TOSHIBA

Color Television OWNER'S MANUAL

CF27H50/CF32H50/CF36H50

BA IC OPE ATION



©TOSHIBA CORPORATION, 1998

Dear Customer

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

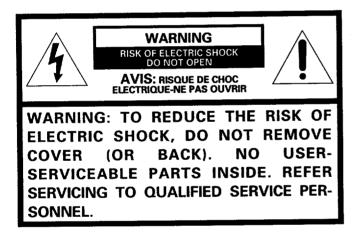
This manual will help you use the many exciting and useful features to make your TV viewing more enjoyable than ever before.

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

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 shown on page 36. Use with other stands may result in instability causing possible injury.

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

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 CHOCS ÉLECTRIQUES, NE PAS UTILISER CETTE FICHE POLARISÉE AVEC UN PROLONGATEUR, UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF ȘI 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 PIP 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 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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Set Up

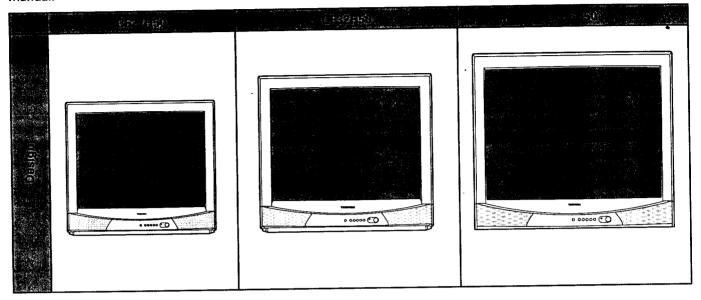
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Introduction

This manual applies to models CF27H50, CF32H50 and CF36H50, and there are slight differences among them. The front and rear panel illustrations in the text are based on CF32H50. Check the model of your TV before using this manual.



Installing your TV

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:

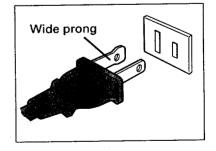
TO AVOID PERSONAL INJURY

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

CAUTION:

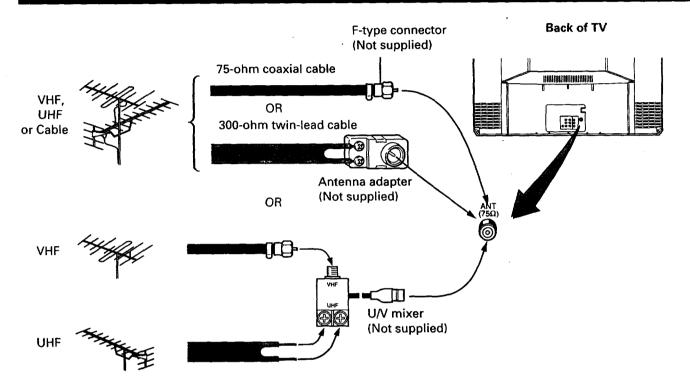
As a safety feature, the plug has one prong wider than the other. It will fit only one way into a standard electrical outlet. If the plug will not fit into the outlet, try turning it around. If the plug will not fit either way, the outlet is probably old and non-

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

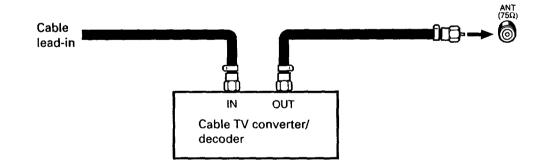


You can use either an indoor or outdoor antenna to receive VHF and/or UHF channels. Channels 2 - 13 are VHF channels, and channels 14 - 69 are UHF channels. We recommend using an outdoor antenna for better picture quality. You can receive Cable TV by connecting a cable supplied by your local cable company.

To connect an antenna or Cable without a decoder box



To connect a Cable with a decoder box

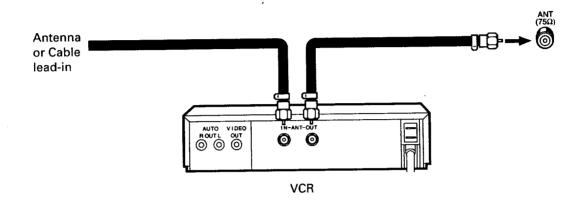


Notes:

- You can select scrambled or unscrambled channels via the converter/decoder box by using the converter's channel keys. Place your TV on channel 3 or 4 to match the converter's output channel.
- The decoding device may or may not be a part of the cable converter.

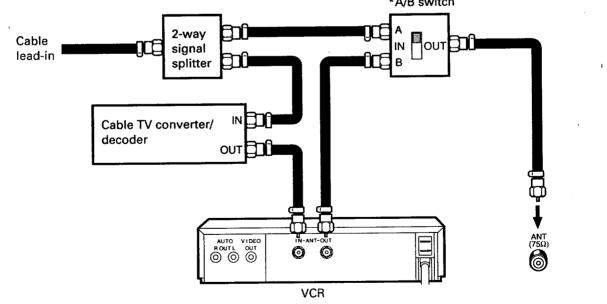
After ANTENNA/CABLE connections are made, you are still required to connect the VCR using VIDEO/AUDIO connecting cables for playback of good quality from the VCR. See page 32.

To connect an Antenna/Cable TV and VCR

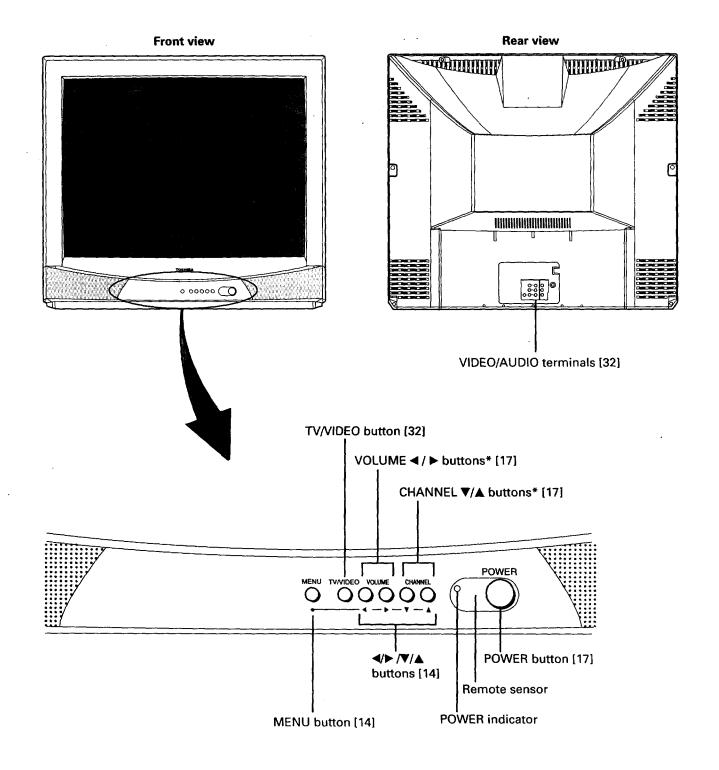


Note: Tape playback may often cause the VCR to interrupt antenna signal to the TV. If you cannot select a certain channel, try pressing the TV/VCR button on the Remote Control.

To connect a Cable TV with a decoder box and VCR

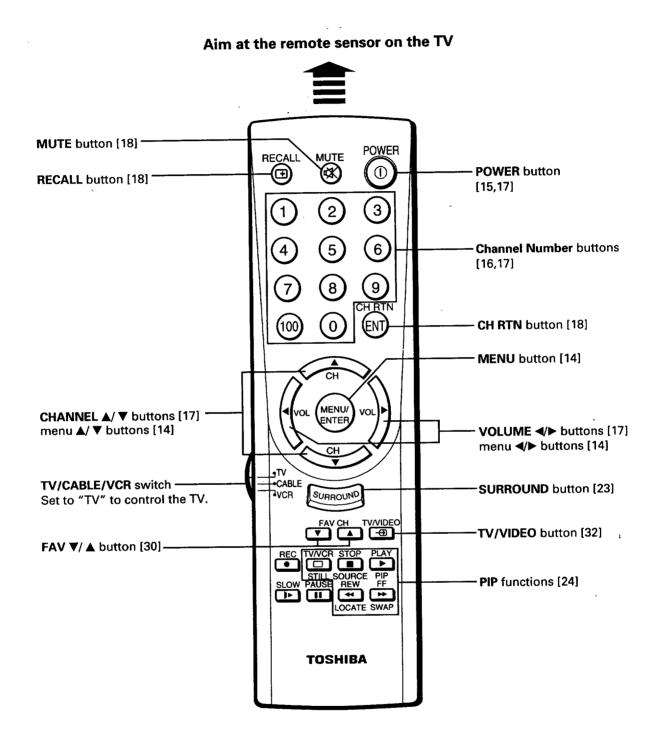


Note: "A" position on the A/B switch (*) allows you to select unscrambled channels using the TV's channel keys. "B" position on the A/B switch allows you to select scrambled channels via the cable TV converter/decoder using the converter's channel keys. Place your TV and VCR on channel 3 or 4 to match the converter's output channel. For specific use of each control, consult the corresponding page numbers in brackets.



*Dual fuction buttons

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.



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 first 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.

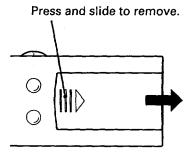
- Before attempting to operate your Remote Control, install the batteries according to the section "To install batteries" shown below.
- For more detailed instructions, see the section "Programming the Remote Control" on page 11.

Notes:

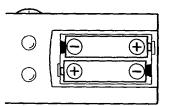
- After installing new batteries, the Remote Control will set itself to the codes for TOSHIBA's TV and VCR. If you are using the Remote Control to operate equipment that uses different codes, it will have to be reprogrammed for those codes.
- This Remote Control may have functions not available on the original remote controller.
- 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 controller 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 controller will have to be used.

To install 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 "AA" 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.

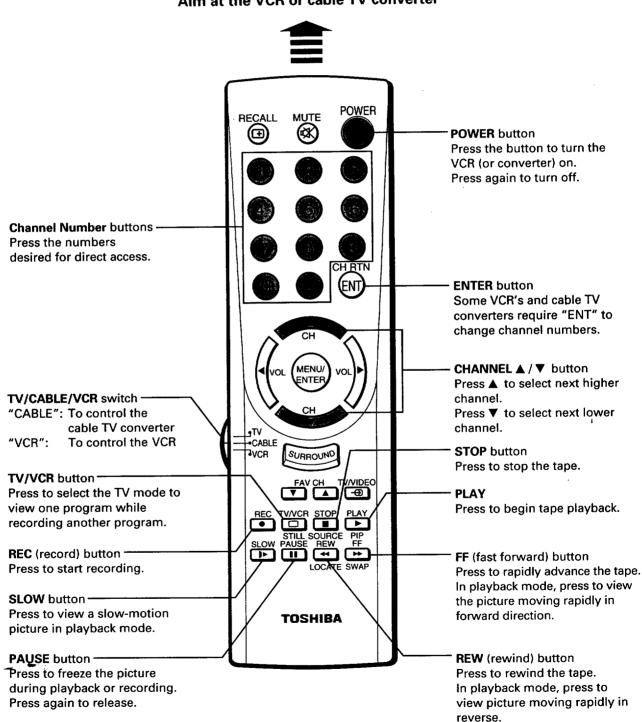
CAUTION:

- 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

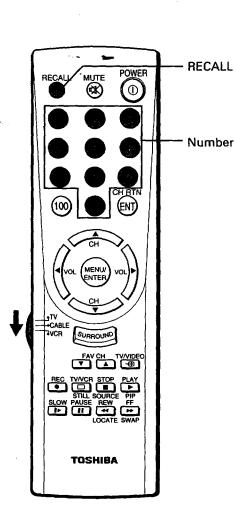
- For optimum performance, aim the Remote Control directly at the TV from a distance of no more than 16 ft (5m) and be sure there is no obstruction between the Remote Control and the TV.
- If your Remote Control does not always adjust the TV as you wish, you probably need to replace the batteries.
-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

- To control a 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 11.
- To control a cable TV converter, this Remote Control must be programmed to recognize the brand of your converter. See page 11. The shaded buttons can be used to control the cable TV converter. Set the TV/CABLE/VCR switch to "CABLE" position whenever you control the cable TV converter.



Aim at the VCR or cable TV converter

- 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 12 and 13 to find the code 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 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 off.
 - -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
- 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.

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VCR code table

BRAND NAME		BRAND NAME	CODE NUMBER	BRAND NAME	CODE NUMBER
					050
Adventura		Lloyd's		Runco	
Aiko		Logik		Samsung	
Aiwa		LXI		Sanky	
Akai	060,068,080,125,	Magnavox	054,058,100,129,	Sansui	
	261		168	Sanyo	065,066,123,259
American High	054	Magnin	259	Scott	062,064,140,203,
Asha		Marantz	054,100		229,230,231
Audiovox		Marta	056	Sears	054,056,061,065,
Beaumark		Matsushita	054		066,073,085,123,
Bell & Howell		MEI	054		124
Brandt		Memorex	019,054,056,058,	Sharp	067,081
Broksonic	140,203,230,314,		065,066,067,123,	Shintom	
	380		259	Shogun	259
Calix	+	MGA	062,080	Singer	091
Canon		MGN Technology			051,052,053,054
Capeheart		Minolta		STS	
Carver			062,080,086,094,		019,054,062,100,
CCE			192,233,261		129
		Motorola		Symphonic	
Citizen		MTC		Tatung	
Colt		Multitech		Teac	
Craig	056,066,091,259			Technics	
Curtis Mathes		NAD			
Cybernex		NEC	057,059,060,069,		019,054,056,071
Daewoo			086	Telefunken	
Daytron		Nikko		TMK	
Dynatech		Noblex		I osniba	062,064,085,229,
Electrohome		Olympus	054		231,385
Electrophonic		Optimus		Totevision	
Emerex	051	Optonica		Unitech	
Emerson	019,021,056,062,	Orion		Vector	
	080,087,140,203,	Panasonic	054,096,181,244,	Vector Research.	
	227,228,230,231,		473	Video Concepts	
	297,313,314,380,	Penney	054,056,057,059,	Videosonic	
	498		061,073,259	Wards	019,054,061,066,
Fisher	066,073,085,123	Pentax	061,084,124		067,081,091,168,
Fuji		Philco	054		231,259
Funai			054,081,100,129	XR-1000	019,054,091
Garrard		Pilot		Yamaha	057
	054,079,084,221	Pioneer		Zenith	052,053,058
GoldStar	037.056.057	Portland			
Gradiente		Protec	091		
Harley Davidson		Pulsar			
Harman/Kardon .		Quarter			
Harwood		Quartz			
Headquarter		Quasar			
HI-Q		Radio Shack			
	060,061,084,124,	Radix			
1 macin		Randex			
lanaan	185,254				
Jensen		nuA	061,079,084,096,		
JVC		Popliatia	124,125,168,221		
Kenwood		Realistic	019,054,056,065,		
KLH			066,067,081,085,		
Kodak	054,056	Ricoh	123,259		
Hove	010	Ricob	/163Z		

Ricoh 053

Lloyd 019

12

Cable TV converter code table

BRAND NAME	CODE NUMBER
ABC	. 020,022,026,027, 030,032,033,036, 066
Antronix	
Archer	
Belcor	
Cable Star	
Cabletenna	
Cableview	
Century	
Citizen	
Colour Voice	
Comtronics	
Contec	
Dae Ryung	
Eastern	
Garrard	
GC Electronics	
Gemini	
General Instrument .	
GoldStar	-
Hamlin	
	292
Hitachi	
Hytex	
Jasco	
Jerrold	
	034,066,295
Macom	
Magnavox	
Memorex	
Movie Time	. 175
NSC	089,175
Oak	
Panasonic	
Paragon	
Philips	
	049,050,172
Pioneer	
Popular Mechanics	419
Pulsar	
RCA	
Recoton	
Regal	
Regency	
Rembrandt	
Runco Samsung	
Scientific Atlanta	
Signal	
Signature	
SL Marx	050
Sprucer	
	VTV

Standard
Components 174
Starcom 022,034,066
Stargate 034,059
Starguest 034
Sylvania
Teleview 059
Texscan 020
Tocom 031,032,078
Toshiba
Tusa 034
Unika
United Artists 026
United Cable 022
Universal
Viewstar 046,079,230
Zenith
Zentek

BRAND NAME

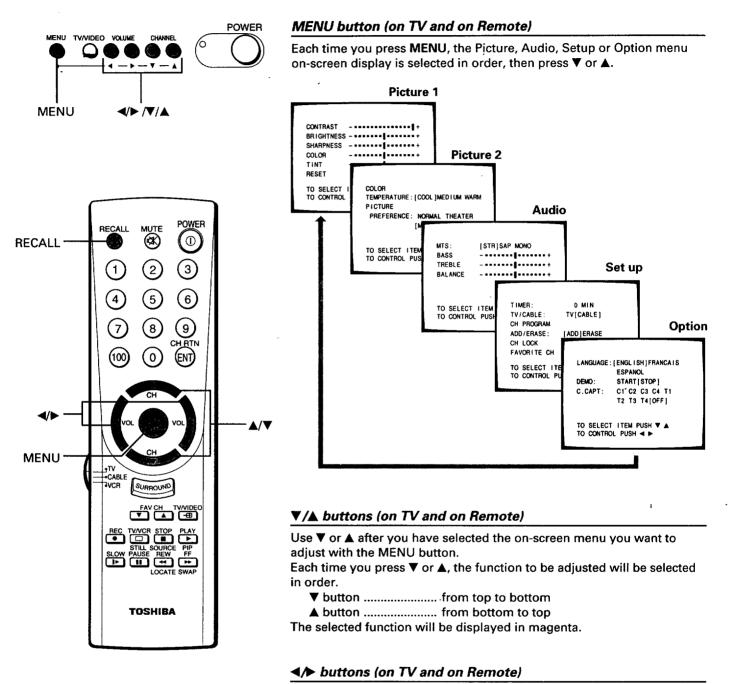
CODE NUMBER



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 adjustments that can be made to the TV appear on the screen.

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Notes:

- The </ >→ buttons will function as the VOLUME </ >→ buttons when no menu display is on the screen.
- The ▼/▲ Duttons will function as the CHANNEL ▼/▲ buttons when no menu display is on the screen.

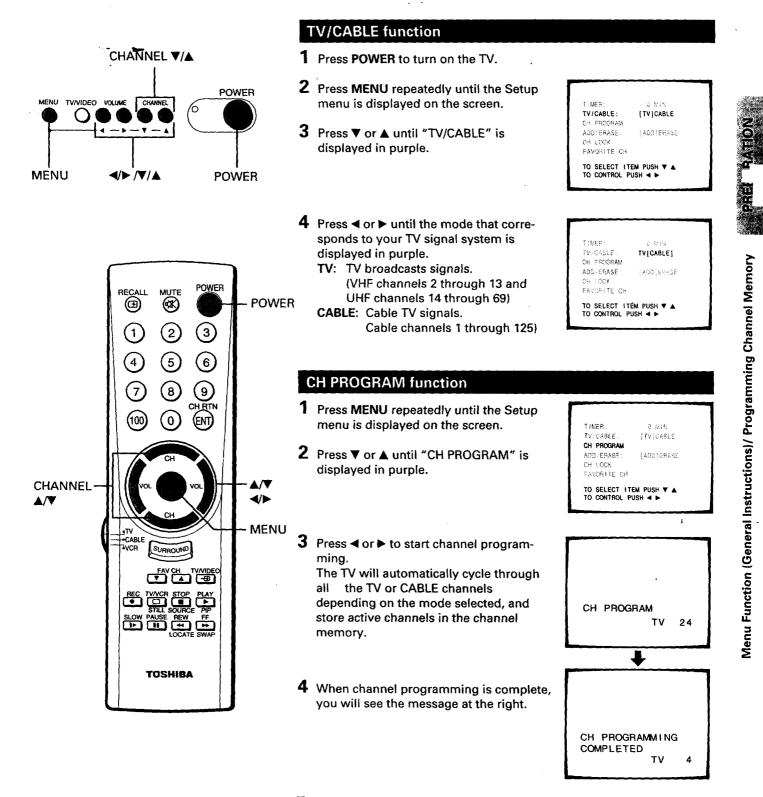
Use \blacktriangleleft or \triangleright to adjust the function you have selected with the ∇/\blacktriangle buttons.

RECALL 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 instantly of all menu displays, press **RECALL**.

Programming Channel Memory

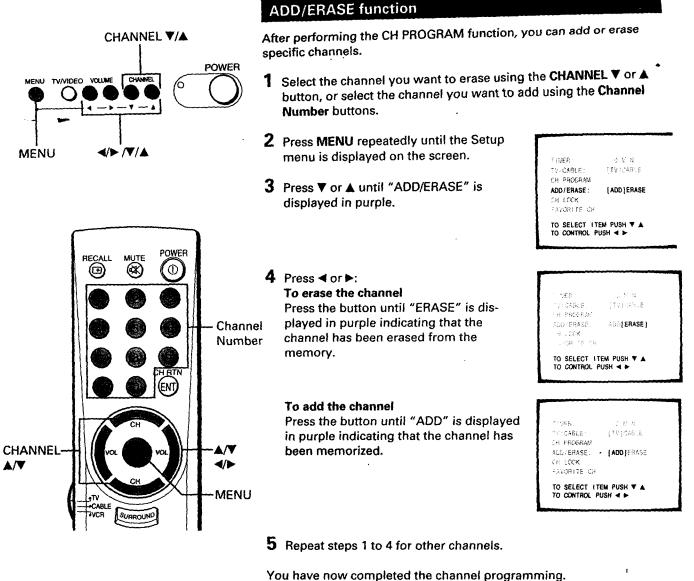
The channel memory is a list of TV channel numbers your TV will stop on when you press the CHANNEL \forall or \blacktriangle button. First, use the TV/CABLE and CH PROGRAM functions to preset all active channels in your area. If necessary, arrange the preset channels with the ADD/ERASE functions so that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



5 Press CHANNEL \checkmark or \blacktriangle to make sure the channel programming has been done properly.

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Programming Channel Memory (Continued)



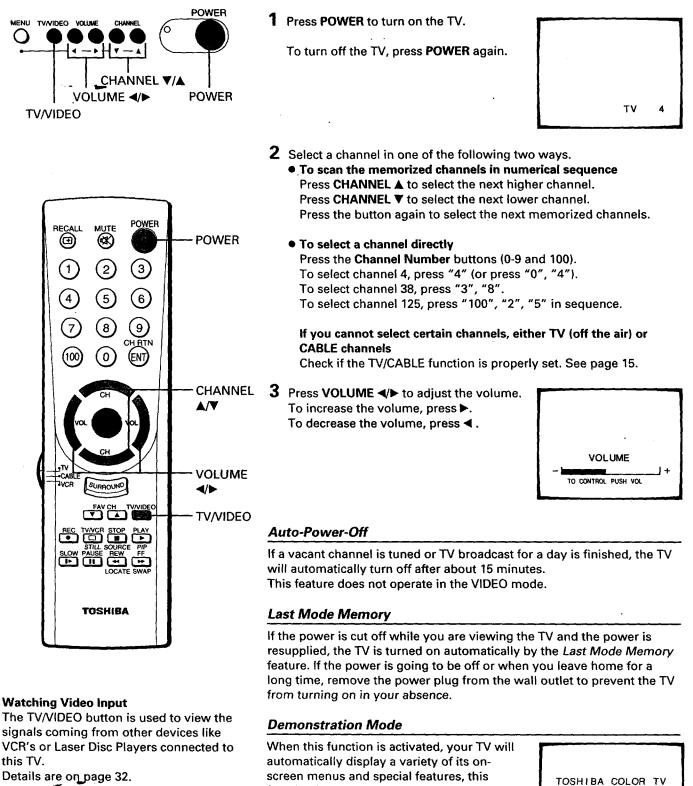
You have now completed the channel programm

CABLE channel reference chart

1000 20-0 5-01 																				ι. Έ	
Correspond- ing CABLE channel	A-8	5(A	-7) (6(A-6)	A	B	C ·		···· υ	v	w	AA	8B		XX	YY	ZZ	ААА	888	65	66
interior V	ġ,	C.	Ð.,	69			93	S and A second s			97		- 29	100	101	107-		- 123		125	
Correspond- ing CABLE channel	67	68	3	69		··92	93	94	A-5	A-4	A-3	A-2	A-1	100	101	102		123	124	125	

The above chart is typical of many cable system channel allocations. If in doubt, consult your cable company.

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



function is provided for demonstration

To start demonstration, select "DEMO

To stop, press RECALL or POWER.

[START]" in the Option menu. (See page 14.)

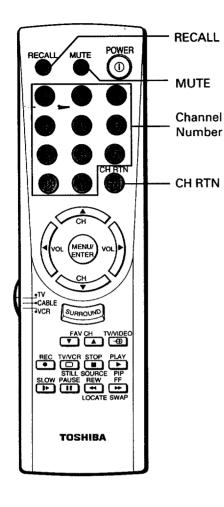
purpose only.

BASIC OPERATIO

Programming Channel Memory

TECHNOLOGY

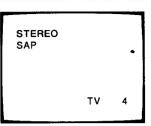
· PERFORMANCE · EXCITEMENT



To display on-screen information

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

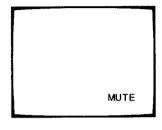
- Channel number
- VIDEO mode selected
- Stereo or SAP audio status



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 "C1" is activated. ("MUTE" on-screen display will disappear.) To deactivate, press the MUTE 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.

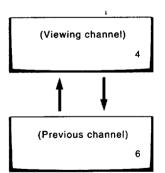
This is useful should you want to view two channels. This allows you to view two programs without entering an actual channel number each time.

To operate this function

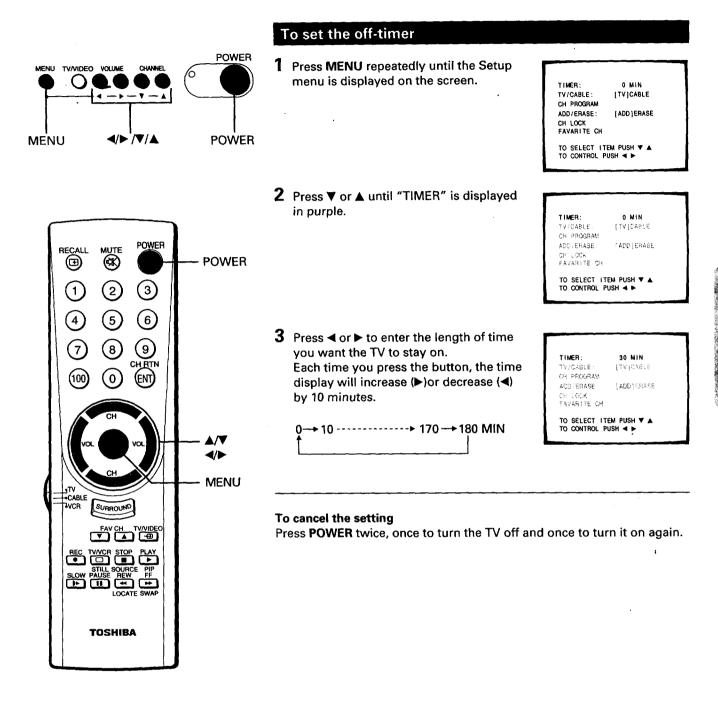
- **1** Select the first channel you want to view.
- 2 Select the other channel with the Channel Number buttons.
- **3** Press CH RTN.

The previous channel will return.

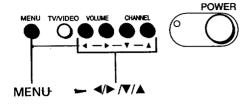
Each time you press **CH RTN**, the TV will switch back and forth between the two channels.



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



Adjusting the Picture



To adjust the picture quality

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

- 1 Press MENU repeatedly until the Picture menu is displayed on the screen.
- **2** Press $\mathbf{\nabla}$ or \mathbf{A} until the item you want to adjúst is displayed in purple.

Example: CONTRAST adjustment mode

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

display

CONTRAST	
BRIGHTNESS	
SHARPNESS	
COLOR	
TINT	
RESET	
TO SELECT	ITEM PUSH V 🔺
TO CONTROL	PUSH ┥ 🕨

BRIGHTNESS ------+ SHARPNESS -----+ COLOR -----+

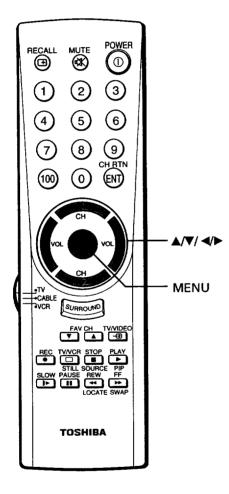
TO SELECT ITEM PUSH ♥▲ TO CONTROL PUSH ◀►

----+

CONTRAST

COLOR

RESET



Solution of		Pressing .
CONTRAST	lower	higher
BRIGHTNESS	darker	lighter
SHARPNESS	softer	sharper
COLOR	paler	deeper
TINT	reddish	greenish

The above five picture functions you have adjusted will be stored in the "MEMORY" of the PICTURE PREFERENCE function. To use this setting, see page 21.

To reset the Picture and Sound adjustments to the factory-preset status (See Note on page 21).

- **1** Press **MENU** repeatedly until the Picture 1 menu is displayed on the screen.
- 2 Press ▼ or ▲ until "RESET" is displayed in purple.

CONTRAST	! +
BRIGHTNESS	·····
SHARPNESS	+
COLOR	+
TINT	+
RESET	
TO SELECT I	tem push ▼ ▲ Push ◀ ►

3 Press **◄** or **►**. The TV will return to the NORMAL mode in the PICTURE PREFERENCE function. (The settings you have adjusted remain in the MEMORY mode.)

RESET

To select the color temperature

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

- **1** Press **MENU** repeatedly until the Picture 2 menu is displayed on the screen.
- 2 Press ▼ or ▲ until "COLOR TEMPERA-TURE" is displayed in purple.

COLOR	
TEMPERATURE	E: [COOL]MEDIUM WARN
PICTURE	
PREFERENCI	E: ACHANAL THEATER
	SEMORY
TO SELECT	item push 🛡 🔺
TO CONTROL	

COOL MEDIUM (WARM)

PREFERENCE NORMAL THEATER THENDRY]

TO SELECT ITEM PUSH V A

PICTURE

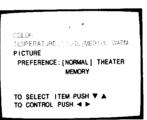
3 Press ◀ or ► until the mode you want is displayed in purple.

the whole	
COOL :	Bluish
MEDIUM	Neutral
WARM	Reddish

		-	
To select	the picture	preference	function

You can select a desired picture tone from three picture preset modes (NORMAL, THEATER, MEMORY) instantly.

1 Select "PICTURE PREFERENCE" following the steps 1 and 2 above.



COLOR TEMPERATURE.; COOL]MED(UP WARM PICTURE PREFERENCE. NORMAL THEATER [MEMORY]

2 Press ◀ or ► until the mode you want is displayed in purple.

	TO SELECT ITEM PUSH ▼ TO CONTROL PUSH ◀ ►	•
	icon thy second	
The picture quality pres	set at the factory	

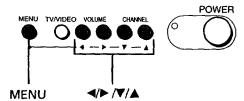
NORMAL	The picture quality preset at the factory
THEATER	Movie-like picture setting
MEMORY	The picture quality you set (First follow page 20.)

Note:

The RESET function adjusts the following picture and audio functions.

CONTRAST	Max.
BRIGHTNESS	Center
• COLOR	Center
• TINT	Center
SHARPNESS	Center
• COLOR TEMPERATURE	
• PICTURE PREFERENCE	NORMAL
• BASS	
TREBLE	
BALANCE	

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



To adjust the sound quality

- **1** Press **MENU** repeatedly until the Audio menu is displayed on the screen.
- 2 Press ▼ or ▲ until the item you want to adjust is displayed in purple.

TO SELECT ITEM PUSH ♥▲ TO CONTROL PUSH ◀►

POWER MUTE RECALL ▣ (0)2 3 $\left(\mathbf{1}\right)$ 5 6 [4] 8 7 9 IBTN \bigcirc (100) (ENT) A/V/ </ >- MENU ۶TV +CABLE SLOW P TOSHIBA

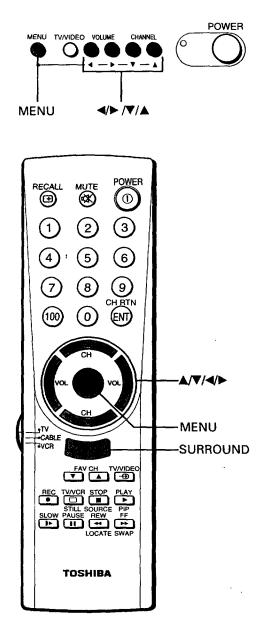
3 Press \triangleleft or \triangleright to adjust the level.

Example: BASS adjustment mode display

MTS:	STRISAP MONO
BASS	
TRESLE	
BALANCE	
	TITEM PUSH ▼▲ DL PUSH ◀ ►

BASS	weaker	stronger
TREBLE	weaker	stronger
BALANCE	decreases the right channel	decreases the left channel

Note: The RESET function resets these audio adjustments to the factorypreset status. (See page 20.)



Notes:

• When the TV receives a MTS broadcast, the word "STEREO" or "SAP" is displayed on the screen whenever the TV is turned on, a channel is selected, or the RECALL button is pressed.



• The MTS function does not operate in the VIDEO mode.

To select Stereo/SAP broadcast

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.

- 1 Press MENU repeatedly until the Audio menu is displayed on the screen.
- Press ▼ or ▲ until "MTS" is displayed in purple.
 The usable selections will be displayed in yellow.
- 3 Press ◀ or ► to select "STR" or "SAP". Normally this function can be left in "STR" mode. Your TV will then automatically reproduce either stereo or monaural sound, whichever is broadcast.

NTS:	STR SAPIM	ONO }
BASS		******
TREBLE		
BALANCE		
SPEAKERS:	ION IOFF	

TO SELECT ITEM PUSH VA

局15:	[STR]SAP	MONO
BASS	~	
TREBLE		
BALANCE		
SPEAKERS:	(ON) OFF	

TO SELECT ITEM PUSH V A TO CONTROL PUSH 4 >

If the stereo sound is noisy

Be sure you have selected "STR" 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.

To activate surround sound effect

The Surround function expands the audio listening field wider and deeper than you would believe possible from a TV's speakers. This function processes stereo signals from a TV broadcast or VIDEO input.

- 1 Select the STEREO mode as described above.
- 2 Press SURROUND until "SURROUND ON" is displayed in purple.

The surround function has now been activated.

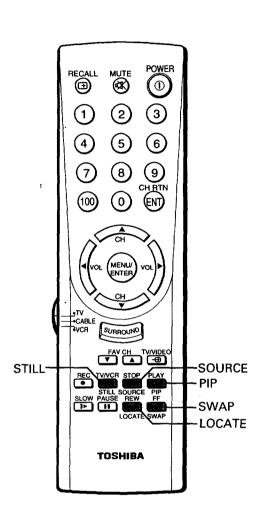


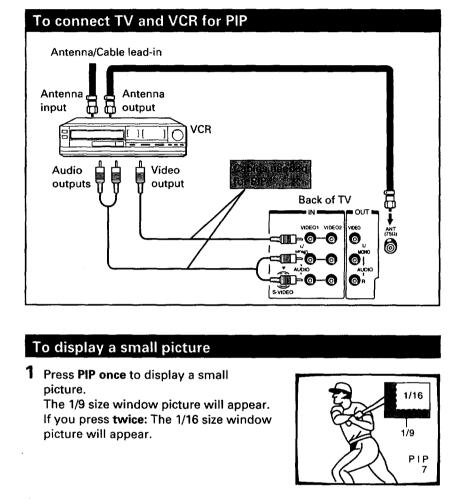
To deactivate the surround effect

Select "SURROUND OFF" in step 2 above.

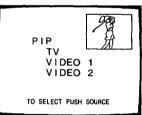
Note: Normally you can leave the "STR" mode turned on and the surround function activated. The TV will automatically produce either surround stereo or monaural, whatever is broadcast.

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**.





2 Press SOURCE to select "VIDEO" input source for the small picture. The selected source will be displayed in purple.



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

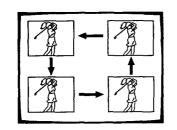
To turn off the small picture, press PIP

- Twice, if you watch the 1/9 size window picture.
- Once, if you watch the 1/16 size window picture.

To use advanced functions

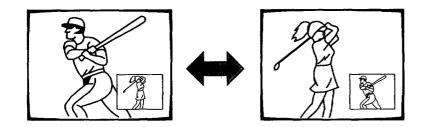
To change the position of the small picture

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



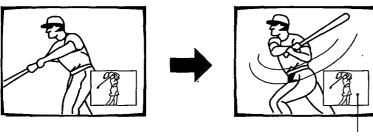
To switch the main and small picture

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

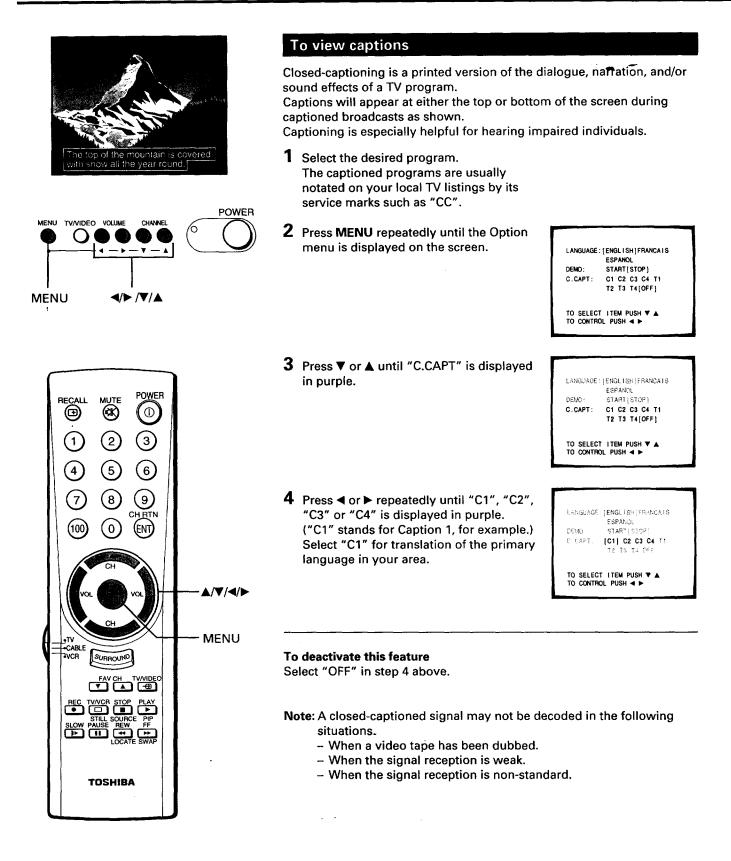


To freeze the small picture

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.



Still picture



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.

1 Select the desired program.

.

- 2 Press MENU repeatedly until the Option menu is displayed on the screen.
- 3 Press ▼ or ▲ until "C.CAPT" is displayed in purple.
- 4 Press deltor ▶ repeatedly until "T1", "T2", "T3" or "T4" is displayed in purple. ("T1" stands for Text 1, for example)

TO SELECT ITEM PUSH VA CHIPPANCA IS AHOUAGE TE ET PANOL STAR (STOP) DEMO-C.CAPT: C1 C2 C3 C4 T1 T2 T3 T4[OFF]

LANGUAGE: [ENGLISH]FRANCAIS ESPANOL START[STOP] C1 C2 C3 C4 T1

T2 T3 T4[OFF]

DEMO C.CAPT:

TO SELECT ITEM PUSH V A TO CONTROL PUSH V F

LANSUAGE ULISH FRANCAIS 110 LCAPT. T2 T3 T4 OF TO SELECT ITEM PUSH ▼ ▲ TO CONTROL PUSH ◀ ►

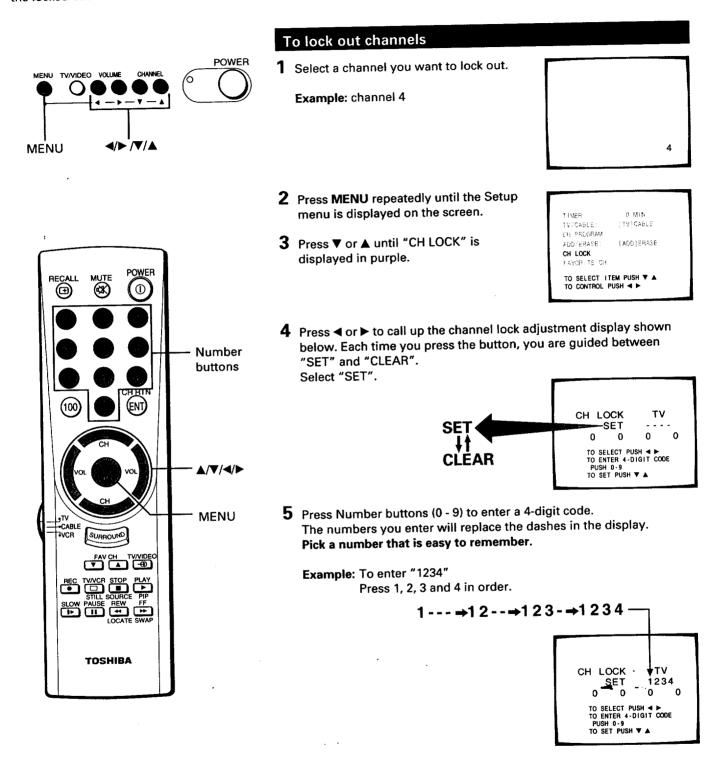
To deactivate this feature

Select "OFF" in step 4 above.

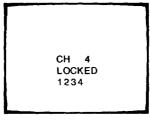
Note: If you select a closed-captioned channel and the Text mode, the text screen always appears. However, text characters are not displayed when no signal is aired.



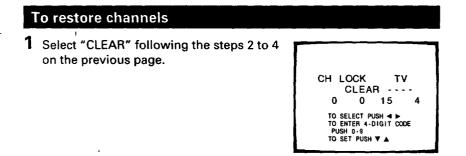
With this function you can lock out specific channels (for example a channel that you do not want your children to watch) by entering your own 4-digit code. The TV will not be able to tune them for the next 24 hours, unless you cancel the locked out channels. There are 4 memory spaces for the TV mode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



6 Press ∇ or \blacktriangle to lock out the channel. The display at the right will appear on the screen for about 4 seconds.



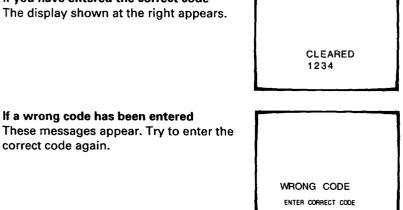
- 7 Repeat steps 1 to 6 for other channels.
 - Note: If a different code number is used whenever you lock out a channel, the last one has priority over the preceding ones.
- 8 Select another channel before turning off the TV.



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

3 Press **▼** or **▲**.

If you have entered the correct code The display shown at the right appears.



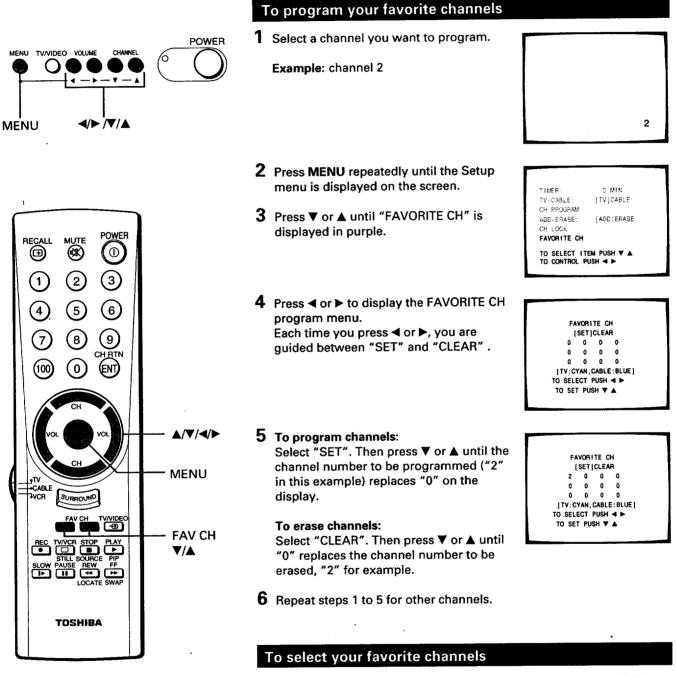
If you want to know the channels you have locked out

Çall up the channel lock adjustment mode using the Setup menu.

Programming Your Favorite Channels

The Favorite Channel Programming feature allows you to program up to 12 of your favorite channels. Once programmed, you can use the FAV \forall/ \blacktriangle buttons on the Remote Control to scan through only your favorite channels, skipping other channels you do not normally view.

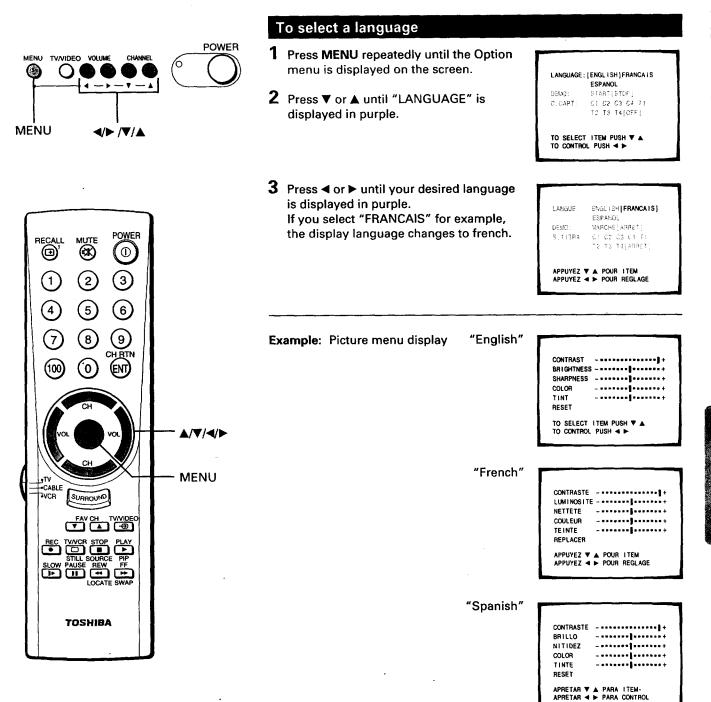
You can use the CHANNEL ▲/▼ buttons to scan through all the channels you programmed in TV's memory.



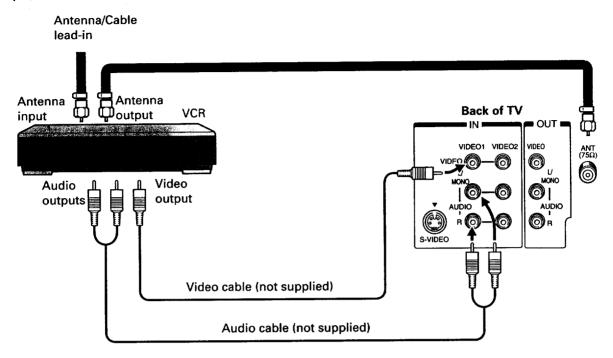
To select your favorite channels you have programmed, use the **FAV** V/A buttons on the Remote Control instead of using the CHANNEL A/V buttons.

Note: The FAV V/▲ buttons cannot function if you have not programmed your favorite channels.

You can choose from three different languages (ENGLISH, FRENCH and SPANISH) for the on-screen displays (adjustment menus, and messages).



Connect VIDEO 1 or VIDEO 2 IN jacks on the rear of the TV to the video/audio output jacks of an installed VCR, Laser Disc player, video camera etc. for playback of video material.

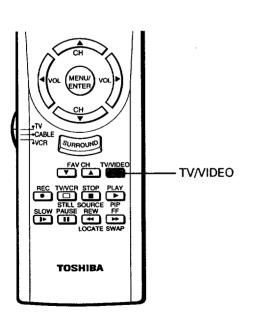


To select the video input source

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

- **1** Turn the TV and VCR ON.
- Press TV/VIDEO to select "VIDEO 1". 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 purple.





3 Operate your VCR normally.

Notes:

POWER

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

MENU

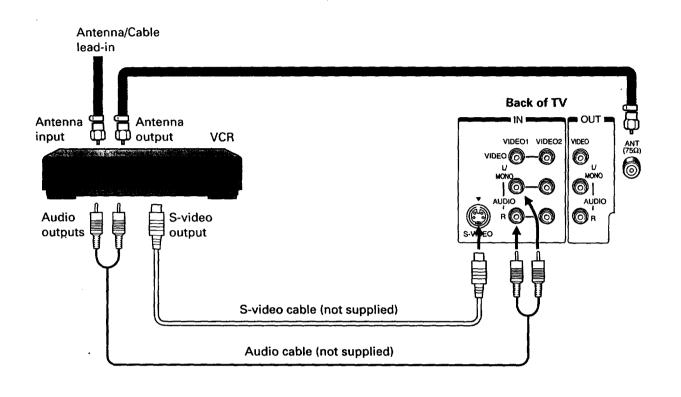
TV/VIDEO

TV/VIDEO

VOLU

Connecting a VCR with an S-Video Jack

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



To select the video input source

- 1 Turn the TV and VCR ON.
- **2** Press the **TV/VIDEO** button to select "VIDEO 1".



3 Operate your VCR normally.

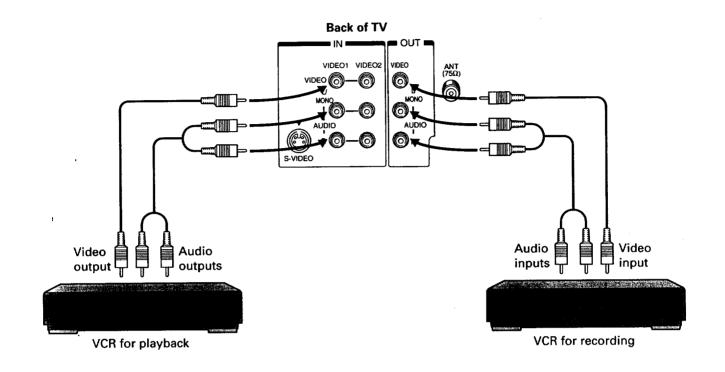
Notes:

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



To dub or edit your own video tapes between one VCR and another, connect the VCR that will play to the input jacks (VIDEO 1 or VIDEO 2) on the TV. Then connect the output jacks on the back of the TV to the input jacks on the recording VCR.

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



To monitor dubbing/editing

- **1** Turn the TV and both VCR's on.
- 2 Press the **TV/VIDEO** button to select "VIDEO 1" (or "VIDEO 2" depending on which input jacks are used for connecting the VCR for playback).



- **3** Set the VCR for recording to record mode and the VCR for playback to playback mode.
- 4 You can view the video tape from the VCR for playback on the TV screen while dubbing it with the VCR for recording.

CAUTION:

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

Notes:

• The input switch of the VCR is normally in the TV position.

Change the input switch of the recording VCR to the external input position such as LINE or CAMERA when using the video/audio inputs of the VCR as above. Some VCR's automatically switch when the cables are plugged into the video/audio inputs.

- The PIP picture cannot be output from the VIDEO OUT jack.
- The "fixed level" audio signal through the AUDIO jacks of OUT jacks is also ideal for connecting an audio cassette recorder (or amplifier) to record sound from the TV. This constant audio signal is not affected by pressing the VOLUME ▲/♥ buttons.

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.
 - 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.

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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	120V AC, 60Hz
POWER CONSUMPTION	CF27H50: 92W (average) CF32H50: 101W (average) CF36H50: 104W (average)
AUDIO POWER	5W + 5W
SPEAKER TYPE	2-3/8 x 4-3/4 inches (60 x 120 mm)
VIDEO/AUDIO TERMINALS	S-VIDEO INPUT (VIDEO1) Y-INPUT: 1V (p-p), 75 ohm, negative sync. C-INPUT: 0.286V (p-p) (burst signal), 75 ohm VIDEO/AUDIO INPUT (VIDEO1/VIDEO2) VIDEO: 1V(p-p), 75 ohm, negative sync. AUDIO: 150mV(rms) (30% modulation equivalent, 47k ohm) VIDEO/AUDIO OUTPUT VIDEO: 1V(p-p), 75 ohm, negative sync. AUDIO: 150mV(rms) (30% modulation equivalent, 4.7k ohm)
DIMENSIONS	CF27H50: Width 26-inches (660mm) Height 24-inches (610mm) Depth 22-3/8 inches (568mm) CF32H50: Width 30- 13/16 inches (782mm) Height 27-15/16 inches (694mm) Depth 23-1/8 inches (587mm) CF36H50: Width 34-9/16 inches (878mm) Height 30-1/2 inches (775mm) Depth 25-3/4 inches (654mm)
MASS	CF27H50: 73 lbs (33kg) CF32H50: 125 lbs (57kg) CF36H50: 160.9 lbs (73.0kg)
SUPPLIED ACCESSORIES	Remote Control with 2 size "AA" batteries
OPTIONAL TV STAND	CF27H50: CF32H50: ST3215 CF36H50: ST3615
Design and specifications are subject	to change without notice.

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Design and specifications are subject to change without notice.

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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.

Problem	Checks and Adjustments	Page
TV will not turn on	• Make sure the power cord is plugged in, then press POWER button.	17
	Check battery in the Remote. (Maybe batteries are "dead".)	9
No picture, no sound	Check antenna/cable connections.	
No sound, picture OK	 Maybe sound is muted. Try pressing VOLUME button. 	17
	Try another channel. (Maybe station trouble.)	
Poor sound, picture OK	 Try another channel. (Maybe station trouble or local interference from appliance.) 	
Poor picture, sound OK	Check antenna/cable connections.	
<i>,</i>	• Try another channel. (Maybe station trouble or local interference.)	
	Adjust Picture menu.	20
Poor reception of broadcast channels	Try another channel.	
	Check antenna connections.	
3	If using VCR, check TV/VCR button.	10
No UHF, VHF OK	Make sure TV/CABLE function is in "TV" mode.	15
Black box appears on the screen	Captioning may be turned on.	26
Unable to select a certain channel	 That channel may be locked out with CH LOCK function, or 	28
	erased with the ADD/ERASE function.	16
Multiple images (ghosts)	 Try another channel. (Maybe station trouble.) 	
	Use a highly directional outdoor antenna.	
Poor color or no color	 Try another channel. (Maybe station trouble or local interference.) 	
	 Adjust TINT and/or COLOR in the Picture menu. 	20
	• 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.	
No stereo or SAP sound from a	The picture should improve.	
known MTS broadcast	Check if MTS function is properly set.	23
The Remote Control does not operate	Check if Device buttons are properly set.	8, 10
	• Maybe something is between the Remote and the remote sensor.	
	 Maybe batteries are "dead". Try replacing batteries with new ones. Insert them with the correct polarity. 	9

Specifications/ Before Calling Service Personnel

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.

Rental Units

The warranty for rental units begins with the first rental ot 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.
- All warranty servicing of this product must be made by an (2)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.
- Warranties extend only to defects in materials or workmanship (5) as limited above and do not extend to any product or parts which have been lost or discarded by you or to damage to products or parts caused by misuse, accident, damage caused by Acts of God, such as lightning or fluctuations in electric power, improper installation, improper maintenance or use in violation of instructions furnished by us; or to units which have had the serial number removed, altered, defaced or rendered illegible.

How to Obtain Warranty Service

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

- (1) Call the TACP toll free number 1-800-631-3811 after you find a defective product or part to find the nearest TOSHIBA Authorized Service Station.
- (2) Please present your bill of sale or other proof to the Authorized Service Station.

"Authorized TACP/THI service station personnel will come to your home when warranty service is required. Depending on the type of repair required, the service will either be performed in your home or the set will be taken to the TACP/THI Authorized service station for repair and returned to your home at no cost to you."



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

No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of these warranties in-any manner whatsoever. The time within which action must be commenced to enforce any obligation of TACP or THI arising under this warranty or under any 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. 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.

Limited United States Warranty

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TOSHIBA AMERICA CONSUMER PRODUCTS, INC.

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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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