

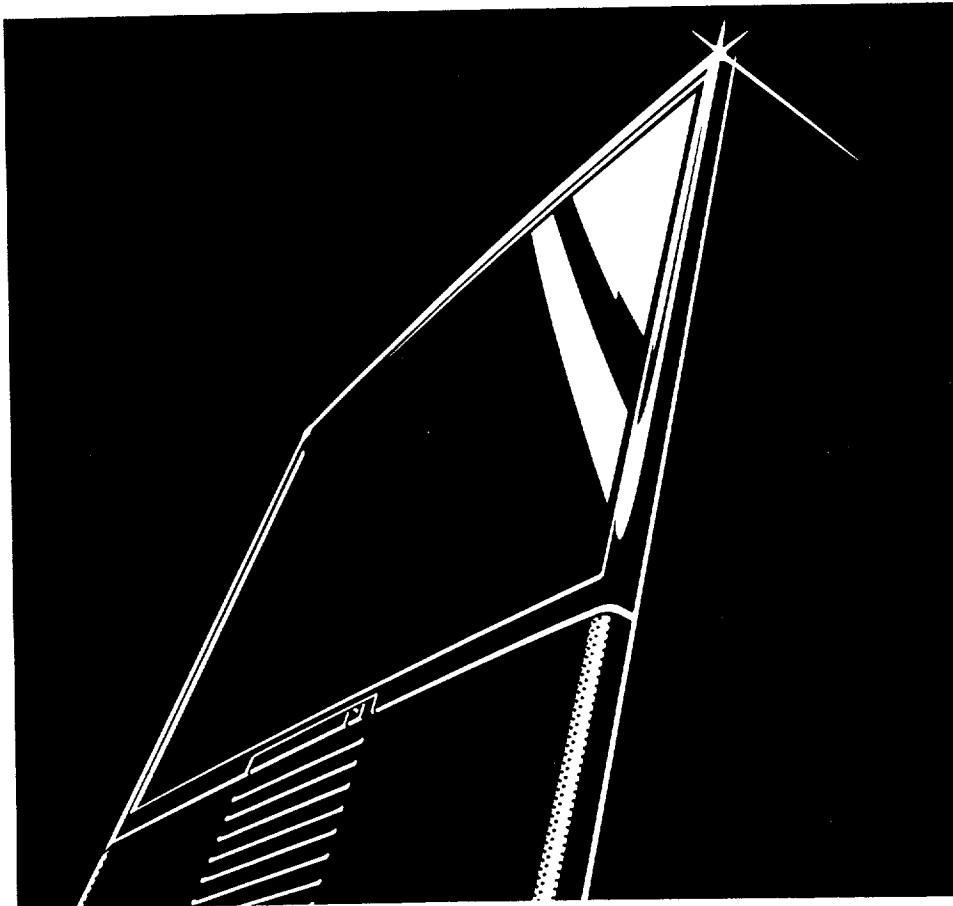
TOSHIBA

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Projection Television

OWNER'S MANUAL

TP50G60/TP50G60C TP55G60/TP55G65/TP61G60 ColorStream™



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Dear Customer

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

This owner's manual applies to models TP50G60, TP55G60/TP55G65 and TP61G60.

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.



Model Number _____

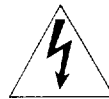
Serial Number _____

Safety Precautions

WARNING:

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

	WARNING RISK OF ELECTRIC SHOCK DO NOT OPEN	
AVIS: RISQUE DE CHOC ÉLECTRIQUE NE PAS OUVRIR		
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:

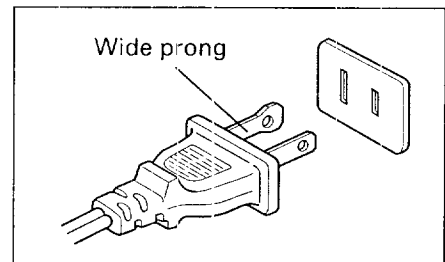
As a safety feature, the AC plug has one prong wider than the other.

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 an electrician.

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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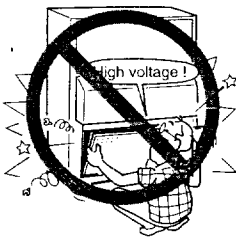
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Care and Maintenance



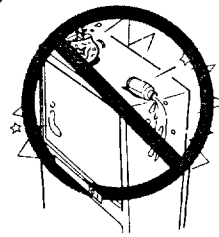
Do not stand or climb on the TV.

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



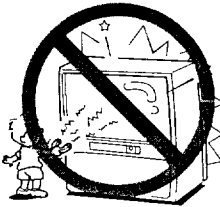
Do not remove the back cover and never remodel the cabinet or components.

- Let qualified technicians check and adjust your TV.

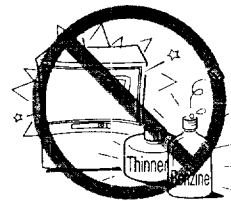


Do not place containers with liquids such as drinks or cosmetics on the TV.

If any foreign material or water has gotten into the TV, remove the AC cord and contact your dealer.

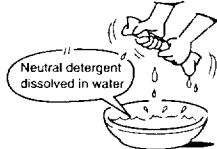
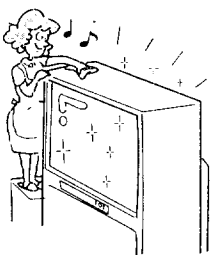


Keep magnets, toys with magnets, electric clocks, speakers, etc. away from the TV.



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 are 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.



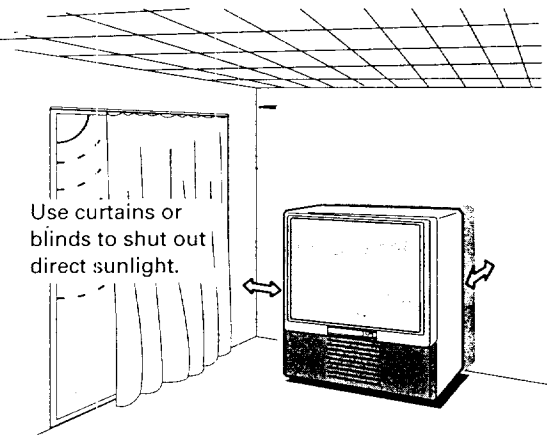
When cleaning the screen:

- 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.



Use curtains or blinds to shut out direct sunlight.

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 into an electrical outlet with standard household power (120 volt AC, 60 Hz). Do not change the plug's safety prong. See page 2.

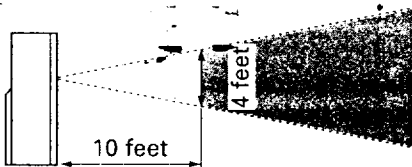
Moisture Condensation

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

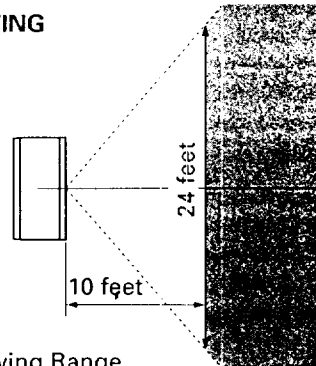
Sit approximately 10-25 feet away from the TV. Sitting too far to the left or right of the screen will cause the picture to appear dull as will direct sunlight and room lights. Turn the TV off to check for reflections on the screen. Then remove the source of any reflections while viewing.

VERTICAL VIEWING ANGLE [SIDE VIEW]



■ Viewing Range

HORIZONTAL VIEWING ANGLE [TOP VIEW]



■ Viewing Range

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

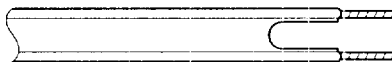
Shown below are two basic types of antenna cables. Signals from a home antenna may be conveyed by either type. Cable TV signals will always be conveyed by a 75 ohm coaxial cable.

- 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)

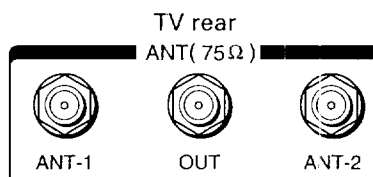


- ② A 300 ohm cable is a flat "twin-lead" cable that can be attached to a terminal using an antenna adapter. (Not supplied)



Antenna connection panel

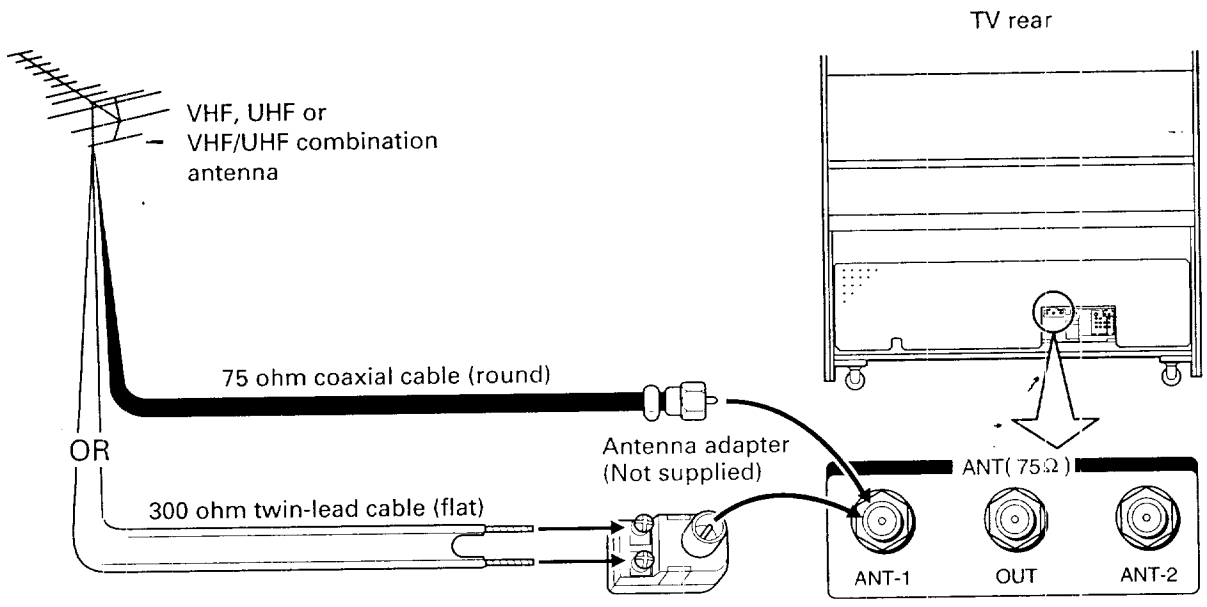
There are two separate 75 ohm F-type connector input terminals and a converter output terminal as shown below.



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 also 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.

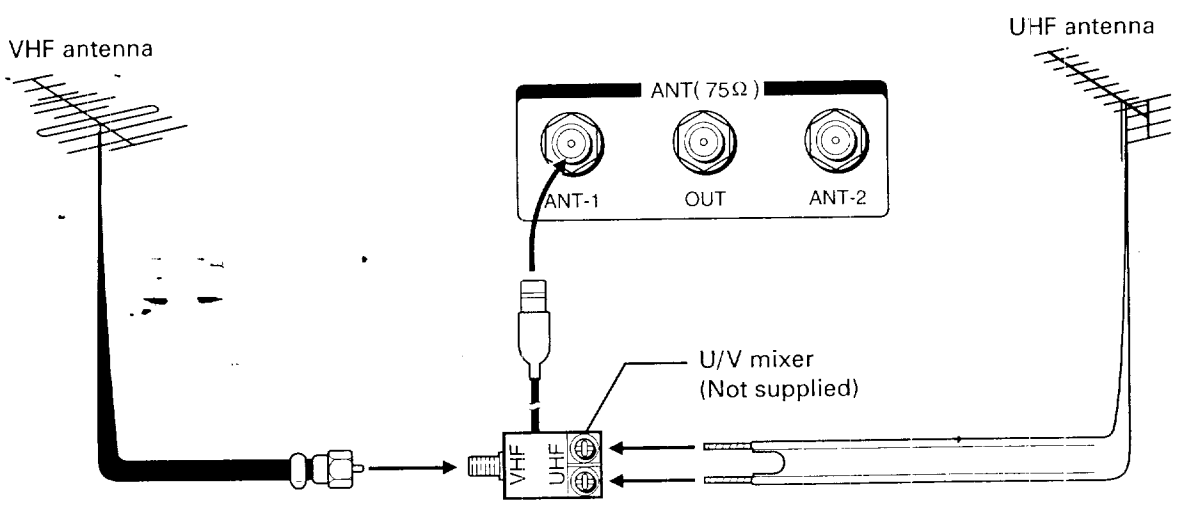
To connect a home antenna

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.

Antenna/Cable TV Connections (continued)

To connect 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)

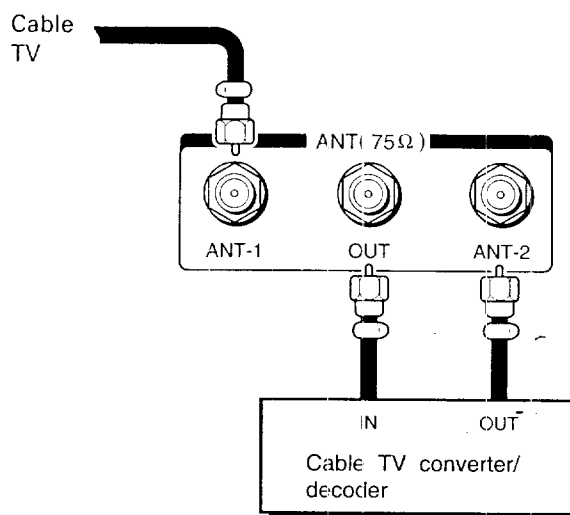


Note:

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.

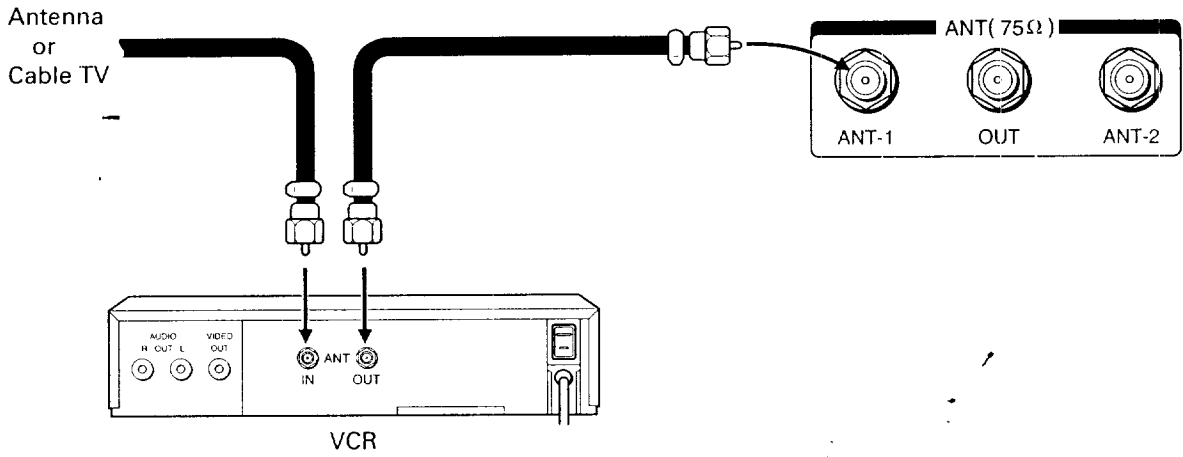


Note:

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

To connect an Antenna/Cable TV and VCR

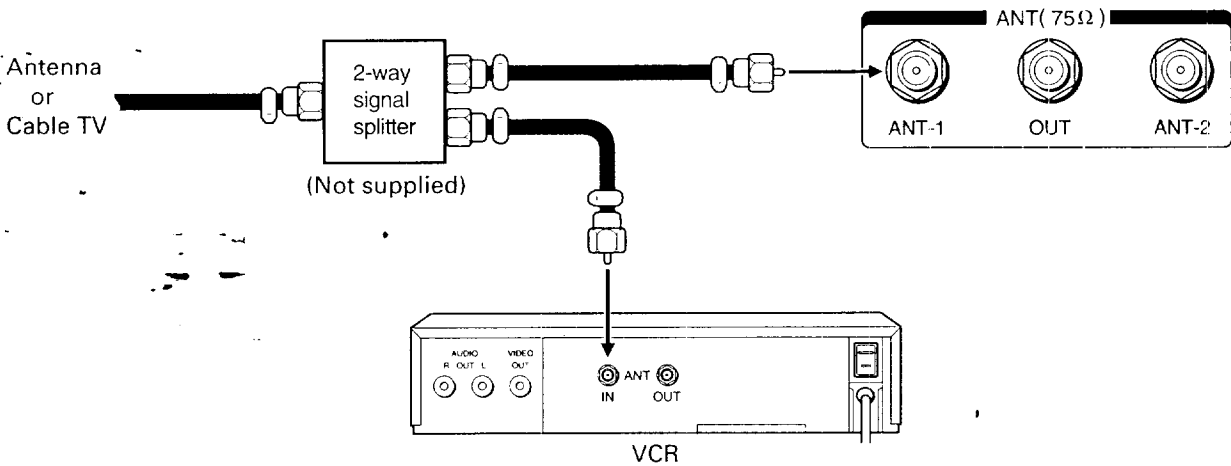
Antenna/Cable TV connection via VCR (Simplified method)



- 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 48.

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.



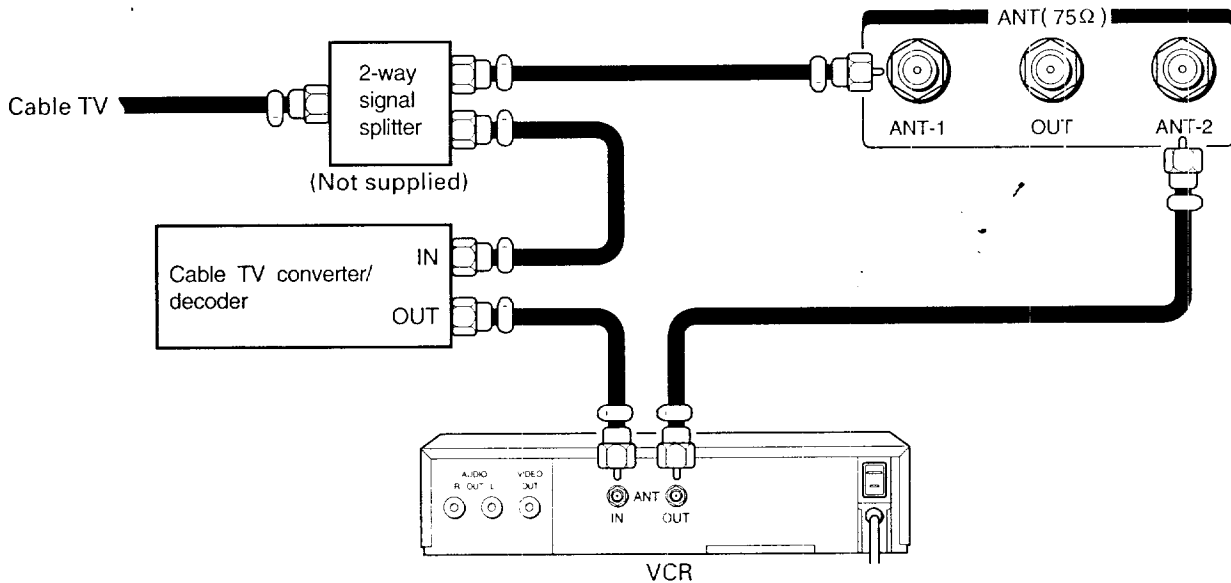
- Note:**
- VIDEO/AUDIO connections from the VCR to the TV are required for playback. See page 48.

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:

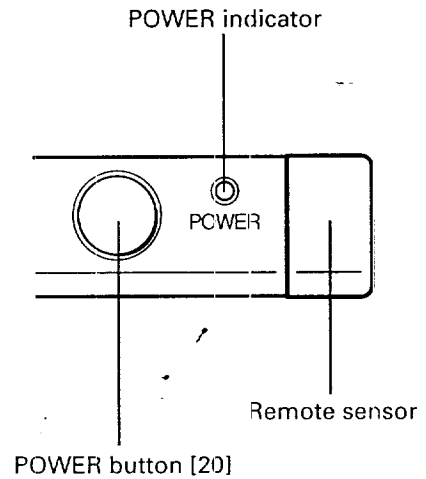
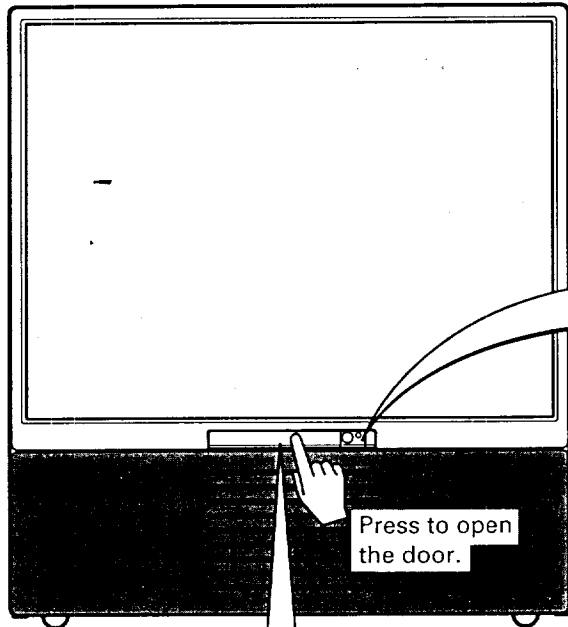
- VIDEO/AUDIO connections from the VCR to the TV are required for stereo tape playback from stereo VCRs. See page 48.
- The decoding device may or may not be a part of the cable converter.

Location of Controls

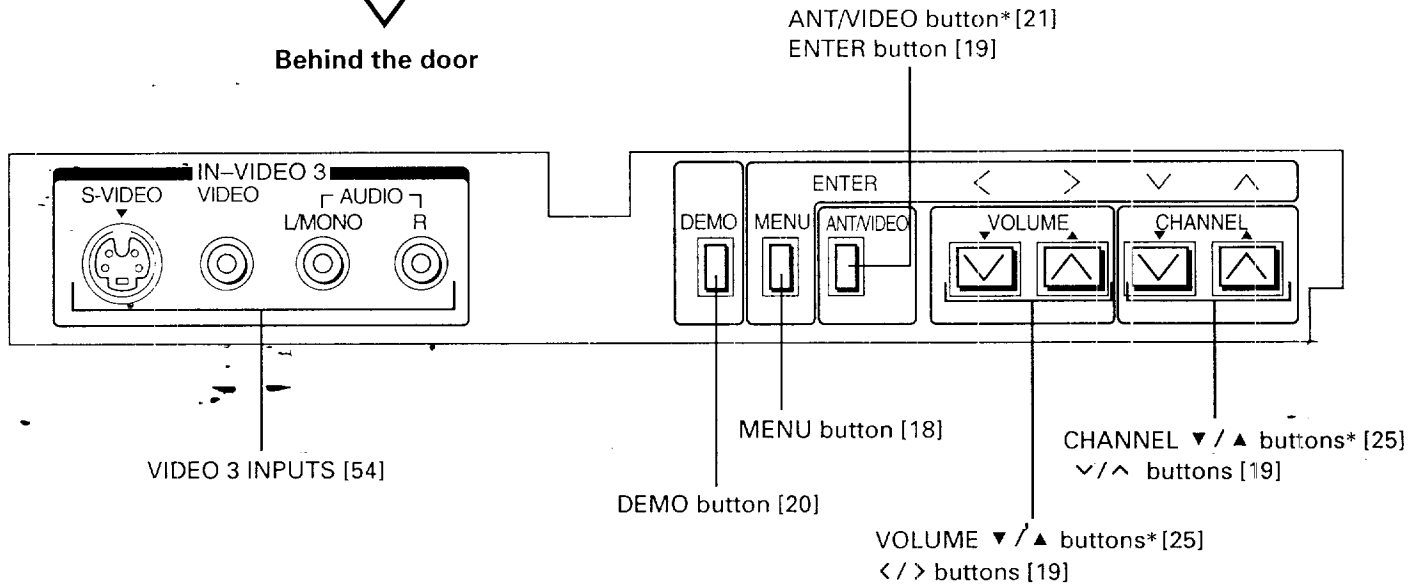
- The following describes the functions of each part of the TV and the Remote Control. For details on the use of each control, refer to the page numbers in brackets.

TV front

Illustrations represent TP55G60.



Behind the door



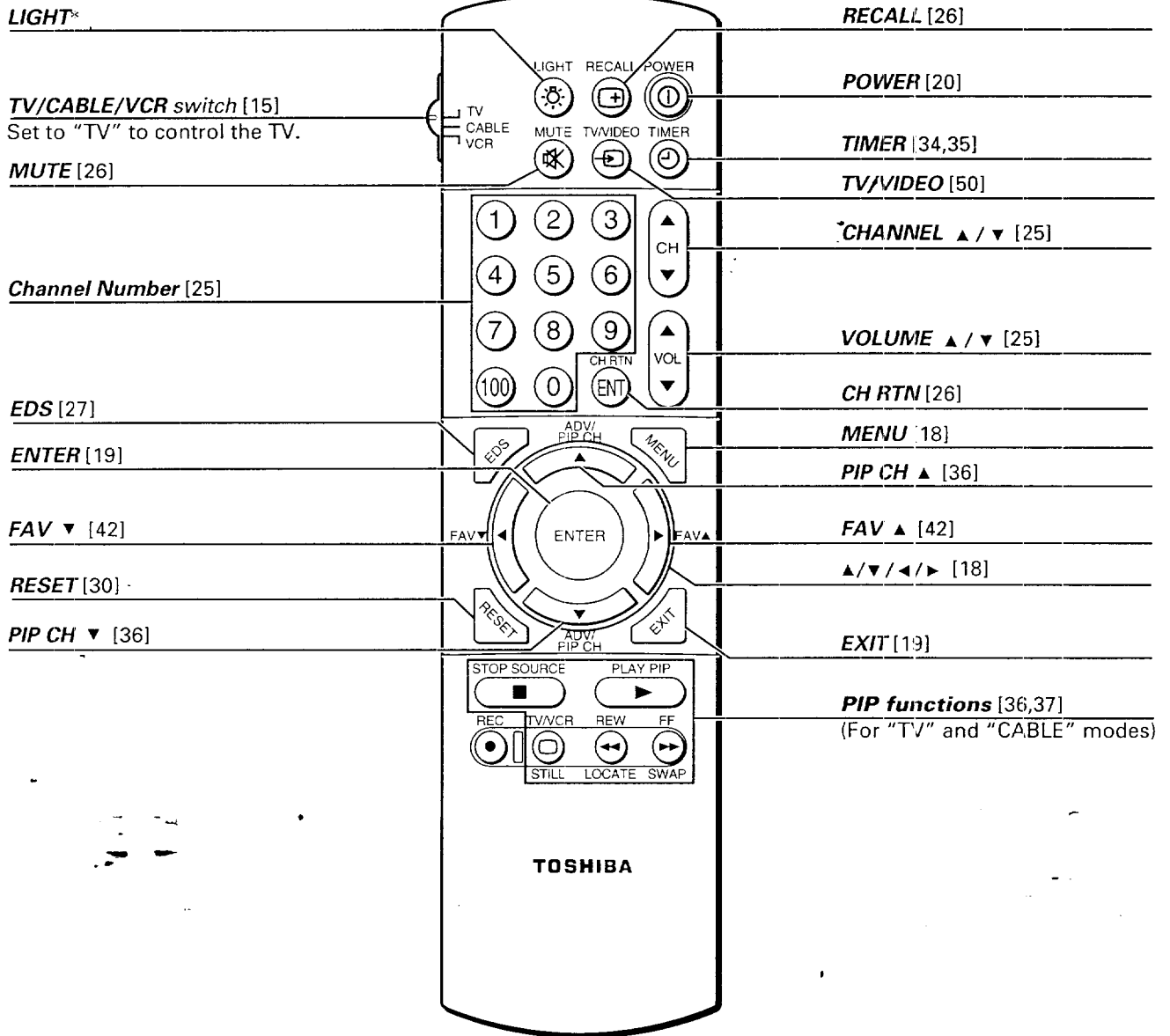
* Dual function buttons

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

To install the batteries

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 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.

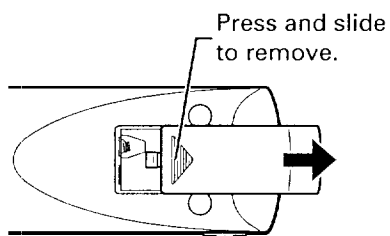
Before attempting to operate your Remote Control, install the batteries according to "Battery installation" below.

Notes:

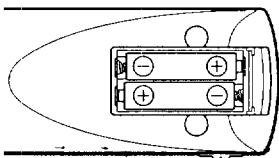
- After installing new batteries, the Remote Control will set itself to the codes for TOSHIBA TVs and VCRs. If you are using the Remote Control to operate other manufacturer's equipment, you will have to reprogram those codes.
- This Remote Control may have functions not available on your VCR and cable 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.

Battery installation

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



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



- 3 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

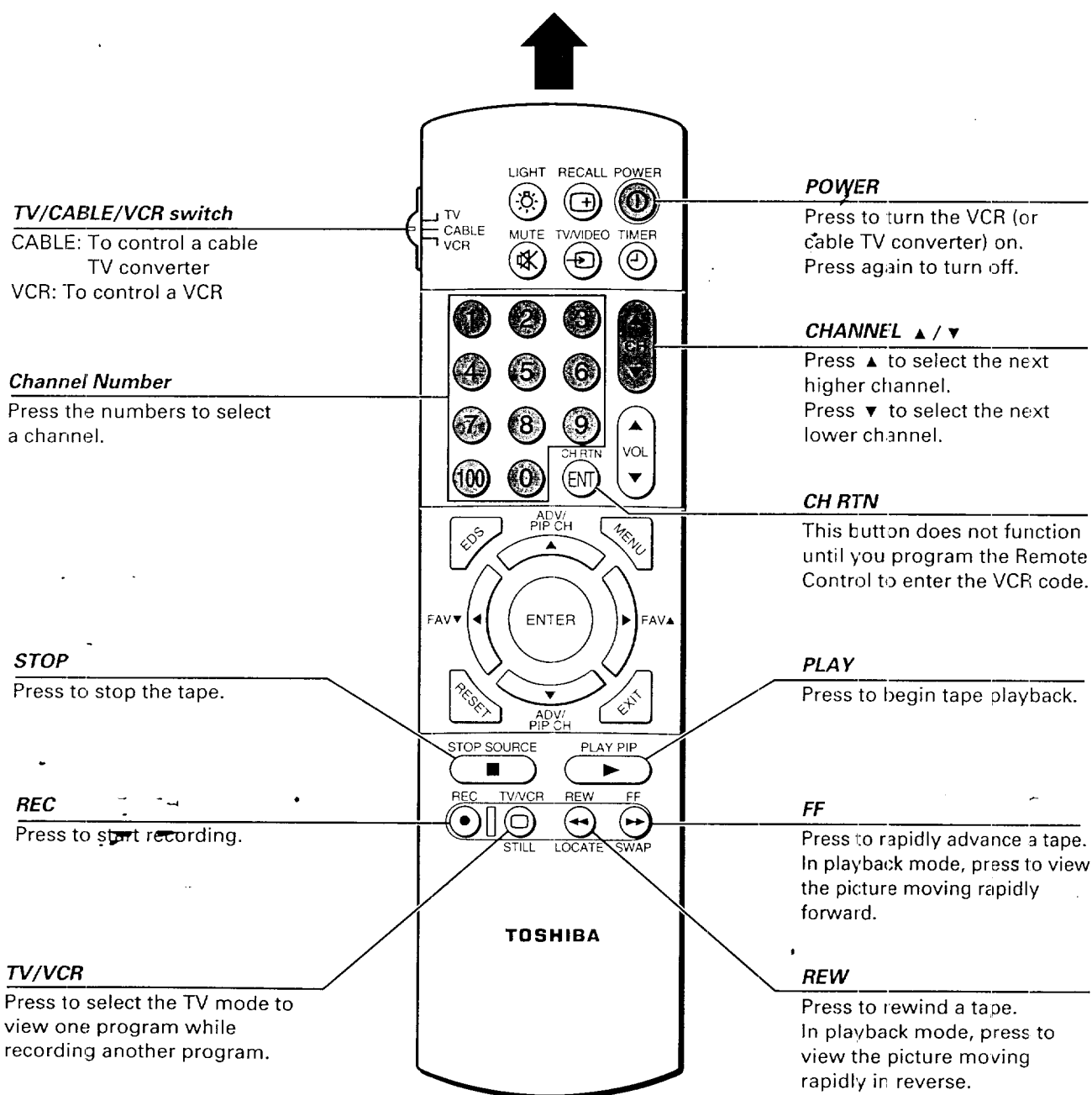
- For optimum performance, aim the Remote Control directly at the TV from a distance within 16 feet (5 m), and be sure there is no obstruction between the Remote Control and the TV.
- If your Remote Control does not always operate the TV as you wish, you probably need to replace the batteries. Use alkaline 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

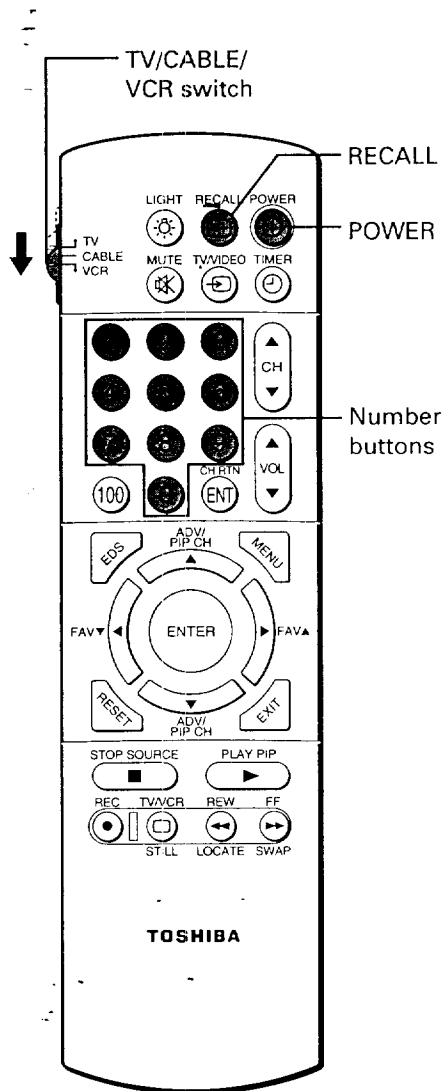
- To control a TOSHIBA VCR, first set the TV/CABLE/VCR switch to "VCR." The buttons shown below will then control the VCR. The rest of the buttons operate the TV as usual. If you have another brand of VCR, you can probably program the Remote Control to control it. Details are on page 15.
- To control 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.

1 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.

2 Set the **TV/CABLE/VCR** switch to "VCR" (or "CABLE").

3 While holding down **RECALL**, press the **Number** buttons to enter the three digit code number for your brand of VCR (or converter).

4 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.

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.

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	297		123	Minolta	061, 124
Aiwa	019	Frontech	039	Mitsubishi	062, 080, 086, 094,
Akai	060, 068, 080, 125,	Fuji	052, 054		100, 192, 233, 261
	261	Fnai	019	Motorola	054, 067
Akiba	091	Garrard	019	MTC	019, 259
Alba	039, 228, 297, 314	GE	054, 079, 084, 221	Multitech	019, 091
American High	054	GEC	100	Murphy	019
Amstrad	019	General	071	NEC	057, 059, 060, 069,
Anam	181	Go Video	251, 298		086
Anitech	091	Goldstar	037, 056, 057	Neckermann	100-
ASA	056, 100	Goodmans	019, 039, 056, 081,	Nesco	091
Asha	259		091, 297	Nikko	056
Asuka	056	Gradiente	019	Noblex	259
Audiovox	056	Graetz	060, 123	Nokia	060, 065, 123, 125,
Baird	019, 123	Granada	065, 100, 123		259
Basic Line	039, 091, 297	Grandin	019, 056, 091	Nordmende	060
Beaumarck	259	Grundig	100	Oceanic	019
Bell & Howell	123	Harley Davidson	019	Olympus	054
Blaupunkt	053, 181	Harman/Kardon	057, 094	Optimus	056, 067
Brandt	206	Harwood	087, 091	Optonica	067, 081
Broksonic	140, 203, 230, 380	HCM	091	Orion	140, 227, 228, 314
Bush	091, 228, 297	Headquarter	065	Osaki	019, 056, 091
Calix	056	HI-Q	066	Otto Versand	100
Canon	054	Hinari	091, 227	Palladium	056, 091
Caphart	039	Hitachi	019, 060, 061, 084,	Panasonic	054, 096, 115, 181,
Carver	100		124, 254		244
CCE	091, 297	Hypson	091	Penney	054, 056, 057, 059,
CGE	019	Imperial	019		061, 073, 259
Cimline	091	Interfunk	100	Pentax	061, 084, 124
Citizen	056, 297	ITT	060, 065, 123, 125	Perdio	019
Clatronic	039	ITV	056, 297	Philco	054
Colt	091	JCL	054	Philips	054, 081, 100, 129
Condor	039	Jensen	060	Phonola	100
Craig	056, 066, 091, 259	JVC	027, 060, 086	Pilot	056
Crown	091, 297	Kaisui	091	Pioneer	086, 100
Curtis Mathes	054, 079	Kendo	125, 228	Portland	039
Cybernex	259	Kenwood	057, 060, 065, 086	Profitronic	259
Daewoo	039, 064, 065, 297	KLH	091	Proline	019
Dansai	091	Kodak	054, 056	protec	091
Daytron	039	Korpel	091	Pulsar	058
De Graff	061	Leyco	091	Pye	100
Decca	019, 100	Lloyd	019	Quarter	065
Dual	060	Loewe	056	Quartz	065
Dumont	019, 100, 123, 124	Loewe opta	100	Quasar	054, 096, 115
Dynatech	019	logik	091, 259	Quelle	100
Elcotech	091	Luxor	062, 065, 123, 125	Radio Shack	019, 056
Electrohome	056	LXI	056	Radiola	100
Electronic	019	M-Electronic	019	Radix	056
Electroponic	056	Magnavox	019, 054, 058, 100,	Randex	056
Emerex	051		129, 168	RCA	054, 061, 079, 084,
Emerson	019, 021, 056, 062,	Magnin	259		096, 115, 124, 125,
	080, 087, 140, 203,	Manesth	064, 091		168, 221
	227, 228, 230, 231,	Narantz	054, 057, 081, 100	RCA Unified	079
	313, 314, 380	Marta	056	Realistic	019, 054, 056, 065,
ESC	297	Masushita	054		066, 067, 081, 085,
Ferguson	060	Matsui	227, 228, 314		123, 259
Fidelity	019	MEI	054	Rex	060
Finlandia	100, 123, 129	Memorex	019, 054, 056, 058,	Ricoh	053
Finlux	019, 061, 100, 123,		065, 066, 067, 123,	Roadstar	056, 091, 259, 297
	124		259	Runco	058
Firstline	056, 062, 064, 091,	Memphis	091	Saba	060
	228	Metz	181	Saisho	227, 228
		MGA	062, 080	Salora	062, 065, 125

Cable TV converter code table

BRAND NAME	CODE NUMBER	BRAND NAME	CODE NUMBER	BRAND NAME	CODE NUMBER
Samsung	064, 259	ABC	020, 022, 026, 030, 032, 033, 036, 066	Tocom	031, 032, 078
Sanky	058, 067	Antronix	041	Toshiba	019
Sanqui	060, 086	Archer	041, 058, 172	Tusa	034
Sanyo	065, 066, 123, 259	Belcor	075	Unika	041, 172
SBR	100	Cable Star	075	United Artists	026
Schaub Lorenz	019, 060	Cabletenna	041	United Cable	022
Schneider	019, 091, 100, 129	Cableview	041	Universal	041, 058, 075, 096, 172, 210
Scott	062, 064, 140, 203, 229, 230, 231	Century	172	Viewstar	046, 079, 230
Sears	054, 056, 061, 065, 066, 073, 085, 123, 124	Citizun	172	Zenith	019
SEG	259	Color Voice	044, 050		
SEI	100	Comtronics	059, 079		
Seleco	060	Contec	038		
Senra	039	Eastern	021		
Sharp	067, 081	Garrard	172		
Shintom	091	GC Electronics	035, 075		
Shgun	259	Gemini	034, 089		
Siemens	056, 123	General			
Silva	056	Instrument	030		
Singer	091	Hamlin	028, 039, 053, 278, 292		
Sindyne	100	Hitachi	030		
Sontec	056	Hytex	026		
Sony	051, 052, 053, 054	Jasco	172		
STS	061	Jerrold	022, 030, 031, 033, 034, 043, 045, 066, 295		
Sunstar	019	Macom	052		
Sylvania	019, 054, 062, 100, 129	Magnavox	046		
Symphonic	019	Memorex	019		
Tandy	019, 123	Movie Time	175		
Tashiko	019	NSC	089, 175		
Tatung	019, 060, 100	Oak	026, 038, 267		
Teac	019, 060	Panasonic	040, 126		
Technics	054, 181	Paragon	019		
Teknika	019, 054, 056, 071	Philips	044, 046, 047, 048, 049, 050, 079, 172		
Teleavia	060	Pioneer	042, 163		
Telefunken	060, 206	Popular			
Tenosal	091	Mechanics	419		
Tensai	019	Pulsar	019		
Thomson	060	PVP Stereo			
Thorn	060, 123	Visual Matrix	022		
TMK	227, 259	RCA	040		
Toshiba	060, 062, 064, 085, 229, 231, 385	Regal	039, 278, 292		
Totevision	056, 259	Regency	021		
Triumph	227	Rembrandt	030, 089		
Untech	259	Runco	019		
Universum	019, 056, 068, 100, 125	Samsung	059, 163		
Vector	064	Scientific Atlanta	025, 027, 036, 296, 346		
Vector research	057, 059	Signal	034, 059		
Victor	027, 060, 086	Signature	030		
Video Concepts	059, 064, 080	SL Marx	059		
Videosonic	259	Sprucer	040		
Wards	019, 054, 061, 066, 067, 081, 091, 168, 231, 259	Standard			
XR-1000	019, 054, 091	Components	174		
Yamaha	057, 060	Starcom	022, 034, 066		
Yamishi	091	Stargate	034, 059		
Yokan	091	Starquest	034		
Yoko	039, 259	STS	175		
Zenith	052, 053, 058	Sylvania	020		
		Teleview	059		
		Texcan	020		

Quick Reference Menu Guide

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

Menus and functions

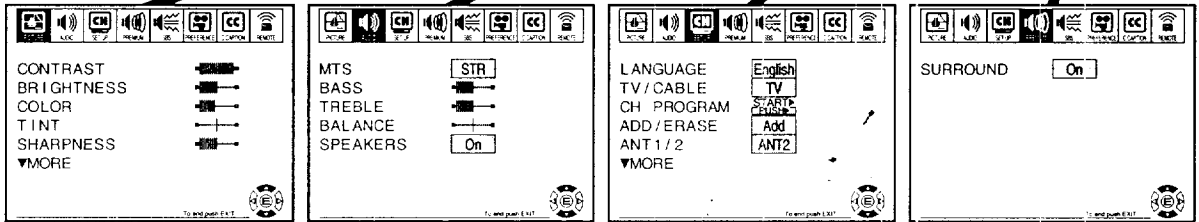
- 1**
- 2**
- 3**
- 4**

Press **MENU** to call up an on-screen menu.

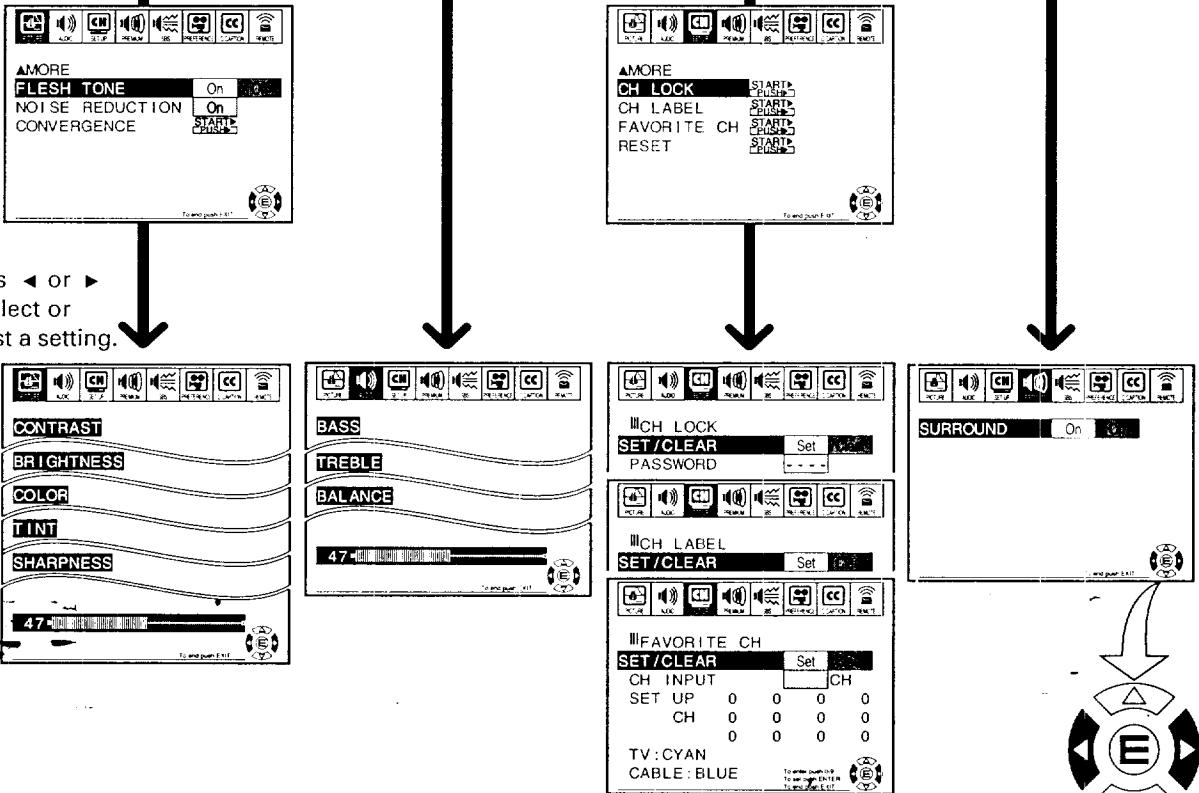
Press **◀** or **▶** to select the menu.



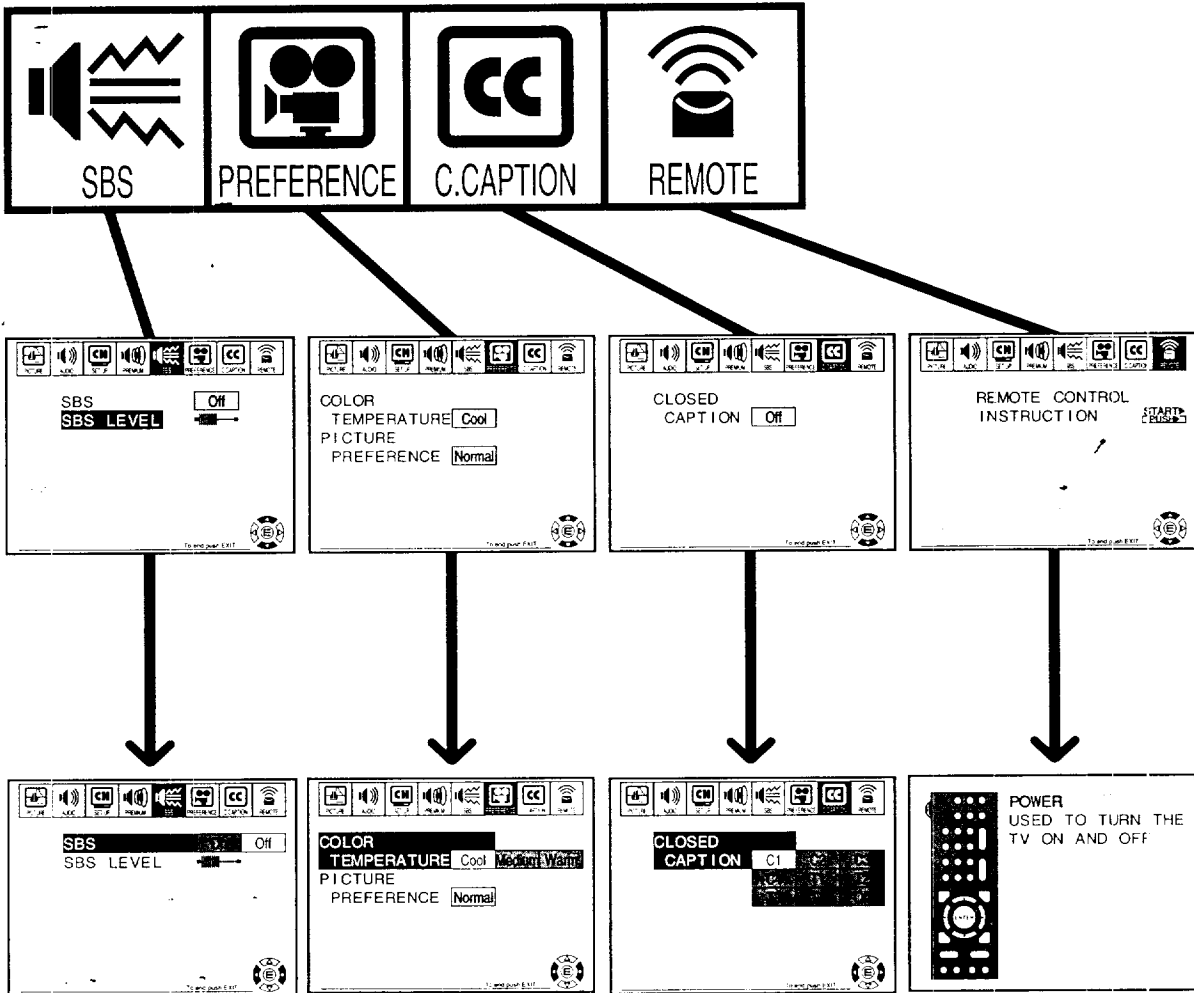
Press **▲** or **▼** to select an item.



Press **◀** or **▶** to select or adjust a setting.

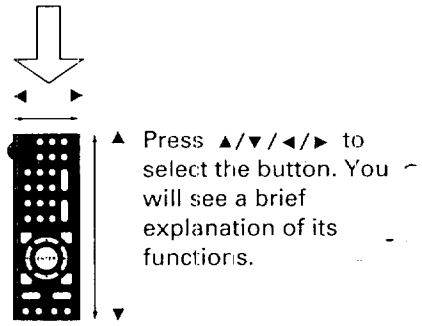


This mark indicates which button you should press next.



Notes:

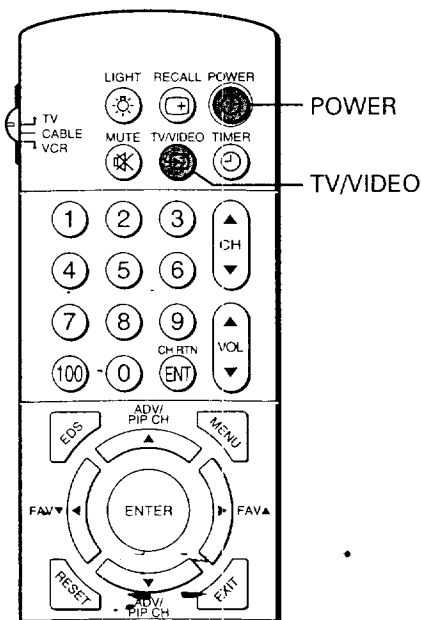
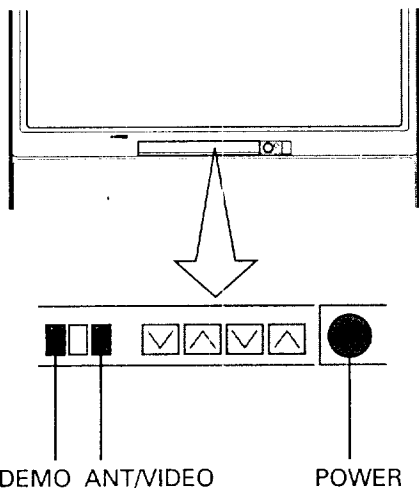
- Use the **ENTER** button to activate the function settings in the SET UP menu after step 4.
- The main menu display will disappear automatically if you do not press a button within 15 seconds, and the other displays will disappear within 6 seconds.
- If you want to close all the on-screen displays instantly, press the **EXIT** button on the Remote Control.
- The ∇/\wedge buttons on the TV function as the **CHANNEL** ∇/\wedge buttons when no menu display is on the screen.
- The \langle/\rangle buttons on the TV function as the **VOLUME** ∇/\wedge buttons when no menu display is on the screen.
- The $\blacktriangle/\blacktriangleright$ buttons on the Remote Control function as the **FAV** ∇ and \blacktriangle buttons when no menu display is on the screen.



Turning the TV On/Off

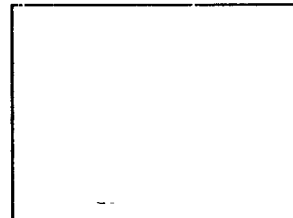
To turn the TV on/off

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



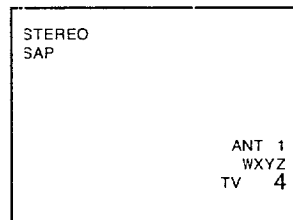
Note:
The **TV/VIDEO** button or **ANT/VIDEO** button is used to input signals from other sources such as VCRs or Laser Disc Players connected to this TV. See page 50 for details.

1 Press **POWER** on the Remote Control or the TV.
The picture will appear in a few seconds.



2 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



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

Auto-Power-Off

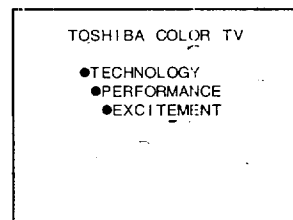
If an empty channel is selected, or the TV broadcast for the day is finished, the TV will automatically turn off after about 15 minutes. This **Auto-Power-Off** feature does not operate in the VIDEO mode.

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.



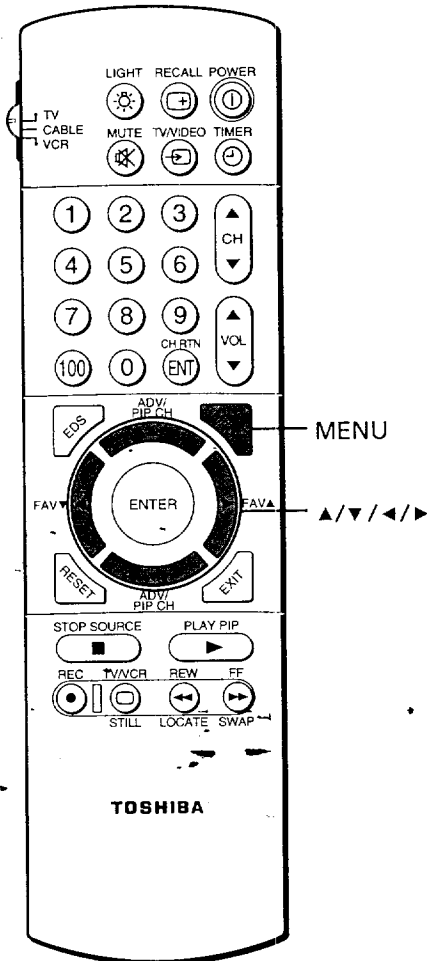
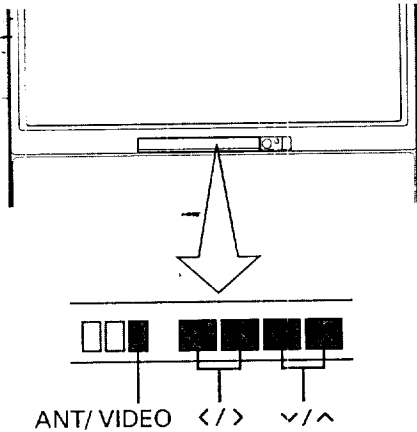
To stop the on-screen demonstration
Press **DEMO** again.

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.

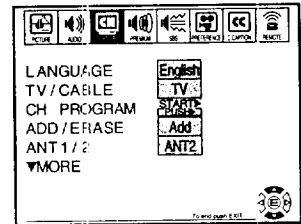
GETTING STARTED

To select the antenna input

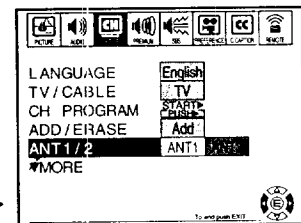


Using the SET UP menu

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



2 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 or ANT 2 mode will be selected in order. The selected mode will be displayed in magenta to show which signal source you are watching. Press the button until "ANT 1" or "ANT 2" is displayed in magenta to match the antenna terminal you want to use.

VIDEO 1	ANT 1
VIDEO 2	ANT 2
VIDEO 3	
TO SELECT PUSH ANT/VIDEO	

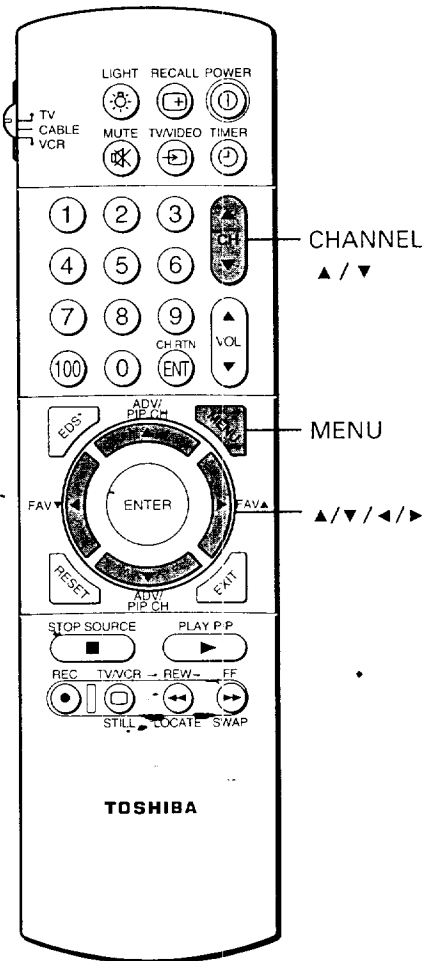
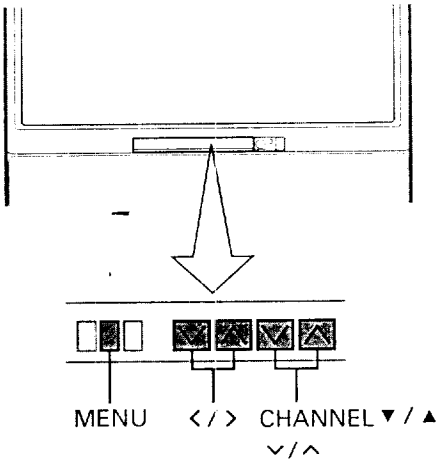
Note:
This button functions as the **ENTER** button while the menu is on the screen.

Programming Channel Memory

- The channel memory is the 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.

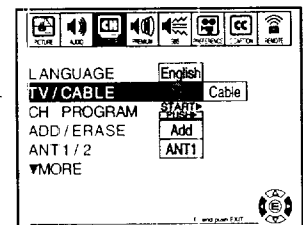
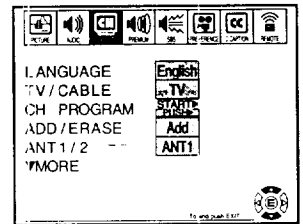
TV/CABLE and CH PROGRAM functions

GETTING STARTED



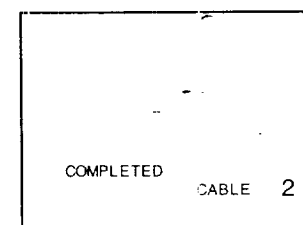
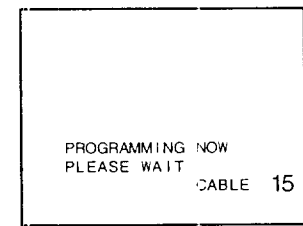
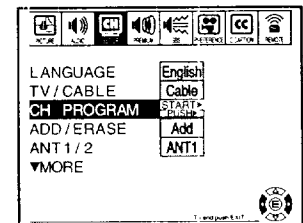
TV/CABLE function

- Press **MENU**, then press **◀** or **▶** until the SET UP menu appears.
- Press **▼** (or **▲**) until "TV/CABLE" is highlighted.
- Press **◀** or **▶** to select "TV" or "Cable" whichever you use.



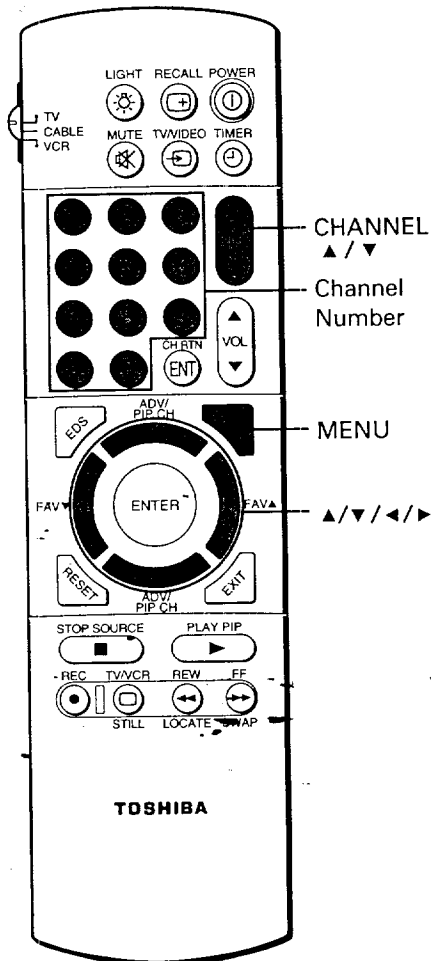
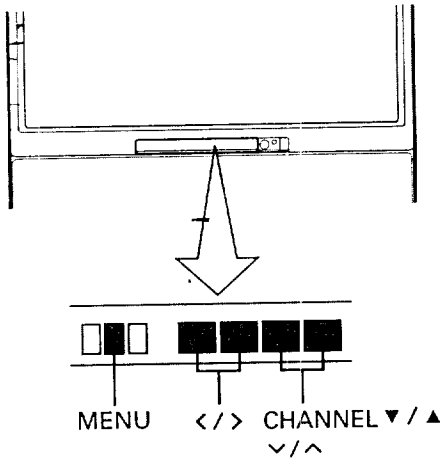
CH PROGRAM function

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

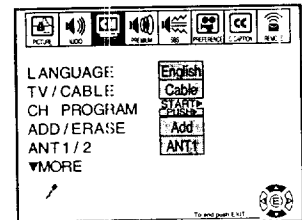
ADD/ERASE function



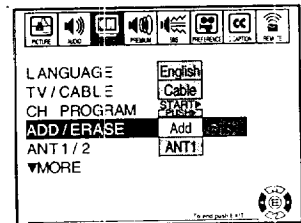
After performing the CH PROGRAM function, you can add or erase specific channels.

- 1 Select the channel to erase using the **CHANNEL ▲** or **▼** button, or select the channel to add with the **Channel Number** buttons.
See page 25 on how to select channels.

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



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



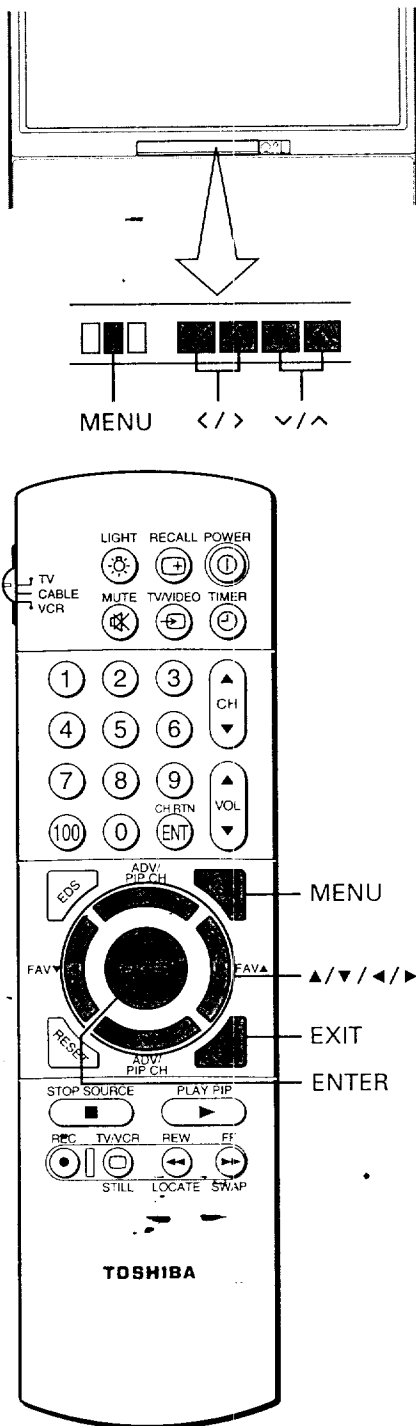
- 4 Press **◀** or **▶**.
To erase the channel
Press **◀** or **▶** to select "Erase". The channel will be erased from the memory.
To add the channel
Press **◀** or **▶** to select "Add". The channel will be memorized.

- 5 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.
- Your dealer should adjust the color convergence when your TV is delivered. However, convergence may drift over time or if you move the TV. If you can see clear images on the screen, skip this procedure.

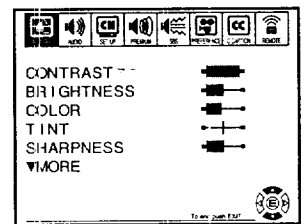
To align the colors



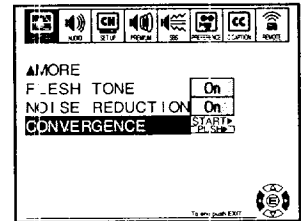
This adjustment should be made after the TV has been on for at least 30 minutes.

To check and align the colors

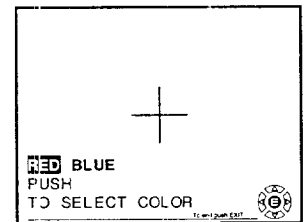
- 1 Press **MENU**, then press **◀** or **▶** until the PICTURE menu appears.



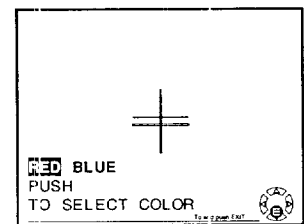
- 2 Press **▲** (or **▼**) until "CONVERGENCE" is highlighted.



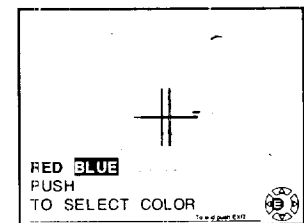
- 3 Press **◀** or **▶** to display the CONVERGENCE menu. If alignment is correct, there will be one vertical and one horizontal white line.



- 4 If you see separate colored lines, you have to align the colors. Press **ENTER** to select "RED" or "BLUE." The selected mode is highlighted.



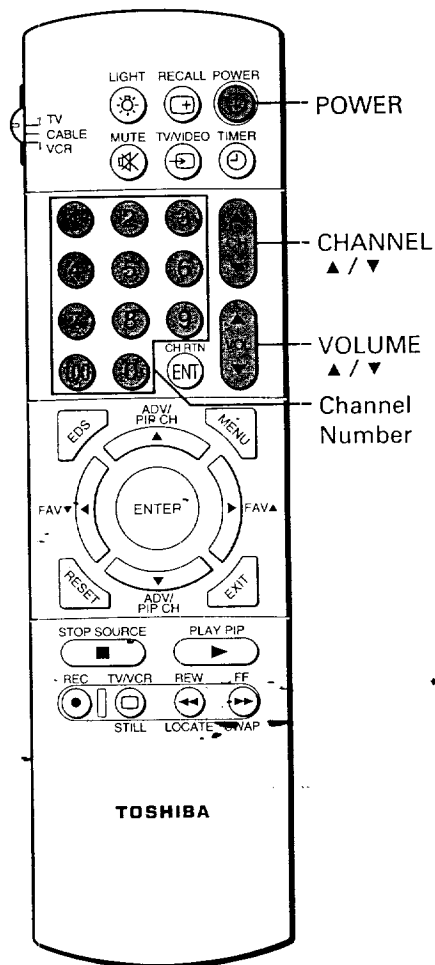
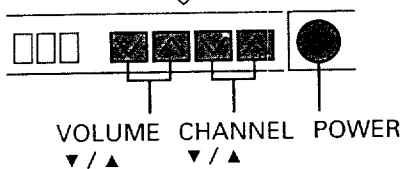
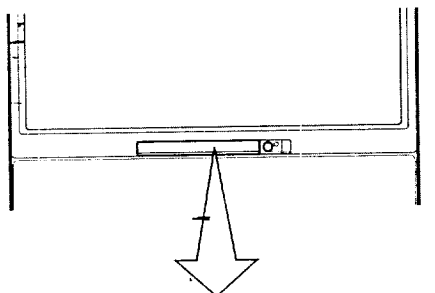
- 5 Press the "**▲** (up)", "**▼** (down)", "**◀** (left)" and "**▶** (right)" buttons to converge the red or blue line into the green line. When color convergence is correctly adjusted, you will see two single white lines.



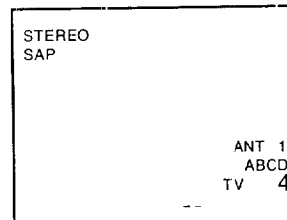
- 6 Press **EXIT** to close the CONVERGENCE menu.

Watching TV Programs

To watch a TV program



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

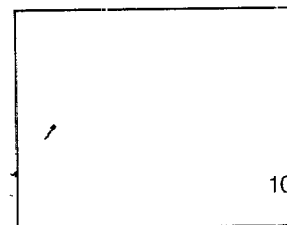
2 Select the desired program in one of the following two ways.

To scan the memorized channels in numerical sequence

Press **CHANNEL ▲** 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).

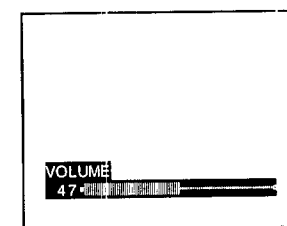
To select channel 4, press "4" (or press "0" and "4" in order).

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

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

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

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



4 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.

Note:

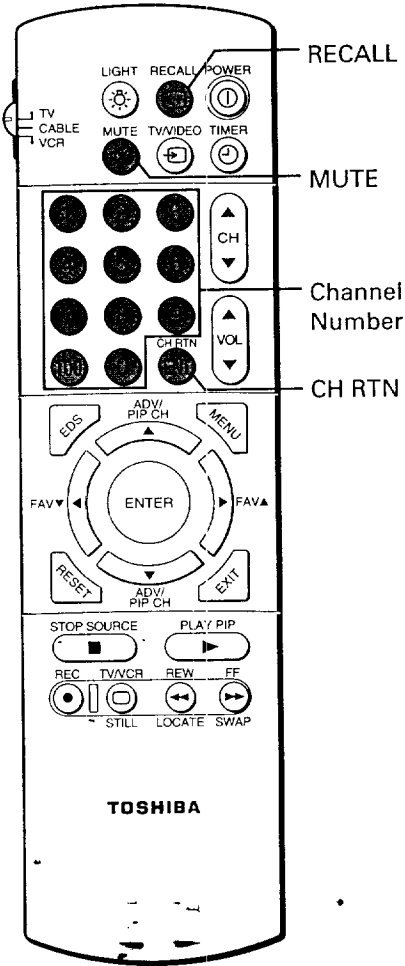
The **VOLUME ▼ / ▲** on the TV function as the menu **< / >** buttons while a menu is on the screen.

BASIC OPERATION

Convenient Remote Functions

BASIC OPERATION

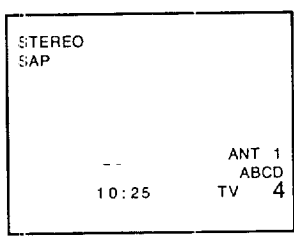
To use On-screen displays/Sound muting/Channel return



To display on-screen information

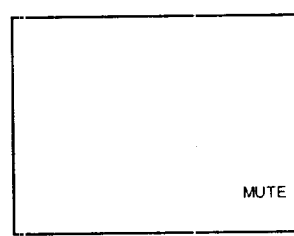
Press **RECALL** to display the following on-screen information.

- 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

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



2 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 44.)

To return to the previously viewed channel

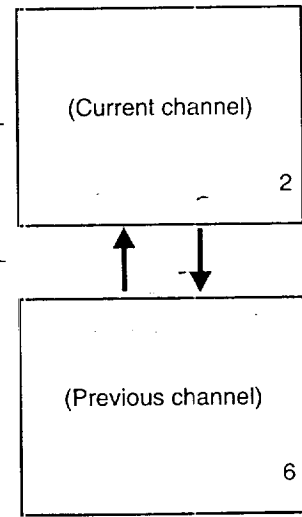
Using this function, you can watch two channels alternately.

1 Select the first channel you want to watch.

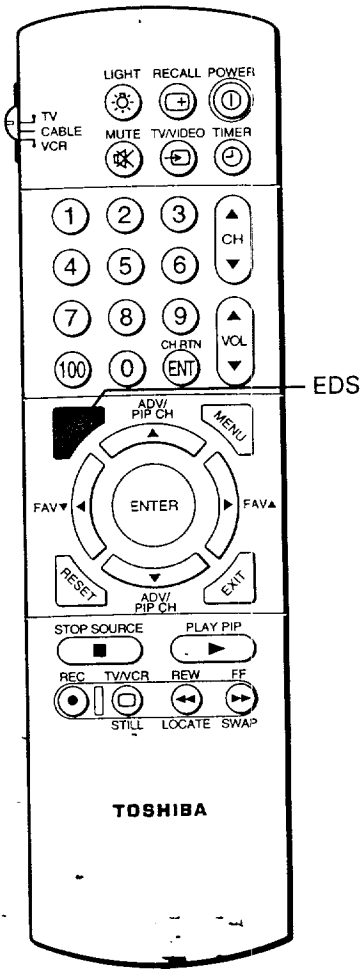
2 Select the other channel with the **Channel Number** buttons.

3 Press **CH RTN**.
The previous channel returns.

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

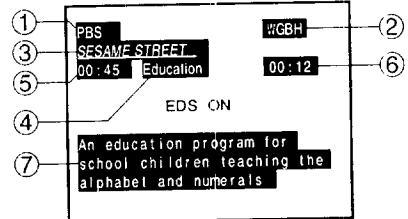


To display EDS information



Press **EDS** to display the following EDS (Extended Data Service) information for about 30 seconds.

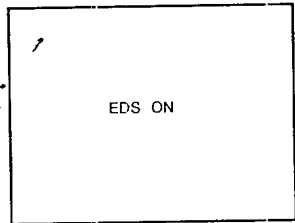
- Network name ①
- Call letters ②
- Program name ③
- Program type ④
- Program length ⑤
- Elapsed time in show ⑥
- Program description ⑦



Some of the above information may not be displayed.

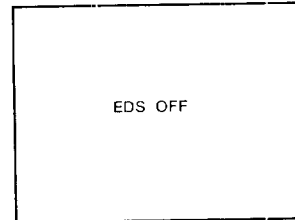
If the TV program you are watching does not include EDS information

Only "EDS ON" will be displayed for about 4 seconds when you press the EDS button.



To close the EDS display

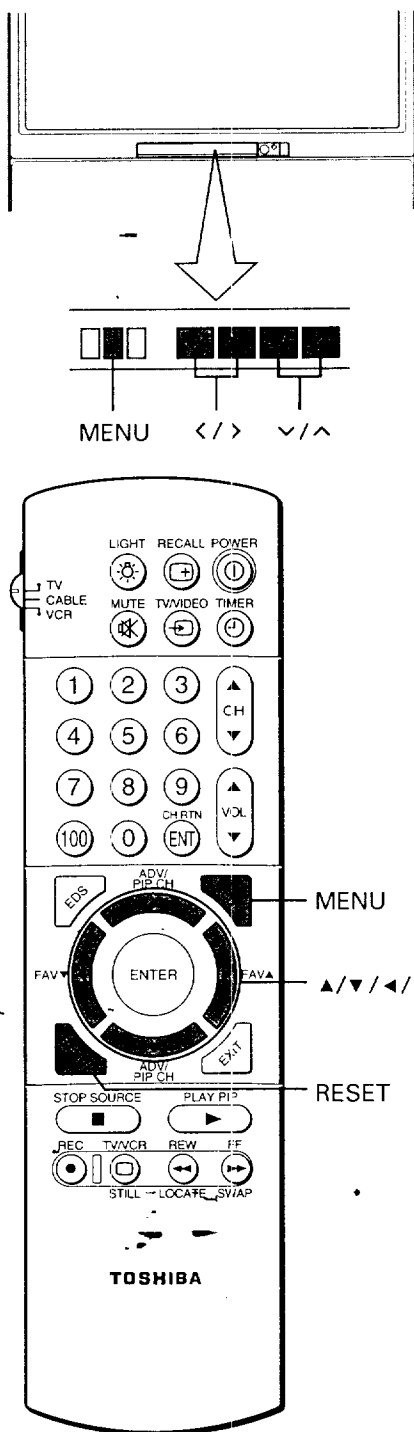
Press **EDS** again.



Controlling the Picture

BASIC OPERATION

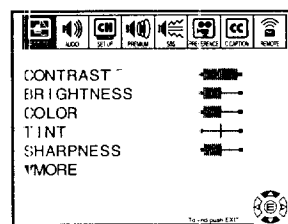
To adjust the picture



To adjust the picture quality

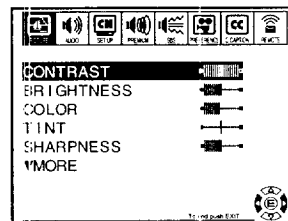
You can adjust the picture quality (CONTRAST, BRIGHTNESS, COLOR, TINT, and SHARPNESS) to suit your personal preference.

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



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

Example: CONTRAST adjustment mode display



3 Press ◀ or ▶ to adjust the level.



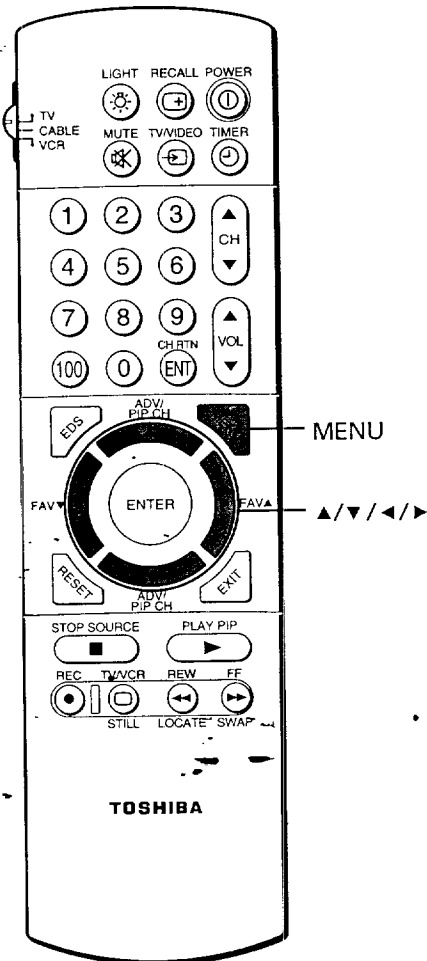
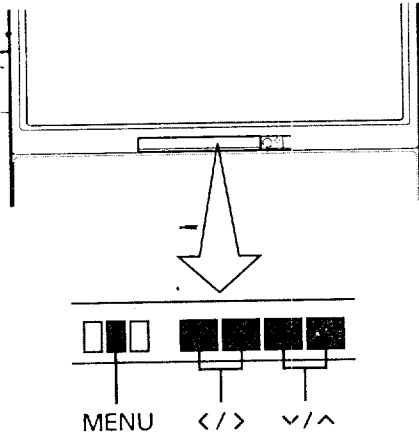
Item	Pressing	
	◀	▶
CONTRAST	lower	higher
BRIGHTNESS	darker	lighter
COLOR	weaker	stronger
TINT	reddish	greenish
SHARPNESS	softer	sharper

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

To reset the picture adjustments to the factory preset level

Press **RESET**. (See page 30 for details.) When you press **Reset** the TV will return to the NORMAL mode. (The settings you have adjusted remain in the MEMORY mode.)

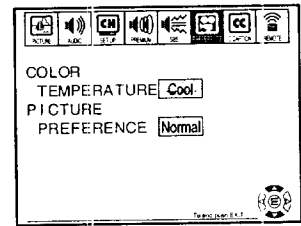
To adjust the picture (continued)



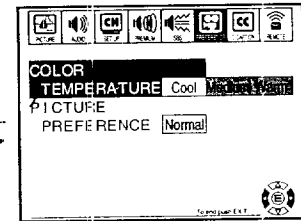
To select the color temperature

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

- 1 Press **MENU**, then press **<** or **>** until the **PREFERENCE** menu appears.



- 2 Press **▲** or **▼** until "COLOR TEMPERATURE" is highlighted.



- 3 Press **<** or **>** to select the temperature you want.

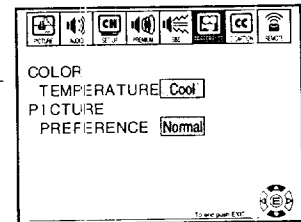
Cool: Bluish
Medium: Neutral
Warm: Redish

To select the picture preference

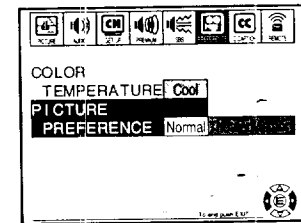
You can select a desired picture set up from three preset picture modes (Normal, Theater, and Memory) instantly.

Select the **PREFERENCE** menu.

- 1
- 2 Press **▲** or **▼** until "PICTURE PREFERENCE" is highlighted.



- 3 Press **<** or **>** to select the mode you want.

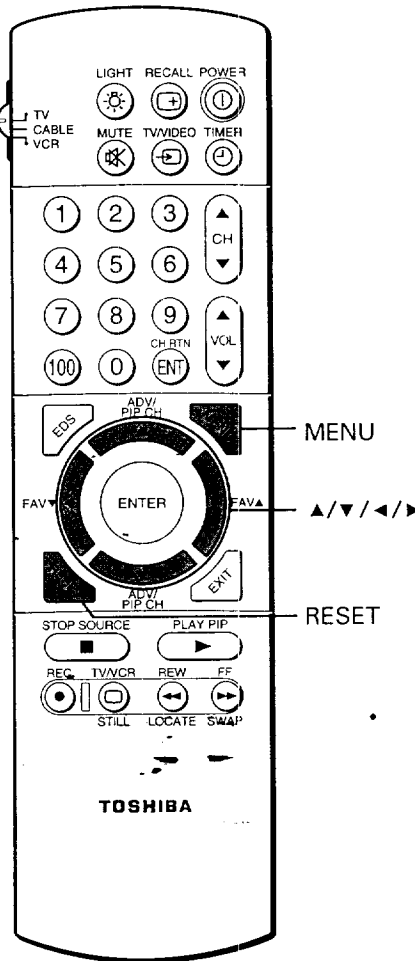
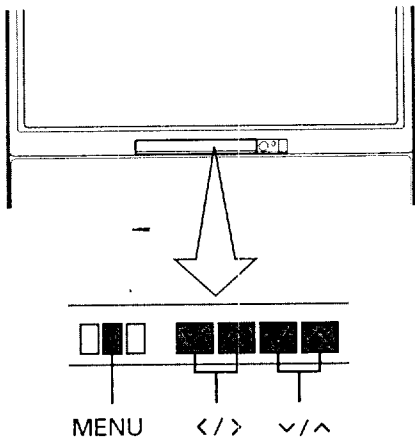


Mode	Picture quality
Normal	the picture quality preset at the factory
Theater	Movie-like picture setting.
Memory	the picture quality you set (See page 28.)

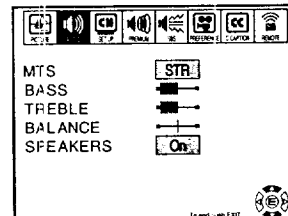
Controlling the Sound

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

To adjust the sound

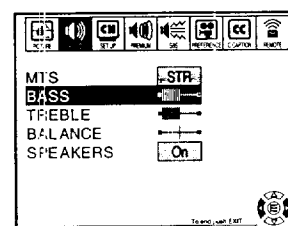


1 Press **MENU**, then press ◀ or ▶ until the AUDIO menu appears.

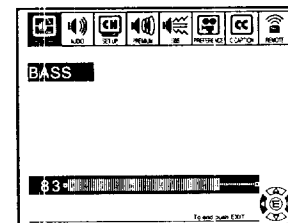


2 Press ▼ (or ▲) until the item you want to adjust is highlighted.

Example: Adjusting "BASS."



3 Press ◀ or ▶ to adjust the level.



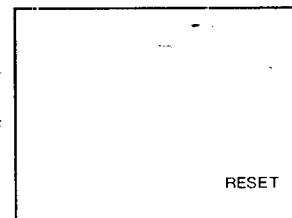
Item	Pressing	
	◀	▶
BASS	weaker	stronger
TREBLE	weaker	stronger
BALANCE	decreases the right channel	decreases the left channel

RESET

To reset the PICTURE and AUDIO adjustments to the factory preset level (maximum CONTRAST and all other adjustments centered) Press **RESET**, or select RESET in the SET UP menu with ▲ or ▼, then press ◀ or ▶.

The **RESET** button also performs the following adjustments.

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

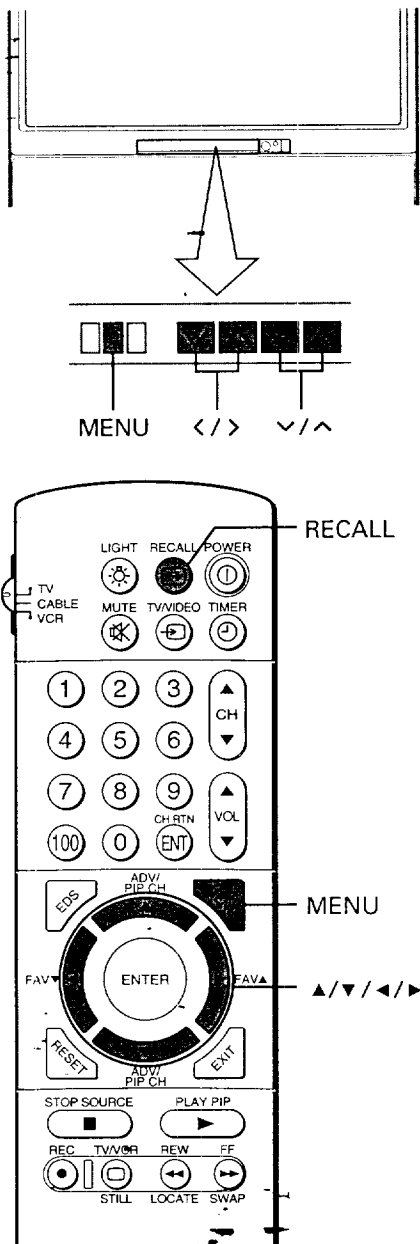


BASIC OPERATION

Selecting Stereo and SAP Broadcasts

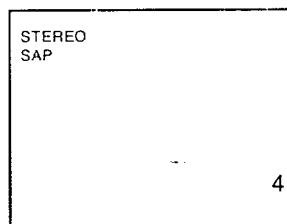
- The MTS (Multi-channel TV Sound) feature allows you to improve your TV viewing with high fidelity stereo sound. MTS also provides for an extra audio channel, SAP (Second Audio Program), used to transmit a second language or other audio information.

To listen to Stereo/SAP broadcasts

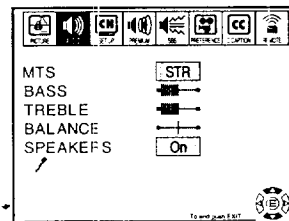


To listen to stereo sound

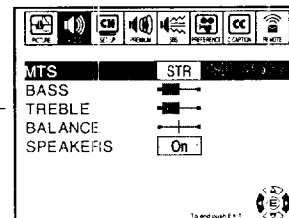
When the TV receives a stereo broadcast, the word "STEREO" (or "SAP") is displayed on the screen. It is also displayed whenever the TV is turned on, a channel is selected, or the **RECALL** button is pressed.



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



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



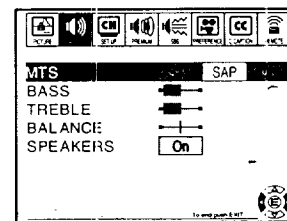
- 3 Press ◀ or ▶ to select "STR." If a stereo broadcast is received, "STR" will be displayed in yellow.

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

- 1 Follow steps 1 and 2 above.

- 2 Press ◀ or ▶ to select "SAP." You will hear only the second language from the left and right speakers.



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.

Notes:

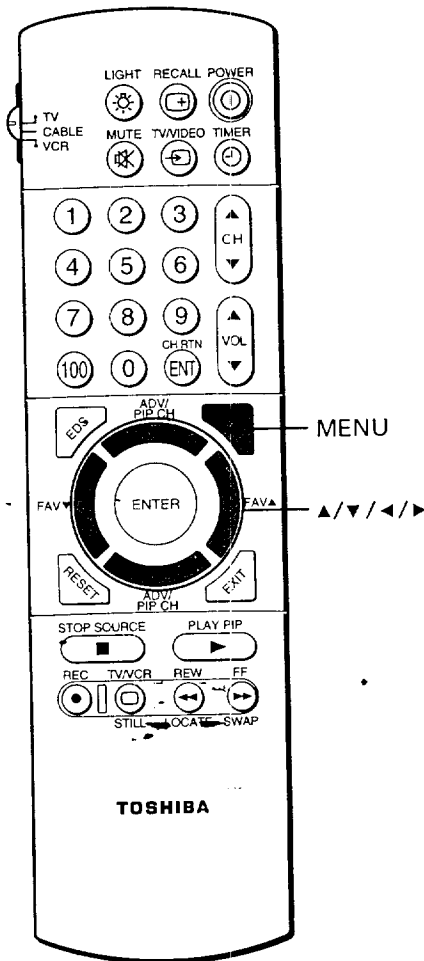
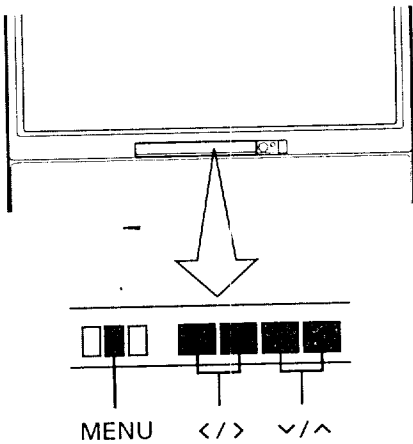
- Be sure to select the "STR" mode if the broadcast is in stereo.
- The MTS function is not available while in VIDEO mode.

BASIC OPERATION

Enhancing the Surround Sound Effect

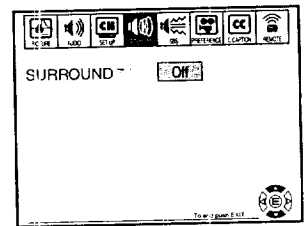
This TV allows you to activate or deactivate the stereo surround effect.

To activate the Surround sound function

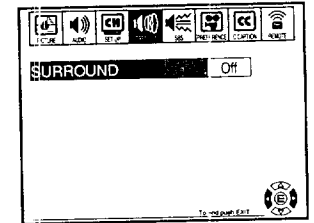


1 Select the "STR" (stereo) mode following steps 1 through 3 on the previous page.

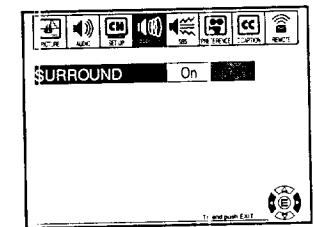
2 Press **MENU**, then press \leftarrow or \rightarrow until the PREMIUM menu appears.



3 Press \uparrow or \downarrow to select "SURROUND."



4 Press \leftarrow or \rightarrow to highlight "On."



To deactivate the Surround sound function
Select "Off" in step 4 above.

NOTE:

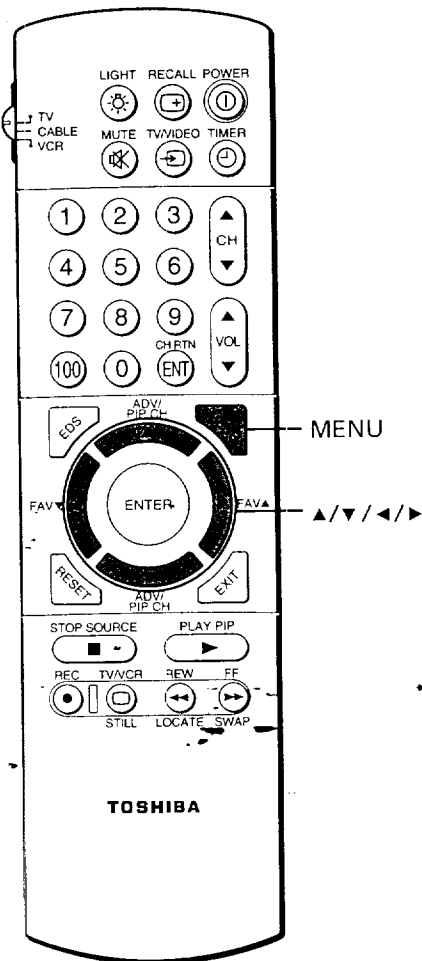
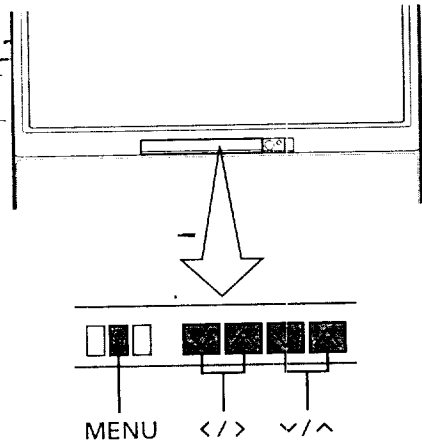
Normally you can leave the MTS function set to "STR" and the SURROUND sound function set to "On". The TV will automatically produce either Surround, stereo or monaural, whichever is broadcast.

ADVANCED OPERATION

Operating the Sub-Bass System

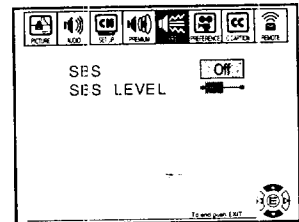
- The Sub-Bass System allows you to improve bass performance (even when the sound volume is low).

To operate the Sub-Bass System

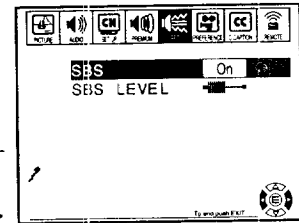


To activate the Sub-Bass System

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



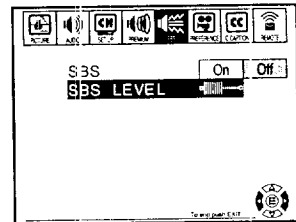
- 2 Press **▲** or **▼** until "SBS" is highlighted.



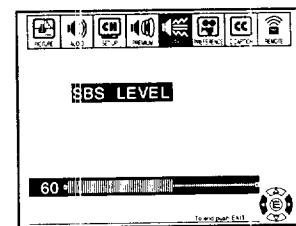
- 3 Press **◀** or **▶** to select "On."

To adjust the SBS level

- 1 Select "SBS LEVEL" in the SBS menu.



- 2 Press **◀** or **▶** to adjust the SBS level.



To deactivate the Sub-Bass System function

Select "Off" in step 3 above.

Note:

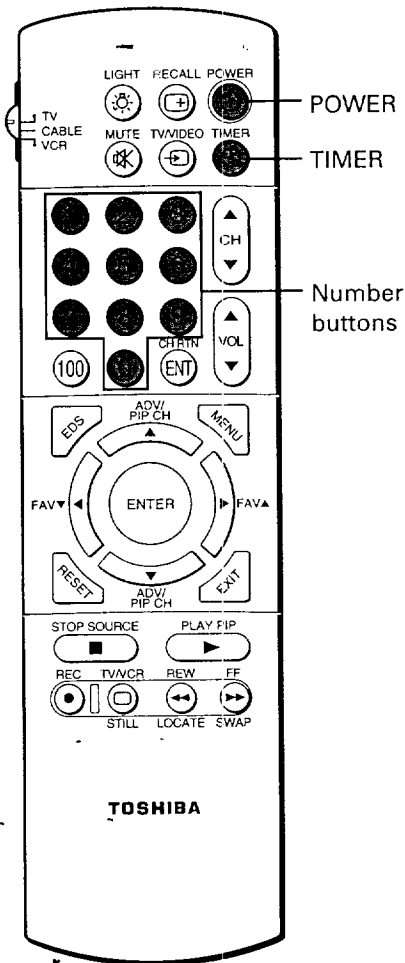
The Sub-Bass System signal does not pass through the "VARIABLE AUDIO OUTPUT" jacks. (See page 55.) However, the above on-screen displays will appear when the buttons are pressed.

ADVANCED OPERATION

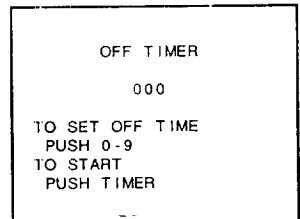
Setting the OFF Timer and the Clock

- 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).

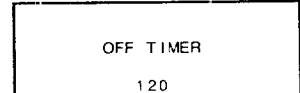
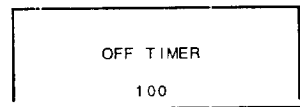
To set the OFF timer



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

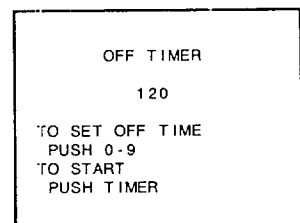


2 Press any two **Number buttons** to enter the length of time you want the TV to stay on. The remaining number(s) to be adjusted will flash continuously.



Example: 120 minutes
Press 1, then 2.

3 Press **TIMER** again to start the timer. The display color will change from magenta to cyan, then the display will go off.

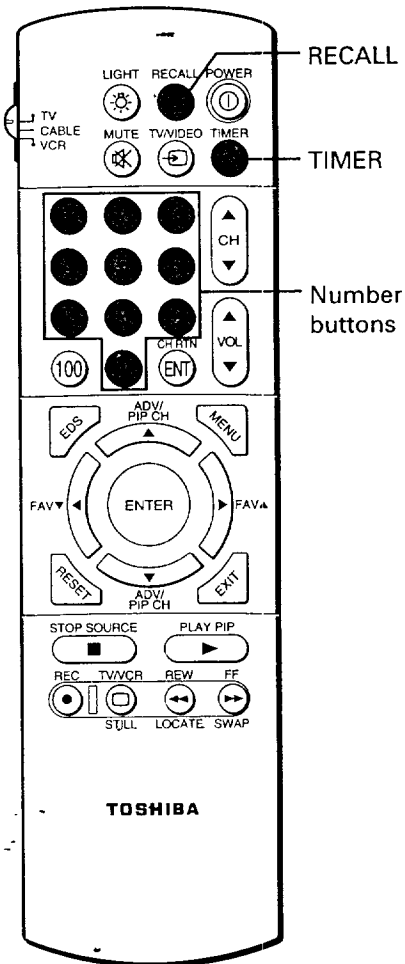


To cancel the OFF timer

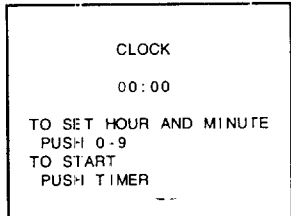
Press **POWER** twice, once to turn the TV off and once to turn it on again.

- To display the time remaining, press **TIMER once**. The remaining time will be displayed on the screen. To close the display, press **TIMER two more times**.

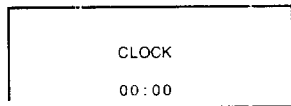
To set the clock



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

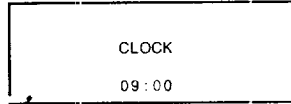


- 2 Press four **Number buttons** to enter the correct time.
The remaining number(s) to be adjusted will flash continuously.

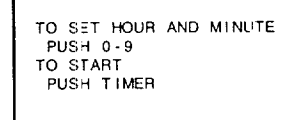
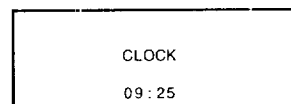


Example: To set 9:25 p.m.
Press 0, 9, 2 and 5.

- The clock operates on a 12 hour-cycle.*



- 3 Press **TIMER** to start the clock.
The display color will change from magenta to cyan, then the display will go off.



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.")

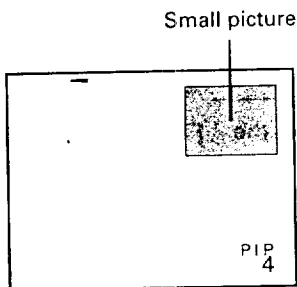
Watching Picture-in-Picture

- 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:

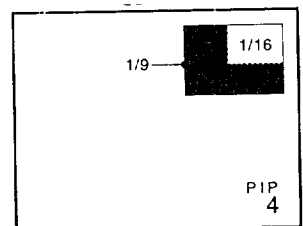
- Signal sources input through the ANT-2 terminal cannot be displayed as a small picture.



To display a TV broadcast picture as a small picture

- 1 Turn on the TV and select the desired program.

- 2 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.



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

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

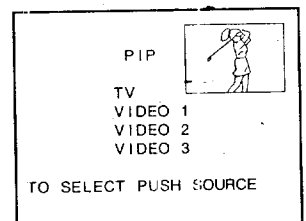
To display a picture from an external source as a small picture

Connect the external source equipment for the small picture. (For connections, see pages 50 – 54.)

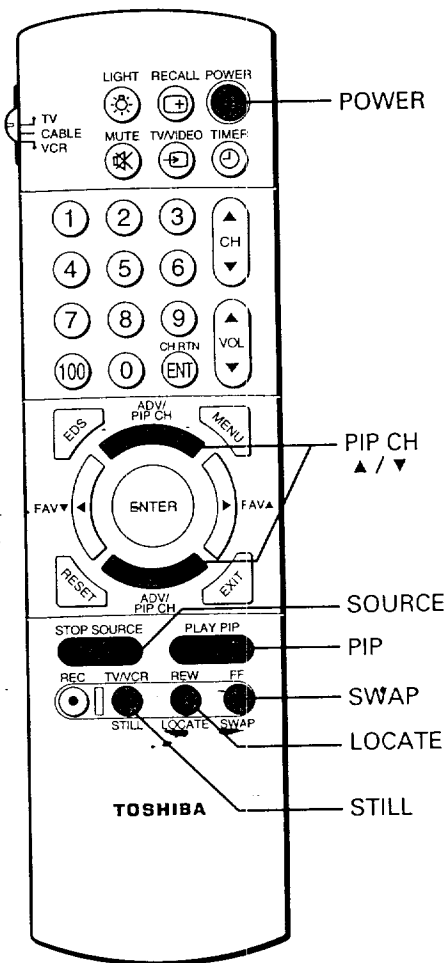
- 1 Turn on the TV, and select the desired program.

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

- 3 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 magenta.



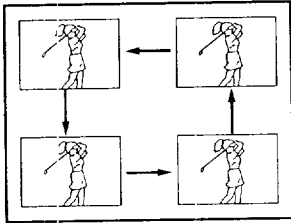
ADVANCED OPERATION



To use advanced functions

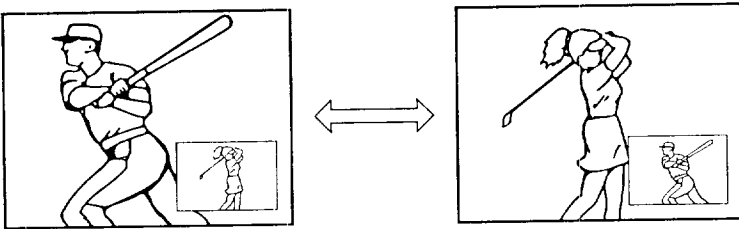
To change the position of the small picture

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



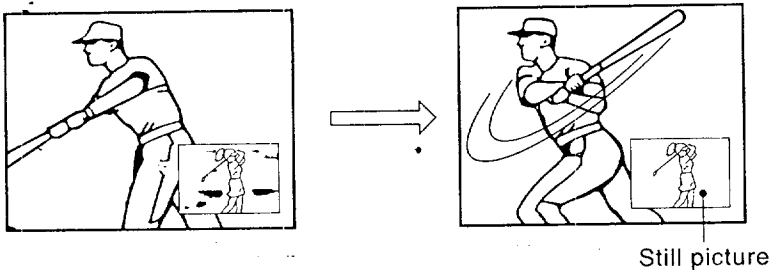
To switch the main and small pictures

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, 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, computer display or videogame unattended.

ADVANCED OPERATION

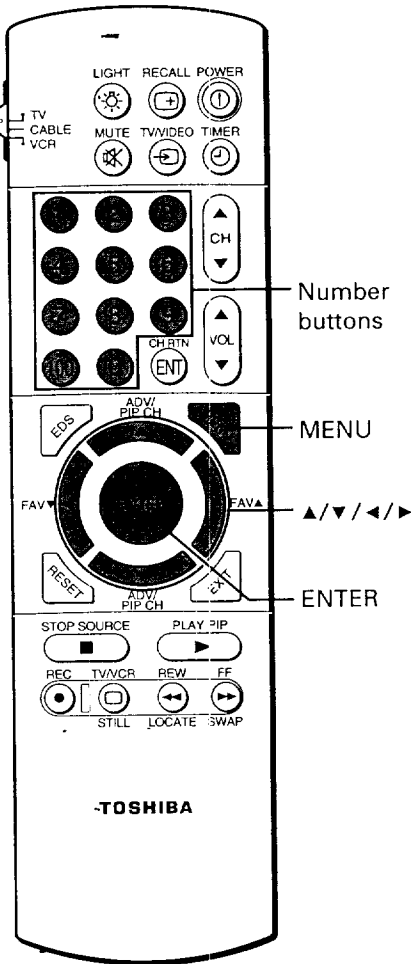
NOTE:

When the color difference input jacks (Cr, Cb) are connected, the PIP function is restricted as follows: When the main picture is in "TV" mode, "VIDEO 2" mode cannot be selected as a window (PIP) picture. When the main picture is in "VIDEO 2" mode, the PIP button is not available.

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



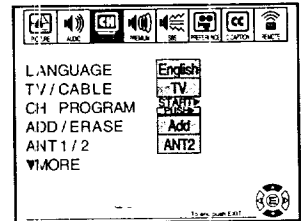
ADVANCED OPERATION

Number buttons

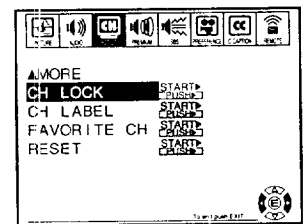
MENU

ENTER

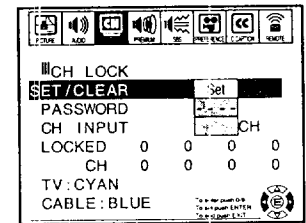
1 Press **MENU**, then press ◀ or ▶ until the SET UP menu appears.



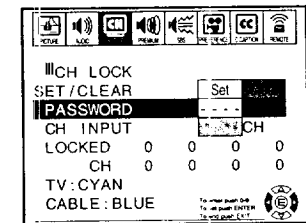
2 Press ▲ (or ▼) until "CH LOCK" is highlighted.



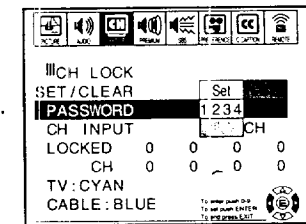
3 Press ◀ or ▶ to display the CH LOCK menu. "SET/CLEAR" will be highlighted. Press ◀ or ▶ to select "Set."



4 Press ▼ until "PASSWORD" is highlighted.

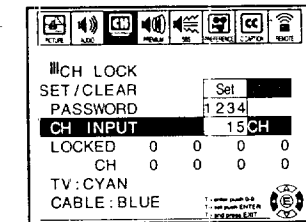


5 Press the **Number buttons** (0-9) to enter a 4-digit code. The numbers you enter will replace the dashes in the display. Pick a number that is easy to remember.



Example: To enter "1234".
Press 1, 2, 3, and 4 in order.
1 → 12 → 123 → 1234

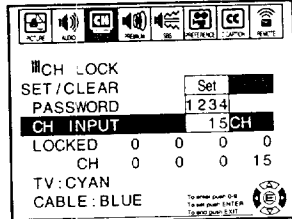
6 Press ▼ until "CH INPUT" is highlighted, then press the **Number buttons** (0-9, 100) to enter the channel number.



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)

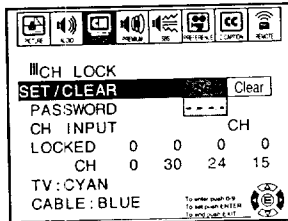
7 Press ENTER.



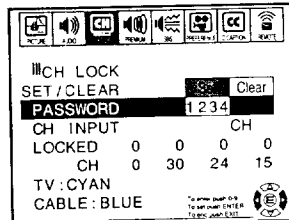
8 Repeat steps 6 and 7 for other channels.

To unlock channels

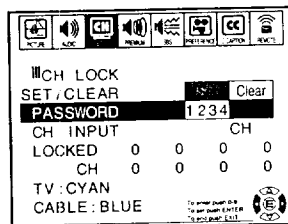
1 Select CH LOCK in the SET UP menu, then press ◀ or ▶ to select "Clear."



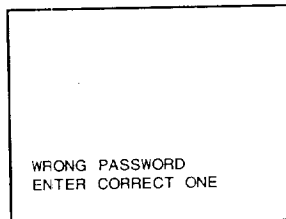
2 Press ▼ until "PASSWORD" is highlighted, and enter the 4-digit code used to lock out the channels with the Number buttons (0-9).



3 Press ENTER.



If a wrong code has been entered
These messages appear. Try to enter the correct code again.

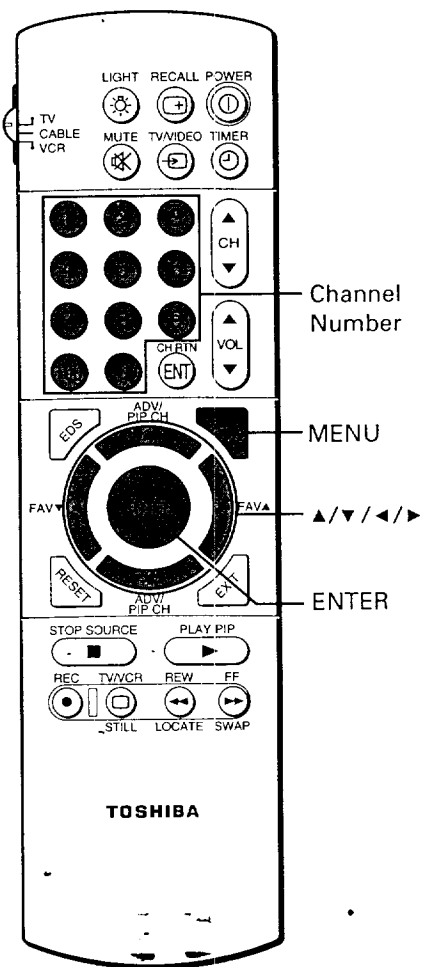


-If you want to know the channels you have locked out
Call up the CH LOCK menu.

Labeling Channels

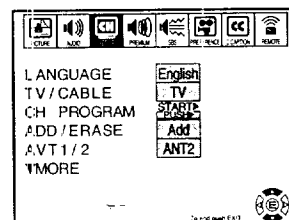
- This feature allows you to enter a 4 letter channel identifier of your choice that will appear over the channel number display. The label can be anything you want (for example the station call letters).
- The label you set will appear when you turn the TV on, select a channel, or press the **RECALL**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

To program channel labels

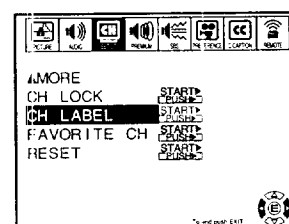


1 Press **MENU**, then press ◀ or ▶ until the SET UP menu appears.

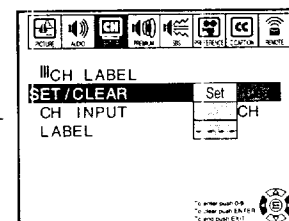
Example: To assign "ABCD" to channel 4.



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

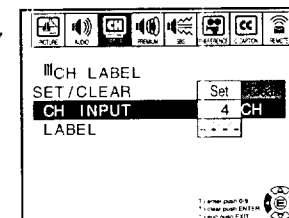


3 Press ◀ or ▶ to display the CH LABEL menu. "SET/CLEAR" will be highlighted.

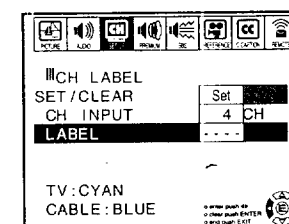


4 Press ◀ or ▶ to select "Set."

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



6 Press ▼ until "LABEL" is highlighted.



ADVANCED OPERATION

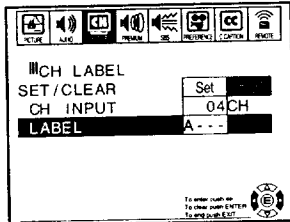
To program channels labels (continued)

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

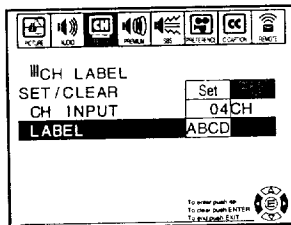
Letters of the alphabet, numbers and other graphic symbols are available for labeling.

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

▶ button → -- → 0 → 9 → A → Z → [] → +
 ◀ button → -- → + → [] → Z → A → 9 → 0



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

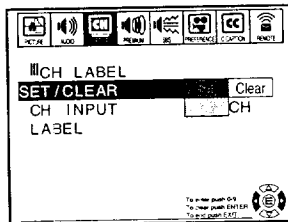


9 To label another channel, repeat steps 5 through 8. You can label 32 channels.

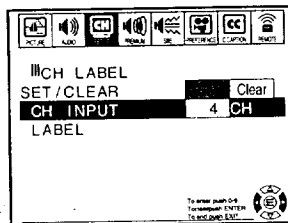
To clear the channel label

1 Select CH LABEL in the SET UP menu.

2 Press ◀ or ▶ to select "Clear."



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



4 Press ENTER.

5 Repeat steps 3 and 4 for other channels.

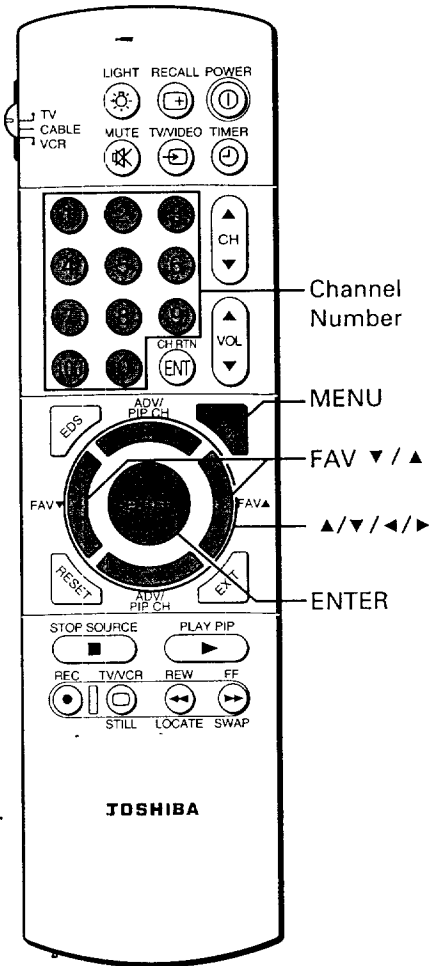
Programming Your Favorite Channels

- The Favorite Channel Programming feature allows you to program up to 12 of your favorite channels.

Once programmed, you can use **FAV** ∇ / \blacktriangle on the Remote Control to scan through only your favorite channels, skipping other channels you do not normally view.

To program your favorite channels

ADVANCED OPERATION



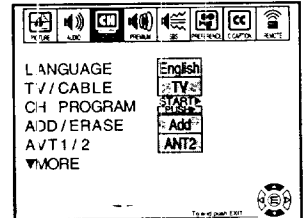
Channel Number

MENU

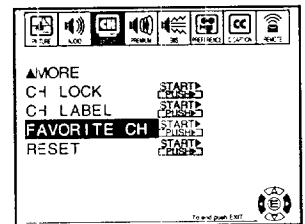
FAV ∇ / \blacktriangle

ENTER

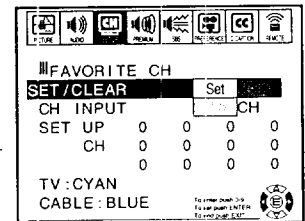
1 Press **MENU**, then press \blacktriangleleft or \blacktriangleright until the SET UP menu appears.



2 Press \blacktriangle (or \blacktriangledown) until "FAVORITE CH" is highlighted.

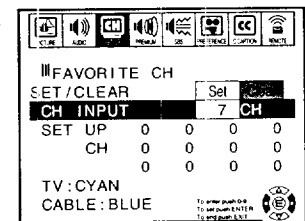


3 Press \blacktriangleleft or \blacktriangleright to display the FAVORITE CH menu. "SET/CLEAR" will be highlighted.

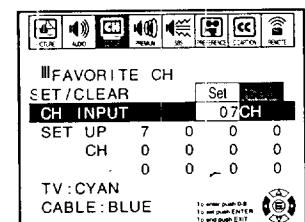


4 Press \blacktriangleleft or \blacktriangleright to select "Set."

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



6 Press **ENTER**.



7 Repeat steps 5 and 6 for other channels.

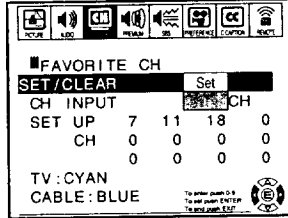
To select your favorite channels

Press **FAV** ∇ / \blacktriangle .

When you want to access all the channels you programmed in the TV's memory, press **CHANNEL** \blacktriangle / \blacktriangledown .

To clear the channels you have programmed

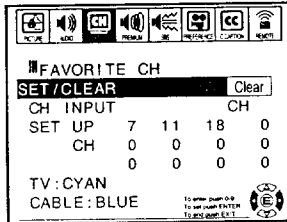
- 1 Select FAVORITE CH in the SET UP menu.



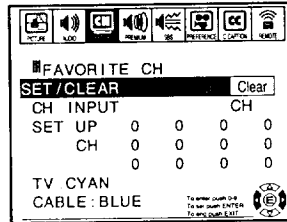
Note:

FAV ▼ / ▲ will function only after you have programmed your favorite channels.

- 2 Press ◀ or ▶ to select "Clear."

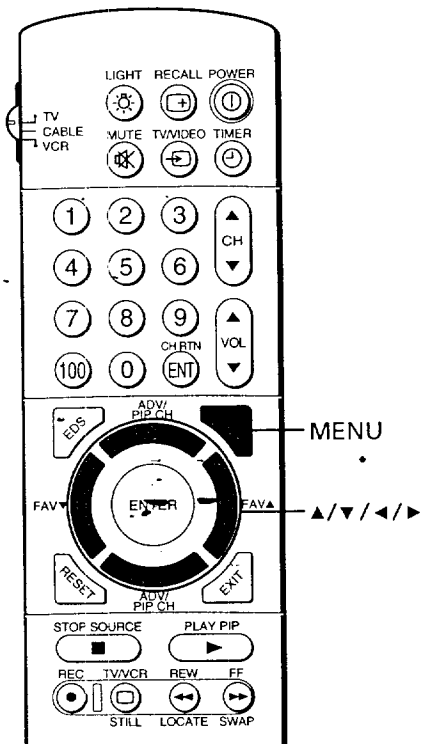
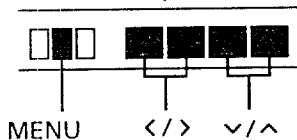
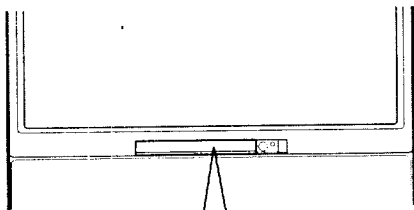


- 3 Press ENTER.
All the favorite channels you have programmed are cleared.



Operating the Closed Captioning Feature

To display Closed Captioning

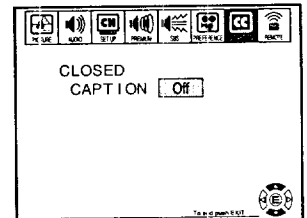


To view captions

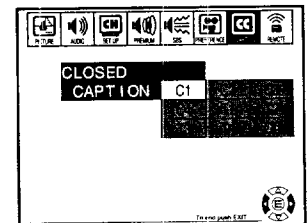
Closed captioning is a printed version of the dialogue, narration, and/or sound effects of a TV program. Captions will appear at either the top or bottom of the screen during captioned broadcasts as shown. Captioning is especially helpful for hearing impaired individuals.

1 Select the desired program.

2 Press **MENU**, then press **◀** or **▶** until the **CLOSED CAPTION** menu appears.



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



4 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.

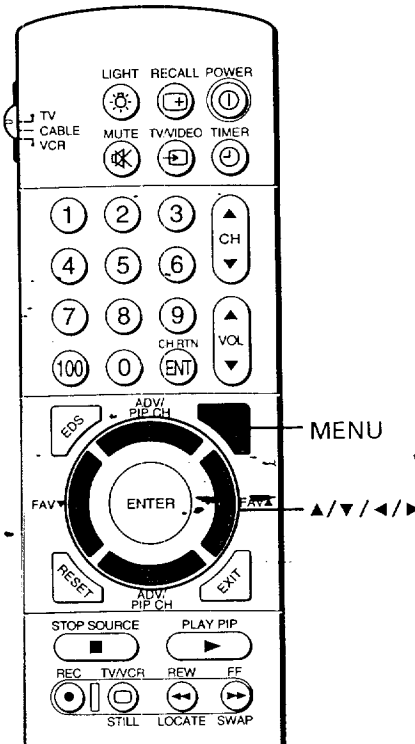
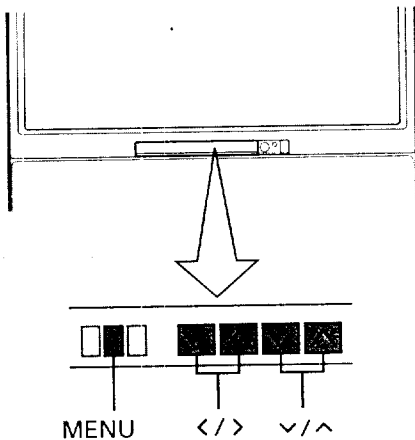
Note:

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

	Temps		Current Weather
	F	C	
LONDON	51	11	Clear
MOSCOW	57	14	Cloudy
PARIS	53	12	Clear
ROME	66	19	Cloudy
TOKYO	65	18	Rain

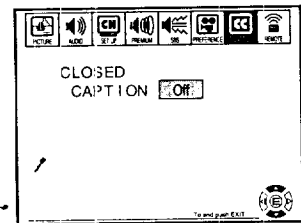


To view text

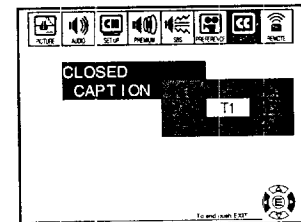
Text is information presented using all of the television screen. It is usually not related to the current program. For example, it could be a listing of closed captioned programs, news, weather information, or stock market reports.

1 Select the desired program.

2 Press **MENU**, then press **◀** or **▶** until the **CLOSED CAPTION** menu appears.



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



4 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

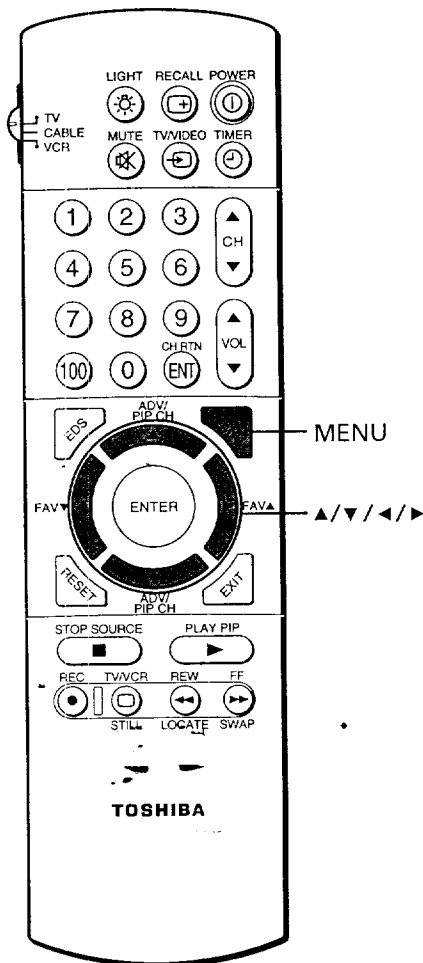
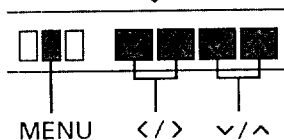
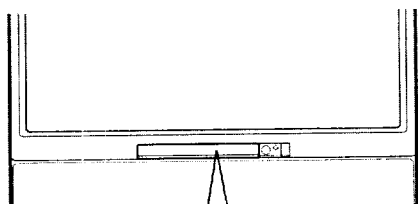
Select "Off" in step 4 above.

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.

Flesh Tone/Noise Reduction

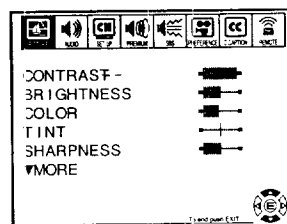
To activate the Flesh Tone and Noise Reduction Functions



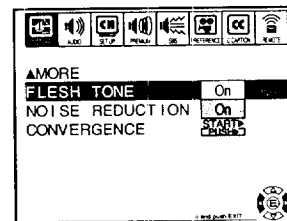
Flesh Tone Function

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

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



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

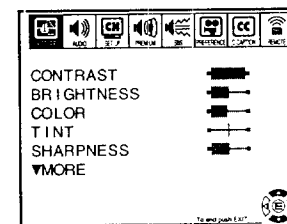


- 3 Press ◀ or ▶ to select **"On."**

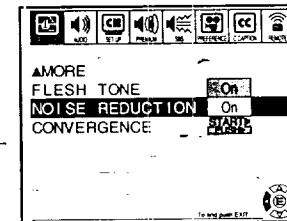
Noise Reduction Function

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 disk damaged by repeated use.

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



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



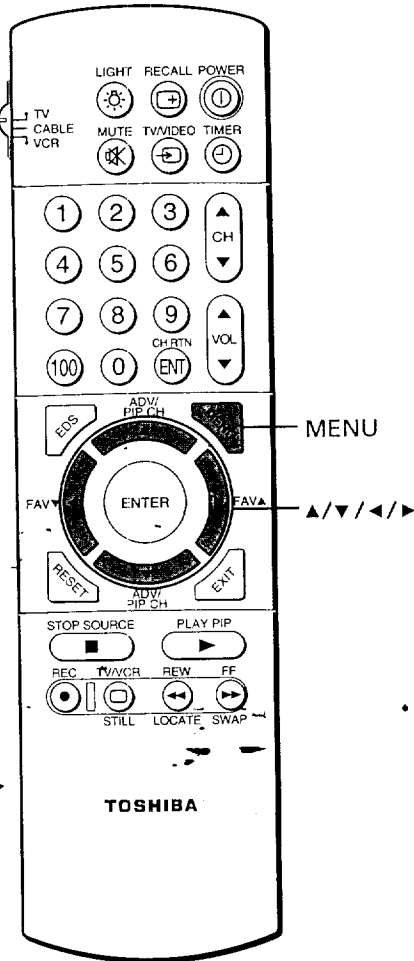
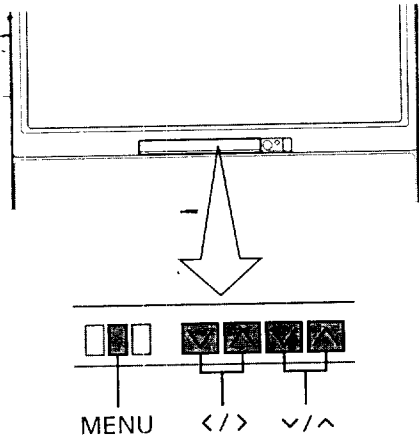
- 3 Press ◀ or ▶ to select **"On."**

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

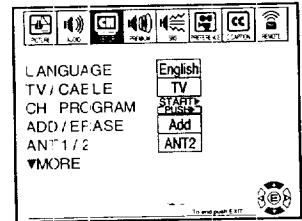
Changing the On-screen Display Language

- Three different languages (ENGLISH, FRENCH and SPANISH) are available for the on-screen displays (adjustment menus, and messages), and you can choose the desired language.

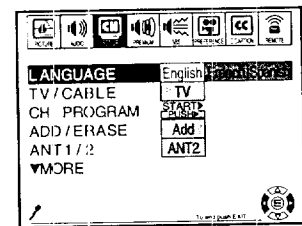
To select a language for the on-screen displays



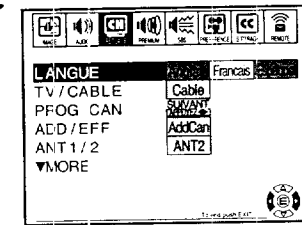
1 Press MENU, then press ◀ or ▶ until the SET UP menu appears.



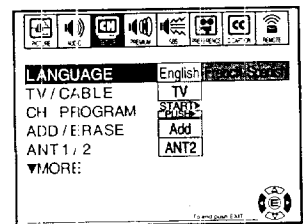
2 Press ▲ (or ▼) until "LANGUAGE" is highlighted.



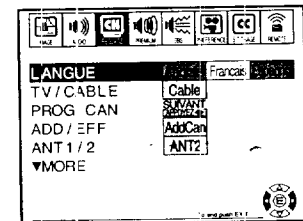
3 Press ◀ or ▶ to select the language you want.



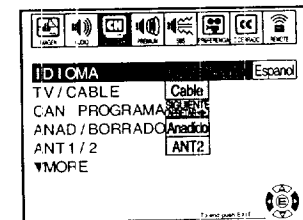
"ENGLISH"



"FRENCH"



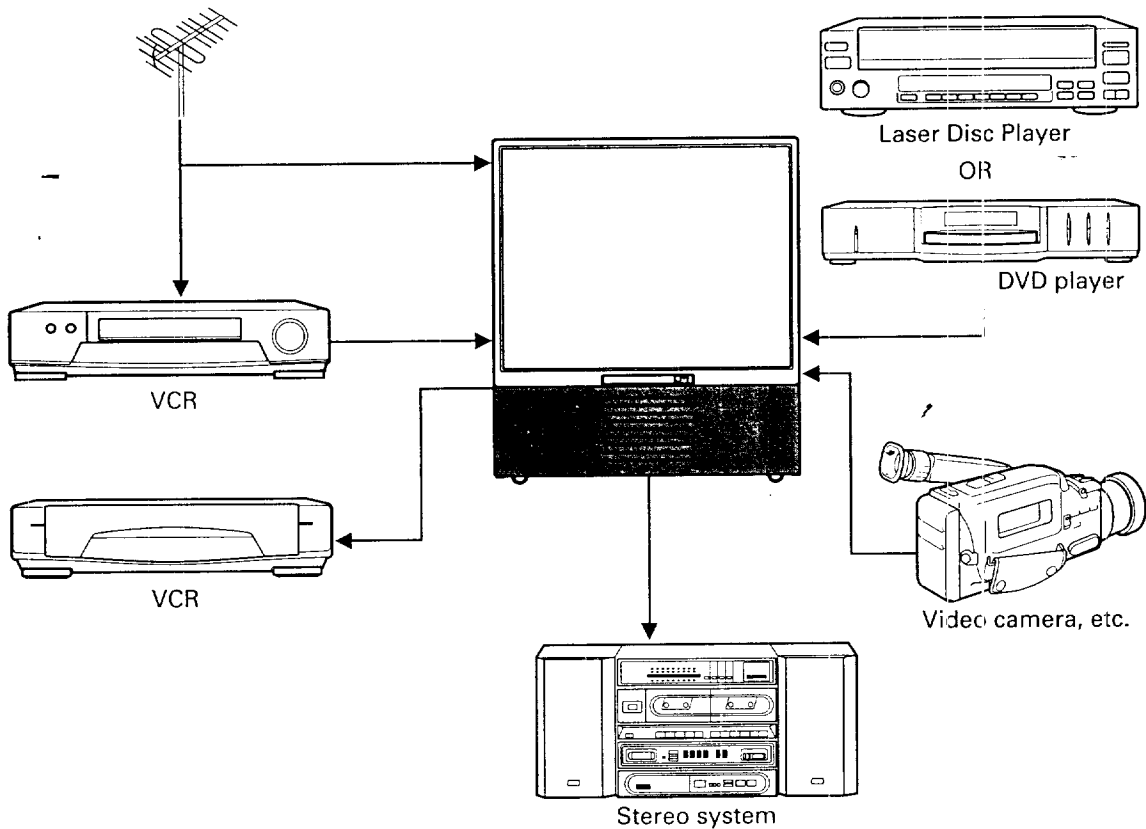
"SPANISH"



ADVANCED OPERATION

Connecting External Equipment

To connect video/audio equipment



Notes:

- Refer to the owner's manual of the equipment to be connected as well.
- When connecting other equipment to the TV, first turn off all main power switches.
- If you connect monaural sound equipment, connect the audio output of the equipment to the L/MONO jack of the VIDEO 1, VIDEO 2 or VIDEO 3 INPUT jacks on the TV.
- The S-VIDEO jack accepts the SEPARATED Luminance/Chrominance (Y/C) signals conforming to the NTSC standard.

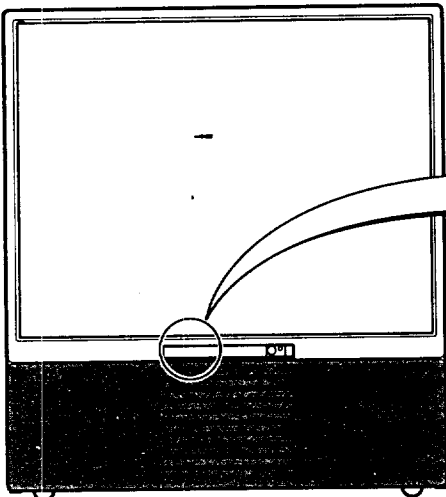
CONNECTING OTHER EQUIPMENT

Connecting External Equipment (continued)

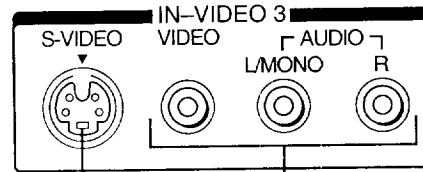
Monitor panel

Illustrations represent TP55G60.

TV front



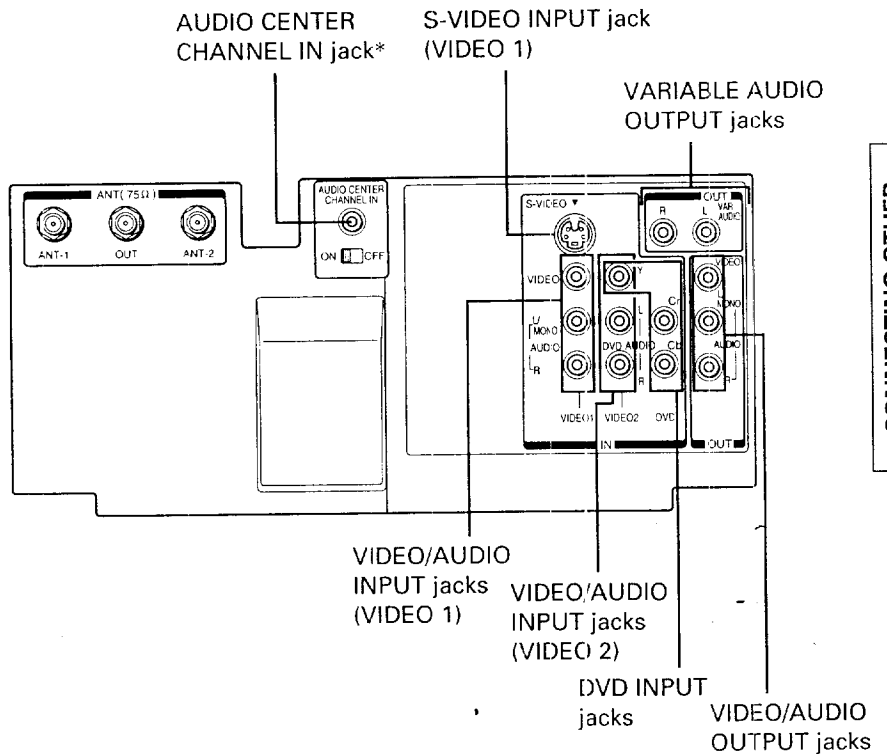
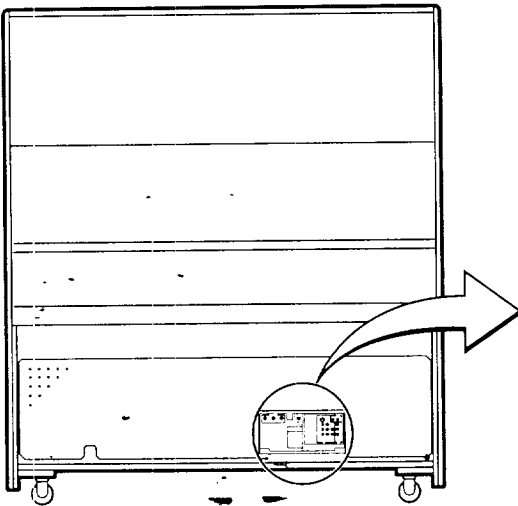
Behind the door



VIDEO/AUDIO INPUT jacks (VIDEO 3)

S-VIDEO INPUT jack (VIDEO 3)

TV rear

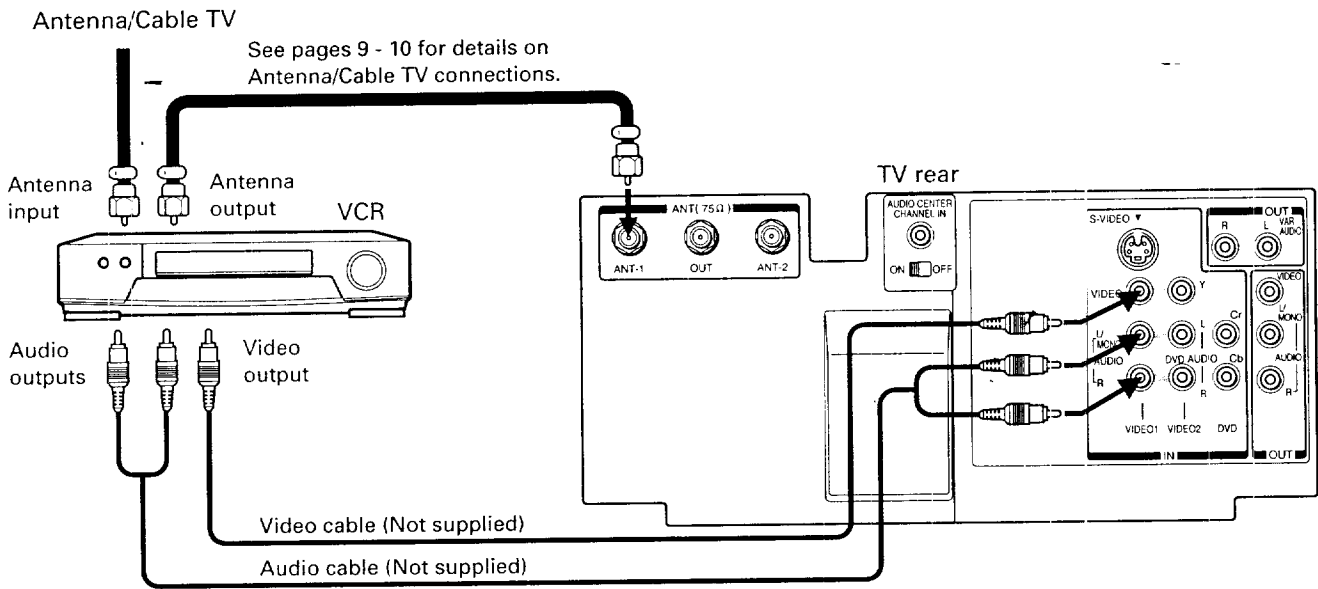


* The AUDIO CENTER CHANNEL IN jack is only for TP55G60 and TP61G60.

Connecting External Equipment (continued)

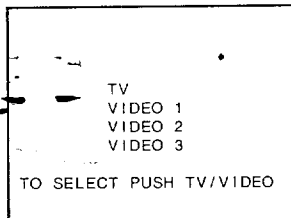
To connect a standard VCR

Connect the VIDEO 1 or VIDEO 2 INPUT 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-or VIDEO-3 source will be selected in order. The selected source will be displayed in magenta.



Note on the VIDEO 2 INPUT jacks

The VIDEO 2 INPUT 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 INPUT 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.

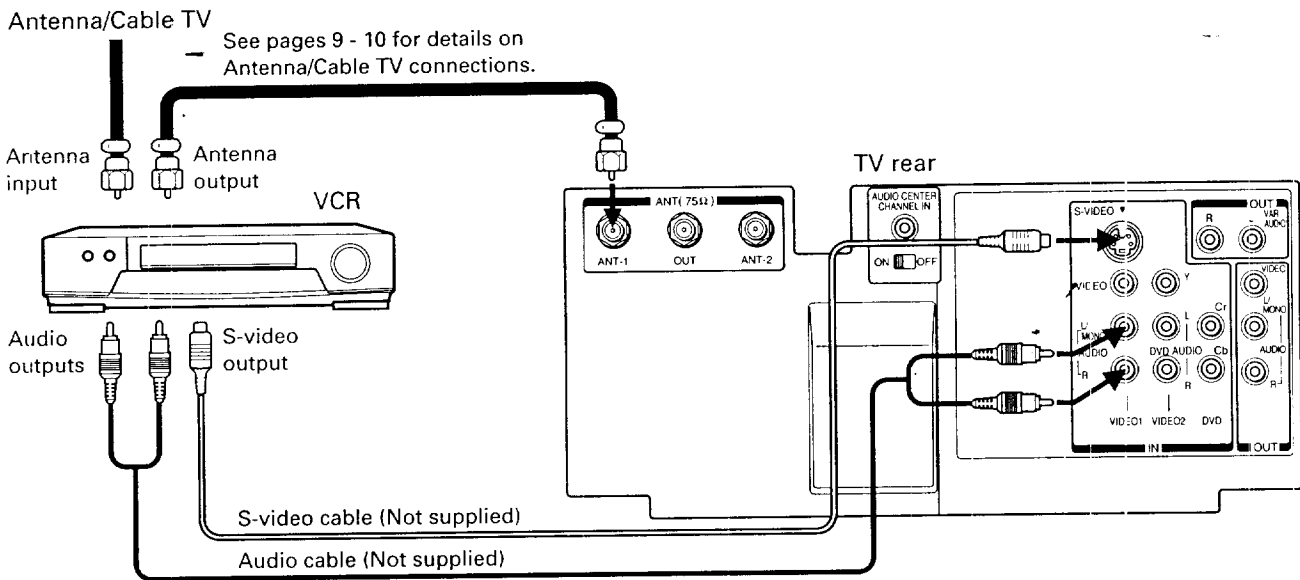
To view signals from equipment connected to the VIDEO 3 INPUT jacks, select "VIDEO 3."

Note:

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

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 TV rear, you must also connect the audio cables to the "VIDEO 1 INPUT" AUDIO jacks on the TV rear panel. The S-video cable supplies video signals only.



To select the video input source

- 1 Turn on the TV and the VCR.
- 2 Press **TV/VIDEO** on the Remote Control (or **ANT/VIDEO** on the TV) to select "VIDEO 1."
- 3 Operate your VCR normally.

Notes:

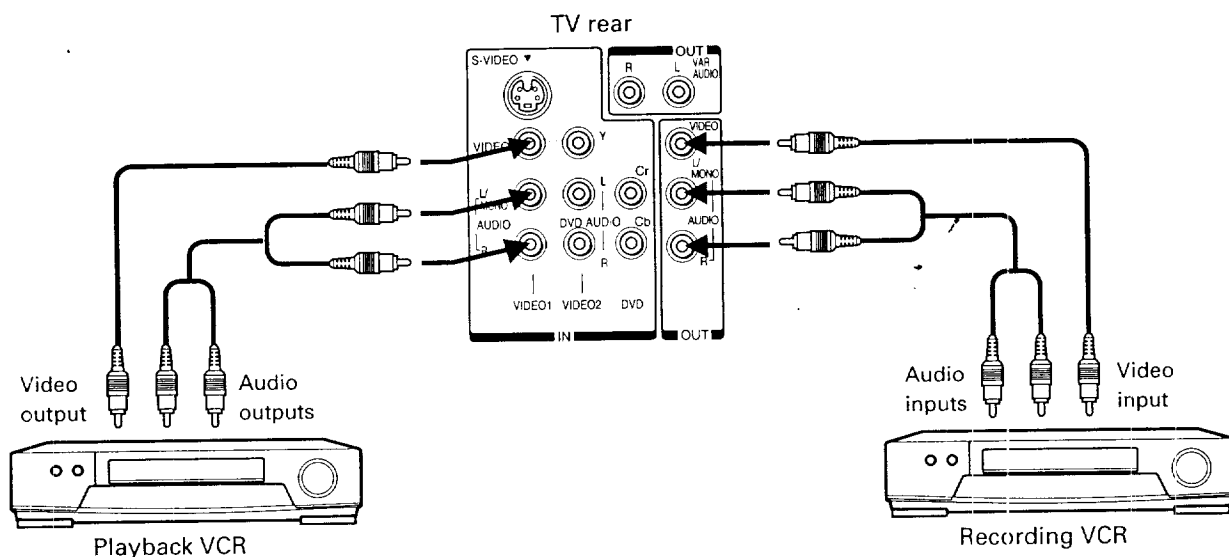
- When the S-video cable is connected to the S-VIDEO IN jack, the video cable (phono-type) should not be connected.
- The S-VIDEO jack accepts SEPARATED Luminance/Chrominance (Y/C) signals conforming to the NTSC standard.

Connecting External Equipment (continued)

To dub/edit video tapes using two VCRs

To connect equipment for dubbing/editing

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

- 1 Turn on the TV and both VCRs.
- 2 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.
- 4 You can view the video signal from the playback VCR on the TV screen while dubbing it onto the recording VCR.

CAUTION:

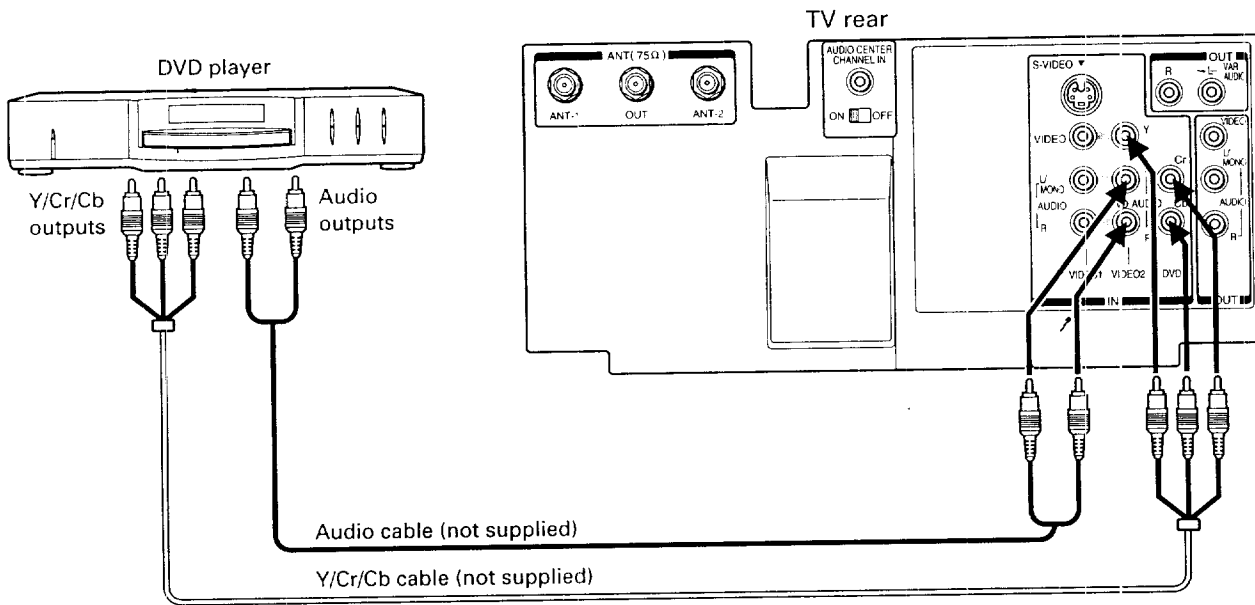
The unauthorized recording of television programs, video tapes and other materials may infringe upon the provisions of the copyright laws.

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.

To connect a DVD Player with ColorStream™ (Color Difference) VIDEO OUTPUT

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



To select the video input source

- 1 Turn on the TV and the DVD player.
- 2 Press **TV/VIDEO** on the Remote Control (or **ANT/VIDEO** on the TV) to select "VIDEO 2."
- 3 Operate your DVD player normally.

NOTE:

When the color difference input jacks (Cr, Cb) are connected, the PIP function is restricted as follows: When the main picture is in "TV" mode, "VIDEO 2" mode cannot be selected as a window (PIP) picture. When the main picture is in "VIDEO 2" mode, the PIP button is not available.

Connecting External Equipment (continued)

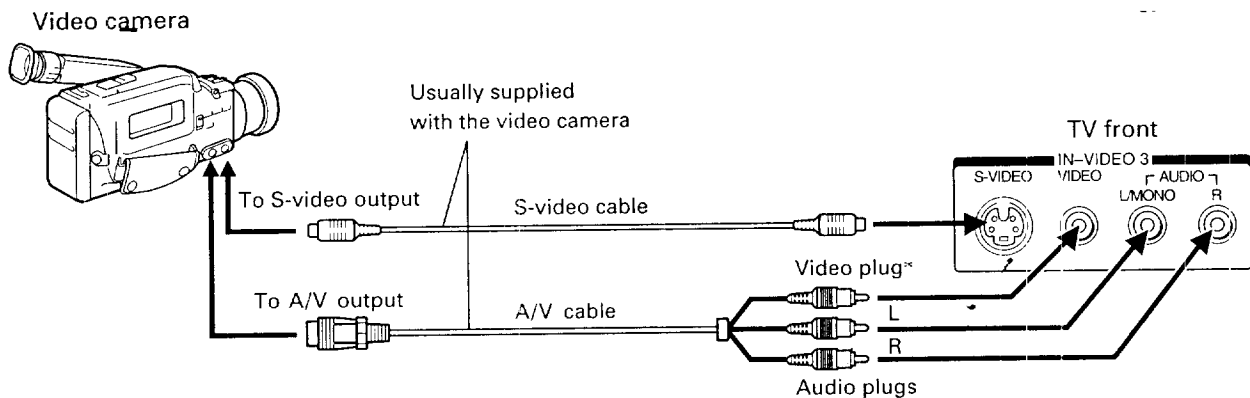
To connect a video camera

This connection allows you to view pictures from a video camera.

—If you have a video camera with an S-video jack, connect the S-video cable to the VIDEO 3 S-VIDEO INPUT jack.

—If you have a standard video camera, connect the video cable to the VIDEO 3 VIDEO INPUT jack.

With either video connection, you must connect the audio cables to hear the sound.



To select the video input source

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

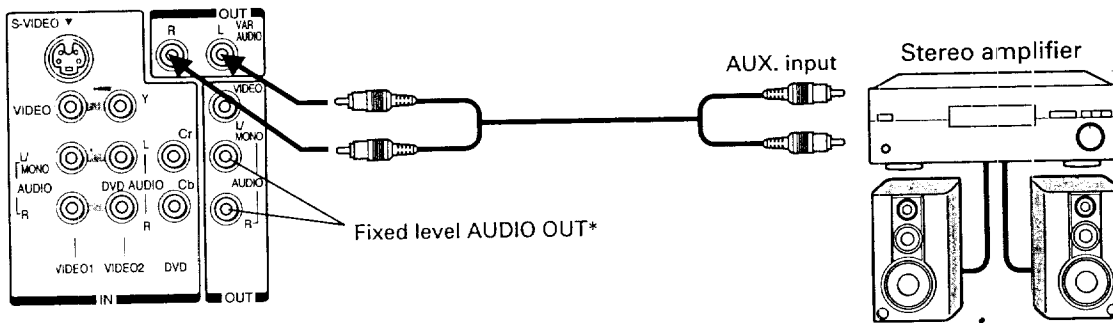
- 1 Turn on the TV and the video camera.
- 2 Press **TV/VIDEO** on the Remote Control (or **ANT/VIDEO** on the TV) to select "VIDEO 3."
- 3 Operate your video camera normally.

Notes:

- When the S-video cable is connected to the S-VIDEO INPUT jack, the video cable (*) should not be connected.
- If you connect a monaural video camera, connect the audio output to the L/MONO jack.

To connect an audio amplifier

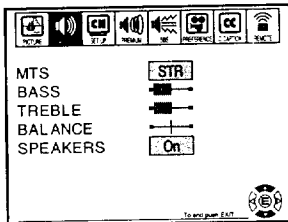
Connect the VARIABLE AUDIO OUT jacks to the auxiliary input jacks on the stereo amplifier. You can control the audio signal going to the audio equipment using the Remote Control for this TV.



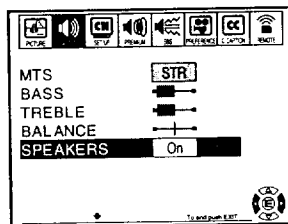
* The "fixed level" AUDIO OUT jacks are also available for connecting to an audio cassette recorder (or amplifier) to record audio from the TV. This constant audio signal is not affected by pressing the VOLUME buttons on the TV or the TV's Remote Control.

To turn off the built-in speakers

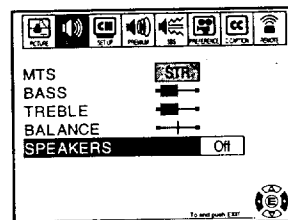
- 1 Press **MENU**, then press **◀** or **▶** until the **AUDIO** menu appears.



- 2 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.

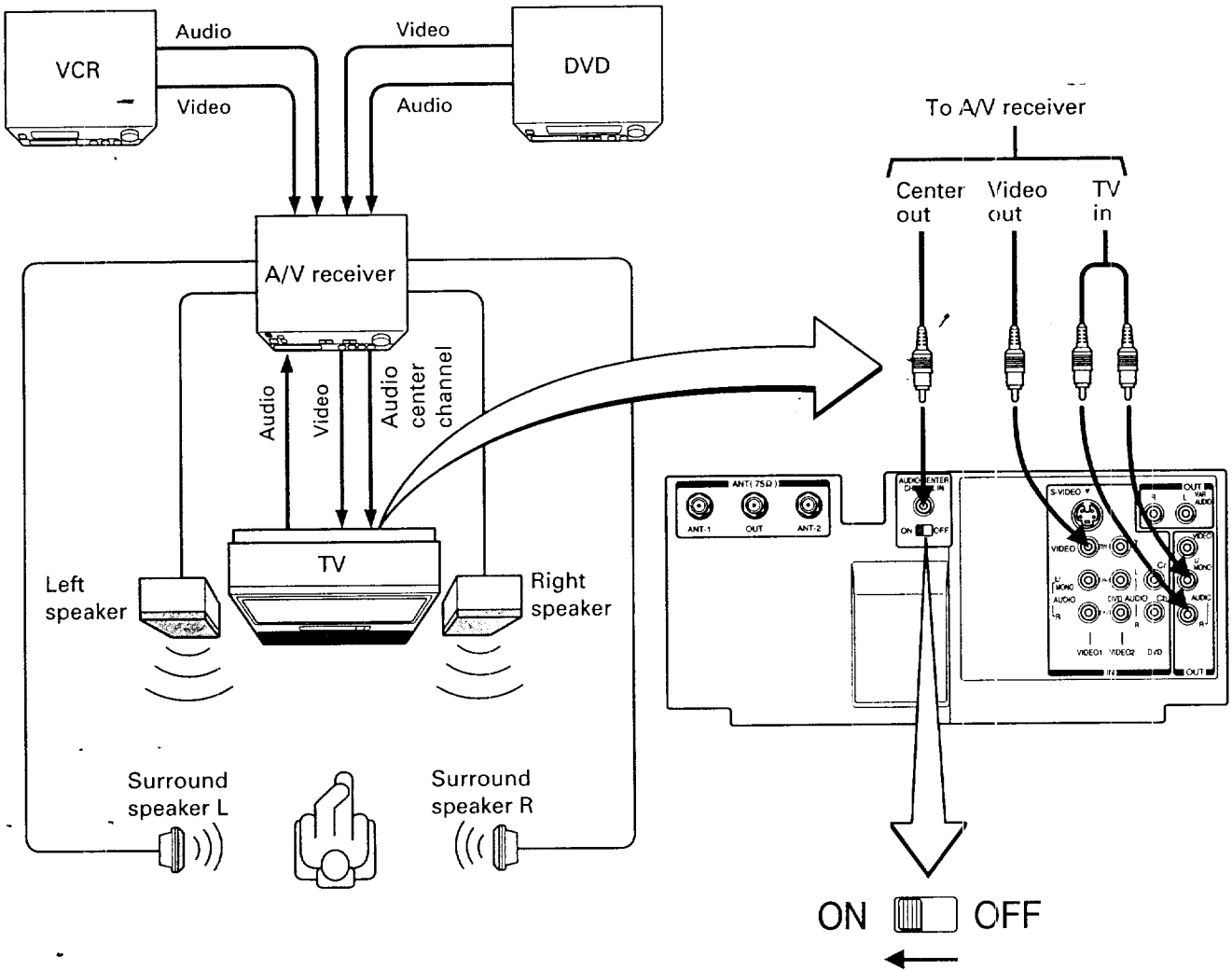
Connecting External Equipment (continued)

- 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.



CONNECTING OTHER EQUIPMENT

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.
- TP50G60 is not equipped with the AUDIO CENTER CHANNEL IN jack.
- * "Dolby Pro Logic" is a trademark of Dolby Laboratories Licensing Corporation.

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	TP50G60, TP50G60C: 180 W TP55G60/TP55G65: 184 W TP61G60: 184 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 3) 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 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 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 (For TP55G60 and TP61G60) 1 V(rms) (30% modulation equivalent, 10 kohm)

DIMENSIONS/MASS

	Dimensions (W/H/D)	Mass
TP50G60 TP50G60C	42-3/4 × 50-9/16 × 20-25/32 inches (1,086 × 1,284 × 528 mm)	253 lbs (115 kg)
TP55G60 TP55G65	46-3/4 × 53-9/16 × 22-7/16 inches (1,188 × 1,360 × 570 mm)	265 lbs (120 kg)
TP61G60	51-9/16 × 57-3/16 × 24-3/8 inches (1,310 × 1,452 × 620 mm)	286 lbs (130 kg)

SUPPLIED ACCESSORIES Remote Control with 2 size "AA" alkaline batteries

Design and specifications are subject to change without notice.

ADDITIONAL REFERENCE

Before Calling Service Personnel

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

	Solutions	Pages
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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 Units

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.

Products purchased in the U.S.A. and used in Canada are not covered by these warranties.
Products Purchased in Canada and used in the U.S.A. are not covered by these warranties.

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.

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

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

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

TEL: (514) 856-4100

VANCOUVER: 22171 FRASERWOOD WAY, RICHMOND, B.C. V6W 1J5, CANADA TEL: (604) 303-2500

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