

**TOSHIBA**

# Color Television

OWNER'S MANUAL

**CF27E55**



SET UP

PREPARATION

BASIC OPERATION

ADVANCED  
OPERATION

EQUIPMENT  
CONNECTIONS

REFERENCE  
SECTION

## Dear Customer

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

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

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

## Customer's Record

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

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

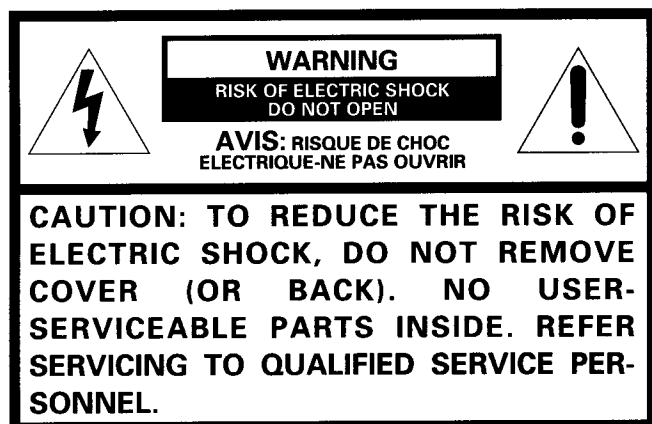
Model Number \_\_\_\_\_

Serial Number \_\_\_\_\_

# Safety Precautions

## WARNING:

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



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



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

This TV set may be used only with TOSHIBA stand model ST2701. Use with other stands may result in instability causing possible injury.

## CAUTIONS:

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

## ATTENTION:

POUR PRÉVENIR LES CHOC 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.

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

## NOTE TO CATV SYSTEM INSTALLER IN THE USA:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

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# Installing Your TV Set

## Where to install

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

## Lighting

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

## Air circulation

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

## Power supply

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

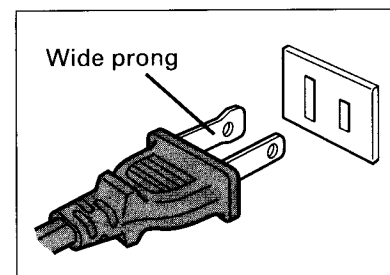
## WARNING : TO AVOID PERSONAL INJURY

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

## CAUTION :

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

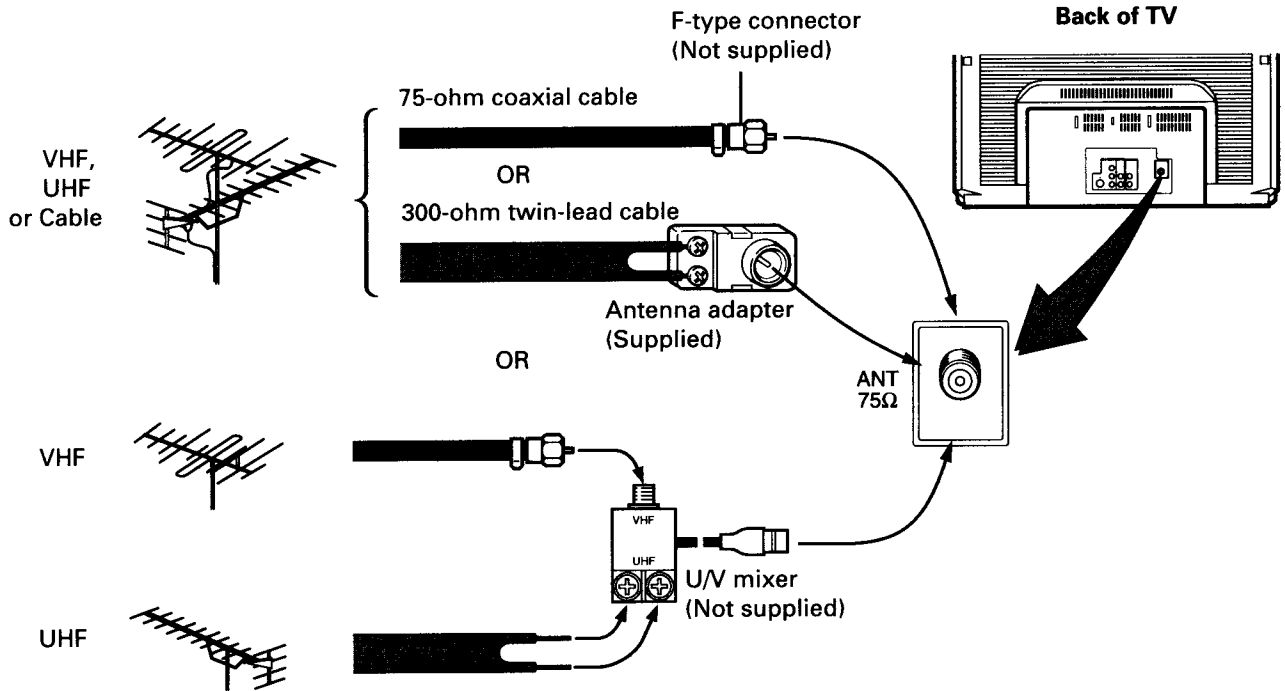
You will need to have new outlet installed by an electrician.  
**DO NOT CHANGE THE SAFETY FEATURE OF THE PLUG.**



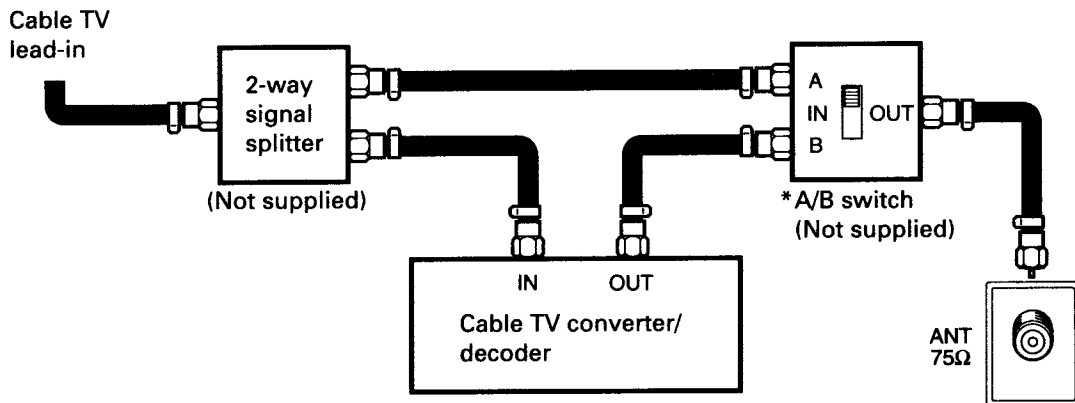
# Antenna/Cable TV Connection

You can use either an indoor or outdoor antenna to receive VHF and/or UHF channels. Channels 2 - 13 are VHF channels, and channels 14 - 69 are UHF channels. We recommend using an outdoor antenna for better picture quality. You can receive Cable TV by connecting a cable supplied by your local cable company. Cable TV delivers both VHF and UHF channels and other channels not available from your antenna.

## Connecting an antenna or Cable without a decoder box



## Connecting a Cable with a decoder box

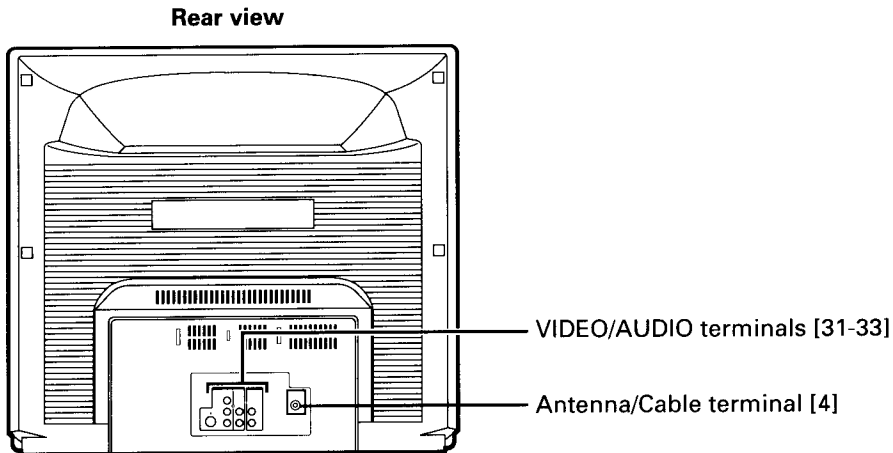
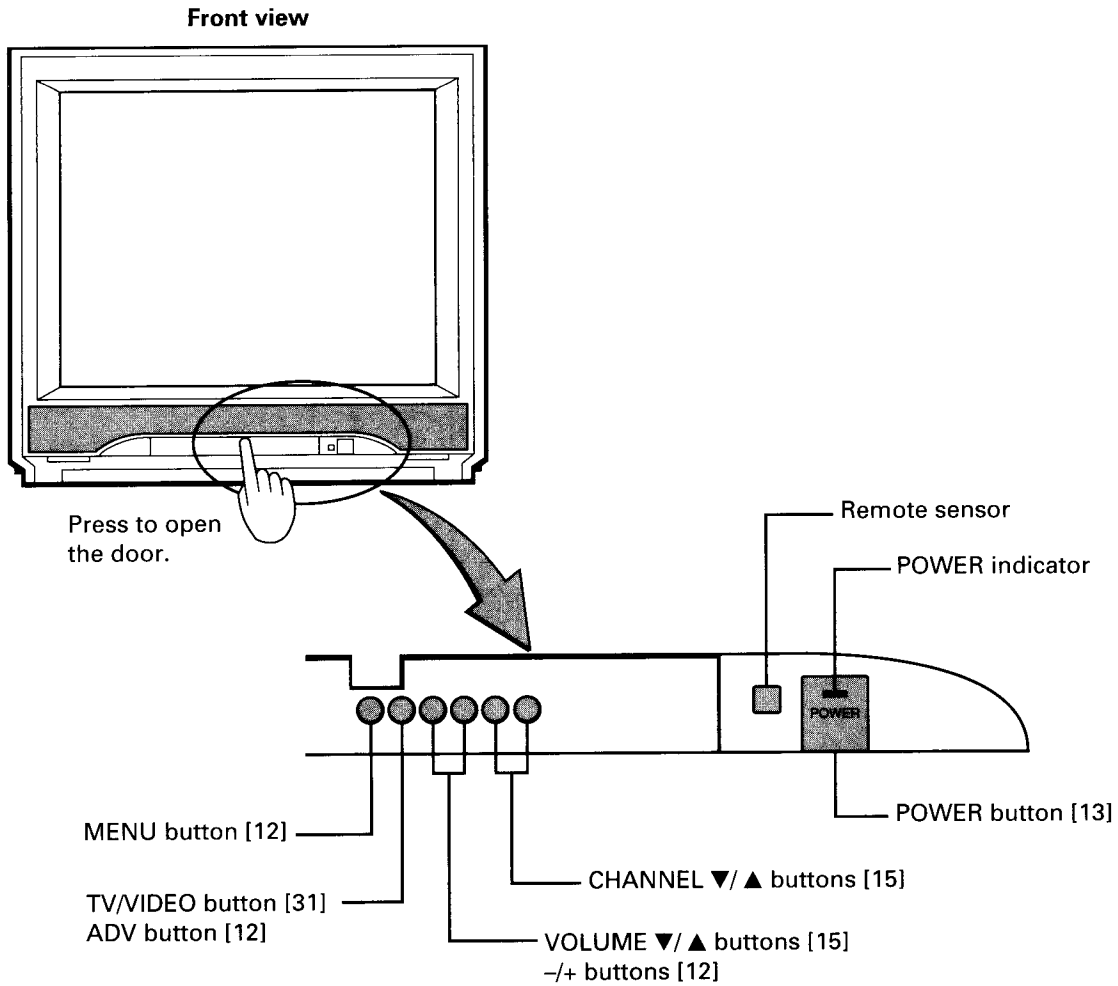


**Notes:**

- \* "A" position on the A/B switch allows you to select unscrambled channels using the TV's channel keys.
- "B" position allows you to select scrambled channels via the converter/decoder box using the converter's channel keys. Place your TV on channel 3 or 4 to match the converter's output channel.
- If you use a VCR, connect its antenna in/out between the decoder box and A/B switch.

# Location of Controls (TV set)

For specific use of each control, consult the corresponding page numbers in brackets.



SET UP

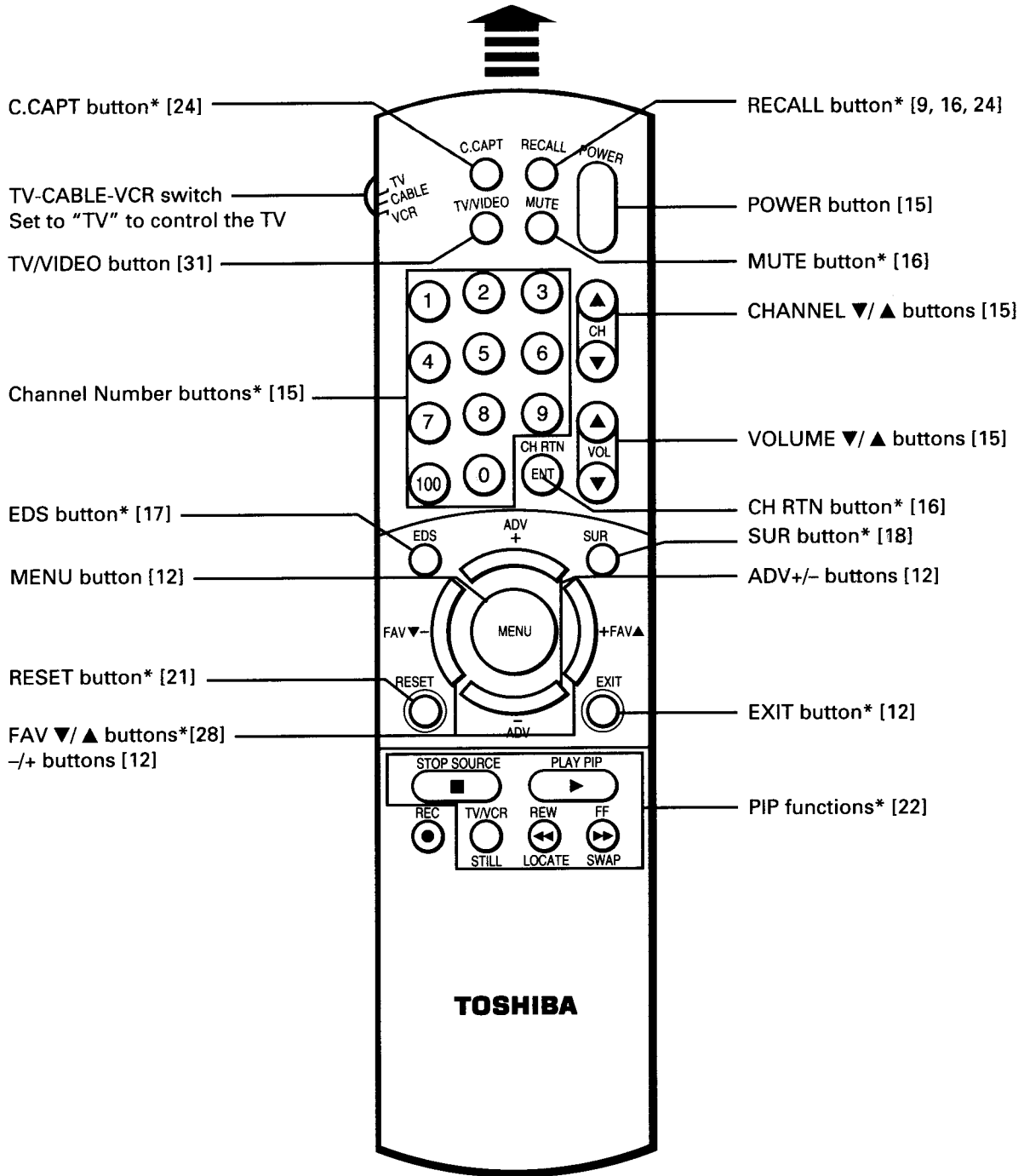
PREPARATION

Antenna/Cable TV Connection  
Location of Controls (TV set)

# Location of Controls (Remote Control)

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

Aim at the remote sensor on the TV.



\*These functions do not have duplicate locations on the TV set. They can be controlled only with the Remote Control.

# Before Using the Remote Control

## Introductions

With this Remote Control, you can operate your TV and most models of remote-controlled VCR's and Cable TV converters even if they are different brands.

However, this Remote Control must be programmed to control other brands of VCR's and/or Converters. If you will be using your TV set with a TOSHIBA VCR, your remote has already been preprogrammed for you.

- Before attempting to operate your Remote Control, install the batteries according to the section "Installing and replacing batteries" shown below.
- For more detailed instructions, see the section "Programming the Remote Control" on page 9.

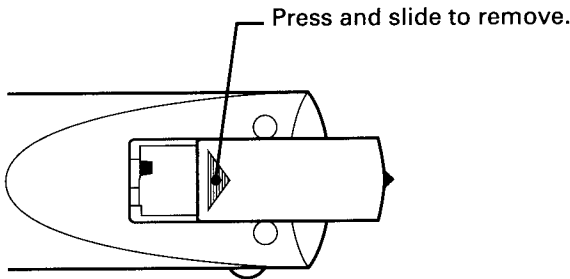
### Notes:

- After installing new batteries, the Remote Control will set itself to the codes for TOSHIBA's TV and VCR. If you are using the Remote Control to operate equipment that uses different codes, it will have to be reprogrammed for those codes.
- This Remote Control may have functions not available on the original remote control.
- These 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 functions are available.
- The remote control supplied with your VCR or Cable TV Converter may have keys not duplicated on this Remote Control. If these functions are desired, the original remote will have to be used.

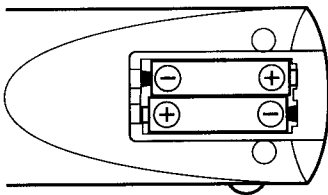
PREPARATION

## Installing and replacing batteries

- 1 Place the Remote Control with the face down. Press down on the ridged area of the battery cover and slide it off.



- 2 Place two "AAA" size batteries, matching the + and - signs on each battery to the + and - signs of the battery compartment.



- 3 Replace the battery cover until the lock snaps.

### CAUTION:

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

### Tips for Best Operation

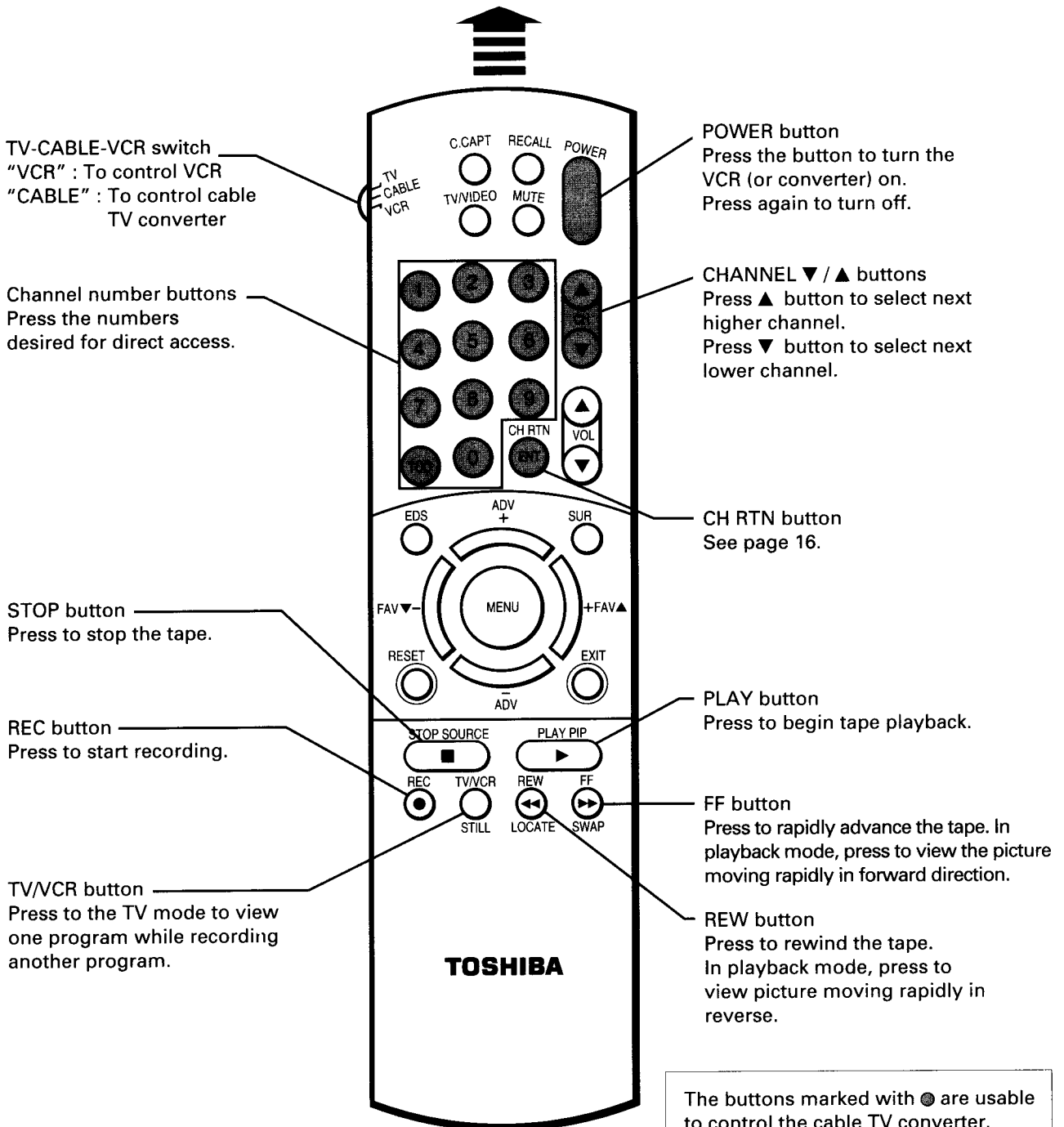
- For optimum performance, aim the Remote Control directly at the TV from a distance no more than 23 ft (7m) and be sure there is no obstruction between the Remote Control and the TV.
- If your Remote Control does not always adjust the TV as you wish, you probably need to replace the batteries.
- Remove dead batteries immediately to prevent battery acid from leaking into the battery compartment.
- If you do not intend to use the Remote Control for a long period, remove the batteries.

Location of Controls (Remote Control) / Before Using the Remote Control

# Using the Remote with VCR or Cable TV Converter

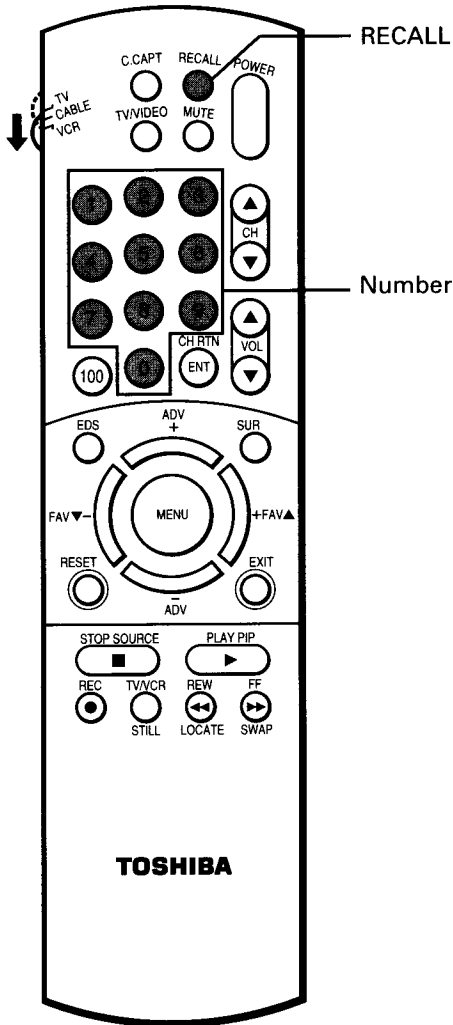
- To control TOSHIBA VCR, first set the TV-CABLE-VCR switch to "VCR" position. The buttons shown below will then control the VCR. The rest of the buttons operate the TV as usual. If you have another brand of VCR, you can probably program your Remote to control it. Details are on page 9.
- To control a cable TV converter, this Remote Control must be programmed to recognize the brand of your converter. See page 9. Set the TV-CABLE-VCR switch to "CABLE" position whenever you control the cable TV converter.

Aim at the VCR or cable TV converter



# Programming the Remote Control

- This Remote Control is preprogrammed to operate TOSHIBA VCR's.
- To use VCR's other than Toshiba models (or Cable converter), perform the following procedures before operating.



## To control other brands of VCR's and cable TV converters

**1** Refer to the "VCR code table" (or "Cable TV converter code table") on pages 10 and 11 to find the code number that corresponds to the brand name of your VCR (or your converter).

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

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

**3** Hold down **RECALL** while pressing the **Number** buttons for the three digit code number for your brand of VCR (or converter).

**4** Point the Remote Control at the VCR (or at the converter) and press **POWER** to test the code number.

- If the right number was entered, the VCR (or the converter) should turn on.
- If the VCR (or the converter) does not respond to the Remote Control, repeat steps 1 to 4 with another code number.

### Notes:

- You have to reprogram the Remote Control when you change its batteries.
- Some newer VCR's are capable of working on either of two remote codes. These VCR's have a switch labeled "VCR1/VCR2". If your VCR has this kind of switch, and does not respond to all the code numbers for your VCR brand name, set the switch to another position ("VCR1" or "VCR2") and reprogram the Remote Control.

For future reference, write the code you used.

VCR CODE: \_\_\_\_\_

CABLE CODE: \_\_\_\_\_

# Programming the Remote Control (Continued)

- In some rare cases, you may not be able to operate your non-Toshiba equipment with the supplied Remote Control. This is because your equipment may use a code that is not provided with this Remote Control. In this case, please use the equipment's own remote control.

## VCR code table

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

Pye .....	100
Quarter .....	065
Quartz .....	065
Quasar .....	054,096,115
Quelle .....	100
Radio Shack .....	019,056
Radiola .....	100
Radix .....	056
Randex .....	056
RCA .....	061,079,084,096 115,124,125,168 221
Realistic .....	019,054,056,065 066,067,081,085 123,259
Rex .....	060
Ricoh .....	053
Roadstar .....	056,091,259,297
Runco .....	058
Saba .....	060
Saisho .....	227,228
Salora .....	062,065,125
Samsung .....	064,259
Sanky .....	058,067
Sansui .....	060,086
Sanyo .....	065,066,123,259
SBR .....	100
Schaub Lorenz .....	019,060
Schneider .....	019,091,100,129
Scott .....	062,064,140,203 229,230,231
Sears .....	054,056,061,065 066,073,085,123 124
SEG .....	259
SEI .....	100
Seleco .....	060
Sentra .....	039
Sharp .....	067,081
Shintom .....	091
Shogun .....	259
Siemens .....	056,123
Silva .....	056
Singer .....	091
Sinudyne .....	100
Sontec .....	056
Sony .....	051,052,053,054
STS .....	061
Sunstar .....	019
Sylvania .....	019,054,062,100 129
Symphonic .....	019
Tashiko .....	019
Tatung .....	019,060,100
Teac .....	019,060
Technics .....	054,181

Teknika .....	019,054,056,071
Teleavia .....	060
Telefunken .....	060,206
Tenosal .....	091
Tensai .....	019
Thomson .....	060
Thorn .....	060,123
TMK .....	227,259
Toshiba .....	060,062,064,085 229,231,385
Totevision .....	056,259
Triumph .....	227
Unitech .....	259
Universum .....	019,056,068,100 125
Vector .....	064
Vector Research .....	057,059
Victor .....	027,060,086
Video Concepts .....	059,064,080
Videosonic .....	259
Wards .....	019,054,061,066 067,081,091,168 231,259
XR-1000 .....	019,054,091
Yamaha .....	057,060
Yamishi .....	091
Yokan .....	091
Yoko .....	039,259
Zenith .....	052,053,058

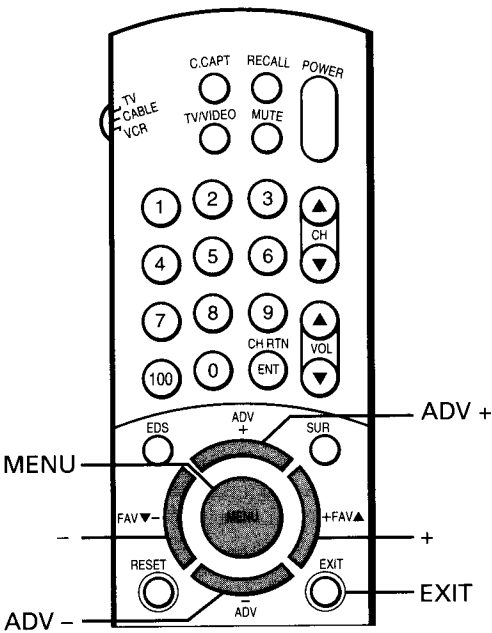
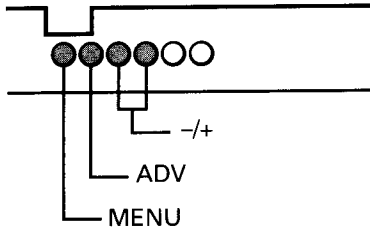
Hitachi .....	030
Hytex .....	026
Jasco .....	172
Jerrold .....	022,030,031,033 034,043,045,066
Macom .....	052
Magnavox .....	046
Memorex .....	019
Movie Time .....	175
NSC .....	089,175
Oak .....	026,038,267
Panasonic .....	040,126
Paragon .....	019
Philips .....	044,046,047,048 049,050,172
Pioneer .....	042,163
Pulsar .....	019
PVP Stereo Visual Matrix .....	022
RCA .....	040
Regal .....	039,278,292
Regency .....	021
Rembrandt .....	030,089
Runco .....	019
Samsung .....	059,163
Scientific Atlanta .....	025,027,036,296 346
Signal .....	034,059
Signature .....	030
SL Marx .....	059
Sprucer .....	040
Standard Components .....	174
Starcom .....	022,034,066
Stargate .....	034,059
Starquest .....	034
STS .....	075
Sylvania .....	020
Televiav .....	059
Texscan .....	020
Tocom .....	031,032,078
Toshiba .....	019
Tusa .....	034
Unika .....	041,172
United Artists .....	026
United Cable .....	022
Universal .....	041,058,075,096 172,210
Viewstar .....	046,079,230
Zenith .....	019

**Cable TV converter code table**

<b>BRAND NAME</b>	<b>CODE NUMBER</b>
ABC .....	020,022,026,030, 032,033,036,066
Antronix .....	041
Archer .....	041,058,172
Belcor .....	075
Cable Star .....	075
Cabletenna .....	041
Cableview .....	041
Century .....	172
Citizen .....	172
Colour Voice .....	044,050
Comtronics .....	059,079
Contec .....	038
Eastern .....	021
Garrard .....	172
GC Electronics .....	035,075
Gemini .....	034,089
General Instrument .....	030
Hamlin .....	028,039,053,278 292

# Menu Function (General Instructions)

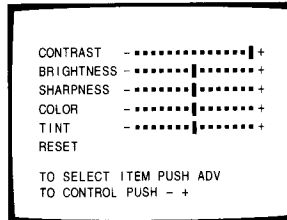
We suggest you familiarize yourself with the procedure before using the Menu function. To adjust any TV feature, the use of the Menu function is required. The adjustment that can be made to the TV appear on the screen.



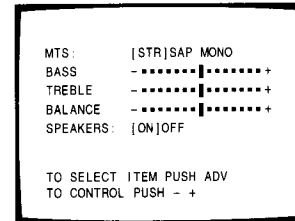
## MENU button (on TV and on Remote)

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

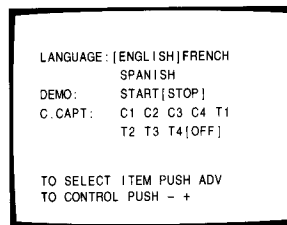
### Picture menu



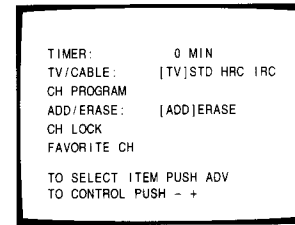
### Audio menu



### Option menu



### Setup menu



## ADV button (on TV and on Remote)

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

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

ADV + button ..... from bottom to top

ADV, ADV - button ..... from top to bottom

The selected function will be displayed in magenta.

## - /+ buttons (on TV and on Remote)

Use - /+ to adjust the function you have selected with the **ADV** button.

## EXIT button (on Remote)

The above four menu displays will automatically disappear from the screen if no control has been operated for about 15 seconds.

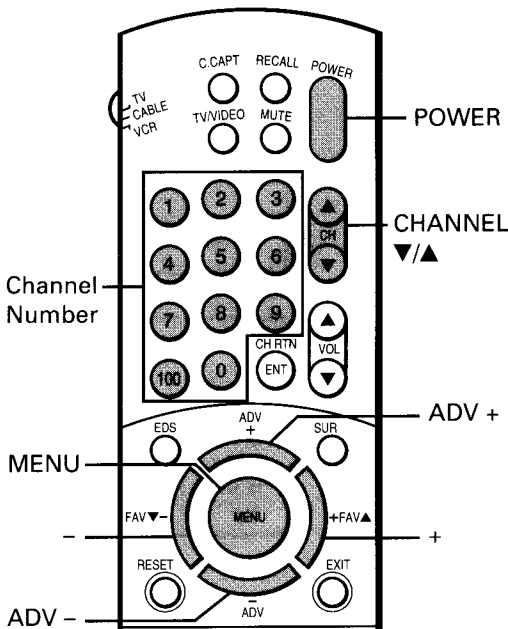
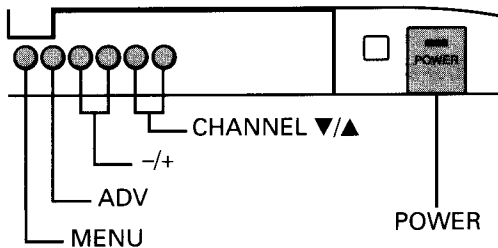
If you want to clear the screen of all on-screen displays instantly, press **EXIT**.

### Notes:

- The ADV button on the TV will function as the TV/VIDEO button when no menu display is on the screen.
- The -/+ buttons on the TV will function as the VOLUME ▼/▲ buttons when no menu display is on the screen.
- The -/+ buttons on the Remote Control will function as the FAV ▼/▲ buttons when no menu display is on the screen.

# Programming Channel Memory

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



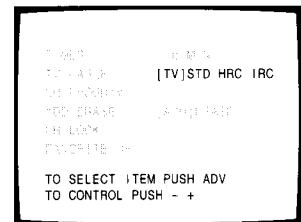
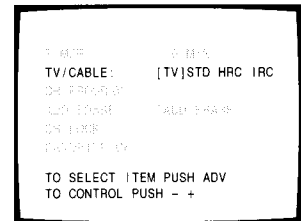
\* This TV receives the following TV signals:

1. **TV:** TV broadcasts signals. (VHF channels 2 through 13 and UHF channels 14 through 69)
2. **STD CABLE:** Standard cable TV signals.
3. **HRC CABLE:** Harmonic Related Carrier cable TV signals.
4. **IRC CABLE:** Incremental Related Carrier cable TV signals.

If you are not sure what CABLE system they are using, consult your local cable company.

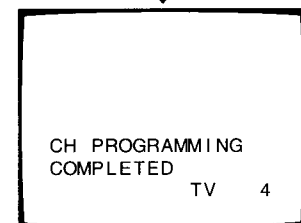
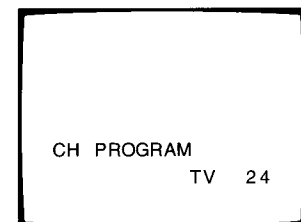
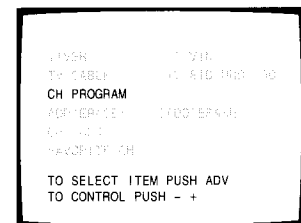
## TV/CABLE function

- 1 Press **POWER** to turn on the TV.
- 2 Press **MENU** repeatedly until the Setup menu is displayed on the screen.
- 3 Press **ADV** repeatedly until "TV/CABLE" is displayed in magenta.
- 4 Press **-** or **+** until the mode that corresponds to your TV signal system is displayed in magenta. Each time you press the button, the TV\*, STD CABLE\*, HRC CABLE\* or IRC CABLE\* mode will be selected in order.



## CH PROGRAM function

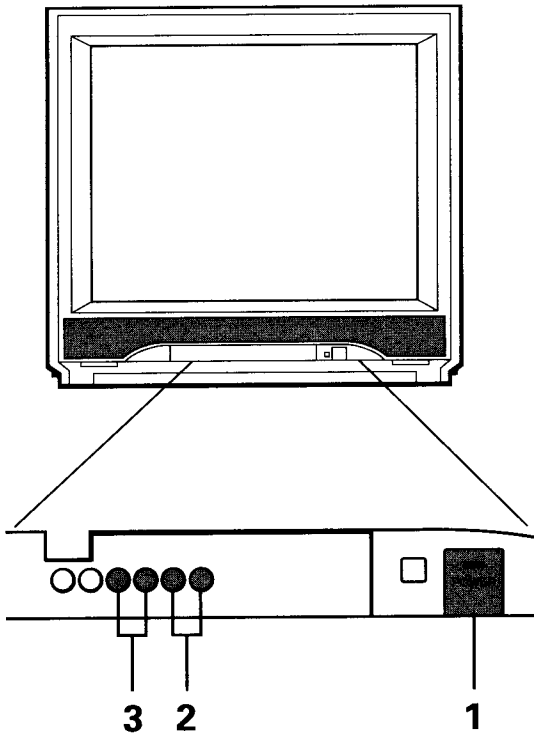
- 1 Press **MENU** repeatedly until the Setup menu is displayed on the screen.
- 2 Press **ADV** repeatedly until "CH PROGRAM" is displayed in magenta.
- 3 Press **-** or **+** to start channel programming. The TV will automatically cycle through all the TV or CABLE channels depending on the mode selected, and store active channels in the channel memory.
- 4 When channel programming is complete, you will see the message at the right.
- 5 Press **CHANNEL ▲** or **▼** to make sure the channel programming has been done properly.





# Watching TV Programs

- First set the TV-CABLE-VCR switch to "TV" position.



## 1 Press **POWER** to turn on the TV.

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



## 2 Select a channel in one of the following two ways.

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

Press **CHANNEL ▲** to select the next higher channel.

Press **CHANNEL ▼** to select the next lower channel.

Press the button again to select the next memorized channels.

### • To select a channel directly

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

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

To select channel 38, press "3", "8".

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

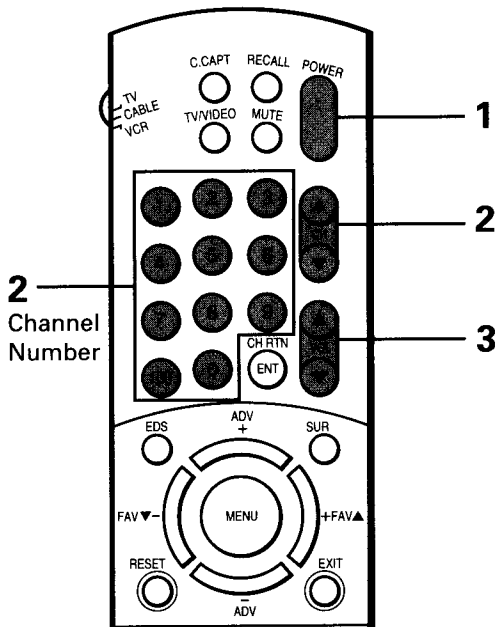
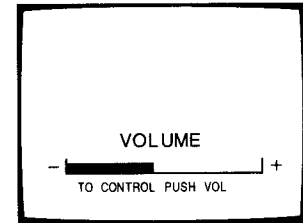
**If you cannot select certain channels, either TV (off the air) or CABLE channels**

Check if the TV/CABLE function is properly set. See page 13.

## 3 Press **VOLUME ▲/▼** to adjust the volume.

To increase the volume, press **▲**.

To decrease the volume, press **▼**.



## Watching Video Input

The TV/VIDEO button is used to view the signals coming from other devices like VCR's or Laserdisk Players connected to this TV. Details are on page 31.

## Auto-Power-Off

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

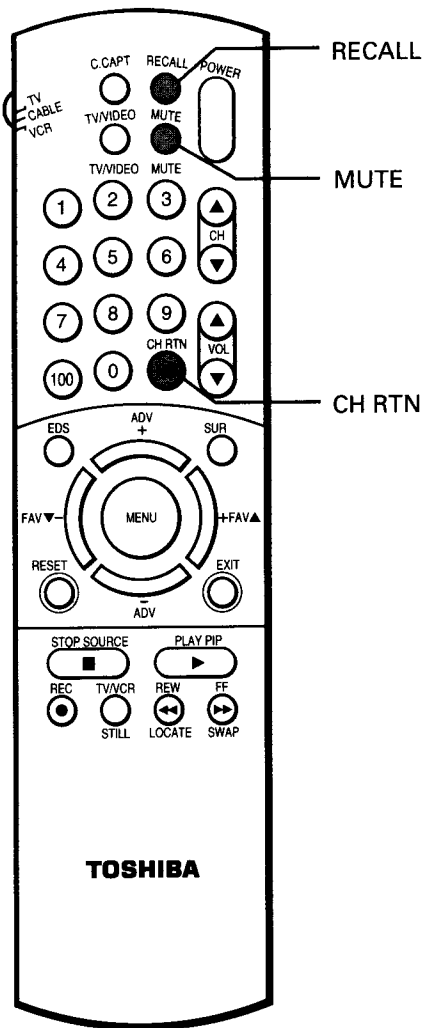
## Last Mode Memory

If the power is cut off while you are viewing the TV and the power is resupplied, the TV is turned on automatically by the *Last Mode Memory* feature. If the power is going to be off or when you leave home for a long time, remove the power plug from the wall outlet to prevent the TV from turning on in your absence.

### **Note:**

The VOLUME ▼/▲ buttons on the TV function as the MENU -/+ buttons while any of the menu displays (Picture, Audio, Setup or Option) is on the screen.

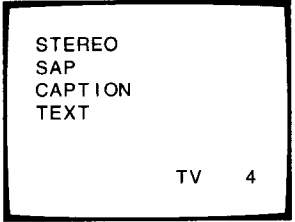
# Convenient Remote Functions



## To display on-screen information

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

- Channel number
- VIDEO mode selected
- Stereo or SAP audio status
- Closed Caption or Text program status

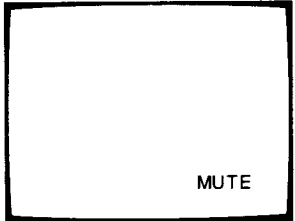


## To mute the sound

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

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

**Note:** When the MUTE button is pressed, the Closed-Captioned feature is activated. To deactivate, press the MENU button again. (This feature only functions when the Closed Caption mode is set to "OFF".)



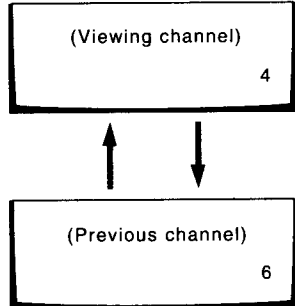
## To change quickly between two channels

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

### To operate this function

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

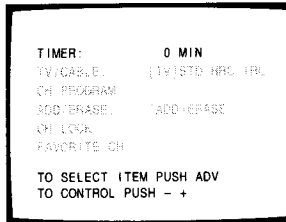
Each time you press **CH RTN**, the TV will switch back and forth between the two channels.



## To set the off-timer

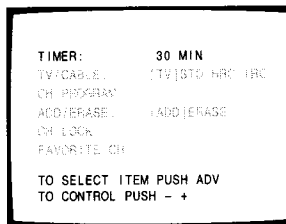
With the off-timer, you can set the TV to turn off automatically after a predetermined period of time (up to 3 hours, in 10 minutes units).

1 Press **MENU** repeatedly until the Setup menu is displayed on the screen.



2 Press **ADV** repeatedly until "TIMER" is displayed in magenta.

3 Press **+** or **-** to enter the length of time you want the TV to stay on. Each time you press the button, the time display will increase or decrease 10 minutes.



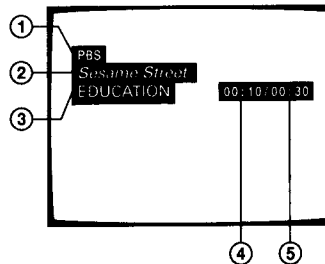
### Note:

- To cancel the off-timer, press **POWER**.
- To turn the TV on again, press **POWER**.

## To display the EDS information

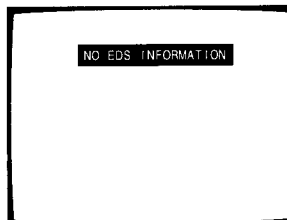
Press **EDS** to display the following EDS (Extended Data Service) information.

- Network name ①
- Program name ②
- Program type ③
- Time in show ④
- Program length ⑤



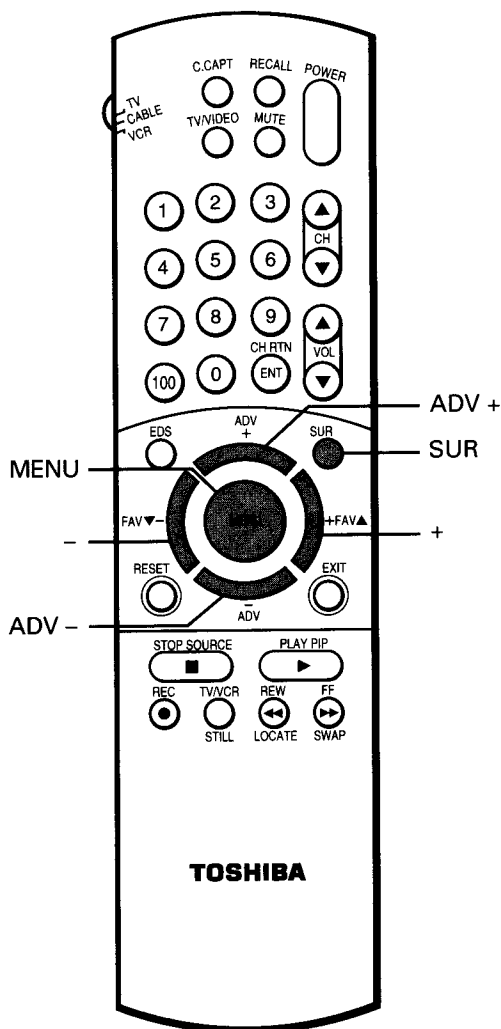
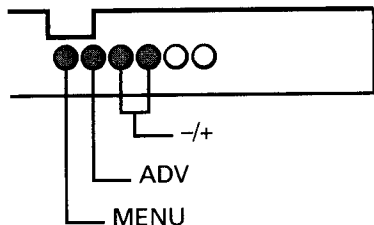
Some of the above information may not be displayed.

If the TV program you are watching does not include the EDS information "NO EDS INFORMATION" will be displayed instead for about 10 seconds when you press EDS.



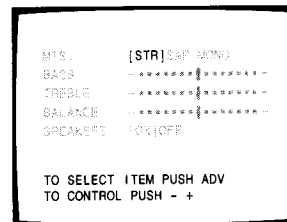
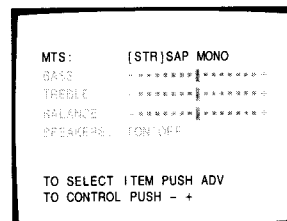
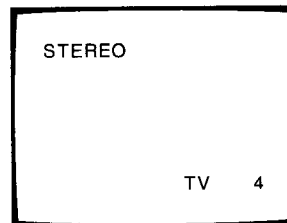
# Selecting Stereo/SAP Broadcasts

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



## Listening to stereo sound

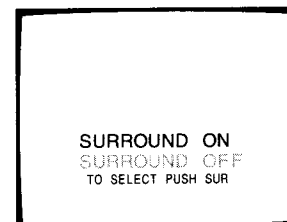
- 1 When the TV receives a stereo broadcast, the word "STEREO" is displayed on the screen whenever the TV is turned on, a channel is selected, or the RECALL button is pressed.
- 2 Press **MENU** repeatedly until the Audio menu is displayed on the screen.
- 3 Press **ADV** repeatedly until "MTS" is displayed in magenta. Usable selections are displayed in yellow.
- 4 Press **-** or **+** until "STR" (stereo) is displayed in magenta.



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

## Activating surround sound effect

- 1 Select the STEREO mode as described above.
- 2 Press **SUR** repeatedly until "SURROUND ON" is displayed in magenta. The surround function has now been activated.



**To deactivate the surround effect**  
Select "SURROUND OFF" in step 2 above.

**Note:** Normally you can leave the STEREO mode turned on and the surround function activated. The TV will automatically produce either surround stereo or monaural, whatever is broadcast.

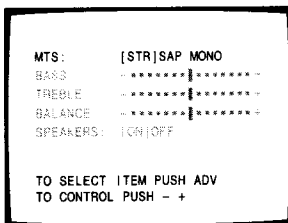
**If the stereo sound is noisy**  
Be sure you have selected the STEREO mode if broadcast is in stereo. However, if a broadcast signal is not strong enough, and noise-free stereo sound is not available, select "MONO" (monaural) mode. The noise should be reduced.

## Listening to second language

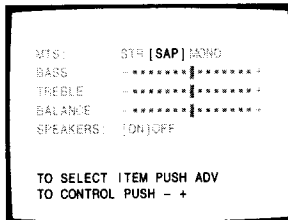
- 1 When the TV receives a SAP broadcast, the word "SAP" is displayed on the screen.



- 2 Press **MENU** repeatedly until the Audio menu is displayed on the screen.
- 3 Press **ADV** repeatedly until "MTS" is displayed in magenta. Usable selections are displayed in yellow.



- 4 Press - or + until "SAP" is displayed in magenta. You will hear only the second language from the left and right speakers.



### Notes:

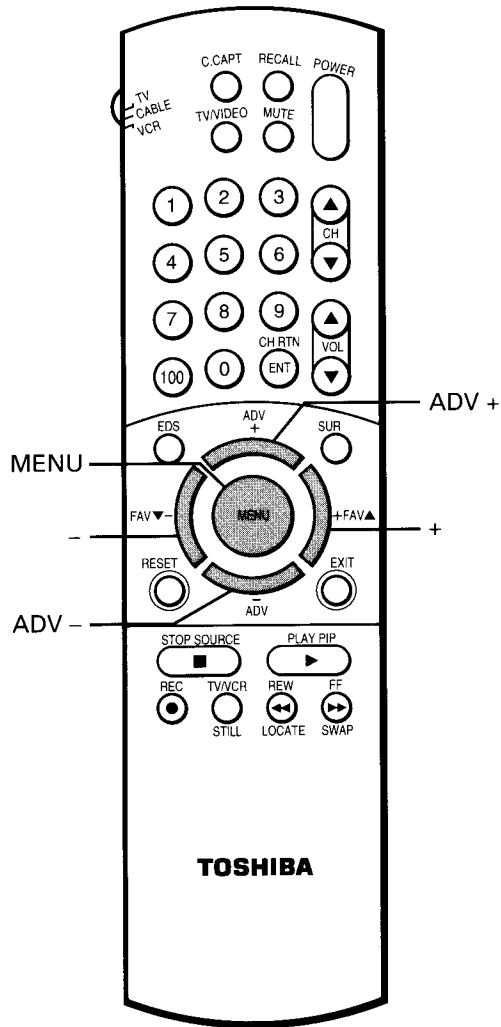
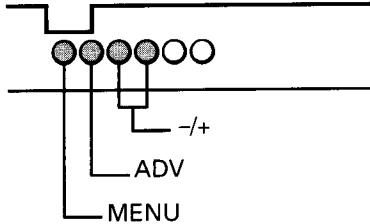
- Be sure you have selected "STR" mode if broadcast is in stereo.
- "MTS" in the Audio menu does not function in the VIDEO mode.

BASIC OPERATION

Selecting Stereo/SAP Broadcasts

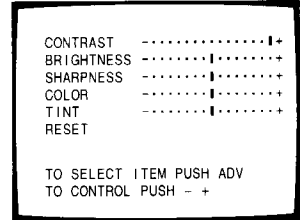
# Adjusting the Picture

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



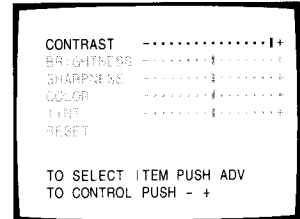
## To adjust the picture quality

- 1 Press **MENU** repeatedly until the Picture menu is displayed on the screen.
- 2 Press **ADV** repeatedly until the item you want to adjust is displayed in magenta.



- 3 Press **-** or **+** to adjust the level.

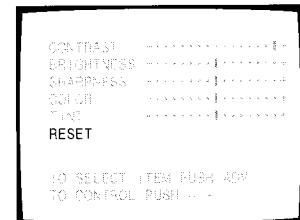
**Example:** CONTRAST adjustment mode display



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

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

- 1 Press **MENU** repeatedly until the Picture menu is displayed on the screen.
- 2 Press **ADV** repeatedly until "RESET" is displayed in magenta.



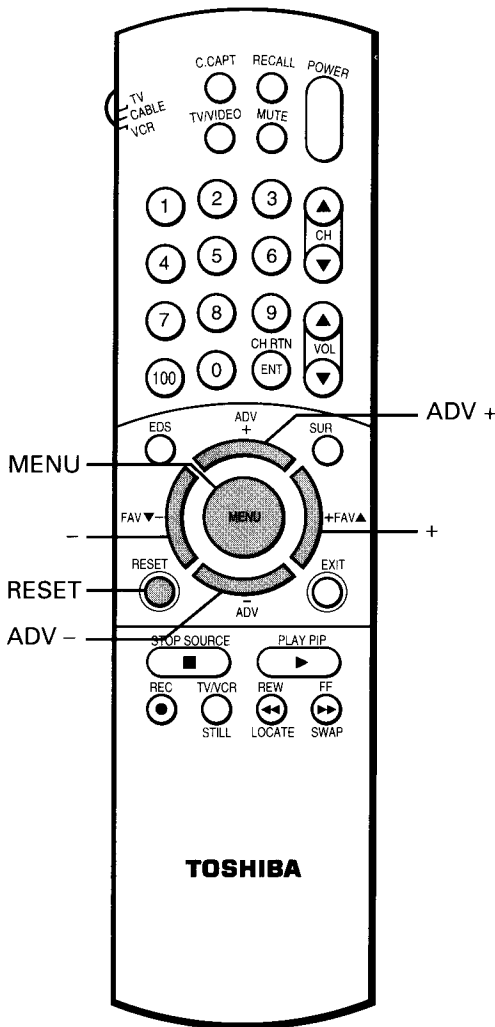
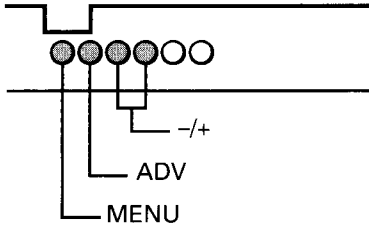
- 3 Press **-** or **+**.



**Note:** You can also use the RESET button on the Remote Control. (See page 21.)

# Adjusting the Sound

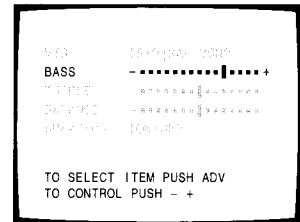
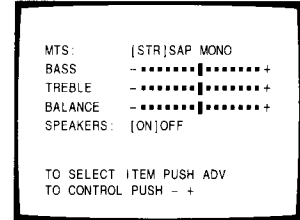
You can adjust the sound quality (BASS, TREBLE and BALANCE) to suit your taste.



## Adjusting the sound quality

- 1 Press **MENU** repeatedly until the Audio menu is displayed on the screen.
- 2 Press **ADV** repeatedly until the item you want to adjust is displayed in magenta.
- 3 Press **-** or **+** to adjust the level.

Example: BASS adjustment mode display

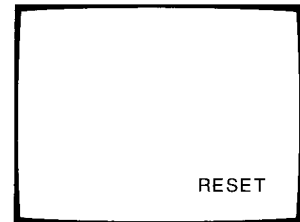


Selection	Pressing	
	-	+
BASS	weaker	stronger
TREBLE	weaker	stronger
BALANCE	decreases the right channel	decreases the left channel

### RESET button (on the Remote Control)

To reset the picture and audio adjustments to the factory-preset level (maximum CONTRAST and all other adjustments centered)

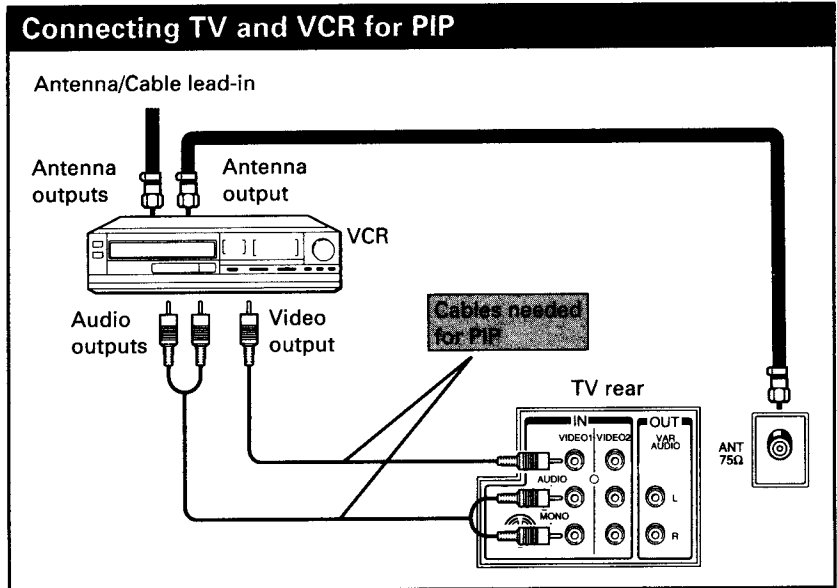
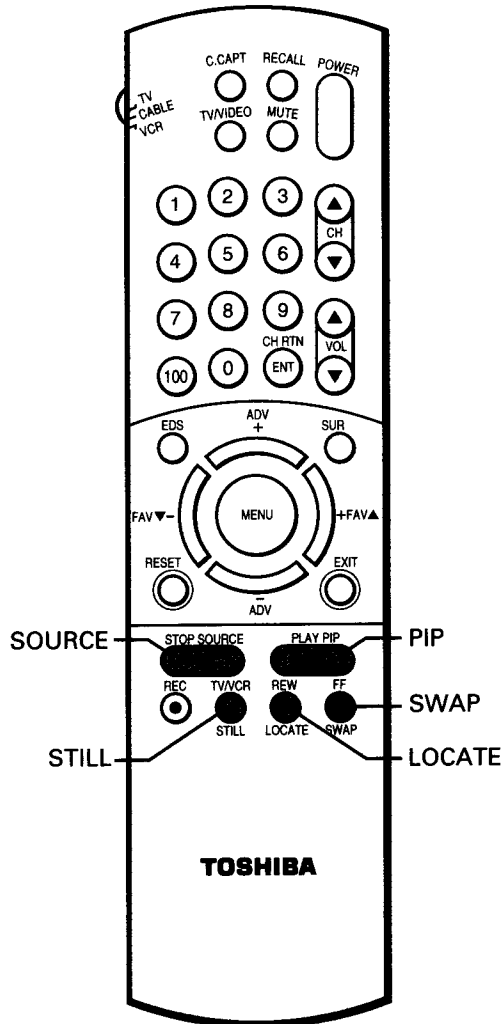
Press **RESET**.



**Note:** The "SPEAKERS" function is explained on page 33.

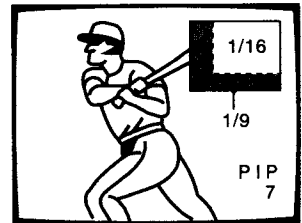
# Watching Picture-in-Picture

In addition to the main picture, another TV program or video source being received through the VIDEO input jacks can be displayed simultaneously as a small picture. This is called PIP (Picture-in-Picture).  
**Be sure to connect a VCR with the VIDEO/AUDIO cables.**

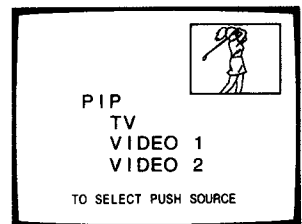


### Displaying a small picture

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



**2** Press **SOURCE** repeatedly to select the input source for the small picture.  
 Select "VIDEO 1" or "VIDEO 2".  
 The selected mode will be displayed in magenta.



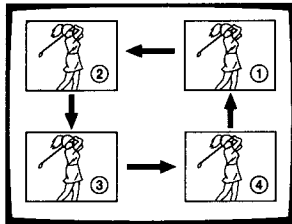
**3** Select channels for the PIP using the VCR's channel keys.

- To turn off the small picture, press PIP**
- **Twice**, if you watch the 1/9 size window picture.
  - **Once**, if you watch the 1/16 size window picture.

## Using advanced functions

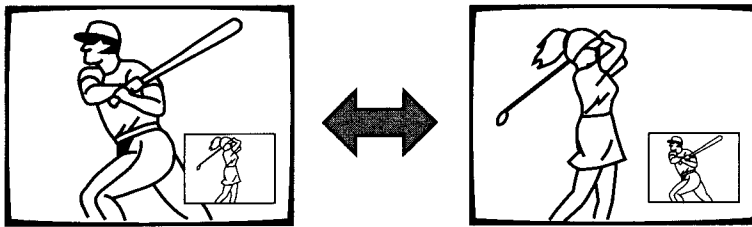
### To change the position of the small picture

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



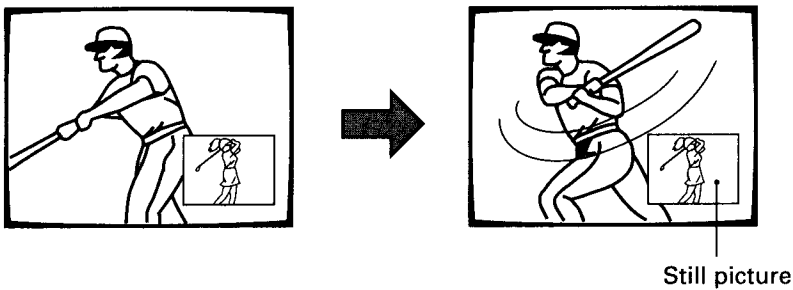
### To switch the main and small picture

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

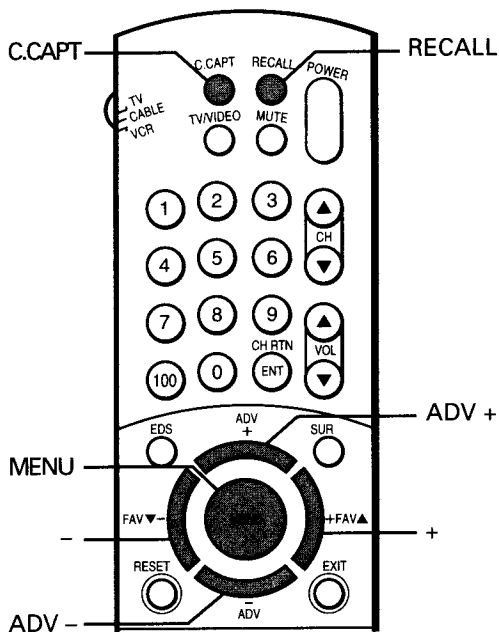
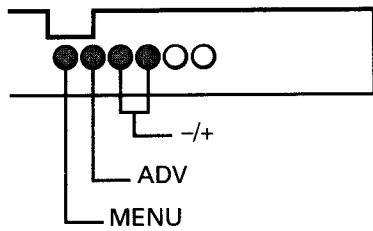
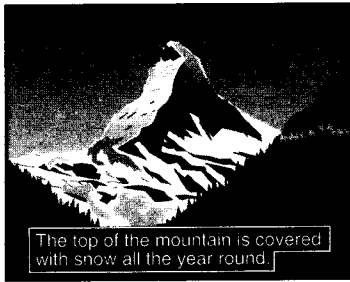


### To freeze the small picture

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



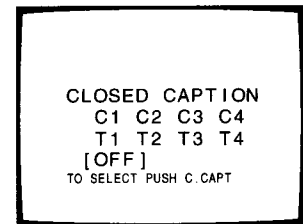
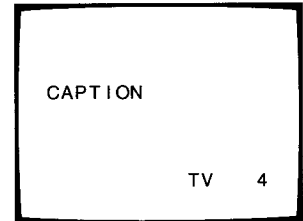
# Using Closed-Captioned Function



## To view captions

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

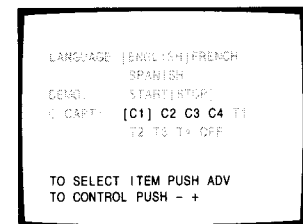
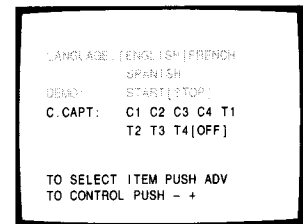
- 1 Select the desired program.
- 2 Press **RECALL** to check if the program is being captioned. If it is, the word "CAPTION" is displayed on the screen. The captioned programs are usually notated on your local TV listings by its service marks such as "CC".
- 3 Press **C.CAPT** on the Remote Control to call up the CLOSED CAPTION menu. Usable selections are displayed in yellow.



Press **C.CAPT** repeatedly until "C1", "C2", "C3" or "C4" is displayed in magenta. ("C1" stands for CAPTION 1, for example.) Select "C1" for translation of the primary language in your area. Select "C3" for captioning information usually of secondary languages. "C2" or "C4" carry Closed Captioning but not necessarily in the same time frame as the sound from the program.

## You can also select this feature using the on-screen menu function.

- 1 Press **MENU** repeatedly until the Option menu is displayed on the screen.
- 2 Press **ADV** repeatedly until "C.CAPT" is displayed in magenta.
- 3 Press **-** or **+** to select "C1", "C2", "C3" or "C4".



### Note:

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

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

### To deactivate this feature

Select "OFF" in the closed caption mode display.

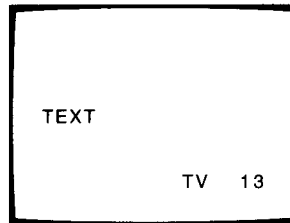
## To view text

Text is information that is presented using from one half to full television screen. It is usually not related to the program.

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

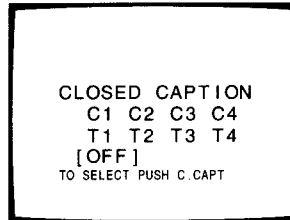
	Temps		Current Weather
	F	C	
LONDON	51	11	Clear
MOSCOW	57	14	Cloudy
PARIS	53	12	Clear
ROME	66	19	Cloudy
TOKYO	65	18	Rain

- 1 Select the desired program.
- 2 Press **RECALL** to check if the program includes text information. If it is, the word "TEXT" is displayed on the screen.



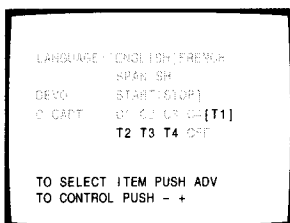
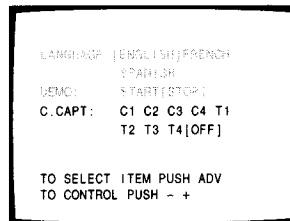
- 3 Press **C.CAPT** on the Remote Control to call up the CLOSED CAPTION menu. Usable selections are displayed in yellow.

Press **C.CAPT** repeatedly until "T1", "T2", "T3" or "T4" is displayed in magenta.  
("T1" stands for TEXT 1, for example.)



You can also select this feature using the on-screen menu function.

- 1 Press **MENU** repeatedly until the Option menu is displayed on the screen.
- 2 Press **ADV** repeatedly until "C.CAPT" is displayed in magenta.
- 3 Press **-** or **+** to select "T1", "T2", "T3" or "T4".



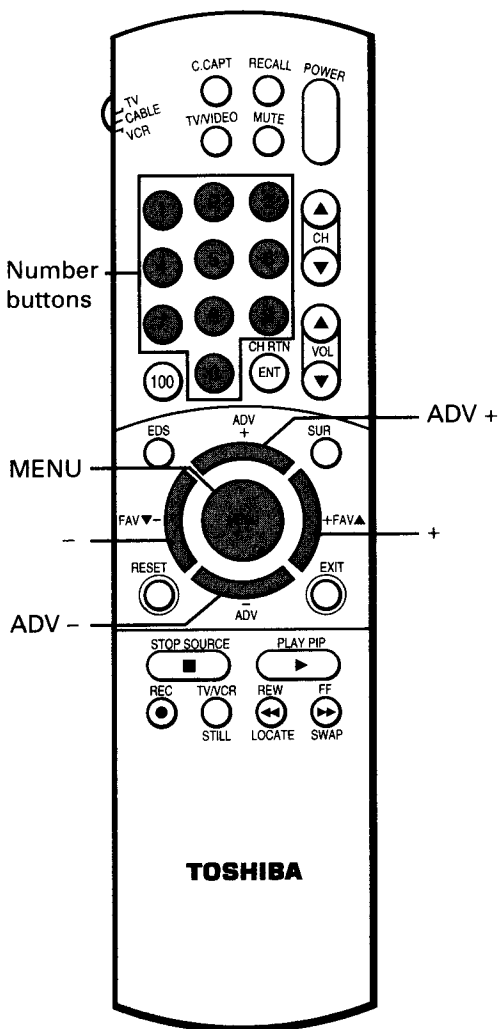
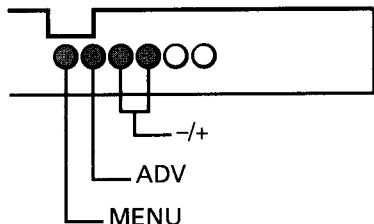
## To deactivate this feature

Select "OFF" in the closed caption mode display.

**Note:** If you select a closed-captioned channel and the "TEXT" mode, the TEXT screen always appears. However, TEXT characters are not displayed when no signal is aired.

# Locking Channels

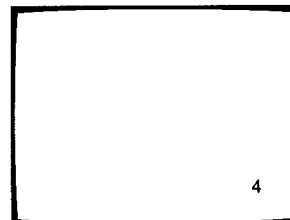
With this function you can lock out specific channels (for example a channel that you do not want your children to watch) by entering your own 4-digit code. The TV will not be able to tune them for the next 24 hours, unless you cancel the locked out channels. This TV has 4 memory spaces total for the TV mode and CABLE mode respectively.



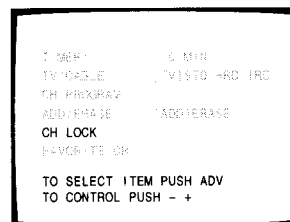
## Locking out channels

1 Select a channel you want to lock out.

**Example:** channel 4



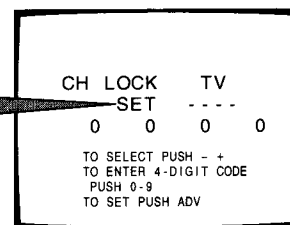
2 Press **MENU** repeatedly until the Setup menu is displayed on the screen.



3 Press **ADV** repeatedly until "CH LOCK" is displayed in magenta.

4 Press - or + to call up the channel lock adjustment display shown below. Each time you press the button, you are guided between "SET" and "CLEAR". Select "SET"

SET  
↓↑  
CLEAR



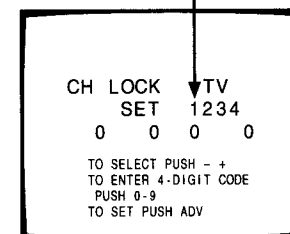
5 Press Number buttons (0 - 9) to enter a 4-digit code.

The numbers you enter will replace the dashes in the display. **Pick a number that is easy to remember.**

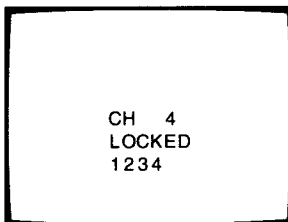
**Example:** To enter "1234"

Press 1, 2, 3 and 4 in order.

1 - - - → 12 - - → 123 - → 1234



- 6** Press **ADV** to lock out the channel.  
The display at the right will appear on the screen for about 4 seconds.



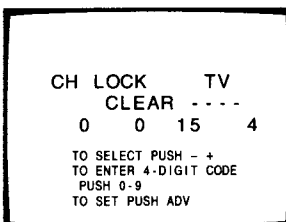
- 7** Repeat steps 1 to 6 for other channels.  
This TV has 4 memory spaces total for the TV mode and CABLE mode respectively.

**Note:** If a different code number is used whenever you lock out a channel, the last one has priority over the preceding ones.

- 8** Select another channel, or turn off the TV if desired.

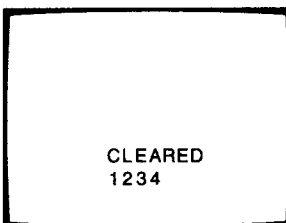
### Restoring channels

- 1** Select "CLEAR" following the steps 2 to 4 on the previous page.

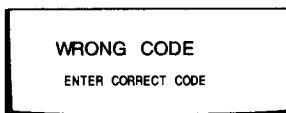


- 2** Press the 4-digit code used to lock out the channels with the Number buttons.

- 3** Press **ADV**.  
**If you have entered the correct code**  
The display shown at the right appears.



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



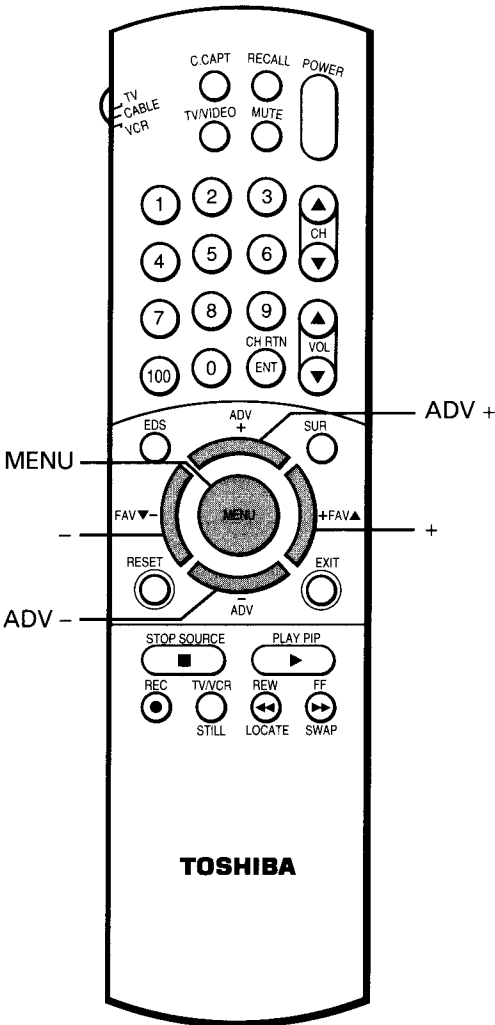
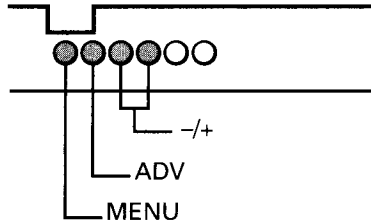
**If you want to know the channels you have locked out**  
Call up the channel lock adjustment mode using the Setup menu.





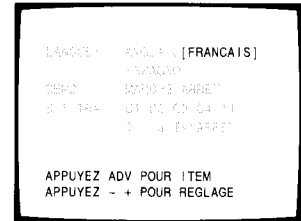
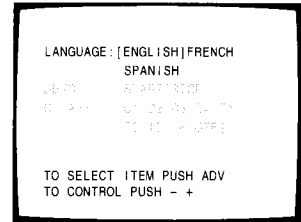
# Changing On-Screen Display Language

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

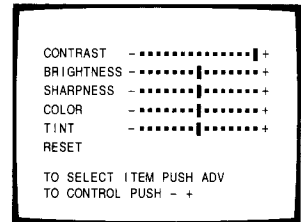


## Selecting a language

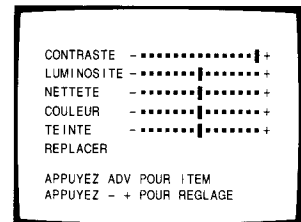
- 1 Press **MENU** repeatedly until the Option menu is displayed on the screen.
- 2 Press **ADV** repeatedly until "LANGUAGE" is displayed in magenta.
- 3 Press **-** or **+** until your desired language is displayed in magenta. If you select "FRENCH" for example, the display language changes to French.



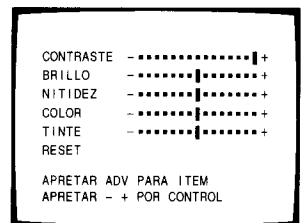
**Example:** Picture menu display "ENGLISH"



"FRENCH"

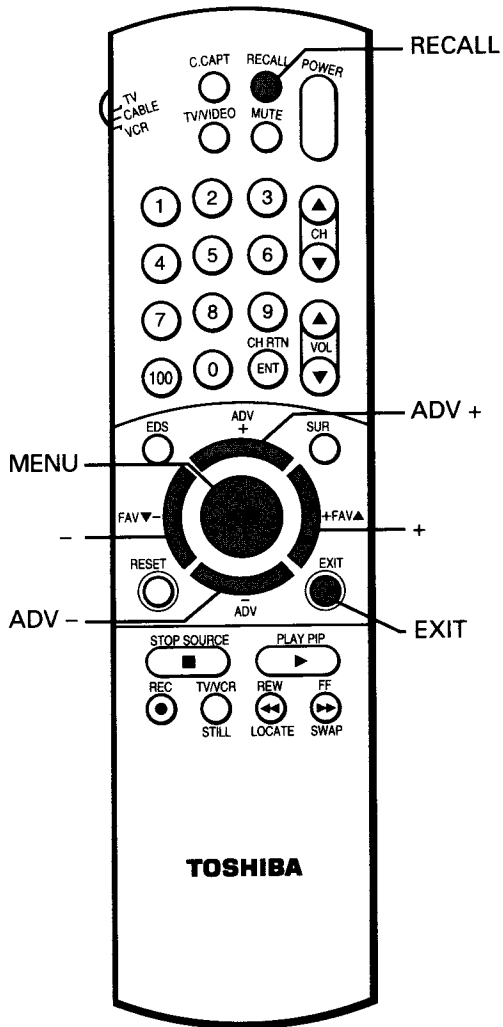
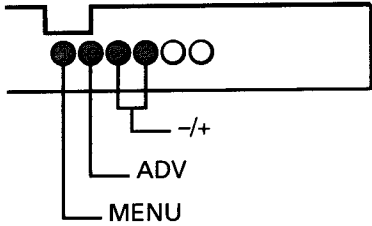


"SPANISH"



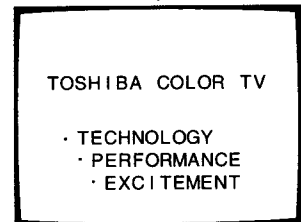
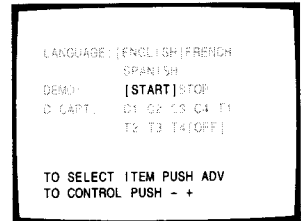
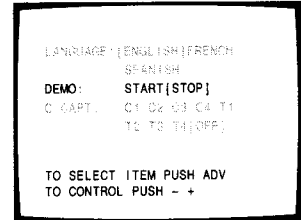
# Demonstration Mode

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



## Starting the on-screen demonstration

- 1 Press **MENU** repeatedly until the Option menu is displayed on the screen.
- 2 Press **ADV** repeatedly until "DEMO" is displayed in magenta.
- 3 Press **-** or **+** until "START" is displayed in magenta. The on-screen demonstration will start after about 6 seconds.



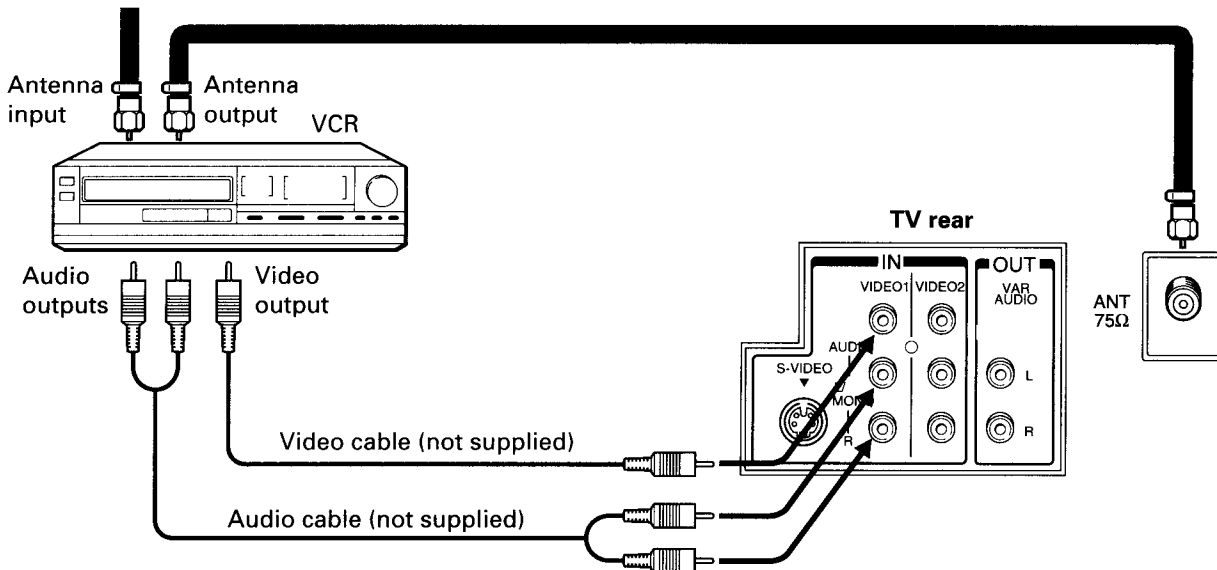
**To stop the demonstration**  
 Press **RECALL** or **EXIT**, or select "STOP" in step 3 above.

# Connecting Video Equipment

## Connecting video equipment having standard video output

Connect VIDEO 1 or VIDEO 2 IN jacks on the rear of the TV to the video/audio output jacks of a VCR, Laserdisk player, etc. for playback of video material.

Antenna/Cable lead-in



### To select video input source

To operate your TV and video equipment properly, refer to the instructions furnished with the video equipment.

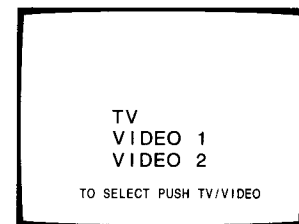
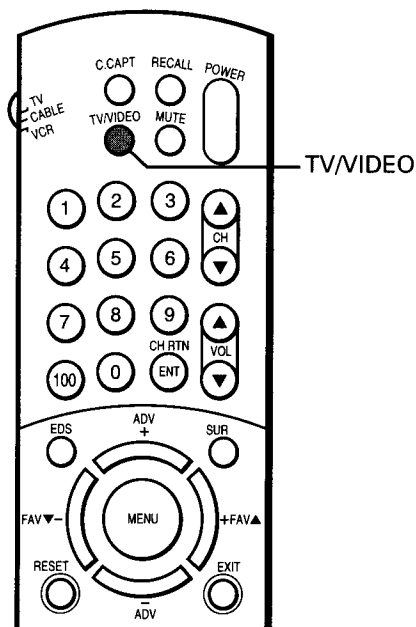
**1** Turn the TV and the video equipment ON.

**2** Press **TV/VIDEO** on the Remote Control to select the appropriate source. Each time you press the button, TV, VIDEO 1 or VIDEO 2 source will be selected in order. The selected source will be displayed in magenta.

**3** Operate the video equipment normally.

#### Notes:

- The VIDEO 2 IN jacks can also be used for connecting a second piece of video equipment with video/audio outputs. To view video from equipment connected to the VIDEO 2 jacks, select "VIDEO 2".
- If you connect a monaural video equipment, connect the audio output of the video equipment to the L/MONO jack of VIDEO 1/2 on the TV.



Demonstration Mode  
Connecting Video Equipment

ADVANCED  
OPERATION

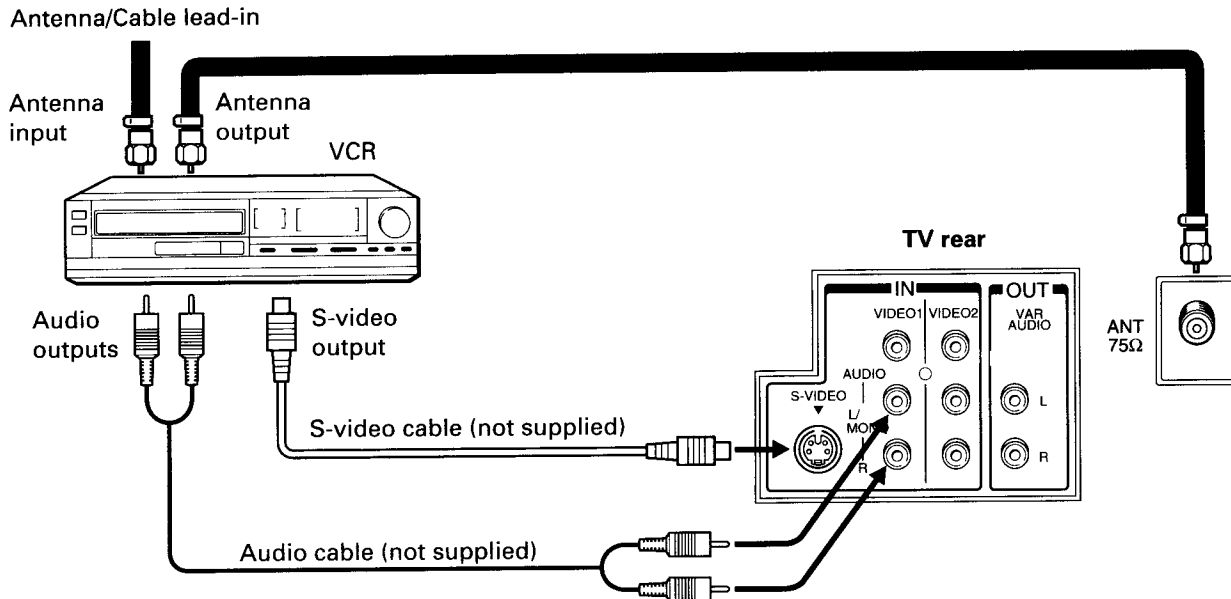
EQUIPMENT  
CONNECTIONS

# Connecting Video Equipment (Continued)

## Connecting video equipment having S-video output

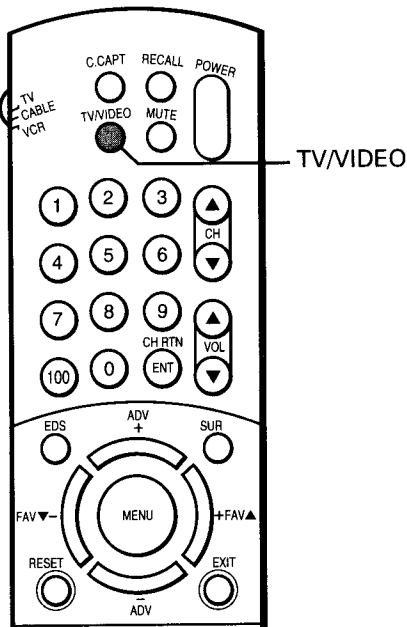
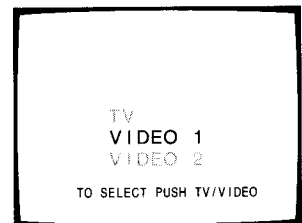
If your VCR or other video equipment has an S-video output jack, connect the jack to the S-VIDEO jack of the TV for better picture quality.

In this case, you must connect the audio outputs of the video equipment to the AUDIO jacks of VIDEO 1 on the TV.



### To select video input source

- 1 Turn the TV and the video equipment ON.
- 2 Press **TV/VIDEO** on the Remote Control to select "VIDEO 1".
- 3 Operate the video equipment normally.

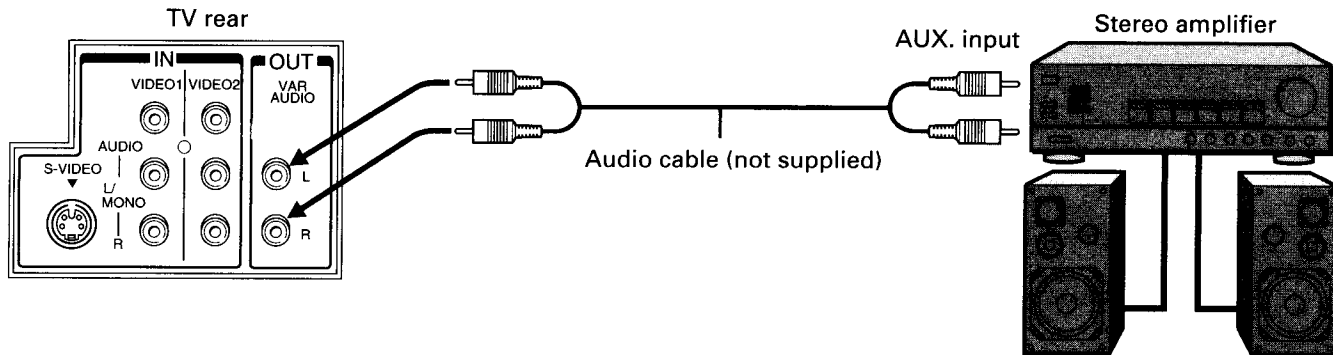


### Notes:

- If you connect a monaural video equipment, connect the audio output of the video equipment to the L/MONO jack of VIDEO 1 on the TV.
- When the S-video cable is connected to the S-VIDEO IN jack, the video jack does not have to be connected.
- The S-video terminal accepts separated luminance/chrominance (Y-C) signals conforming to the NTSC standard.

# Connecting an Audio Amplifier

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



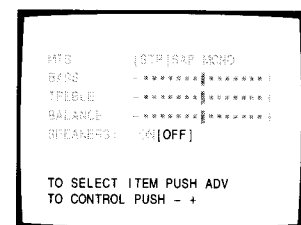
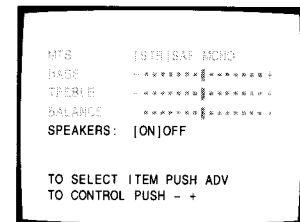
## Preparing for use

- 1 Turn the TV and the stereo amplifier ON.
- 2 Adjust the VOLUME buttons on the TV for a moderate listening level.
- 3 Disconnect the built-in speakers following the instructions at the right.
- 4 Adjust the volume control on the stereo amplifier for a moderate listening level.
- 5 Control of the audio can now be done using the VOLUME and MUTE buttons on the Remote Control of the TV, and using the Audio menu items (BASS, TREBLE and BALANCE).

## Disconnecting the built-in speakers

- 1 Press **MENU** repeatedly until the Audio menu is displayed on the screen.
- 2 Press **ADV** repeatedly until "SPEAKERS" is displayed in magenta.
- 3 Press **-** or **+** until "OFF" is displayed in magenta.

The built-in speakers will be disconnected.



**To use the built-in speakers again**  
Select "ON" in step 3 above.

# Before Calling Service Personnel

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

Symptoms	Check	Adjustments
● No picture, no sound	<ul style="list-style-type: none"> <li>● Be sure power cord is plugged in.</li> <li>● May be station trouble.</li> <li>● Check antenna connections.</li> <li>● Check antenna for broken wires.</li> </ul>	<ul style="list-style-type: none"> <li>● Press POWER button.</li> <li>● Try another channel.</li> </ul>
● No sound, picture OK	<ul style="list-style-type: none"> <li>● May be station trouble.</li> <li>● Check if SPEAKERS ON/OFF function (page 33) is properly set.</li> </ul>	<ul style="list-style-type: none"> <li>● Try another channel.</li> <li>● Adjust VOLUME.</li> </ul>
● Poor sound, picture OK	<ul style="list-style-type: none"> <li>● May be station trouble.</li> <li>● Check antenna connections.</li> <li>● May be local interference from appliance.</li> </ul>	<ul style="list-style-type: none"> <li>● Try another channel.</li> <li>● Adjust VOLUME.</li> <li>● Adjust BASS, TREBLE, or BALANCE control.</li> <li>● Re-orient antenna.</li> </ul>
<ul style="list-style-type: none"> <li>● Poor picture, sound OK</li> <li>● Snowy picture</li> <li>● Lines in picture</li> <li>● Distorted picture</li> <li>● Weak picture</li> </ul>	<ul style="list-style-type: none"> <li>● May be local interference from appliance.</li> <li>● Check antenna connections.</li> <li>● Check antenna for broken wires.</li> <li>● May be station trouble.</li> </ul>	<ul style="list-style-type: none"> <li>● Try another channel.</li> <li>● Adjust BRIGHTNESS.</li> <li>● Adjust CONTRAST.</li> <li>● Adjust SHARPNESS.</li> <li>● Re-orient antenna.</li> </ul>
● Poor reception of broadcast channels	<ul style="list-style-type: none"> <li>● Check antenna connections.</li> <li>● Check antenna for broken wires.</li> <li>● If VCR is connected, check TV/VCR switch.</li> </ul>	<ul style="list-style-type: none"> <li>● Try another channel.</li> <li>● Re-orient antenna.</li> </ul>
● No UHF, VHF OK	<ul style="list-style-type: none"> <li>● Be sure TV/CABLE function (page 13) is in "TV" mode.</li> </ul>	
● Unable to select a certain channel	<ul style="list-style-type: none"> <li>● That channel may be locked out with CH LOCK function (page 26), or erased with the ADD/ERASE function (page 14).</li> </ul>	
● Multiple images (ghosts)	<ul style="list-style-type: none"> <li>● May be station trouble.</li> <li>● Check antenna connections.</li> </ul>	<ul style="list-style-type: none"> <li>● Try another channel.</li> <li>● Re-orient antenna.</li> </ul>
● Poor color or No color	<ul style="list-style-type: none"> <li>● May be station trouble.</li> <li>● Check antenna connections.</li> <li>● Check antenna for broken wires.</li> <li>● May be local interference from appliance.</li> <li>● Check if station is broadcasting in color.</li> <li>● 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 for about 30 minutes to cool, then turn on the TV again. The picture should improve.</li> </ul>	<ul style="list-style-type: none"> <li>● Try another channel.</li> <li>● Re-orient antenna.</li> <li>● Adjust TINT.</li> <li>● Adjust COLOR.</li> </ul>
● Remote Control does not work	<ul style="list-style-type: none"> <li>● Be sure power cord is plugged in.</li> <li>● Check battery in Remote Control.</li> </ul>	<ul style="list-style-type: none"> <li>● Change batteries.</li> </ul>
● No stereo or SAP sound from a known MTS broadcast	<ul style="list-style-type: none"> <li>● Check if MTS function is properly set.</li> </ul>	
● Remote control does not work	<ul style="list-style-type: none"> <li>● Check if TV-CABLE-VCR switch is properly set.</li> <li>● Be sure power cord is plugged in.</li> <li>● Check battery in Remote control.</li> </ul>	<ul style="list-style-type: none"> <li>● Change batteries.</li> </ul>

# Cleaning and Care

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

■ To clean the TV screen:

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

- To maintain the finish and appearance of the cabinet, polish it from time to time with a quality furniture polish.

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

# Specifications

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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:	120V AC, 60Hz
POWER CONSUMPTION:	95W (average)
AUDIO POWER:	5W + 5W
SPEAKER TYPE:	Two 2-3/8 x 4-3/4 inches (6 x 12 cm) oval
VIDEO/AUDIO TERMINALS:	S-VIDEO INPUT Y-INPUT: 1V (p-p), 75 ohm, negative sync. C-INPUT: 0.286V (p-p) (burst signal), 75 ohm VIDEO 1/VIDEO 2 INPUT VIDEO: 1V (p-p), 75 ohm, negative sync. AUDIO: 150mV(rms) (30% modulation, 47k ohm) VARIABLE AUDIO OUTPUT 0 - 350mV (rms) (30% modulation, 4.7k ohm)
DIMENSIONS:	Width ..... 26-3/4 inches (679mm) Height ..... 23-13/16 inches (603mm) Depth ..... 19-1/2 inches (495mm)
MASS:	88.8 lbs. (40.3 kg)
SUPPLIED ACCESSORIES:	Remote Control with 2 size "AAA" batteries Antenna adapter

Design and specifications are subject to change without notice.

# Limited United States Warranty

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

## Limited One (1) Year Warranty

TACP and THI warrant this product and its parts against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. During this period, TACP and THI will repair a defective product or part, without charge to you. "Authorized TACP/THI service station personnel will come to your home when warranty service is required. Depending on the type of repair required, the service will either be performed in your home or the set will be taken to the authorized TACP/THI service station for repair and returned to your home at no cost to you."

## Limited Two (2) Year Warranty of Picture Tube

TACP and THI further warrant the picture tube in this product against defects in materials or workmanship for a period of two (2) years after the date of original retail purchase. During this period, TACP and THI will replace a defective picture tube without charge 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.

## Owner's Manual and Registration Card

You should read this owner's manual thoroughly before operating this product. You should also insure that your name and address are on file as owner of a TACP/THI product by completing and mailing the enclosed registration 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 card will not affect your rights under this warranty so long as you retain other proof of purchase such as a bill of sale.

## 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.**
- (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, improper installation, improper maintenance or use in violation of instructions furnished by us; or no units which have been altered or modified without authorization of TACP/THI or to damage to products or parts thereof which have had the serial number removed, altered, defaced or rendered illegible.

## Step-By-Step Procedures – 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) Contact one of the TACP/THI Service Centers listed below for warranty service or call the TACP toll free number **800-631-3811** within thirty (30) days after you find a defective product or part to find the nearest TOSHIBA Authorized Service Station or any authorized TOSHIBA dealer.
- (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 authorized TACP/THI service station for repair and returned to your home at no cost to you."
- (3) If you have any question about service, please contact one of the following TACP/THI Service Centers:

IN THE CONTINENTAL UNITED STATES  
Should your unit require service, Call



### NORTHEAST

82 Totowa Road,  
Wayne,  
New Jersey 07470

### MIDWEST

1010 Johnson Drive,  
Buffalo Grove,  
Ill 60089-6900

### WEST

5490 E. Francis St.,  
Ontario,  
California 91761

### SOUTHEAST

6115 Jimmy Carter  
Blvd.,  
Suite C2, Norcross,  
Georgia 30071-4607

### SOUTHWEST

1421 Champion Drive  
Suite 304, Carrollton,  
Texas 75006

### HAWAII

327 Kamakee Street,  
Honolulu,  
Hawaii 96814

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

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

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



## ATTENTION CANADIAN CONSUMERS:

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

## **TOSHIBA AMERICA CONSUMER PRODUCTS, INC.**

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

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

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

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

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

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

## **TOSHIBA HAWAII, INC.**

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