

OWNER'S MANUAL

Projection Television

COLORSTREAM[®] SRS[™]
by SRS (C)[®]

43H71
53H71
61H71

Owner's Record

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

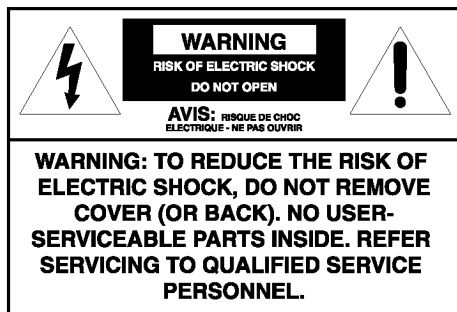
Model number: _____

Serial number: _____

Important Information

WARNING

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



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



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

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 ON THE POLARIZED PLUG.

ATTENTION

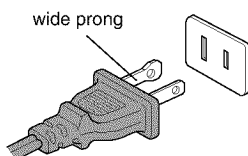
POUR PRÉVENIR LES CHOCS ÉLECTRIQUES NE PAS UTILISER CETTE FICHE POLARISÉE AVEC UN PROLONGATEUR, UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ÊTRE INSÉRÉS À FOND SANS EN LAISSER AUCUNE PARTIE À DÉCOUVERT.

NOTICE OF POSSIBILITY OF CRT BURN-IN

Avoid displaying stationary images on the TV screen for extended periods of time. Stationary patterns generated by letterbox/compression displays, picture-in-picture (PIP) displays, computer displays, video games, stock market reports, and so forth, can become permanently engrained on the picture tube. This damage is not protected by your warranty because it is the result of misuse. If you use your TV to display still images, reduce the brightness and contrast settings. Never leave a letterbox/compression, PIP, computer, or video game display unattended.

CAUTION

The plug has one prong wider than the other and will fit only one way into a standard electrical outlet (120 volt AC, 60 Hz). If the plug does not fit into the outlet, try turning it around. If the plug still does not fit, the outlet is probably non-standard and must be replaced by a qualified electrician. Do not tamper with the plug or try to force it into a non-standard outlet.



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, which provides guidelines for proper grounding, and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Precautions

Installing your TV

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

Using your TV

- Do not stand or climb on the TV.
- Do not put any heavy object on top of the TV.
- Do not place containers with liquids such as drinks or cosmetics on the TV. If any foreign material or water leaks into the TV, unplug the AC cord and contact your dealer.
- If the room temperature suddenly rises, 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.
- Avoid displaying stationary images on your TV screen for extended periods of time. Stationary patterns generated by a PIP/double-window display, computer displays, video games, stock market reports, etc., can become permanently engrained on the picture tube. This damage is not protected by your warranty because it is the result of misuse. If you wish to use your TV to display still images, reduce brightness and contrast settings. Never leave a PIP/double-window, computer, or video game display unattended.
- 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.

Cleaning your TV

- Clean the TV with a soft, dry cloth. Never use strong solvents such as thinner or benzine which might damage the finish of the cabinet. If the cabinet is very dirty, use a damp cloth to wipe the cabinet clean, then finish with a dry cloth.

Use this TV set with the Toshiba stand listed on page 48 only. Use with other stands may result in instability, causing possible injury or death.

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Introduction

Welcome to Toshiba

Congratulations! You have purchased one of the finest projection TVs on the market. The goal of this manual is to guide you through setting up and operating your Toshiba TV as quickly as possible.

This manual applies to models 43H71, 53H71, and 61H71. Before you start reading, check the model number by looking at the rear of the TV.

Instructions in this manual are based on using the remote control. You can also use the controls on the TV front panel if they have the same name as those on the remote control.

Please read all the safety and operating instructions carefully, and keep the manual for future reference.

Please Note

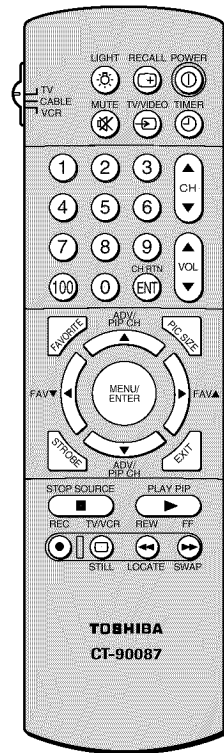
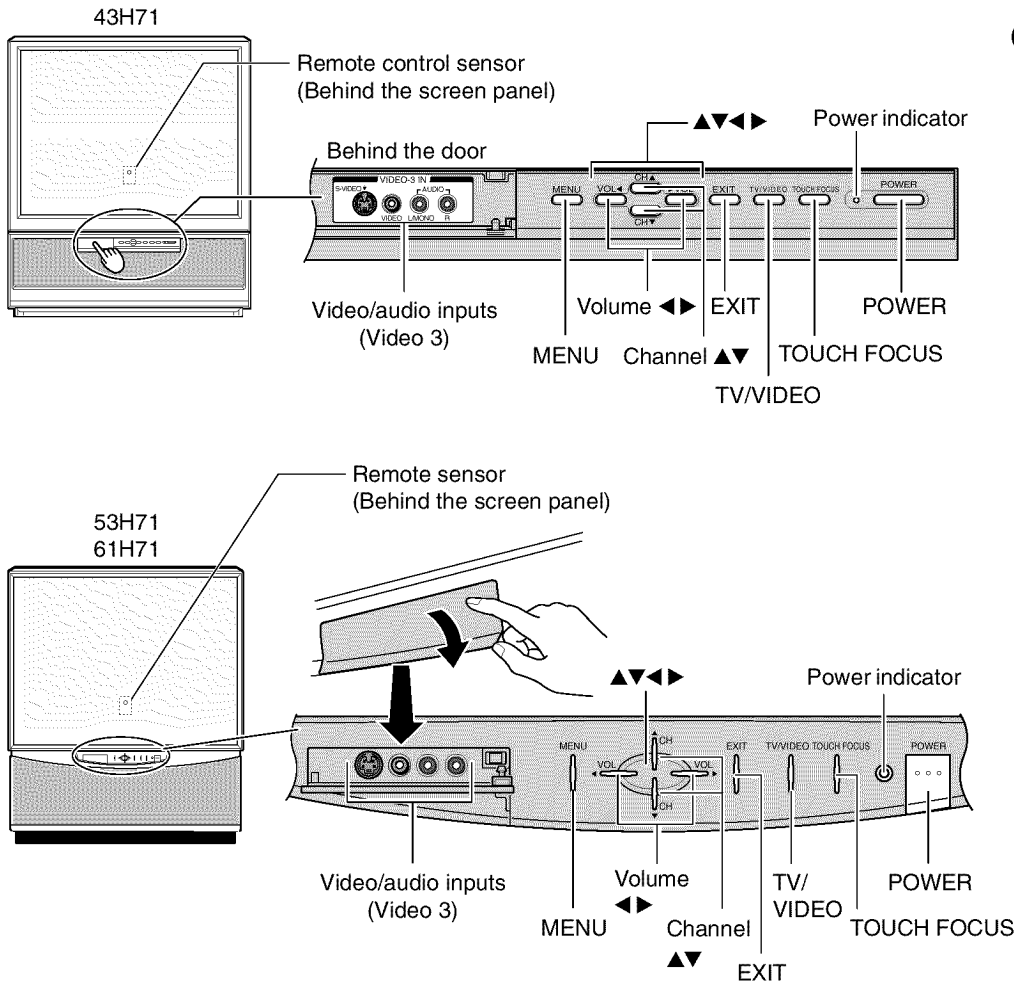
On some models, the SET UP menu automatically appears on-screen the first time the TV is turned on.

To change the menu settings, see "Setting Up Your TV" on page 17.

To close the menu, either press EXIT or turn off the TV.

Exploring your new TV

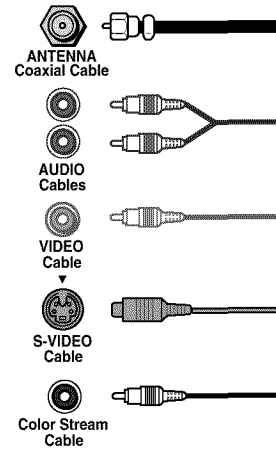
You can operate the TV using the buttons on the front panel or remote control. The back panel and front panel (behind the door) provide all the terminal connections for connecting other equipment to the TV (see "Connecting your TV" on page 5).



Connecting your TV

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

- A coaxial cable is the standard cable that comes in from your antenna or cable converter box. Coaxial cables use “F” connectors.
- Audio and video cables are usually color-coded according to use: yellow for video and red and white for audio. The red audio cable is for the stereo right channel, and the white audio cable is for the stereo (or mono) left channel. On the rear panel of the TV, the terminals are color-coded in the same manner as the cables.
- S-video cables provide better picture performance. S-video cables can only be used with S-video compatible components.
- ColorStream® (component video) cables come in sets of three and provide the best picture performance. ColorStream cables can only be used with ColorStream-compatible components.



Caution:

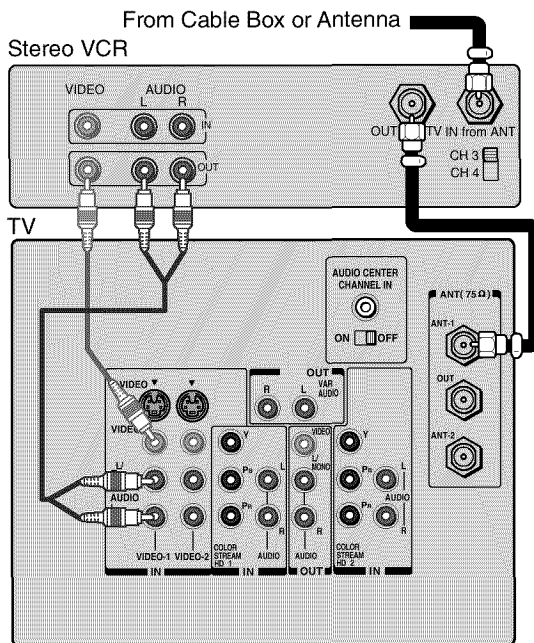
Do not plug the TV in until you have finished connecting all equipment.

Connecting a VCR

This connection allows you to watch local channels and video programs, play or record on the VCR while watching TV, and record from one channel while watching another channel.

You will need:

- one coaxial cable
- one pair of audio cables (one single audio cable for a mono VCR)
- one video cable (one S-video cable for an S-VHS VCR)



Note:

If you have a mono VCR, connect L/Mono to VCR Audio OUT using only one audio cable.

If you have an S-VHS VCR, use an S-video cable (in the S-video jacks) instead of the regular video cable.

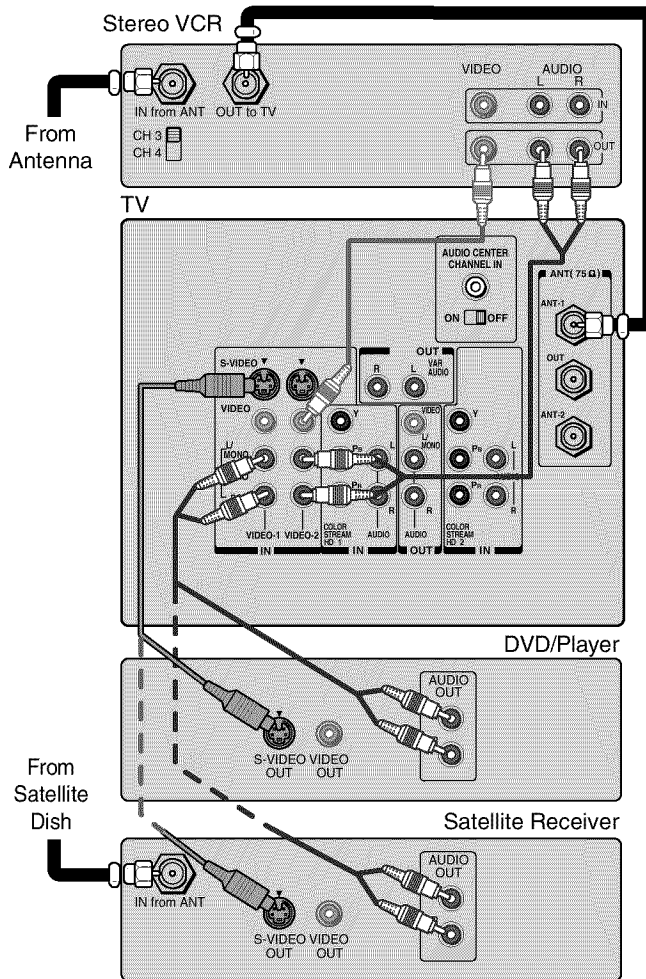
Do not connect a regular video cable and an S-video cable to Video-1 (or Video-2) at the same time.

Connecting a DVD player or satellite receiver and a VCR

This connection allows you to watch DVD/satellite, VCR, and TV programs, and record one TV channel while watching another channel.

You will need:

- one coaxial cable
- two pairs of audio cables (one single and one pair of audio cables for a mono VCR)
- one video cable (between the TV and VCR)
- one S-video cable (between the TV and DVD player/satellite receiver)



Note:

For the highest possible picture quality from a non-ColorStream DVD player/satellite receiver, use an S-video cable between the TV and DVD player/satellite receiver. (If your DVD player or satellite receiver is ColorStream-compatible, see page 8).

Do not connect both an S-video cable and a regular video cable between the TV and DVD player/satellite receiver at the same time. Doing so will distort the picture.

Do not connect the DVD player/satellite receiver and VCR to the same video channel on the TV. (See the illustrations, which show the DVD player/satellite receiver connected to Video-1 on the TV and the VCR connected to Video-2 on the TV.)

Caution:

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

Connecting a DVD player with component video and a VCR

This connection allows you to watch DVD, VCR, and TV programs, and record DVD and TV programs. You can record from one source while watching a program from another source.

Your TV has ColorStream (component video) inputs. Connecting your TV to a component video-compatible DVD player (such as a Toshiba DVD player with ColorStream®) can greatly enhance picture quality and realism.

You will need:

- one coaxial cable
- three pairs of audio cables (two single and one pair of audio cables for a mono VCR)
- two video cables
- one set of ColorStream (component video) cables (one S-video cable for a non-ColorStream DVD player; see notes at right)

Note:

For the highest possible picture quality, use ColorStream (component video) cables between the TV and DVD player. You can connect the ColorStream cables from the DVD player to either ColorStream jack on the TV (HD1 or HD2).

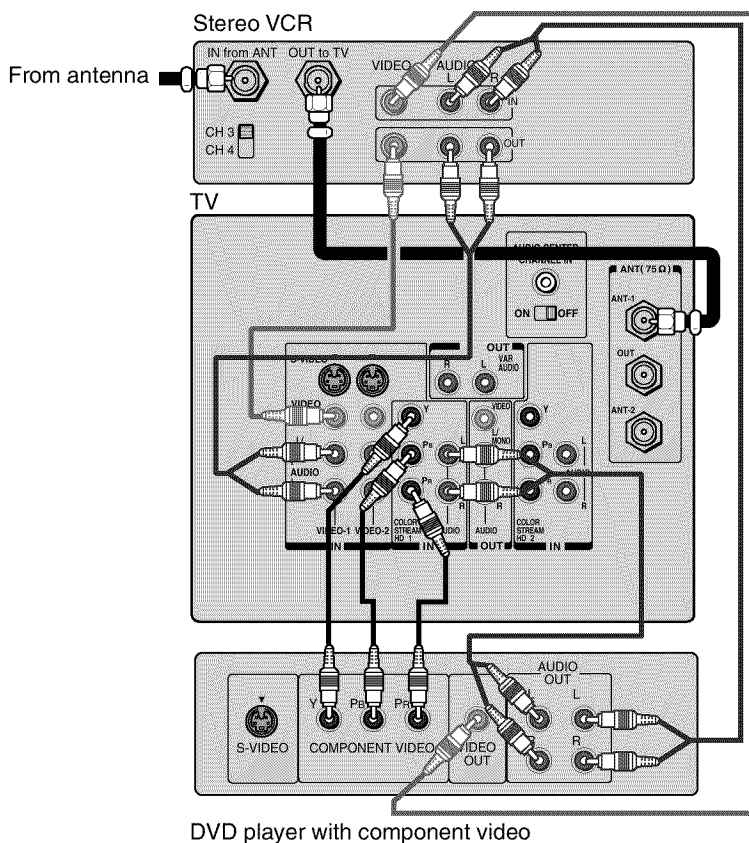
The ColorStream HD1 and HD2 jacks can be used with Progressive (480p) and Interlace (480i, 1080i) scan systems.

If your DVD player is not ColorStream-compatible, use the S-video connections (both audio and video) instead of the ColorStream connections. Do not connect both S-video and ColorStream cables between the TV and DVD player at the same time.

To record from the DVD player, set the VCR to Line IN. To monitor recording from the DVD player, set the VCR to Line IN, and set the TV to Video-1.

Caution:

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



DVD player with component video

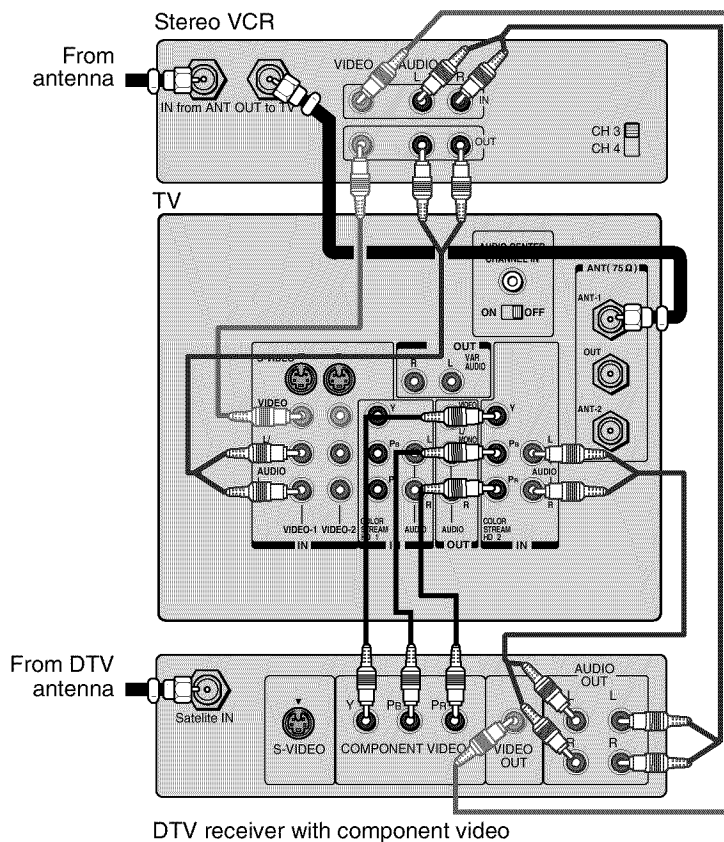
Connecting a DTV receiver/set-top box with component video and a VCR

This connection allows you to watch DTV (digital TV broadcast), VCR, and TV programs, and record DTV and TV programs. You can record from one source while watching a program from another source.

Your TV has ColorStream (component video) inputs. Connecting your TV to a component video-compatible DTV receiver can greatly enhance picture quality and realism.

You will need:

- one coaxial cable
- three pairs of audio cables (two single and one pair of audio cables for a mono VCR)
- two video cables
- one set of ColorStream (component video) cables (one S-video cable for a non-ColorStream DTV receiver; see notes at right)



Note:

For the highest possible picture quality, use ColorStream (component video) cables between the TV and DTV receiver. You can connect the ColorStream cables from the DTV receiver to either ColorStream jack on the TV (HD1 or HD2).

The ColorStream HD1 and HD2 jacks can be used with Progressive (480p) and Interlace (480i, 1080i) scan systems.

If your DTV receiver is not ColorStream-compatible, use the S-video connections (both audio and video) instead of the ColorStream connections. Do not connect both S-video and ColorStream cables between the TV and DTV receiver at the same time.

To record from the DTV receiver, set the VCR to Line IN. To monitor recording from the DTV receiver, set the VCR to Line IN, and set the TV to Video-1.

Caution:

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

Connecting two VCRs

This connection allows you to record (dub/edit) from one VCR to another VCR while watching a videotape. You can also record from one TV channel while watching another TV channel.

You will need:

- one coaxial cable
- two pairs of audio cables (two single audio cables for mono VCRs)
- two video cables (two S-video cables for S-VHS VCRs)

Caution:

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

Note:

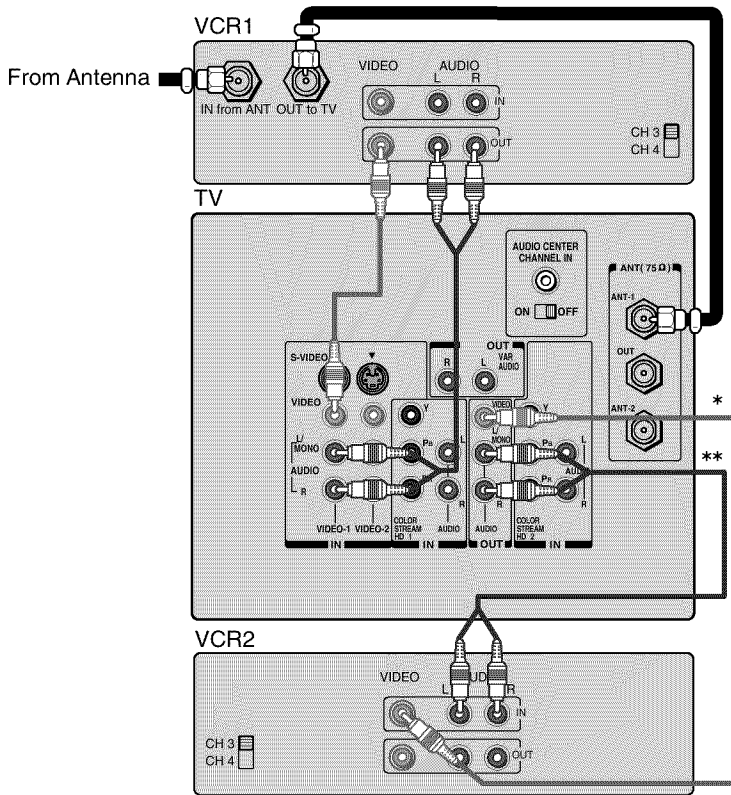
If you have S-VHS VCRs, use S-video cables instead of regular video cables. Do not connect both a regular video cable and an S-video cable to Video-1 (or Video-2) at the same time.

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

To dub or edit, VCR 2 must select Line IN, and the TV must select Video-1.

* The Video OUT jack does not output the PIP picture.

** The Audio OUT jacks can output the sound of either the Main or PIP picture (see "Selecting the Audio OUT sound" on page 45).



Connecting a camcorder

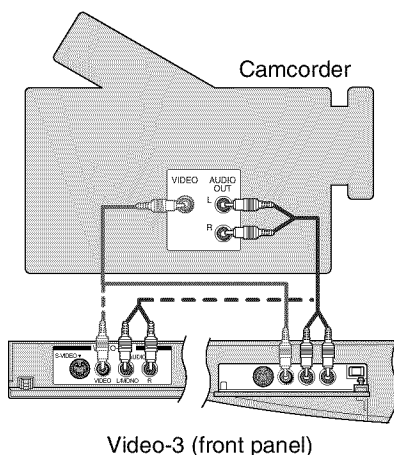
This connection allows you to watch video materials recorded on a camcorder.

You will need:

- one pair of audio cables
- one video cable (one S-video cable for an S-VHS camcorder)

Caution:

If you have an S-VHS camcorder, use an S-video cable instead of a regular video cable for improved picture quality.



Video-3 (front panel)

Connecting an audio system

This connection allows you to use an audio amplifier to adjust the audio level. This also allows you to use external speakers.

To control the audio, turn on the TV and the stereo amplifier, and turn off the built-in speakers (see “Turning off the built-in speakers” on page 45).

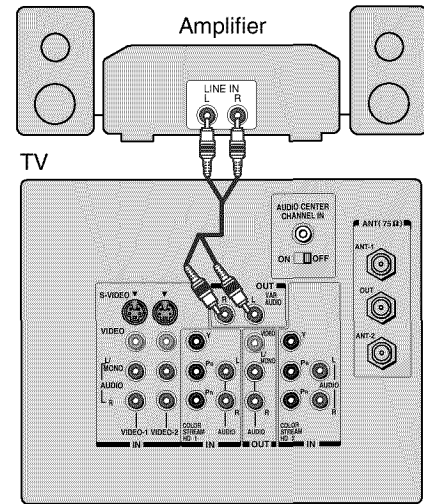
You will need:

- one pair of audio cables

Note:

To hear sound when using an external audio amplifier, the volume of both the TV and the amplifier must be set above 0 (zero).

For example, if the volume of the TV is set to 0, you will not be able to hear any sound, even if the volume of the amplifier is at its highest level.



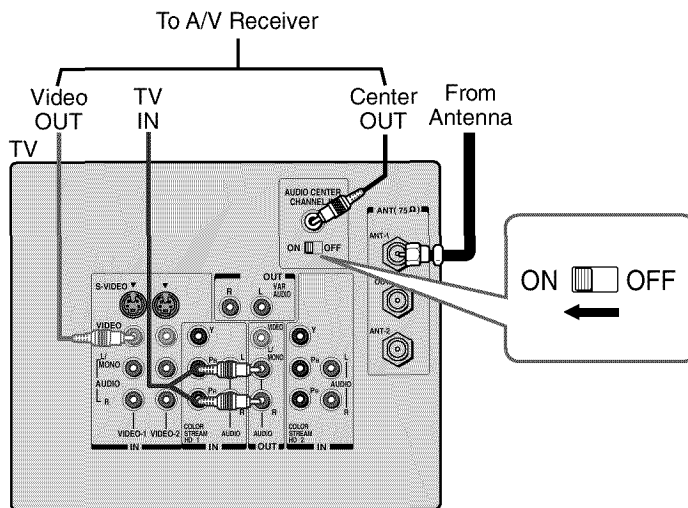
Connecting an A/V receiver

This connection allows you to use an audio/video (A/V) receiver to enhance your TV's sound.

If you have a system with Dolby Pro Logic® surround sound, you can add to the realism of the sound by using the TV's internal speakers as center channel speakers.

You will need:

- one pair of audio cables
- one single audio cable for the audio center channel
- one video cable



Note:

Refer to the instructions provided with your A/V receiver for details about your surround sound system.

When the Audio Center Channel ON/OFF switch is in the ON position, the TV speakers will function only as center channel speakers.

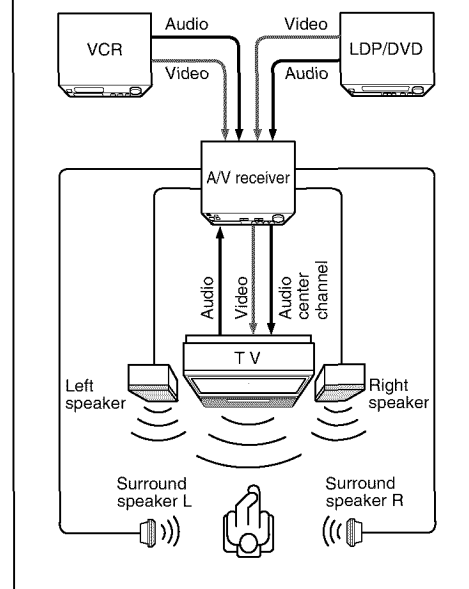
Adjust the volume for the center channel speakers using the center level control on the A/V receiver.

To use the TV speakers as normal speakers, set the Audio Center Channel ON/OFF switch to the OFF position.

Caution:

To avoid damaging the speakers, turn the TV off before connecting or disconnecting the Audio Center Channel audio cable.

Dolby Pro Logic* surround sound system connection example



* Dolby Pro Logic is a registered trademark of Dolby Laboratories Licensing Corporation.

Programming the remote control for use with a non-Toshiba VCR or cable TV converter

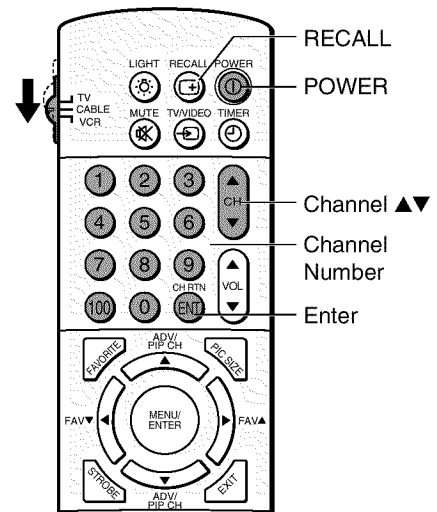
The TV remote control is pre-programmed to operate Toshiba VCRs and cable TV converters.

To program the TV remote control to operate non-Toshiba VCRs or cable converters:

1. Refer to the “VCR code table” or “Cable TV converter code table” on pages 14–15 to find the corresponding code for your VCR or cable TV converter brand.
If more than one code is listed, try each one separately until you find the one that works.
2. If you are reprogramming the remote control to operate your:
 - **VCR**, set the TV/CABLE/VCR switch on the remote control to VCR.
 - **Cable converter**, set the TV/CABLE/VCR switch on the remote control to CABLE.
3. While holding down the RECALL button, press the Channel Number buttons (0–9) to enter the three-digit code for your VCR or converter.
4. Point the remote control at the VCR or converter and press POWER to test the code.
If the VCR or converter responds, you have entered the correct code.
If the VCR or converter does not respond to the remote control, you may have entered the wrong code. Repeat steps 1–4 using another code.
5. Reset the TV/CABLE/VCR switch to TV to control the TV.

For future reference, write down the codes you used:

VCR code _____
Cable code _____



Note:

- Each time you replace the batteries, you must reprogram the remote control.
- Some newer VCRs are capable of working on either of two remote codes. These VCRs have a switch labeled “VCR1/VCR2.”
If your VCR has this kind of switch and does not respond to any of the codes for your VCR brand, set the switch to the other position (VCR1 or VCR2) and reprogram the remote control.

VCR code table

Brand name	Code number				
Adventura	019	Jensen	060	Quasar	054,096
Aiko	297	JVC	027,060,086	Radio Shack	019,056,344
Aiwa	019	Kenwood	057,060,086	Radix	056
Akai	060,068,080,125, 261	KLH	091	Randex	056
American High	054	Kodak	054,056	RCA	061,079,084,096, 124,125,168,221
Asha	259	Lloyd	019	Realistic	019,054,056,065, 066,067,081,085, 123,259
Audiovox	056	Lloyd's	227	Ricoh	053
Beaumarck	259	Logik	091	Runco	058
Bell & Howell	123	LXI	056	Samsung	064,259
Brandt	206	Magnavox	054,058,100,129, 168	Sanky	058,067
Broksonic	140,203,230,314, 380	Magnin	259	Sansui	060,086
Calix	056	Marantz	054,100	Sanyo	065,066,123,259
Canon	054	Marta	056	Scott	062,064,140,203, 229,230,231
Capehart	039	Masushita	054	Sears	054,056,061,065, 066,073,085,123, 124
Carver	100	MEI	054	Sharp	067,081
CCE	091,297	Memorex	019,054,056,058, 065,066,067,123, 259	Shintom	091
Citizen	056,297	MGA	062,080	Shogun	259
Colt	091	MGN Technology	259	Singer	091
Craig	056,066,091,259	Minolta	061,124	Sony	051,052,053,054
Curtis Mathes	054,060,079	Mitsubishi	062,080,086,094, 192,233,261	STS	061
Cybernex	259	Motorola	054,067	Sylvania	019,054,062,100, 129
Daewoo	039,064,297	MTC	019,259	Symphonic	019,344
Daytron	039	Multitech	019,091	Tatung	060
Dynatech	019	Nad	077	Teac	019,060
Electrohome	056	NEC	057,059,060,069, 086	Technics	054,181
Electroponic	056	Nikko	056	Teknika	019,054,056,071
Emerex	051	Noblex	259	Telefunken	060,206
Emerson	019,021,056,062, 080,087,140,203, 227,228,230,231, 297,313,314,380, 498	Olympus	054	TMK	227,259
Fisher	066,073,085,123	Optimus	056,067,077,123	Toshiba	062,064,085,229, 231,385
Fuji	052,054	Optronica	081	Totevision	056,259
Funai	019,344	Orion	498	Unitech	259
Garrard	019,344	Panasonic	054,096,181,244	Vector	064
GE	054,079,084,221	Penney	054,056,057,059, 061,073,259	Vector Research	057,059
Go Video	251,298	Pentax	061,084,124	Video Concepts	059,064,080
Goldstar	037,056,057	Philco	054	Videosonic	259
Gradiente	019	Philips	054,081,100,129	Wards	019,054,061,066, 067,081,091,168, 231,259
Harley Davidson	019	Pilot	056	XR-1000	019,054,091
Harman/Kardon	057,094	Pioneer	077,086	Yamaha	057
Harwood	087,091	Portland	039	Zenith	052,053,058
Headquarter	065	Protec	091		
HI-Q	066	Pulsar	058		
Hitachi	060,061,084,124, 254	Quarter	065		
		Quartz	065		

Cable TV converter code table

Brand name	Code number		
ABC	020,022,026,027,	Samsung	059,163
	030,032,033,036,	Scientific Atlanta	025,027,036,296
	066	Signal	034,059
Antronix	041	Signature	030
Archer	041,058,172	SL Marx	059
Belcor	075	Sprucer	040
Cable Star	075	Standard	
Cabletenna	041	Components	174
Cableview	041	Starcom	022,034,066
Century	172	Stargate	034,059
Citizen	172	Starquest	034
Colour Voice	044,050	Sylvania	020
Comtronics	059,079	Teleview	059
Contec	038	Texscan	020
Dae Ryung	027	Tocom	031,032,078
Eastern	021	Toshiba	019
Focus	419	Tusa	034
Garrard	172	Unika	041,172
GC Electronics	035,075	United Artists	026
Gemini	034,089	United Cable	022
General Instrument	030,295	Universal	041,058,075,096,
GoldStar	059,163		172,210
Hamlin	028,039,053,278,	Viewstar	046,079,230
	292	Zenith	019
Hitachi	030	Zentek	419
Hytex	026		
Jasco	172		
Jerrold	022,030,031,033,		
	034,043,066,295		
Macom	052		
Magnavox	046		
Memorex	019		
Movie Time	175		
NSC	089,175		
Oak	026,038,267		
Panasonic	019,040,126		
Paragon	019		
Philips	044,046,047,048,		
	049,050,172		
Pioneer	042,163,552		
Popular Mechanics	419		
Pulsar	019		
RCA	040		
Recoton	419		
Regal	039,278,292		
Regency	021		
Rembrandt	030,089		
Runco	019		

Learning about the remote control

POWER turns the TV on and off

RECALL displays information on-screen (page 46)

LIGHT illuminates the keypad for five seconds

TIMER sets the TV to turn off at a specific time (page 41)

TV/VIDEO selects the video input source (page 39)

MUTE turns off the sound (page 42)

TV/CABLE/VCR switches between TV, Cable and VCR (pages 12-13)

Channel ▲ ▼ cycles through programmed channels (page 20)

Channel Numbers allow direct access to channels (page 20)

Volume ▲ ▼ adjusts the volume level

CH RTN returns to the last viewed channel (page 23)

PIG SIZE cycles through the three image shapes: Normal, Letterbox, and Compression (page 26)

MENU/ENTER accesses on-screen programming menus (page 17) and sets programmed menu information (page 17)

▲ ▼ ◀ ▶ Buttons select or adjust programming menus (page 17)

PIP Channel ▲ ▼ selects the PIP channel (page 27)

FAV ▼ ▲ cycles through favorite channels (page 23)

FAVORITE accesses the favorite channel search function (page 24)

STROBE accesses the multi-window strobe function (page 29)

EXIT closes programming menus (page 17)

PIP turns the PIP/double-window feature on and off (page 27)

SOURCE selects the PIP/double-window picture source (page 27)

STILL freezes the PIP/double-window picture (page 28)

LOCATE moves the small PIP picture (page 28)

SWAP switches the main and PIP pictures (page 28)

VCR Buttons access VCR functions in VCR mode (page 12)

STOP stops a videotape

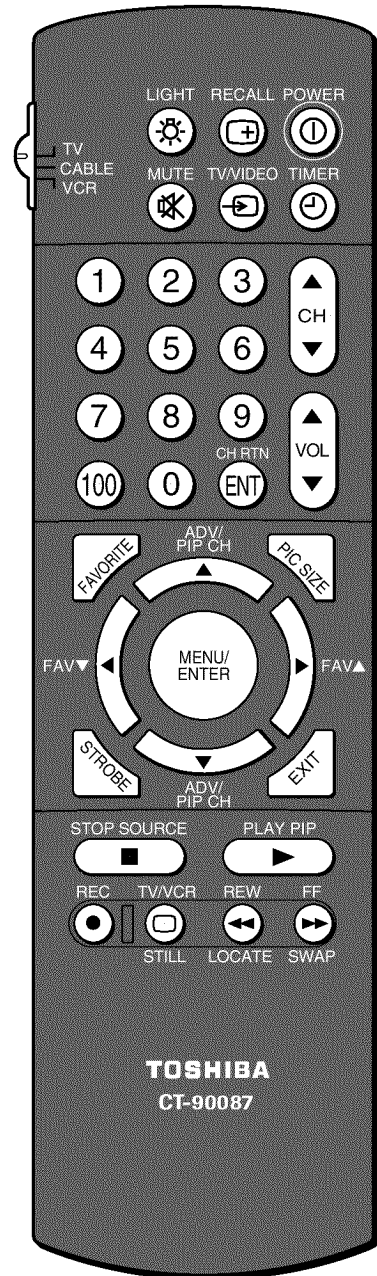
REC starts recording a videotape

PLAY plays a videotape

FF fast forwards a videotape

REW rewinds a videotape

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



Note:

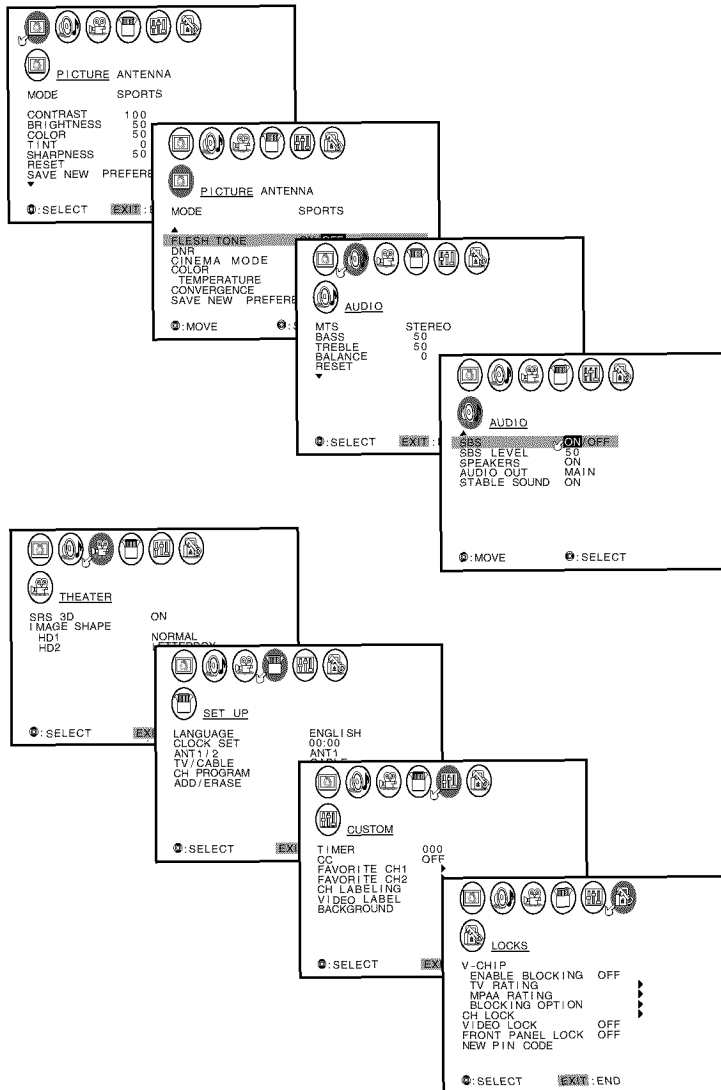
The error message "Not Available" will appear if you press a key for a function that is not available.

Setting up your TV

Learning about the menu system

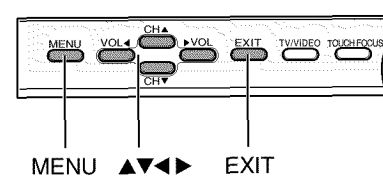
After you have installed the batteries and programmed the remote control, you will need to set some preferences on the TV using the menu system. You can access the menus using the buttons on the TV or remote control.

1. Press MENU to open the menu system.
2. Press ◀ or ▶ to select a menu.
3. Press ▲ or ▼ select an item.
4. Press ◀ or ▶ to select or adjust a setting.

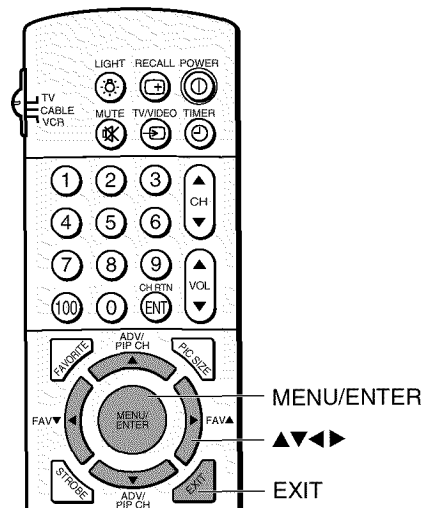
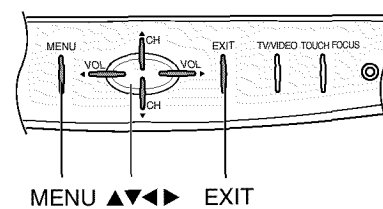


- Press ENTER to activate the function settings in the menus.
- The main menus close automatically in 15 seconds if no selection is made; the other menus close automatically in 6 seconds (except the Convergence menu, which remains open until a button is pressed).
- To close an on-screen menu instantly, press EXIT.

43H71



53H71/61H71



Note:

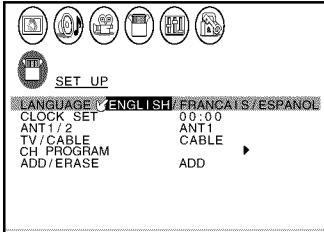
- The menu illustrations in the following pages have been distorted for easy reference.
- You can change the background of the menu. See page 46 for details.

Changing the on-screen display language

Choose from three different languages (English, French, and Spanish) for the on-screen display of adjustment menus and messages.

To select a language:

1. Press MENU, and then press ◀ or ▶ until the SET UP menu appears.
2. Press ▲ or ▼ to highlight LANGUAGE.



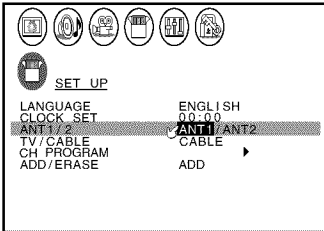
3. Press ◀ or ▶ to highlight the desired language.

Selecting the antenna input

You can connect to two different antenna input sources (ANT 1 or ANT 2).

To select the antenna input using the menu system:

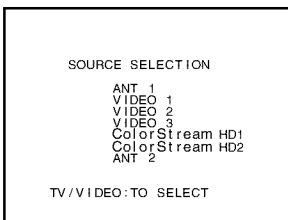
1. Press MENU, and then press ◀ or ▶ to highlight the SET UP menu.
2. Press ▲ or ▼ to highlight ANT 1/2.



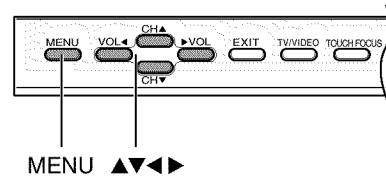
3. Press ◀ or ▶ to highlight either ANT 1 or ANT 2, depending on the antenna terminal you wish to use.

To select the antenna input using the TV/VIDEO button:

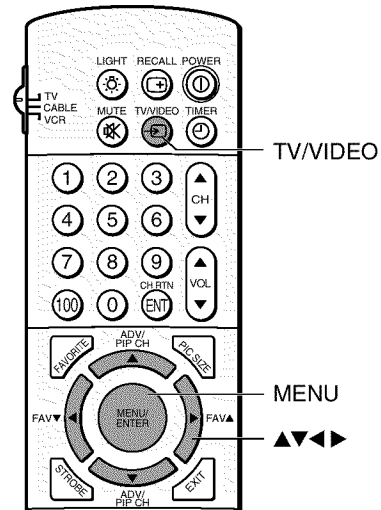
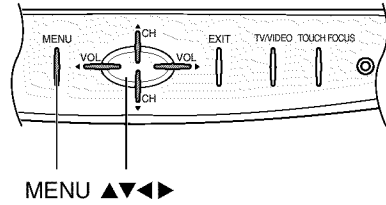
Repeatedly press the TV/VIDEO button on the TV to select ANT 1 or ANT 2. The current signal source displays in purple. (For details on using the TV/VIDEO button on the remote control, see page 39.)



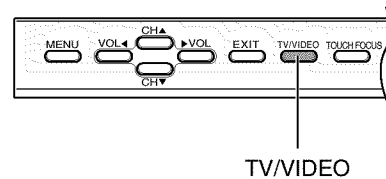
43H71



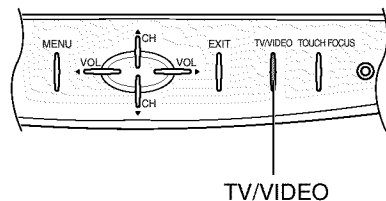
53H71/61H71



43H71



53H71/61H71



Adding channels to the TV's memory

When you press Channel ▲▼, the TV will select only the channels stored in the TV's channel memory.

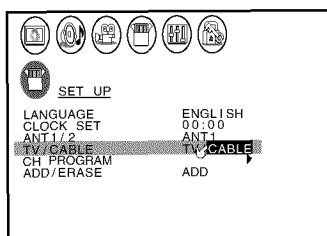
Follow the steps below and on the next page to program all active channels into the TV's memory.

Programming channels automatically

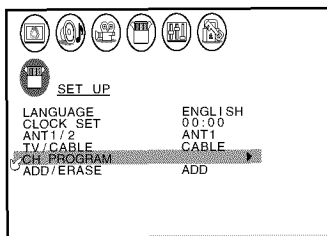
The TV can automatically detect all active channels in your area and store them in its memory. After the channels are stored automatically, you can manually add or erase individual channels (see page 20).

To program channels automatically:

1. Press MENU, and then press ◀ or ▶ until the SET UP menu appears.
2. Press ▲ or ▼ until TV/CABLE is highlighted.
3. Press ◀ or ▶ to highlight either TV or CABLE, depending on which you use. If you use an antenna, highlight TV; if you use cable, highlight CABLE.



4. Press ▼ to select CH PROGRAM.



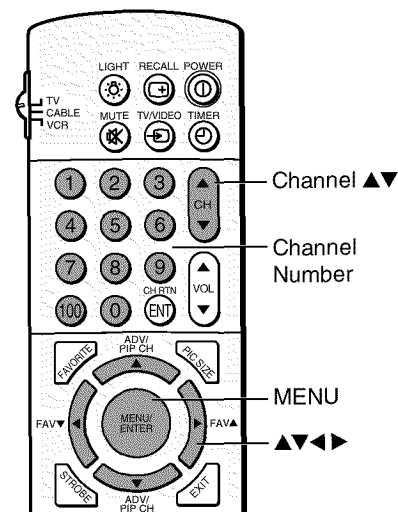
5. Press ◀ or ▶ to start automatic channel programming. The TV will automatically cycle through all the TV or Cable channels (depending on which you selected), and store all active channels in the channel memory.

While the TV is cycling through the channels, the message "Programming Now—Please Wait" appears.

6. When channel programming is complete, the message "Completed" appears.
7. Press Channel ▲▼ to view the programmed channels.

Note:

To tune the TV to a channel not programmed in the channel memory, use the Channel Number buttons on the remote control.

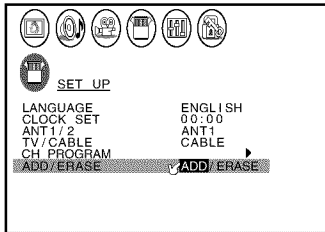


Adding and erasing channels manually

After you have programmed the channels automatically, you can manually add or erase specific channels.

To add or erase channels:

1. Select the channel you want to add or erase. If you are adding a channel, you must select the channel using the Channel Number buttons.
2. Press MENU, and then press ◀ or ▶ until the SET UP menu appears.
3. Press ▲ or ▼ to highlight ADD/ERASE.



4. Press ◀ or ▶ to select ADD or ERASE, depending on which function you want to perform.
5. Press ▼ to add (or erase) the channel.
6. Repeat steps 1–5 for other channels you want to add or erase.

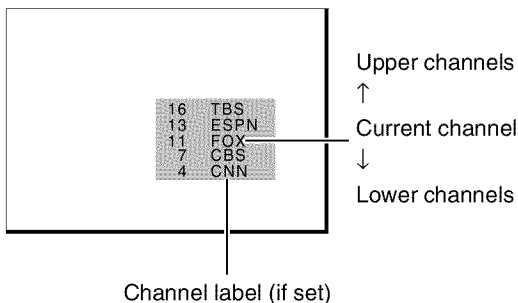
Changing channels

To change to the next programmed channel:

Press Channel ▲▼ on the TV or remote control.

To change to a specific programmed channel:

Press and hold Channel ▲▼ for about one second. The TV will enter the channel surf mode.



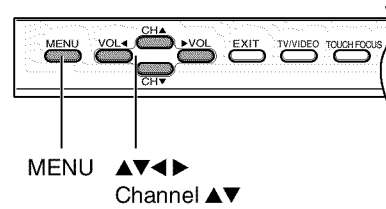
Repeatedly press or hold Channel ▲▼ while the channel surf mode is on-screen to scroll the channel list. Release the button to display the highlighted channel.

To change to a specific channel (programmed or unprogrammed):

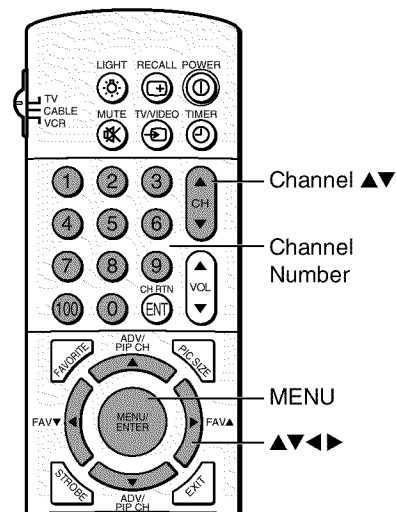
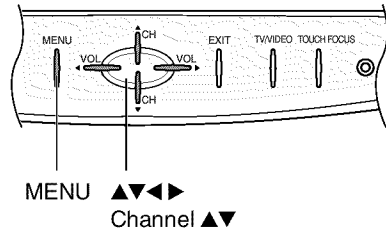
Press the Channel Number buttons (0–9 and 100).

For channels 100 and higher, press the 100 button, then the next two numbers. For example, to select channel 125, press 100, 2, 5.

43H71



53H71/61H71



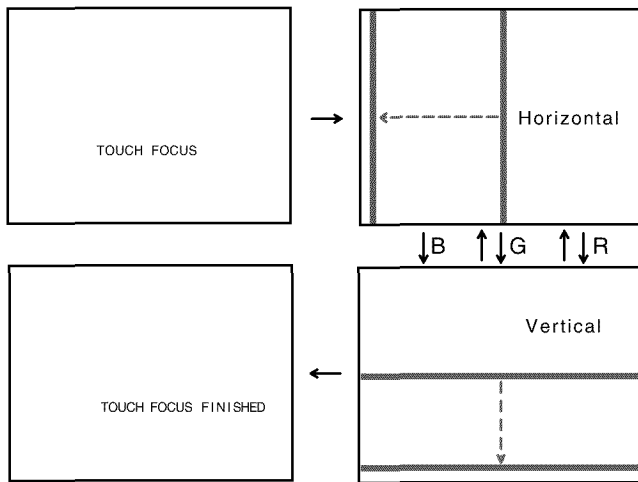
Adjusting the color convergence

This projection TV uses three separate TV tubes: red, green, and blue. 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 the three images converge correctly. Convergence may drift over time or if you move the TV. If you can see clear images on your TV screen, skip this procedure.

Make this adjustment only after the TV has been on for at least 30 minutes.

To use the TOUCH FOCUS (auto-convergence) button:

Press TOUCH FOCUS on the TV once. The TV will enter the auto-convergence mode and adjust the convergence automatically.

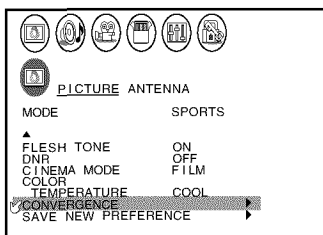


When the adjustment is complete, the normal picture reappears.

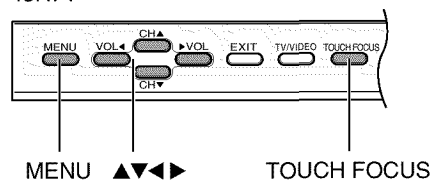
If the error message "Touch Focus Error" appears, retry the TOUCH FOCUS adjustment or adjust the convergence manually, as described below.

To check and adjust the color convergence manually:

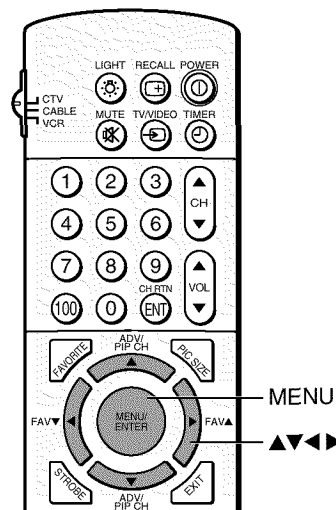
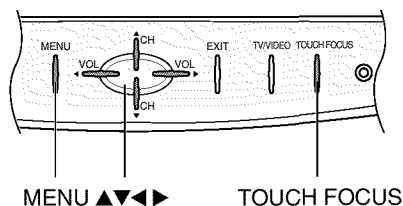
1. Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
2. Press ▲ or ▼ to highlight CONVERGENCE.



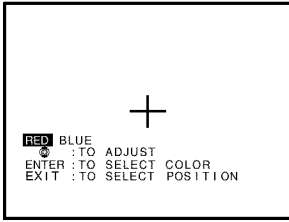
43H71



53H71/61H71

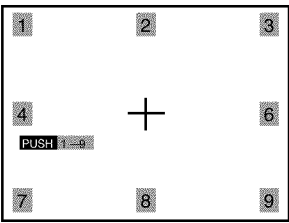


- Press ◀ or ▶ to display the Center Convergence menu.

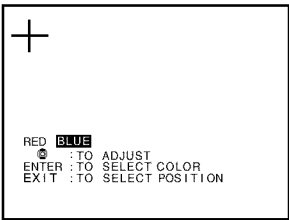


If you see separate red, blue, or green crossed lines (or red or blue shadows next to white lines), you need to adjust the convergence.

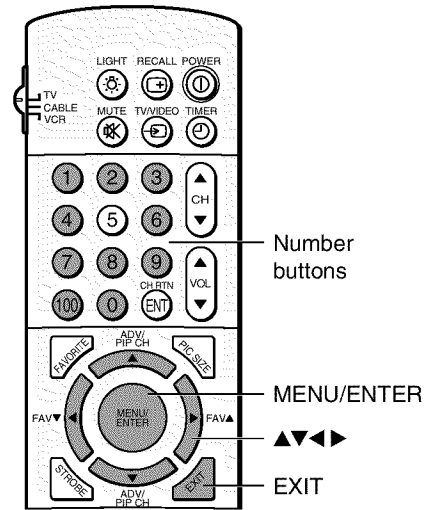
- Press ENTER to highlight RED or BLUE, depending on which color needs adjusting. If both red and blue need adjusting, you will need to perform steps 4 and 5 twice.
- Press ▲ (up), ▼ (down), ◀ (left), or ▶ (right) on the remote control to converge the red or blue line into the green line, which will turn completely white when correctly adjusted. When color convergence is correctly adjusted, you will see two single crossed white lines.
- Press EXIT to display the Circumference Convergence menu.
- Press the corresponding Number button (1–4 and 6–9) to select the area you want to adjust.



- Press ENTER to highlight RED or BLUE, depending on which color needs adjusting. If both red and blue need adjusting, you will need to perform steps 8 and 9 twice for the selected area.



- Press ▲▼◀▶ to converge the red or blue line into the green line, which will turn completely white when correctly adjusted. Repeat steps 8 and 9 until you see two single crossed white lines.
- Press EXIT once to select another area to adjust, and then repeat steps 7–9.
- Press EXIT twice to close the Convergence menu.



Using the TV's features

Adjusting the channel settings

Switching between two channels

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

To switch between two channels:

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

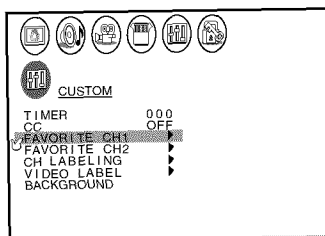
Each time you press CH RTN, the TV will switch back and forth between the two channels.

Programming your favorite channels

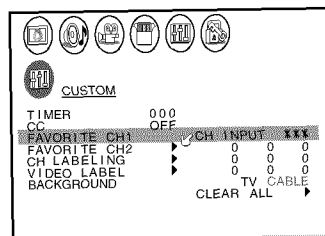
You can preset up to 9 of your favorite channels each for the FAVORITE CH1 and FAVORITE CH2 modes using the Favorite Channel Programming feature. Because this feature scans through only your favorite channels, it allows you to skip other channels you do not normally watch.

To program your favorite channels:

1. Press MENU, and then press ◀ or ▶ until the CUSTOM menu appears.
2. Press ▲ or ▼ to highlight FAVORITE CH1 (or FAVORITE CH2).



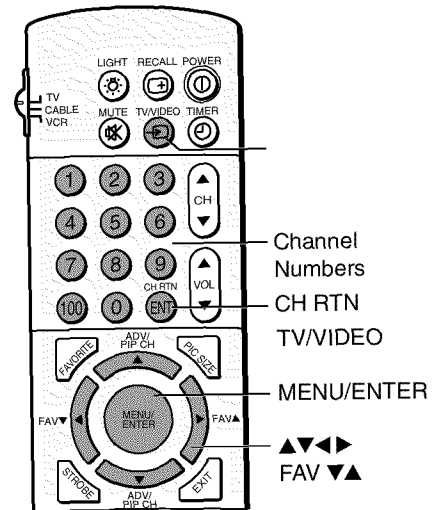
3. Press ◀ or ▶ to display the FAVORITE CH1 menu, for example. CH INPUT will be highlighted.



4. Press the Channel Number buttons to enter one of your favorite channels.
5. Press ENTER.
6. Repeat steps 4 and 5 for other channels.

To select your favorite channels:

Press FAV ▼ or ▲.



Note:

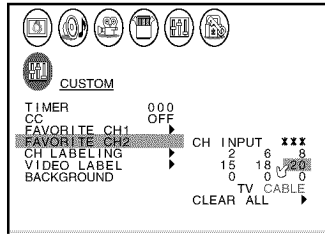
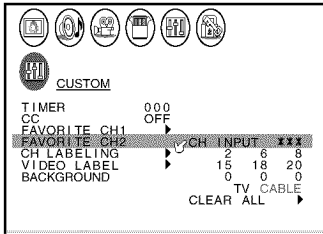
- The FAV ▼▲ buttons operate as MENU ◀▶ buttons when a menu is on-screen.
- The favorite channel feature is not available in ANT2 mode.

To quickly scan through your favorite channels in a 9-picture multi-window:

Press FAVORITE to open the favorite channel search function (see page 24).

To clear a favorite channel:

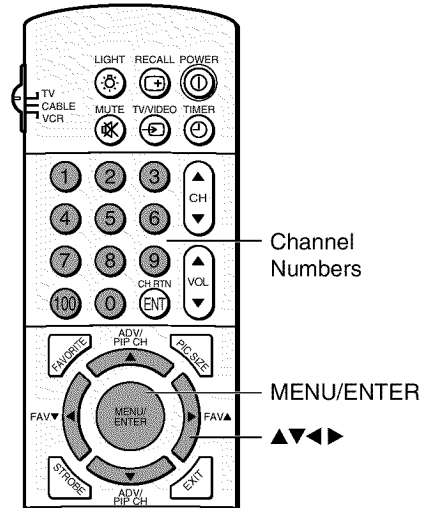
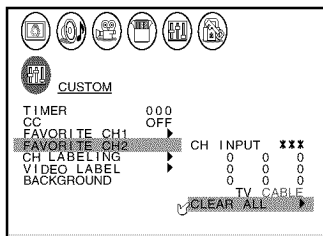
1. Press MENU, and then press ◀ or ▶ until the CUSTOM menu appears.
2. Press ▲ or ▼ to highlight FAVORITE CH2, for example.
3. Press ◀ or ▶ to display the FAVORITE CH2 menu.
4. Press ▲▼◀▶ to highlight the channel you want to clear, then press ENTER.



5. Repeat step 4 for other channels.

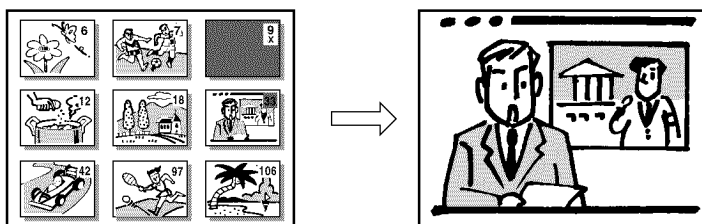
To clear all favorite channels at once:

Press ▲ or ▼ to highlight CLEAR ALL in step 4 above, and then press ▶ or ◀



Using the favorite channel search function

1. Press FAVORITE to scan the favorite channels you programmed into the TV memory using the favorite channel function (page 23).
The 9-picture multi-window favorite channel search will start.
The first window will display as a moving picture. All others will be still.
2. Press ▲▼◀▶ to select the channel you want to watch. The selected channel will display as a moving picture in the 9-picture multi-window.
3. Press ENTER to display the channel you selected in step 2 as a normal picture.



Each time you press FAVORITE, the display changes in the following order: FAVORITE CH1—FAVORITE CH2—Off

To cancel the favorite channel search function:

Press FAVORITE again.

Note:

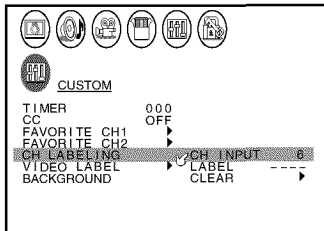
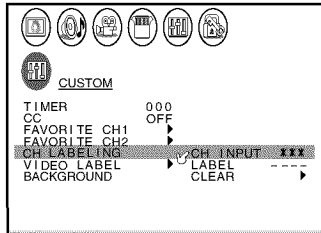
- When the main picture source is ColorStream, the FAVORITE function is not available.
- If the V-CHIP feature is active and you try to scan a TV program that exceeds the set rating limits, a black window with an "X" may appear; however, the V-CHIP operation may not always function properly during channel scanning.

Labeling channels

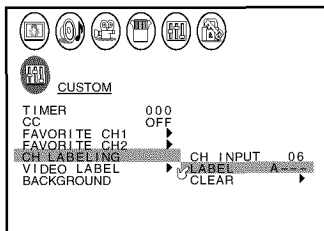
Channel labels appear on-screen above the channel number display each time you turn on the TV, change the channel, or press **RECALL**. You can choose any four characters to identify a channel.

To create channel labels:

1. Press **MENU**, and then press ◀ or ▶ until the **CUSTOM** menu appears.
2. Press ▲ or ▼ to highlight **CH LABELING**.
3. Press ◀ or ▶ to display the **CH LABELING** menu. **CH INPUT** will be highlighted.
4. Press the Channel Number buttons to select a channel you want to label.



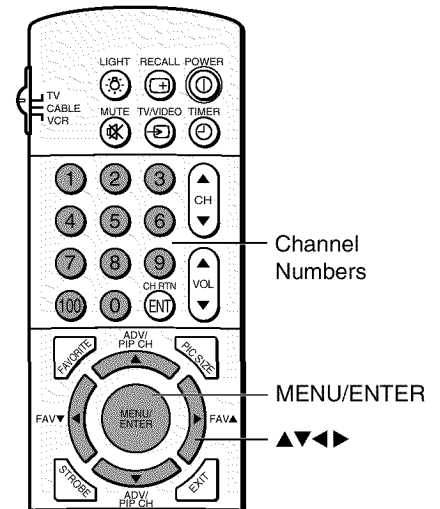
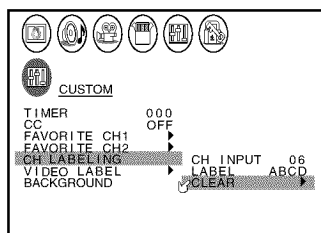
5. Press ▼ to highlight **LABEL**.
6. Press ◀ or ▶ repeatedly to select a character for the first space, and then press **ENTER**.



7. Repeat step 6 to enter the rest of the characters.
If you would like a blank space in the label name, you must choose an empty space from the list of characters. Otherwise, a dash “-” will appear in that space.
8. Repeat steps 4–6 for other channels. You can assign labels to a maximum of 32 channels.

To erase channel labels:

1. Press **MENU**, and then press ◀ or ▶ until the **CUSTOM** menu appears.
2. Press ▲ or ▼ to highlight **CH LABELING**.
3. Press ◀ or ▶ to display the **CH LABELING** menu.
4. Press ▼ to highlight **CH INPUT**, then select the channel you want to clear with the Channel Number buttons.
5. Press ▼ to highlight **CLEAR**.
6. Press ◀ or ▶ to erase the channel label.
7. Repeat steps 4–6 to erase other channel labels.



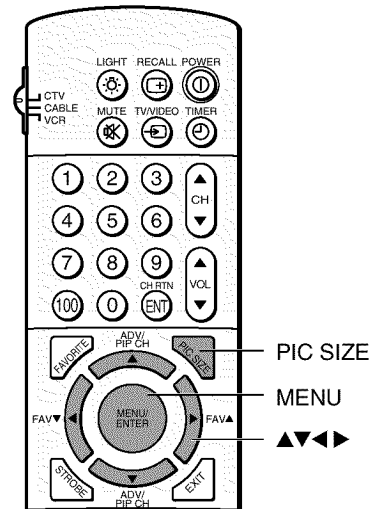
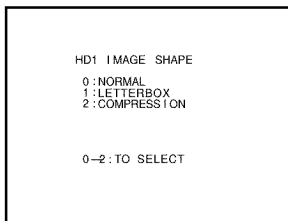
Viewing wide-screen picture formats

You can view programs that have the conventional TV picture format (4:3 aspect ratio) and the wide-screen format (16:9 aspect ratio). This feature is available for 1080i digital broadcasts and 480p/480i DVD signals connected to the ColorStream HD1 or HD2 jacks.

Selecting the image shape (picture size)

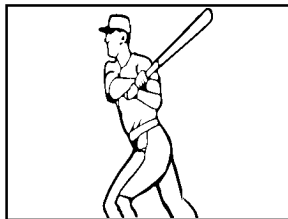
1. The ColorStream HD1 or HD2 mode must be selected (see page 39 for details).
2. Press PIC SIZE repeatedly to select either Normal, Letterbox, or Compression image shape (as described below). Or, while the menu (below) is on-screen, select the desired image shape by pressing the corresponding number button (0–2).

Note: The message "Not Available" will appear when the PIC SIZE button is pressed in a mode other than ColorStream HD1 or HD2.



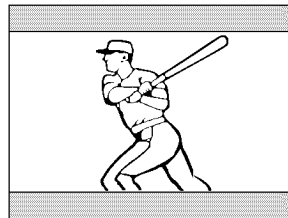
Normal image shape

The Normal mode displays a wide (16:9) picture in the conventional 4:3 aspect ratio. The picture is stretched vertically to fill the screen.



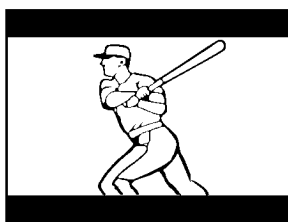
Letterbox image shape (recommended mode)

The Letterbox mode displays a wide (16:9) picture in the 16:9 aspect ratio. The picture retains its true proportion. Gray bars appear at the top and bottom of the screen. The number of scanning lines is reduced, which reduces the picture quality; however, this also reduces the possibility of CRT burn-in (less than in Compression mode).



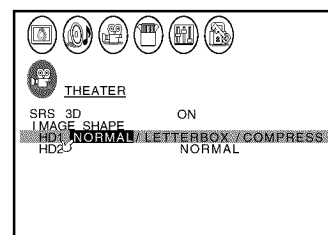
Compression image shape

The Compression mode displays a wide (16:9) picture in the 16:9 aspect ratio. The picture retains its true proportion. Black bars appear at the top and bottom of the screen. The number of scanning lines is not reduced, which retains the original picture quality; however, this also increases the possibility of CRT burn-in (more than in Letterbox mode).



Note:

You can also change the image shape using the menu system. Select IMAGE SHAPE HD1 or HD2 in the THEATER menu.

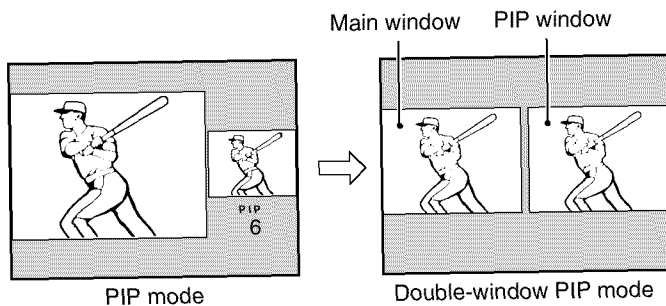


Using the PIP/double-window feature

The PIP/double-window feature allows you to watch two pictures at the same time. The PIP picture can come from a TV broadcast or an external source such as a VCR.

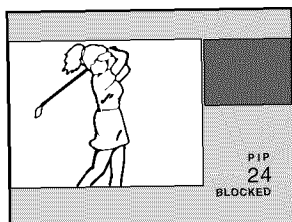
To display a TV broadcast in the PIP window:

1. Turn on the TV and select the program you want to watch.
2. Press PIP once to display the small PIP picture. Press PIP a second time to display the double-window PIP.



3. Press PIP CH ▲▼ to change the PIP channel.

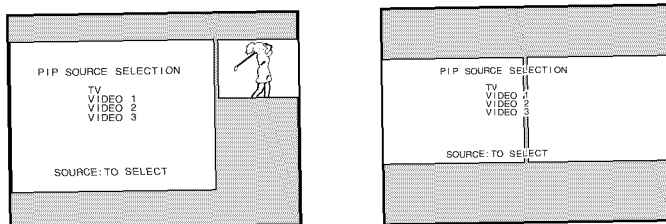
If the V-CHIP feature is on and you select a TV program that exceeds the set rating limits, the PIP window will be blocked (see "Using V-CHIP menu" on page 31).



To display a picture from an external source in the PIP window:

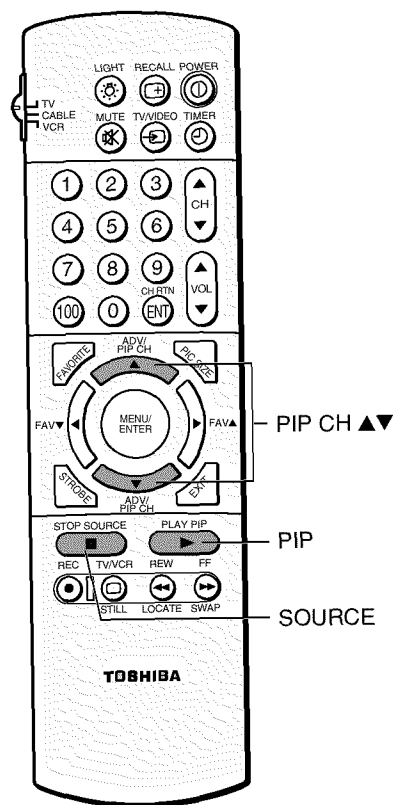
1. Check the connections on your external source equipment (see "Connecting your TV" on page 5).
2. Turn on the TV and select the program you want to watch.
3. Press PIP once to display the small PIP picture. Press PIP a second time to display the double-window PIP.
4. Press SOURCE repeatedly to select the PIP input source (VIDEO 1, VIDEO 2, or VIDEO 3). The selected source is displayed in purple.

Note: ColorStream HD1 and HD2 cannot be selected in PIP mode.



To turn off the PIP feature:

Press PIP once or twice, depending on the size of the PIP window you selected.



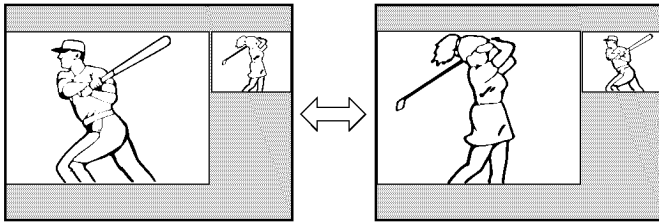
Note:

- PIP/double-window can not be turned on when the ColorStream input (HD1 or HD2) is being viewed.
- You can not display the signal sources input through the ANT-2 terminal as a sub-picture.

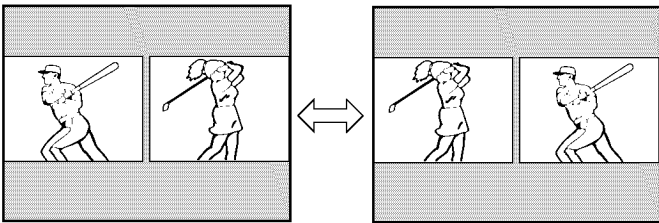
Switching the main and PIP pictures

Press SWAP repeatedly while you are using the PIP feature to switch the main and PIP pictures.

Small PIP picture mode

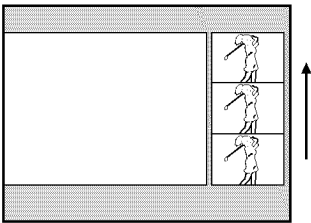


Double-window PIP mode



Changing the position of the small PIP picture

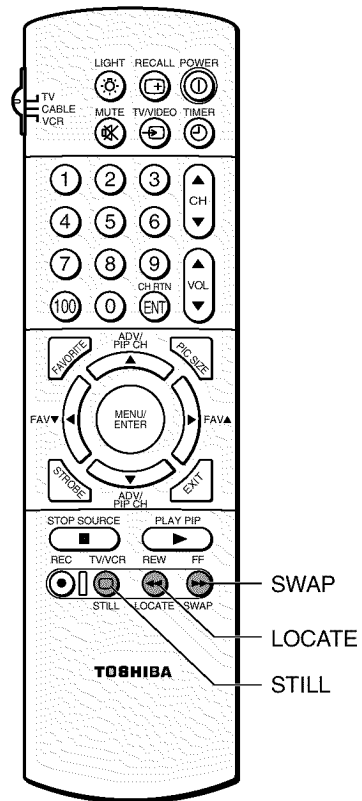
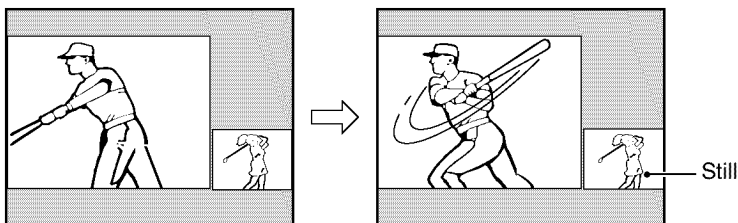
Press LOCATE repeatedly while you are watching the small PIP picture. The display position of the small picture will change in the following order:



Note: The LOCATE function is not available in the double-window PIP mode.

Freezing the PIP picture

Press STILL to freeze the PIP picture. To restore the moving picture, press STILL again.

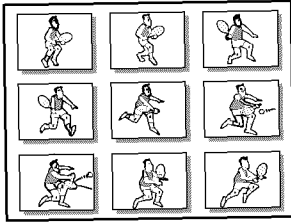


Using the strobe function

The strobe function strobes the action of the current program in a 9-picture multi-window. For example, you can watch a decisive moment of a sports program that has been recorded previously.

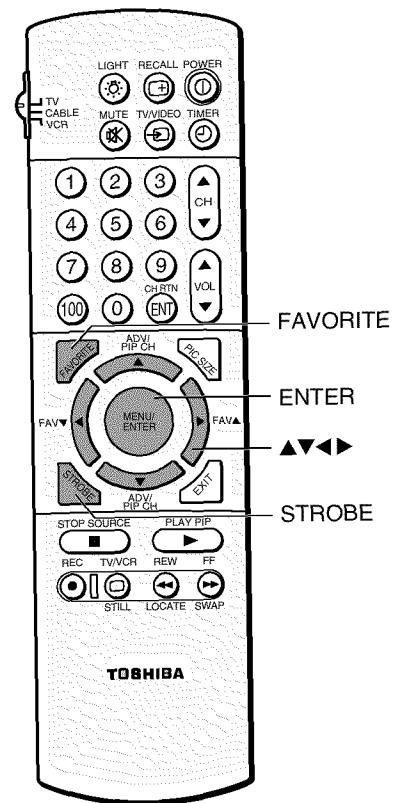
To start the strobe function:

Press STROBE.



To cancel the strobe function:

Press STROBE again.



Note:

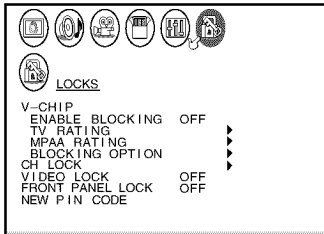
- When the main picture source is ColorStream, the STROBE function is not available.

Using the LOCKS menu

The LOCKS menu includes the V-Chip, CH Lock, Video Lock, and New PIN Code functions. You can use these functions after entering the correct PIN code.

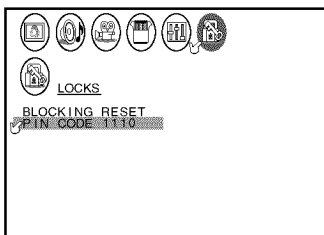
Entering the PIN code

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



2. Press ▲ or ▼ to display the PIN code entering mode.

- Blocking reset status:
Set the 4-digit PIN code by pressing the Number buttons (0–9), and then press ENTER.

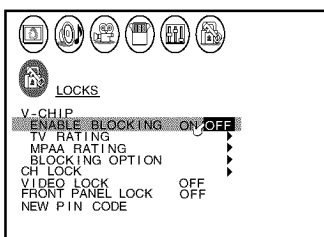


- When the PIN code is already stored:
Press the Number buttons (0–9) to enter the 4-digit PIN code, and then press ENTER.



If a wrong PIN code is entered, the message “Incorrect” appears. Enter the code again, and then press ENTER.

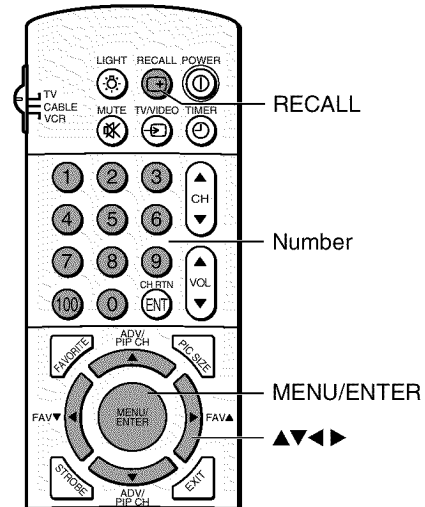
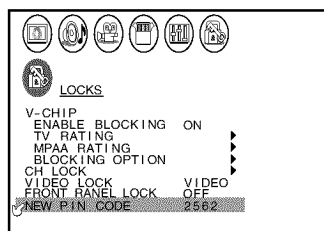
If you cannot remember the PIN code you stored, while in the PIN code entering mode, press RECALL four times within 5 seconds. The PIN code will be returned to blocking reset status.



Continue to set each item following the steps on the following pages.

Changing the PIN code

1. From the LOCKS menu, select NEW PIN CODE.
2. Press the Number buttons (0–9) to enter a new 4-digit PIN code. The numbers you enter will replace the dashes in the display.
3. Press ENTER. The new PIN code is now active.



Using the V-CHIP menu

Some TV programs and movies include signals that classify the content of the program (violence, sex, dialog, language). The V-CHIP control feature in the TV detects the signals and blocks the programs according to your selections. To use this feature, perform the following setup.

ENABLE BLOCKING

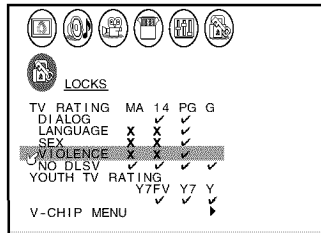
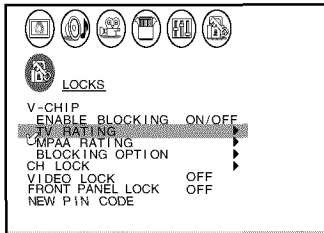
1. From the LOCKS menu, select ENABLE BLOCKING.
2. Press ◀ or ▶ to select ON or OFF.

ON: To enable blocking (lock). OFF: To release blocking (unlock).

Note: The CH LOCK function is not affected by this selection.

TV RATING (Independent rating system for broadcasters)

1. From the LOCKS menu, select TV RATING.
2. Press ◀ or ▶ to display the TV RATING menu.
3. Press ▼ or ▲ to select the item.
4. Press ▶ to lock (display "X"). Press ◀ to unlock (display "✓").

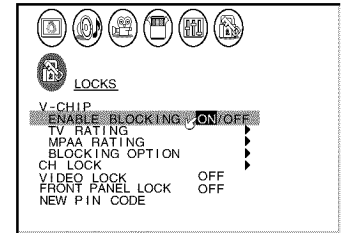


5. Repeat steps 3 and 4 to set the next item.

The TV age-based ratings and content themes that can be locked are listed in the table below.

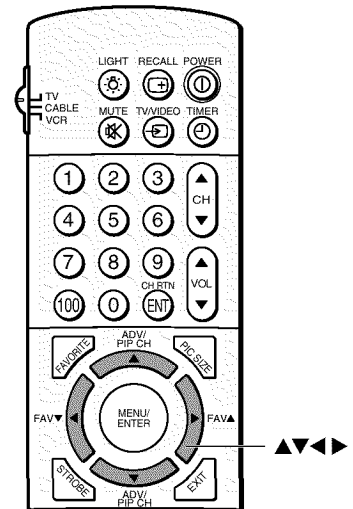
Ratings	Description and Content themes
MA	Mature Audience Only (This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.) L) Crude or indecent language S) Explicit sexual activity V) Graphic violence
14	Parents Strongly Cautioned (This program contains some material that many parents would find unsuitable for children under 14 years of age.) D) Intensely suggestive dialog L) Strong, coarse language S) Intense sexual situations V) Intense violence
PG	Parental Guidances Suggested (This program contains material that parents may find unsuitable for younger children.) D) Some suggestive dialog L) Infrequent coarse language S) Some sexual situations V) Moderate violence
G	General Audience (Most parents would find this program suitable for all ages.)
Y7, Y7FV	Directed to Older Children (This program is designed for children age 7 and above. Note: Programs in which fantasy violence may be more intense or more combative than other programs in this category are designated Y7FV.)
Y	All Children (This program is designed to be appropriate for all children)

LOCKS menu

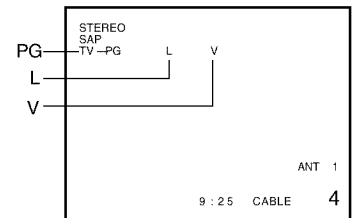


To select each item:

Press ▼ or ▲.

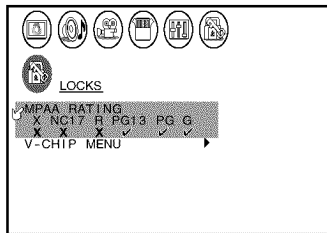


Press RECALL to display the rating of the TV program you are currently watching.



MPAA RATING (Independent rating system for movies)

1. From the LOCKS menu, select MPAA RATING.
2. Press ◀ or ▶ to display the MPAA RATING menu, and then press ▼ or ▲ to highlight MPAA RATING.
3. Press ◀ or ▶ to display the MPAA RATING menu.



4. Press ▶ to lock ("X") or ◀ to unlock ("✓").

The movie ratings you can lock are described as follows:

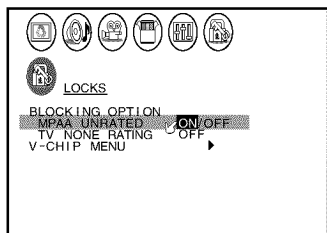
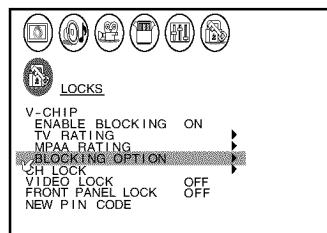
- X : X-rated (For adults only)
- NC17: Not intended for anyone 17 and under
- R : Restricted (Under 17 requires accompanying parent or adult guardian.)
- PG13: Parents Strongly Cautioned (Some material may be inappropriate for children under 13)
- PG : Parental Guidance Suggested (Some material may not be suitable for children)
- G : General Audience (Appropriate for all ages)

BLOCKING OPTION

1. From the LOCKS menu, select BLOCKING OPTION.
2. Press ◀ or ▶ to display the BLOCKING OPTION menu, and then press ▲ or ▼ to select the item.

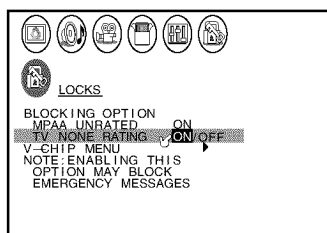
MPAA UNRATED:

Press ◀ or ▶ to select ON (lock) or OFF (unlock) for unrated programs in the MPAA rating system.



TV NONE RATING

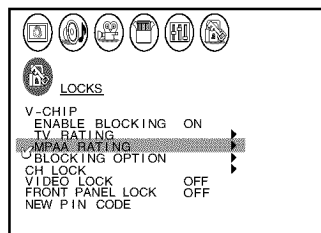
Press ◀ or ▶ to select ON (lock) or OFF (unlock) for programs rated NONE in the TV PARENTAL GUIDELINES.



V-CHIP MENU:

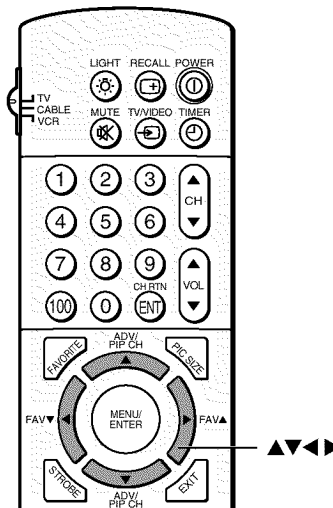
Press ◀ or ▶ to return to the LOCKS menu.

LOCKS menu



To select each item:

Press ▼ or ▲ .

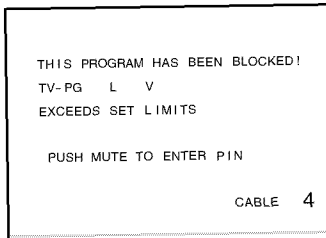


Caution:

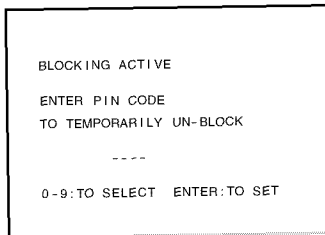
Setting the TV None Rating to ON may block the broadcast of emergency information. The menu will display the note, "Enabling this option may block emergency messages" to warn you of this possibility.

Unlocking programs temporarily

1. If you try to watch a TV program that exceeds the rating limits you set, the TV enters into the program lock mode.



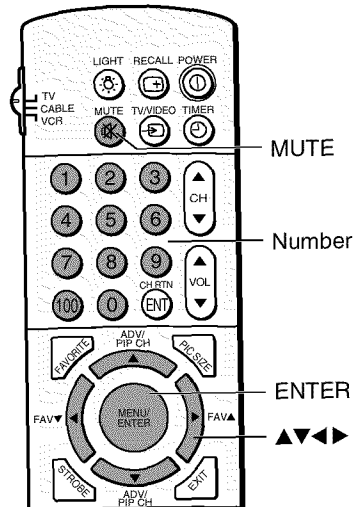
2. To temporarily unlock the program, press MUTE.
3. Press the Channel Number buttons (0–9) to enter your 4-digit PIN code.



4. Press ENTER.

If the number is correct, the lock mode will be released and the normal picture will appear.

All locking is disabled until the TV is turned off, and will be enabled when the TV is turned on again.



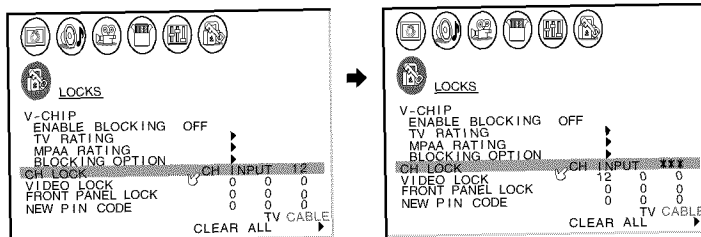
Locking channels

With the CH LOCK feature, you can lock specific channels. The TV will not be able to tune locked channels with the Channel \blacktriangle \blacktriangledown buttons or Channel Number buttons unless you clear the setting.

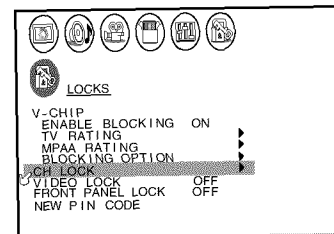
You can lock a maximum of nine channels.

To lock channels:

1. From the LOCKS menu, select CH LOCK.
2. Press \blacktriangleleft or \blacktriangleright to display the CH LOCK menu. CH INPUT will be highlighted.
3. Press the Channel Number buttons to enter the channel you want to lock. (The channel you are currently watching cannot be locked.)
4. Press ENTER.



LOCKS menu



To select each item:

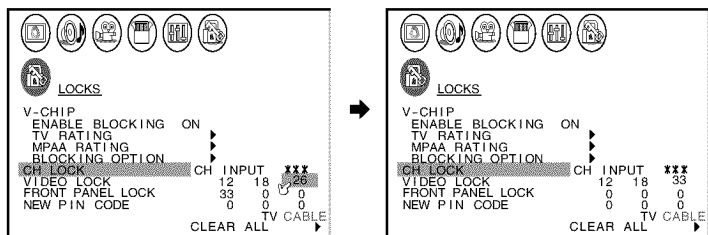
Press \blacktriangledown or \blacktriangle .

5. Repeat steps 3 and 4 for other channels.

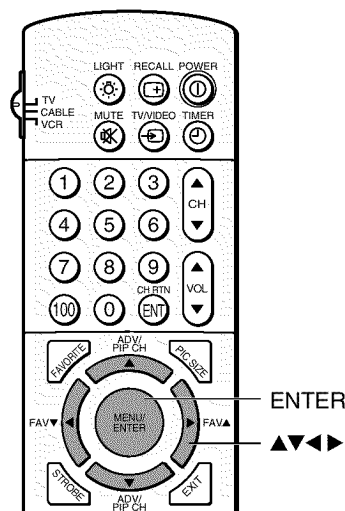
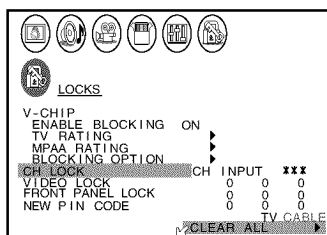
(Continued on next page)

To unlock channels:

1. From the LOCKS menu, select CH LOCK.
2. Press ◀ or ▶ to display the CH LOCK menu.
3. Press ▲▼◀▶ to highlight the channel you want to unlock, then press ENTER.



4. Repeat step 3 for other channels.
5. Otherwise, to clear all locked channels at once, press ▲ or ▼ to highlight CLEAR ALL, then press ▶ or ◀.



Locking video inputs

With the VIDEO LOCK feature, you can lock out the input sources (Video 1, Video 2, Video 3, ColorStream HD1, ColorStream HD2) and channels 3 and 4.

You will not be able to select the input sources with the TV/VIDEO button or Channel buttons unless you clear the setting.

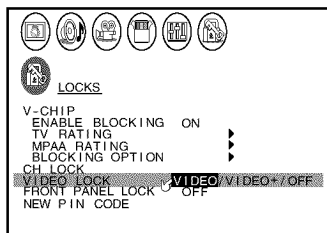
To set up the video lock:

1. From the LOCKS menu, select VIDEO LOCK.
2. Press ◀ or ▶ to highlight the level of video locking you want (Video, Video+, or Off), as follows:

VIDEO : Locks Video 1, Video 2, Video 3, ColorStream HD1/HD2.

VIDEO+ : Locks Video 1, Video 2, Video 3, ColorStream, HD1/HD2, and channels 3 and 4. This option should be used if you use the antenna terminal to play a video tape.

OFF : Unlocks all video input sources.

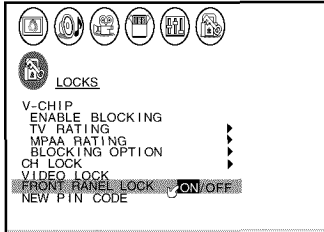


Using the front panel lock feature

The front panel buttons (except POWER) can be locked to prevent the settings from being changed accidentally (by children, for example).

To activate the front panel lock feature:

1. From the LOCKS menu, select FRONT PANEL LOCK.
2. Press ◀ or ▶ to highlight ON.

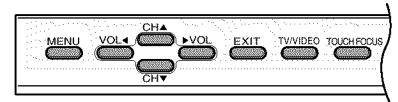


If a button on the front panel is pressed, the message “Not Available” appears.

To deactivate the front panel lock:

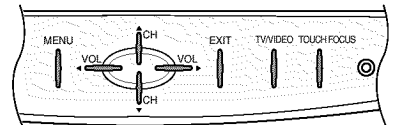
Highlight OFF in step 2 above.

43H71

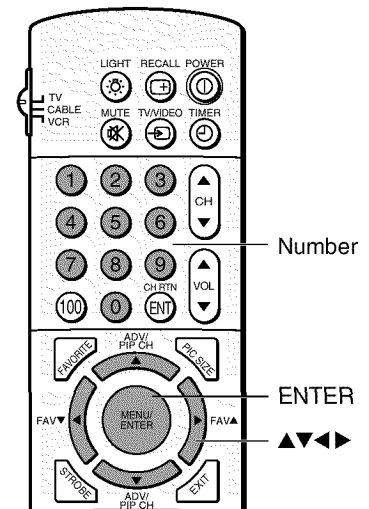


Front panel buttons that can be locked

53H71/61H71



Front panel buttons that can be locked



Adjusting the picture

Selecting the picture mode

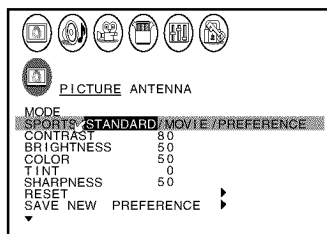
Select the desired picture type from four picture modes: Sports, Standard, Movie, and Preference.

Mode	Picture Quality
Sports	Bright and dynamic picture (factory setting)
Standard	Standard picture setting (factory setting)
Movie	Movie-like picture setting (factory setting)
Preference	Your personal preference*

*(see "Saving new preference" on page 37.)

To select the picture mode:

1. Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
2. Press ▼ or ▲ to select MODE.
3. Press ◀ or ▶ to highlight the mode you prefer.



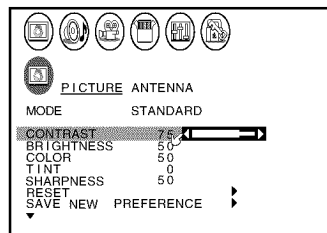
Adjusting the picture qualities

You can adjust the picture qualities to your personal preferences, including the contrast, brightness, color, tint, sharpness, flesh tone, noise reduction, and color temperature.

Selection	◀ Pressing ▶	
contrast	lower	higher
brightness	darker	lighter
color	paler	deeper
tint	reddish	greenish
sharpness	softer	sharper

To adjust the picture qualities:

1. Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
2. Press ▼ or ▲ until the item you want to adjust is highlighted.
3. Press ◀ or ▶ to adjust the level.



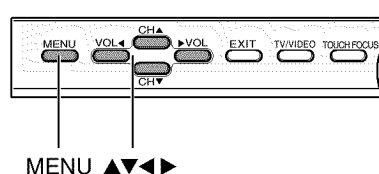
The PICTURE qualities you adjusted can be saved in the TV's memory with the SAVE NEW PREFERENCE feature (see page 37). You can keep these settings or choose factory set options, as described under "Selecting the picture mode" above.

Note:

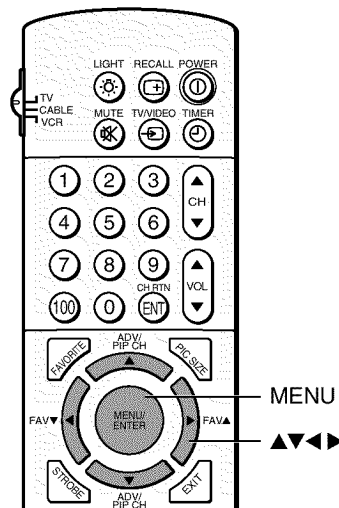
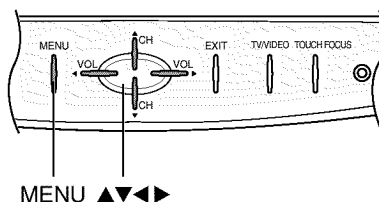
If you select one of the factory-set picture modes (SPORTS, STANDARD, or MOVIE) and then change a picture quality setting (for example, increase the contrast), the picture mode automatically changes to PREFERENCE in the Picture menu.

To save your new picture quality settings, you must select SAVE NEW PREFERENCE before closing the Picture menu or the TV will return to the previous picture mode (see page 37).

43H71



53H71/61H71

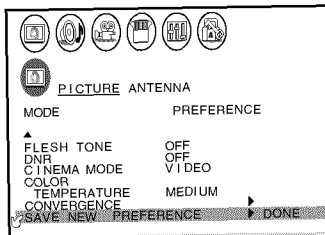


Saving new preference

You can save the PICTURE qualities you adjusted (contrast, brightness, color, tint, and sharpness) in the Preference mode.

To save your new preferences:

1. Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
2. Press ▲ or ▼ to highlight SAVE NEW PREFERENCE.
3. Press ◀ or ▶. When complete, the menu displays "DONE".



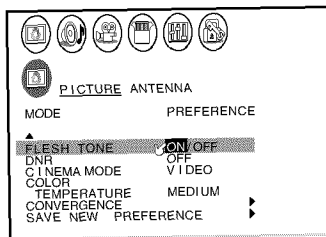
The mode automatically changes to PREFERENCE (see "Selecting the picture mode" on page 36).

Using the flesh tone feature

The flesh tone feature displays natural flesh tones by correcting the tint.

To turn on the flesh tone feature:

1. Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
2. Press ▲ or ▼ to highlight FLESH TONE.
3. Press ◀ or ▶ to highlight ON.

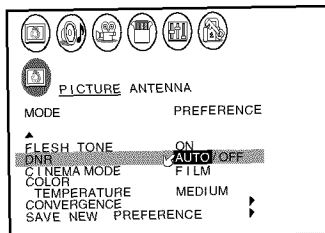


Using the Digital Noise Reduction (DNR) feature

The DNR reduces visible interference in the TV picture. This is useful when receiving a broadcast with a weak signal or playing a video cassette or disc damaged by repeated use.

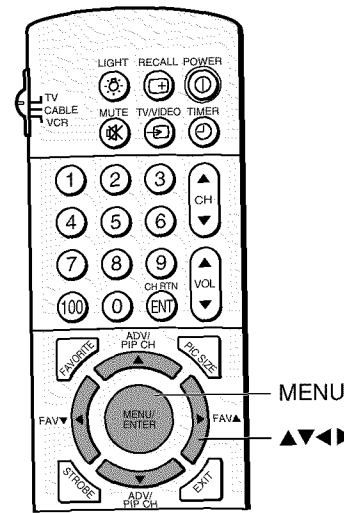
To turn on the DNR feature:

1. Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
2. Press ▲ or ▼ to highlight DNR.
3. Press ◀ or ▶ to highlight AUTO.



To turn off the DNR feature:

Highlight OFF in step 3 above.

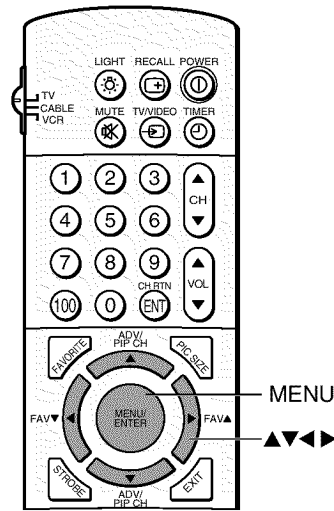
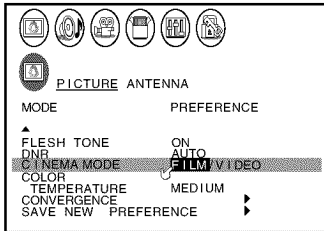


Selecting the cinema mode

When viewing a DVD movie (3-2 pulldown processed) from a DVD player connected to the ColorStream (component video) inputs on the TV, a smoother picture can be obtained by setting the CINEMA mode to FILM.

To set the cinema mode to FILM:

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



To turn off the cinema mode:

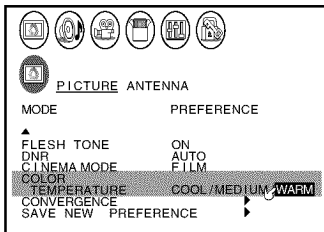
Select VIDEO in step 3 above.

Selecting the color temperature

You can change the quality of the picture by selecting from three preset color temperatures: cool, medium, and warm.

To select the color temperature:

1. Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
2. Press ▲ or ▼ to highlight COLOR TEMPERATURE.
3. Press ◀ or ▶ to highlight the mode you prefer.



Mode	Picture Quality
cool	blueish
medium	neutral
warm	reddish

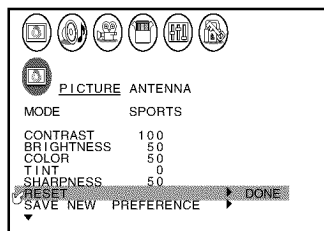
Resetting the picture adjustments

The RESET function resets the picture qualities to the following factory settings:

Contrast	max (100)	Color temperature	cool
Brightness	center (50)	DNR	auto
Color	center (50)	Mode	sports
Tint	center (0)		
Sharpness	center (50)		

To reset the picture adjustments:

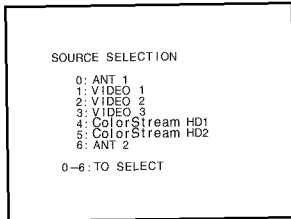
1. Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
2. Press ▲ or ▼ to highlight RESET.
3. Press ◀ or ▶. The menu displays "DONE."



Selecting the video input source

Press the TV/VIDEO button on the remote control (or TV) to view a signal coming from another device connected to the TV, such as a VCR or video disc player. You can select ANT 1, VIDEO 1, VIDEO 2, VIDEO 3, ColorStream HD1, ColorStream HD2, or ANT 2, depending on which input jacks are used for connecting the devices (see "Connecting your TV" on page 5.)

The following on-screen display appears if you press the TV/VIDEO button on the remote control. If you press the TV/VIDEO button on the TV, a different menu displays (see page 18).



While the above menu is on the screen, you can select the desired signal input source by pressing the corresponding number button (0-6).

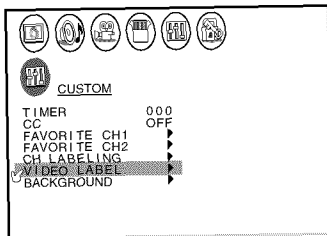
Labeling the video input sources

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

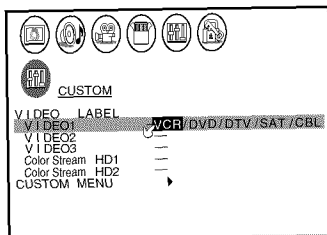
- : Uses the default label name
- VCR : Video cassette recorder
- DVD : DVD video
- DTV : Digital TV set-top box
- SAT : Satellite box
- CBL : Cable box

To label the video input sources:

1. Press MENU, and then press ◀ or ▶ until the CUSTOM menu appears.
2. Press ▲ or ▼ to highlight VIDEO LABEL.



3. Press ◀ or ▶ to display the VIDEO LABEL menu.
4. Press ▲ or ▼ to highlight the video source to label.
5. Press ◀ or ▶ to select the desired label for that input source.

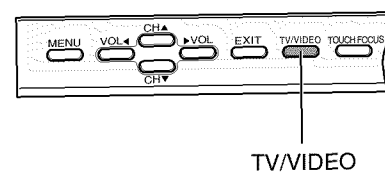


6. Finish labeling the other video sources as desired. To return to the previous menu, press ▲ or ▼ to highlight CUSTOM MENU, and then press ◀ or ▶.
7. To close the menu, press EXIT.

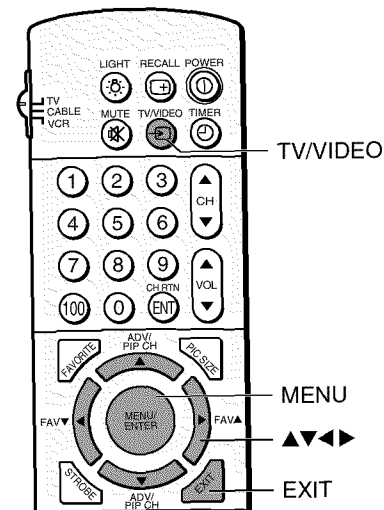
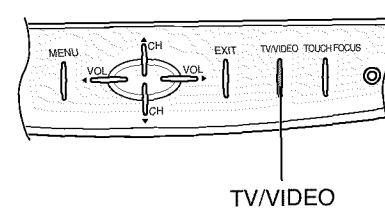
Note:

- When ColorStream HD 1 or HD 2 is selected, the video OUT jack does not output a signal. To receive a video OUT signal, use a video or S-video IN connection instead of the ColorStream connection.
- If you select ColorStream HD1 or HD2 while a PIP window is open, the PIP window will close.

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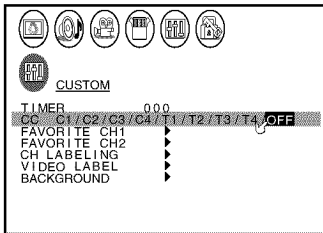
Using the closed caption feature

The closed caption feature has two options:

- Captions—An on-screen display of the dialogue, narration, and sound effects of TV programs and videos that are closed captioned (usually marked as “CC” in TV listings).
- Text—An on-screen display of information not related to the current program, such as weather or stock data (when provided by individual stations).

To view captions or text:

1. Tune the TV to the desired program.
2. Press MENU, and then press ◀ or ▶ until the CUSTOM menu appears.
3. Press ▼ or ▲ to highlight CC.



4. Press ◀ or ▶ to highlight the desired closed caption mode, as follows:

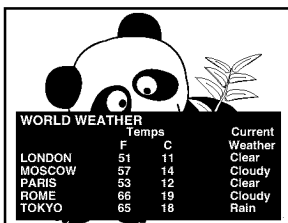
- To view captions, highlight C1, C2, C3, or C4 (C1 displays translation of the primary language in your area).

Note: If the program or video you selected is not closed captioned, no captions will display on-screen.



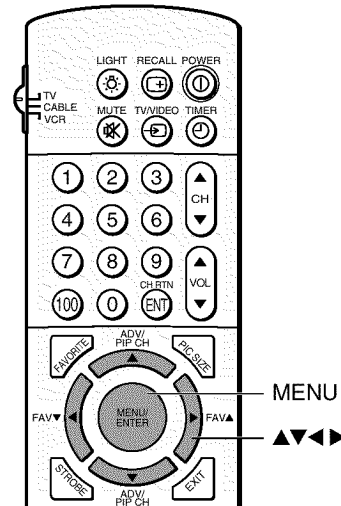
- To view text, highlight T1, T2, T3, or T4.

Note: If text is not available in your area, a black rectangle may appear on-screen. If this happens, turn off the Closed Caption feature.



To turn off the Closed Caption feature:

Highlight OFF in step 4.



Note:

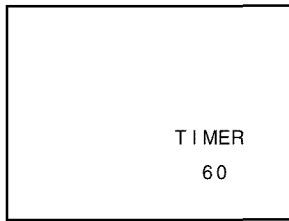
A closed caption signal may not display in the following situations:

- when a videotape has been dubbed
- when the signal reception is weak
- when the signal reception is nonstandard

Setting the sleep timer

To set the sleep timer to turn off the TV automatically:

1. Press **TIMER** to set the length of time until the TV turns off.



Every time you press **TIMER**, the time display will increase by 10 minutes, up to 180 minutes.

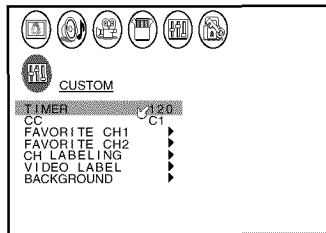
10 → 20 → 30 → 40 → 50 → 60 → 70 → 80 → 90 → 100 → 110 → 120 → 130 → 140 → 150 → 160 → 170 → 180 → 0 → 10 MIN.

To cancel the sleep timer:

Press **TIMER** until it is set to 0.

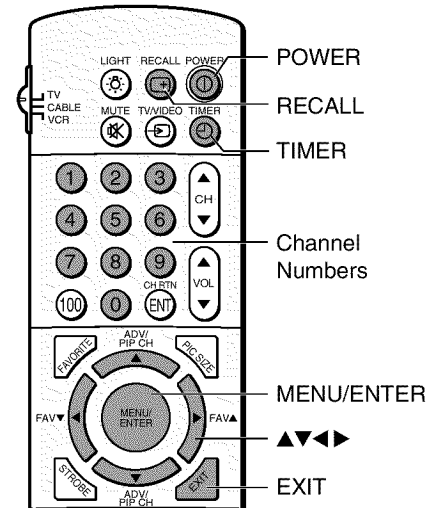
The timer can also be set using the on-screen menu:

1. Press **MENU**, and then press **◀** or **▶** until the **SETUP** menu appears.
2. Press **▲** or **▼** to highlight **TIMER**.
3. After the number position starts to blink, press the Channel Number buttons (0–9) to enter the length of time until the TV turns off automatically.
4. Press **ENTER** to start the timer.



Note :

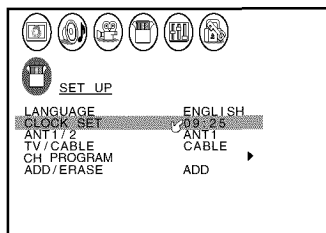
* To display the amount of time left until the TV turns off automatically, press **TIMER** once.



Setting the clock

To set the clock:

1. Press **MENU**, and then press **◀** or **▶** until the **SET UP** menu appears.
2. Press **▲** or **▼** to highlight **CLOCK SET**.
3. After the number position starts to blink, press the Channel Number buttons (0-9) to enter the correct time. The clock operates on a 12-hour cycle.
4. Press **ENTER** to start the clock.



Note :

If the TV's power source is interrupted (the power cord is unplugged or a power failure occurs), the clock must be reset.

To display the time on-screen:

Press **RECALL**.

Adjusting the sound

Muting the sound

Press MUTE to temporarily turn off the sound. While the sound is off, the screen will display “1/2 MUTE” or “MUTE” in the lower right corner. Every time MUTE is pressed, the mute mode will change in the following order.

→ Normal → 1/2 MUTE → MUTE →

When you select “MUTE” mode, the closed caption feature is automatically activated. To deactivate this feature, press MUTE again. This feature works only when the closed caption mode is set to OFF. See “Using the closed caption feature” on page 40 for more information.

Selecting stereo/SAP broadcasts

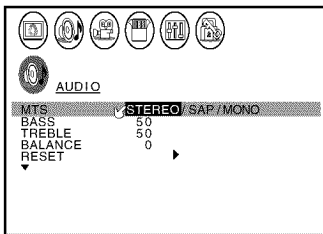
The multi-channel TV sound (MTS) feature allows you to listen to high-fidelity stereo sound while watching TV. MTS can also transmit a second audio program (SAP) containing a second language, music, or other audio information (when provided by individual stations).

When the TV receives a stereo or SAP broadcast, the word STEREO or SAP appears on-screen every time the TV is turned on, the channel is changed, or the RECALL button is pressed.

The MTS feature is not available when the TV is in VIDEO mode.

To listen to stereo sound:

1. Press MENU, and then press ◀ or ▶ until the AUDIO menu appears.
2. Press ▲ or ▼ to highlight MTS.
3. Press ◀ or ▶ to highlight STEREO.

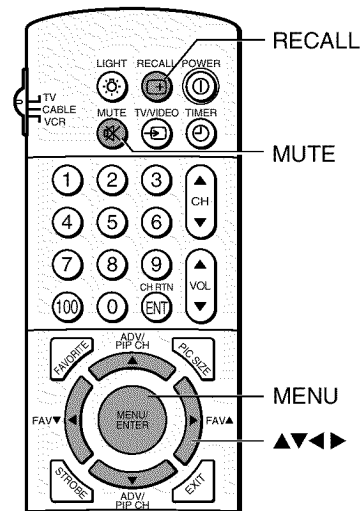


You can leave the TV in STEREO mode because it will automatically output the type of sound being broadcast (stereo or monaural). The word “STEREO” or “SAP” displays in yellow in the menu when the TV receives the signal.

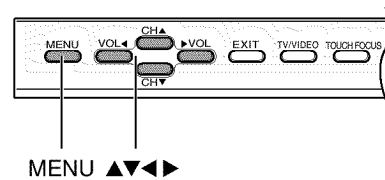
If the stereo sound is noisy, select MONO to reduce the noise.

To listen to SAP (if available):

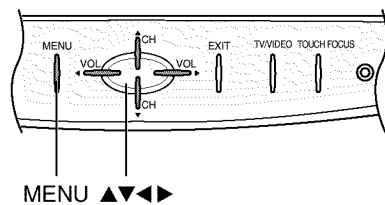
1. Press MENU, and then press ◀ or ▶ until the AUDIO menu appears.
2. Press ▲ or ▼ to highlight MTS.
3. Press ◀ or ▶ to highlight SAP. You will hear the station’s second audio program (if available) from the speakers, while viewing the original program’s picture (see note at right).



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Note :

A second audio program (SAP) can be heard only on those TV stations that offer it.

For example, a station might broadcast music as a second audio program. If you have SAP on, you will see the current program on the screen but hear music instead of the program’s normal audio.

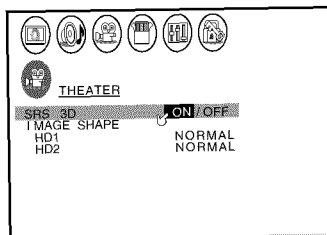
However, if you have SAP on, and the station you are watching is not currently broadcasting a second audio program, you will see the picture but not hear any sound. If this happens, put the TV in STEREO mode so you can hear the station’s normal audio.

Using the SRS 3D surround sound feature

The SRS 3D surround sound feature expands the audio listening field wider and deeper to create exceptional sound quality from the TV's speakers. The feature uses stereo signals from a TV broadcast or video input.

To turn on the SRS 3D surround sound:

1. Select STEREO mode (see "Selecting stereo/SAP broadcasts" on page 42).
2. Press MENU, and then press ◀ or ▶ until the THEATER menu appears.
3. Press ▲ or ▼ to highlight SRS 3D.
4. Press ◀ or ▶ to highlight ON.



To turn off the SRS 3D surround sound:

Highlight OFF in step 4 above.

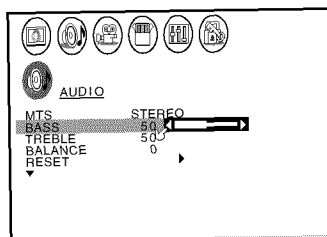
In general, you can leave the SRS 3D surround mode on because the TV will automatically produce the type of sound being broadcast (surround stereo or monaural).

Adjusting the sound quality

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

To adjust the sound quality:

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

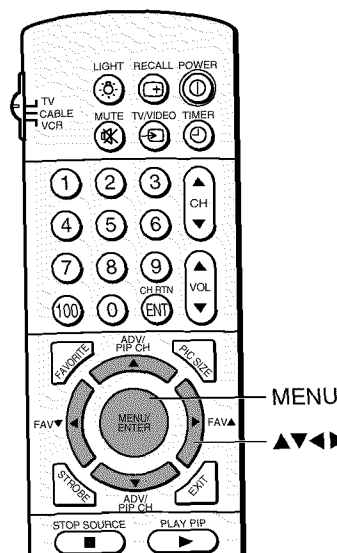


3. Press ◀ or ▶ to adjust the level.

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

Note:

If the broadcast is monaural, the SRS 3D effect does not work.



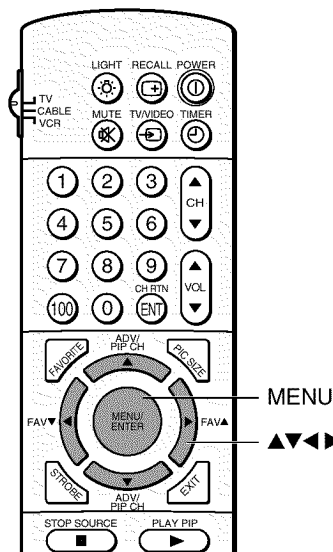
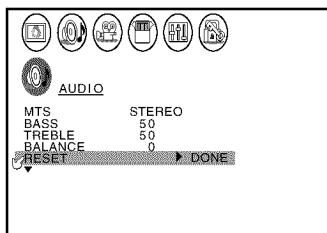
Resetting the audio adjustments

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

- Bass center (50)
- Treble center (50)
- Balance center (0)

To reset the audio adjustments:

1. Press MENU, and then press ◀ or ▶ until the AUDIO menu appears.
2. Press ▲ or ▼ to highlight RESET.
3. Press ◀ or ▶. The menu displays "DONE."

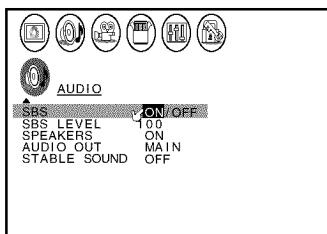


Using the sub-bass system (SBS)

The sub-bass system allows you to enhance bass performance, even when the volume is low.

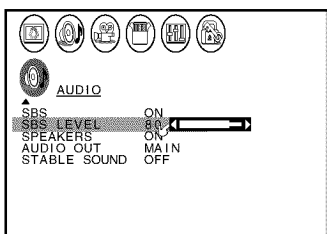
To turn on the SBS:

1. Press MENU, and then press ◀ or ▶ until the AUDIO menu appears.
2. Press ▲ or ▼ to highlight SBS.
3. Press ◀ or ▶ to highlight ON.



To adjust the SBS level:

4. Press ▲ or ▼ to highlight SBS LEVEL.
5. Press ◀ or ▶ to adjust the SBS level.



To turn off the SBS:

Highlight OFF in step 3 above.

Note:

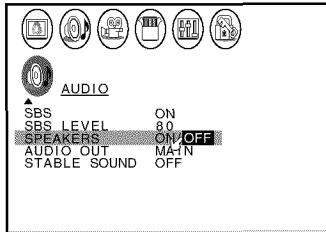
The SBS signal does not pass through the "Variable Audio OUT" jacks (see "Connecting an audio system" on page 11); however, the AUDIO menu will appear when the buttons are pressed.

Turning off the built-in speakers

Use this feature to turn off the TV speakers when an audio system is connected (see “Connecting an audio system” on page 11).

To turn off the built-in speakers:

1. Press MENU, and then press ◀ or ▶ until AUDIO menu appears.
2. Press ▲ or ▼ to highlight SPEAKERS.
3. Press ◀ or ▶ to highlight OFF.



To turn on the built-in speakers:

Highlight ON in step 3 above.

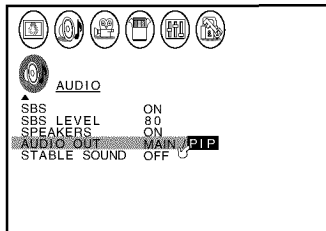
Selecting the Audio OUT sound

This feature allows you to select the sound source (MAIN or PIP) that is output from the Audio OUT jacks.

This is useful when amplifying or recording the PIP/Double-Window sound with external equipment while hearing the sound of the main picture through the built-in speakers.

To select the Audio OUT sound:

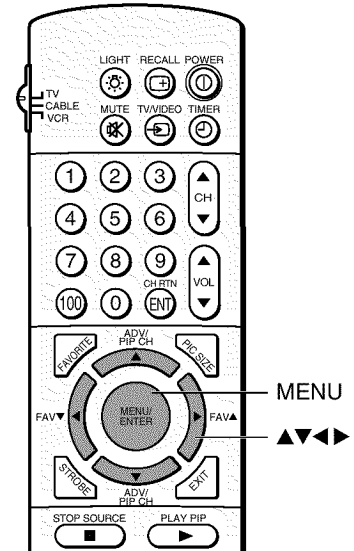
1. Press MENU, and then press ◀ or ▶ until the AUDIO menu appears.
2. Press ▲ or ▼ to highlight AUDIO OUT.
3. Press ◀ or ▶ to select MAIN or PIP.



- MAIN: Outputs the sound of the main program.
- PIP : Outputs the sound of the PIP program.

Note:

Make sure the volume control of the audio amplifier is at a moderate listening level.

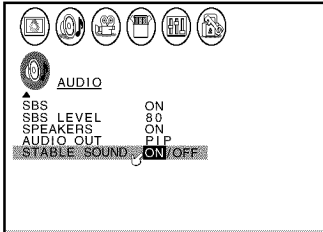


Using the StableSound™ feature

When the signal source is changed, the stable sound feature limits the high volume level to prevent extreme changes in volume. For example, this will prevent the sudden increase in volume that often happens when a TV program switches to a commercial.

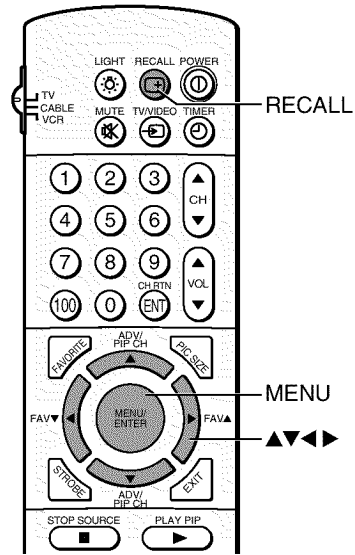
To turn on the StableSound feature:

1. Press MENU, and then press ◀ or ▶ until the AUDIO menu appears.
2. Press ▲ or ▼ to highlight STABLE SOUND.
3. Press ◀ or ▶ to select ON.



Note:

When the StableSound™ feature is on, the SRS 3D surround sound feature is automatically turned off (see page 43).

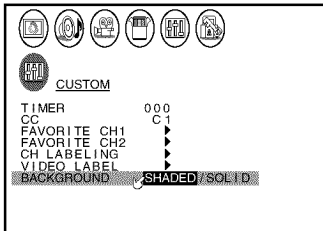


Selecting the background of the menu display

You can change the background of the menu display by selecting from two preset types: shaded and solid (gray).

To select the background:

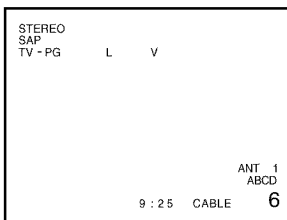
1. Press MENU, and then press ◀ or ▶ until the CUSTOM menu appears.
2. Press ▲ or ▼ to highlight BACKGROUND.
3. Press ◀ or ▶ to select either a SHADED or SOLID background.



Displaying information on-screen

Press RECALL to display the following information on-screen:

- Antenna mode (when in TV mode)
- Channel number or VIDEO mode selected
- Time (if set)
- Channel label (if set)
- Stereo or SAP audio status
- V-CHIP rating status



Viewing the demonstration mode

The demonstration mode is an option available in the MENU button on the TV front panel that will demonstrate several of the TV's features.

To start the demo:

Press and hold MENU on the TV front panel for 4 seconds.

To stop the demo:

Press RECALL, EXIT, or POWER.

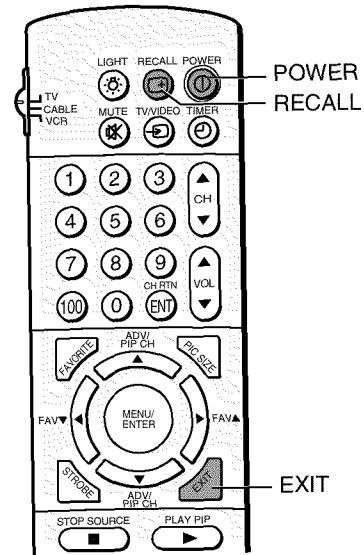
Understanding the auto power off feature

The TV will automatically turn itself off after approximately 15 minutes if it is tuned to a vacant channel or a station that completes its broadcast for the day. This feature does not work in VIDEO mode.

Understanding the last mode memory feature

If the power is cut off while you are viewing the TV, the Last Mode Memory feature turns the TV on automatically when the power is resupplied.

If the power is going to be off for a long time and you are going to be away from the TV, unplug the power cord to prevent the TV from turning on in your absence.



Appendix

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

43H71: 207 W (average)

53H71: 204 W (average)

61H71: 204 W (average)

Audio Power

15 W + 15 W

Speaker Type

43H71: Two 4-3/4 inches (12 cm) round

53H71: Two 6-5/16 inches (16 cm) round

61H71: Two 6-5/16 inches (16 cm) round

Video/Audio Terminals

S-VIDEO INPUT

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

C : 0.286 V(p-p) (burst signal), 75 ohm

VIDEO/AUDIO INPUT

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

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

ColorStream® (component video) INPUT

Y : 1V(p-p), 75 ohm

PR: 0.7 V(p-p), 75 ohm

PB: 0.7 V(p-p), 75 ohm

AUDIO: 150 mV(rms), 47 kohm

VIDEO/AUDIO OUTPUT

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

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

VARIABLE AUDIO OUTPUT

0–300 mV(rms) (30% modulation equivalent, 4.7 kohm)

AUDIO CENTER CHANNEL INPUT

300 mV(rms) (30% modulation equivalent, 10 kohm)

Dimensions

43H71: Width 37-11/16 inches (958 mm)

Height 42-7/8 inches (1089 mm)

Depth 20-1/16 inches (510 mm)

53H71: Width 45-1/16 inches (1144 mm)

Height 53-7/16 inches (1357 mm)

Depth 22-13/16 inches (580 mm)

61H71: Width 51-1/16 inches (1297 mm)

Height 57-3/16 inches (1452 mm)

Depth 25-9/16 inches (649 mm)

Mass

43H71: 118 lbs (53,5 kg)

53H71: 240 lbs (109 kg)

61H71: 288 lbs (130,6 kg)

Stand

43H71: ST4351

53H71: —

61H71: —

Supplied Accessories

Remote Control with 2 size “AA” alkaline batteries

Design and specifications are subject to change without notice.

Troubleshooting

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

Problem	Solution
TV will not turn on	<ul style="list-style-type: none">• Make sure the power cord is plugged in, and then press POWER.• The remote control batteries may be dead. Replace the batteries.
No picture, no sound	<ul style="list-style-type: none">• Check the antenna/cable connections.
No sound, picture OK	<ul style="list-style-type: none">• The sound may be muted. Press VOLUME.• The station may have broadcast difficulties. Try another channel.• Check that the SPEAKERS function in AUDIO menu is set properly.
Poor picture, sound OK	<ul style="list-style-type: none">• Check the antenna connections.• The station may have broadcast difficulties. Try another channel.• Adjust the PICTURE menu.
Poor reception of broadcast channels	<ul style="list-style-type: none">• The station may have broadcast difficulties. Try another channel.• Check the antenna connections.• If you are using a VCR, make sure the TV/VCR button is set correctly.
Cannot receive above channel 13	<ul style="list-style-type: none">• Make sure the TV/CABLE switch is set to the mode that corresponds with the signal source type (cable company or outside antenna).
Black box appears on the screen	<ul style="list-style-type: none">• The closed caption feature may be set to one of the Text modes (T1, T2, T3, or T4). Turn closed captioning OFF.
Unable to select a certain channel	<ul style="list-style-type: none">• The channel may be locked out with the CH LOCK feature, or erased with the ADD/ERASE feature.
Multiple images	<ul style="list-style-type: none">• The station may have broadcast difficulties. Try another channel.• Antenna reception may be poor. Use a highly directional outdoor antenna.
Poor color or no color	<ul style="list-style-type: none">• The station may have broadcast difficulties. Try another channel.• Adjust the TINT and/or COLOR in the PICTURE menu.
No stereo or SAP sound from a known MTS broadcast	<ul style="list-style-type: none">• Make sure the MTS feature is set properly.
The front panel buttons do not operate	<ul style="list-style-type: none">• Make sure the FRONT PANEL LOCK feature is off.
The remote control does not operate	<ul style="list-style-type: none">• Make sure the TV/CABLE/VCR switch is set properly.• Remove all obstructions between the remote control and the remote control sensor in the TV.• The remote control batteries may be dead. Replace the batteries.
Cannot access signal input sources (Video1, Video2, Video3, ColorStream HD1/HD2) and/or Channels 3 and 4.	<ul style="list-style-type: none">• Check the VIDEO LOCK feature.

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 or replace a defective part, at their option, with a new or refurbished part, without charge to you. TACP/THI Authorized 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.

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 repair or replace a defective picture tube at their option, with a new or refurbished picture tube, without charge to you, except that if a defective picture tube is replaced after one (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) Warranties 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 been modified or 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 "Troubleshooting" section, you find that service is needed:

- (1) Call the TACP toll-free number 1-800-631-3811 to find the nearest TOSHIBA Authorized Service Station. In Hawaii, contact Toshiba Hawaii, Inc. 327 Kamakee Street, Honolulu, Hawaii 96814 (808) 591-9281
- (2) 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."

**For additional information,
visit our web site:
www.toshiba.com**

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.

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