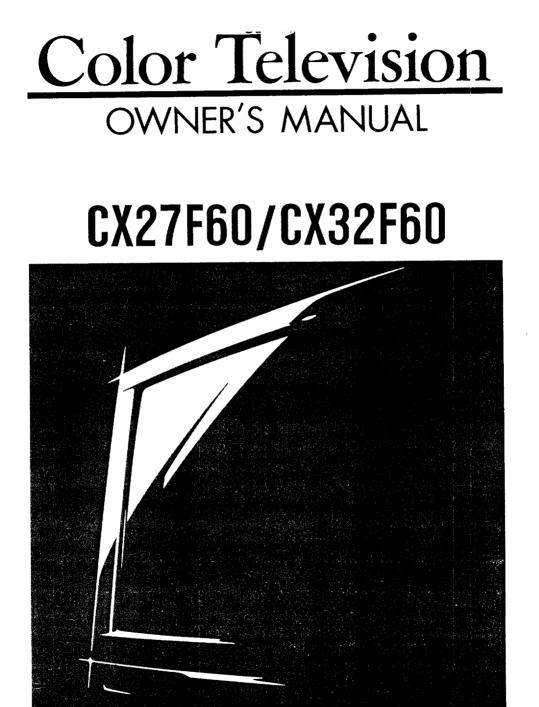
# TOSHIBA



REFERENCE EQ

**BASIC OPERATION** 

©TOSHIBA CORPORATION, 1996

#### **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.

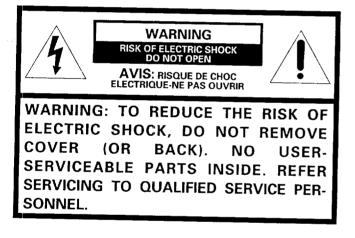
Model Number

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 shown on page 44. 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 CHOCS ÉLECTRIQUES, NE PAS UTILISER CETTE FICHE POLARISÉE AVEC UN PROLONGATEUR, UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ÊTRE INSÉRÉS À FOND SANS EN LAISSER AUCUNE PARTIE À DÉCOUVERT.

#### NOTE TO CATV SYSTEM INSTALLER IN THE USA:

This reminder is provided to call the CATV system installer's attention to Article 82C-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

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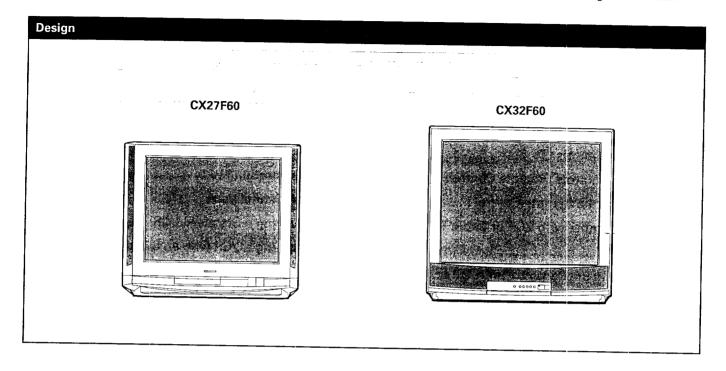
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## Introduction

This manual applies to models CX27F60 and CX32F60, and there are slight differences among them. The front and rear panel illustrations are based on CX32F60. 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 oroper 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 :

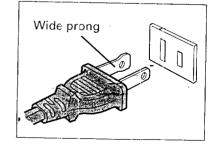
TO AVOID PERSONAL INJURY

- 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.



## Antenna/Cable TV General Information

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 the cable supplied by your local cable company. Cable TV delivers both VHF and UHF channels and other channels not available to your antenna.

Back of TV

(Illustration: CX32F60)

Antenna connection panel

#### Types of antenna cables

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

1 A 75 ohm coaxial cable is generally a round cable with an F-type connector that can easily be attached to a terminal without tools.

F-type connector (Not supplied)



**2** A 300 ohm cable is a flat "twin-lead" cable that can be attached to a terminal using an antenna adapter supplied as an accessory.



#### Antenna connection panel

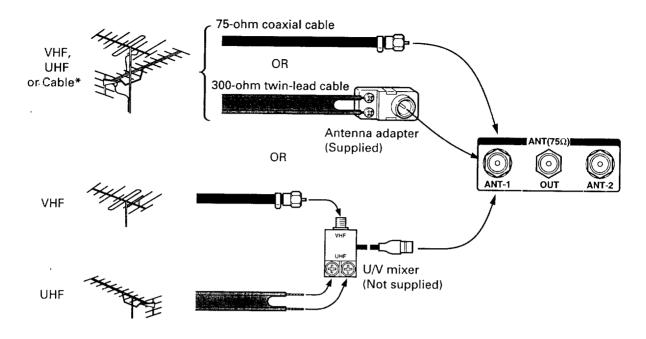
There are two separate 75 ohm F-type connector terminals and a converter output terminal as shown below.



The ANT-1 and ANT-2 terminals are for connecting a VHF/UHF antenna or a cable TV system. The signal, which is input through the ANT-1 terminal, is also output from the OUT terminal whenever the antenna input is set to the ANT 2 mode. You can switch between the ANT 1 and ANT 2 modes by pressing the ANT 1/2 button on the Remote Control or the ANT/VIDEO button on the TV. See page 18.



#### Connecting an antenna or Cable without a decoder box



#### Notes:

- \* Generally, the incoming cable for a Cable TV system can be connected directly to the TV antenna terminal just like a home antenna connection. You will be able to receive unscrambled cable channels.
- You can connect another source such as a home antenna or video game to the ANT-2 terminal.

#### Connecting a Cable with a decoder box

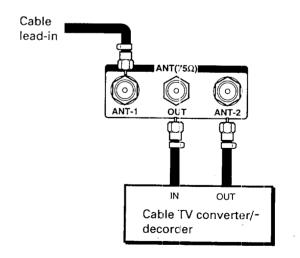
Some cable companies offer "premium pay channels". Since the signals of these premium pay channels are scrambled, a cable TV converter/decoder is generally provided to the subscriber by the cable TV company. This decoder box is necessary for normal viewing the scrambled channels. For more specific instructions on installing cable TV, consult your cable TV company.

You can choose between viewing unscrambled channels and scrambled channels by pressing the ANT 1/2 button or the ANT/VIDEO button. See page 18.

Unscrambled channels will come through the ANT-1 terminal when the ANT 1 mode is selected.

.-The scrambled channels from the decoder box will come through the ANT-2 terminal when the ANT 2 mode is selected. Select channel 3 or 4 on your TV to match your converter's output channel and select channels using the converter's channel keys.

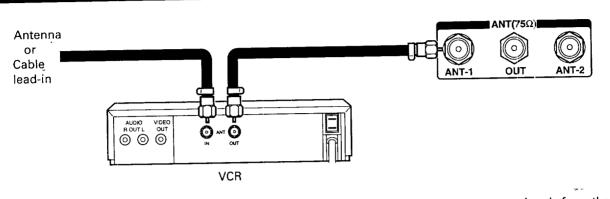
Note: The descrambler device may or may not be a part of the cable converter.



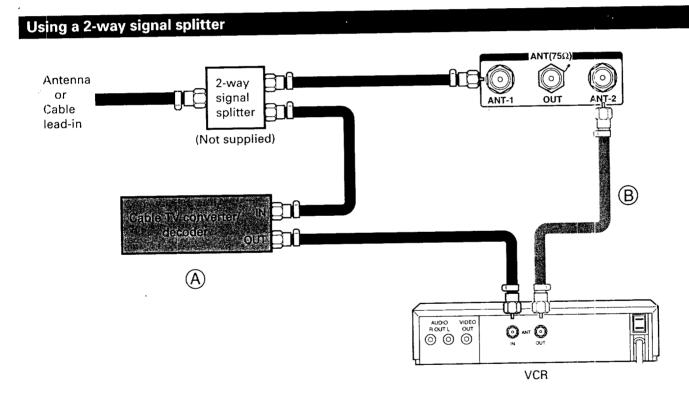
## Antenna/Cable TV and VCR Connections

After antenna cable connections are made, you are still required to connect the VCR using a video/audio connecting cables for (stereo) playback of good quality from the VCR. See page 40.

## Antenna/Cable TV connection via VCR (simplified method)



Note: On many VCR's, playing tapes causes the VCR's TV/VCR switching to disconnect the antenna signals from the TV. If you cannot select a certain channel, try pressing the TV/VCR button on the Remote Control.



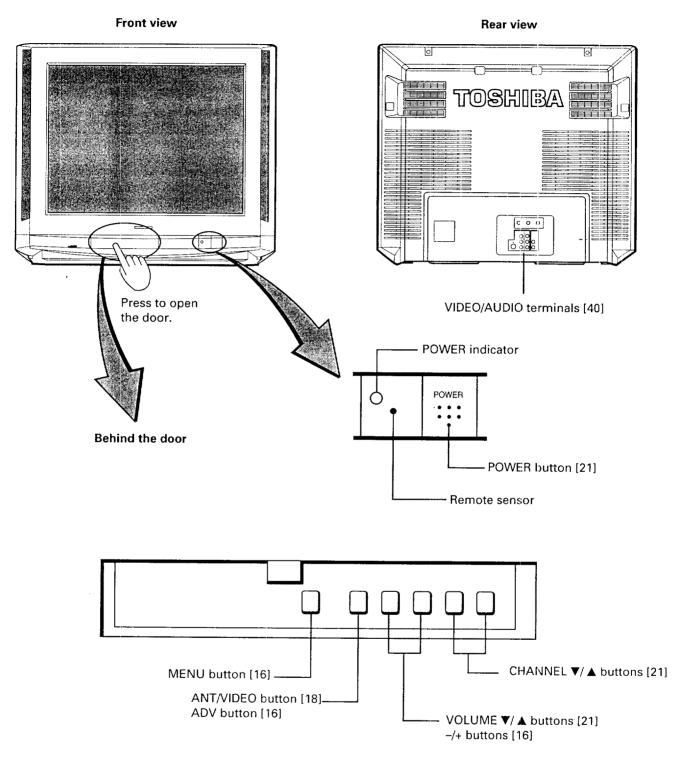
#### Notes:

The unscrambled channels will come through the ANT-1 terminal whenever the antenna input is set to the ANT 1 mode.

The scrambled channels from the decoder box will come through the VCR and the ANT-2 terminal whenever the antenna input is set to the ANT 2 mode. Select channel 3 or 4 on your TV and VCR to match your converter's output channel. See page 18.

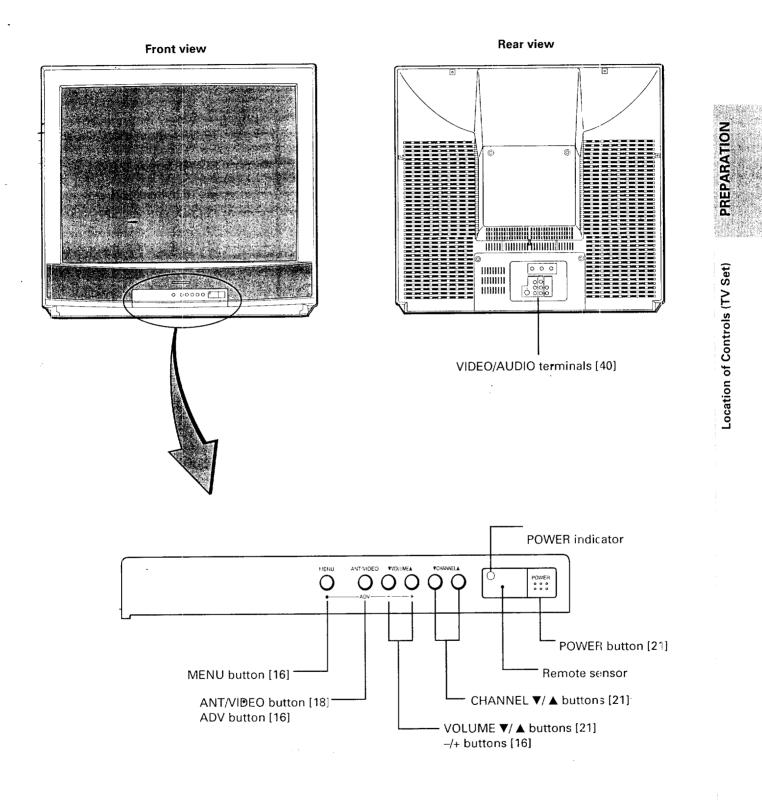
• The cable <sup>®</sup> connection is necessary only when the cable TV converter/decorder <sup>®</sup> is connected.

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



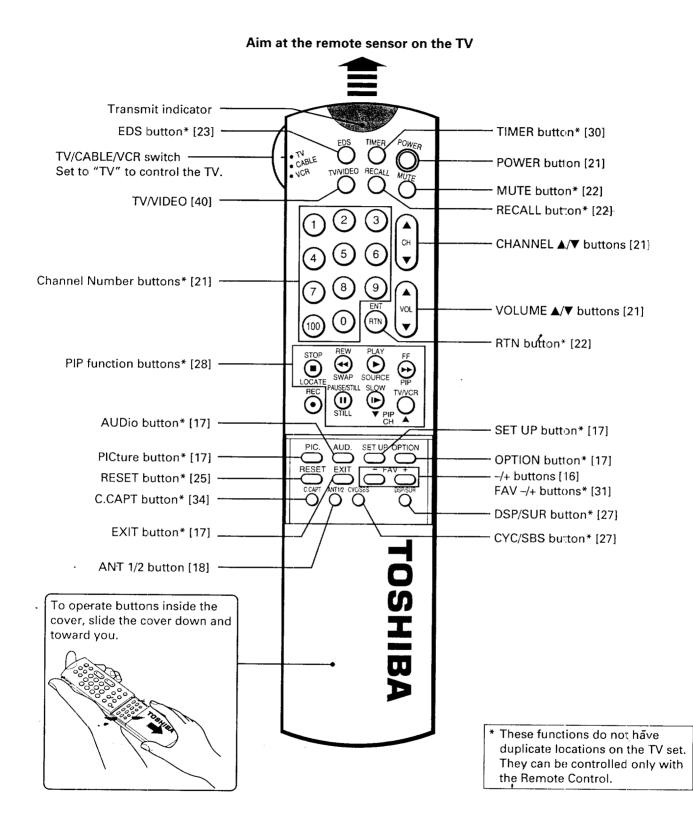
8

...



9

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.



10

#### 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 Control has already been preprogrammed for you.

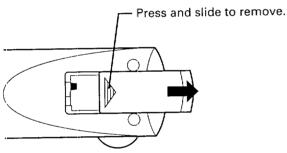
- Before attempting to operate your Remote Control, install the batteries according to the section "Installing and replacing batteries" shown below.
- For more detailed instructions, see the section "Programming the Remote Control" on page 13.

#### Notes:

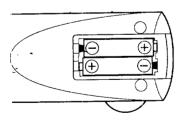
- After installing new batteries, the Remote Control will set itself to the codes for TOSHIBA's TV and VCR. If you are using the Remote Control to operate equipment that uses different codes, it will have to be reprogrammed for those codes.
- This Remote Control may have functions not available on the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

#### 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 "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.

#### CAUTIONS:

- 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 16 ft (5m) and be sure there is no obstruction between the Remote Control and the TV.
- If your Remote Control does not always control 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.

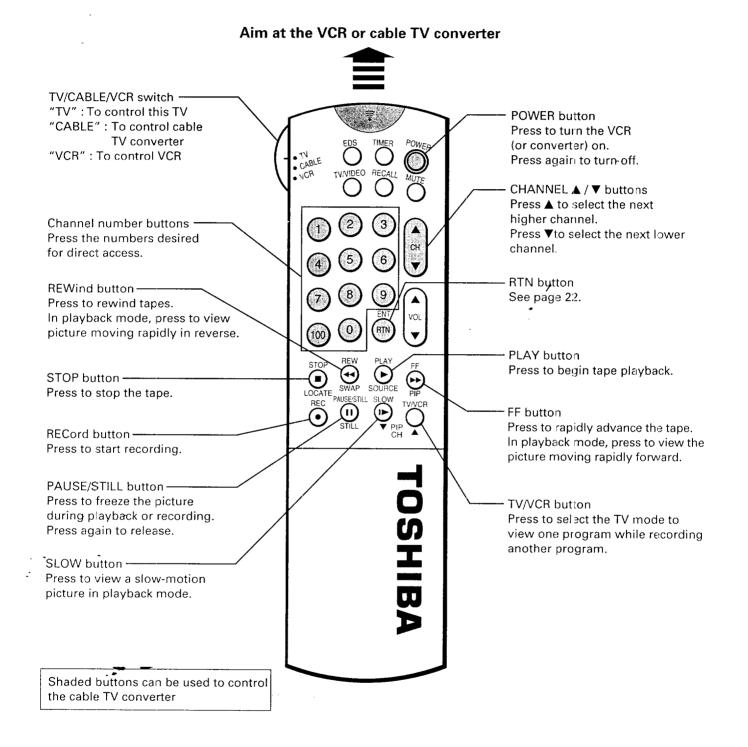
## Using the Remote with VCR or Cable TV Converter

• To control a TOSHIBA VCR, first set the TV/CABLE/VCR switch to VCR. The buttons shown below will then control the VCR. The rest of the buttons operate the TV as usual.

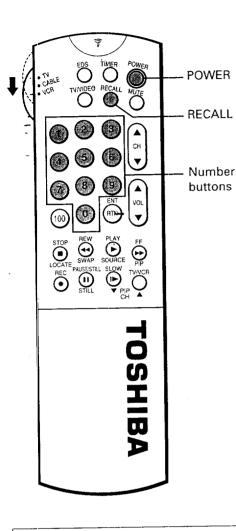
If you have another brand of VCR, you can probably program the Remote Control to control it. Details are on page 13.

• To control a cable TV converter, this Remote Control must be programmed to recognize the brand of your converter. See page 13.

Set the TV/CABLE/VCR switch to CABLE whenever you want to control the cable TV converter.



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



#### Controlling other brands of VCR's and cable TV converters

Refer to the "VCR code table" (or "Cable TV converter code table") 1 on pages 14 and 15 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). The transmit indicator lights up for 1 second when the programming is completed.

When an operation error has occurred, the indicator blinks. Press RECALL again to reset.

- Point the Remote Control at the VCR (or at the converter) and press 4 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 any of 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	
Aiwa	. 019
Akai	
	261
Akiba	
Alba	
American High	
Amstrad	
Anam	
Anitech	
ASA	
Asha	
Asuka	
Audiovox	
Baird	
Basic Line	
Beaumark	
Bell & Howell	
Blaupunkt	
Brandt	
Broksonic	
Bush	
Calix	
Canon	
Capehart	
Carver	
CCE	
CGE	
Cimline	
Citizen	
Clatronic	
Colt	
Condor	
Craig	
Crown	
Curtis Mathes	
Cybernex	
Daewoo	
Dansai	091
Daytron	039
De Graff	
Decca	
Dual	
Dumont	019,100,123
Dynatech	019
Elcatech	091
Electrohome	
Electronic	
Electrophonic	
Emerex	
Emerson	
	080,140,203,227
	228,230,231,313
500	314,380
ESC	297

Ferguson 06	0
Fidelity 01	
Finlandia 10	
Finlux 01	
Firstline 05	6.062.064.091
22	
Fisher 06	
12	3
Frontech 03	9
Fuji 05	
Funai 01	
Garrard 01	9
GE 05	4.079.084.221
GEC 10	
General 07	
	-
Go Video 25	
Goldstar 05	6,057
Goodmans 01	
	1,297
Gradiente 01	
Graetz 06	0,123
Granada 06	5 100 123
Grandin 01	0,056,001
Grundig 10	
Harley Davidson 01	9
Harman/Kardon 05	7.
Harwood	
Hcm 09	
Headquarter 06	
HI-Q 06	6
Hinari 09	1,227
Hitachi 01	
Hypson 09	
Imperial 01	
Interfunk 10	
ITT 06	0,065,123,125
ITV 05	
JCL 054	
Jensen 06	
JVC 02	
Kaisui 09	1
Kendo 12!	5.228
Kenwood 05	
KLH 09	
Kodak 054	
Korpel 09	1
Leyco 09	1
Lloyd 019	
Loewe 056	
Loewe opta 100	
Logik 09'	1,259
Luxor 062	2,065,123,125
LXI 056	
M-Electronic 019	
Magnavox 019	
129	9,168
Magnin 259	Ð
Manesth 064	
	.,

Marantz	054 057 091 100
Marta	
Masushita	. 054
Matsui	227 228 314
MEI	
Memorex	. 019,054,056,058
	065,066,067,123
	259
Memphis	
Metz	. 181
MGA	
	. 002,000
MGN Technology .	
Minolta	
Mitsubishi	062 080 086 100
	233,261
Motorola	. 054,067
MTC	. 019.259
Multitech	
Murphy	
NEC	. 057.059.060.069
	086
Neeleensee	
Neckermann	
Nesco	. 091
Nikko	056
Noblex	
Nokia	. 060,065,123,125
	259
Nordmende	
Oceanic	
Olympus	. 054
Optimus	
-	
Optonica	
Orion	140,227,228,314
Osaki	
Otto Versand	
Palladium	056,091
Panasonic	054.096.115.181
	244
Desper	
Penney	
	061,073,259
Pentax	061.034
Perdio	
	019
Philco	019 054
Philco	019 054
Philco Philips	019 054 054,081,100,129
Philco Philips Phonola	019 054 054,031,100,129 100
Philco Philips Phonola Pilot	019 054 054,081,100,129 100 056
Philco Philips Phonola	019 054 054,081,100,129 100 056
Philco Philips Phonola Pilot Pioneer	019 054 054,031,100,129 100 056 086,100
Philco Philips Phonola Pilot Pioneer Portland	019 054 054,031,100,129 100 056 086,100 039
Philco Philips Phonola Pilot Pioneer Portland Profitronic	019 054 054,031,100,129 100 056 086,100 039 259
Philco Philips Phonola Pilot Pioneer Portland Profitronic Proline	019 054 054,031,100,129 100 056 086,100 039 259 019
Philco Philips Phonola Pilot Pioneer Portland Profitronic	019 054 054,031,100,129 100 056 086,100 039 259 019
Philco Philips Phonola Pilot Pioneer Portland Profitronic Proline Protec	019 054 054,031,100,129 100 056 086,100 039 259 019 091
Philco Philips Phonola Pilot Pioneer Portland Profitronic Proline Protec Pulsar	019 054 054,031,100,129 100 056 086,100 039 259 019 091 058
Philco Philips Phonola Pilot Pioneer Portland Profitronic Proline Protec Pulsar Pye	019 054 054,031,100,129 100 056 086,100 039 259 019 091 058 100
Philco Philips Phonola Pilot Pioneer Portland Profitronic Proline Protec Pulsar	019 054 054,031,100,129 100 056 086,100 039 259 019 091 058 100
Philco Philips Phonola Pilot Pioneer Portland Profitronic Proline Protec Pulsar Pye Quarter	019 054 054,031,100,129 100 056 086,100 039 259 019 091 058 100 065
Philco Philips Phonola Pilot Pioneer Portland Profitronic Proline Protec Pulsar Pye Quarter Quartz	019 054 054,031,100,129 100 056 086,100 039 259 019 091 058 100 065 065
Philco Philips Phonola Pilot Pioneer Portland Profitronic Proline Protec Pulsar Pye Quarter Quasar	019 054 054,031,100,129 100 056 086,100 039 259 019 091 058 100 065 065 065 054,096,115
Philco Philips Phonola Pilot Pioneer Portland Profitronic Proline Protec Pulsar Quarter Quartz Quasar Quelle	019 054 054,031,100,129 100 056 086,100 039 259 019 091 058 100 065 065 065 054,096,115 100
Philco Philips Phonola Pilot Pioneer Portland Profitronic Proline Protec Pulsar Pye Quarter Quasar	019 054 054,031,100,129 100 056 086,100 039 259 019 091 058 100 065 065 065 054,096,115 100

Radiola	
Radix	
Randex	056
RCA	054,061,079,084
	096,115,125,168
	221
RCA-Unified	079
Reafistic	019.054.056.065
riedlighe	066,067,081,085
-	123,259
Rex	,
Ricoh Roadstar	000
Roadstar	050,031,203,207
Runco	
Saba	
Saisho	, 227,228
Salora	. 062,065,125
Şamsung	. 064,259
Sanky	
Sansui	. 060,086
Sanyo	
SBR	. 100
Schaub Lorenz	
Schneider	. 019,091,100,129
Scott	. 062,064,140,203
	229,230,231
Sears	. 054,056,061,065
	066,073,085,123
SEG	. 259
SEI	
Seleco	
Sentra	039
Sharp	067,081
Shintom	091
Shogun	259
Siemens	056,123
Silva	
Singer	
Sinudyne	100
Sontec	056
Sony	051,052,053,054
STS	061
Sunstar	019
Sylvania	019,054,062,100
·	129
Symphonic	019
Tandy	019,123
Tashiko	019
Tatung	0 <u>1</u> 9,060,100
Teac	019,060
Technics	054,181
Tekriika	
Teleavia	060
Telefunken	
Tenosal	
Tensai	019
Thomson	
Thorn	060,123

TMK Toshiba	227,259 060,062,064,085 229,231,385
Totevision Triumph Unitech Universum	056,259 227 259
Vector Vector Research Victor Video Concepts Videosonic Wards	057,059 027,060,086 059,064,080 259 019,054,061,066 067,081,091,168 231,259
XR-1000 Yamaha Yamishi Yokan Yoko Zenith	. 057,060 . 091 . 091 . 039,259

#### Cable TV converter code table

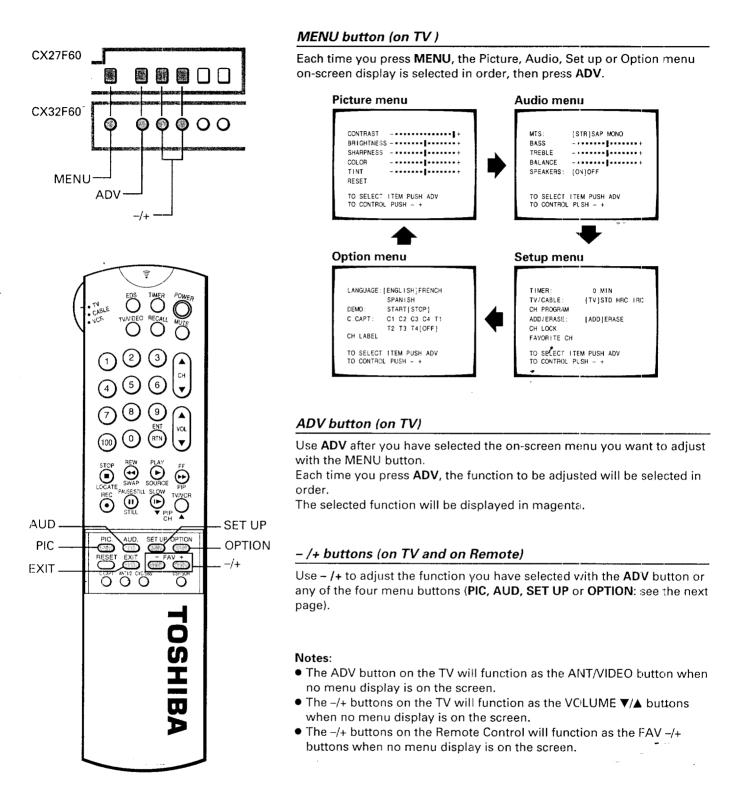
BRAND NAME	CODE NUMBER
ABC	
	033,036
Archer	. 058,172
Century	. 172
Citizen	
Colour Voice	
Comtronics	
Contec	
Eastern	
Garrard	
Gemini	034,089
General	
Instrument	
Hamlin	
Hitachi	
Hytex	026
Jasco	
Jerrold	
	034,043,045,295
Macom	
Magnavox	046
Memorex	
Movie Time	175
NSC	
Oak	026,038
Panasonic	
Paragon	019
Philips	044,046,047,048
	049,050,079,172
Pioneer	163

Popular Mechanics 419 Pulsar 019 PVP Stereo Visual Matrix 022
RCA ()40
Regal
Regency ()21 Rembrandt ()30,089
Runco
Samsung 059,163
Scientific Atlanta 025,027,036,296
346
Signal 034,059
Signature 030
SL Marx
Sprucer
Standard
Components 174
Starcom
Stargate 034,059 Starquest 034
STS 175
Teleview 059
Tocom 031,032,078
Toshiba 019
Tusa 034
Unika 172
United Artists 026
United Cable 022
Universal 058,096,172,210
Viewstar 046,079
Zenith 019



## **Menu Function (General Instructions)**

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



#### PIC (Picture) button (on Remote)

- Press **PIC** repeatedly until one of the Picture menu functions you want to adjust is selected.
- The selected function will be displayed in magenta, then press -/+ to adjust the setting.

Details for each function begin on page 24.

#### AUD (Audio) button (on Remote)

Press AUD repeatedly until one of the Audio menu functions you want to adjust is selected.

The selected function will be displayed in magenta, then press -/+ to adjust the setting.

Details for each function begin on page 25.

#### SET UP button (on Remote)

Press **SET UP** repeatedly until one of the Set up menu functions you want to adjust is selected.

The selected function will be displayed in magenta, then press -/+ to adjust the setting.

Details for each function begin on page 19.

#### **OPTION button (on Remote)**

Press **OPTION** repeatedly until one of the Option menu functions you want to adjust is selected.

The selected function will be displayed in magenta, then press -/+ to adjust the setting.

Details for each function begin on page 34.

#### 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, and all other menu displays also disappear after about 6 seconds. If you want to clear the screen of all on-screen displays instantly, press **EXIT**.

CONTRAST	
BRIGHTNESS	
SHARPNESS	
COLOR	
TINT	 •••••
RESET	
TO SELECT TO CONTROL	PIC

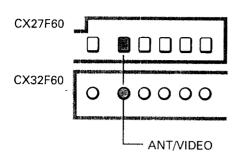
MTS:	[STR]SAP	
BASS		•••••
TREBLE		•••••
BALANCE SPEAKERS:	[ON]OFF	1
TO SELECT TO CONTROL		

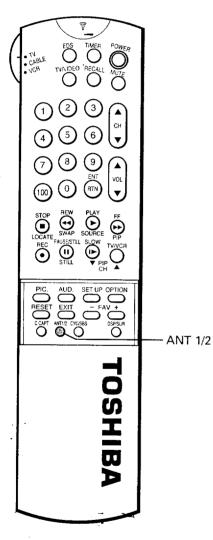
TIMER:	0 MIN
TV/CABLE:	[TV]STD HRC IRC
CH PROGRAM	
ADD/ERASE:	[ ADD ] ERASE
CH LOCK	
FAVORITE CH	
TO SELECT IT	EM PUSH SET UP USH - +



## **Selecting the Antenna Input**

Your TV has two separate antenna inputs (ANT-1 and ANT-2) that allow you to connect two different signal sources, if desired.





#### Using the ANT 1/2 button (on the Remote)

Each time you press the **ANT 1/2** button, the ANT 1 mode and ANT 2 mode will alternate. The selected mode will be displayed in magenta to show which antenna source you are watching. Select the mode that matches the antenna

terminal you want to use.

ANT 1 ANT 2		
ANT 2		
ANT 2		
	ANT 1	
TO SELECT PUSH ANT1/2	ANT 2	
TO OCCLUT FUSH ANTITZ	TO SELECT PUSH ANT1/2	

**Note:** This button does not function in the VIDEO mode.

#### Using the ANT/VIDEO button (on the TV)

Each time you press the **ANT/VIDEO** button, the ANT 1, VIDEO 1, VIDEO 2, VIDEO 3 or ANT 2 mode will be selected in order. The selected mode will be displayed in magenta to show which signal source you are watching.

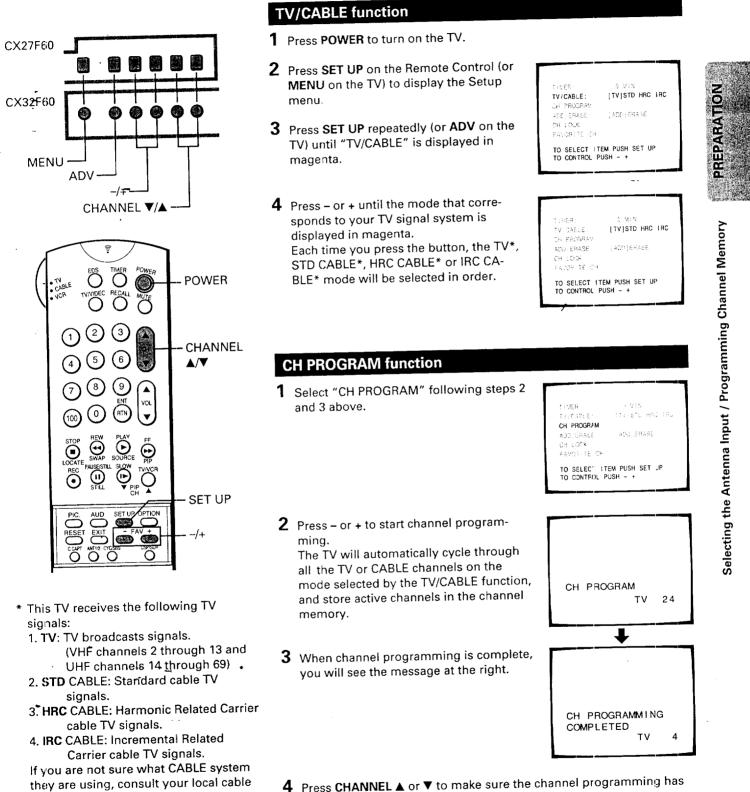
Press the button until "ANT" 1 or "ANT 2" is displayed in magenta to match the antenna terminal you want to use.



Note: This button functions as the ADV button while any of four menu displays (Picture, Audio, Setup or Option) is on the screen.

\_ company.

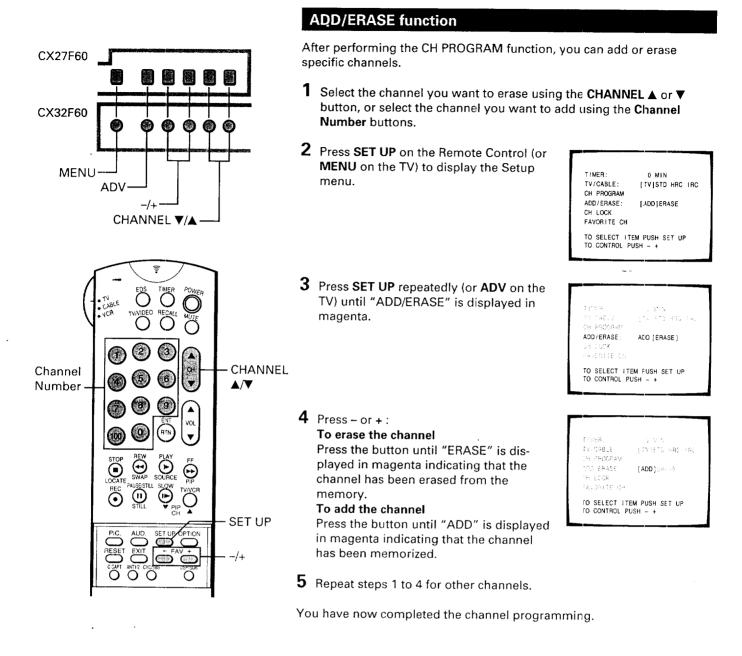
The channel memory is the list of TV channel numbers your TV will stop on when you press the CHANNEL ▲ or ▼ button. First, use the TV/CABLE and CH PROGRAM functions to preset all active channels in your area automatically. If necessary, arrange the preset channels with the ADD/ERASE functions so that you can tune into only desired channels. Note: If you utilize both ANT-1 and ANT-2 terminals, perform programming channels for each input source.



**4** Press **CHANNEL**  $\blacktriangle$  or  $\blacktriangledown$  to make sure the channel programming has been done properly.

19

## **Programming Channel Memory (Continued)**



#### **CABLE** channel reference chart

Number on this TV		5	6	14	15	16~		34	35	36	37	38 <i>~</i>		···· 60	61	62	63	64	65	66
Correspond- ing CABLE channel	A-8	5(A-7)	6(A-6)	A	в	C		· U	V	W	AA	BB-		XX	YY	ZZ	ΑΑΑ	BBB	65	_ <del>6</del> 6
Number on this TV	67.2	- - 68	- 69		·92	93	94	95	96	97	98	99	100	101	102-		123	124	125	
Correspond- ing CABLE channel	67	68	 69		92	93	94	A-5	A-4	A-3	A-2	A-1	100	101	102		- 123	124	125	<u> </u>

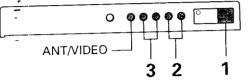
The above chart is typical of many cable system channel allocations. If in doubt, consult your cable company.

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

1



# CX27F60



- Press **POWER** to turn on the TV. The following on-screen information will be displayed for a few seconds.
- Antenna mode (when in the TV mode).
- Channel number or the VIDEO mode selected.
- Channel label (if previously preset).
- Stereo or SAP audio status.

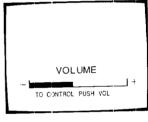
To turn off the TV, press POWER again.

- 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 TX (off the air) or CABLE channels

Check if the TV/CABLE function is properly set. See page 19.

Press VOLUME ▲/▼ to adjust the volume.
 To increase the volume, press ▲.
 To decrease the volume, press ▼.



STEREO

ANT 1

тν

ABCD

4

**BASIC OPERATION** 

Programming Channel Memory Watching TV Programs

SAP

#### Watching Video Input

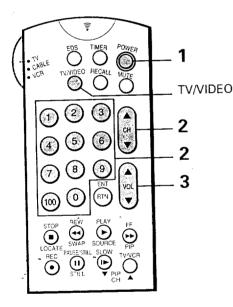
The TV/VIDEO button (or ANT/VIDEO button on the TV) is used to view the signals coming from other devices such as VCR's or Video Disc Players connected to this TV. Details are on page 40.

#### 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

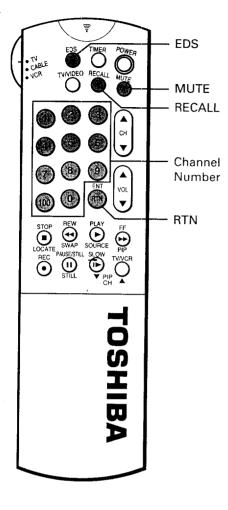
If the power is cut off while you are viewing the TV and the power is resupplied, the TV is turned on automatically by the *Last Mode Memory* feature. If the power is going to be off or when you leave home for a long time, remove the power plug from the wall outlet to prevent the TV from turning on in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



#### Notes:

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

• The ANT/VIDEO button on the TV functions as the ADV button while any of the menu displays (Picture, Audio, Setup or Option) is on the screen.



#### **Displaying on-screen information**

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

- Antenna mode (when in TV mode)
- Channel number or VIDEO mode selected
- Channel label (if previously preset)
- Stereo or SAP audio status
- Closed Caption or Text program status

#### Muting 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. ("MUTE" on the screen display will disappear.) To deactivate, press the MUTE button again. (This feature only functions when the Closed Caption mode is set to "OFF".)



ANT 1

τv

ABCD

13

STEREO

SAP CAPTION

TEXT

#### Changing quickly between two channels

Press 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.

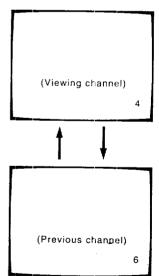
#### To operate this function

1 Select the first channel you want to watch.

- 2 Select the other channel with the **Channel Number** buttons.
- 3 Press RTN.

The previous channel will return.

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



### To display the EDS information

Press **EDS** to display the following EDS (Extended Data Service) information for about 10 seconds.

- Network name ①
- Program name @
- Program type 3
- Time remaing in show ④
- Program length (5)

Some of the above information may not be displayed.

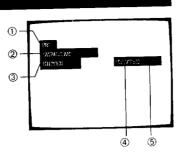
If the TV program you are watching does not include the EDS information

"NO EDS INFORMATION" will be displayed instead for about 10 seconds when you press EDS.

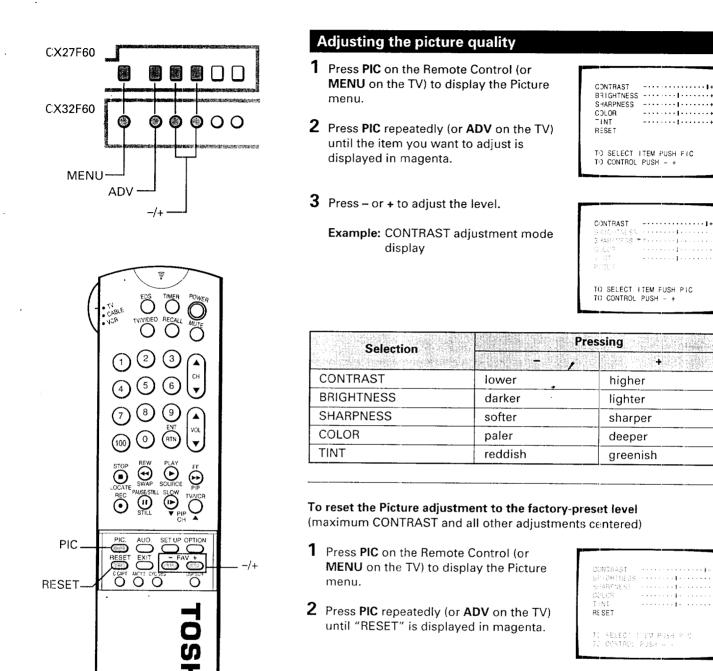
NO EDS INFORMATION



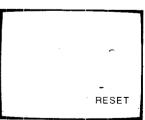
23



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

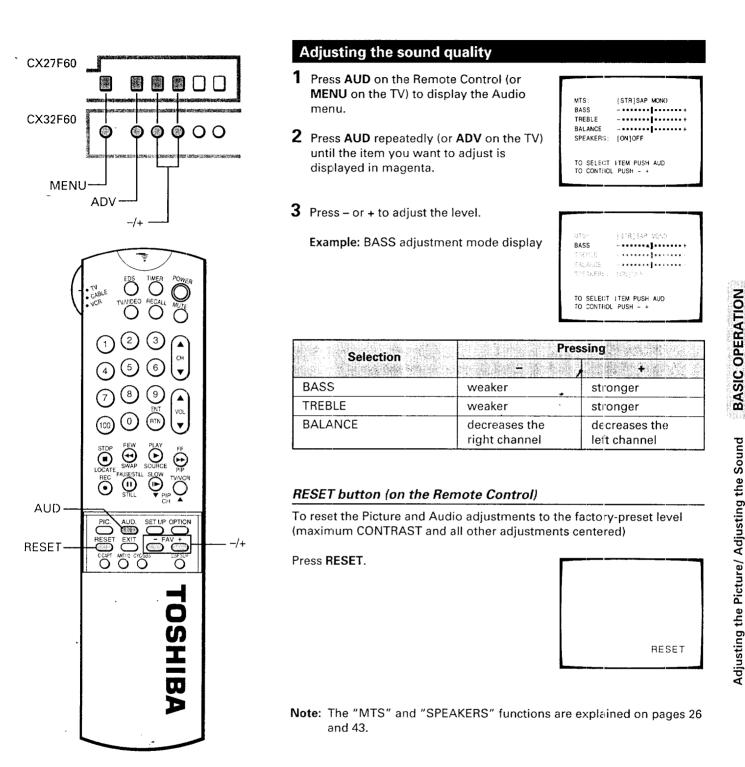


3 Press - or +.



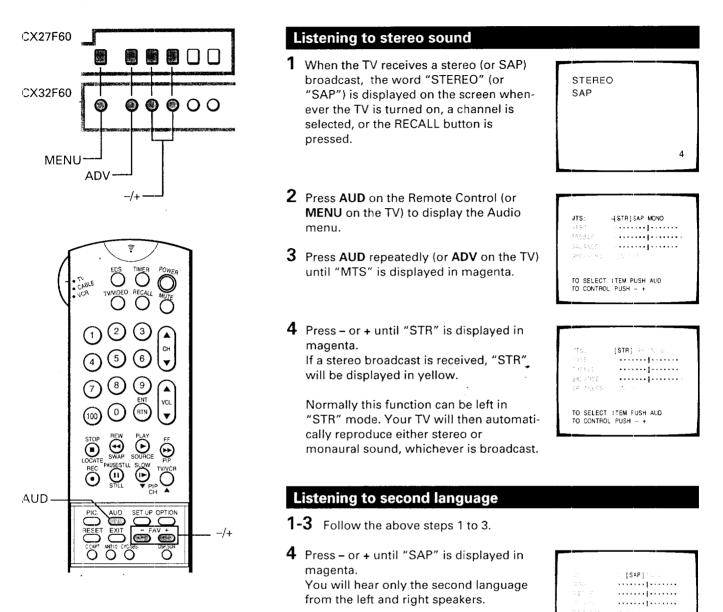
Note: You can also use the RESET button on the Remote Control. (See page 25.)

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



## Selecting Stereo/SAP Broadcasts

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



#### If the stereo sound is noisy

If a broadcast signal is not strong enough, and noise-free steree sound is not available, select the MONAURAL mode. The noise should be reduced.

#### Notes:

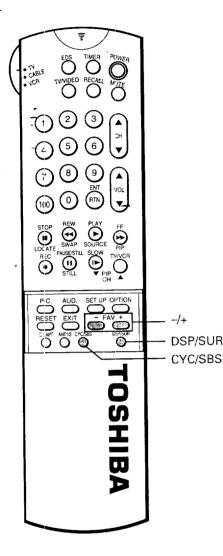
• Be sure you have selected "STR" mode if broadcast is in stereo.

O SELECT ITEM PLSH AUD O CONTROL PUSH - +

• "MTS" in the Audio menu does not function in the VIDEO mode.

## **Enhancing the 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 process stereo signals from a TV broadcast or VIDEO input. The Sub-Bass System allows you to inprove bass-performance (even when the sound volume is low).



#### **Activating the Surround function**

- Select "STR" mode following the steps on the previous page.
- 2 Press DSP/SUR on the Remote Control to call up the Surround ON/OFF mode on the screen display as shown.

Press **DSP/SUR** until "SURROUND ON" is displayed in magenta.

SURROUND ON SURROUND OFF TO SELECT PUSH DSP/SUR

The Surround function has now been activated.

#### To deactivate the Surround effect

Select "SURROUND OFF" in step 2 above.

#### Adjusting the level of the Sub-Bass System (SBS)

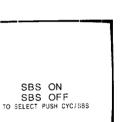
The Sub -Bass System allows you to improve bass performance (even when the sound volumes is low).

**1** Press **CYC/SBS** on the Remote Control to call up the SBS ON/OFF mode display.

Press CYC/SBS until "SBS ON" is displayed in magenta.

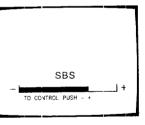
Press -or + while the SBS ON/OFF mode display shown above is on the screen to call up the SBS level adjustment display.

Press + to increase the SBS level. Press - to decrease the SBS level.



**BASIC OPERATION** 

Selecting Stereo/SAP Broadcasts/ Enhancing the Surround Sound Effect



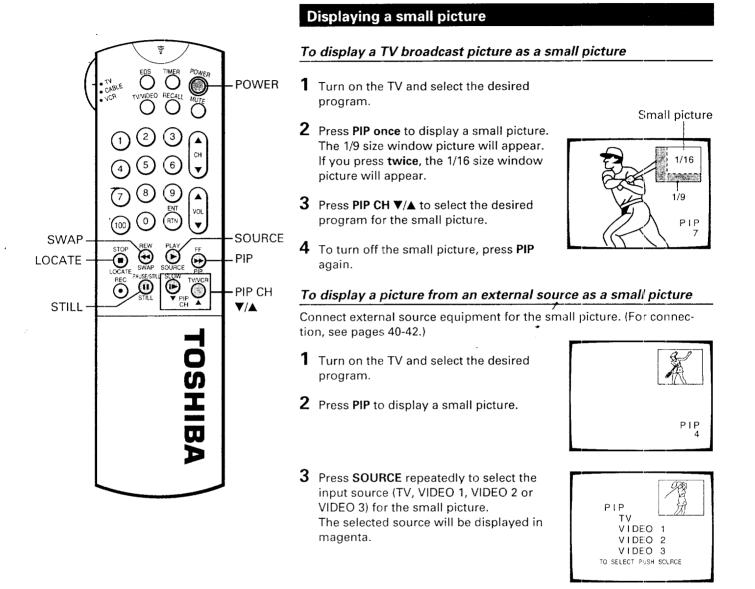
#### Note on the Surround function

Normally you can leave the MTS function set to "STR" and the Surround function set to "ON". The TV will automatically produce either Surround steree or monaural, depending on the broadcast type.

#### Note on the Sub-Bus-System

The Sub-Bass System does not operate through the "VARIABLE AUDIO OUT" jacks. (See page 43.) However, the above on-screen displays will appear when the buttons are pressed. To deactivate the Sub-Bass System Select "SBS OFF" in step 1 above. This TV is capable of displaying two pictures simultaneously. This is called the Picture-in-Picture function. A TV broadcast picture, or a picture from external source such as a VCR, can be displayed as a small picture.

Note: The signal sources input through the ANT-2 terminal cannot be displayed as a small picture.



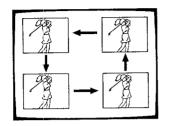
#### To turn off the small picture, press PIP

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

#### Using advanced functions

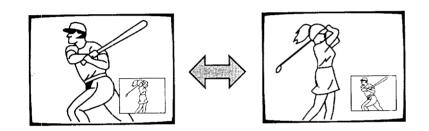
#### To change the position of the small picture

 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

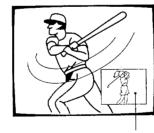
Press **SWAP** when a small picture is displayed. The main and small pictures will switch. To switch them again, press **SWAP** again.



#### To freeze the small picture

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

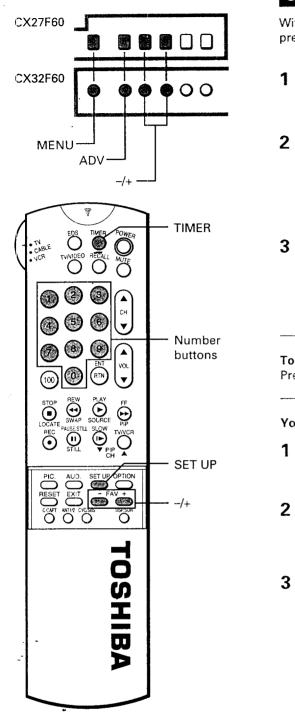




Still picture



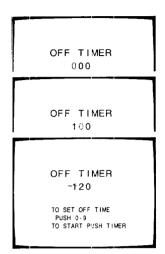
## Setting the Off-Timer (Sleep Timer)



#### Setting the off-timer

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 minutes unit).

- **1** Press **TIMER** on the Remote Control to select the OFF TIMER mode.
- 2 Press two Number buttons to enter the length of time you want the TV to stay on after each number position starts to blink.
  - Example: 120 minutes Press 1, then 2.
- **3** Press **TIMER** to start the timer. The display color will change from magenta to cyan, then the display will go off.

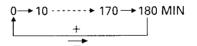


#### To cancel the setting

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

You can also set the off-timer using the on-screen menu function.

- Press SET UP on the Remote Control (or MENU on the TV) to display the Setup menu.
- 2 Press SET UP repeatedly (or ADV on the TV) 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 by 10 minutes.



TIMER: 0 MIN CV-CARLE- (TS.)3TO HEG (ED DH PROBRAM SUPTIALIES (ET) CONTROL FUNCTION TO SELECT ITEM PUSH SET UP TO CONTROL PUSH = +



Note: To display the time remaining, press TIMER once. To close the display, press TIMER,

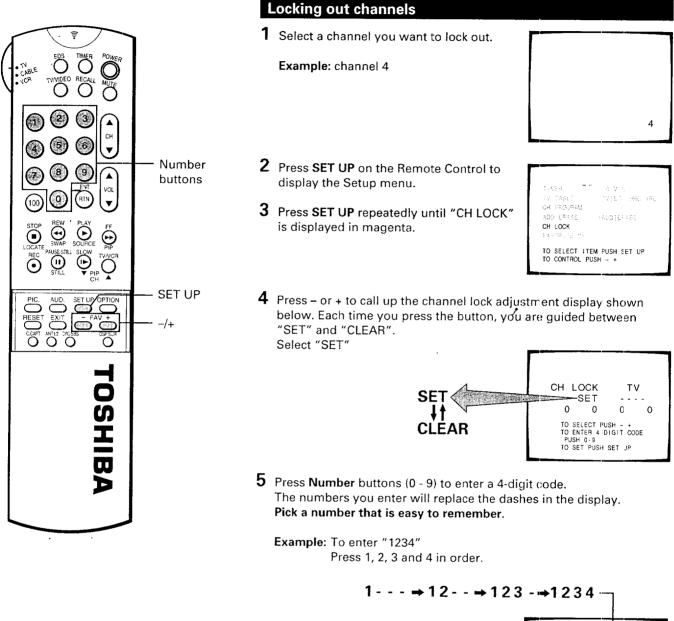
or display the Setup menu again.

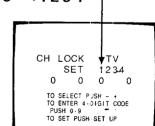
The Favorite Channel Programming feature allows you to program up to 12 of your favorite channels. Once programmed, you can use the FAV -/+ buttons on the Remote Control to scan through only your favorite channels, skipping other channels you do not normally view. You can use the CHANNEL  $\blacktriangle/\forall$  buttons to scan through all the channels you programmed in the TV's memory. Programming your favorite channels CX27F60 Select a channel you want to program. Example: channel 2 CX32F60 00 0 2 MENU ADV 2 Press SET UP on the Remote Control (or \_ \_ MENU on the TV) to display the SET UP a win --/+ VICABLE TVISTU HHG HRG menu on the screen. си вороснам VDD-ERASE ACC 19 AAR 3 Press SET UP repeatedly (or ADV on the FAVORITE CH ē TV) until "FAVORITE CH" is displayed in TO SELECT ITEM PUSH SET UP TO CONTROL PUSH - + magenta. 4 Press – or + to display FAVORITE CH menu. FAVORITE CH Each time you press - or +, you are [SET]CLEAR 0 0 0 0 guided between "SET" and "CLEAR". 0 0 0 0 0 D. [TV:CYAN, CABLE: BLUE ] TO SELECT PUSH - + TO SET PUSH SET UP (100 lacksquare5 To program channels:  $\odot$ Press SET UP (or ADV ) until the channel number to be programmed ("2" in this [SET]CLERR 0 0 0 0 example) replace "0" on the display. 0 0 0 0 SET UP To erase channels: TO SELECT PUSH RESE EXIT -/+ TO SET PUSH SET UP Press SET UP (or ADV ) until "0" replaces FAV -/+ channel number to be erased, "2" for Õ example. 6 Repeat steps 1 to 5 for other channels. Selecting your favorite channels To select your favorite channels you have programmed, use the FAV -/+ buttons on the Remote Control instead of using the CHANNEL ▲/▼ buttons. Note: The FAV -/+ buttons cannot function if you have not programmed vour favorite channels.



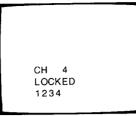
## **Locking Channels**

With this function you can lock out specific channels by entering your own 4-digit code. The TV will not be able to tune to those channel for the next 24 hours, unless you enter the code. This TV has 8 memory spaces total, 4 for the TV mode and 4 for CABLE mode.





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

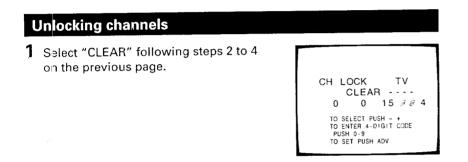


7 Repeat steps 1 to 6 for other channels. This TV has 8 memory spaces total, 4 for the TV mode and 4 for

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.



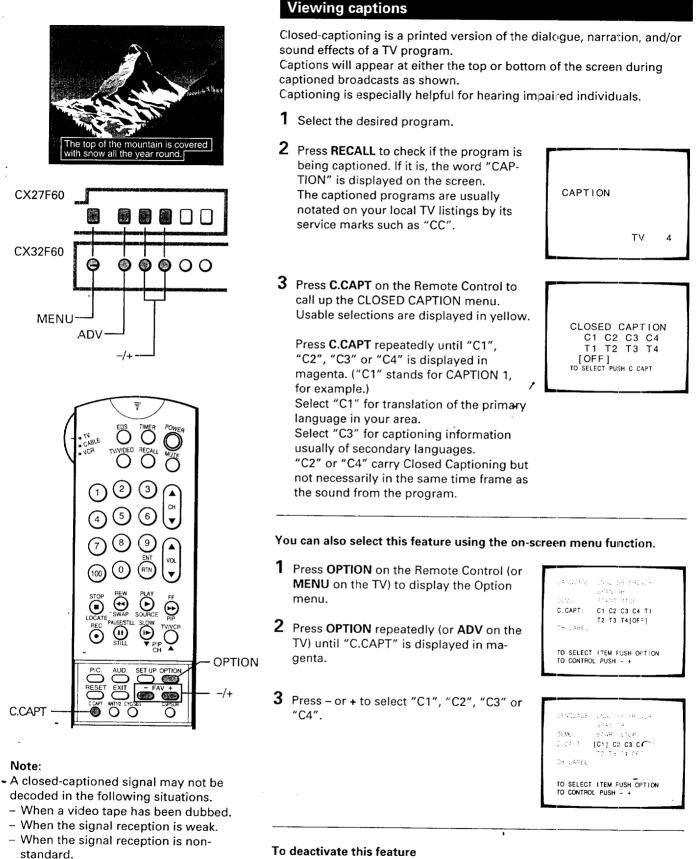
**2** Enter the 4-digit code used to lock out the channels with the Number buttons.

# Press SET UP. If you have entered the correct code The display shown at the right appears. CLEARED 1234 If a wrong code has been entered These messages appear. Try to enter the correct code again. WRONG CODE ENTER CORRECT CODE

#### If you want to know the channels you have locked out

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



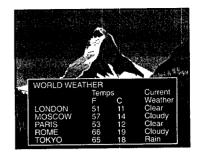


Select "OFF" in the CLOSED CAPTION mode display.

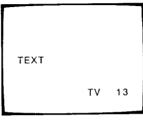
#### Viewing text

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 **RECALL** to check if the program includes text information. If it is, the word "TEXT" is displayed on the screen.



CLOSED CAPTION C1 C2 C3 C4 T1 T2 T3 T4 [OFF] TO SELECT PUSH C.CAPT

.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 OPTION on the Remote Control (or AND THE FRENCH LANGUAGE MENU on the TV) to display the Option menu. C1 C2 C3 C4 T1 C.CAPT: T2 T3 T4[OFF] 14 12851 2 Press OPTION repeatedly (or ADV on the TV) until "C.CAPT" is displayed in TO SELECT ITEM PUSH OP TON TO CONTROL PUSH - + magenta. 3 Press - or + to select "T1", "T2", "T3" or "T4". 5140, 23 5140, 23 51441(5102) 01 11 03 04[T1] T2 T3 T4 025 CH LABEL TO SELECT ITEM PUSH OPTION TO CONTROL PUSH - +

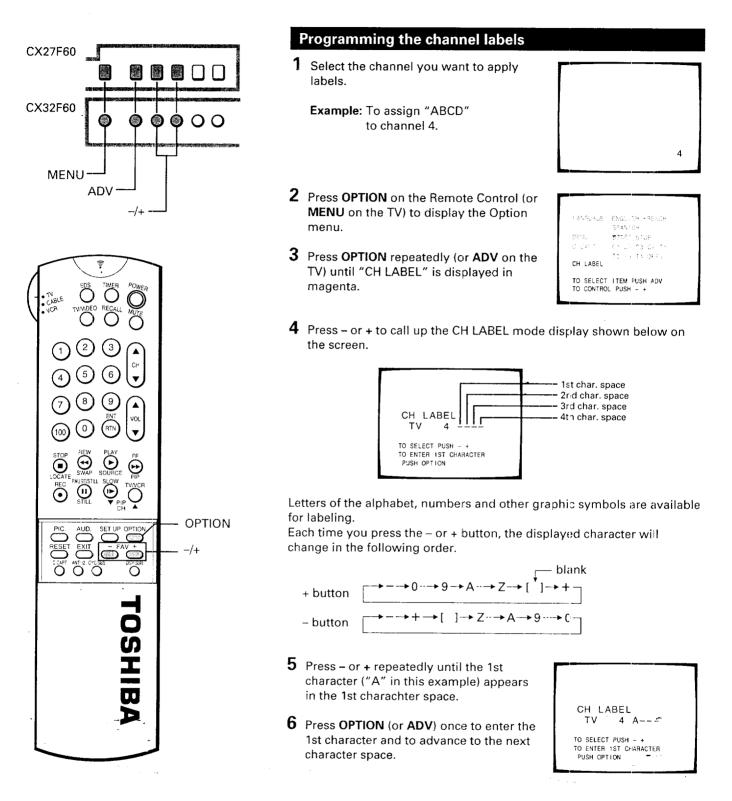
To deactivate this feature

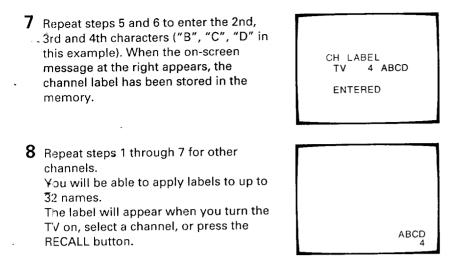
Select "OFF" in the CLOSED CAPTION mode display.

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.



This feature allows you to enter a 4 letter channel identifier of your choice that will appear over the channel number display. The labeling can be anything you want (for example the station call letters).





### **Clearing channel labels**

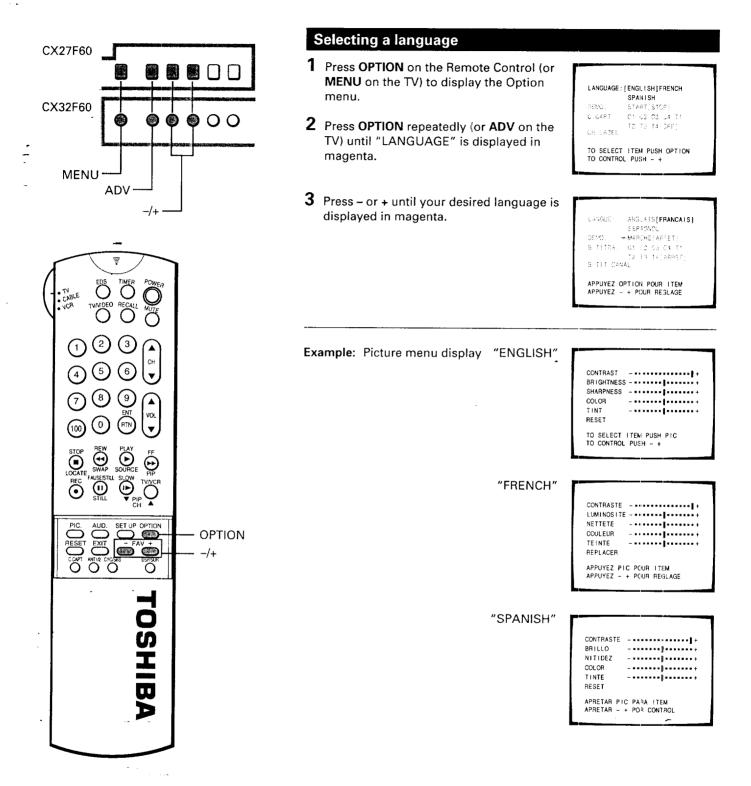
- **1** Select the channel which has the label you want to clear.
- 2-4 Follow steps 2-4 on the previous page to call up the CH LABEL mode display.
- 5 Enter "[blank]" (or "-") in all character spaces.

CH LABEL TV 4 ABCD TO SELECT PUSH - + TO ENTER IST CHARACTER PUSH OPTION

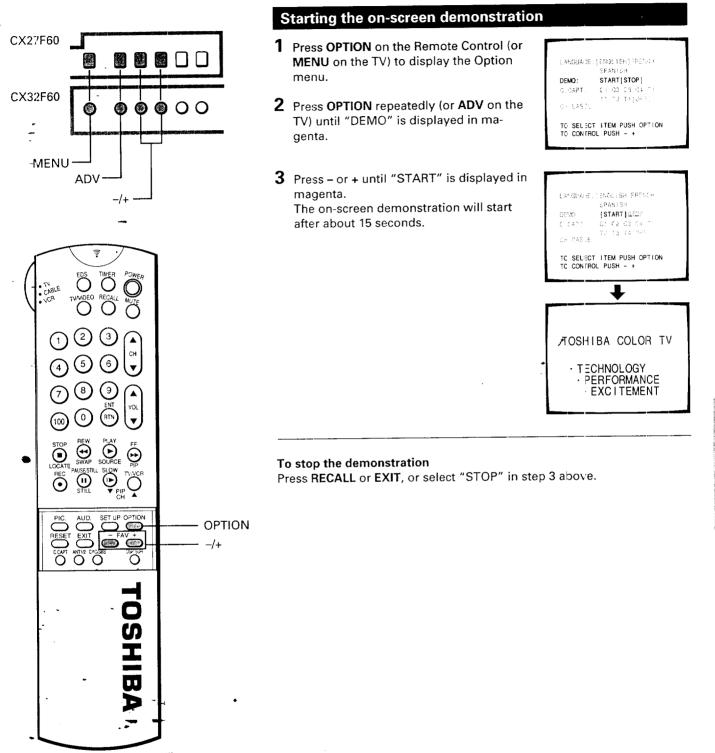
CH LABEL TV 4 将动器单 TO SELECT PUSH - + TO INTER IST CHARACTEP PUSH OPT'ON



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.



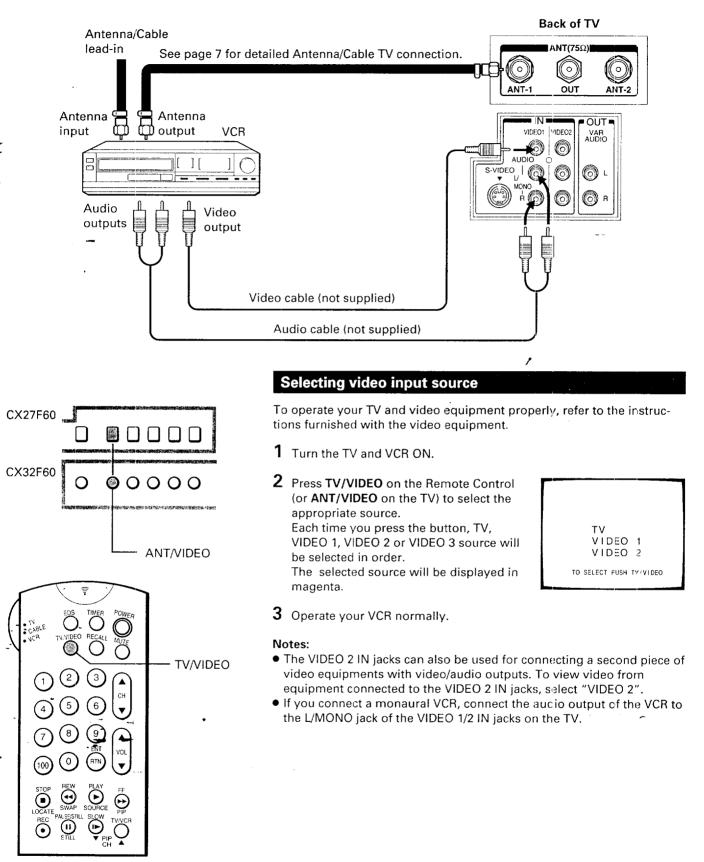
When this function is activated, your TV will automatically display a variety of its on-screen menus and special features. This function is provided for demonstration purpose only.



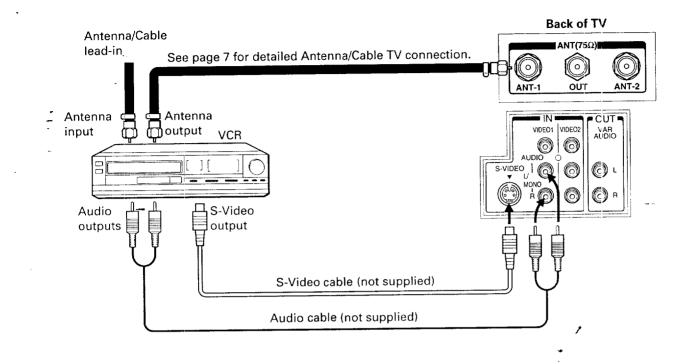
ADVANCED OPERATION

39

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



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.



## Selecting video input source

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

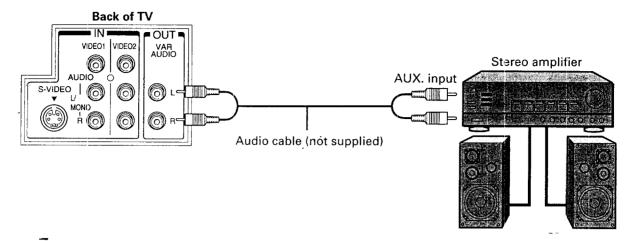
### Notes:

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

SNOIL

# **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 AUD repeatedly until "SPEAKERS" is 22.02 displayed in magenta in \*\*\*\*\*\* 180368 the Audio menu. SPEAKERS: (ON)OFF TO SELECT ITEM PUSH AUD TO CONTROL PUSH - + 2 Press - or + until "OFF" is displayed in magenta. DASS 1968.6 The built-in speakers will be disconnected. :)⊷[OFF TO SELECT ITEM PUSH AUD TO CONTROL PUSH - +

To use the built-in speakers again Select "ON" in step 2 above.

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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:	CX27F60; 100W (average) CX32F60; 111W (average)
-	AUDIO POWER:	5W + 5W
	SPEAKER TYPE:	CX27F60; 3-1/8 x 4-3/4 inches (80 x 120 mm) CX32F60; 2-3/4 x 5-1/8 inches (70 x 130 mm)
	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/AUDIO 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:	CX27F60; Width 28-37/64 inches (726mm) Height 24-3/32 inches (612mm) Depth 19-17/32 inches (496mm) CX32F60; Width 30-7/16 inches (773mm) Height 28-5/64 inches (713mm) Depth 22-31/64 inches (571mm)
	MASS:	CX27F60; 84.4 lbs (39.3kg) CX32F60; 128.9 lbs (58.0kg)
	SUPPLIED ACCESSORIES:	Remote Control with 2 size "AA" batteries Antenna adapter
	OPTIONAL TV STAND:	CX27F60; ST2714 CX32F60; ST3212

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Design and specifications are subject to change without notice.

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Symptoms	спеск	Aujusimenis
No picture, no sound	<ul> <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> <li>Press POWER button.</li> <li>Try another channel.</li> </ul>
• No sound, picture OK	<ul> <li>May be station trouble.</li> <li>Check if SPEAKERS ON/OFF function (page 43) is properly set.</li> </ul>	<ul> <li>Try another channel.</li> <li>Adjust VOLUME.</li> </ul>
Poor sound, picture OK	<ul> <li>May be station trouble.</li> <li>Check antenna connections.</li> <li>May be local interference from an appliance.</li> </ul>	<ul> <li>Try another channel.</li> <li>Adjust VOLUME.</li> <li>Adjust BASS, TREBLE, or BALANCE control.</li> <li>Re-orient antenna.</li> </ul>
<ul> <li>Poor picture, sound OK Snowy picture</li> <li>Lines in picture</li> <li>Distorted picture</li> <li>Weak picture</li> </ul>	<ul> <li>May be local interference from an appliance.</li> <li>Check antenna connections.</li> <li>Check antenna for broken wires.</li> <li>May be station trouble.</li> </ul>	<ul> <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> <li>Check antenna connections.</li> <li>Check antenna for broken wires.</li> <li>If VCR is connected, check TV/VCR switch.</li> </ul>	<ul> <li>Try another channel.</li> <li>Re-orient antenna.</li> </ul>
No UHF, VHF OK	<ul> <li>Be sure TV/CABLE function (page 19) is in "TV" mode.</li> </ul>	
Unable to select a certain     channel	<ul> <li>That channel may be locked out with CH LOCK function (page 32), or erased with the ADD/ ERASE function (page 20).</li> </ul>	
<ul> <li>Multiple images (ghosts)</li> </ul>	<ul><li>May be station trouble.</li><li>Check antenna connections.</li></ul>	<ul><li>Try another channel.</li><li>Re-orient antenna.</li></ul>
Poor color or No color	<ul> <li>May be station trouble.</li> <li>Check antenna connections.</li> <li>Check antenna for broken wires.</li> <li>May be local interference from an 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 to cool for about 30 minutes, then turn on the TV again. The picture should improve.</li> </ul>	<ul> <li>Try another channel.</li> <li>Re-orient antenna.</li> <li>Adjust TINT.</li> <li>Adjust COLOR.</li> </ul>
<ul> <li>No stereo or SAP sound from a known MFS broadcast</li> </ul>	• Check if MTS function is properly set.	
• Remote control does not work	<ul> <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>	• Change batteries.



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# **Limited United States Warranty**

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

#### Limited One (1) Year Warranty

TACP and THI warrant this product and its parts against defects in rnaterials 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 or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

#### **Commercial Units**

Products sold and used for commercial use have a limited ninety (90) day warranty for all parts, labor and picture tube.

#### **Owner's Manual and Demographic Card**

You should read this owner's manual thoroughly before operating this product. You should complete and mail the enclosed Demographic card within ten days after you, or the person who has given you this product as a gift, purchased this product. This is one way to enable TACP/THI to provide you with better customer service and improved products. Failure to return the Demographic card will not affect your rights under this warranty.

#### Your Responsibility

The above warranties are subject to the following conditions:

- (1) You must retain your bill of sale or provide other proof of purchase.
- (2) All warranty servicing of this product must be made by an Authorized TACP/THI Service Station.
- (3) These warranties are effective only if the product is purchased and operated in the U.S.A. or Puerto Rico. \_\_\_
- (4) Labor service charges for set installation, set up, adjustment of customer controls and installation or repair of antenna systems are not covered by this warranty. Reception problems caused by inadequate antenna systems are your responsibility.
- (5) Warranties extend only to defects in materials or workmanship as limited above and do not extend to any product or parts which have been lost or discarded by you or to damage to products or parts caused by misuse, accident, damage caused by Acts of God, such as lightning or fluctuations in electric power, improper installation, improper maintenance or use in violation of instructions furnished by us; or to units which have 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; IN THE CONTINENTAL UNITED STATES

- (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."

Should your unit require service, Call: Toll Free 1-800-631-3811

HAWAII, 327 Kamakee Street, Honolulu, HA 96814 (808) 521-5377

All warranties implied by state law, including the implied warranties of merchantability and fitness for a par:icular 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.

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Limited United States Warranty



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# TOSHIBA AMERICA CONSUMER PRODUCTS, INC.

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SERVICE CENTERS/TORONTO: 191 MCNABB STREET, MARKHAM, ONTARIO, L3R 8H2, CANADA TEL: (905) 470-5400 MONTREAL: 1643, NORTH SERVICE RD., TRANS-CANADA HIGHWAY, DORVAL QUEBEC, H9P 1J1, CANADA TEL: (514) 332-6860

\_VANCOUVER:• 3870 JACOMBS ROAD, RICHMOND, B.C., V6V 1Y6, CANADA TEL: (604) 270-8481 ~

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