the set will be taken to the TACP/THI Authorized service station for repair and returned to your home at no cost to you."

#### 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 state, 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.

#### 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. TEL: (808) 521-5377

#### TOSHIBA OF CANADA LTD.

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