TOSHIBA

OWNER'S MANUAL

Color Television

COLOR STREAM™

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: CN36Z71

Serial number:

CN36Z71

TOSHIBA CORPORATION, 1999

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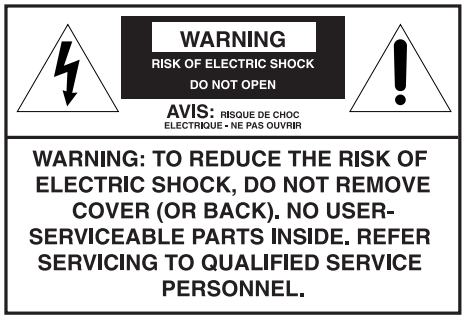
Important Information

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

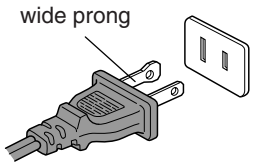
TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED PLUG WITH AN EXTENSION CORD RECEPTACLE OR OTHER OUTLET UNLESS THE PRONGS CAN BE FULLY INSERTED INTO THE OUTLET TO PREVENT ANY EXPOSURE OF THE PRONGS ON THE POLARIZED PLUG.

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.

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.
- This TV set may be used only with Toshiba stand shown on page 42. Use with other stands may result in instability causing possible injury.
- Place the TV far enough away from the walls to allow proper ventilation. This will prevent the TV from overheating and avoid possible damage to the TV. Avoid dusty places too.

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.
- Avoid displaying stationary images on your TV screen for extended periods of time. Stationary patterns generated by a picture-in-picture (PIP) display, Multi-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, Multi-Window, computer, or video game display unattended.

Cleaning your TV

- To clean the TV screen:
  1. First remove the plug from the power outlet to avoid possible shock hazard.
  2. Use a clean cellulose sponge or chamois cloth dampened with a solution of mild detergent and warm water to clean TV screen and trim. Do not use too much water on the TV screen. Water spills into the cabinet and may cause damage to the TV. Avoid excess water.
  3. Remove any extra moisture with the same cloth or a dry one.
- To maintain the finish and appearance of the cabinet, polish it from time to time with a quality furniture polish.

CAUTION

Never use strong solvents such as thinner, benzene or other chemicals on or near the cabinet, as they might damage the finish of the cabinet.

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Introduction

Welcome to Toshiba

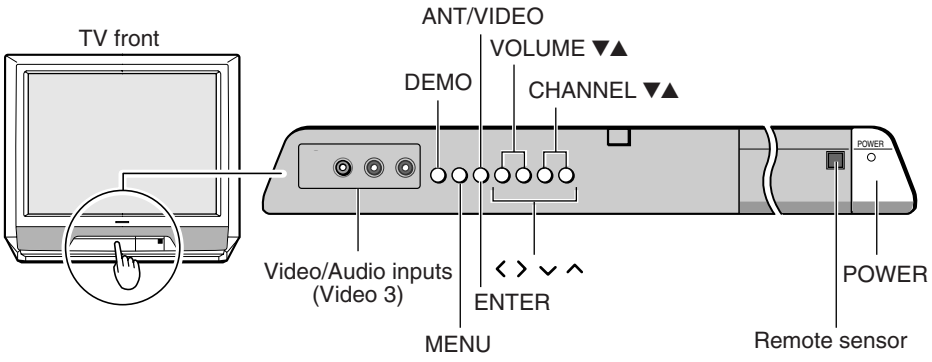
Congratulations! You have purchased one of the finest TV's on the market. The goal of this manual is to guide you through setting up and operating your Toshiba TV as quickly as possible.

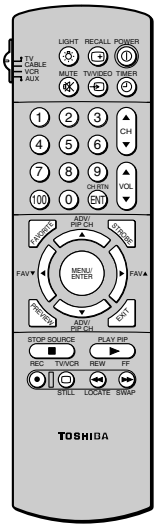
Instructions in this manual are based on using the remote control. You can also use the controls on the TV if they have the same name as those on the remote control.

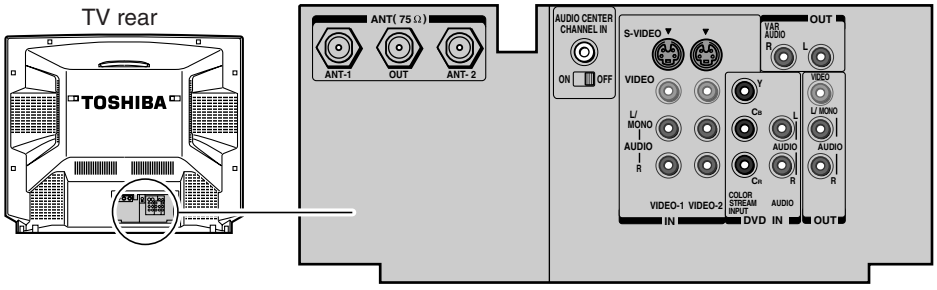
Please read all the safety and operating instructions carefully, and keep the manual for future reference.

Exploring your new TV

You can operate your TV by using the buttons on the front panel or the remote control. The back panel and front panel (behind the door) provide all the terminal connections you will need to connect other equipment to your TV.







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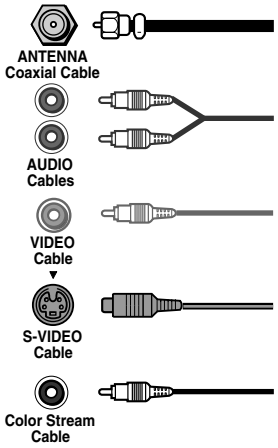
Connecting your TV

If you haven't 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. If you look at the rear panel of the TV, you will see that 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™ cables come in sets of three and provide the best picture performance. ColorStream cables can only be used with ColorStream compatible components.



Caution:

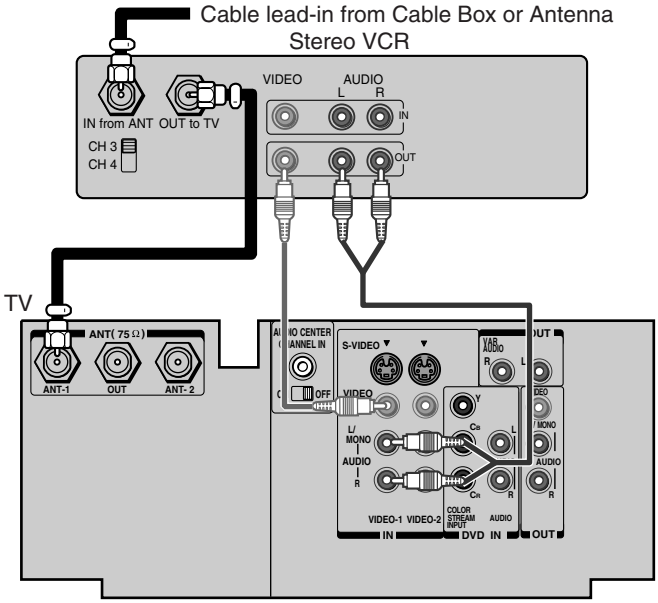
Do not plug the TV in until you have finished connecting all of your equipment.

Connecting a VCR

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

You will need:

- one coaxial cable
- one pair of audio cables (only one cable for a mono VCR)
- one video cable



Caution:

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

If you have a S-VHS VCR, use the S-video connections and remove the video cable.

Do not connect the video cable and the S-video cable to Video-1 simultaneously.

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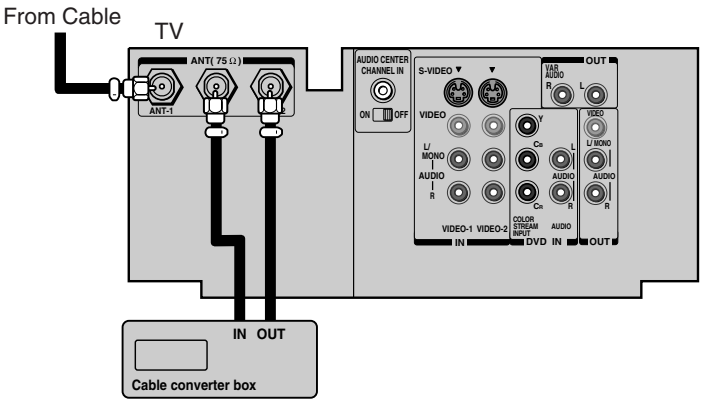
Connecting a cable converter box

This connection allows you to watch cable and premium channels.

You should keep your TV selected to ANT-1 so that you can use the TV features. When viewing premium channels, select ANT-2 and tune the TV to channel 3 or 4 (whichever channel is vacant in your area), then use the converter box to change channels.

You will need two coaxial cables.



Note:

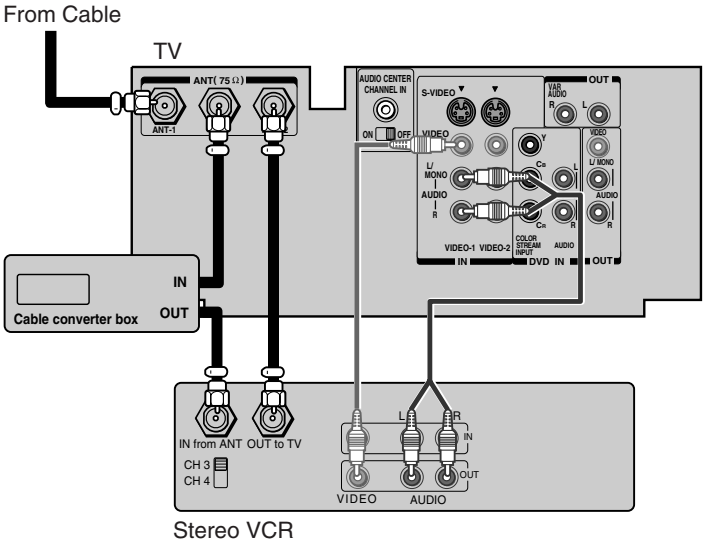
When you use a converter box with your TV, there may be features that you can not program using the remote control, such as programming your favorite channels, labeling channels, and blocking channels.

Connecting a cable converter box and a VCR

This connection allows you to watch and record basic and premium cable channels, as well as watch videotapes. You should keep your TV selected to ANT-1 so that you can use the TV's features. When viewing premium channels or recording with the VCR, select ANT-2 and change the TV channel to 3 or 4 (whichever channel is vacant in your area), then use the converter box to change channels.

You will need:

- three coaxial cables
- one pair of audio cables (only one cable for a mono VCR)
- one video cable



Caution:

If you want to record one channel while watching another channel, a splitter (not included) must be added between the cable and ANT-1. One output of the splitter goes to ANT-1 and the second output is connected to IN on the cable converter box.

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

If you have a S-VHS VCR, use the S-video connections and remove the video cable. Do not connect the video cable and the S-video cable to Video-1 simultaneously.

When you use a converter box with your TV, there may be features that you can not program using the remote control, such as programming your favorite channels labeling channels, and blocking channels.

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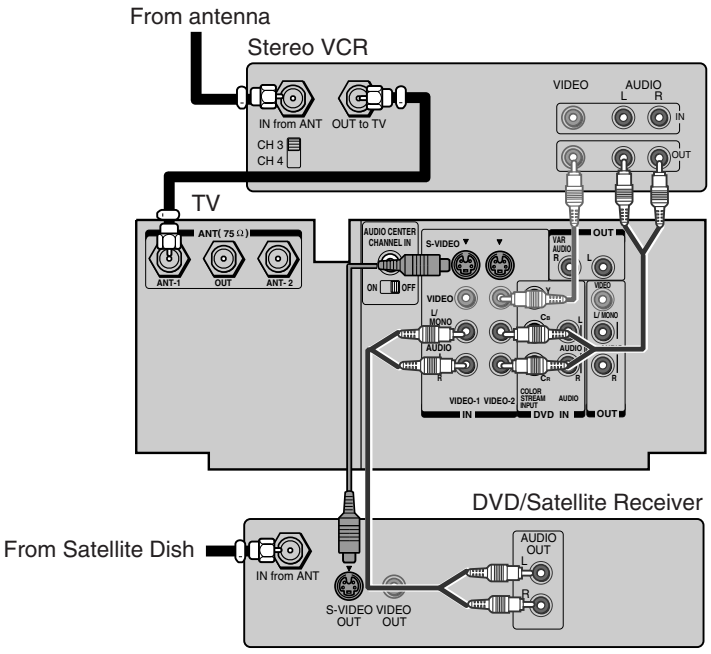
Connecting a DVD/satellite receiver and a VCR

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

You will need:

- one coaxial cable
- two pairs of audio cables (only one cable for a mono VCR)
- one video cable
- one S-video cable



Caution:

You can use a video cable instead of the S-video cable, but the picture quality will decrease. If you use a S-video cable between the TV and DVD/satellite receiver, make the audio connections only and remove the video connection.

Do not connect the video cable and the S-video cable to Video-1 simultaneously.

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

Connecting a DVD with ColorStream™ and a VCR

This connection allows you to watch DVD, video or TV programs and to record DVD or TV programs. You can record from one source and watch a program from another source. Your TV is capable of using ColorStream (component video). Connecting your TV to a ColorStream compatible DVD, such as a Toshiba DVD, can greatly enhance picture quality and performance.

You will need:

- one coaxial cable
- three pairs of audio cables (only one cable for a mono VCR)
- two video cables
- one set of ColorStream video cables

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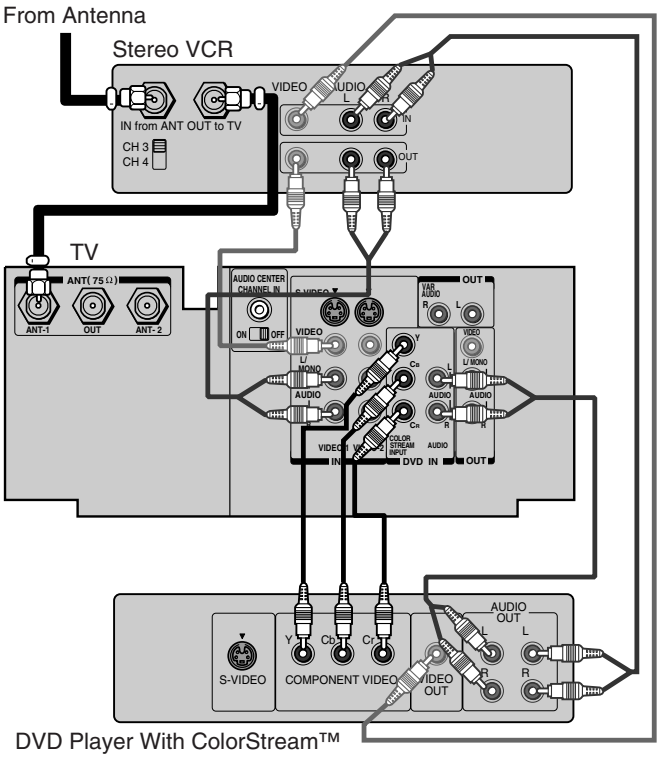


DVD Player With ColorStream™

Caution:

To play from the DVD, the DVD and TV must use ColorStream connections. To record from the DVD, the DVD and TV must select Video.

To monitor recording from the DVD, the VCR must select Line IN, and the TV must select Video-1.

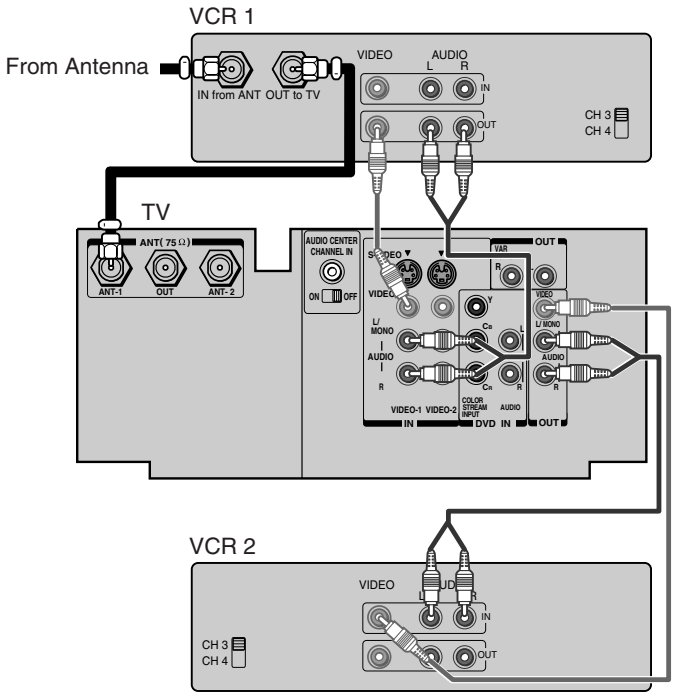
The unauthorized recording of television programs, video tapes and other materials may infringe upon the provisions of copyright laws.

Connecting two VCRs

This connection allows you to record (dub/edit) from one VCR to another VCR while watching a video program. You will also be able to record from one TV channel while watching another channel.

You will need:

- one coaxial cable
- two pairs of audio cables (only two cables for mono VCRs)
- two video cables



Caution:

Do not connect one VCR to the output and input jacks on the TV at the same time. If you are using a S-VHS VCR, use the S-video connections and remove the video cable. Do not connect the video cable and the S-video cable to Video-1 simultaneously.

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

Note:

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

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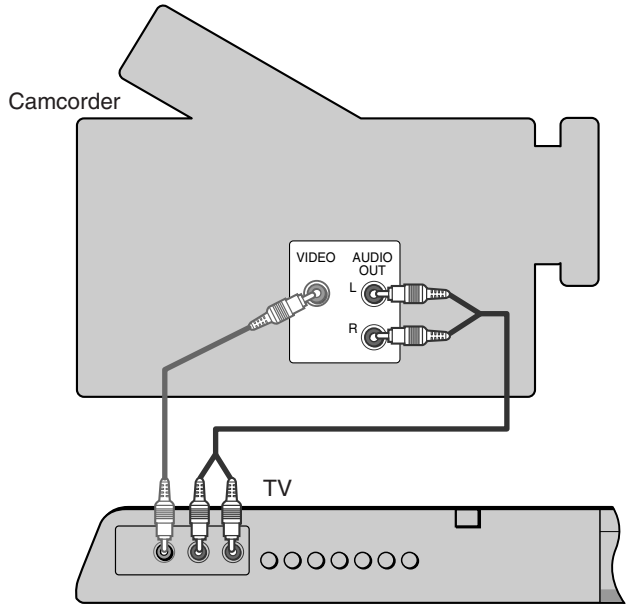
Connecting a camcorder

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

You will need:

- one pair of audio cables
- one video cable

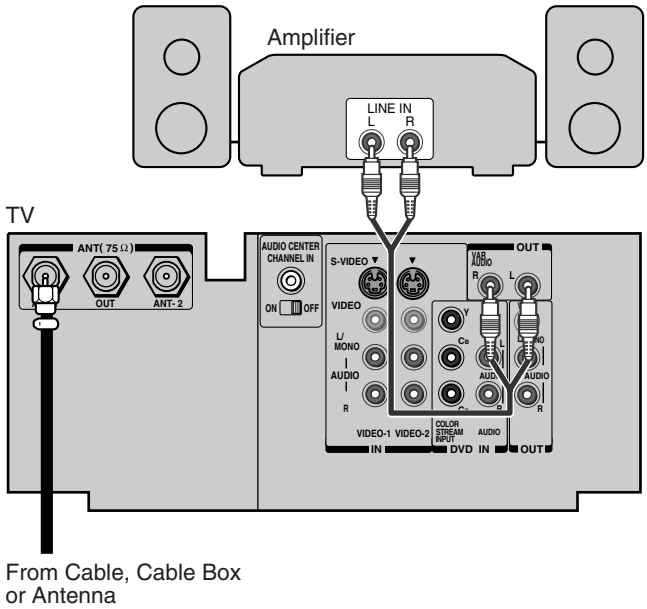


Connecting an audio system

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, then turn off the built-in speakers. (See“ Turning off the built-in speakers” on page 40.)

You will need one pair of audio cables.



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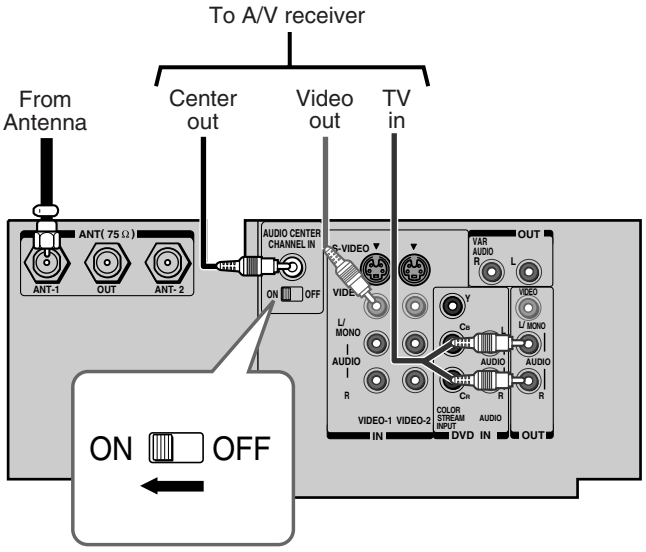
Connecting an A/V receiver

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

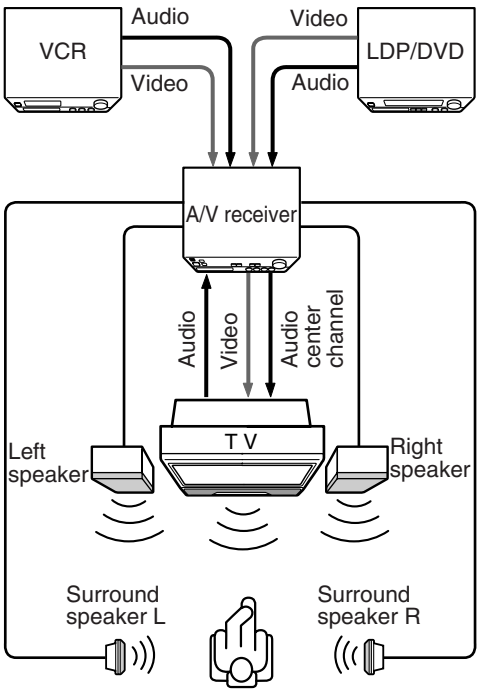
A center channel speaker adds to the realism of a surround sound system such as Dolby Pro Logic.

You will need:

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



Connection example of Dolby Pro Logic surround system



Caution:

Make sure the TV is turned off before connecting or disconnecting an audio cable to the Audio Center Channel IN jack. The speaker may be damaged.

Note:

Refer to the instructions furnished with the connected A/V receiver for detailed surround system.

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

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

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

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

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Using the remote control

Preparing the remote control for use

With the remote control, you can operate your TV, most VCR models, and cable TV converters together, even if they are different brands. If you will be using your TV with a Toshiba VCR, your remote control is already programmed and ready to use.

- If you own different brands of VCRs and/or converters, you first have to program your remote control. (See "Programming the remote control for use with a VCR or a cable TV converter" on page 12.)
- Also, this remote control is capable of learning operating codes from most infrared remote control transmitters. (See "Learning operating code of another remote controller" on page 15.)

Note:

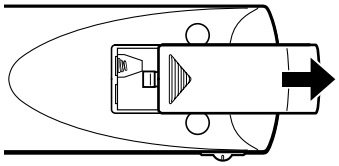
This remote control's functions may or may not operate your VCR or cable TV converter.

Refer to the owner's manuals supplied with the equipment to see which features are available. In addition, the original controllers may have features not available on this remote control. If you would like to continue to use these features, you may want to use the original remote control.

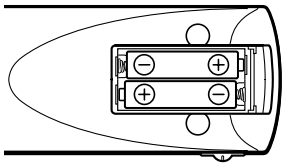
Installing the remote control batteries

To install the batteries:

1. Slide the battery cover off of the back of the remote control.



2. Install two "AA" size alkaline batteries. Match the + and - signs on the batteries to the signs on the battery compartment.



3. Slide the battery cover back on to the remote control until the lock snaps.

Caution:

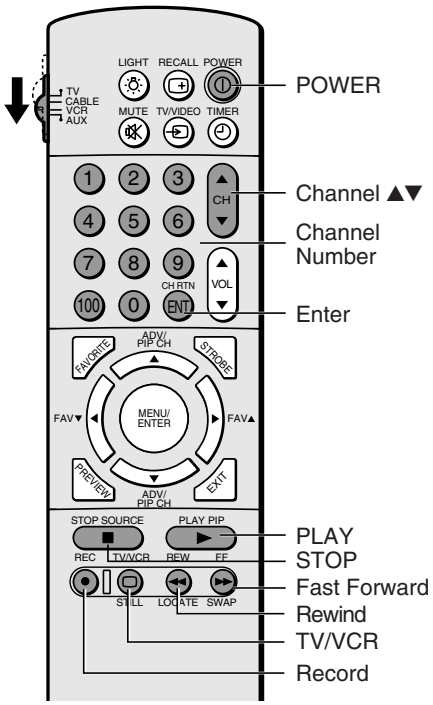
- *Dispose of your batteries in a designated disposal area. Do not throw your batteries into a fire.*
- *Do not mix battery types or combine used batteries with new ones.*
- *Remove dead batteries immediately to prevent battery acid from leaking into the battery compartment.*
- *If you do not intend to use the remote control for a long time, remove the batteries.*

Using the remote control with a VCR or a cable TV converter

To control a Toshiba VCR:

Set the TV/CABLE/VCR/AUX switch to the VCR position. The buttons shown to the right will then control the VCR. The rest of the buttons will operate the TV as usual.

If you own different brands of VCRs, program the remote control to recognize the brand of your VCR. (See "Programming the remote control for use with a VCR or a cable TV converter" on page 12.)



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To control a cable TV converter:

Program the remote control to recognize the brand of your converter. The shaded buttons will control the cable TV converter.

Set the TV/CABLE/VCR/AUX switch to the CABLE position.

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

This remote control is pre-programmed to operate Toshiba VCRs. To use VCRs or cable converters other than Toshiba models, you must follow the steps below before you operate your remote control.

1. Refer to the "VCR code table" or "Cable TV converter code table" on pages 13-14 to find the number that corresponds to the brand name of your VCR or converter.

   If more than one number 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/AUX switch on the remote control to VCR.
   - **cable converter,** set the TV/CABLE/VCR/AUX switch on the remote control to CABLE.
3. Hold down the RECALL button while using the Channel Number buttons to enter the three-digit code number of your brand of VCR or converter.

   The program indicator (LIGHT button) lights up for 1 second when the programming is completed.

   When an operation error has occurred, the indicator blinks.

   Press RECALL again to reset.
4. Point the remote control at the VCR or converter and press POWER to test the code number.

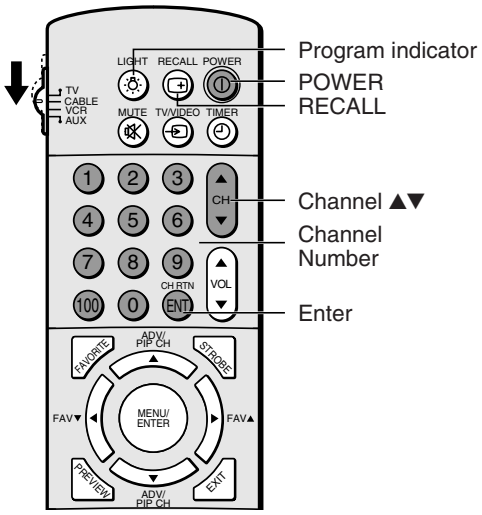
   If the VCR or converter turns on, you have entered the right number.

   If the VCR or converter does not respond to the remote control, you may have entered the wrong number. Repeat steps 1-4 with another code number.
5. Reset the TV/CABLE/VCR/AUX switch to TV to control the TV.

For future reference, write down the code numbers 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, it may not respond to any of the code numbers for your VCR brand name. In this case, set the switch to the other position (VCR1 or VCR2) and reprogram the remote control.

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VCR code table

Brand name	Code number
Adventura	019
Aiko	297
Aiwa	019
Akai	060, 068, 080, 125, 261
American High	054
Asha	259
Audiovox	056
Beaumark	259
Bell & Howell	123
Brandt	206
Broksonic	140, 203, 230, 314, 380
Calix	056
Canon	054
Capeheart	039
Carver	100
CCE	091, 297
Citizen	056, 297
Colt	091
Craig	056, 066, 091, 259
Curtis Mathes	054, 060, 079
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Cable TV converter code table

Brand name	Code number
ABC	022, 026, 027, 030, 032, 033, 036
Archer	058, 172
Century	172
Citizen	172
Colour Voice	044, 050
Comtronics	059, 079
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Viewstar	046, 079
Zenith	019
Zentek	419

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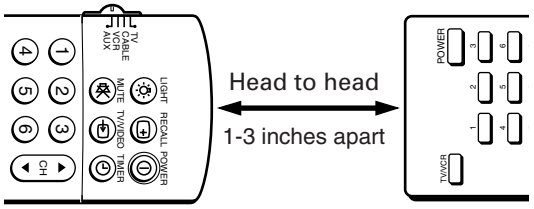
Learning operating code of another remote controller

This remote control is capable of learning operating codes from most infrared remote controllers. You can control the functions of your TV and a variety of video/audio equipment with the supplied remote control only.

The 21 buttons marked with ● can be used as the Learning buttons.

1. Set the TV/CABLE/VCR/AUX switch to "AUX" position.
2. Place the supplied remote control and the remote controller to be learned, head to head approximately 1 to 3 inches (3 to 8 cm) apart.

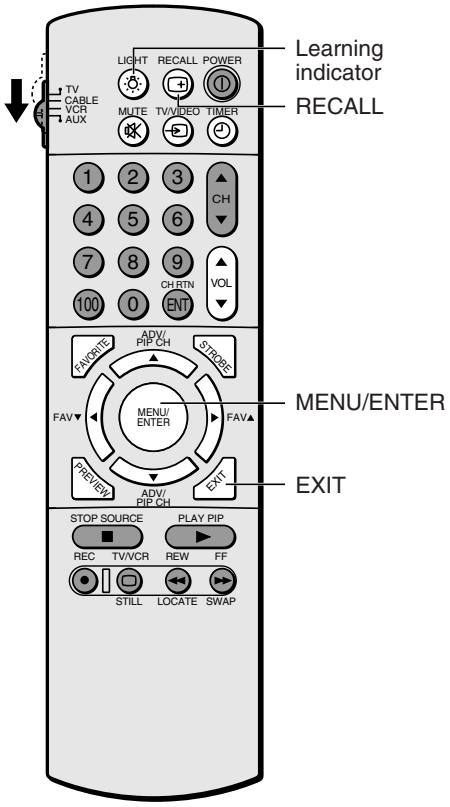


3. Hold down RECALL and MENU/ENTER at the same time to enter into the learning mode. The learning indicator will blink.
4. Hold down the Learning button (marked ●) on the supplied remote control until the learning indicator lights up.

   When you press a button other than a Learning button, the indicator will blink. (The button you pressed is not a Learning button.)
5. Hold down the button of the function to be learned on the other remote controller for about 3 seconds until the learning indicator starts blinking.

   Note: *If the learning indicator blinks rapidly, the supplied remote control cannot learn the operating code or an error has occurred. Try steps 4 and 5 again.*
6. Repeat steps 4 and 5 for storing other functions into other buttons.
7. Press EXIT to release the learning mode.
8. To check your programming, operate the appropriate equipment with the supplied remote control. If the equipment does not operate as expected, repeat steps 1 to 7.

   If necessary, try changing the distance between the two remote controllers.
9. Reset the TV/CABLE/VCR/AUX switch to "TV" position to control the TV.



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Learning about the remote control

POWER turns the TV on and off (pages 12, 37)

TIMER sets the TV to go off at a set time (page 37)

TV/VIDEO selects video input source (page 35)

Channel ▲▼ cycles through programmed channels (page 20)

TV/CABLE/VCR/AUX switches between TV, Cable/VCR and AUX (pages 12, 15)

Channel Numbers (0-9, 100) allow direct access to channels (page 20)

Volume ▲▼ adjusts the volume level

CH RTN returns to the last viewed channel (page 21)

MENU allows access to programming menus (page 17)

ENTER sets programmed menu information (pages 17, 21-23)

▲▼ ◄► selects or adjusts programming menus (page 17)

PIP Channel ▲▼ cycles through PIP channels (page 24)

FAV ▼▲ cycles through favorite channels (page 21)

EXIT exits programming menus (page 17)

PIP Functions allow access to PIP functions (pages 24, 25)

VCR Functions allow access to VCR functions (page 11)

- **STOP** press to stop a videotape
- **REC** press to start recording a videotape
- **PLAY** press to play a videotape
- **FF** press to fast forward a videotape
- **REW** press to rewind a videotape
- **TV/VCR** toggles between TV and VCR when viewing while recording

PREVIEW allows access to Multi-Window function (page 26)

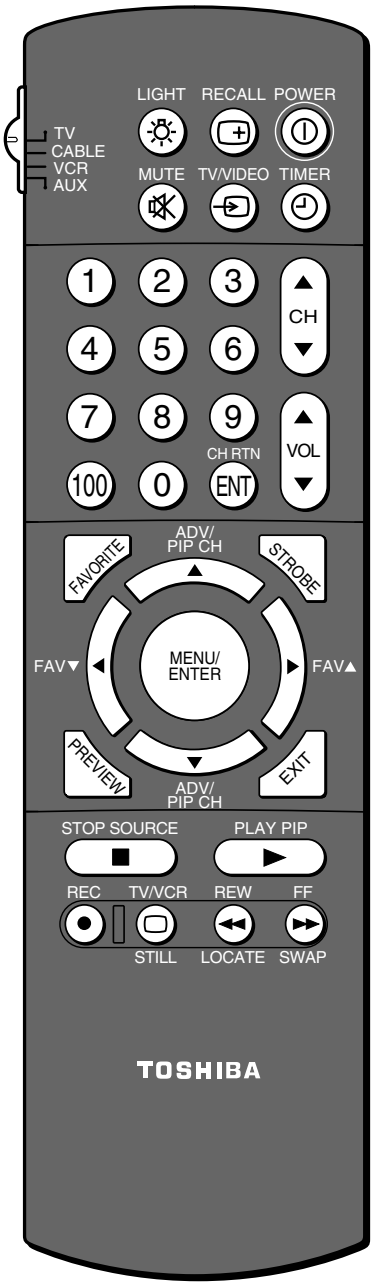
FAVORITE allows access to Multi-Window function (page 26)

STROBE allows access to Multi-Window function (page 26)

MUTE mutes the sound (page 38)

LIGHT press to back-light buttons for five seconds

RECALL displays screen information (page 35)



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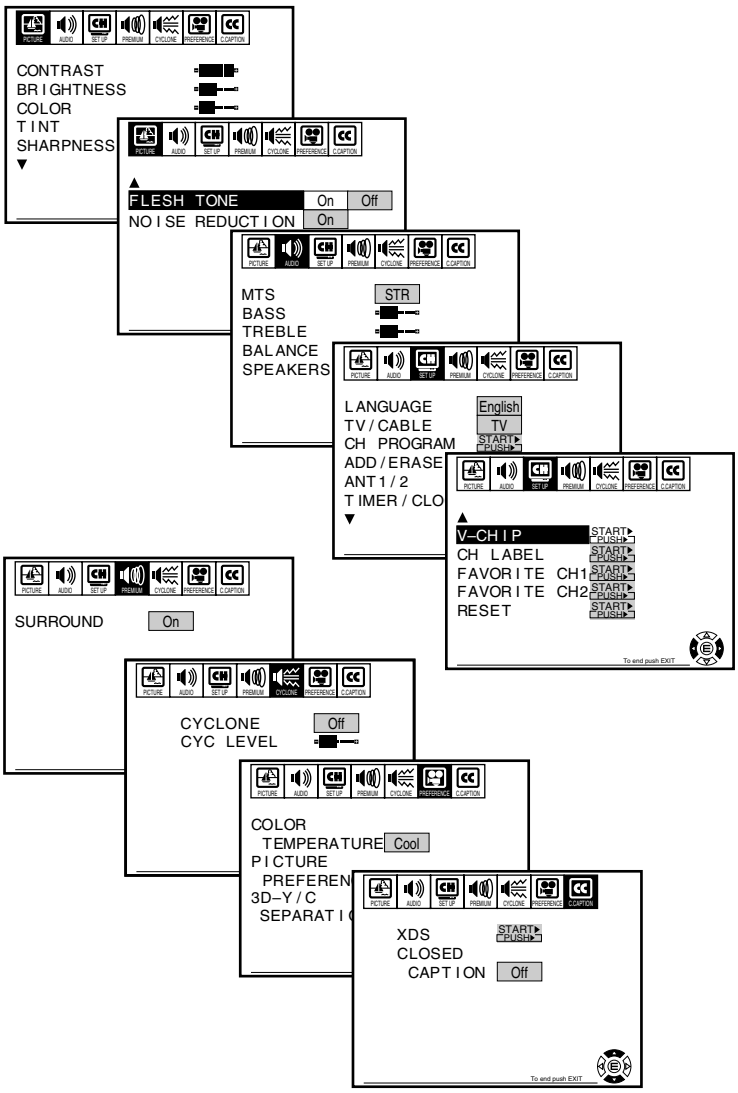
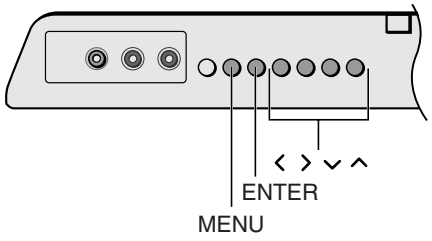
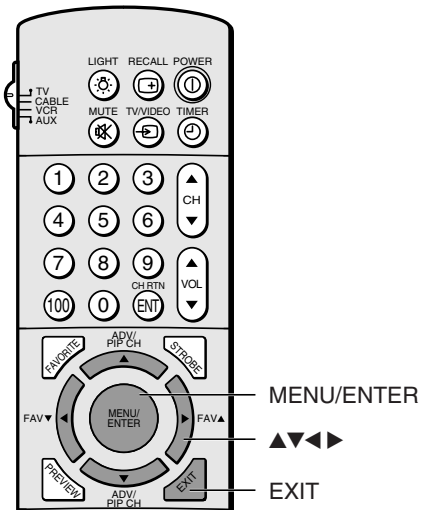
Setting up your TV

After you've installed the batteries and programmed the remote control, you need to set some preferences on the TV using the menu. You can access the menu with the buttons on your TV or by using the remote control.

1. Press MENU to display menu.
2. Press ◀ (‹) or ▶ (›) to select menu.
3. Press ▲ (^) or ▼ (⌄) select an item.
4. Press ◀ (‹) or ▶ (›) to select or adjust a setting.







- Use the ENTER button to activate the function settings in the SET UP menu.
- The main menu display will disappear automatically if you do not make a selection within 15 seconds, and the other displays will disappear within 6 seconds.
- If you want to close all the on-screen displays instantly, press EXIT.

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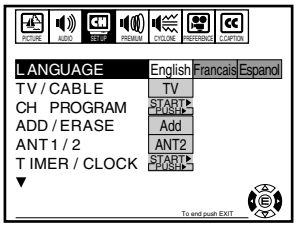
Changing the on-screen display language

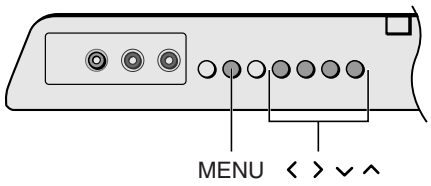
You can choose from three different languages (English, French and Spanish) for the on-screen displays. Adjustment menus and messages will appear in the language of your choice.

To select a language:

1. Press MENU, then press ◀ (‹) or ▶ (›) until the SET UP menu appears.
2. Press ▼ (⌄) or ▲ (⌃) to highlight LANGUAGE.



3. Press ◀ (‹) or ▶ (›) to highlight your desired language.

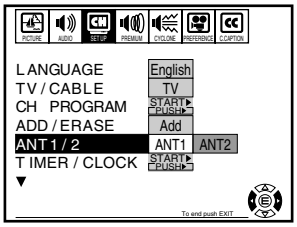


Selecting the antenna input

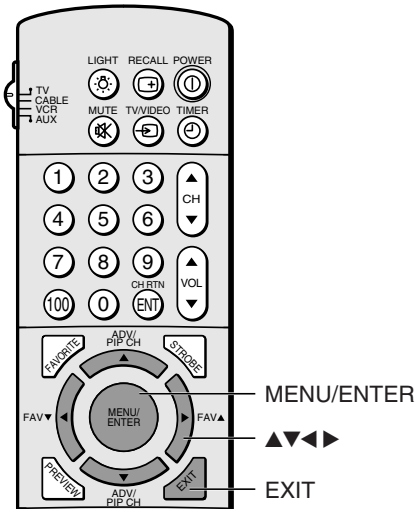
You can connect to two different signal sources by choosing the antenna input (ANT 1 or ANT 2).

To select the antenna input:

1. Press MENU, then use ◀ (‹) 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.

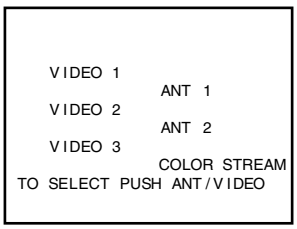


Using the ANT/ VIDEO button

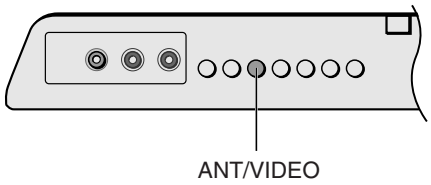
You can monitor or change the signal source that is connected to the TV. By pressing the ANT/VIDEO button on your TV, you can select the VIDEO 1, VIDEO 2, VIDEO 3, ColorStream, ANT 2 or ANT 1 mode. The signal source you are currently connected to will be displayed in purple.

To select the antenna input:

1. Press the ANT/VIDEO button. The signal source you are connected to is displayed in purple.



2. Press the button until ANT 1 or ANT 2 is displayed in purple, indicating the antenna terminal you wish to use.



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Adding channels to the TV's memory

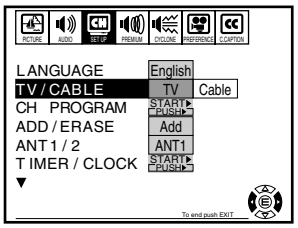
Your TV will stop on specific channels that are stored in the TV's channel memory when you press Channel ▲ or ▼. Use the steps below to set all active channels in your area automatically.

Programming channels automatically

Your TV can automatically detect all active channels and store them in its memory. After the TV has stored the channels in its memory, you can erase channels or add your favorite channels. If you use both ANT-1 and ANT-2 terminals, you must program channels for each input source.

To add channels:

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

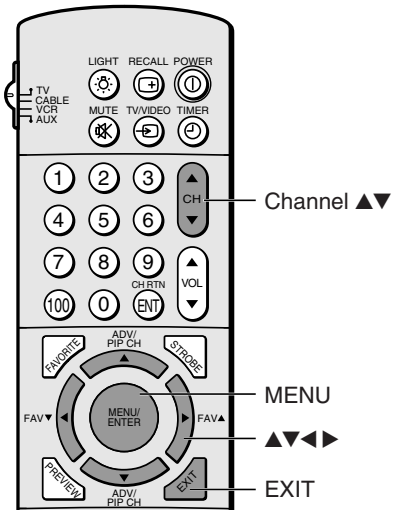


If you use an antenna, choose TV.

If you use cable, choose CABLE.

4. Press ▼ to select CH PROGRAM.
5. Press ◀ or ▶ to start 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 (channel or cable number)" appears.
7. Press Channel ▲ or ▼ to view the programmed channels.



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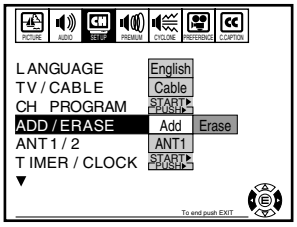
Adding and erasing channels manually

After you've programmed the channels, you can add or erase specific channels.

To add or erase channels:

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



4. Press ◀ (‹) or ▶ (›) to select Add or Erase, whichever function you want to perform.
5. Repeat steps 1-4 for other channels you want to add or erase.

Changing channels

To change the channel, you can:

- change the programmed channels using the remote control
- select a channel directly using the remote control
- scan the channels using the TV buttons

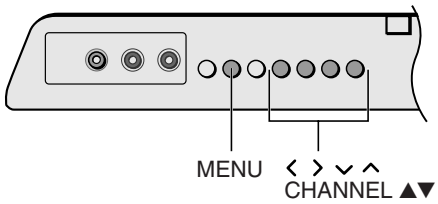
To change to the next programmed channel:

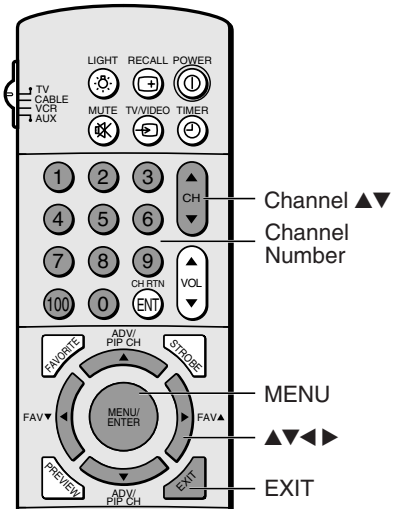
Press Channel ▲ or ▼ on the TV or remote control.

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

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

For example, to select channel 125, press the 100 button, the 2 button, and the 5 button.





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Using the TV's features

Adjusting the channel settings

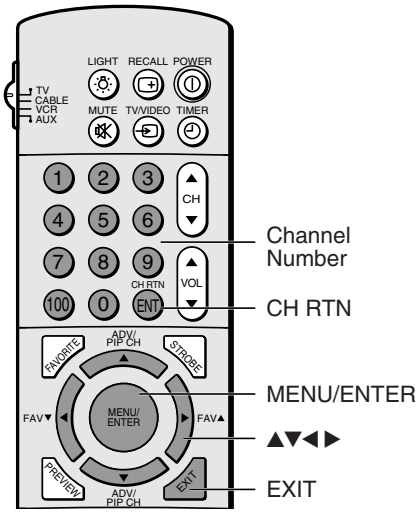
Switching between two channels

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, 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.



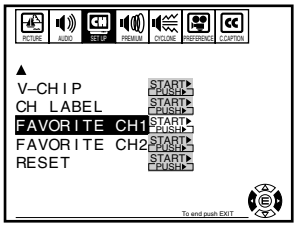
Programming your favorite channels

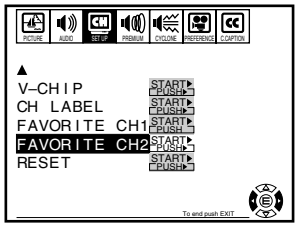
You can preset up to 9 of your favorite channels each for FAVORITE 1 and FAVORITE 2 modes using the Favorite Channel Programming feature. Because this feature scans through only your favorite channels, it allows you to skip other channels you do not normally watch.

You can still use Channel ▲▼ to scan through all the channels you programmed in the TV's memory.

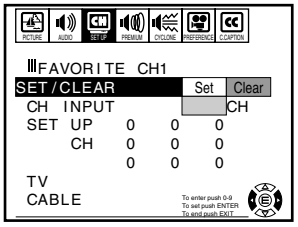
To program your favorite channels:

1. Press MENU, then press ◀ or ▶ until the SET UP menu appears.
2. Press ▲ or ▼ to highlight FAVORITE CH1 or FAVORITE CH2.

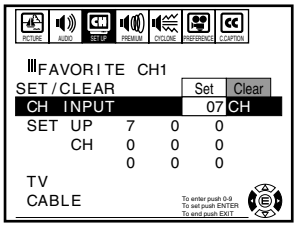




3. Press ◀ or ▶ to display the FAVORITE CH1 menu for example. SET/CLEAR will be highlighted.
4. Press ◀ or ▶ to highlight Set.



5. Press ▼ to highlight CH INPUT, then press the Channel Number buttons to enter the channel number.
6. Press ENTER.



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7. Repeat steps 5 and 6 for other channels.

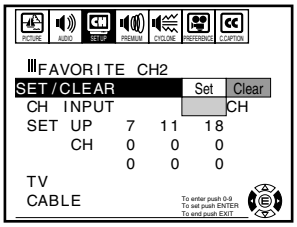
To select your favorite channels:

To scan your favorite channels in order one by one, press FAV ▼ or ▲ .

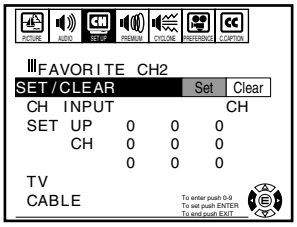
To scan your favorite channels with a 9-picture multi-window, press FAVORITE. (See page 26 for details.)

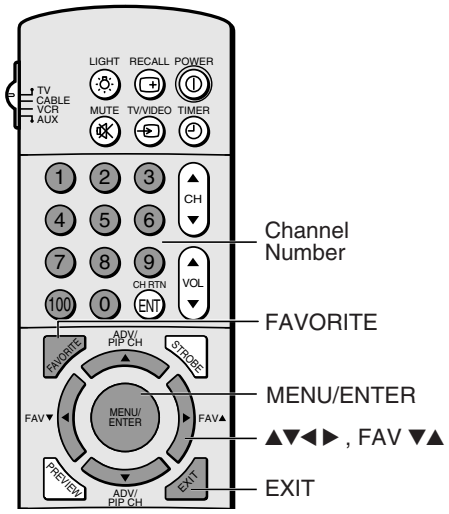
To clear your favorite channels:

1. Press MENU, then press ◀ or ▶ until the SET UP menu appears.
2. Press ▲ or ▼ to highlight FAVORITE CH2 for example.
3. Press ◀ or ▶ to display the FAVORITE CH2 menu. SET/CLEAR will be highlighted.



4. Press ◀ or ▶ to highlight Clear, then press ENTER until "0" replaces the channel numbers you have programmed.



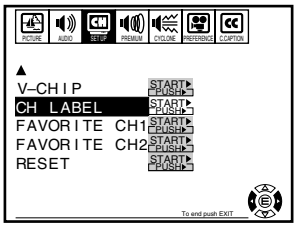


Labeling channels

Channel labels will appear over the channel number display each time you turn on the TV, select a channel, or press the RECALL button. You can choose any four characters to identify the channels.

To create channel labels:

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



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

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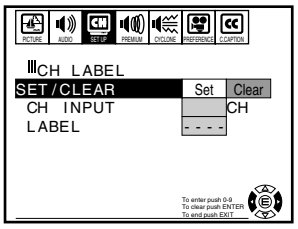
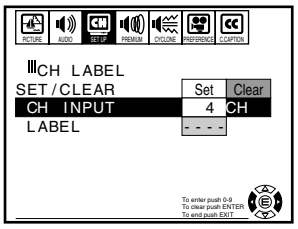
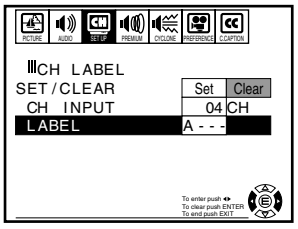
4. Press ◀ or ▶ to highlight SET.



5. Press ▼ to highlight CH INPUT, then select a channel you want to label.



6. Press ▼ to highlight LABEL.
7. Assign the label to the channel. Press ◀ or ▶ to enter a character in the first space. Press the button repeatedly until the character you want appears on the screen. Press ENTER.



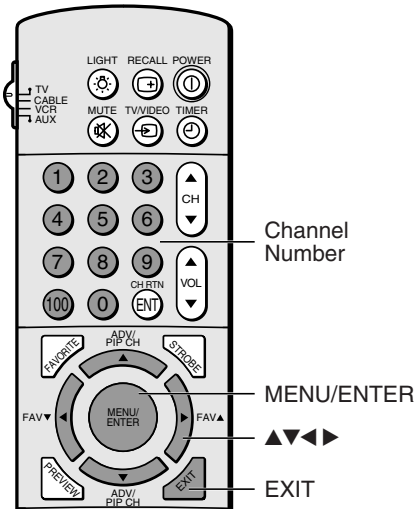
8. Repeat step 7 to enter the rest of the characters.

   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.
9. Repeat steps 4 through 8 for other channels. You can assign up to 32 labels.

To erase channel labels:

1. Press MENU, then press ◀ or ▶ until the SET UP menu appears.
2. Press ▲ or ▼ to highlight CH LABEL.
3. Press ◀ or ▶ to display the CH LABEL menu.

   SET/CLEAR will be highlighted.
4. Press ◀ or ▶ to highlight Clear.
5. Press ▼ to highlight CH INPUT, then select the channel you want to clear with the Channel Number buttons.
6. Press ENTER.
7. Repeat steps 5 and 6 to erase other channel labels.



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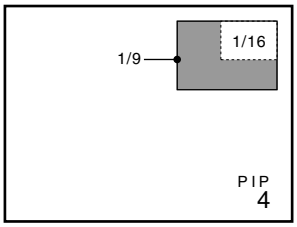
Watching picture-in-picture (PIP)

The picture-in-picture (PIP) feature allows you to watch two pictures at the same time. The smaller picture can be a TV broadcast or come from an external source, such as a VCR.

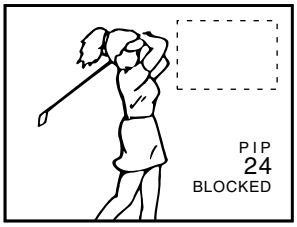
To display a TV broadcast as a small picture:

1. Turn on the TV and select the program you want to watch.
2. Press PIP once to display a small picture. A window 1/9 the size of the screen will appear. Press PIP a second time to display a 1/16 size window.



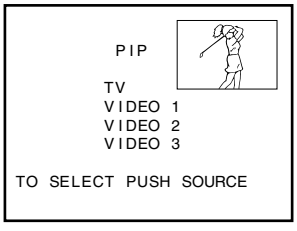
3. Press PIP CH ▲▼ to choose the program you want to be displayed as a small picture.

   If the V-CHIP feature is active and you try to watch a TV program that exceeds the rating limits you set, the TV will enter into the program block mode. See "Using V-CHIP control" on page 27.



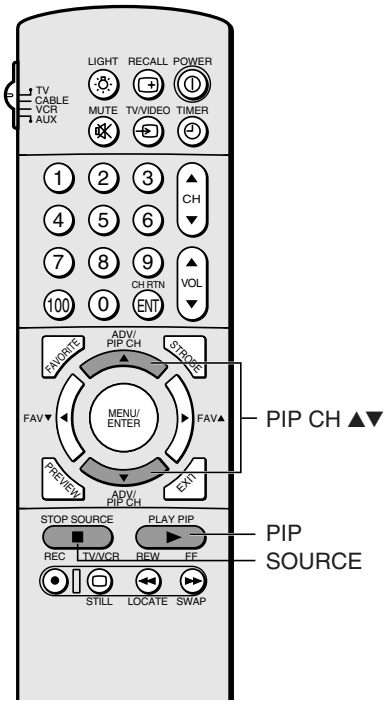
To display a picture from an external source as a small picture:

1. Make sure you have connected the external source equipment properly. For more information, see the "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 a small picture. A window 1/9 the size of the screen will appear. Press PIP a second time to display a 1/16 size window.
4. Press SOURCE repeatedly to select the input source (VIDEO 1, VIDEO 2 or VIDEO 3) for the small picture. The selected source will be displayed in purple. ColorStream can not be selected.



To turn PIP off:

Press PIP once or twice, depending on the size of the small picture screen you selected.



Note:

- *PIP can not be turned on when the ColorStream input is being viewed.*
- *You can not display the signal sources input through the ANT-2 terminal as a small picture.*

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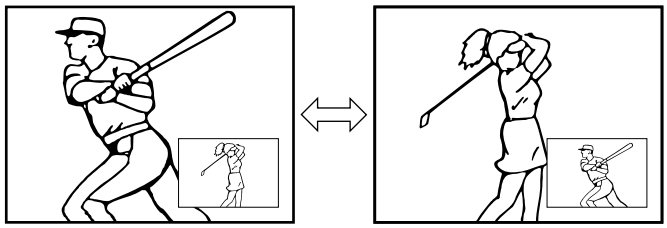
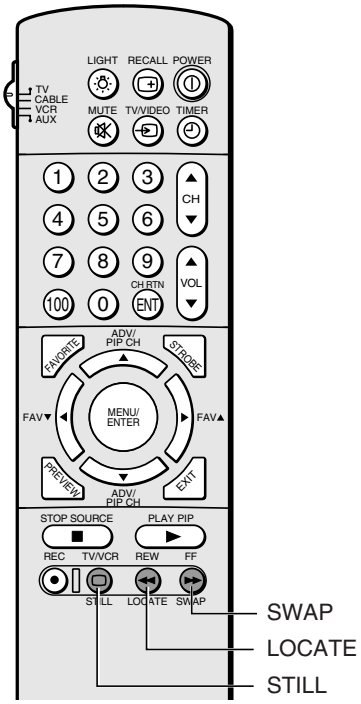
Switching the main and small pictures

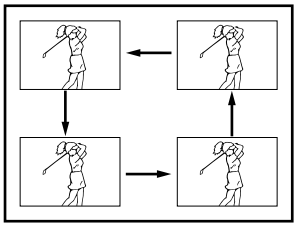
Press SWAP while you are using the PIP feature to switch the main and small pictures. The main and small pictures will switch each time you press the SWAP button.





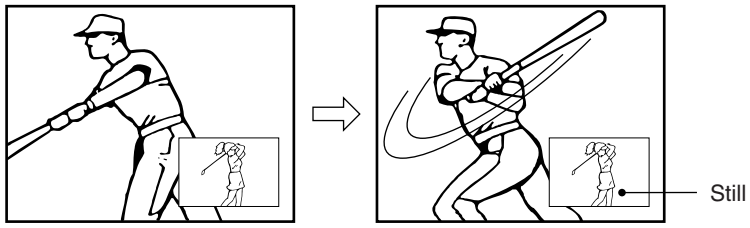
Changing the position of the small picture

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



Freezing the small picture

Press STILL while you are watching a small picture. The small picture will become a still picture. To return to the moving picture, press STILL again.



Using Multi-Window feature

The Multi-Window feature provides two channel search modes. One is the "PREVIEW" that scans the channels programmed in the TV memory by the CH PROGRAM function (6-picture multi-search), and the other is the "FAVORITE" that scans the channels programmed in the TV memory by the FAVORITE CH function (9-picture multi-search).

The STROBE function is convenient when watching quickly moving picture such as sports programs.

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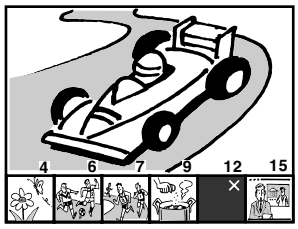
Using the preview function

Press PREVIEW to scan the channels programmed in the TV memory by the CH PROGRAM function. The 6-picture multi-search will start.



To cancel the preview function:

Press PREVIEW again.

Using the favorite function

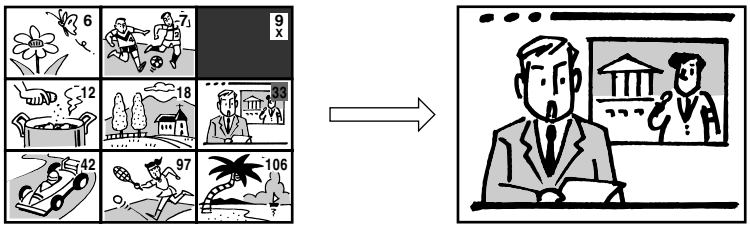
1. Press FAVORITE to scan the channels programmed in the TV memory by the favorite channel function (page 21).

   The 9-picture multi-search will start.

   The first window will be displayed with a moving picture.

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

   FAVORITE CH1—— FAVORITE CH2 —— off
2. Press ▲▼◀▶ to select a channel you want to see with a moving picture.
3. Press ENTER to display the channel you have selected at step2 with a normal picture.

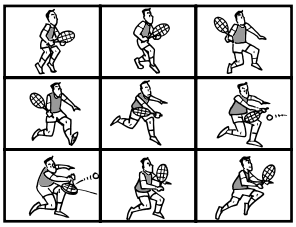


To cancel the favorite function:

Press FAVORITE again.

Using the strobe function

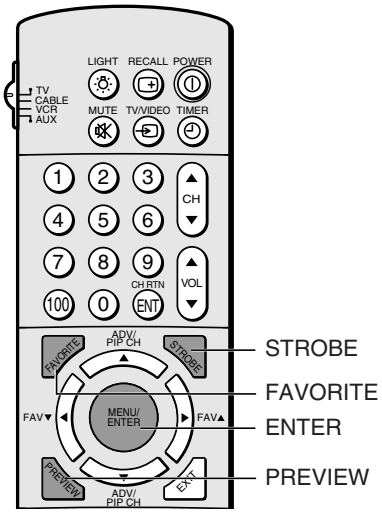
Press STROBE to start the strobe function. 9-picture multi-strobe starts for the present main picture.



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

To cancel the strobe function:

Press STROBE again.



Note:

- *When the main picture source is "color stream", the PREVIEW, FAVORITE and STROBE buttons are not available.*
- *The FAVORITE button will not work until you have programmed your favorite channels. See page 21 for details.*
- *The PREVIEW button will not work when the ANT 2 mode is selected.*
- *If the V-CHIP feature is active and you try to scan a TV program that exceeds the rating limits you set, the "X" mark on the black window will appear. However, during the scanning period, the V-CHIP operation may not be done correctly.*

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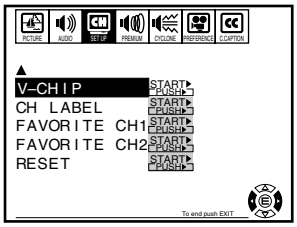
Using V-CHIP control

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

Selecting the V-CHIP menu

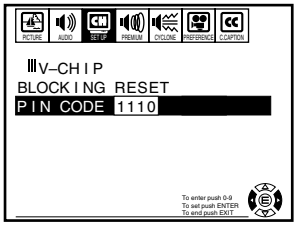
1. Press MENU, then press ◀ or ▶ until the SET UP menu appears.
2. Press ▲ or ▼ to highlight V-CHIP.



3. Press ◀ or ▶ to display the pin code entering mode.

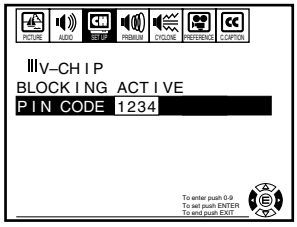
- Factory reset status :

  Set your 4 digit code by pressing the Number buttons (0-9).



- When the pin code is already stored :

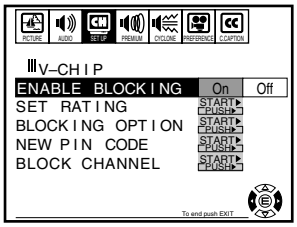
  Press the Number buttons (0-9) to enter the 4-digit pin code used to block channels.



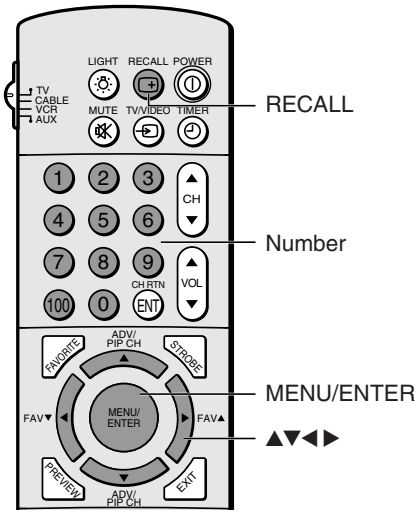
If a wrong pin code has been entered, the message "Incorrect" will appear. Try to enter the correct code again.

If you can not remember the pin code you have stored, while in the pin code entering mode, press the RECALL button four times within 5 seconds. The pin code you have stored will be released. (Factory reset status.)

4. Press ENTER to display the V-CHIP menu.



Continue to set each item following the steps on the next page.



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Adjusting the V-CHIP menu

ENABLE BLOCKING

Press ◀ or ▶ to select On or Off.

On : To enable your setting (Block)

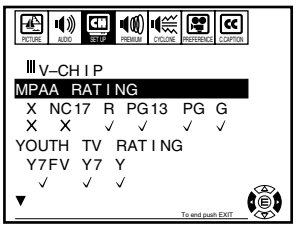
Off : To release your setting (Unblock)

***Note**: The block channel function is not affected with this selection.*

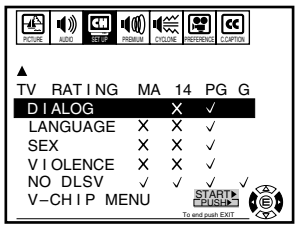
SET RATING (Setting the movie or TV ratings for your choice)

1. Press ◀ or ▶ to display the SET RATING menu.
2. Press ▼ (or ▲) to select item.
3. Press ▶ to block (display X)
   Press ◀ to unblock (display ✓)
4. Repeat steps 2 and 3 to set the next item.

1st menu



2nd menu



About Rating

MPAA RATING: Independent rating system for movies

G: General Audience (Appropriate for all ages)

PG: Parental Guidance Suggested (Some material may not be suitable for children)

PG13: Parents Strongly Cautioned (Some material may be inappropriate for children under 13)

R: Restricted (Under 17 requires accompanying parent or adult guardian.)

NC17: Not intended for anyone 17 and under

X: X-rated (For adults only)

TV RATING: Independent rating system for broadcasters

YOUTH TV RATING:

Y: All Children (This program is designed to be appropriate for all children)

Y7,Y7FV: Directed to Older Children (This program is designed for children age 7 and above. Note: For those programs where fantasy violence may be more intense or more combative than other programs in this category, such programs will be designated TV-Y7-FV.)

G: General Audience (Most parents would find this program suitable for all ages.)

PG: Parental Guidance 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

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

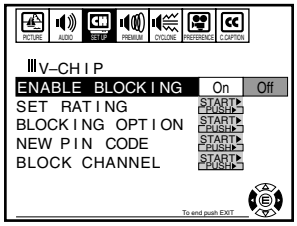
S) Intense sexual situations V) Intense violence

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

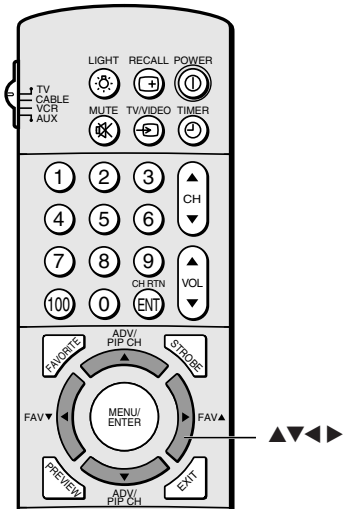
V) Graphic violence

V-CHIP menu

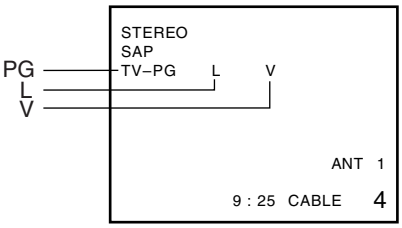


To select each item:

Press ▼ or ▲.



The rating of the TV programs you are now watching can be confirmed by pressing the RECALL button.



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Adjusting the V-CHIP menu (continued)

BLOCKING OPTION

Press ◀ or ▶ to display the BLOCKING OPTION menu, then press ▼ or ▲ to select item.

MPAA UNRATED

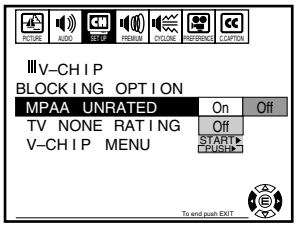
Press ◀ or ▶ to select On (Block) or Off (Unblock) for unrated programs on MPAA rating system.

TV NONE RATING

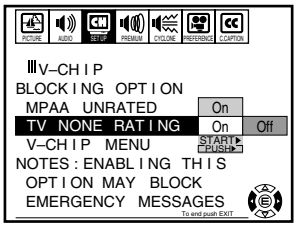
Press ◀ or ▶ to select On (Block) or Off (Unblock) for programs rated NONE on TV PARENTAL GUIDELINES.

If you select On, the NOTES shown below will be displayed since the emergency information may also be blocked.

BLOCKING OPTION menu



If you select On on TV rating

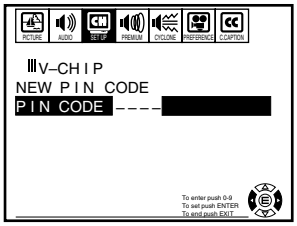


V-CHIP MENU:

Press ◀ or ▶ to return to the V-CHIP menu.

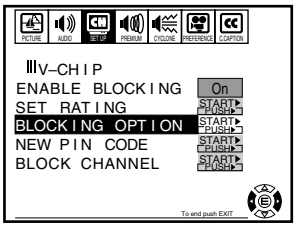
NEW PIN CODE (Changing Pin Code):

1. Press ◀ or ▶ to display the NEW PIN CODE menu.
2. Press the Number buttons (0-9) to enter a 4-digit code.
   The numbers you enter will replace the dashes in the display.



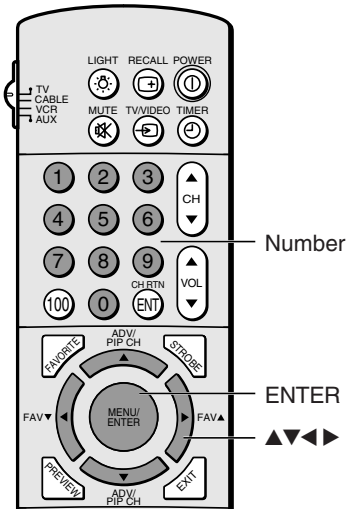
3. Press ENTER.
   The display will return to the V-CHIP menu.

V-CHIP menu



To select each item:

Press ▼ or ▲ .



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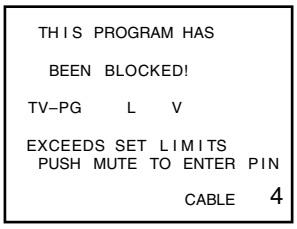
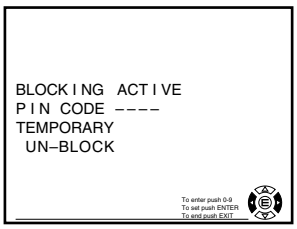
Unblocking programs temporarily

1. If you try to watch a TV program that exceeds the rating limits you set, the TV will enter into the program block mode.



2. If you want to watch the blocked program temporarily, press MUTE.
3. Press the Number button (0-9) to enter the 4-digit code you have stored.



4. Press ENTER.

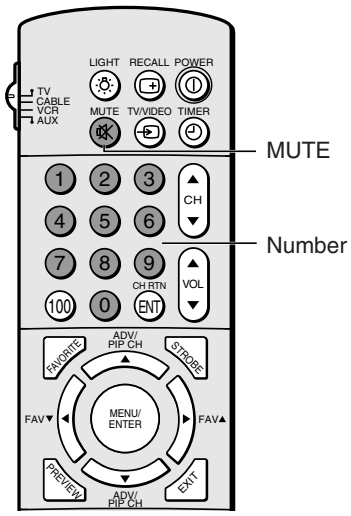
   If the number is correct, the block mode will be released and the normal picture will appear.

   All blocking is disabled until the TV is turned off.

   It will be enabled when the power is reapplied.

   If a wrong pin code is entered, the message “Incorrect” appears.

   Enter the correct code again.



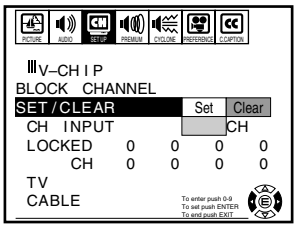
Blocking Channels

With the BLOCK CHANNEL feature, you can block specific channels. The TV will not be able to tune these channels with the Channel ▲ ▼ buttons or Channel Number buttons, unless you clear the setting.

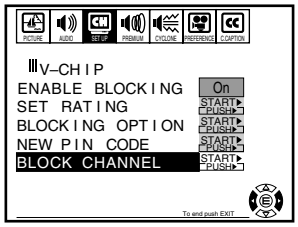
This TV has 8 memory spaces total, 4 for TV mode and 4 for CABLE mode.

To block channels:

1. Press ◀ or ▶ to display the BLOCK CHANNEL menu.
   SET/CLEAR will be highlighted.
2. Press ◀ or ▶ to highlight Set.



V-CHIP menu



To select each item:

Press ▼ or ▲ .

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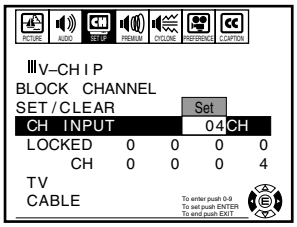
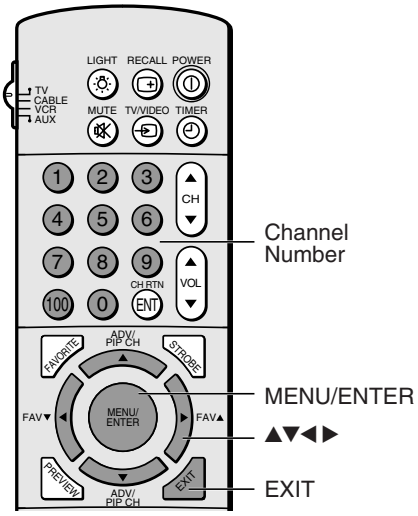
3. Press ▼ to highlight CH INPUT, then press the Channel Number buttons to enter the channel number.
4. Press ENTER.

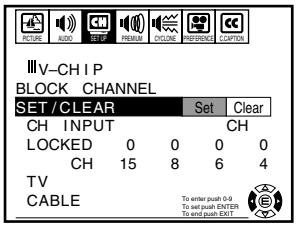


5. Repeat steps 3 and 4 for other channels.
6. Press EXIT to clear the screen.

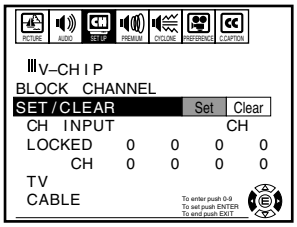


To unlock channels:

1. Select V-CHIP menu.
2. Press ▲ or ▼ to highlight BLOCK CHANNEL.
3. Press ◀ or ▶ to display the BLOCK CHANNEL menu.
4. Press ◀ or ▶ to highlight Clear.



5. Press ENTER until "0" replaces the channel numbers you have blocked.



6. Press EXIT to clear the screen.

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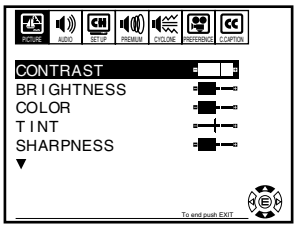
Adjusting the picture

Adjusting the picture quality

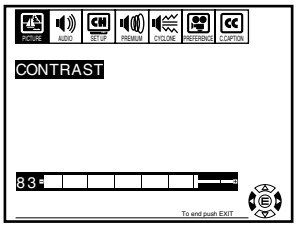
You can adjust the picture quality to your personal preferences, including the contrast, brightness, color, tint, sharpness, color temperature, picture preference and flesh tone. The qualities you choose will be stored automatically in your TV's memory so you can recall them at any time.

To adjust the picture quality:

1. Press MENU, then press ◀ (‹) or ▶ (›) until the PICTURE menu appears.
2. Press ▼ (⌄) or ▲ (⌃) until the item you want to adjust is highlighted.

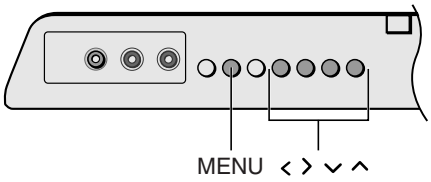


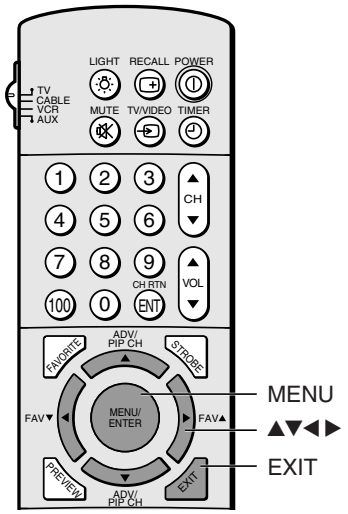
3. Press ◀ (‹) or ▶ (›) to adjust the level.



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

The PICTURE items you have adjusted will be stored in the TV's memory automatically. You can keep these settings or choose preset options under the PREFERENCE menu. (See "Selecting the color temperature" and "Adjusting the picture preferences" on pages 32-33.)



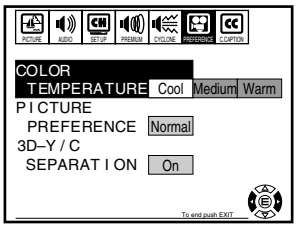


Selecting the color temperature

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, then press ◀ (‹) or ▶ (›) until the PREFERENCE menu appears.
2. Press ▲ (⌃) or ▼ (⌄) to highlight COLOR TEMPERATURE.
3. Press ◀ (‹) or ▶ (›) to highlight the mode you want.



Mode	Picture Quality
cool	blueish
medium	neutral
warm	reddish

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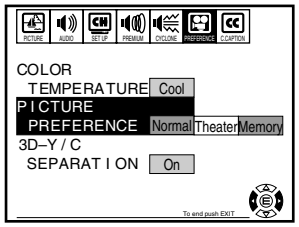
Adjusting the picture preferences

You can select your desired picture type from three preset picture modes: Normal, Theater, and Memory.

To select the picture preferences:

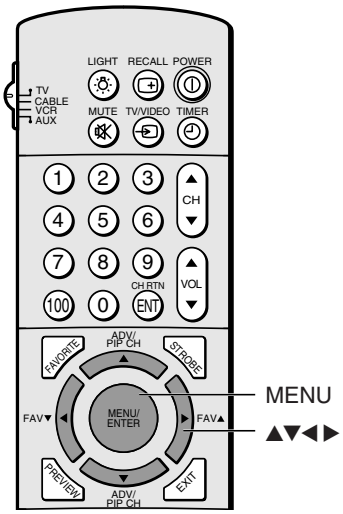
1. Press MENU, then press ◀ or ▶ until the PREFERENCE menu appears.
2. Press ▲ or ▼ to highlight PICTURE PREFERENCE.
3. Press ◀ or ▶ to highlight the mode you want.



The table below describes the effects of the different preferences.

Mode	Picture Quality
normal	picture quality set at factory
theater	movie-like picture setting
memory	your personal preference*

*(see "Adjusting the picture quality" on page 32)



Using the 3D-Y/C separation feature

3D-Y/C means "3-Dimensional-luminance signal (Y) /chrominance signal (C) separation circuit." It separates Y and C signals to prevent them from interfering with one another, thereby improving picture (especially color) quality.

Select On for optimum picture quality.

To turn on the 3D-Y/C separation:

1. Press MENU, then press ◀ or ▶ until the PREFERENCE menu appears.
2. Press ▲ or ▼ to highlight 3D-Y/C SEPARATION.
3. Press ◀ or ▶ to highlight On.

Note:

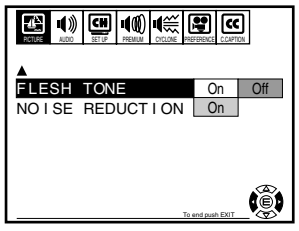
This 3D-Y/C separation feature will automatically set to on when you turn the TV on.

Using the flesh tone feature

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

To turn on the flesh tone feature:

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



To turn off the flesh tone feature:

Choose Off in step 3 above.

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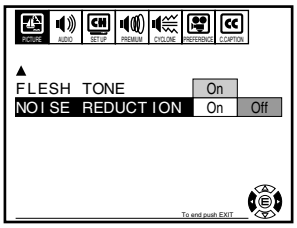
Using the noise reduction feature

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

To turn on the noise reduction feature.

1. Press MENU, then press ◀ or ▶ until the PICTURE menu appears.
2. Press ▲ or ▼ to highlight NOISE REDUCTION.
3. Press ◀ or ▶ to highlight On.

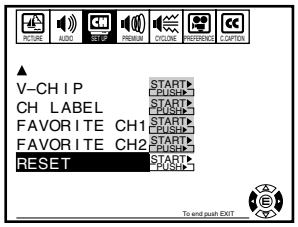


To turn off the noise reduction feature:

Choose Off in step 3 above.

Resetting your adjustments to the factory settings

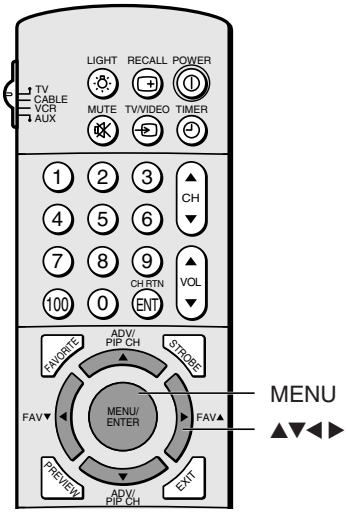
1. Press MENU, then press ◀ or ▶ until the SET UP menu appears.
2. Press ▲ or ▼ to highlight RESET.



3. Press ◀ or ▶.

The RESET function adjusts the following picture and audio functions.

contrast ..... max
brightness ..... center
color ..... center
tint ..... center
sharpness ..... center
color temperature ..... cool
picture preference ..... normal
noise reduction ..... off
bass ..... center
treble ..... center
balance ..... center



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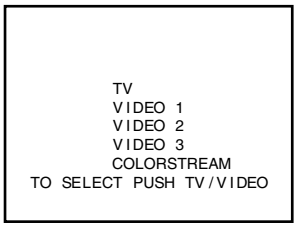
Watching video input

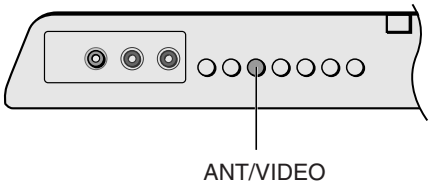
You can use the TV/VIDEO button on the remote or ANT/VIDEO button (page 18) on the TV to view a signal coming from other devices, such as VCRs or video disc players that may be connected to your TV. Select VIDEO 1, VIDEO 2, VIDEO 3, or ColorStream depending on which input jacks are used for connecting the devices. (See "Connecting your TV" on page 5.)



Note:

When ColorStream is selected, the video OUT signal will not have color.

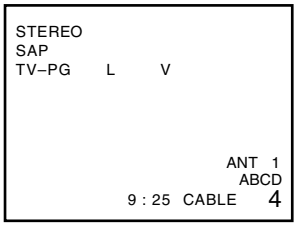
To receive a color video OUT signal, a video or S-video IN jack must be used instead of the ColorStream connection.

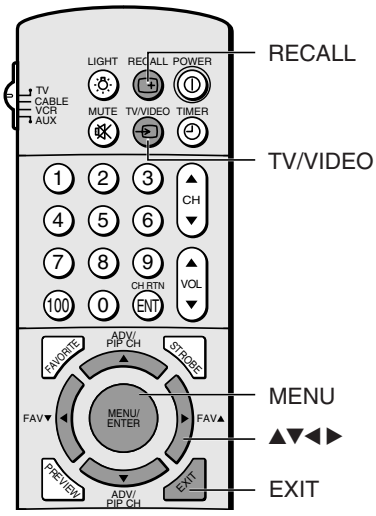


Displaying on-screen information

Press RECALL to display the following on-screen information:

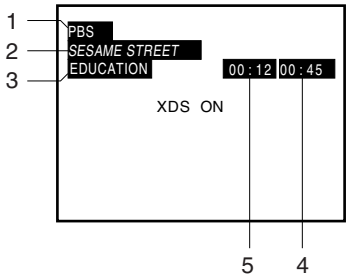
- Antenna mode (when in TV mode)
- Channel number or VIDEO mode selected
- Time (if preset)
- Channel label (if preset)
- Stereo or SAP (second audio program) audio status
- V-CHIP rating status





Displaying XDS information

1. Select the desired program.
2. Press MENU, then press ◀ or ▶ until the CLOSED CAPTION menu appears.
3. Press ▲ or ▼ to highlight XDS.
4. Press ◀ or ▶ to display the following XDS (extended Data Service) information for about 30 seconds.



1. Network name
2. Program name
3. Program type
4. Program length
5. Elapsed time in show

Some of the above information may not be displayed.

To close the XDS display:

Press EXIT.

Note:

If the TV program you are watching does not include XDS information, only XDS ON will be displayed for about 4 seconds when you select the XDS mode.

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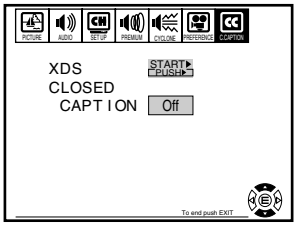
Using the closed caption feature

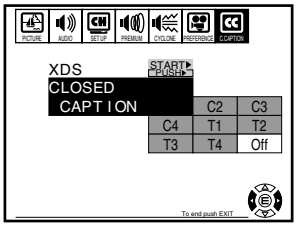
You have two options with the closed caption feature: captions or text. A caption is a printed version of the dialogue, narration and/or sound effects of a TV program. Text is information not related to the program that appears on half of the TV screen.

To view captions or text:

1. Select the desired program. The captioned programs are usually marked in your local TV listing by "CC."
2. Press MENU, then press ◀ or ▶ until the C.CAPTION menu appears.

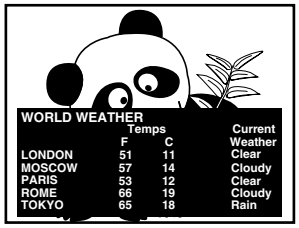


3. Press ▲ or ▼ to highlight CLOSED CAPTION.



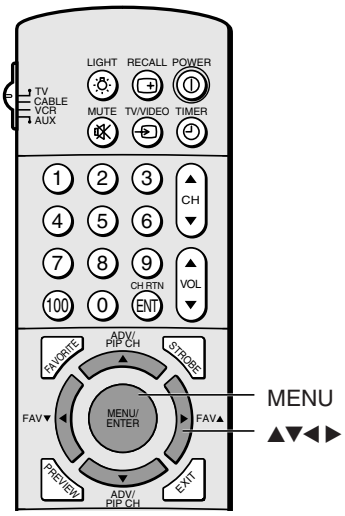
4. Press ◀ or ▶ to select the closed caption mode.
   - Select C1, C2, C3, or C4 to view captions. Select C1 for translation of the primary language in your area.

   - Select T1, T2, T3, or T4 to view Text.



To turn off the closed-caption feature:

Select OFF in step 4.



Note:

A closed caption signal may not be decoded in the following situations:

- *when a video tape has been dubbed*
- *when the signal reception is weak*
- *when the signal reception is nonstandard*

When you choose a closed captioned channel and the text mode, the text screen always appears. When there is no signal, however, the text screen will not display text characters.

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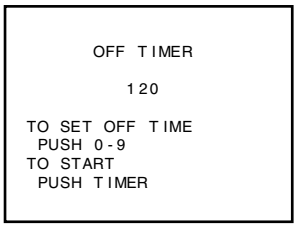
Setting the off-timer

You can set the TV so it turns off automatically.

To set the off-timer:

1. Press TIMER once to select the OFF TIMER.
2. Press two Number buttons (0-9) to enter how long you want the TV to remain on (up to three hours, in 10 minute increments). Enter the numbers after the number position starts to blink.



3. Press TIMER to start the timer. The display color will change from purple to blue, then turn off.

To cancel the off-timer:

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

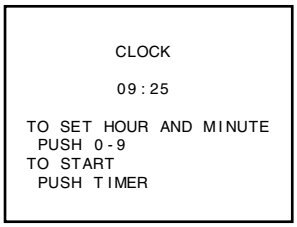
Setting the clock

To set the clock

1. Press TIMER twice to select the CLOCK.
2. Press four Number buttons (0-9) to enter the correct time.

   Enter the numbers after the number position starts to blink.

   The clock operates on a 12 hour-cycle.



3. Press TIMER to start the clock. The display color will change from purple to blue, then turn off.

To monitor the time:

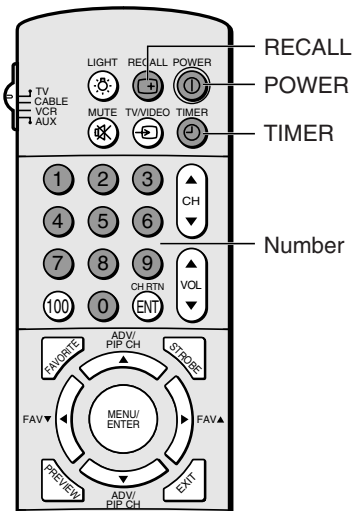
Press RECALL.

Note :

The timer can also be set through the SET UP menu.

If you want to see how much time remains before the shut-off time, press TIMER once.

The remaining time will be displayed. To erase the display, press TIMER again.



Note:

The clock can also be set through SET UP menu.

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

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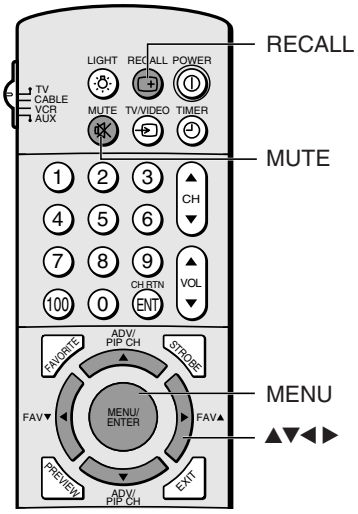
Adjusting the sound

Muting the sound

Press MUTE to temporarily turn off the sound. While the sound is off, the screen will display the word MUTE in the lower right-hand corner. To restore the sound, press MUTE again.

When you press the MUTE button, you automatically activate the closed caption feature. To deactivate this feature, press the MUTE button again. This feature only works when the closed caption mode is set to off. See “Using the closed caption feature” on page 36 for more information.



Selecting stereo/SAP broadcasts

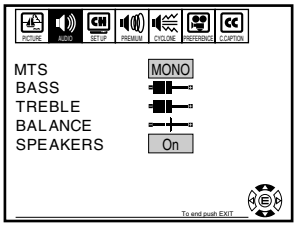
You can enjoy watching TV while you listen to high-fidelity stereo sound with the Multi-channel TV Sound (MTS) feature. MTS can also transmit a second audio program (SAP) containing a second language or other audio information.

When the TV receives a stereo or SAP broadcast, the word STEREO or SAP appears on the screen when the TV is turned on, you change the channel, or press the RECALL button.

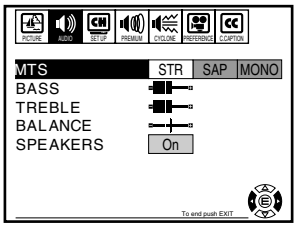
The MTS feature is not available while in the VIDEO mode.

To listen to stereo sound:

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



2. Press ▼ or ▲ to highlight MTS.
3. Press ◀ or ▶ to highlight STR.



You should leave your TV set to STR so you can automatically receive stereo or monaural sound, depending on the broadcast type. If the stereo sound is noisy, select MONO to reduce the noise. The word STR or SAP is displayed in yellow when the TV receives the signal, and in purple when you have selected the feature.

To listen to a second audio program:

1. Press MENU, then press ◀ or ▶ until the AUDIO menu appears.
2. Press ▼ or ▲ to highlight MTS.
3. Press ◀ or ▶ to highlight SAP. You will hear only the second audio program from the left and right speakers.

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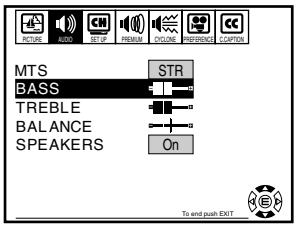
Adjusting the sound quality

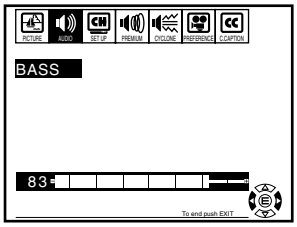
You can change the sound quality of your TV by adjusting the bass, treble, and balance.

To adjust the sound quality:

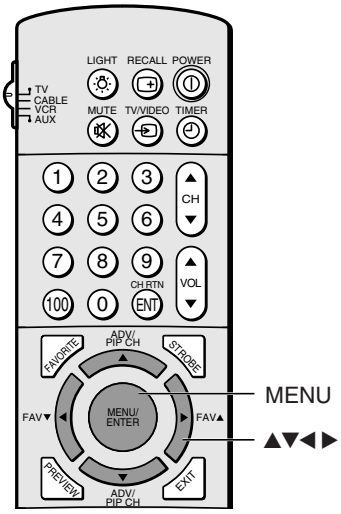
1. Press MENU, then press ◀ or ▶ until the AUDIO menu appears.
2. Press ▲ or ▼ to highlight the item you want to adjust.



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.

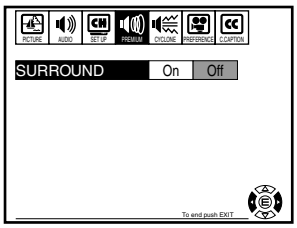


Using the surround sound feature

The 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 surround sound feature:

1. Select the stereo mode following the steps under "Selecting stereo/SAP broadcasts" on page 38.
2. Press MENU, then press ◀ or ▶ until the PREMIUM menu appears.
3. Press ▲ or ▼ to highlight SURROUND.
4. Press ◀ or ▶ to highlight On.



To turn off the surround sound feature:

Choose OFF in step 4 above.

In general, you should leave your TV set to SURROUND On so it can automatically produce surround stereo or monaural sound, depending on the broadcast type.

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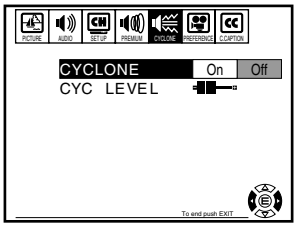
Using the sub-woofer system CYCLONE™

Toshiba's CYCLONE™ ABX (woofer speaker) is a deep bass reproduction system.

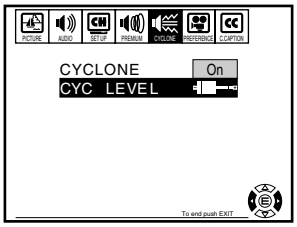
To turn on the CYCLONE woofer:

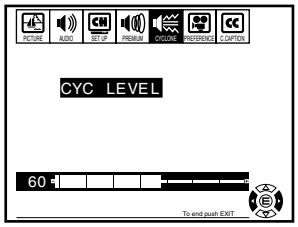
1. Press MENU, then press ◀ or ▶ until the CYCLONE menu appears.
2. Press ▲ or ▼ to highlight CYCLONE.
3. Press ◀ or ▶ to highlight On.



To adjust the CYCLONE level:

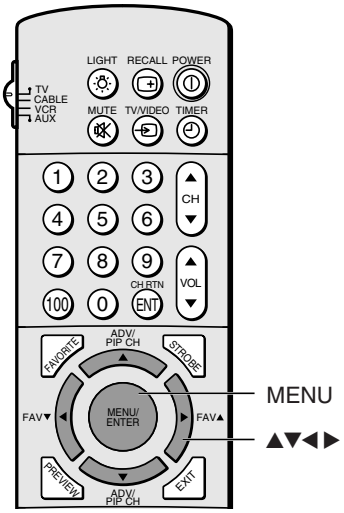
4. Press ▲ or ▼ to highlight CYC LEVEL.
5. Press ◀ or ▶ to adjust the level.





To turn off the CYCLONE woofer:

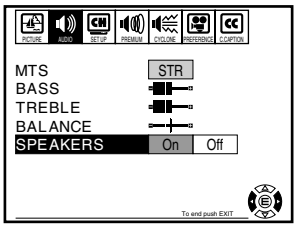
Choose Off in step 3 above.



Turning off the built-in speakers

Use this feature to turn the TV speaker off when you connect an audio system. (See page 9.)

1. Press MENU, 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:

Choose On in step 3.

Note:

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

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Viewing the demonstration mode

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

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

To stop the demonstration mode:

Press DEMO again or press Exit or Recall on the remote.

Auto power off

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

Understanding the last mode memory feature

If the power is cut off while you are viewing the TV and the power is resupplied, the last mode memory feature will turn the TV on automatically.

If the power is going to be off for a long time or you are going to be away from home for a long time, remove the power plug from the wall outlet to prevent the TV from turning on in your absence.

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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	135 W (average)
Audio Power	Main : 10 W + 10 W Sub-woofer : 13 W
Speaker Type	Main : Two 2-3/4 × 5-1/8 inches (7 × 13 cm) Sub-woofer : One 4 inches (10 cm) round
Video/Audio Terminals	S-VIDEO INPUT (VIDEO 1/VIDEO 2) Y : 1 V(p-p), 75 ohm, negative sync. C : 0.286 V(p-p) (burst signal), 75 ohm VIDEO 1/VIDEO 2/VIDEO 3 INPUT VIDEO: 1 V(p-p), 75 ohm, negative sync. AUDIO: 150 mV(rms) (30% modulation equivalent, 47 kohm) ColorStream™ (component video) INPUT Y-INPUT: 1V(p-p), 75 ohm C_R : 0.7 V(p-p), 75 ohm C_B : 0.7 V(p-p), 75 ohm AUDIO: 150 mV(rms), 47 kohm VIDEO/AUDIO OUTPUT VIDEO: 1 V(p-p), 75 ohm, negative sync. AUDIO: 150 mV(rms) (30% modulation equivalent, 4.7 kohm) VARIABLE AUDIO OUTPUT 0–350 mV(rms) (30% modulation equivalent, 4.7 kohm) AUDIO CENTER CHANNEL INPUT 1 V(rms) (30% modulation equivalent, 10 kohm)
Dimensions	Width : 36-5/8 inches (930 mm) Height : 30-3/4 inches (780 mm) Depth : 25-5/8 inches (650 mm)
Mass	178 lbs (80 kg)
Supplied Accessories	Remote Control with 2 size “AA” alkaline batteries
Optional TV Stand	ST3616

Design and specifications are subject to change without notice.

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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	• Make sure the power cord is plugged in, then press POWER. • The remote control batteries may be dead. Replace the batteries.
No picture, no sound	• Check the antenna/cable connections.
No sound, picture OK	• 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 properly set.
Poor sound, picture OK	• The station may have broadcast difficulties. Try another channel.
Poor picture, sound OK	• Check the antenna connections. • The station may have broadcast difficulties. Try another channel. • Adjust the PICTURE menu.
Poor reception of broadcast channels	• 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	• Make sure TV/CABLE is set to TV mode.
Black box appears on the screen	• Captioning may be turned on.
Unable to select a certain channel	• The channel may be locked out with the BLOCK CHANNEL feature, or erased with the ADD/ERASE feature.
Multiple images	• The station may have broadcast difficulties. Try another channel. • Use a highly directional outdoor antenna.
Poor color or no color	• The station may have broadcast difficulties. Try another channel. • Adjust the TINT and/or COLOR in the PICTURE menu. • If you change the direction of the TV while the TV is activated, the picture may suffer from color shading. If so, turn off the TV and allow it to cool for about 30 minutes, then turn on the TV again. The picture should improve.
No stereo or SAP sound from a known MTS broadcast	• Make sure the MTS feature is set properly.
The remote control does not operate	• Check if the TV/CABLE/VCR/AUX switch is properly set. • There may be an obstruction between the remote control and the remote control sensor. • The remote control batteries may be dead. Replace the batteries.

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Limited United States Warranty

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

Limited One (1) Year Warranty

TACP and THI warrant this product and its parts against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. During this period, TACP and THI will repair 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 section "BEFORE CALLING SERVICE PERSONNEL," you find that service is needed;.

(1) Call the TACP toll free number 1-800-631-3811 after you find a defective product or part to find the nearest TOSHIBA Authorized Service Station.

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

In the Continental United States call:

In Hawaii contact:
Toshiba Hawaii, Inc. 327 Kamakee Street, Honolulu, Hawaii 96814 (808) 521-5377

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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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