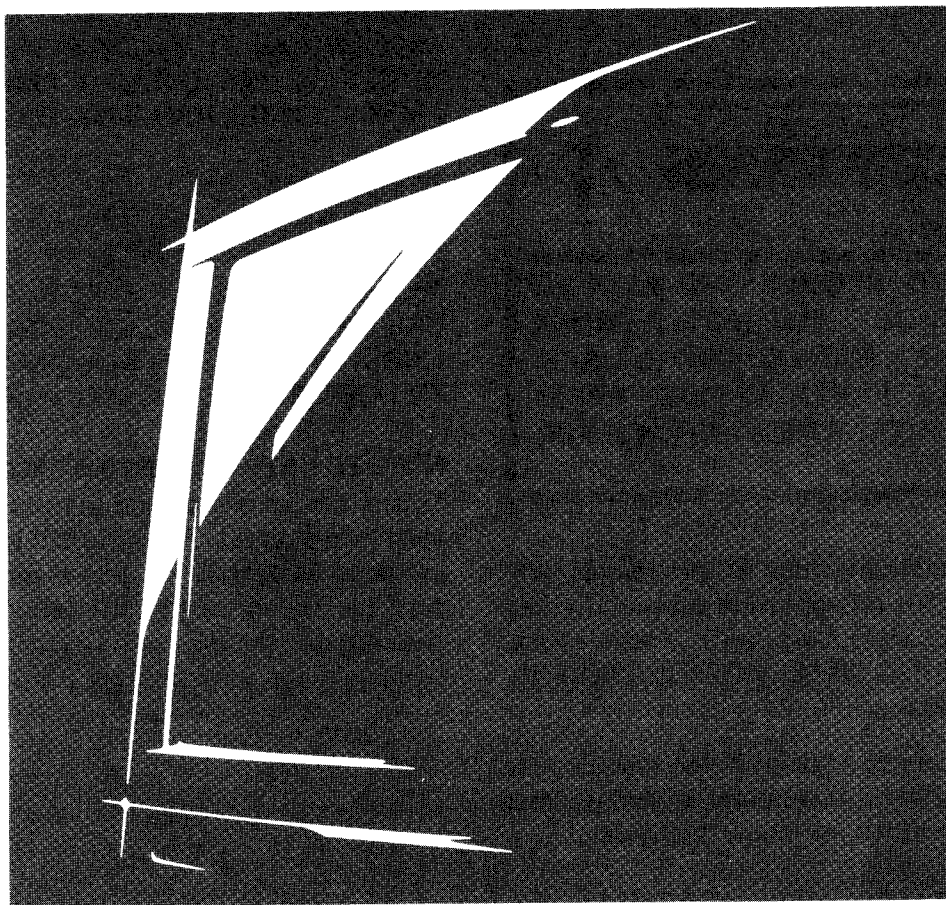


TOSHIBA

Color Television

OWNER'S MANUAL

CX35E60/CX32E70/CX35E70



SET UP

PREPARATION

BASIC OPERATION

ADVANCED
OPERATION

EQUIPMENT
CONNECTIONS

REFERENCE
SECTION

Dear Customer

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

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

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

* This manual applies to models CX35E60, CX32E70 and CX35E70.

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.

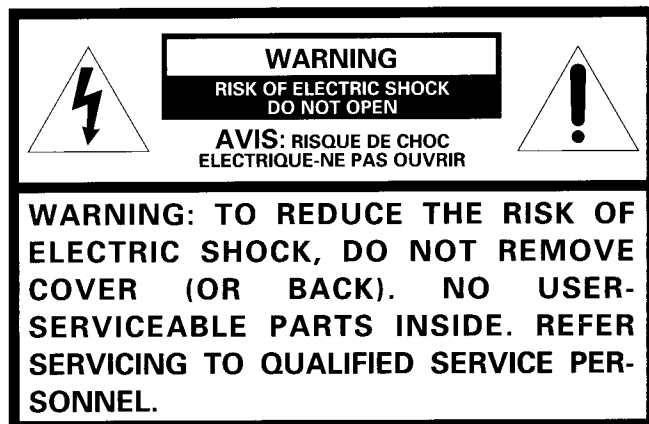
Model Number _____

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 4. 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 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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Equipment Connections

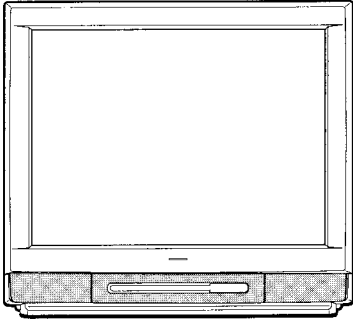
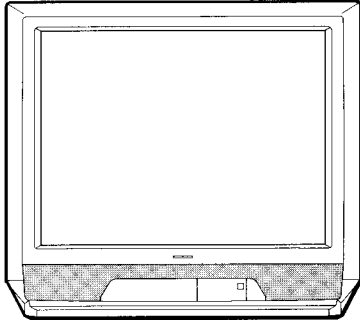
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About the Manual

This manual applies to models CX36E60, CX32E70 and CX35E70, and there are slight differences among them. Before operating the TV, check the table below.

Item	Model	CX35E60	CX32E70	CX35E70
Overview				
AUDIO CENTER CHANNEL IN jack		Not equipped	Equipped	Equipped
Optional TV stand		ST3502	ST3203	ST3503

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 :

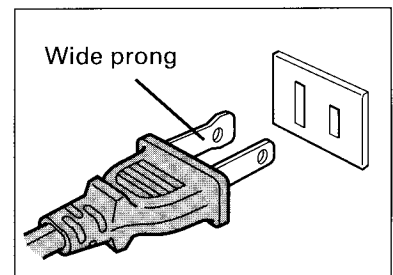
TO AVOID PERSONAL INJURY

- 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.

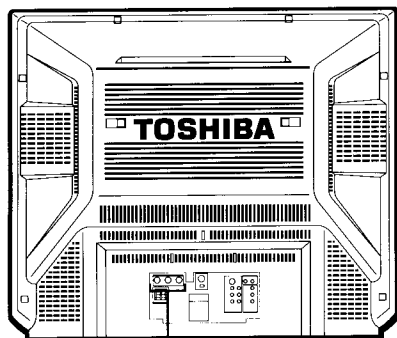
You will need to have a new outlet installed by an electrician. **DO NOT CHANGE THE SAFETY FEATURE OF THE PLUG.**



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: CX35E70)



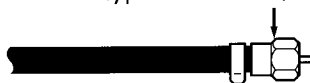
Antenna connection panel

Types of antenna cables

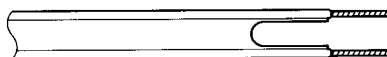
Shown below are two basic types of antenna cables. Signals from a home antenna may be conveyed by either type. Cable TV signals will always be conveyed by a 75 ohm coaxial cable.

- 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

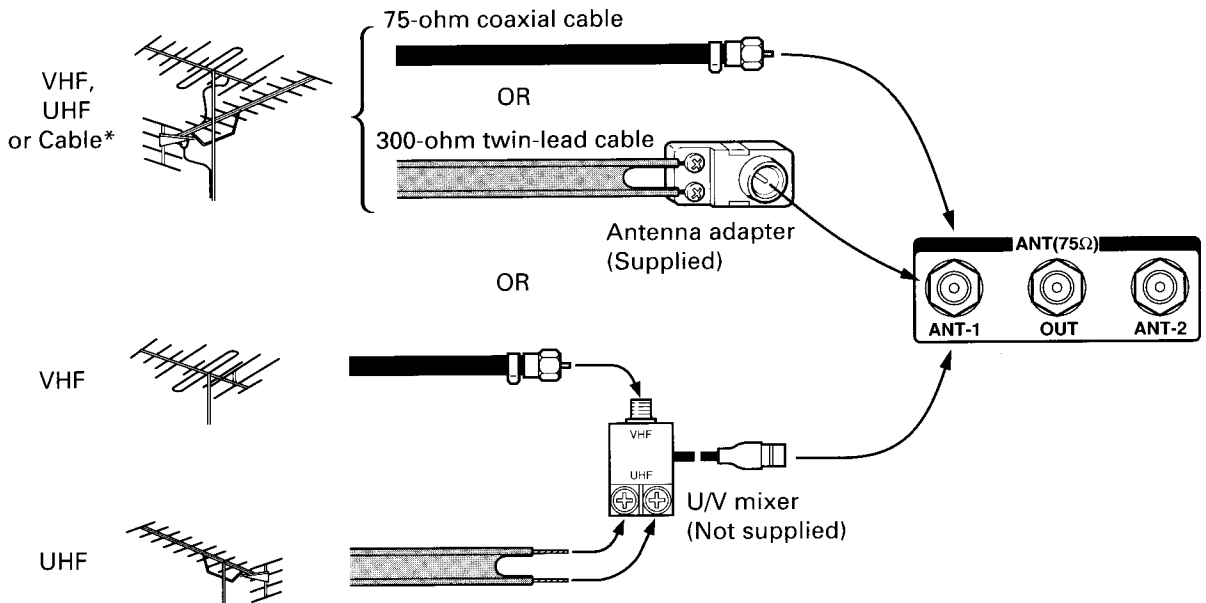
There are two separate 75 ohm F-type connector terminals and a converter output terminal as shown below.



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.

Antenna/Cable TV Connection

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

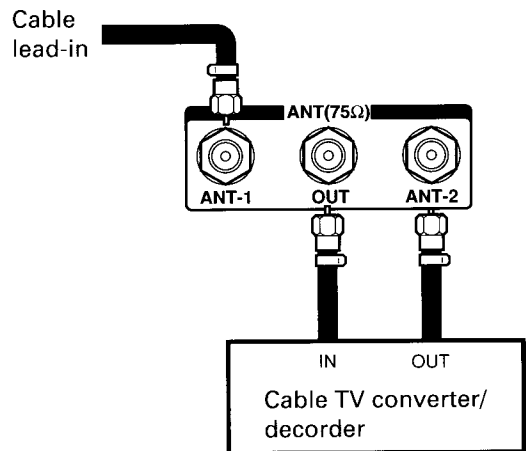
Some cable companies offer "premium pay channels". Since the signals of these premium pay channels are scrambled, a cable TV converter/decoder is generally provided to the subscriber by the cable TV company. This decoder box is necessary for normal viewing of scrambled channels. For more specific instructions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

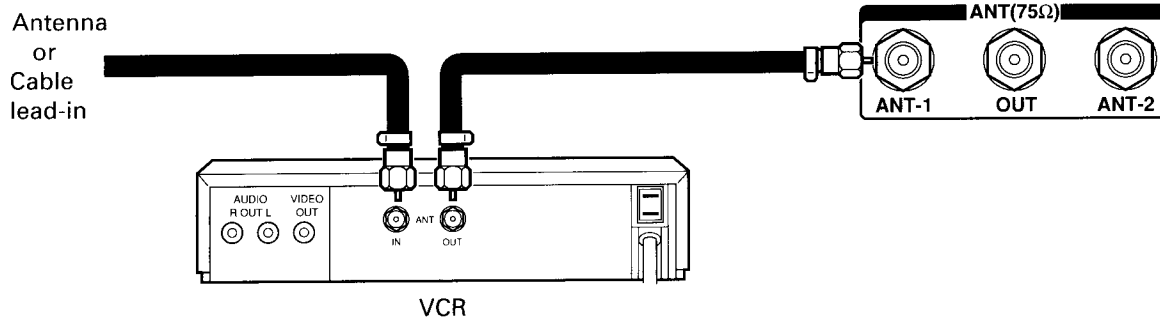
Note: The descrambler device may or may not be a part of the cable converter.



Antenna/Cable TV and VCR Connections

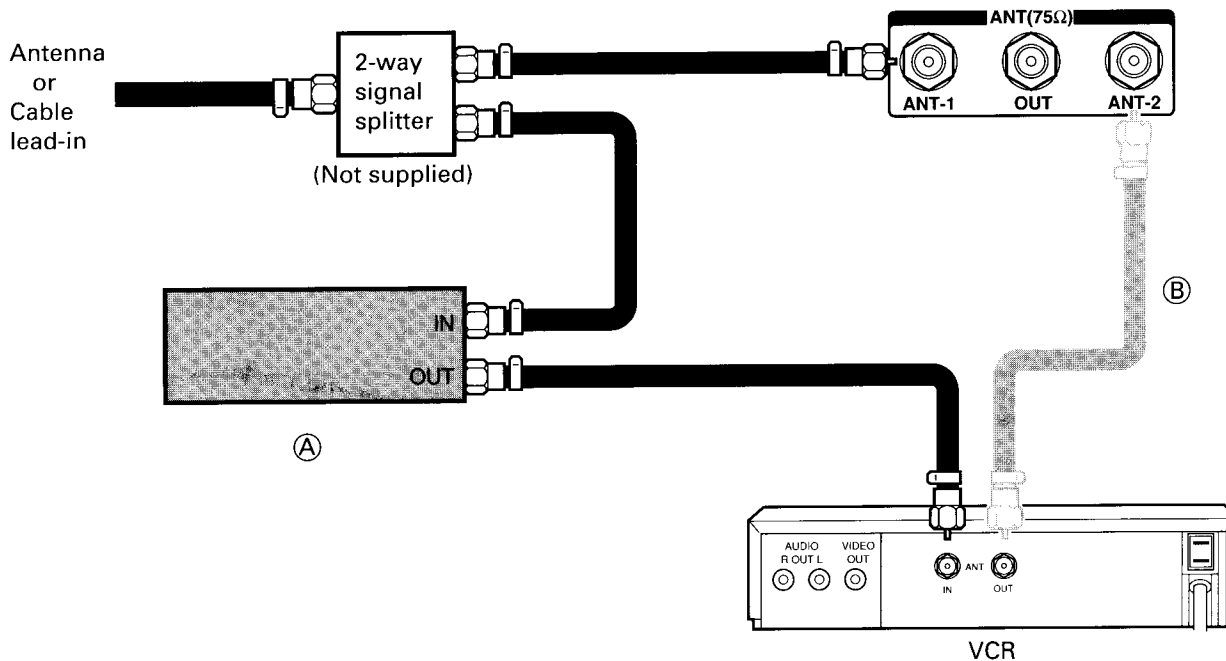
After antenna cable connections are made, you are still required to connect the VCR using video/audio connecting cables for (stereo) playback of good quality from the VCR. See page 44.

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.

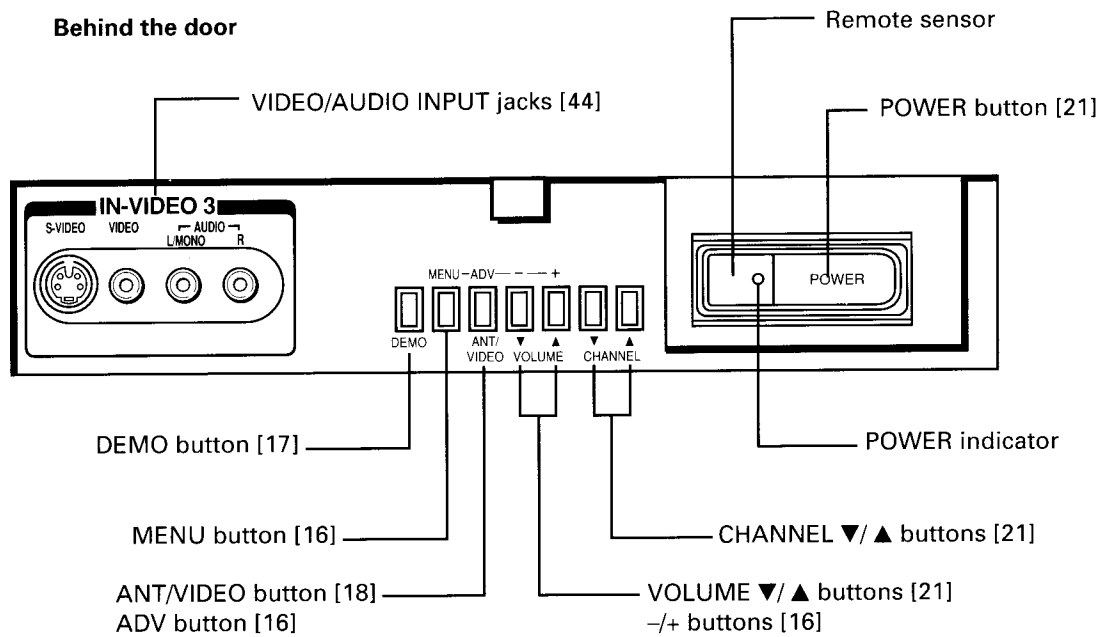
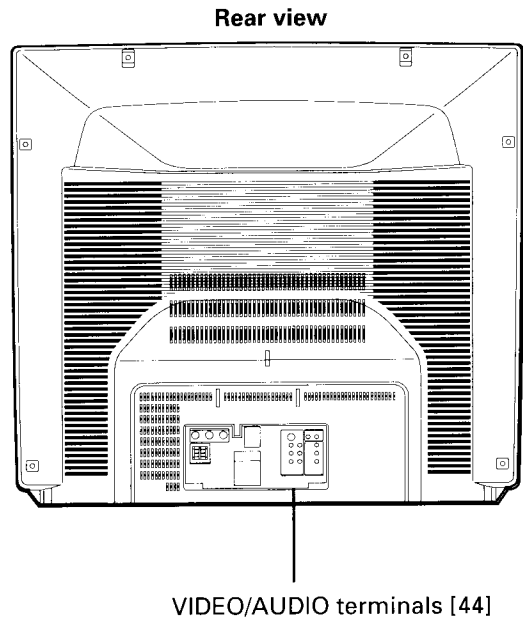
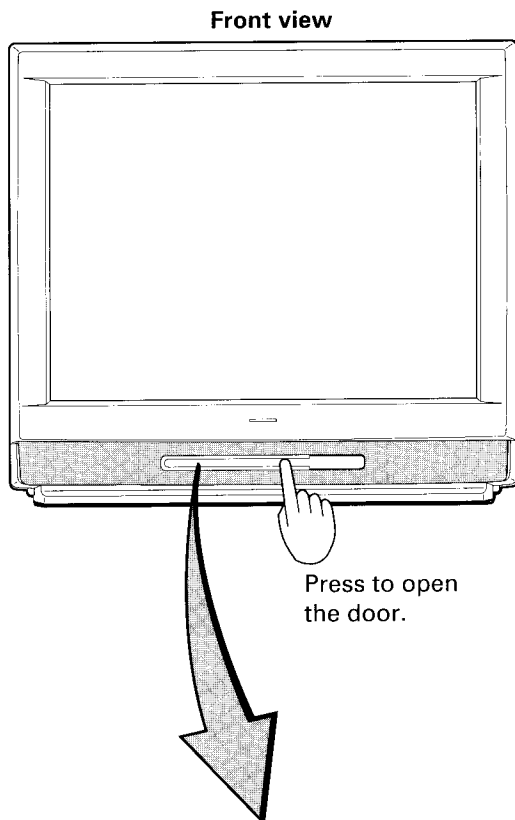
Using a 2-way signal splitter



Notes:

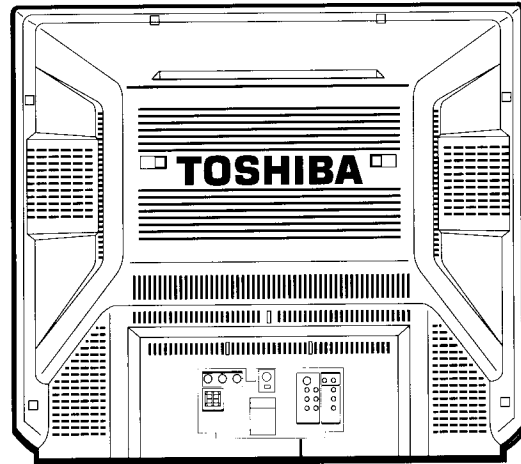
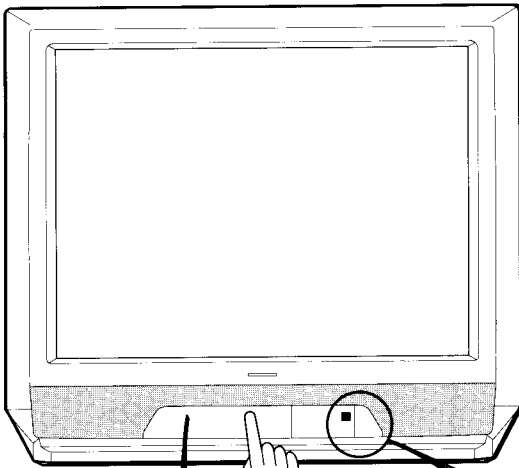
- When connecting a cable TV converter/decoder (A):
The unscrambled channels will come through the ANT-1 terminal whenever the antenna input is in the ANT 1 mode. The scrambled channels from the decoder box will come through the VCR and the ANT-2 terminal whenever the antenna input is set to the ANT 2 mode. Select channel 3 or 4 on your TV and VCR to match your converter's output channel. See page 18.
- The cable (B) connection is necessary only when the cable TV converter/decoder (A) is connected.

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



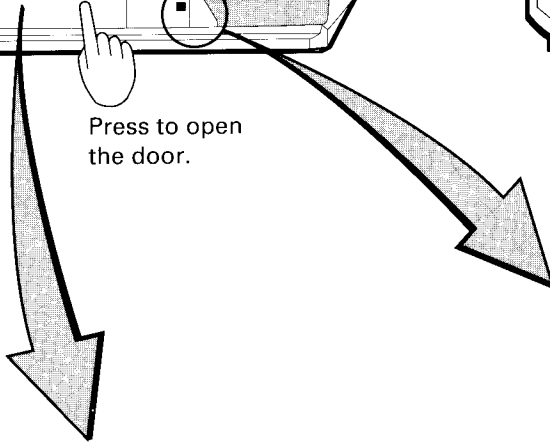
Front view

Rear view

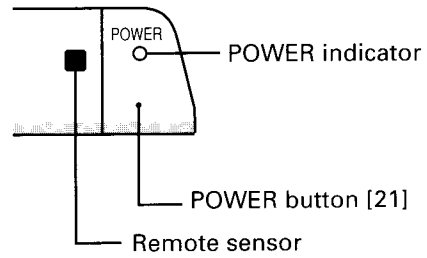


Press to open the door.

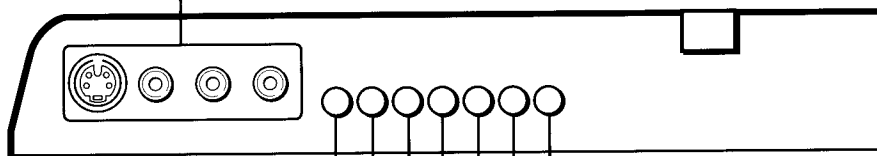
VIDEO/AUDIO terminals [44]



Behind the door



VIDEO/AUDIO INPUT jacks [44]



DEMO button [17]

CHANNEL ▼/▲ buttons [21]

MENU button [16]

VOLUME ▼/▲ buttons [21]
-/+ buttons [16]

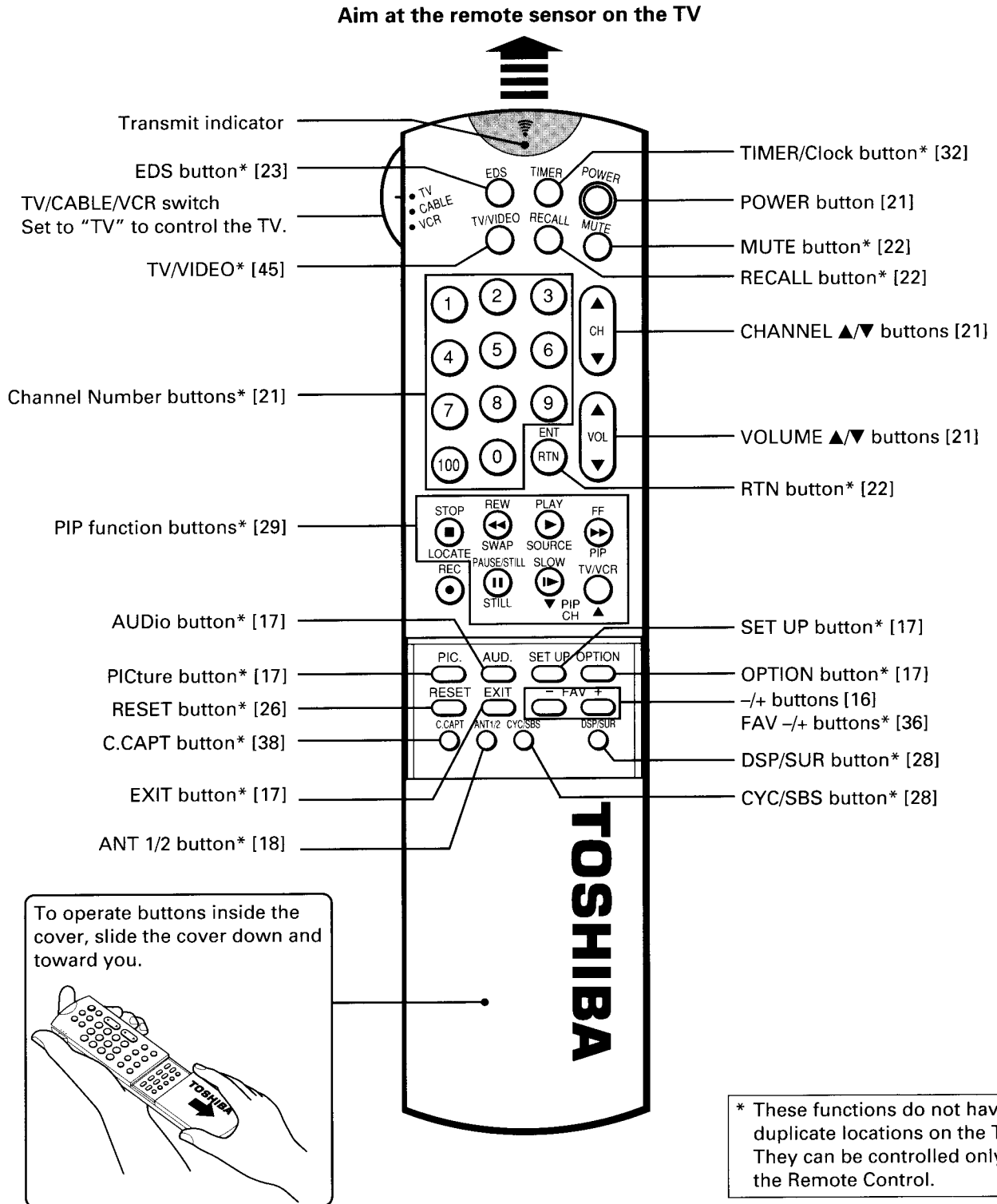
ANT/VIDEO button [18]
ADV button [16]

PREPARATION

Location of Controls (TV Set)

Location of Controls (Remote Control)

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



Before Using the Remote Control

Introduction

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.

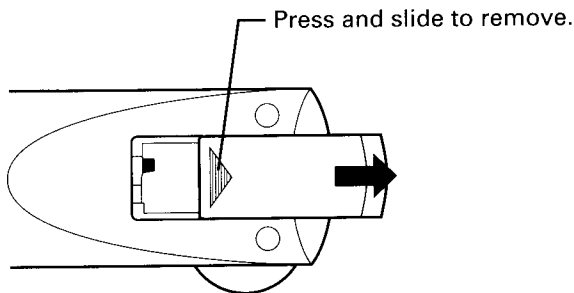
Notes:

- 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.

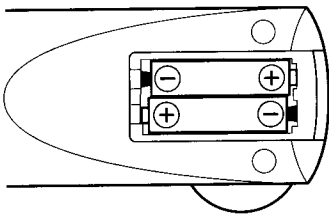
PREPARATION

Installing and replacing batteries

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



- 2 Place two "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

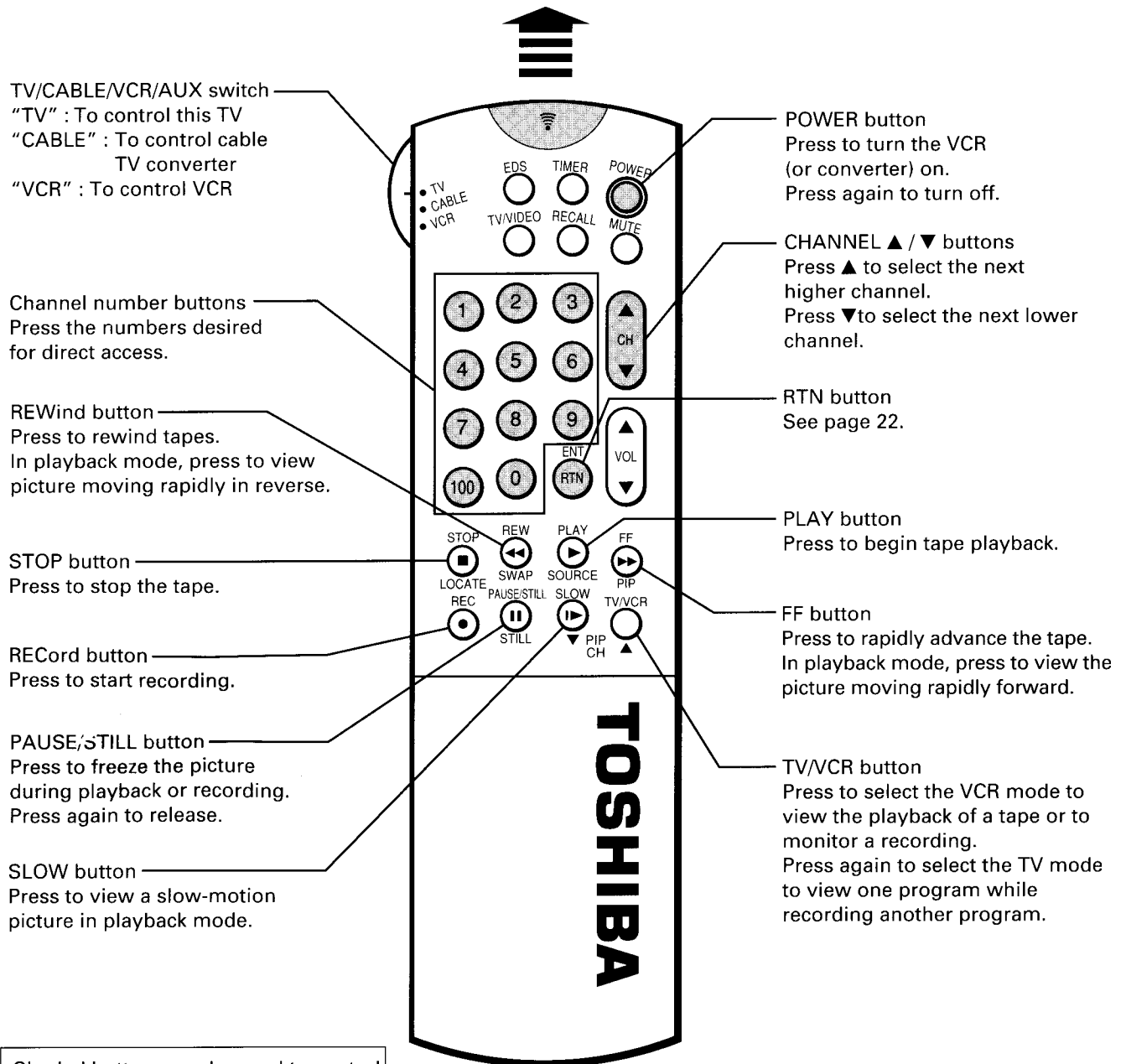
- For optimum performance, aim the Remote Control directly at the TV from a distance no more than 16 ft (5m) and be sure there is no obstruction between the Remote Control and the TV.
- If your Remote Control does not always control the TV as you wish, you probably need to replace the batteries.
- Remove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

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

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.

Aim at the VCR or cable TV converter

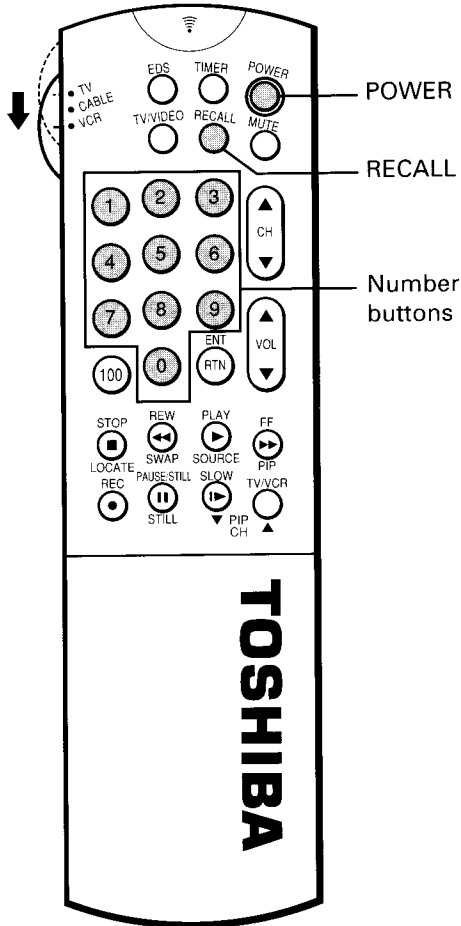


Shaded buttons can be used to control the cable TV converter

Programming the Remote Control

- 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



1 Refer to the “VCR code table” (or “Cable TV converter code table”) 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.

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

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

Notes:

- You have to reprogram the Remote Control when you change its batteries.
- Some newer VCR's are capable of working on either of two remote codes. These VCR's have a switch labeled “VCR1/VCR2”. If your VCR has this kind of switch, and does not respond to 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: _____

PREPARATION

Using the Remote with VCR or Cable TV Converter/ Programming the Remote Control

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	BRAND NAME	CODE NUMBER	BRAND NAME	CODE NUMBER
Aiko	297	Graetz	060,123	Philco	054
Aiwa	019	Granada	065,100,123	Philips	054,081,100,129
Akai	060,068,080,125 261	Grundig	100	Phonola	100
Alba	039,228,297	Harman/Kardon	057	Pilot	056
Amstrad	019	HCM	091	Pioneer	086,100
Anitech	091	Hinari	091,227	Portland	039
Anem	181	Hitachi	019,060,061,084	Profitronic	259
ASA	056,100	Imperial	019	Proline	019
Audiovox	056	Interfunk	100	Protec	091
Baird	123	ITT	060,065,123,125	Pulsar	058
Bell & Howell	123	JCL	054	Pye	100
Blaupunkt	181	Jensen	060	Quartz	065
Broksonic	140,203,230	JVC	027,060,086	Quasar	054,115
Bush	091,228,297	Kendo	125	Quelle	100
Canon	054	Kenwood	057,060,065,086	Radiola	100
Capehart	039	Lloyd	019	RCA	054,061,084,096 168,221
Carver	100	Loewe	056	RCA Unified	079
CCE	091,297	Loewe opta	100	Realistic	019,054,056,065 066,067,081,085 123,259
CGE	019	Logik	091,259	Rex	060
Cimline	091	Luxor	062,065,125	Ricoh	053
Condor	039	LXI	056	Roadstar	056,091,259
Craig	066,259	Magnavox	019,054,100,129 168	Runco	058
Crown	297	Manesth	064,091	Saba	060
Curtis Mathes	054	Marantz	054,057,081,100	Saisho	227,228
Daewoo	039,064,065,297	Marta	056	Salora	062,065,125
Dansai	091	Matsui	227,228	Samsung	064,259
Daytron	039	MEI	054	Sansui	060,086
De Graaf	061	Memorex	019,054,056,058 065,066,067,123	Sanyo	065,066,123,259
Decca	019,100	Metz	181	SBR	100
Dual	060	MGA	062,080	Schaub Lorenz	019,060
Dumont	019,100,123	Minolta	061	Schneider	019,091,100,129
Dynatech	019	Mitsubishi	062,080,086,100 233,261	Scott	064,140,203,229 231
Electronic	019	MTC	019,259	Sears	054,056,061,065 066,073,085,123
Emerex	051	Multitech	019,091	SEI	100
Emerson	019,021,056,080 140,203,227,228 230,231,313	Murphy	019	Senra	039
ESC	297	NEC	057,059,060,069 086	Sharp	067,081
Ferguson	060	Neckermann	100	Shintom	091
Fidelity	019	Nikko	056	Siemens	056,123
Finlandia	100,123,129	Noblex	259	Sinudyne	100
Finlux	019,061,100,123	Nokia	060,065,123,125 259	Sony	051,052,053,054
First line	062,091,228	Nordmende	060	STS	061
Fisher	065,066,073,085 123	Optonica	067,081	Sunstar	019
Frontech	039	Orion	140,227,228	Sylvania	054,062,100,129
Funai	019	Osaki	019,056,091	Symphonic	019
GE	054,079,084	Otto Versand	100	Tashiko	019
GEC	100	Palladium	091	Tatung	019,060,100
General	071	Panasonic	054,096,181,244	Teac	019,060
Go Video	251,298	Penney	054,056,057,059 061,259	Technics	054,181
Goldstar	056,057	Pentax	061,084	Teknika	019,054,056,071
Goodmans	019,039,056,081 091,297	Perdio	019	Telefunken	060,206
Gradienta	019			Tenosal	091

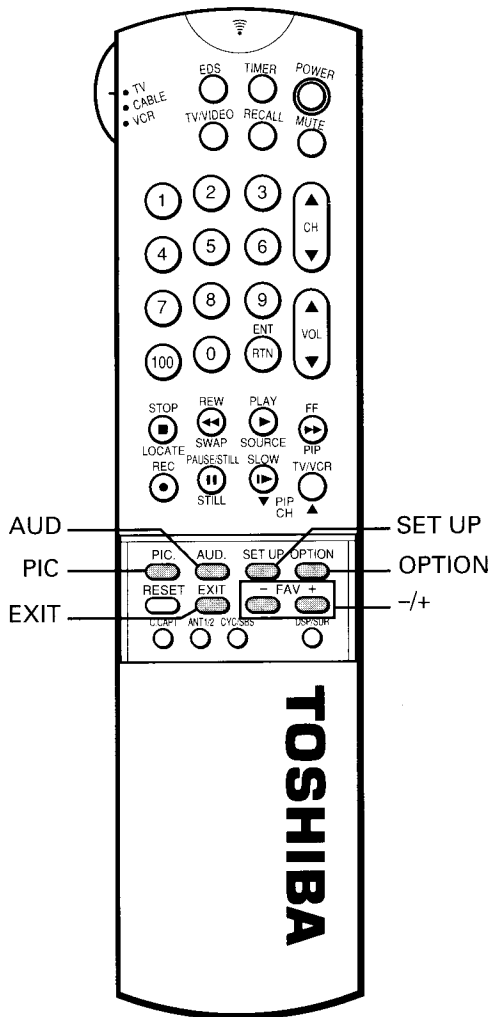
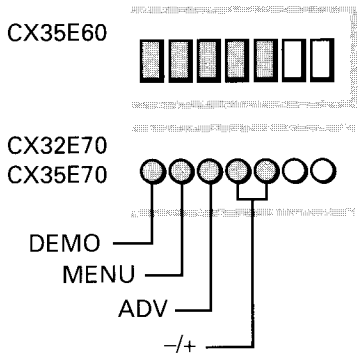
Cable TV converter code table

BRAND NAME	CODE NUMBER
Tensai	019
Thomson	060
Thorn	060
Toshiba	060,062,064,085 229,231,385
Totevision	056,259
Triumph	227
Unitech	259
Universum	019,056,068,100 125
Vector Research	057,059
Victor	027,060,086
Video Concepts	059,080
Videosonic	259
Wards	019,054,061,066 067,081,091,168 231,259
Yamaha	057,060
Yoko	259
Zenith	052,053,058

BRAND NAME	CODE NUMBER
ABC	026,030,032,036
Archer	058,172
Century	172
Citizen	172
Colour Voice	044,050
Comtronics	059,079
Eastern	021
Garrard	172
Gemini	034,089
General Instrument	030
Hamlin	028,039,278,292
Hitachi	030
Jasco	172
Jerrold	022,030,031,033 034,043,045,295
Macom	052
Magnavox	046
Memorex	019
Movie Time	175
NSC	089,175
Oak	026,038
Panasonic	040,181
Paragon	019
Philips	044,046,047,048 049,050,079
Pioneer	163
Pulsar	019
PVP Stereo Visual Matrix	022
RCA	040
Regal	039,278,292
Regency	021
Rembrandt	089
Runco	019
Samsung	059,163
Scientific Atlanta ...	025,027,036,296
Signal	034,059
Signature	030
SL Marx	059
Sprucer	040
Standard Components	174
Starcom	022,034
Stargate	034,059
STS	175
Tocom	031,032,078
Toshiba	019
Unika	172
United Artists	026
United Cable	022
Universal	058,096,172,210
Viewstar	046,079
Zenith	019

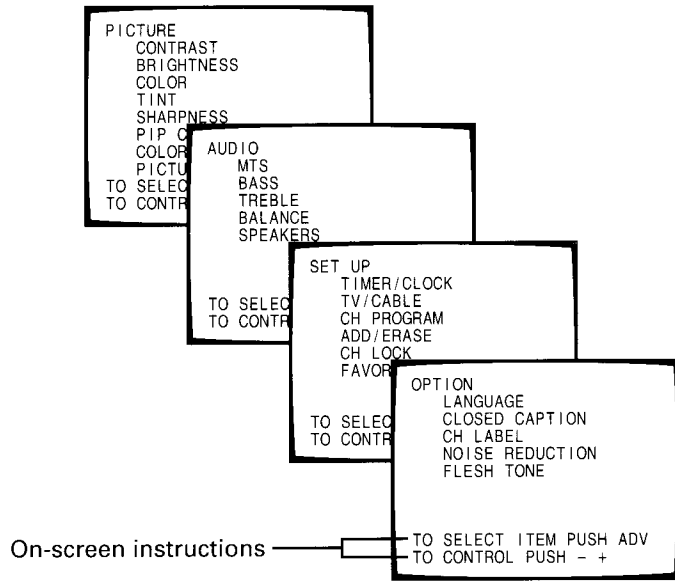
Menu Function (General Instructions)

We suggest you familiarize yourself with the procedure before using the Menu 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.



MENU button (on TV)

Each time you press **MENU**, the PICTURE, AUDIO, SET UP or OPTION menu on-screen display is selected in order, then press **ADV**.



ADV button (on TV)

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

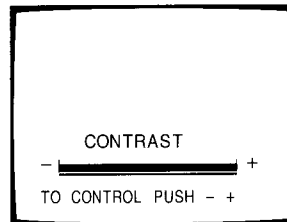
Each time you press **ADV**, the function to be adjusted will be selected in order.

The selected function will be displayed in magenta.

- /+ buttons (on TV and on Remote)

Use - /+ to adjust the function you have selected with the **ADV** button or any of the four menu buttons (**PIC**, **AUD**, **SET UP** or **OPTION**: see the next page).

Example: CONTRAST adjustment mode display.



Pressing + increases the picture contrast.
Pressing - decreases the picture contrast.

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.

```
PICTURE
CONTRAST
BRIGHTNESS
COLOR
TINT
SHARPNESS
PIP CONTRAST
COLOR TEMPERATURE
PICTURE PREFERENCE
TO SELECT ITEM PUSH PIC
TO CONTROL PUSH - +
```

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 26.

```
AUDIO
MTS
BASS
TREBLE
BALANCE
SPEAKERS
TO SELECT ITEM PUSH AUD
TO CONTROL PUSH - +
```

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.

```
SET UP
TIMER/CLOCK
TV/CABLE
CH PROGRAM
ADD/ERASE
CH LOCK
FAVORITE CH
TO SELECT ITEM
PUSH SET UP
TO CONTROL PUSH - +
```

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 38.

```
OPTION
LANGUAGE
CLOSED CAPTION
CH LABEL
NOISE REDUCTION
FLESH TONE
TO SELECT ITEM
PUSH OPTION
TO CONTROL PUSH - +
```

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**.

DEMO button (on TV)

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

Press **DEMO**.

The on-screen demonstration will start after about 4 seconds.

```
TOSHIBA COLOR TV
▪ TECHNOLOGY
▪ PERFORMANCE
▪ EXCITEMENT
```

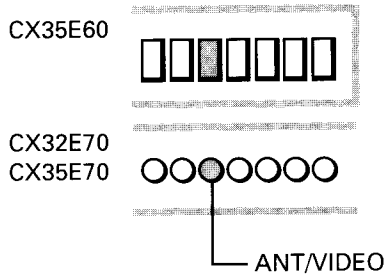
To stop the on-screen demonstration, press **DEMO** again.

Notes:

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

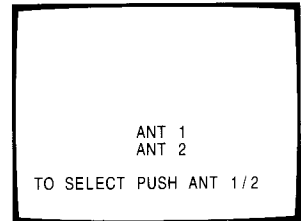
Selecting the Antenna Input

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)

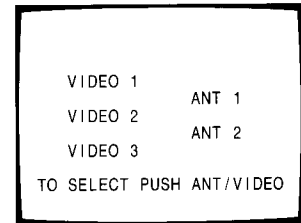
Each time you press the **ANT 1/2** button, the ANT 1 mode and ANT 2 mode will alternate. The selected mode will be displayed in magenta to show which antenna source you are watching. Select the mode that matches the antenna terminal you want to use.



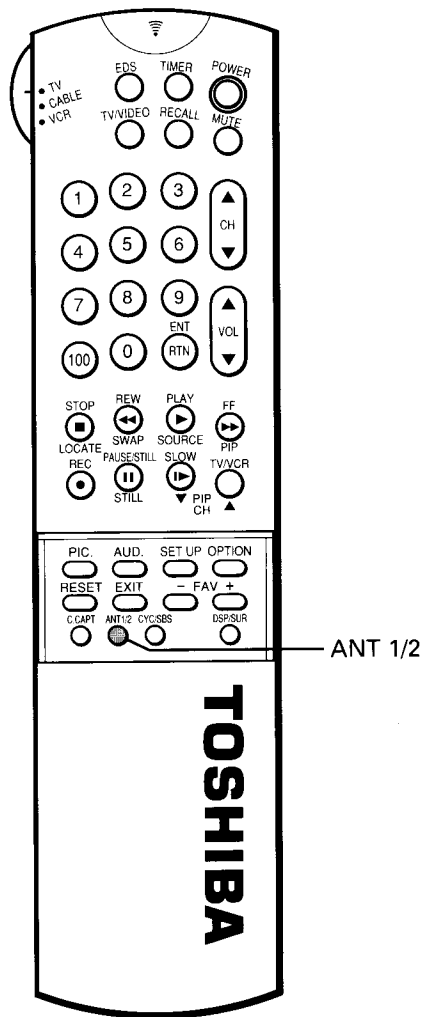
Note: This button does not function in the VIDEO mode.

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.

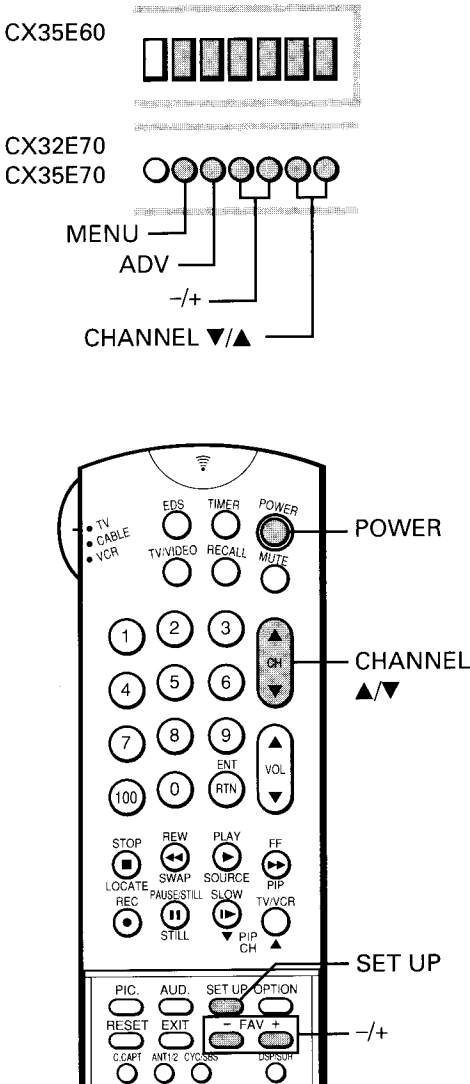


Note: This button functions as the ADV button while any of four menu displays (PICTURE, AUDIO, SET UP or OPTION) is on the screen.



Programming Channel Memory

The channel memory is the list of TV channel numbers your TV will stop on when you press the CHANNEL ▲ or ▼ button. **First, use the TV/CABLE and CH PROGRAM functions to preset all active channels in your area 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.



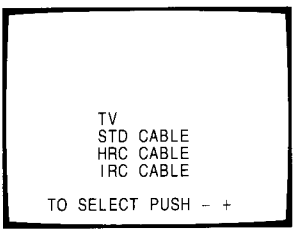
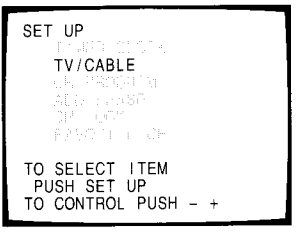
* This TV receives the following TV signals:

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

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

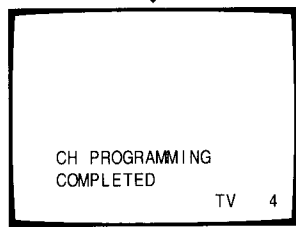
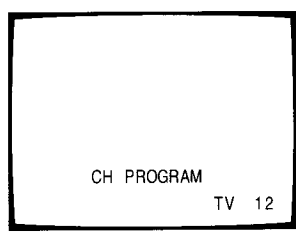
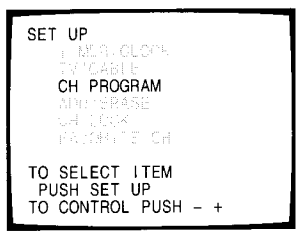
TV/CABLE function

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



CH PROGRAM function

- 1 Select "CH PROGRAM" following steps 2 and 3 above.
- 2 Press - or + to start channel programming. The TV will automatically cycle through all the TV or CABLE channels on the mode selected by the TV/CABLE function, and store active channels in the channel memory.
- 3 When channel programming is complete, you will see the message at the right.
- 4 Press **CHANNEL ▲** or **▼** to make sure the channel programming has been done properly.



PREPARATION
Selecting the Antenna Input / Programming Channel Memory

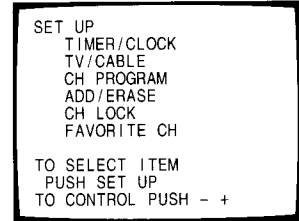
Programming Channel Memory (Continued)

ADD/ERASE function

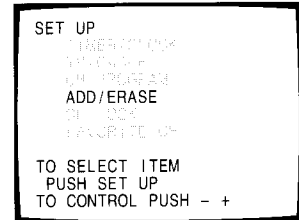
After performing the CH PROGRAM function, you can add or erase specific channels.

1 Select the channel you want to erase using the **CHANNEL ▲** or **▼** button, or select the channel you want to add using the **Channel Number** buttons.

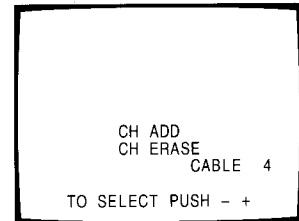
2 Press **SET UP** on the Remote Control (or **MENU** on the TV) to display the SET UP menu on the screen.



3 Press **SET UP** repeatedly (or **ADV** on the TV) until "ADD/ERASE" is displayed in magenta.



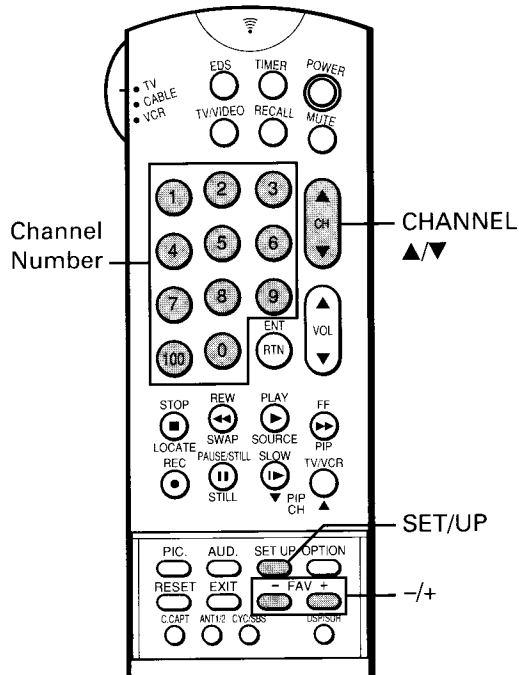
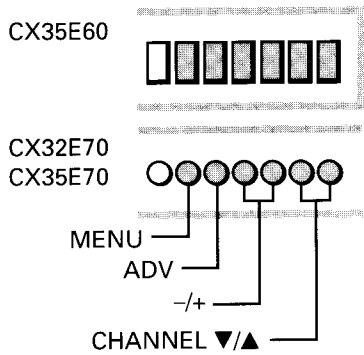
4 Press **-** or **+** :
To erase the channel
 Press the button until "CH ERASE" is displayed in magenta indicating that the channel has been erased from the memory.



To add the channel
 Press the button until "CH ADD" is displayed in magenta indicating that the channel has been memorized.

5 Repeat steps 1 to 4 for other channels.

You have now completed the channel programming.



CABLE channel reference chart

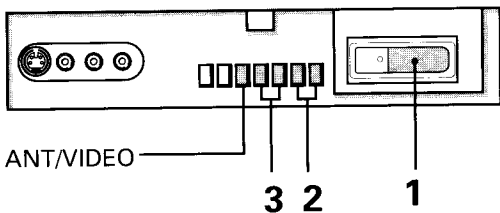
Number on this TV	1	5	6	14	15	16	.....	34	35	36	37	38	.....	60	61	62	63	64	65	66
Corresponding CABLE channel	A-8	5(A-7)	6(A-6)	A	B	C	.....	U	V	W	AA	BB	.....	XX	YY	ZZ	AAA	BBB	65	66
Number on this TV	67	68	69	.....	92	93	94	95	96	97	98	99	100	101	102	.....	123	124	125	
Corresponding CABLE channel	67	68	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.

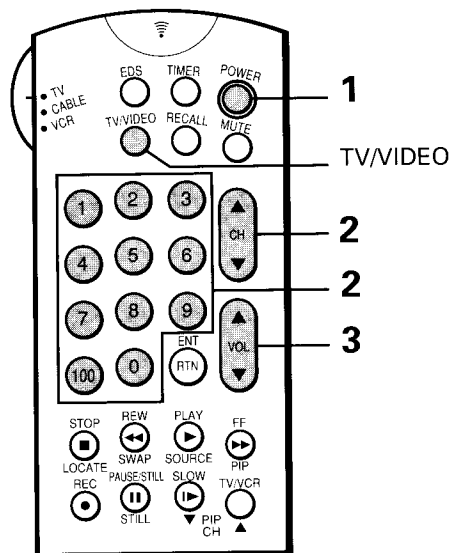
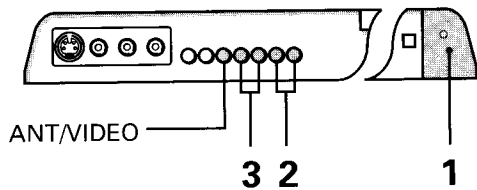
Watching TV Programs

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

CX35E60

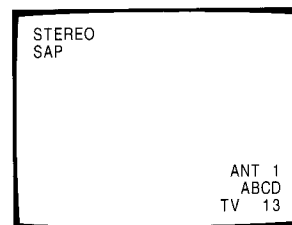


CX32E70
CX35E70



- 1 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.

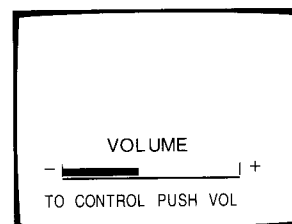
- 2 Select a channel in one of the following two ways.
 - **To scan the memorized channels in numerical sequence**
Press **CHANNEL ▲** to select the next higher channel.
Press **CHANNEL ▼** to select the next lower channel.
Press the button again to select the next memorized channels.

- **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 TV (off the air) or CABLE channels

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

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



Notes:

- The **VOLUME ▼/▲** buttons on the TV function as the **-/+** buttons while any of the menu displays (PICTURE, AUDIO, SET UP or OPTION) are on the screen.
- The **ANT/VIDEO** button on the TV functions as the **ADV** button while any of the menu displays (PICTURE, AUDIO, SET UP or OPTION) are on the screen.

Watching Video Input

The **TV/VIDEO** button (or **ANT/VIDEO** button on the TV) is used to view the signals coming from other devices like VCR's or Video Disc Players connected to this TV.

Details are on page 45.

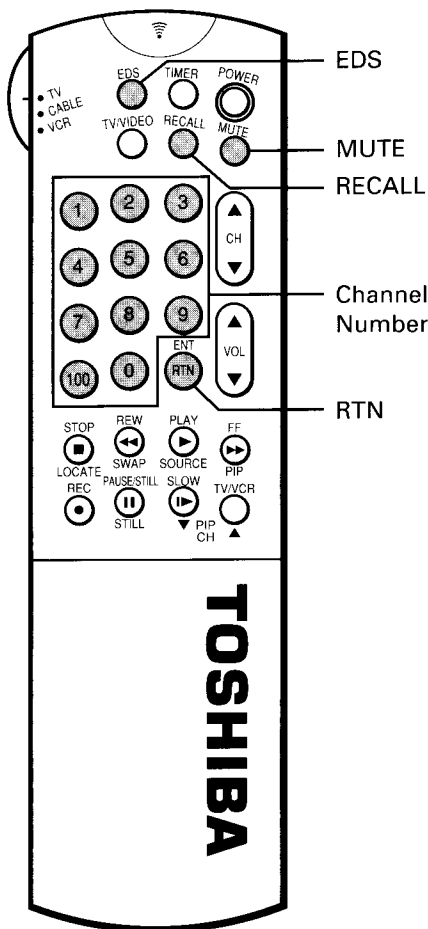
Auto-Power-Off

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.

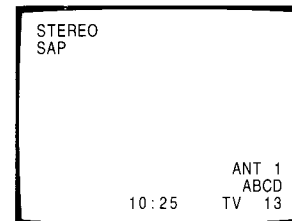
Convenient Remote Functions



Displaying on-screen information

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

- Antenna mode (when in TV mode)
- Channel number or VIDEO mode selected
- Channel caption (if previously preset)
- Time (if clock has been set)
- Stereo or SAP audio status

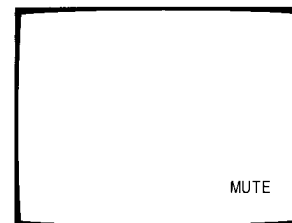


Muting the sound

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. To deactivate, press the MUTE button again. (This feature only functions when the Closed Caption mode is set to "OFF".)



Changing quickly between two channels

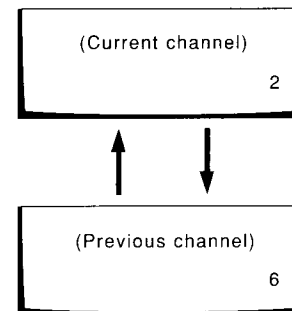
Press **RTN** to return to the last channel viewed.

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.

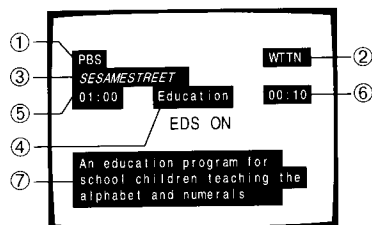
Each time you press **RTN**, the TV will switch back and forth between the two channels.



Displaying the EDS information

Press **EDS** to display the following EDS (Extended Data Service) information for about 30 seconds.

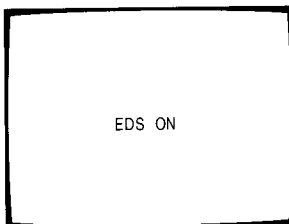
- Network name ①
- Call letters ②
- Program name ③
- Program type ④
- Program length ⑤
- Time remaining in show ⑥ (elapsed time)
- Program description ⑦



Some of the above information may not be displayed.

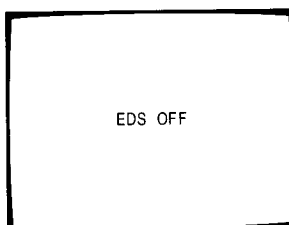
If the TV program you are watching does not include the EDS information

Only "EDS ON" will be displayed for about 4 seconds when you press **EDS**.



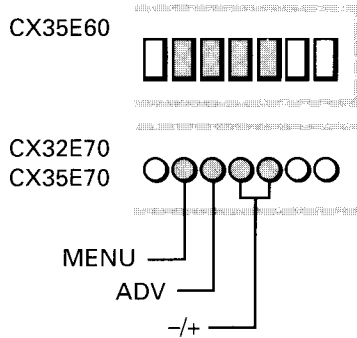
To erase the EDS display

Press EDS again.



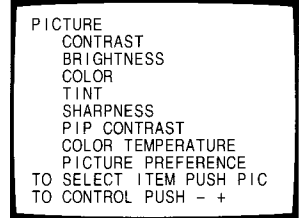
Adjusting the Picture

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

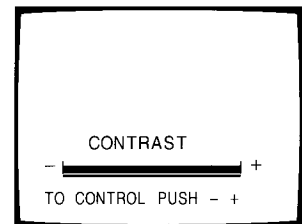


Adjusting the picture quality

- 1 Press **PIC** on the Remote Control (or **MENU** on the TV) to display the PICTURE menu.
- 2 Press **PIC** repeatedly (or **ADV** on the TV) until the item you want to adjust is displayed in magenta.
- 3 Press **-** or **+** to adjust the level.



Example: CONTRAST adjustment mode display



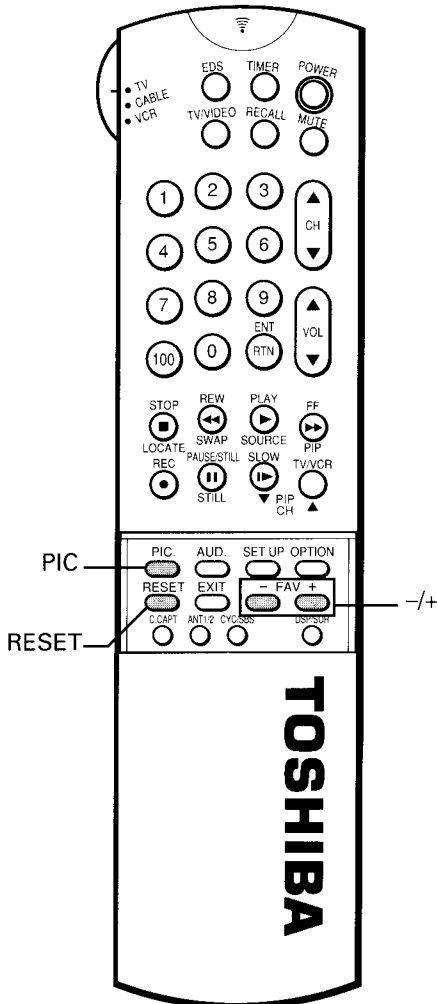
Press **PIC** or **MENU** (while the bar display remains on the screen) and the next item will appear in the PICTURE menu.

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

The above five PICTURE items you have adjusted will be stored in the MEMORY of the PICTURE PREFERENCE function (See page 25.)

To reset the picture adjustments

Press **RESET**. (See page 26 for details.)

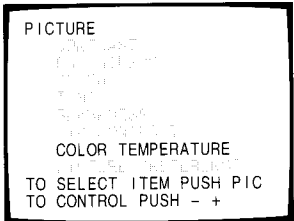


Note: The "PIP CONTRAST" function is explained on page 31.

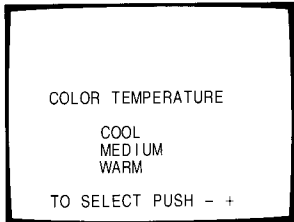
Selecting the color temperature

These selections adjust differences between the blue and red tones of the picture.

1-2 Select "COLOR TEMPERATURE" following the steps 1 and 2 on the previous page.



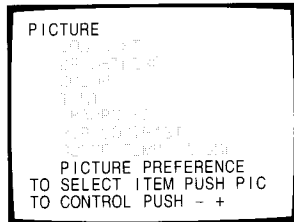
3 Press - or + until the mode you want is displayed in magenta. Choose between flesh tones that are COOL, MEDIUM and WARM in order.



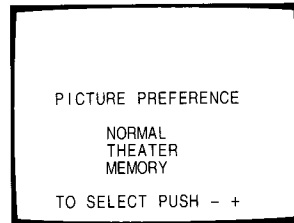
Selecting the picture preference function

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

1-2 Select "PICTURE PREFERENCE" following the steps 1 and 2 on the previous page.



3 Press - or + until the mode you want is displayed in magenta.

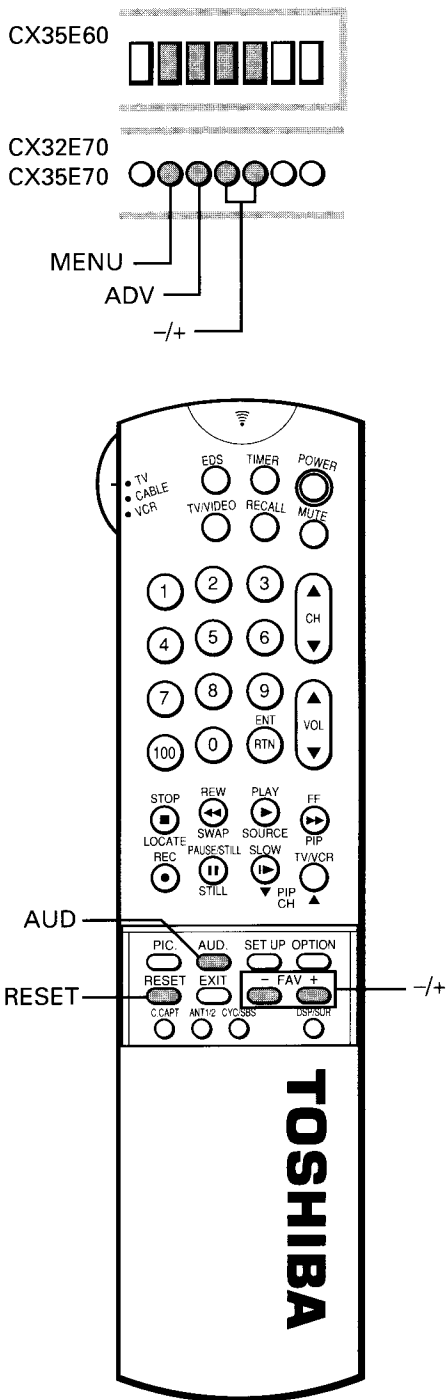


Mode	Picture quality
NORMAL	The picture quality preset at the factory
THEATER	Soft and moody picture
MEMORY	The picture quality you set (First follow page 24.)

Note: When you press the RESET button, the TV's setting prior to hitting RESET will remain stored in MEMORY mode until another Picture adjustment is made.

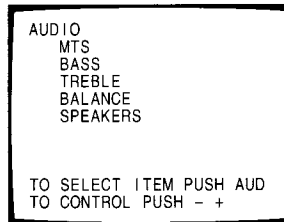
Adjusting the Sound

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

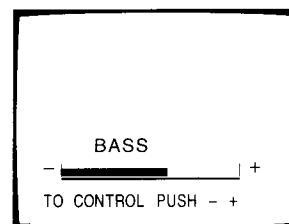


Adjusting the sound quality

- 1 Press **AUD** on the Remote Control (or **MENU** on the TV) to display the AUDIO menu on the screen.
- 2 Press **AUD** repeatedly (or **ADV** on the TV) until the item you want to adjust is displayed in magenta.
- 3 Press **-** or **+** to adjust the level.



Example: BASS adjustment mode display



Press **AUD** or **MENU** (while the bar display remains on the screen) and the next item will appear in the AUDIO menu.

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

RESET button (on the Remote Control)

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

Press **RESET**.

The RESET button also performs the following adjustments.

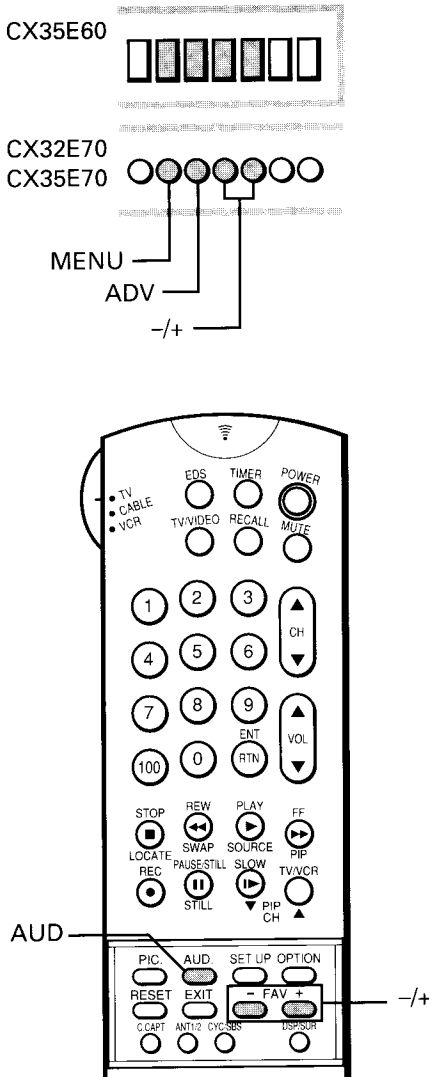
- COLOR TEMPERATUTE COOL
- PICTURE PREFERENCE NORMAL
- NOISE REDUCTION OFF
- PIP CONTRAST Maximum setting



Note: The "MTS" and "SPEAKERS" functions are explained on pages 27 and 49.

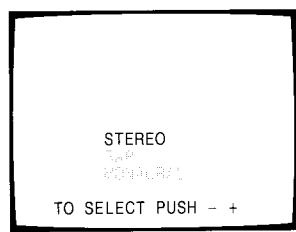
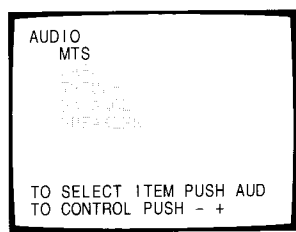
Selecting Stereo/SAP Broadcasts

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.



Listening to stereo sound

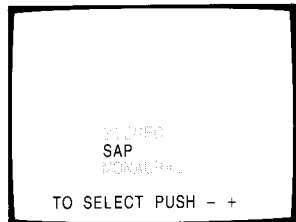
- 1 When the TV receives a stereo (or SAP) broadcast, the word "STEREO" (or "SAP") is displayed on the screen whenever the TV is turned on, a channel is selected, or the RECALL button is pressed.
- 2 Press **AUD** on the Remote Control (or **MENU** on the TV) to display the AUDIO menu on the screen.
- 3 Press **AUD** repeatedly (or **ADV** on the TV) until "MTS" is displayed in magenta.
- 4 Press - or + until "STEREO" is displayed in magenta. If a stereo broadcast is received, "STEREO" will be displayed in yellow.



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

Listening to second language

- 1-3 Follow the above steps 1 to 3.
- 4 Press - or + until "SAP" is displayed in magenta. You will hear only the second language from the left and right speakers.



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

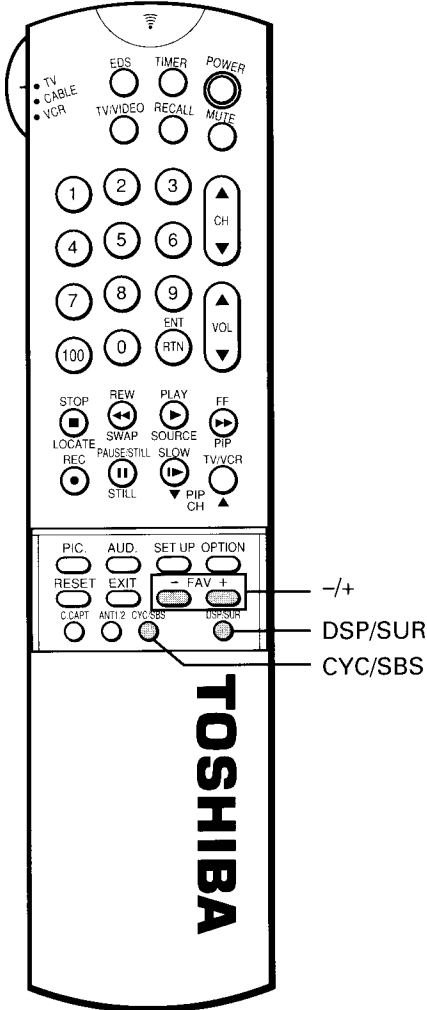
- Notes:**
- Be sure you have selected the STEREO mode if broadcast is in stereo.
 - "MTS" in the AUDIO menu does not function in the VIDEO mode.

BASIC OPERATION

Adjusting the Sound / Selecting Stereo/SAP Broadcasts

Enhancing the Surround Sound Effect

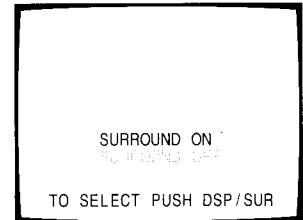
The Surround function expands the audio listening field wider and deeper than you would believe possible from a TV's speakers. This function processes stereo signals from a TV broadcast or VIDEO input. The Sub-Bass System allows you to improve bass-performance (even when the sound volume is low).



Activating the Surround function

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

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



The Surround function has now been activated.

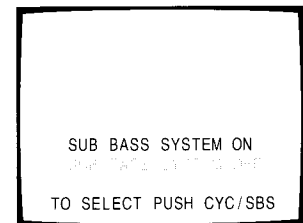
- To deactivate the Surround**
Select "SURROUND OFF" in step 2 above.

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

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

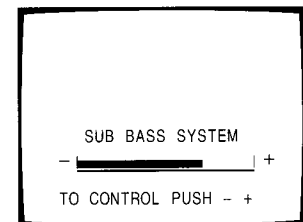
- 1 Press **CYC/SBS** on the Remote Control to call up the Sub-Bass System ON/OFF display.

Press **CYC/SBS** until "SUB BASS SYSTEM ON" is displayed in magenta.



- 2 Press - or + while the SBS ON/OFF 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.



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

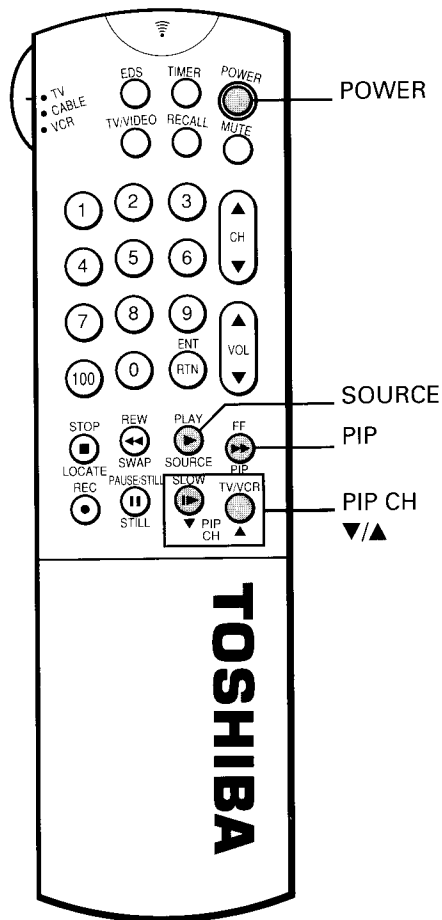
Note on the Sub-Bass System
The Sub-Bass System does not operate through the "VARIABLE AUDIO OUT" jacks. (See page 49.) However, the above on-screen displays will appear when the buttons are pressed.

- To deactivate the Sub-Bass System**
Select "SUB BASS SYSTEM OFF" in step 1 above.

Watching Picture-in-Picture

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.

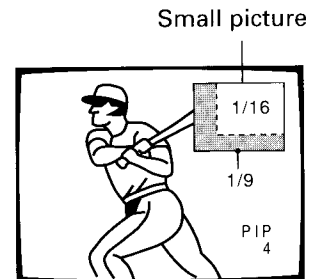
Note: The signal sources input through the ANT-2 terminal cannot be displayed as a small picture.



Displaying a small picture

To display a TV broadcast picture as a small picture

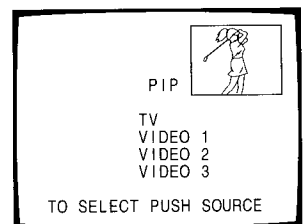
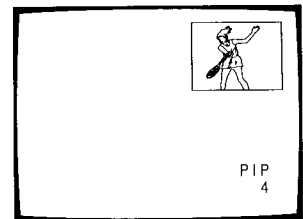
- 1 Turn on the TV and select the desired program.
- 2 Press **PIP** once to display a small picture. The 1/9 size window picture will appear. If you press **twice**, the 1/16 size window picture will appear.
- 3 Press **PIP CH** ▼/▲ to select the desired program for the small picture.
- 4 To turn off the small picture, press **PIP** again.



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

Connect external source equipment for the small picture. (For connection, see pages 45-47.)

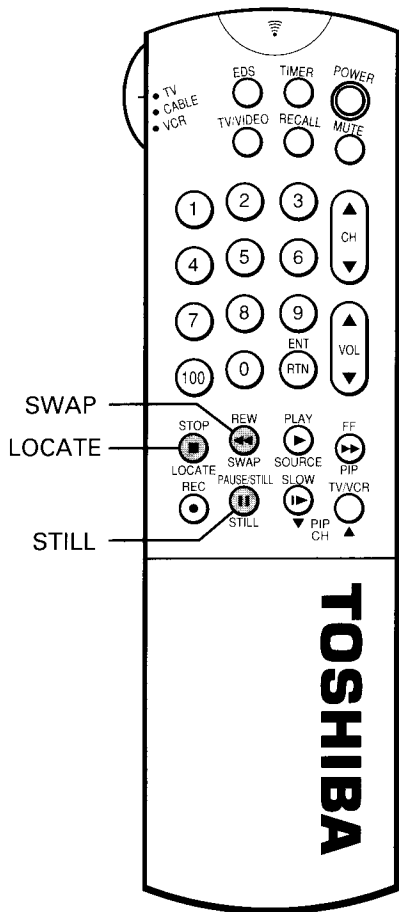
- 1 Turn on the TV and select the desired program.
- 2 Press **PIP** to display a small picture.
- 3 Press **SOURCE** repeatedly to select the input source (TV, VIDEO 1, VIDEO 2 or VIDEO 3) for the small picture. The selected source will be displayed in magenta.



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.

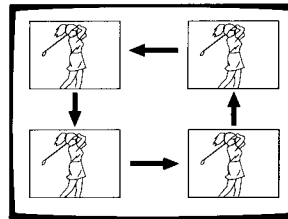
Watching Picture-in-Picture (Continued)



Using advanced functions

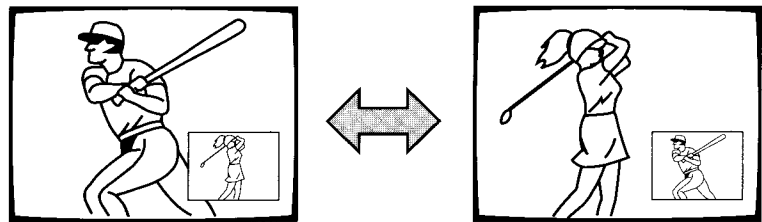
To change the position of the small picture

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



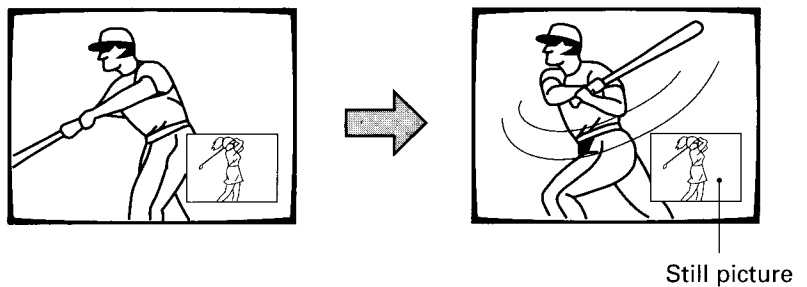
To switch the main and small picture

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



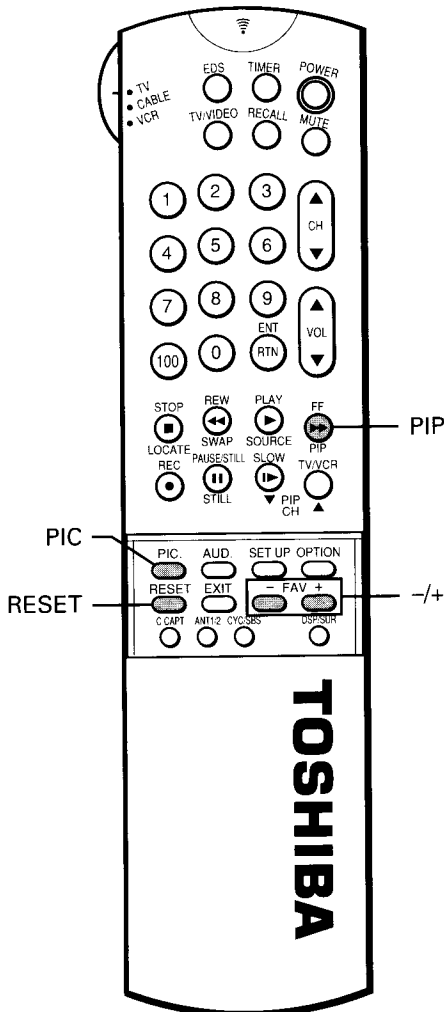
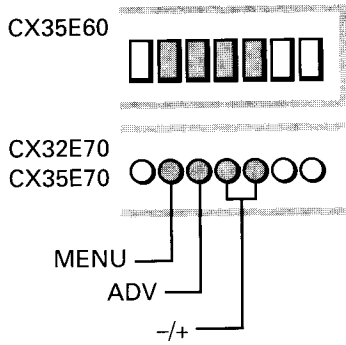
To freeze the small picture

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.

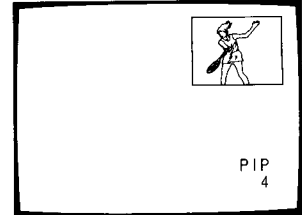


Adjusting the picture performance of the small picture

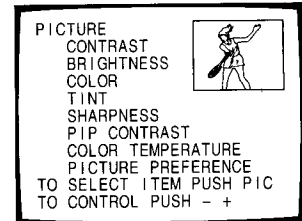
To adjust the contrast of the small picture



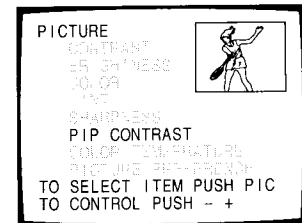
1 Press **PIP** to display a small picture.



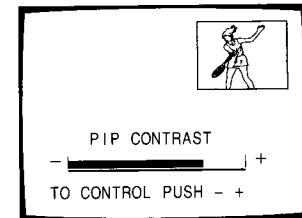
2 Press **PIC** on the Remote Control (or **MENU** on the TV) to display the PICTURE menu.



3 Press **PIC** repeatedly (or **ADV** on the TV) until "PIP CONTRAST" is displayed in magenta.



4 Press **-** or **+** to adjust the contrast level of the small picture.

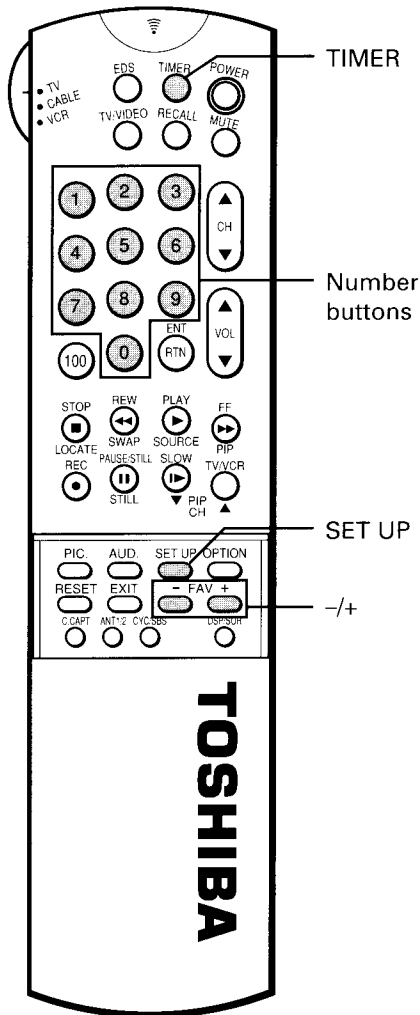


Note: When you press the **RESET** button, your adjustment will automatically be set to the factory-preset level.

CAUTION:

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

Setting the Off-Timer (Sleep Timer)



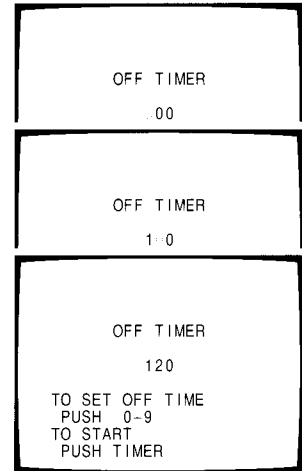
Note: To display the time remaining, press **TIMER** once. The remaining time will be displayed on the screen. To close the display, press **TIMER** twice.

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** to select the TIMER mode. The first digit will blink.
- 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.



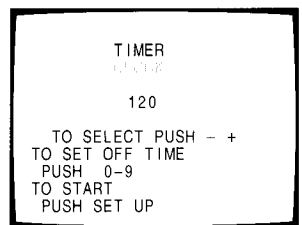
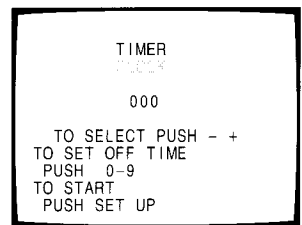
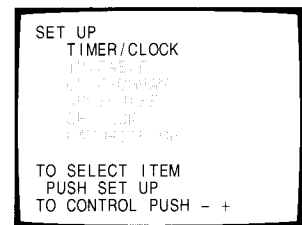
To cancel the setting

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.

- 1 Press **SET UP** on the Remote Control to display the SET UP menu on the screen.
- 2 Press **SET UP** repeatedly until "TIMER/CLOCK" is displayed in magenta.
- 3 Press - or + until "TIMER" is displayed in magenta in the TIMER mode.
- 4 Press two **Number** buttons to enter the correct time.

Example: 120 minutes
Press 1, then 2.
- 5 Press **SET UP** to start the off-timer.



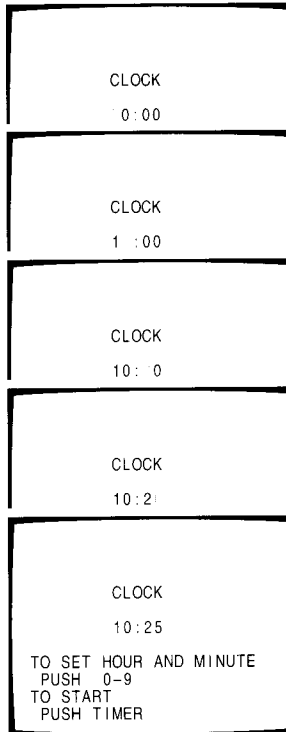
Setting the Clock

Setting the clock

- 1 Press **TIMER** twice to select the **CLOCK** mode.
The first digit will blink.
- 2 Press four **Number** buttons to enter the correct time, after each number position starts to blink.

Example: To set 10:25 p.m.
Press 1, 0, 2 and 5.

● The clock operates on a 12-hour cycle.
- 3 Press **TIMER** to start the clock.
The display color will change from magenta to cyan, then the display will go off.



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

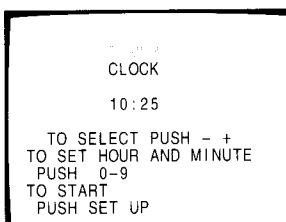
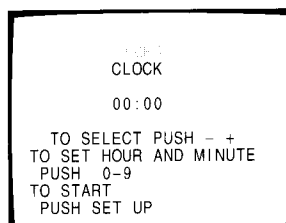
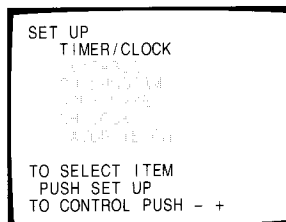
To monitor the time

Press **RECALL**.

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

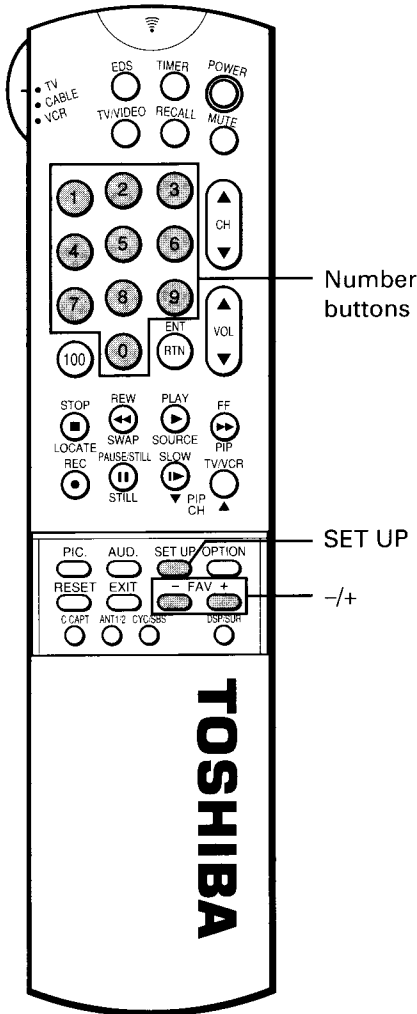
- 1 Press **SET UP** on the Remote Control to display the **SET UP** menu on the screen.
- 2 Press **SET UP** repeatedly until "TIMER/CLOCK" is displayed in magenta.
- 3 Press **-** or **+** until "CLOCK" is displayed in magenta in the **CLOCK** mode.
- 4 Press four **Number** buttons to enter the correct time.

Example: To set 10:25 p.m.
Press 1, 0, 2 and 5.
- 5 Press **SET UP** to start the clock.



Locking Channels

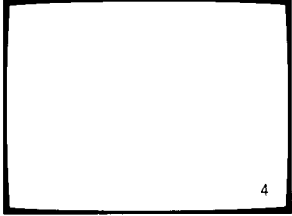
With this function you can lock out specific channels by entering your own 4-digit code. The TV will not be able to tune to those channel for the next 24 hours, unless you enter the code. This TV has 8 memory spaces total, 4 for the TV mode and 4 for CABLE mode.



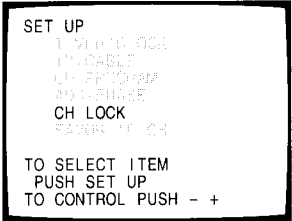
Locking out channels

1 Select a channel you want to lock out.

Example: channel 4

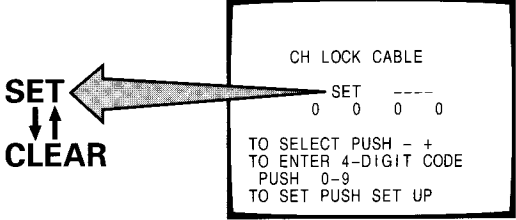


2 Press **SET UP** on the Remote Control to display the SET UP menu on the screen.



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

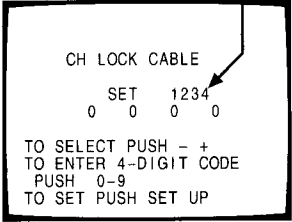
4 Press - or + to call up the channel lock adjustment display shown below. Each time you press the button, you are guided between "SET" and "CLEAR". Select "SET"



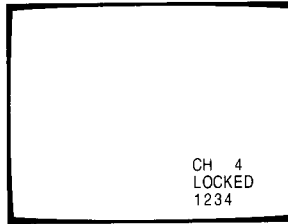
5 Press **Number** buttons (0 - 9) to enter a 4-digit code. The numbers you enter will replace the dashes in the display. **Pick a number that is easy to remember.**

Example: To enter "1234"
Press 1, 2, 3 and 4 in order.

1 - - - → 1 2 - - → 1 2 3 - → 1 2 3 4



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



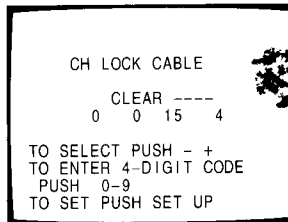
- 7** Repeat steps 1 to 6 for other channels.
This TV has 4 memory spaces total for the TV mode and CABLE mode respectively.

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

- 8** Select another channel, before turning off the TV.

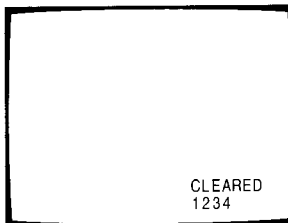
Unlocking channels

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

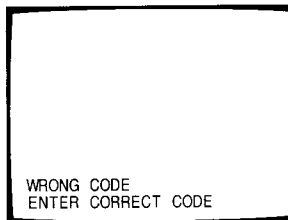


- 2** Enter the 4-digit code used to lock out the channels with the Number buttons.

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



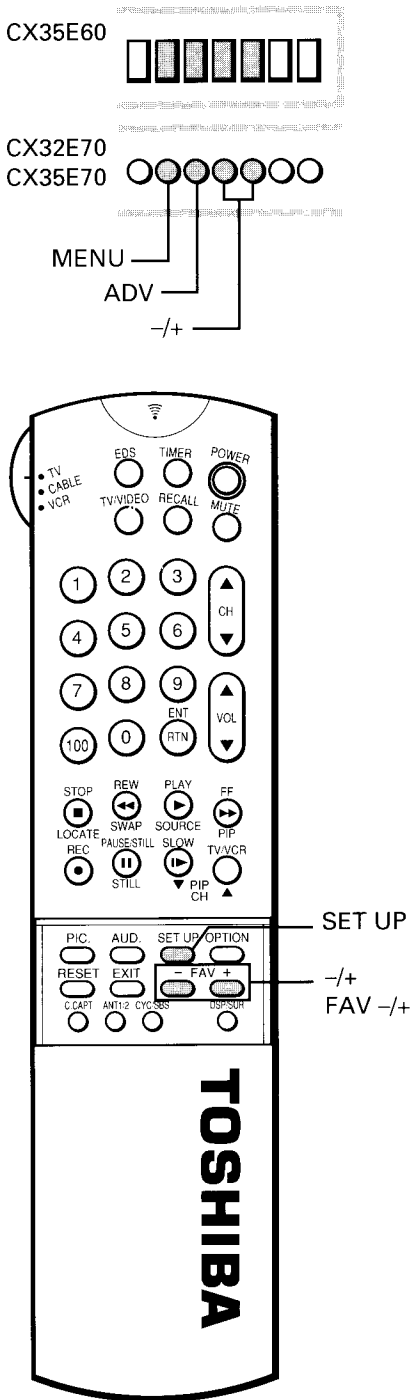
If a wrong code has been entered
These messages appear. Try to enter the correct code again.



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

Programming Your Favorite Channels

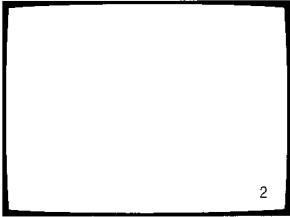
The Favorite Channel Programming feature allows you to program up to 12 of your favorite channels. Once programmed, you can use the FAV $-/+$ buttons on the Remote Control to scan through only your favorite channels, skipping other channels you do not normally view. You can use the CHANNEL $\blacktriangle/\blacktriangledown$ buttons to scan through all the channels you programmed in the TV's memory.



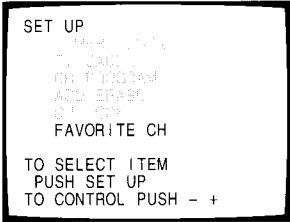
Programming your favorite channels

1 Select a channel you want to program.

Example: channel 2



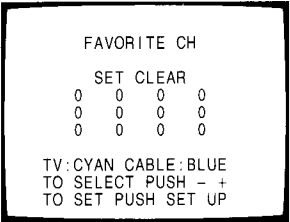
2 Press **SET UP** on the Remote Control (or **MENU** on the TV) to display the SET UP menu on the screen.



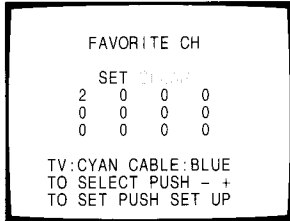
3 Press **SET UP** repeatedly (or **ADV** on the TV) until "FAVORITE CH" is displayed in magenta.

4 Press $-$ or $+$ to display FAVORITE CH menu. Each time you press $-$ or $+$, you are guided between "SET" and "CLEAR".

Display "SET" in magenta.



5 Press **SET UP** (or **ADV** on the TV) until the channel number to be programmed ("2" in this example) replaces "0" on the display.



6 Repeat steps 1 to 5 for other channels.

Selecting your favorite channels

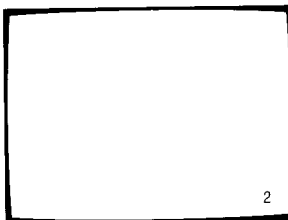
To select your favorite channels you have programmed, use the **FAV $-/+$** buttons on the Remote Control instead of using the CHANNEL $\blacktriangle/\blacktriangledown$ buttons.

Note: The FAV $-/+$ buttons cannot function if you have not programmed your favorite channels.

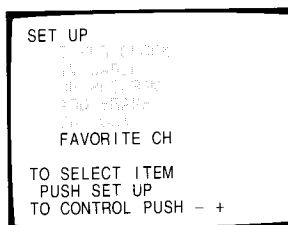
Clearing your favorite channels

- 1 Select a favorite channel you want to clear.

Example: channel 2



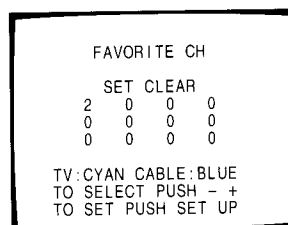
- 2 Press **SET UP** on the Remote Control (or **MENU** on the TV) to display the SET UP menu on the screen.



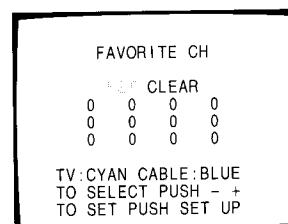
- 3 Press **SET UP** repeatedly (or **ADV** on the TV) until "FAVORITE CH" is displayed in magenta.

- 4 Press - or + to display FAVORITE CH menu. Each time you press - or +, you are guided between "SET" and "CLEAR".

Display "CLEAR" in magenta.

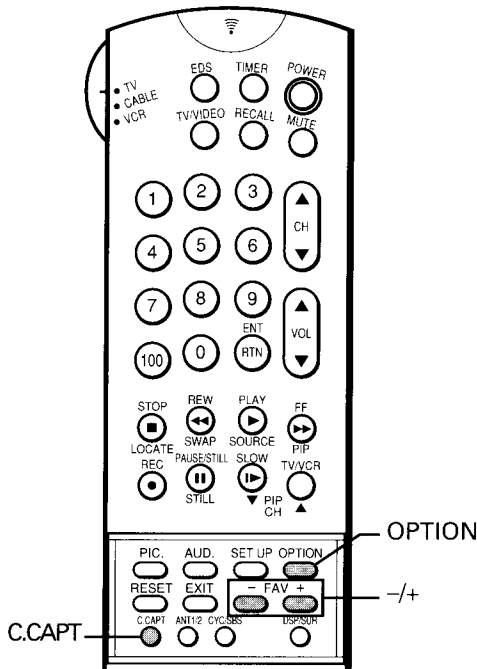
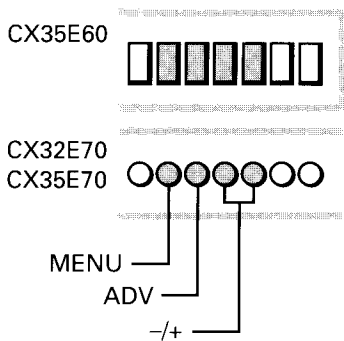
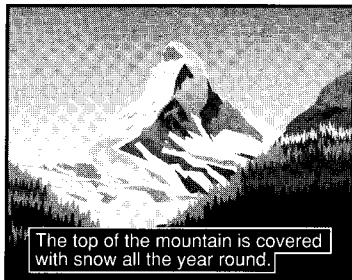


- 5 Press **SET UP** (or **ADV** on the TV) until the channel number to clear ("2" in this example) is erased from the display.



- 6 Repeat steps 1 to 5 for other channels.

Using Closed-Captioned Function

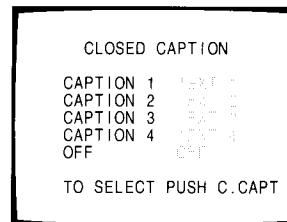


Viewing captions

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

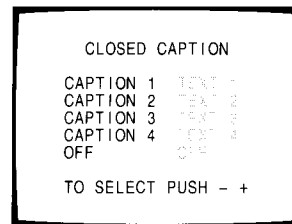
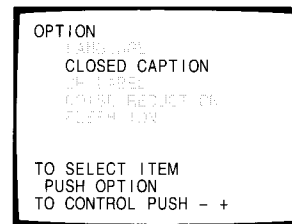
- 1 Select the desired program.
- 2 Press **C.CAPT** on the Remote Control to call up the CLOSED CAPTION display.

Press **C.CAPT** repeatedly until "CAPTION 1", "CAPTION 2", "CAPTION 3" or "CAPTION 4" is displayed in magenta. Select "CAPTION 1" for a transcription of the primary language in your area. Select "CAPTION 3" for captioning information usually of secondary languages. "CAPTION 2" or "CAPTION 4" carries Closed Captioning but not necessarily in the same time frame as the sound from the program.



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

- 1 Press **OPTION** on the Remote Control (or **MENU** on the TV) to display the OPTION menu on the screen.
- 2 Press **OPTION** repeatedly (or **ADV** on the TV) until "CLOSED CAPTION" is displayed in magenta.
- 3 Press **-** or **+** to select "CAPTION 1", "CAPTION 2", "CAPTION 3" or "CAPTION 4".



To deactivate this feature

Select "OFF" in the CLOSED CAPTION display.

Note:

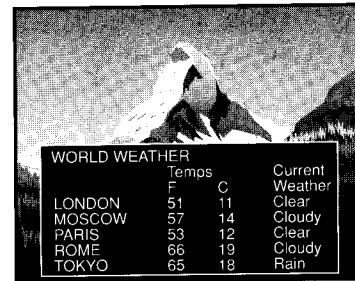
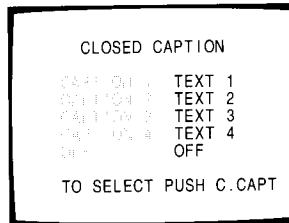
- A closed-captioned signal may not be decoded in the following situations.
- When a video tape has been dubbed.
 - When the signal reception is weak.
 - When the signal reception is non-standard.

Viewing text

Text is information that is presented using from one half to all of the 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.

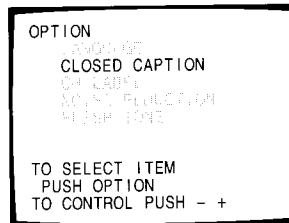
- 1 Select the desired program.
- 2 Press **C.CAPT** on the Remote Control to call up the CLOSED CAPTION mode display.

Press **C.CAPT** repeatedly until "TEXT 1", "TEXT 2", "TEXT 3" or "TEXT 4" is displayed in magenta.



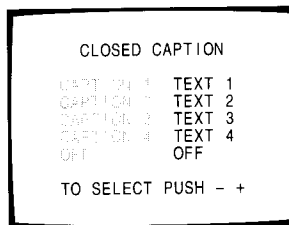
You can also select this feature using the on-screen menu function.

- 1 Press **OPTION** on the Remote Control (or **MENU** on the TV) to display the OPTION menu on the screen.



- 2 Press **OPTION** repeatedly (or **ADV** on the TV) until "CLOSED CAPTION" is displayed in magenta.

- 3 Press - or + to select "TEXT 1", "TEXT 2", "TEXT 3" or "TEXT 4".



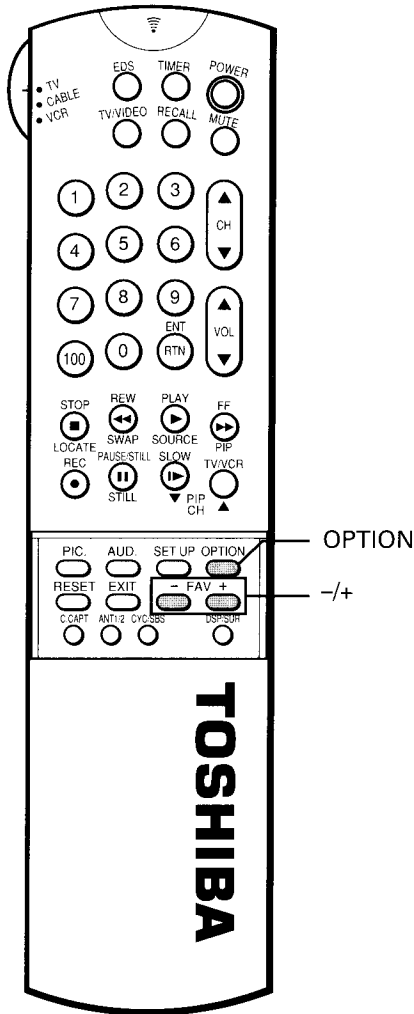
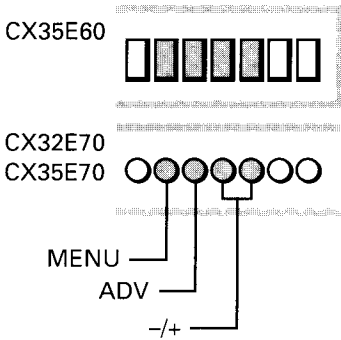
To deactivate this feature

Select "OFF" in the CLOSED CAPTION 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.

Labeling Channels

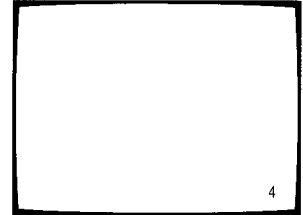
This feature allows you to enter a 4 letter channel identifier of your choice that will appear over the channel number display. The labeling can be anything you want (for example the station call letters).



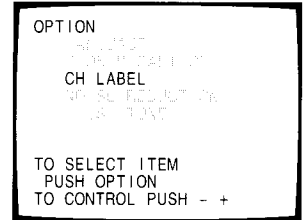
Programming the channel labels

1 Select a channel you want to label.

Example: To assign "ABCD" to channel 4.

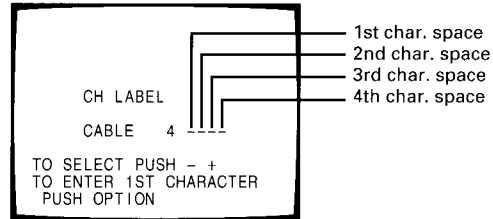


2 Press **OPTION** on the Remote Control (or **MENU** on the TV) to display the OPTION menu on the screen.



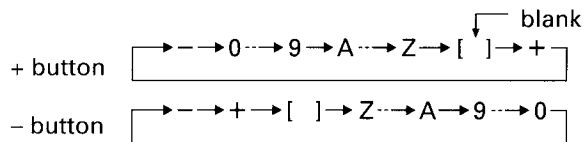
3 Press **OPTION** repeatedly (or **ADV** on the TV) until "CH LABEL" is displayed in magenta.

4 Press - or + to call up the CH LABEL display shown below on the screen.

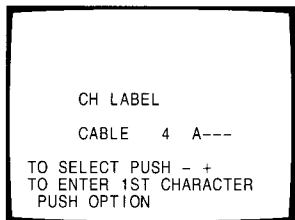


Letters of the alphabet, numbers and other graphic symbols are available for labeling.

Each time you press the - or + button, the displayed character will change in the following order.



5 Press - or + repeatedly until the 1st character ("A" in this example) appears in the 1st character space.



6 Press **OPTION** (or **ADV** on the TV) once to enter the 1st character and to advance to the next character space.

- 7** Repeat steps 5 and 6 to enter the 2nd, 3rd and 4th characters ("B", "C", "D" in this example). When the on-screen message at the right appears, the channel label has been stored in the memory.

```
CH LABEL
CABLE 4 ABCD
ENTERED
```

- 8** Repeat steps 1 through 7 for other channels. You will be able to apply labels to up to 32 channels. The label will appear when you turn the TV on, select a channel, or press the RECALL button.

```
ABCD
4
```

Clearing channel labels

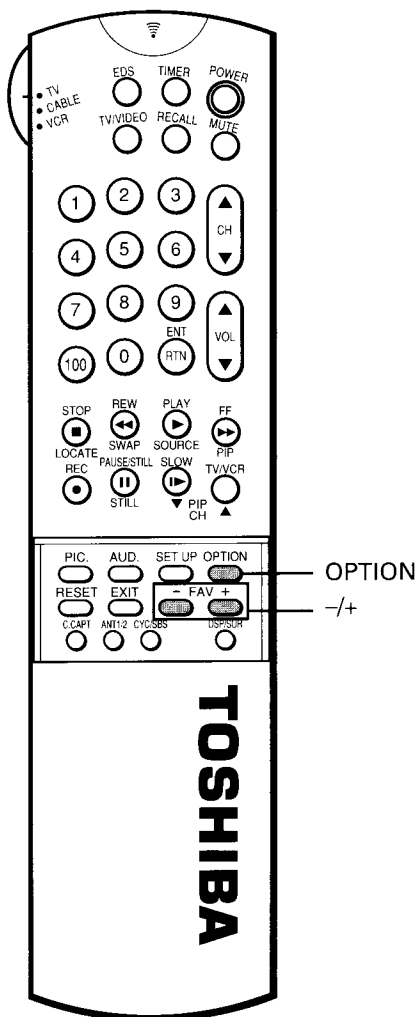
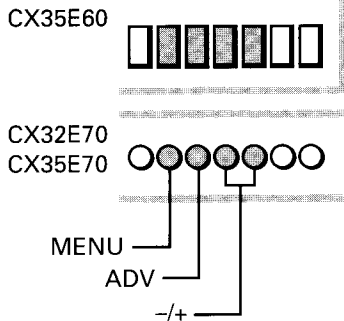
- 1** Select the channel which has the label you want to clear.
- 2-4** Follow steps 2-4 on the previous page to call up the CH LABEL mode display.

```
CH LABEL
CABLE 4 ABCD
TO SELECT PUSH - +
TO ENTER 1ST CHARACTER
PUSH OPTION
```

- 5** Enter "[blank]" or "-" in all character spaces.

```
CH LABEL
CABLE 4 ----
TO SELECT PUSH - +
TO ENTER 1ST CHARACTER
PUSH OPTION
```

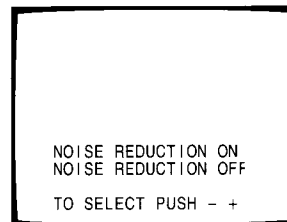
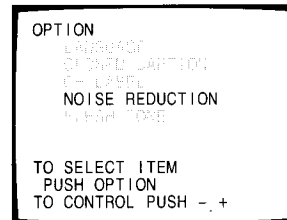
Activating Noise Reduction/Flesh Tone Functions



Reducing picture noise

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

- 1 Press **OPTION** on the Remote Control (or **MENU** on the TV) to display the OPTION menu on the screen.
- 2 Press **OPTION** repeatedly (or **ADV** on the TV) until "NOISE REDUCTION" is displayed in magenta.
- 3 Press - or + until "NOISE REDUCTION ON" is displayed in magenta.

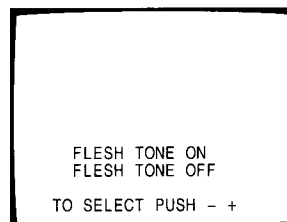
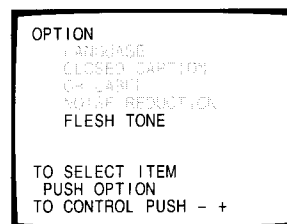


To deactivate this function
Select "NOISE REDUCTION OFF".

Activating flesh tone function

This function allows you to obtain natural flesh tone by correcting the reference of tint between TV stations.

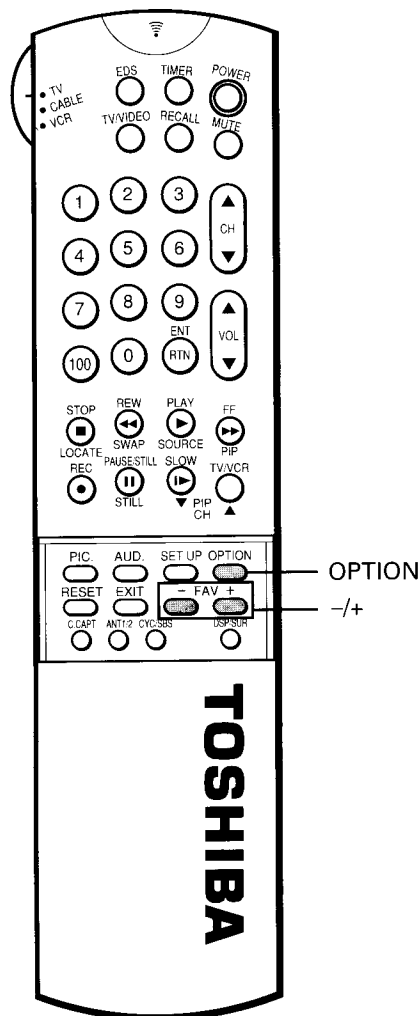
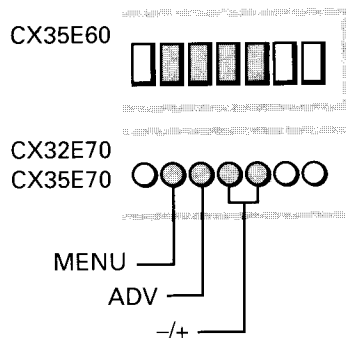
- 1-2 Select "FLESH TONE" following steps 1 and 2 above.
- 3 Press - or + until "FLESH TONE ON" is displayed in magenta.



To deactivate this function
Select "FLESH TONE OFF".

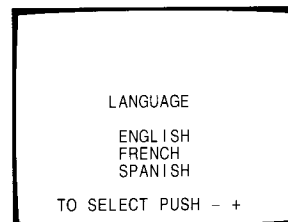
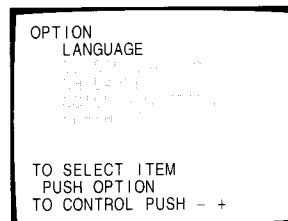
Changing On-Screen Display Language

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



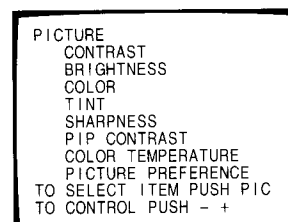
Selecting a language

- 1 Press **OPTION** on the Remote Control (or **MENU** on the TV) to display the **OPTION** menu.
- 2 Press **OPTION** repeatedly (or **ADV** on the TV) until "LANGUAGE" is displayed in magenta.
- 3 Press - or + until your desired language is displayed in magenta.

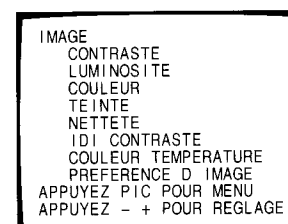


Example: PICTURE menu display

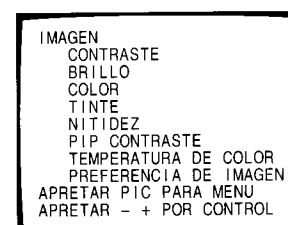
"ENGLISH"



"FRENCH"



"SPANISH"



Activating Noise Reduction/Flesh Tone Functions/
 Changing On-Screen Display Language

ADVANCED
 OPERATION

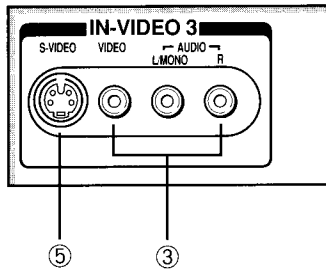
Monitor Panel

This TV set is equipped with S-VIDEO IN jacks, VIDEO/AUDIO IN jacks, VIDEO/AUDIO OUT jacks, VARIABLE AUDIO OUT jacks, AUDIO CENTER CHANNEL IN jacks and EXTERNAL SPEAKER terminals for connecting your desired video/audio equipment.

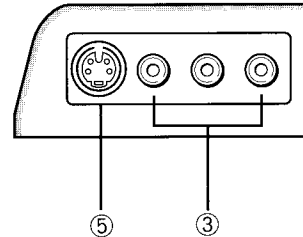
CX35E60

CX32E70/CX35E70

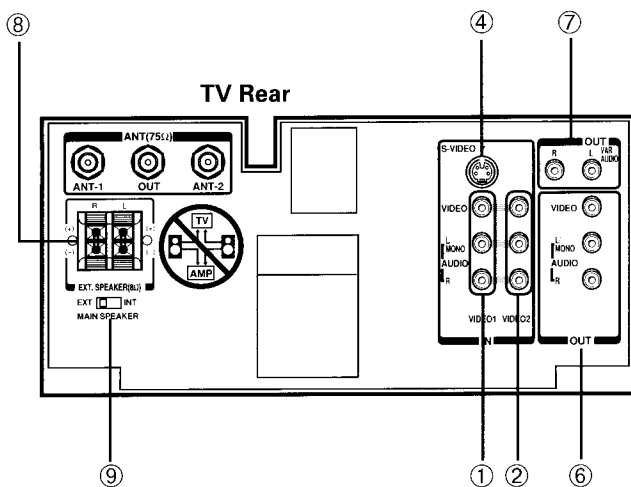
TV Front



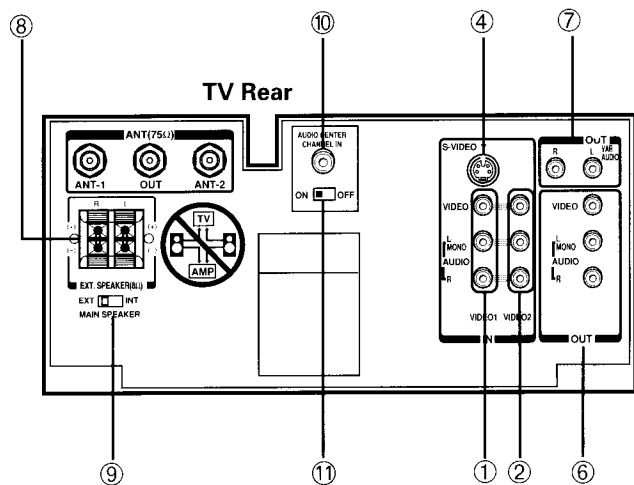
TV Front



TV Rear



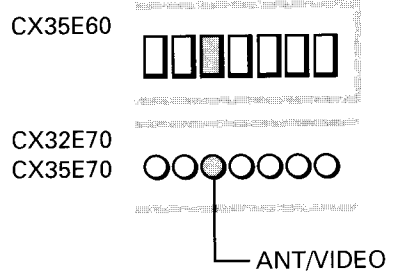
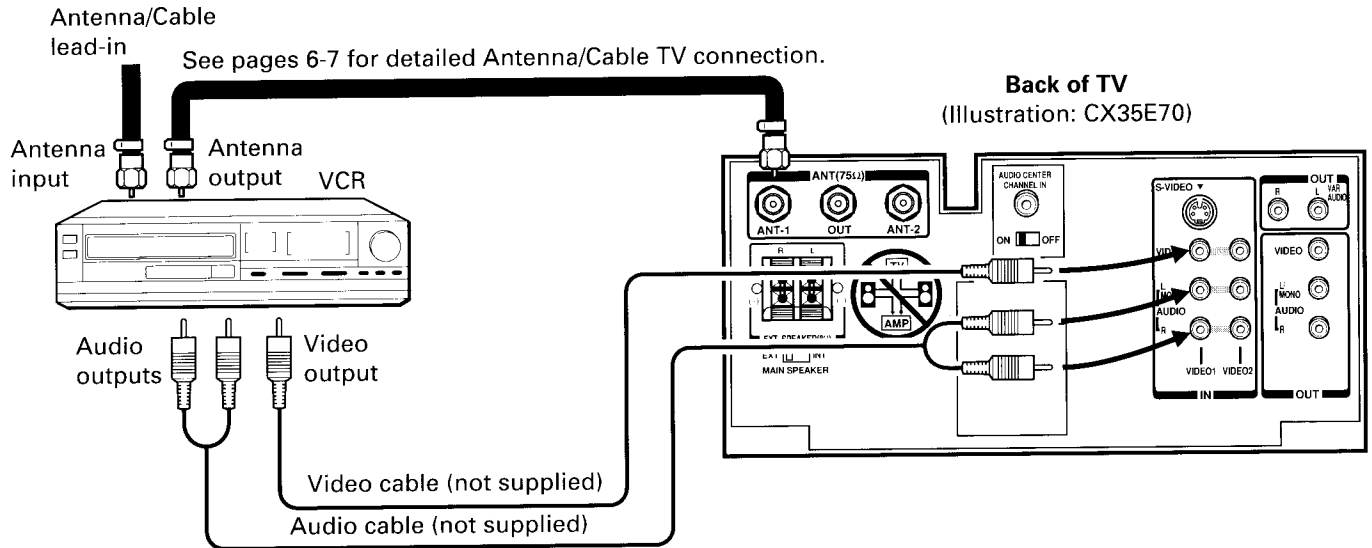
TV Rear



- ① ② **VIDEO 1/VIDEO 2/ VIDEO 3 IN Jacks** – provide for direct connection of video devices (VCR, video disc player, comcorder, etc.) with video/audio outputs. Connection details are on pages 45 and 47.
- ③ **VIDEO/AUDIO OUT Jacks** – provide fixed-level audio and video outputs from whatever is displayed on the screen. Connection details are on pages 48 and 49.
- ④ ⑤ **S-VIDEO IN Jacks** – provide for direct S-video connection from an **SVHS** VCR or a video disc player. The TV's VIDEO 1/3 audio jacks can also be used to connect the VCR's audio cables. Connection details are on pages 46 and 47.
- ⑥ **VIDEO/AUDIO OUT Jacks** – provide fixed-level audio and video outputs from whatever is displayed on the screen. Connection details are on pages 48 and 49.
- ⑦ **VARIABLE AUDIO OUT Jacks** – feed volume-controlled stereo audio out from whatever is displayed on the screen, allows connection of audio amplifier and lets you adjust sound level with TV's Remote Control. Connection details are on page 49.
- ⑧ **EXTERNAL SPEAKER Terminals** – provide for direct connection of external speakers. Connection details are on page 50
- ⑨ **MAIN SPEAKER Switch** – lets you turn off TV's built-in speakers so that sound will instead come through speakers connected to EXTERNAL SPEAKER terminals. See page 50 for details.
- ⑩ **AUDIO CENTER CHANNEL IN Jack** – provides for direct center channel connection from an audio receiver that delivers surround sound. Connection details are on page 51.
- ⑪ **AUDIO CENTER CHANNEL ON/OFF Switch** – lets you switch TV's built-in speakers to center channel speakers for the audio receiver connected to the AUDIO CENTER CHANNEL IN jack. See page 51.

Connecting a Standard VCR

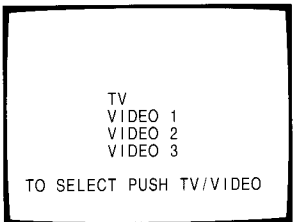
Connect VIDEO 1 or VIDEO 2 IN jacks on the TV rear panel to the video/audio output jacks of an installed VCR, Laser disk player, etc. for playback of video material.



Selecting video input source

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

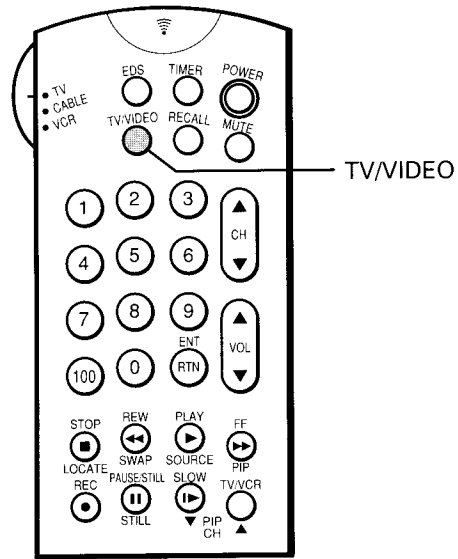
- 1 Turn the TV and VCR ON.
- 2 Press **TV/VIDEO** on the Remote Control (or **ANT/VIDEO** on the TV) to select the appropriate source. Each time you press the button, TV, VIDEO 1, VIDEO 2 or VIDEO 3 source will be selected in order.



- 3 Operate your VCR normally.

Notes:

- The VIDEO 2 IN jacks can also be used for connecting a second piece of video equipment with video/audio outputs. To view video from equipment connected to the VIDEO 2 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.

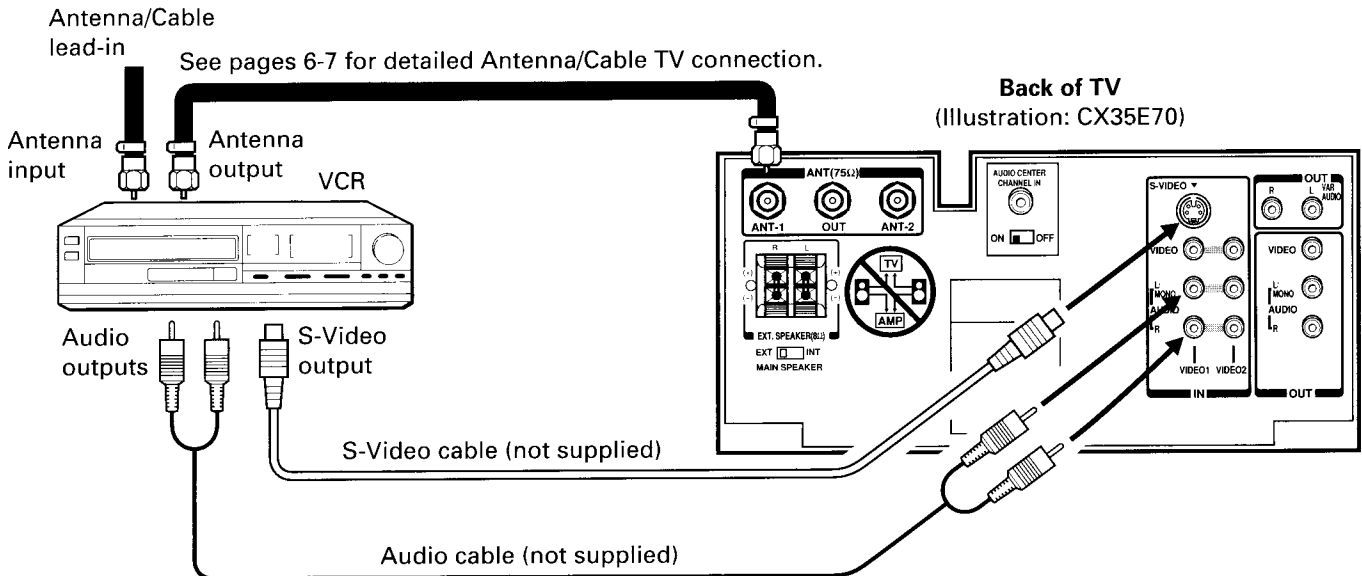


Monitor Panel/ Connecting a Standard VCR

EQUIPMENT CONNECTIONS

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.



Selecting video input source

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

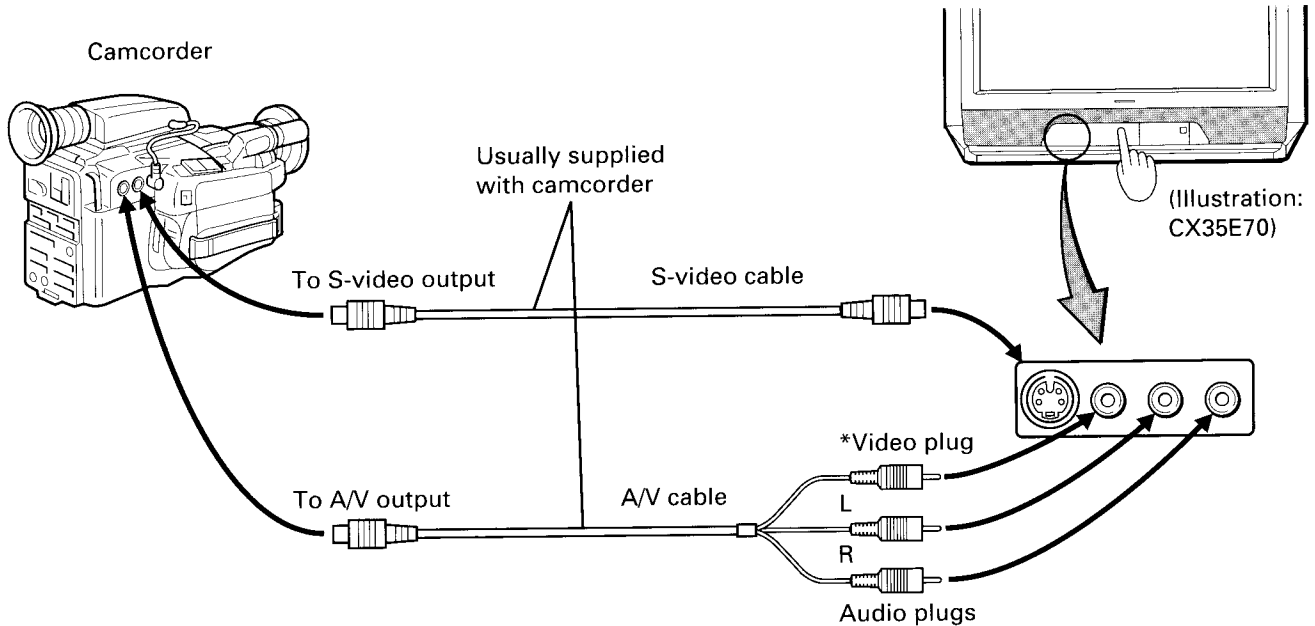
Notes:

- If you connect a monaural VCR, connect the audio output of the VCR to the L/MONO jack of the VIDEO 1 IN jacks on the TV set.
- 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.

Connecting a Camcorder

This connection allows you to play back tapes in the camcorder and watch them on the TV.

- If you have a camcorder with an S-video jack, Connect the S-video cable to the S-VIDEO jack of the VIDEO 3 IN jacks.
 - If you have a standard camcorder, connect the video cable to the VIDEO jack of the VIDEO 3 IN jacks.
- With either video connection, connect the audio cables.



Selecting video sources

To operate your TV and camcorder properly, refer to the instructions furnished with the connected camcorder.

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

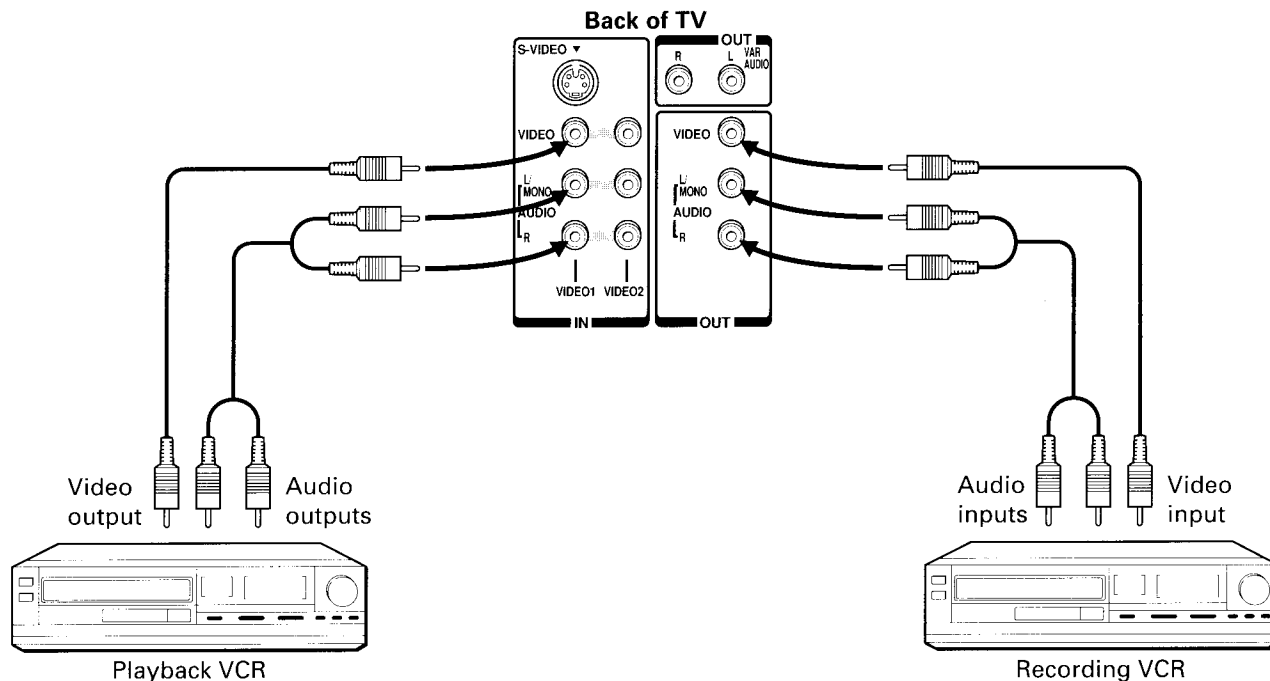
Notes:

- * When the S-video cable is connected to the S-VIDEO IN jack, the video plug does not have to be connected.
- If you connect a monaural camcorder, connect the audio output of the camcorder to the L/MONO jack of the VIDEO 3 IN jacks.

Dubbing/Editing Video Tapes Using 2 VCRs

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, VIDEO 2 or VIDEO 3) on the TV. Then connect the output jacks from the TV to the input jacks on the recording VCR.

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



Monitoring your dubbing/editing

- 1 Turn the TV and both VCR's ON.
- 2 Press **TV/VIDEO** on the Remote Control (or **ANT/VIDEO** on the TV) to select "VIDEO 1".
- 3 Set the recording VCR to record mode and the playback VCR to play.
- 4 You can view the video signal from the playback VCR on the TV screen while dubbing it onto the recording VCR.

CAUTION:

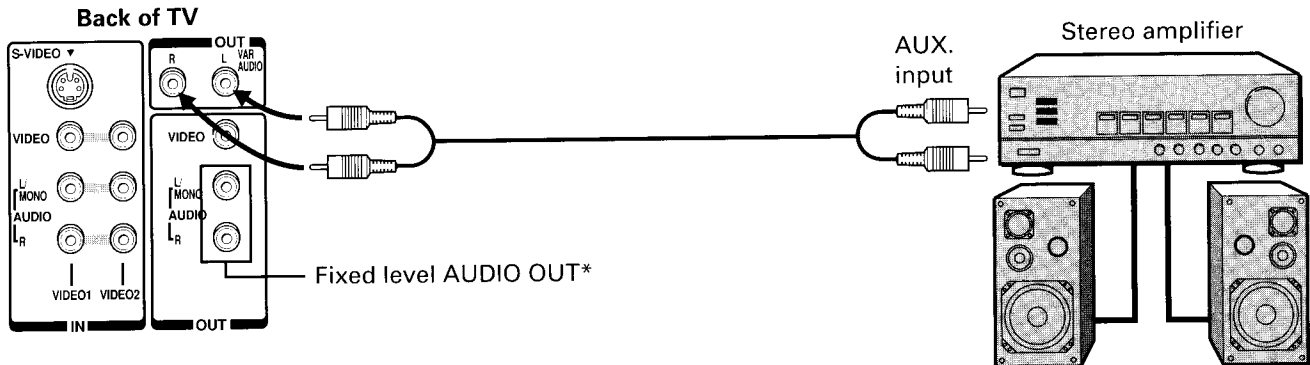
The unauthorized recording of television programs, video tapes and other materials may infringe upon the provisions of the copyright laws.

Notes:

- The input switch of the VCR is normally in the TV position. Change the switch of the recording VCR to the LINE or CAMERA position 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 through the VIDEO OUT jack.

Connecting an Audio Amplifier

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



* The "fixed level" audio signal present at the AUDIO jacks of VIDEO/AUDIO OUT jacks is also ideal for connecting an audio cassette recorder (or amplifier) to record audio from the TV. This constant audio signal is not affected by pressing the VOLUME buttons on the TV or the TV's Remote Control.

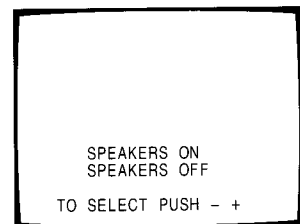
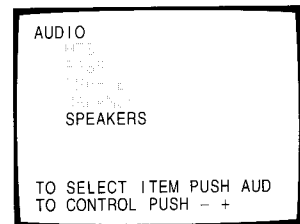
Preparing for use

- 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).

Turning off the built-in speakers

- 1 Press **AUDIO** on the Remote Control (or **MENU** on the TV) to display the AUDIO menu on the screen.
- 2 Press **AUDIO** repeatedly (or **ADV** on the TV) until "SPEAKERS" is displayed in magenta.
- 3 Press **-** or **+** until "SPEAKERS OFF" is displayed in magenta.

The built-in speakers will be turned off.



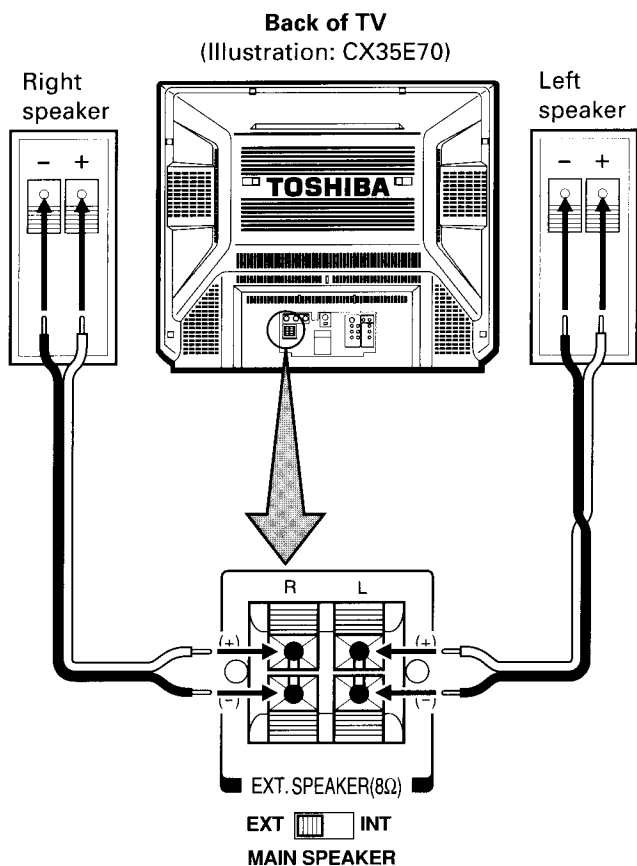
To turn on the built-in speakers

Select "SPEAKERS ON" in step 3 above.

Connecting External Speakers

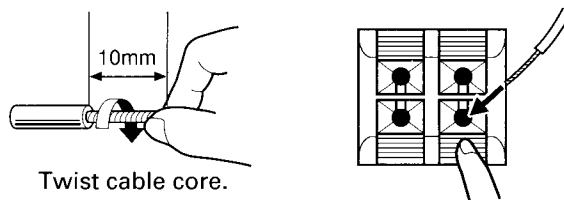
You can connect speakers to the EXTernal SPEAKER terminals on the TV set to enhance sound from the TV.

Before connecting the speakers, turn the TV off.

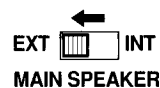


Preparing for use

- 1 Connect the speaker cables.
While pressing the clamp, insert the cable core. Then, release the clamp.
Match the right and left channels and +/- polarities of the TV speaker terminals with the external speaker

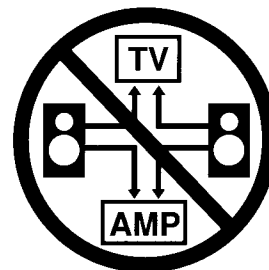


- 2 Set the MAIN SPEAKER switch to "EXT".
The built-in TV speakers are switched off.



CAUTIONS:

- Do not connect external speakers to more than one audio source at a time. You will damage your equipment if you connect the same speaker system to both the TV and amplifier.
- Use only external speakers with an impedance rating of 8 ohms and input power of 10 W or greater.



Using the TV Speakers as Center Channel Speakers

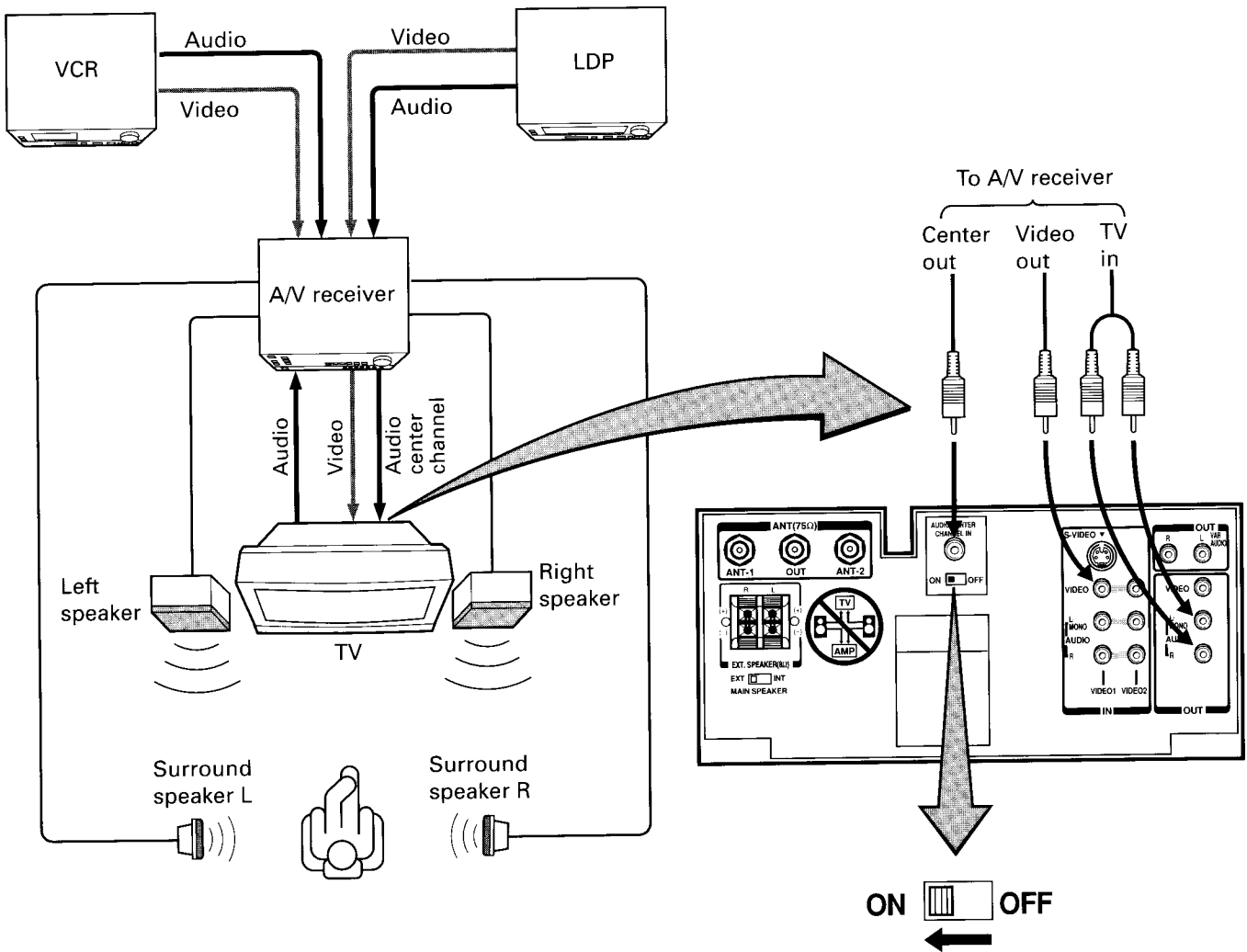
(CX32E70 & CX35E70 ONLY)

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

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

Note: Make sure that the TV is turned off, before connecting or disconnecting an audio cable to the CENTER CHANNEL IN jack.

Connection example — connecting an A/V receiver



Notes

- Refer to the instructions furnished with the connected equipment.
- * "Dolby Pro-Logic" is a trademark of Dolby Laboratories Licensing Corporation.

When the AUDIO CENTER CHANNEL ON/OFF switch is in the "ON" position, the TV speakers will function only as the center channel speakers.

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

If you use the TV speakers as normal speakers, set this switch to the "OFF" position.

Cleaning and Care

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

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:	CX35E60: 127W (average) CX32E70: 128W (average) CX35E70: 126W (average)
AUDIO POWER:	10W + 10W
SPEAKER TYPE:	Two 2-3/4 x 5-1/8 inches (70 x 130mm) oval
VIDEO/AUDIO TERMINALS:	S-VIDEO INPUT (VIDEO 1/VIDEO 3) Y-INPUT: 1V(p-p), 75 ohm, negative sync. C-INPUT: 0.286V(p-p) (burst signal), 75 ohm VIDEO 1/VIDEO 2/VIDEO 3 INPUT VIDEO: 1V(p-p), 75 ohm, negative sync. AUDIO: 150mV(rms) (30% modulation, 47k ohm) VIDEO/AUDIO OUTPUT VIDEO: 1V(p-p), 75 ohm, negative sync. AUDIO: 150mV(rms) (30% modulation, 4.7k ohm) VARIABLE: AUDIO OUTPUT 0-350mV(rms) (30% modulation, 4.7k ohm) AUDIO CENTER CHANNEL INPUT (for CX32E70 and CX35E70 only) 1V(rms) (30% modulation, 10k ohm) EXTERNAL SPEAKER TERMINALS Accept speakers of impedance 8 ohm, input power 10W or greater
DIMENSIONS:	CX35E60; Width 34-31/64 inches (876mm) Height 31-19/64 inches (795mm) Depth 25-35/64 inches (649mm) CX32E70; Width 33-15/32 inches (850mm) Height 27-3/4 inches (705mm) Depth 22-41/64 inches (575mm) CX35E70; Width 36-39/64 inches (930mm) Height 30-47/64 inches (780.5mm) Depth 25-19/32 inches (650mm)
MASS:	CX35E60; 171.9lbs (78.0kg) CX32E70; 143.2lbs (65.0kg) CX35E70; 171.5lbs (77.8kg)
SUPPLIED ACCESORIES	Remote Control with 2 "AA" size batteries Antenna adaptor

Design and specifications are subject to change without notice.

Before Calling Service Personnel

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

Symptoms	Check	Adjustments
● No picture, no sound	<ul style="list-style-type: none"> ● Be sure power cord is plugged in. ● May be station trouble. ● Check antenna connections. ● Check antenna for broken wires. 	<ul style="list-style-type: none"> ● Press POWER button. ● Try another channel.
● No sound, picture OK	<ul style="list-style-type: none"> ● May be station trouble. ● Check if SPEAKERS ON/OFF function (page 49), MAIN SPEAKER switch (page 50) or AUDIO CENTER CHANNEL ON/OFF switch (page 51) is properly set. 	<ul style="list-style-type: none"> ● Try another channel. ● Adjust VOLUME.
● Poor sound, picture OK	<ul style="list-style-type: none"> ● May be station trouble. ● Check antenna connections. ● May be local interference from an appliance. 	<ul style="list-style-type: none"> ● Try another channel. ● Adjust VOLUME. ● Adjust BASS, TREBLE, or BALANCE control. ● Re-orient antenna.
<ul style="list-style-type: none"> ● Poor picture, sound OK ● Snowy picture ● Lines in picture ● Distorted picture ● Weak picture 	<ul style="list-style-type: none"> ● May be local interference from an appliance. ● Check antenna connections. ● Check antenna for broken wires. ● May be station trouble. 	<ul style="list-style-type: none"> ● Try another channel. ● Adjust BRIGHTNESS. ● Adjust CONTRAST. ● Adjust SHARPNESS. ● Re-orient antenna.
● Poor reception of broadcast channels	<ul style="list-style-type: none"> ● Check antenna connections. ● Check antenna for broken wires. ● If VCR is connected, check TV/VCR switch. 	<ul style="list-style-type: none"> ● Try another channel. ● Re-orient antenna.
● No UHF, VHF OK	<ul style="list-style-type: none"> ● Be sure TV/CABLE function (page 19) is in "TV" mode. 	
● Unable to select a certain channel	<ul style="list-style-type: none"> ● That channel may be locked out with CH LOCK function (page 34), or erased with the ADD/ERASE function (page 20). 	
● Multiple images (ghosts)	<ul style="list-style-type: none"> ● May be station trouble. ● Check antenna connections. 	<ul style="list-style-type: none"> ● Try another channel. ● Re-orient antenna.
● Poor color or No color	<ul style="list-style-type: none"> ● May be station trouble. ● Check antenna connections. ● Check antenna for broken wires. ● May be local interference from an appliance. ● Check if station is broadcasting in color. ● 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. 	<ul style="list-style-type: none"> ● Try another channel. ● Re-orient antenna. ● Adjust TINT. ● Adjust COLOR.
● No stereo or SAP sound from a known MTS broadcast	<ul style="list-style-type: none"> ● Check if MTS function is properly set. 	
● Remote control does not work	<ul style="list-style-type: none"> ● Check if TV/CABLE/VCR switch is properly set. ● Be sure power cord is plugged in. ● Check battery in Remote control. 	<ul style="list-style-type: none"> ● Change batteries.

Limited United States Warranty

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

Limited One (1) Year Warranty

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

Limited Two (2) Year Warranty of Picture Tube

TACP and THI further warrant the picture tube in this product against defects in materials or workmanship for a period of two (2) years after the date of original retail purchase. During this period, TACP and THI will replace a defective picture tube without charge to you, except that if a defective picture tube is replaced after one (1) year from the date of the original retail purchase, you pay labor charges involved in the replacement.

Owner's Manual and Registration Card

You should read this owner's manual thoroughly before operating this product. You should also insure that your name and address are on file as owner of a TACP/THI product by completing and mailing the enclosed registration card within ten days after you, or the person who has given you this product as a gift, purchased this product. This is one way to enable TACP/THI to provide you with

better customer service and improved products. Failure to return the card will not affect your rights under this warranty so long as you retain other proof of purchase such as a bill of sale.

Your Responsibility

The above warranties are subject to the following conditions:

- (1) You must retain your bill of sale or provide other proof of purchase.
- (2) All warranty servicing of this product must be made by an Authorized TACP/THI Service Station.
- (3) **These warranties are effective only if the product is purchased and operated in the U.S.A.**
- (4) Labor service charges for set installation, set up, adjustment of customer controls and installation or repair of antenna systems are not covered by this warranty. Reception problems caused by inadequate antenna systems are your responsibility.
- (5) Warranties extend only to defects in materials or workmanship as limited above and do not extend to any product or parts which have been lost or discarded by you or to damage to products or parts caused by misuse, accident, damage caused by Acts of God, such as lightning or fluctuations in electric power, improper installation, improper maintenance or use in violation of instructions furnished by us; or to units which have been altered or modified without authorization of TACP/THI or to damage to products or parts thereof which have had the serial number removed, altered, defaced or rendered illegible.

Step-By-Step Procedures – How to Obtain Warranty Service

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

- (1) Contact one of the TACP/THI Service Centers listed below for warranty service or call the TACP toll free number **800-631-3811** within thirty (30) days after you find a defective product or part to find the nearest TOSHIBA Authorized Service Station or any authorized TOSHIBA dealer.
- (2) Please present your bill of sale or other proof to the Authorized Service Station. "Authorized TACP/THI service station personnel will come to your home when warranty service is required. Depending on the type of repair required, the service will either be performed in your home or the set will be taken to the authorized TACP/THI service station for repair and returned to your home at no cost to you."
- (3) If you have any question about service, please contact one of the following TACP/THI Service Centers:

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



NORTHEAST	MIDWEST	WEST	SOUTHWEST	SOUTHEAST	HAWAII
82 Totowa Road, Wayne, New Jersey 07470	1010 Johnson Drive, Buffalo Grove, Ill 60089-6900	5490 E. Francis St., Ontario, California 91761	1421 Champion Drive Suite 304, Carrollton, Texas 75006	6115 Jimmy Carter Blvd., Suite C2, Norcross, Georgia 30071-4607	327 Kamakee Street, Honolulu, Hawaii 96814

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

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

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



ATTENTION CANADIAN CONSUMERS:

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

TOSHIBA AMERICA CONSUMER PRODUCTS, INC.

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

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

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

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

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

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

TOSHIBA HAWAII, INC.

HEAD OFFICE/327 KAMAKEE STREET, HONOLULU, HAWAII 96814, U.S.A.

TOSHIBA OF CANADA LTD.

HEAD OFFICE/191 MCNABB STREET, MARKHAM, ONTARIO, L3R 8H2, CANADA TEL: (905) 470-5400

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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