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The following projector manual has not been modified or altered in any way.

TOSHIBA

OWNER'S MANUAL

Projection Television

*with NICAM digital stereo sound
picture-in-picture*

**DFS 100 & HYPER PROGRESSIVE
HYPER PRO 100**

WOW
by SRS (S)

**DIGITAL
MINI-DV**

61A9UE 61A9UA

INTRODUCTION

GETTING STARTED

USING THE TV'S
FEATURES

DIGITAL WINDOW

VIEWING
TELETEXT

EQUIPMENT
CONNECTIONS

REFERENCE

Dear Customer

Welcome to the high quality picture world created by the TOSHIBA Projection Color Television.

This manual will help you use the TV's many exciting and useful features.

Before operating the TV, please read all the safety and operating instructions in this manual thoroughly, and keep the manual for future reference.

Customer's Record

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

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 _____

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Features

HYPER PRO 100

The HYPER PRO 100 feature is equipped with three scanning modes. The 100 Hz/100Hz-DFS reduce the flicker of the picture and the Hyper Progressive improves coarse scanning lines as the conventional televisions, resulting in a clear and dense picture.

Digital Noise Reduction

Toshiba's advanced Digital Noise Reduction systems digitally reduce image noise and so improve picture quality.

Multi-Window function

Interesting programs on channels that are not tuned in can be simultaneously checked by viewing a total of horizontal 4, vertical 4 and 9 split screens. Any desired channel can be tuned in with one touch.

STROBE function

The Strobe function is convenient when watching a scene at an instant of quickly moving picture such as a sport Program.

PIP (Picture-in-Picture)

The PIP function can show another picture with in the main picture simultaneously.

Video/Audio terminals for external equipment connection

- Three sets of video/audio inputs are located on the rear. Video 3 is located on the front as well as the rear.
- Two S-VIDEO terminals on the rear (video/audio input 1 and 3) and one on the front (video/audio input 3)
- One set of monitor output terminals
- One set of fixed audio output terminals
- One set of component video input terminals
(Mainly for connecting a DVD video player)

Selectable picture and selectable sound

Allows one-touch selection of your favorite picture quality and sound quality among three preset modes and one user-set mode.

NICAM (BG/I/DK) and German (BG) stereo/bilingual broadcasts receivable***TELETEXT/FASTTEXT******WOW surround sound system***

SRS 3D and TruBass features bring 3D surround and bass expansion effects to the TV's stereo sound.

OFF timer and ON timer

Turns off the TV automatically and will turn it back on at a preset time.

Auto-Power-Off

If a vacant channel is tuned or TV broadcasts for a day are finished, the TV will automatically turn off after about 15 minutes. However, if the Off-timer is operating, it takes precedence. The Auto-Power-Off feature does not operate in the VIDEO or BLUE SCREEN OFF mode.

No-Signal-Mute

When the TV receives a signal from the aerial input (TF) which does not contain a video signal, the sound will be muted. This No-Signal-Mute feature does not operate in the BLUE SCREEN OFF mode.

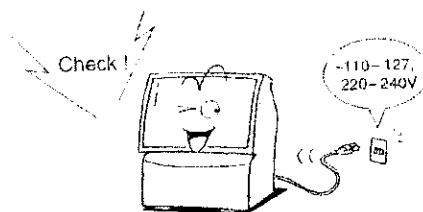
INTRODUCTION

Important Safety Instructions

- Be sure to observe the following instructions and precautions to ensure safe use of this TV.

Installation

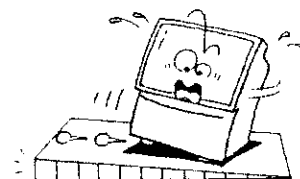
Always connect the plug to an electrical outlet equipped with
~ 110 - 127, 220 - 240V 50/60Hz.
Do not use the TV outside the specified voltage range.
It may cause a fire or an electric shock.



Never insert or remove the power plug with wet hands.
This may cause electric shock.

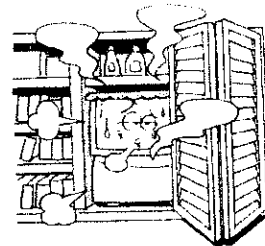


Do not place the TV in an unstabilized location such as on a shaky
table, incline or location subject to vibration.
The TV may drop or fall down which may cause injury or damage.



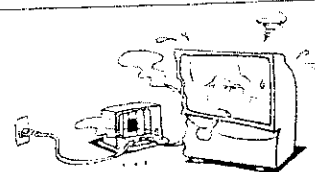
The slots and openings in the cabinet must never be blocked or
covered.

- Do not place the TV so that it is facing upwards, or on its side.
 - Do not place the TV into a closet or bookshelf where the ventilation is poor.
 - Do not spread a tablecloth or curtain on the TV.
- The inside of this TV will overheat if the ventilation holes are sealed,
which may result in a fire.



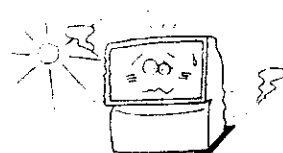
Never place the TV near a heater.

The surface of the cabinet or power cord may melt and result in fire
or electric shock.



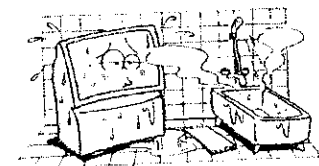
Do not place the TV in locations subject to direct sunlight.

A fire may result when the inside temperature increases.
You can also prevent direct illumination of the TV screen by using
the curtains or blinds.

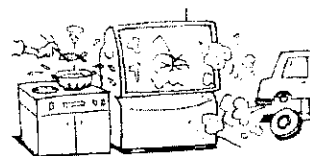


Installation (continued)

Do not use the TV in locations exposed to high humidity levels such as in a bathroom or close to a humidifier. This may cause a fire or an electric shock.

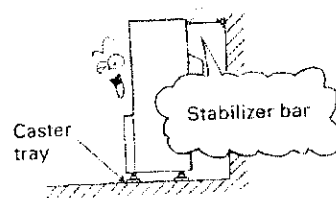


Do not place the TV next to a stove where it will be exposed to oil, smoke, or steam, or in a location where there is a large quantity of dust. This may cause a fire or electric shock.



Install the TV in a horizontal, stable location. Install a stabilizer bar if necessary to ensure that the TV is secure. If the TV is not installed securely, it may lean or fall over and cause an injury.

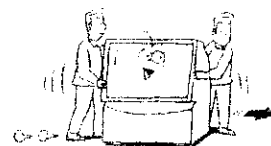
This TV is provided with casters at its bottom, with the object of facilitating its movement. To fix the casters or to prevent a soft floor from damage by the weight of the TV, use the supplied 4 caster trays.



Precautions for moving the TV

Always use two or more people to move this TV because it is extremely heavy.

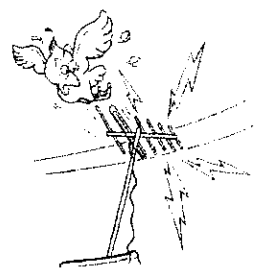
When moving the TV, be sure to remove the plug from the wall outlet and disconnect the aerial cable, audio/video cables, any stabilizer bars and the caster trays. Fire or electric shock may result if the power cord is damaged.



Be careful to prevent impact to the TV or damage to the screen.

Precautions for installing on outdoor aerial

An outside aerial system should not be located in the vicinity of overhead power lines, or other electric light or power circuits. If the aerial falls down or drops, it may cause injury or electric shock accidents.

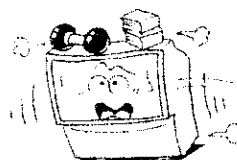


INTRODUCTION

Important Safety Instructions (continued)

Use

Do not place anything heavy on top of the TV.
This may cause the balance to become uneven, resulting in the TV falling over, dropping or causing an injury.

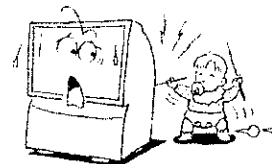


Do not set on top of the TV any object or container that might spill liquids or small objects into the TV.
(for example : a cup of tea, flower vase, house plant, cosmetics, small toys, metal objects or cleaning chemicals).
When liquids are spilled or small items are dropped inside the TV, this may cause a fire or an electric shock. If small objects drop inside the TV, turn off the TV and remove the power plug from the outlet immediately and contact a service technician.



Do not insert objects (metal or paper) or pour water inside the TV from ventilation holes and other places.

These items may cause a fire or an electric shock.
If these objects are inserted inside the TV, turn off the TV and remove the power plug from the outlet immediately and contact a service technician. Be especially careful that small children do not insert objects in the TV.

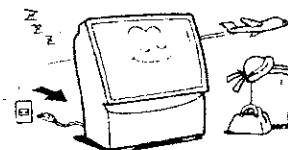


Do not stand or sit on top of the TV or on the front control box.
Be especially careful in households with small children to prevent them from climbing on top of the TV or on the front control box. It may move, fall over, break, become damaged or cause an injury.



When the TV will not be used for a long period of time, such as during vacation or travel, remove the power plug from the wall outlet.

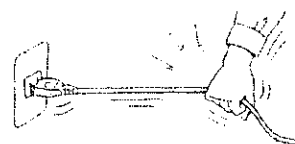
Fire may result if the insulation on the power cord is reduced by dust build up.



Use (continued)

Do not pull on the power cord when removing the plug from the wall outlet.

Always hold the plug firmly when removing it. If the power cord is yanked, the cord may become damaged and fire or electric shock may occur.

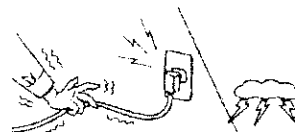


Do not cut, break, modify, twist, bunch up or bent the cord or apply excessive force or tension to it.

Do not place heavy objects on the cord or allow it to overheat as this may cause damage, fire or electric shock. Contact a service technician if the power cord is damaged.



If there is thunder or lightning, do not touch the aerial cable.
You may suffer an electric shock.



Moisture Condensation

If the room temperature suddenly rises (or if the TV is moved from a cool place to a hot place), condensation may occur on the lenses resulting in picture distortion or color fading. In such a case, simply wait a while (with the power on) and the condensation will evaporate.

Precautions on stationary images

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

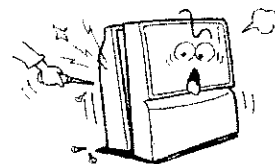
INTRODUCTION

Important Safety Instructions (continued)

Service

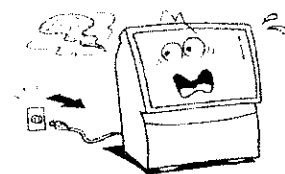
Do not repair, modify or disassemble the TV by yourself.

Never repair, modify or disassemble the TV by yourself. It may cause a fire or an electric shock. Consult a service technician for inspection and repairs.



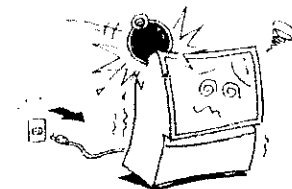
When a malfunction occurs, or if smoke or strange smell come from the TV, turn off the TV and remove the power plug from the outlet immediately.

Make sure that the smoke has stopped, then contact a service technician. If the TV is still used in this condition, it may cause a fire or an electric shock.



If the TV is dropped or the cabinet is damaged, turn off the TV and remove the power plug from the outlet immediately.

If the TV is still power used in this condition, it may cause a fire or an electric shock. Contact a service technician for inspection.



Cleaning

Do not use solvents such as benzine or thinner to clean the TV.

- These solvents may distort the cabinet or damage its finish.
- If rubber or vinyl products remain in contact with the TV for a long time, a stain may result.

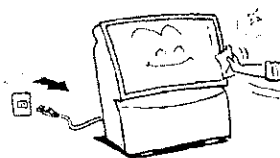
When the cabinet becomes dirty, clean it with a soft, dry cloth.

When the cabinet is very dirty.

- Use a damp cloth to wipe the cabinet clean.
- Finish with a dry cloth.

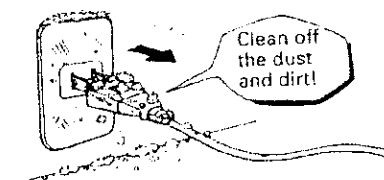
When cleaning the screen:

- Turn off the TV.
- Clean the screen with a soft, dry cloth.



When dust has collected on the power plug connectors, remove the plug from the outlet and clean off the dust.

This dust may cause a fire due to reduced insulation on the plug.

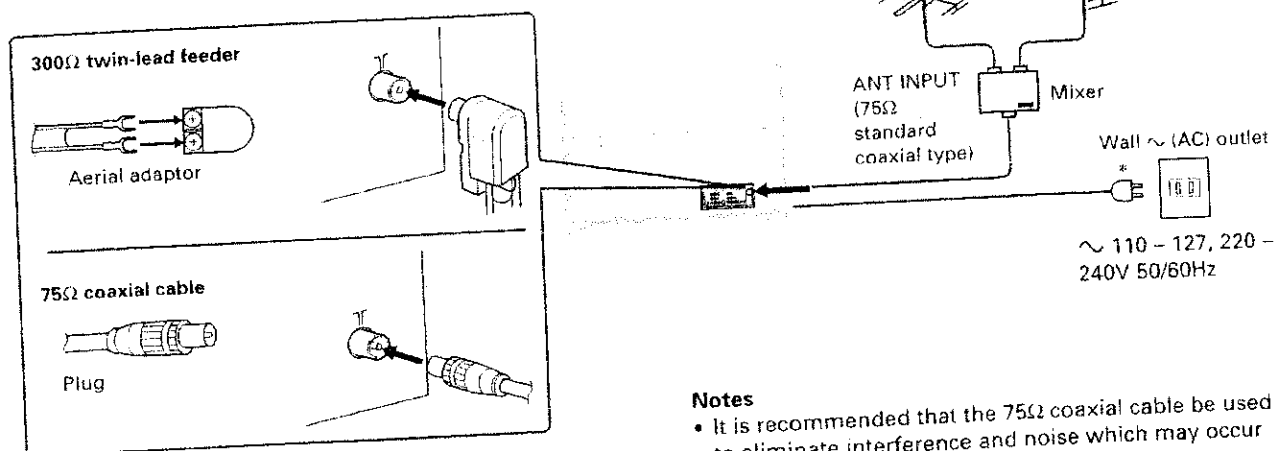


INTRODUCTION

Installation

To connect an aerial

Optimum reception of color requires a good signal and will generally mean that an outdoor aerial must be used. The exact type and positioning of the aerial will depend upon your particular area. Your Toshiba dealer or service personnel can best advise you on which aerial to use in your area.



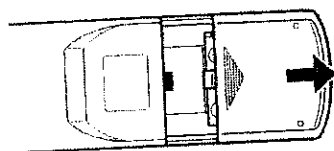
Notes

- It is recommended that the 75Ω coaxial cable be used to eliminate interference and noise which may occur due to radio wave conditions.
- The aerial cable should not be bundled with the power cord and the like.

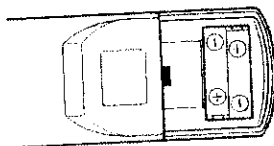
To prepare the remote control

Battery installation

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



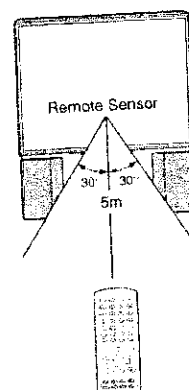
- 2 Install two "AAA" size batteries. Match the + and - signs on the batteries to the signs on the battery compartment.



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

Tips for best operation

Effective range



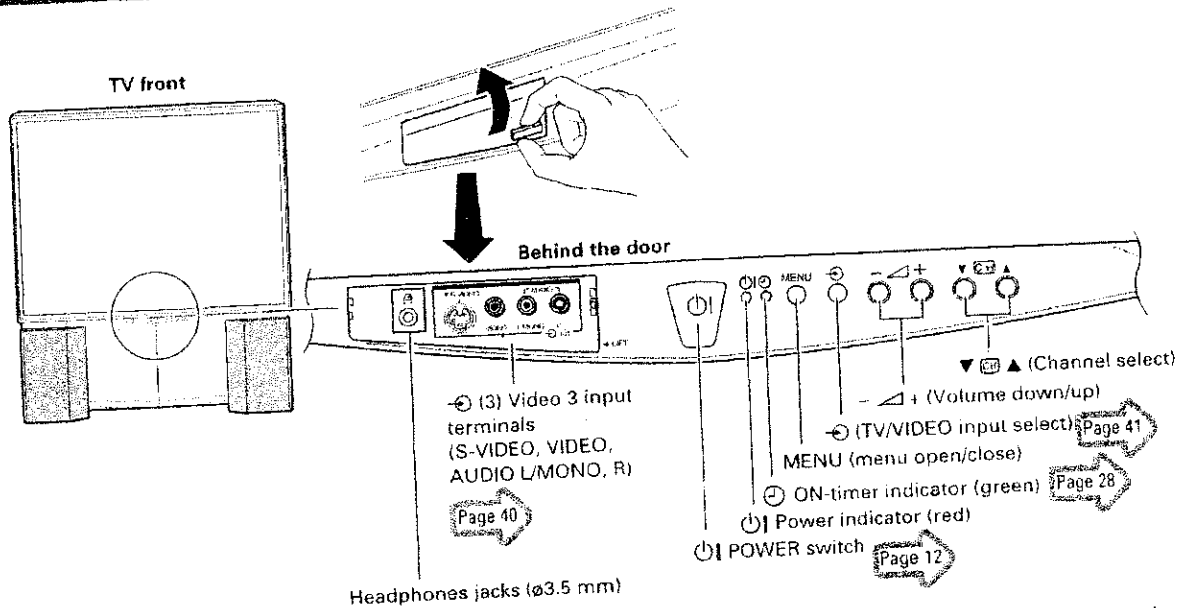
- The battery life should be about one year under normal use.
- When the remote control will not be used for a long period of time or when the batteries are worn out, remove the batteries to prevent leakage.
- Do not throw the batteries into a fire. Dispose of used batteries in the specified manner.
- Do not drop, dampen or disassemble the Remote Control.

INTRODUCTION

Location of Controls

- For the use of each control, refer to pages in brackets.

TV Front



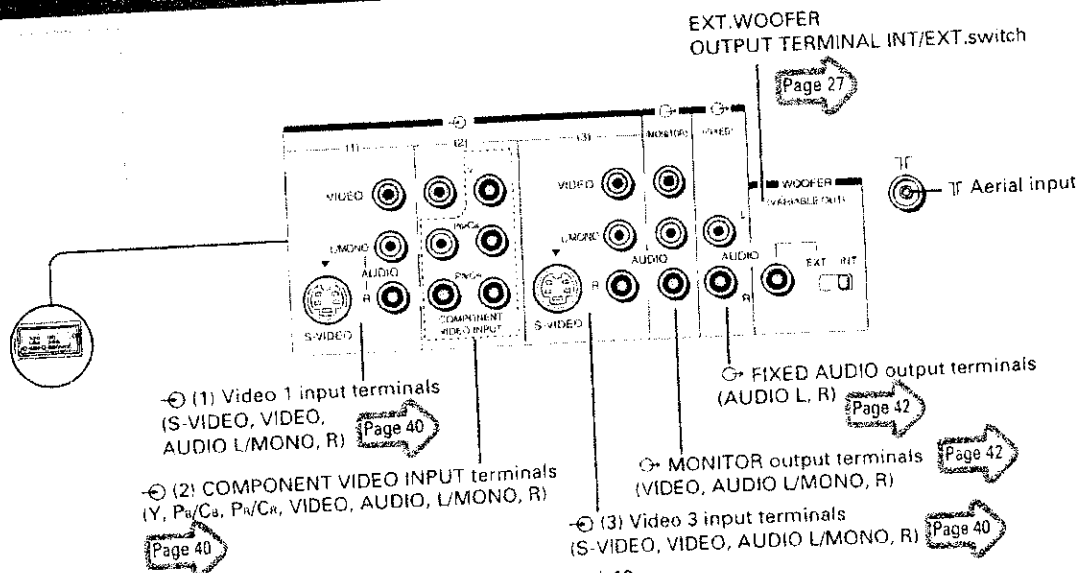
Headphones jacks (ø3.5 mm)

- Use this jack when listening to the sound outputted to the speaker with the headphones. (Stereo output enabled)
- Use - / + buttons to control the volume.

Note

Functions of MENU, - / + and Channel select are also provided to the Remote Controller.

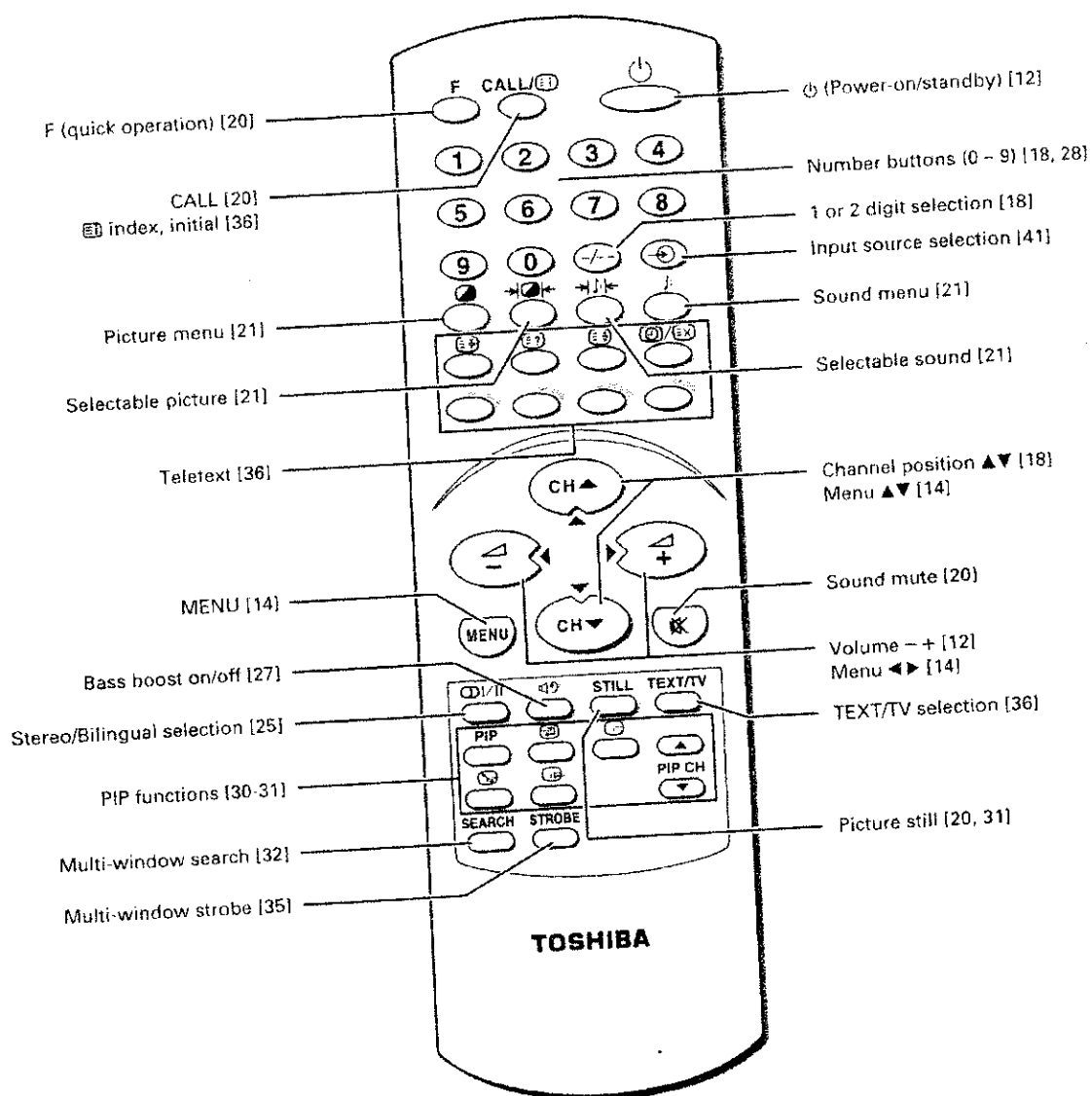
Back



Note: To connect the TV with other AV equipments, see pages 40, 41 and 42.

Remote control

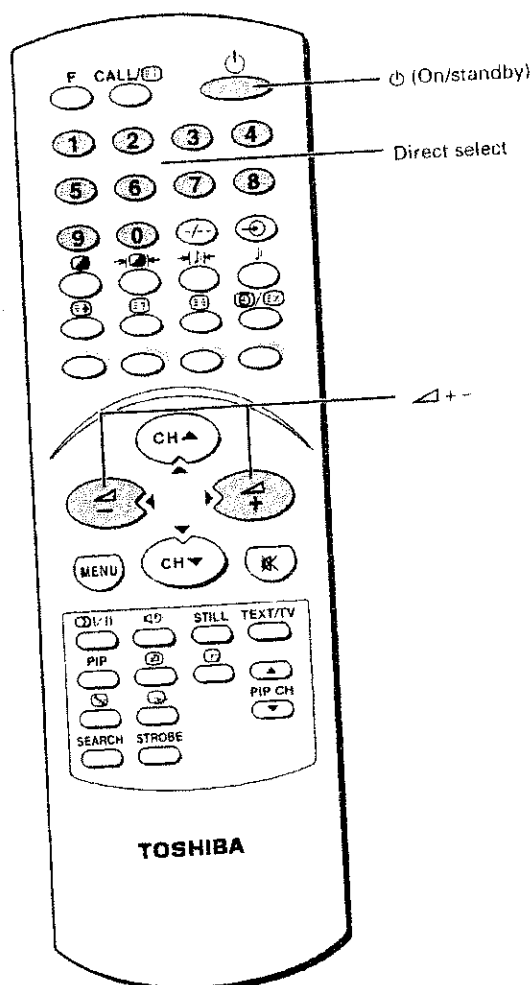
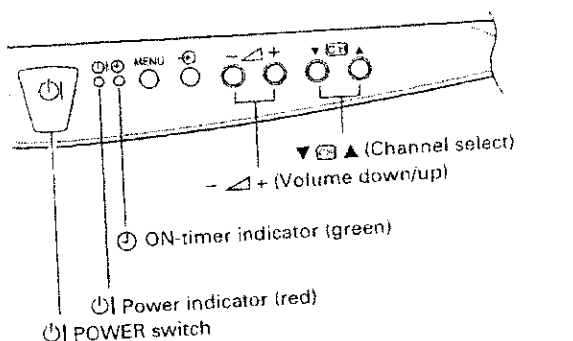
For details on the use of each control, refer to the page numbers in brackets.



GETTING STARTED

Turning the TV On/Off

To turn the TV on/off



1 Push the **POWER** switch until it clicks to turn on the TV. The **power indicator** will light up in red.

2 If no picture appears, press the **⏻** button on the remote control.

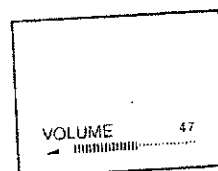
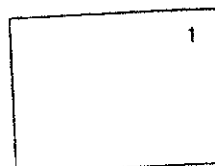
Notes

- You can also turn on the TV by pressing one of the **Number** buttons (0 - 9) instead of the **⏻** button. By pressing the number (one digit only) where the channel you want to watch is preset, you can turn on the set and channel selection at the same time. (For the channel programming, see page 15.)
- When the remote control is not at your hand, you can turn on the set by pressing the **▲ - +** or **⏻ ▲/▼** button on the TV set.

3 Adjust the sound volume with the **▲ -** or **+** button.

4 To switch to the standby mode, press the **⏻** button.

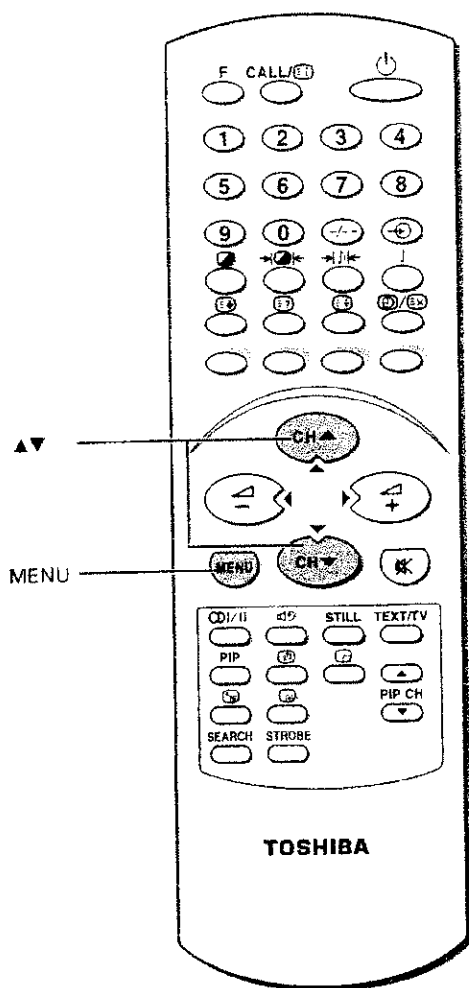
5 To turn off the TV, push the **POWER** switch until it clicks.



GETTING STARTED

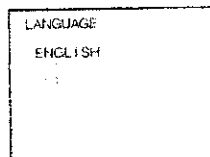
Selecting the on-screen display language

To select the on-screen display language

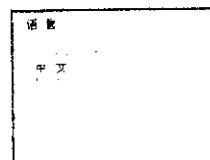


You can choose from three different languages (English, Mandarin and Malay) for the on-screen displays.

- 1 Press the **MENU** button repeatedly to display the **LANGUAGE** menu on the screen.



- 2 Press the **▼** or **▲** button to select the desired language. The selected language is displayed in purple and the screen menu is automatically displayed in that language.



Display example: FUNCTION menu

English

FUNCTION
▶GEOTIMER
OFF 00:00
ON 00:00 P01
TEXT FAST
CONVERGENCE [+]

Mandarin

功能
▶定时器
关 00:00
开 00:00 P01
图文电视 FAST
会聚调整 [+]

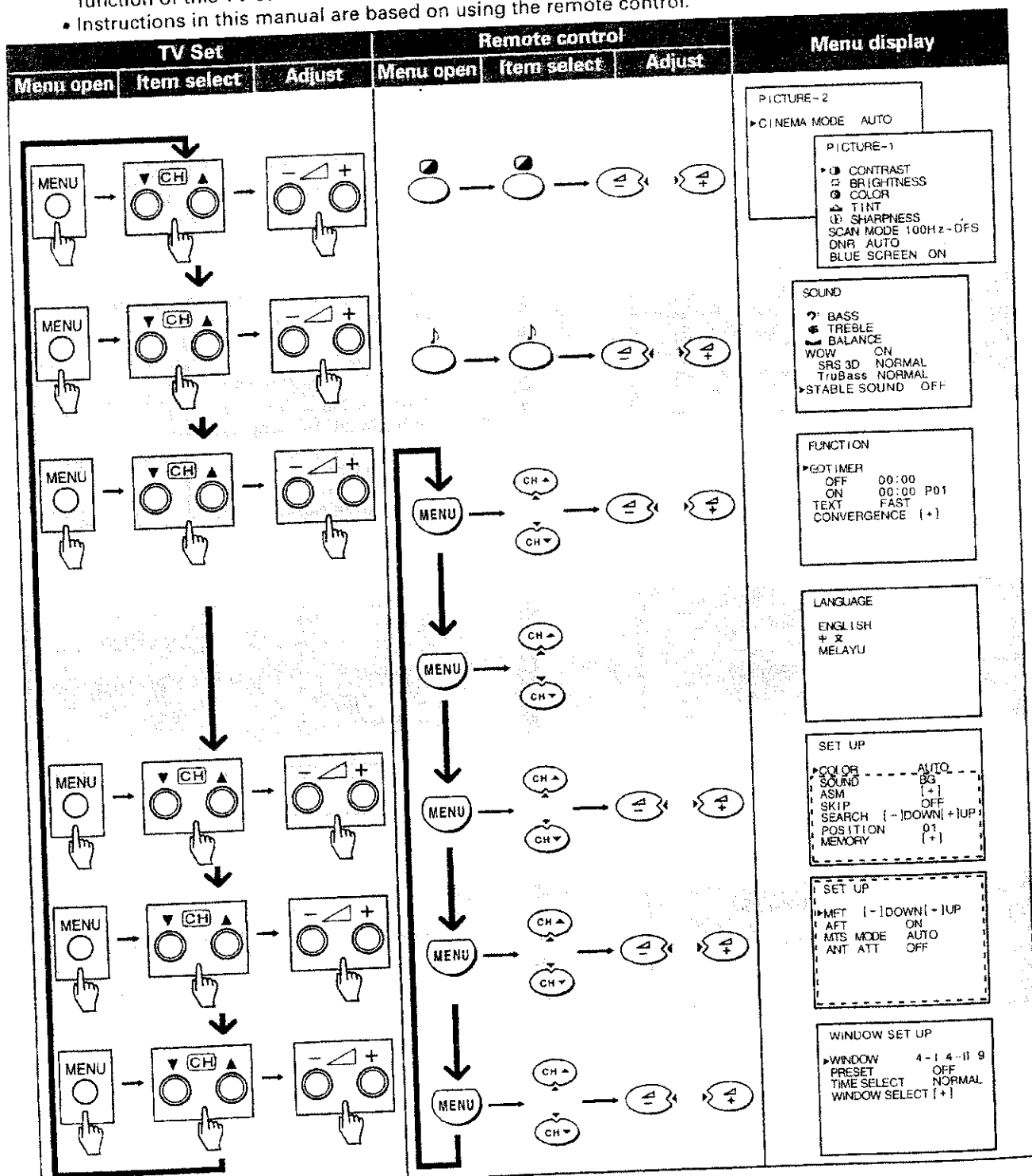
Malay

FUNGSI
▶GEOPENUTU MASA
TUTUP 00:00
BUKA 00:00 P01
TEKS FAST
LARAS PENUMPUN [+]

GETTING STARTED

Menu Function

- Before watching the TV, please familiarise yourself with this method to use the menu function of this TV set.
- Instructions in this manual are based on using the remote control.



Note

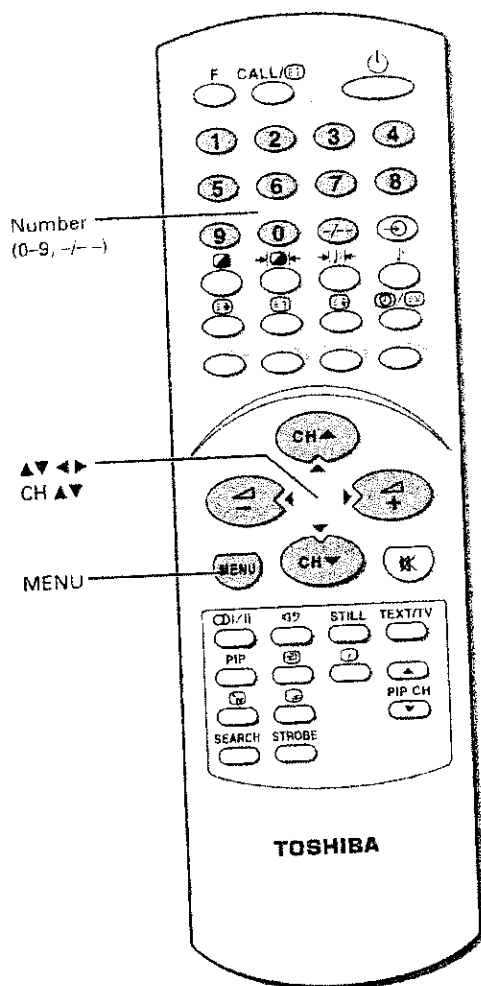
- The area on the SET UP menu display does not appear in the video mode.
- The on-screen menu displays will disappear within 15 seconds. If you want to erase the display instantly, press the CALL button on the remote control.
- "SCAN MODE" and "DNR" functions in the PICTURE-1 menu do not appear when 525p signal is received from the COMPONENT VIDEO INPUT Terminals.
- The PICTURE-2 menu appears only in the video mode (other than 525p signal).

GETTING STARTED

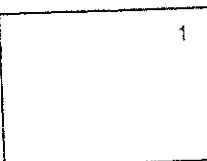
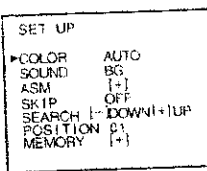
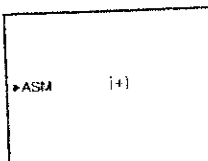
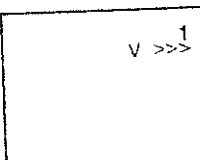
Programming Channel Memory

- First, use the ASM (Automatic Search Memory) function to preset all the active channels in your area automatically. Then, arrange the preset channels with the SEARCH, SKIP and MFT (Manual Fine Tuning) functions so that you can tune into only desired channels.

To preset channels (ASM)



ASM (Automatic Search Memory)

- Select the first channel position you want the ASM to start presetting from with the CH ▲▼ buttons or the Number buttons.
 
- Press the MENU button repeatedly to display the SET UP menu.
 
- Confirm that "COLOR" is set to "AUTO" and "SOUND" is set to proper system. If not, press the ▲ or ▼ button to select "COLOR" or "SOUND" then press the ◀ or ▶ button to select the proper systems. (See page 43.)
- Press the ▲ or ▼ button to select "ASM".
 
- Press the ▶ button to start the ASM. All active channels will be stored in the memory automatically. When programming is complete, the initial position number will reappear.
 

After presetting

Check the preset channels by pressing the CH ▲▼ buttons.

- If the picture or sound of a certain channel is not good, adjust SEARCH or MFT function. (See pages 16 and 17.)
- If the color of a certain channel is abnormal, the automatic color system selection (AUTO) may have malfunctioned, or sound system selection is wrong. In such a case, select another color and/or sound system. (See page 43.)

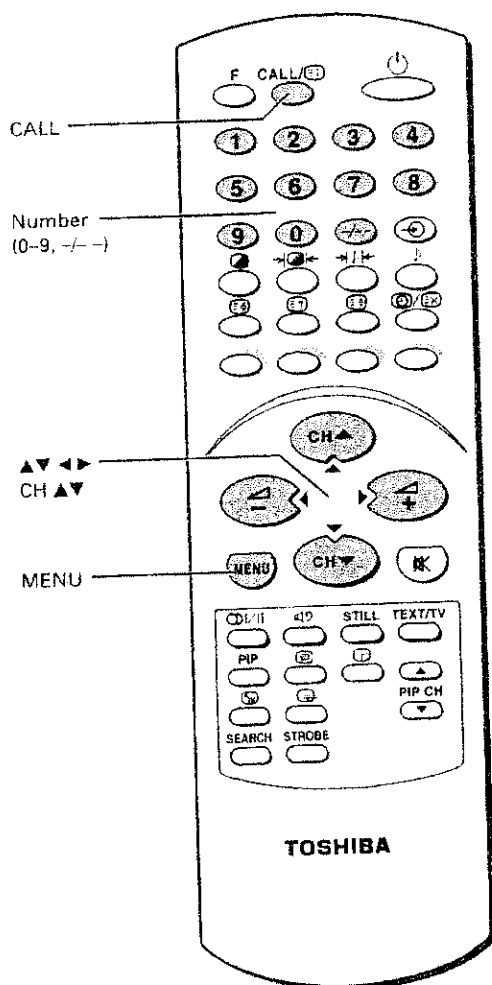
GETTING STARTED

Programming Channel Memory

(continued)

- Use the SEARCH function if desired channels cannot be preset with the ASM or if you would like to preset channels to specific position numbers one by one.

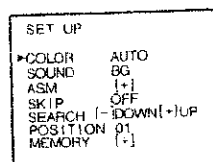
To preset channels (SEARCH)



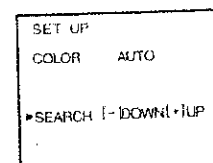
SEARCH

- 1 Select a desired channel position with the **CH ▲▼** or **Number** buttons.

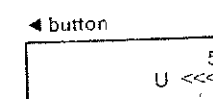
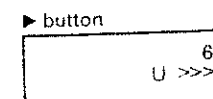
- 2 Press the **MENU** button repeatedly to display the SET UP menu.



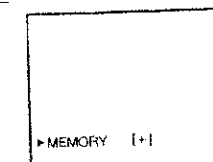
- 3 Press the **▲** or **▼** button to select "SEARCH".



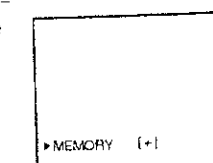
- 4 Press the **◀** or **▶** buttons to start searching. The **◀** button searches for lower-numbered channels. The **▶** button for higher-numbered channels. Repeat this process until the desired channel is displayed.



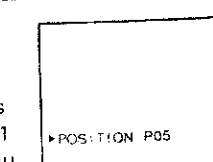
- 5 Press the **▲** or **▼** button to select "MEMORY".



- 6 Press the **▶** button to store the channel at the current position.



- 7 When you program other channels, perform "SEARCH", "POSITION" and "MEMORY" functions in order. Or, repeat steps 1 to 6 after the SET UP menu disappears.

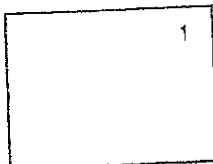


MFT/AFT/To skip unnecessary position numbers

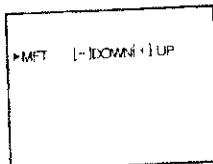
MFT (Manual Fine Tuning)

The adjustments below are not necessary under normal receiving conditions. However, in areas of inferior broadcast conditions where adjustment is necessary for a better picture, perform the MFT.

- 1 Select the channel position you want to fine-tune with the **CH ▲▼** buttons or **Number** buttons.



- 2 Press the **MENU** button repeatedly to display the SET UP menu, then press the **▲** or **▼** button to select "MFT".



- 3 Press the **◀** or **▶** button until the best possible picture and sound are obtained.

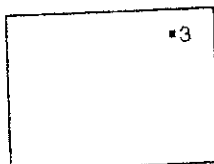
Note

When operating the MFT function, the AFT status is automatically set to OFF.

AFT (Automatic Fine Tuning)

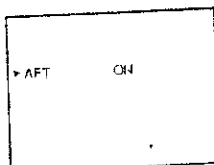
The AFT function automatically corrects slight fluctuations when receiving signals.

- 1 Select the channel position you want to fine-tune with the **CH ▲▼** buttons or **Number** buttons.



While in the AFT OFF mode, "■" mark appears to the left of the position number.

- 2 Press the **MENU** button repeatedly to display the SET UP menu, then press the **▲** or **▼** button to select "AFT".

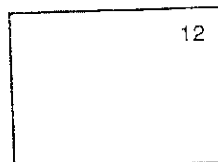


- 3 Press the **◀** or **▶** button to select "ON".

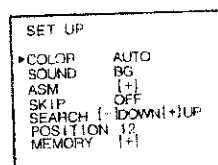
To skip a position number

After presetting the channels, you may skip unnecessary channel position so that only the channels you want to watch are selected.

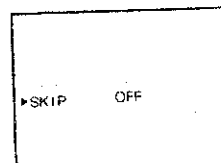
- 1 Select the channel position to be skipped with the **CH ▲▼** buttons or **Number** buttons.



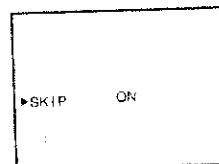
- 2 Press the **MENU** button repeatedly to display the SET UP menu.



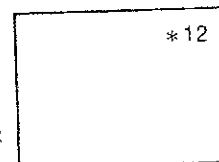
- 3 Press the **▲** or **▼** button to select "SKIP".



- 4 Press the **◀** or **▶** button to select "SKIP ON".



- 5 Press the **CALL** button to erase the display. Select the channel position to be skipped with the **Number** buttons. The * mark appears at the left of the position number. The channel position will then be skipped when you select channels with the **CH ▲▼** buttons.



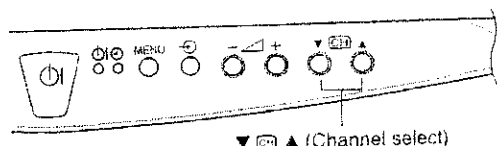
To restore a skipped position number

- 1 Select the channel position you want to restore with the **Number** buttons.
- 2 Press the **MENU** button to display the SET UP menu and press the **▲** or **▼** button to select "SKIP".
- 3 Press the **◀** or **▶** button to select "SKIP OFF".

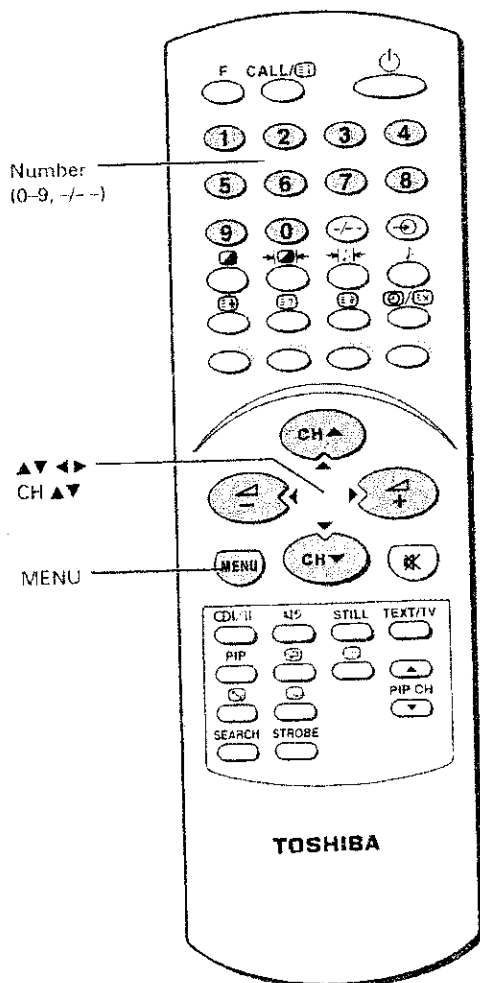
GETTING STARTED

Watching TV Programs

To watch TV programs



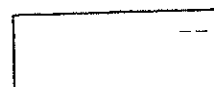
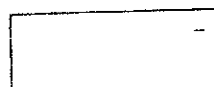
▼ CH ▲ (Channel select)



To select TV programs

Using the Number buttons

- To select a one-digit position number:
Press the +/- button to display "--" and 0-9 to select a number. (0-9)
- To select a two-digit position number:
Press +/- to display "--" and press 0-9 to select a number. (00-99)



Using the CH ▲▼ buttons (or CH ▲▼ buttons on the TV)
Press ▲ to select higher position numbers.
Press ▼ to select lower position numbers.

If the color or sound of a certain channel is abnormal

The color or sound system setting may be incorrect.
Press the **MENU** button to display the SET UP menu, then change the setting as follows:
(For the systems in each country, refer to page 43.)

►COLOR AUTO

- When the color of the picture is abnormal**
Press the ▲ or ▼ button to select "COLOR", then select the correct color system with the ◀ or ▶ button. AUTO, PAL, SECAM, NTSC4.43 and NTSC3.58 will appear cyclically.
- When the sound is abnormal**
Press the ▲ or ▼ button to select "SOUND" and select the correct sound system with the ◀ or ▶ button. I, DK, M and BG will appear cyclically.

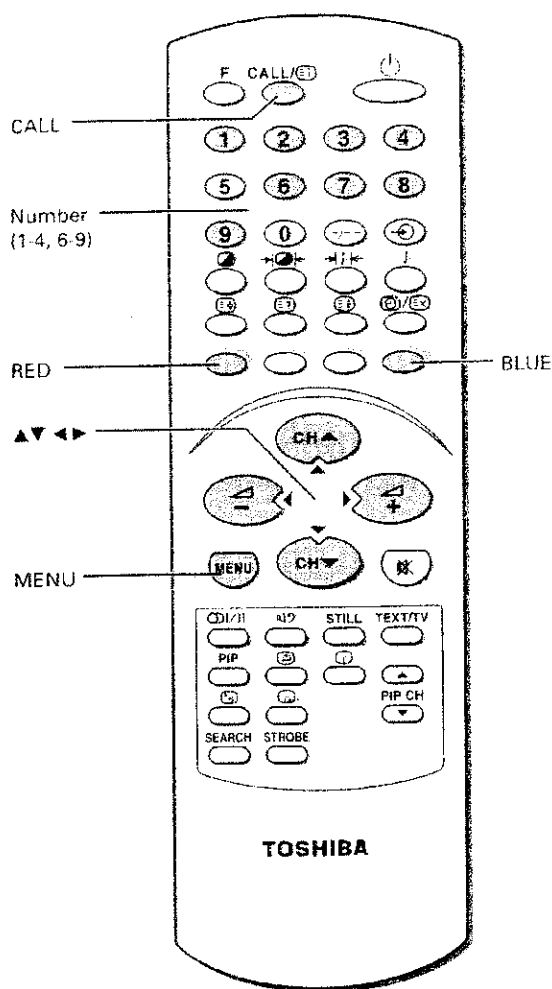
If the sound or picture of every channel is abnormal

Preset the channels using the ASM (Automatic Search Memory). See page 15.

Adjusting the Color Convergence

- This projection color TV uses three separate TV tubes: a red one, a green one, and a blue one. The red, green and blue images are projected onto the screen, where they converge to form a full color picture. You can see a clear picture only when they converge correctly.
- Convergence may drift over time or if you move the TV. If you can see clear images on the screen, skip this procedure.

To check and adjust the color convergence

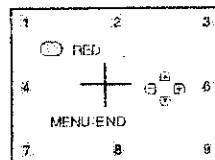


- 1 Press the **MENU** button repeatedly to display the **FUNCTION** menu.

FUNCTION
 SET TIME 00:00
 OFF 00:00
 ON 00:00 PG1
 TEXT FAST
 CONVERGENCE (+)

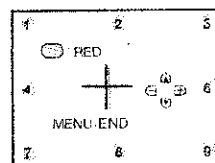
- 2 Press the **▼** or **▲** button to select "CONVERGENCE".

- 3 Press the **▶** button to display the center **CONVERGENCE** menu. If you see separate colored lines, you have to adjust the convergence.

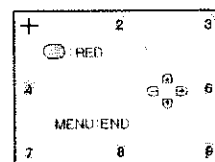


- 4 Press the **RED** or **BLUE** button to select the color you want to adjust.

- 5 Press the **▼** (down), **▲** (up), **◀** (left), or **▶** (right) button to converge the red or blue line into the green line. When color convergence is correctly adjusted, you will see two single white lines.



- 6 Press the corresponding number button (1-4, 6-9) to select the peripheral area you want to adjust.



- 7 Repeat steps 4 and 5 until you see two single white lines.

- 8 Press the **Number** button (1-4, 6-9) to select any other place you want to adjust, then repeat steps 4 and 5 until you see two single white lines.

To end the convergence adjustment

Press the **MENU** button to return the **FUNCTION** menu, or press the **CALL** button to erase the menu display.

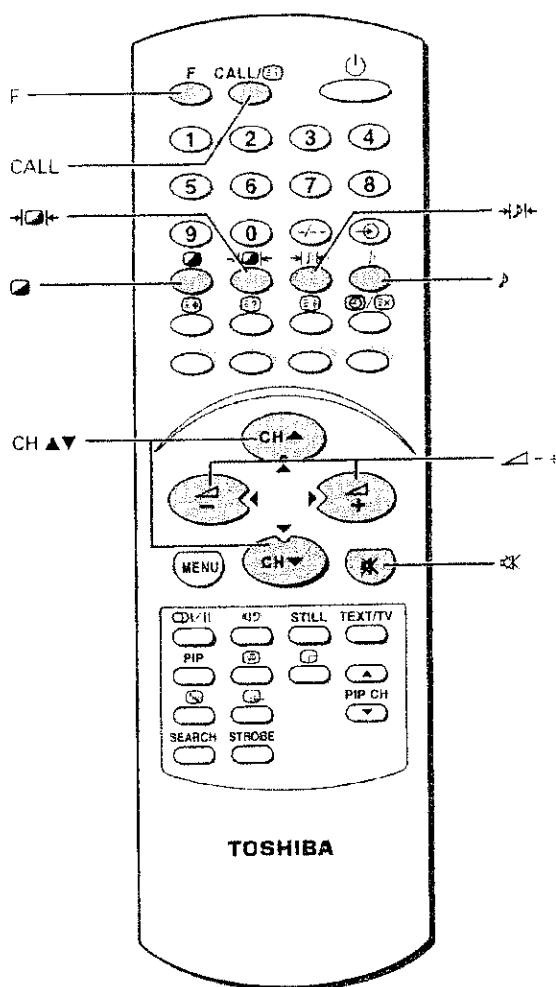
Note

Do not adjust the center convergence after the peripheral convergence (step 8).

USING THE TV'S FEATURES

Convenient Picture and Sound Controls

To use the (mute)/CALL/STILL/F buttons



To mute the sound

Press the  button to temporarily turn off the sound. While the sound is off, the screen will display the  mark shown below.

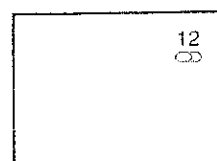
To restore the sound, press the  button again.



To display on-screen information

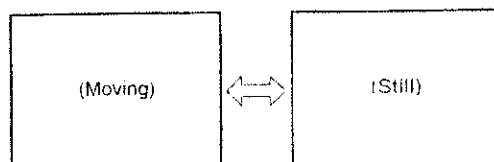
Press the **CALL** button to display the position number (or VIDEO mode selected) and  (stereo) or I/II (bilingual) sound status.

To erase the display, press the **CALL** button again.



To freeze the picture

Press the **STILL** button. To freeze the picture. To return to a moving picture, press the **STILL** button again.



Note

When the 525p signal source from the DVD connected is received, the **STILL** button is not available. The message "MODE NOT AVAILABLE" will appear on the screen.

To change channel position rapidly

Press the **F** button and the **CH**  or  button simultaneously. The position number decreases or increases by 10.

To change the volume rapidly

Press the **F** button and the  + or  - button simultaneously. The volume changes rapidly.

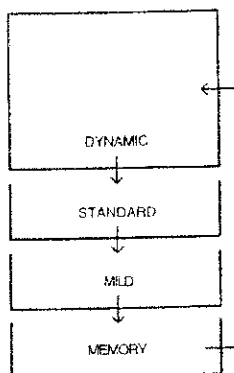
Selectable picture and Selectable sound

To select the picture mode

You can select the picture quality instantly from three preset modes and one user-set mode.

Press the  button to select the desired picture quality.

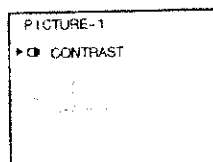
DYNAMIC, STANDARD, MILD and MEMORY (user-set) can be selected cyclically.



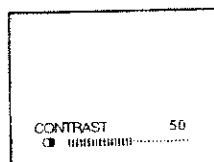
Mode	Picture quality
DYNAMIC	bright and dynamic picture
STANDARD	standard picture
MILD	soft picture
MEMORY	the picture quality you set

To adjust the picture quality

- 1 Press the  button repeatedly to select the picture item you want to adjust.



- 2 Press the  + or  button to adjust the level.



Item		Pressing	
		 -	 +
	CONTRAST	weaker	stronger
	BRIGHTNESS	darker	lighter
	COLOR	paler	deeper
	TINT *	purplish	greenish
	SHARPNESS	softer	sharper

* for NTSC system only

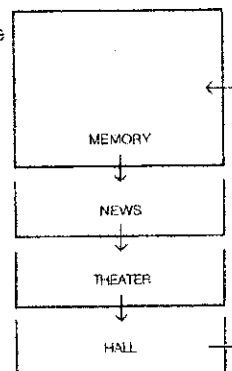
The adjusted picture quality level is stored in the picture MEMORY.

To select the sound mode

You can select the sound quality instantly from three preset modes and one user-set mode.

Press the  button to select the desired sound quality.

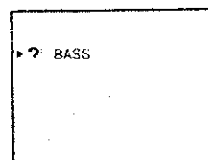
MEMORY (user-set), NEWS, THEATER and HALL can be selected cyclically.



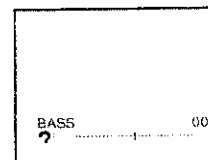
Mode	Sound quality
MEMORY	the sound quality you set
NEWS	news/dialogue
THEATER	a movie theater filled with a dynamic sound
HALL	a concert hall filled with a rich warm sound

To adjust the sound quality

- 1 Press the  button repeatedly to select the sound item you want to adjust.



- 2 Press the  + or  button to adjust the level.



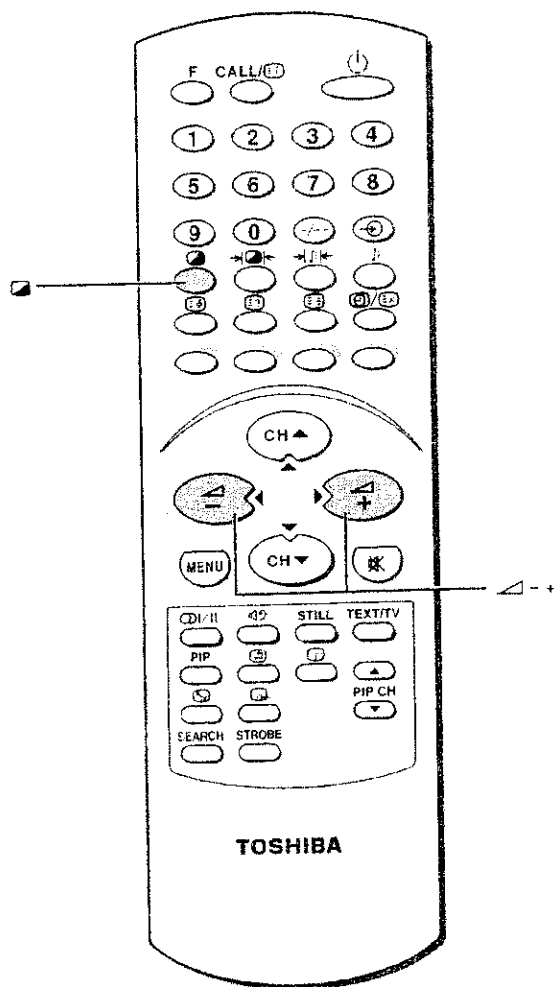
Item		Pressing	
		 -	 +
	BASS	weaker	stronger
	TREBLE	weaker	stronger
	BALANCE	decreases the right channel	decreases the left channel

The adjusted sound quality level is stored in the sound MEMORY.

USING THE TV'S FEATURES

Convenient Picture and Sound Controls (continued)

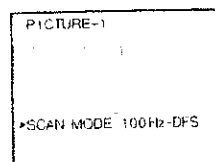
To select the scan mode and Digital Noise Reduction (DNR)



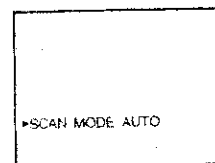
To select the scan mode

You can select the desired scanning mode from among the Auto and 100Hz-DFS, 100 Hz, Hyper Progressive. The Auto mode automatically select the appropriate mode according to the system received.

- 1 Press the button repeatedly to select "SCAN MODE" in the PICTURE-1 menu.



- 2 Press the + or - button to select "100Hz-DFS", "100Hz", "HYP-PROG.", or "AUTO".



AUTO : NTSC, PAL 60 Hz receiving → HYP-PROG mode PAL receiving (except 60 Hz) → 100 Hz DFS mode.

100Hz-DFS : Reducing the field and line flickers.

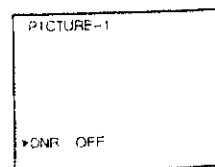
100Hz : Reducing the field flicker.

HYP-PROG.: Reproducing the dense picture by progressive scanning.

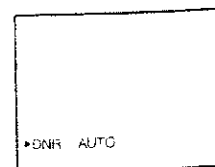
To activate the Digital Noise Reduction

If the signal being received is weak and the picture is blurry, activate this function to improve the picture.

- 1 Press the button repeatedly to select "DNR" in the PICTURE-1 menu.

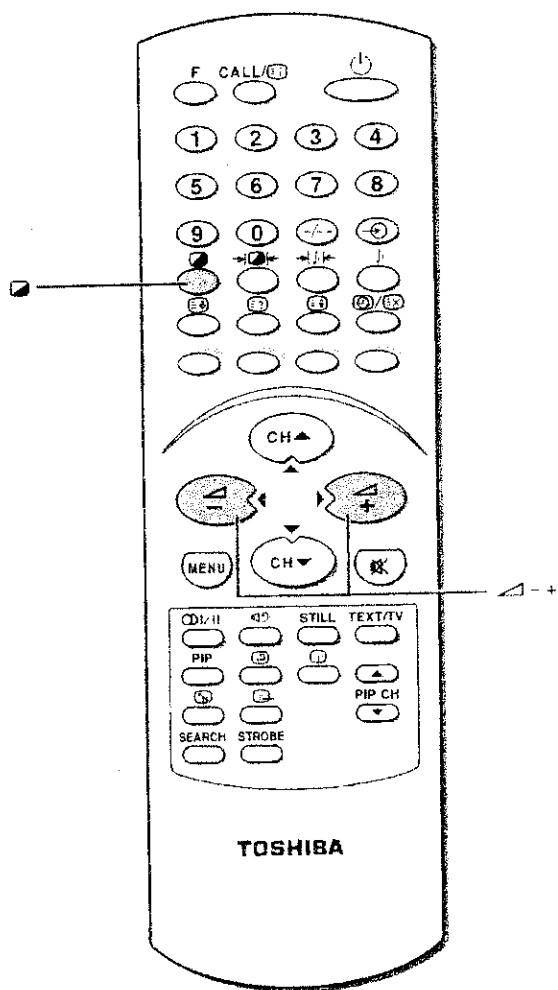


- 2 Press the -/+ buttons to select "AUTO".



To turn off the Digital Noise Reduction
Select "OFF" in step 2 above.

To use the Cinema mode and Blue screen features



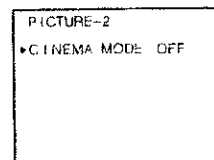
To set the CINEMA mode to "AUTO"

A movie film features a picture with 24 frames a second, whereas the movie software like the DVD and so on that you enjoy watching television at home is changed to the picture of 30 frames a second. To convert this signal to the progressive scanning and to reproduce the smooth motion and picture quality, select the AUTO mode.

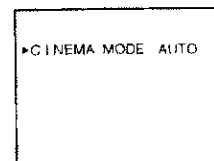
Effective signal and setup conditions

- when the video mode is selected.
- when the input signal format is NTSC, 525i signal.
- when the scan mode setting is in "AUTO" or "HYP-PROG."

- 1 Press the button repeatedly to display the PICTURE-2 menu.



- 2 Press the + or - button to select "AUTO".



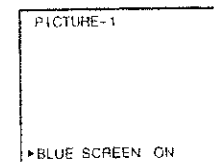
Note

A DVD movie with a subtitle is input from a DVD player, the cinema mode may not operate correctly.

To activate the blue screen

With the blue screen function ON, the screen will automatically turn blue and the sound will be muted when no signal is received.

- 1 Press the button repeatedly to select "BLUE SCREEN" in the PICTURE-1 menu.



- 2 Press the + or - button to select "ON".

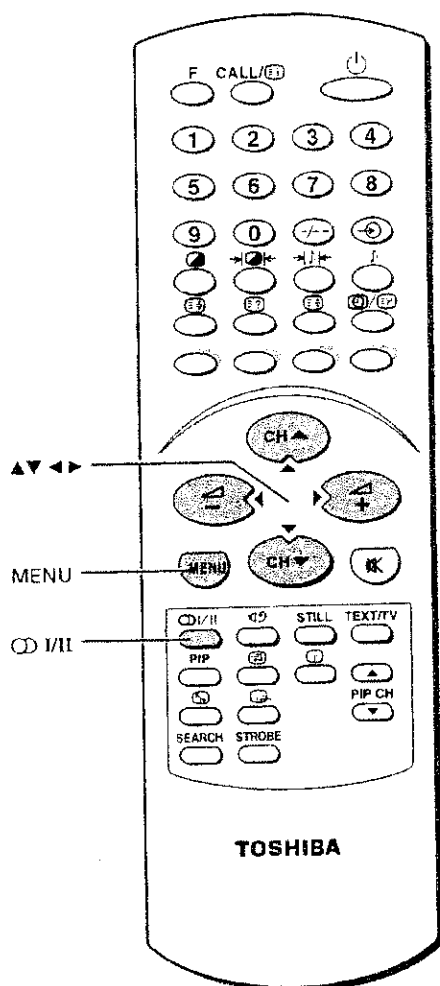
Note

- The blue screen will not function when the PIP is on the screen.
- If the blue screen tends to misoperate due to unstable signal strength or frequency, select "OFF" in step 2.

Convenient Picture and Sound Controls (continued)

- The TV receives both stereo and bilingual broadcasts transmitted in either the NICAM or German stereo/bilingual broadcast system.

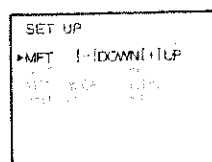
To select the MTS (Multichannel TV Sound) mode



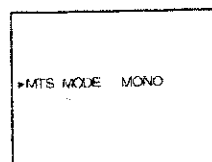
AUTO mode

The "AUTO" setting of the MTS mode automatically recognizes stereo/bilingual programs depending on the broadcast signal.

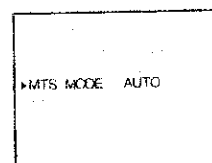
- Press the **MENU** button repeatedly to display the SET UP menu on the screen.



- Press the **▲** or **▼** button to select "MTS MODE".



- Press the **◀** or **▶** button to select "AUTO".



MONO mode

If you experience noise or poor reception of any stereo/bilingual program, set the MTS mode to "MONO". Noise should be reduced.

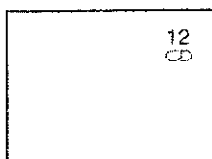
Note

If you experience noise with a particular program on whose channel reception is usually good, try setting MTS mode to AUTO, then switch the **I/II** button to **▼** (monaural). (Refer to the chart on the next page.)

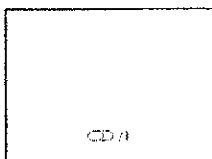
To select the stereo/bilingual mode

Stereo programs

- 1** When a stereo program is received,  appears.



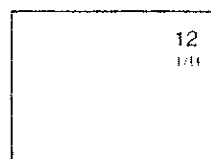
- 2** Press the  button to select the stereo/monaural mode. /I, /II and  appear cyclically on the screen.



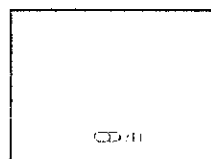
Display	Receiving mode
 /I	Stereo
 /II	Stereo
	Monaural

Bilingual programs

- 1** When a bilingual program is received, I / II appears.



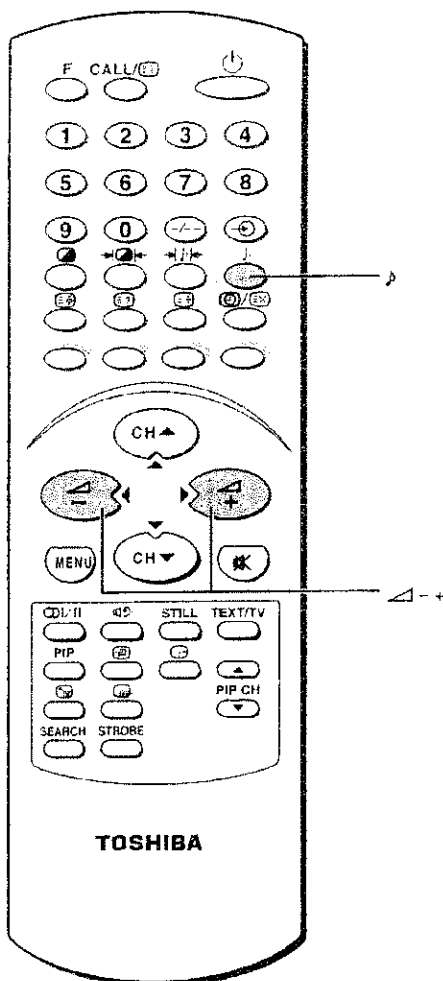
- 2** Press the  button to select the sound to be heard. The sound differs according to the transmission system: NICAM or German stereo/bilingual broadcast. /I, /II and  appear cyclically on the screen.



Display	Sound to be heard	
	NICAM	German stereo/bilingual broadcast
 /I	Sub I sound	Main sound
 /II	Sub II sound	Sub sound
	Main sound	Main sound

Convenient Picture and Sound Controls (continued)

To use the WOW surround sound and Stable sound features



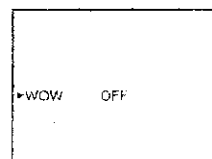
Notes

- If the broadcast is monaural, the WOW effect does not work.
- WOW and the (●)* symbol are trademarks of SRS Labs, Inc.
- WOW technology is incorporated under license from SRS Labs, Inc.

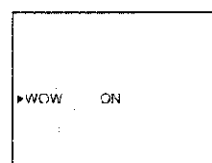
To turn on the WOW surround

The WOW surround expands the audio listening field wider and deeper to create exceptional sound quality from the TV's speakers. The feature uses stereo signals from a TV broadcast or video input.

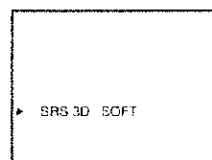
- 1 Press the **D/EX** button repeatedly to select "WOW" in the SOUND menu.



- 2 Press the **CH+** or **CH-** button to select "ON".



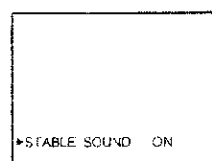
- 3 Press the **D/EX** button to select "SRS 3D" or "TruBass", then press **CH+** or **CH-** button to select "NORMAL" or "SOFT" for your personal preference.
 - SRS 3D : Surround effect
 - TruBass : Bass expansion effect



To turn on the stable sound

When the signal source is changed, the stable sound feature limits the high volume level to prevent extreme changes in volume. For example, this will prevent the sudden increase in volume that often happens when a TV program switches to a commercial.

- 1 Press the **D/EX** button repeatedly to select "STABLE SOUND" in the SOUND menu.

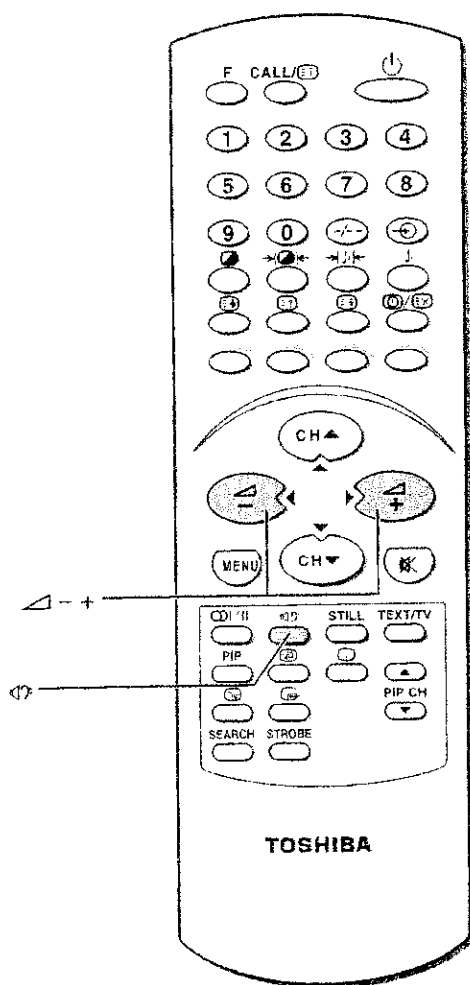
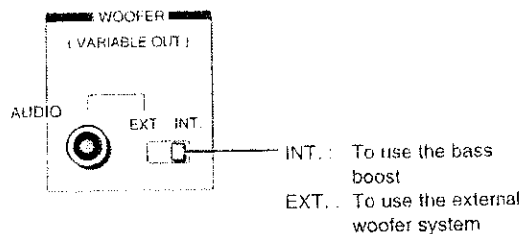


- 2 Press **CH+** or **CH-** button to select "ON".

To turn off the stable sound
Select "OFF" in step 2 above.

Bass boost and External woofer system

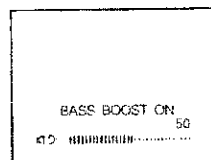
First set the WOOFER EXT./INT. switch on the back of the TV.



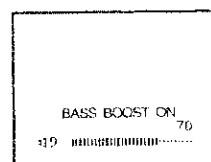
To use the bass boost

The bass boost feature allows you to improve bass performance (even when the sound volume is low).

- 1 Press the button repeatedly until "BASS BOOST ON" is displayed.



- 2 Press the + or - button to adjust the bass boost level.



To turn off the bass boost

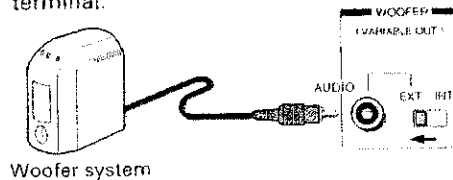
Press the button to display "BASS BOOST OFF".

Note

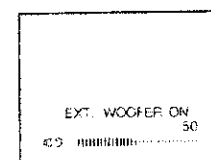
The selected ON or OFF mode and the adjusted level are stored in the sound MEMORY (page 21).

To use the external woofer system

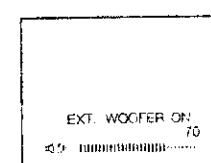
- 1 Connect the external woofer to the woofer terminal.



- 2 Press the button repeatedly until "EXT. WOOFER ON" is displayed.



- 3 Press the + or - button to adjust the woofer level.

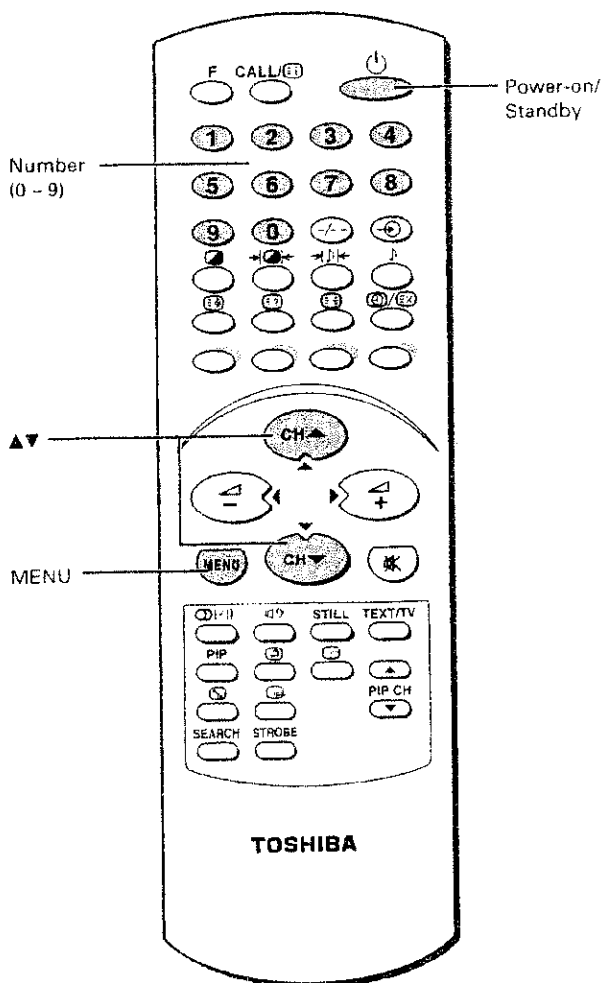
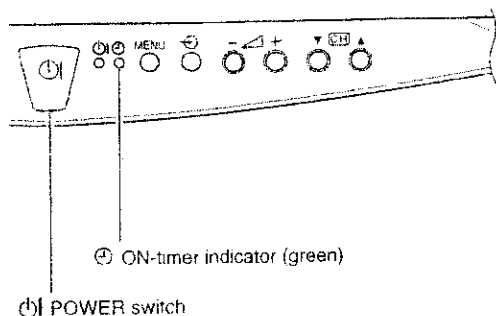


To turn off the external woofer

Press the button to display "EXT WOOFER OFF".

Using Other TV's Features

To use the ON/OFF timer



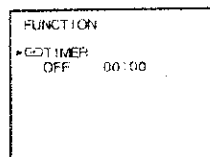
Note

The maximum time delay is 12 hours 59 minutes.

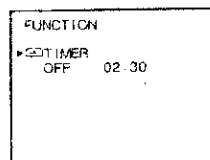
To set the OFF timer

With the OFF timer, the TV will automatically switch to standby mode at a preset time.

- 1 Press the **MENU** button repeatedly to display the **FUNCTION** menu, then press the **▼** or **▲** button to select "OFF".



- 2 Press the **Number** buttons to set the amount of time after which you want the TV to switch into the standby mode.



Ex. 2 hours and 30 minutes:
Press 0, 2, 3 and 0.
Once the preset time has elapsed, the TV will automatically go into standby mode.

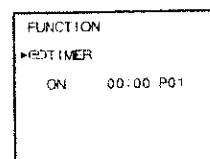
To cancel the OFF timer

Press the **○** button twice (to turn off the TV once and turn it on again) or set the OFF time to 00:00 in step 2 above.

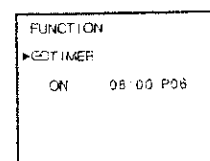
To set the ON timer

With the ON timer, the TV will automatically turn on to a preset channel at a preset time.

- 1 Press the **MENU** button repeatedly to select the **FUNCTION** menu, then press the **▼** or **▲** button to select "ON".



- 2 Press the **Number** buttons to set the TV ON time and position number. The **○** ON-timer indicator will light up in green.



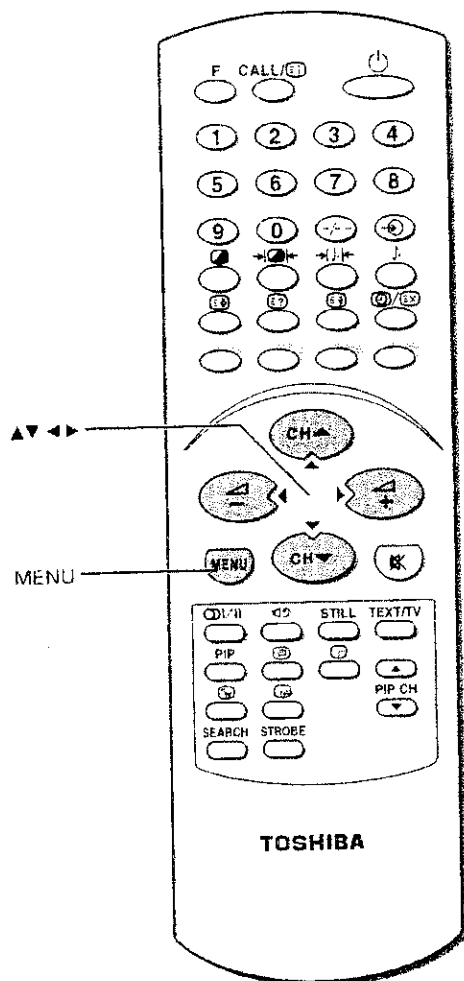
Ex. 8 hours, position number 6:
Press 0, 8, 0, 0 and 6.

- 3 Press the **○** button to switch the TV to standby mode. At the preset time, the TV will turn on automatically.

To cancel the ON timer

Push the **○** **POWER** switch to turn off the TV or set the ON time and position number to 00:00 P00 in step 2 above.

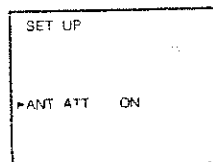
To use the Aerial attenuator



To use the Aerial attenuator

When visual interference occurs, set the Aerial attenuator (ANT ATT) to ON.

- 1 Press the **MENU** buttons repeatedly to display the SET UP menu, then press the **▲** or **▼** button to select "ANT ATT".



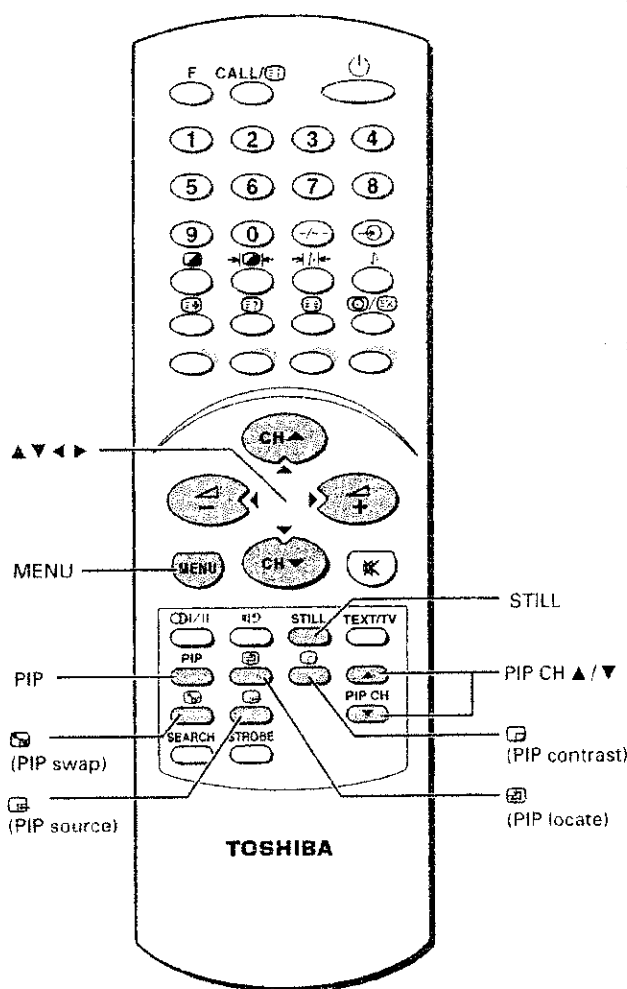
- 2 Press the **◀** or **▶** button to select "ON".

DIGITAL WINDOW

Watching Picture-in-Picture

- This TV is capable of displaying two pictures simultaneously. This is called the Picture-in-Picture (PIP) function. A TV picture or a picture from external source equipment such as a VTR can be displayed as a sub-picture.
- When the main picture is in "DVD" mode and 525p signal source is input, the DIGITAL WINDOW feature (Picture-in-Picture and Multi-Window) is not available (see page 41 for details).

To display a sub-picture

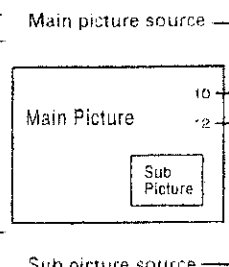


Notes

- If the receiving signals are weak, the Picture-in-Picture function may not work correctly.
- If the color systems of the main picture and sub-picture are different, the size of the sub-picture may slightly differ and the quality of the sub-picture may be impaired.
- The Teletext cannot be displayed as the sub-picture.
- When in the Teletext mode, the PIP function does not operate.

To display a TV broadcast as a sub-picture

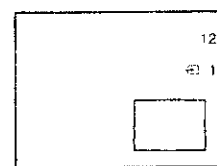
- 1 Select the desired program.
- 2 Press the **PIP** button. A sub-picture will appear on the screen.
- 3 Press the **PIP CH ▲** or **▼** button to select the desired programme for the sub-picture.
- 4 To turn off the sub-picture, press the **PIP** button again.



To display a picture from an external source as a sub-picture

Connect external source equipment for the sub-picture. (For connection, see page 40.)

- 1 Select the desired programme.
- 2 Press the **PIP** button to display a sub-picture.
- 3 Press the **PIP** button repeatedly to select the input source for the sub-picture. A TV picture, the picture from the video input 1 (1), video input 2 (2) and video input 3 (3) will appear cyclically.



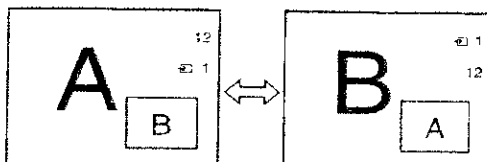
Note

525p signal source from the component video input terminals "2" can not be displayed on the PIP screen.

To use the advanced PIP functions

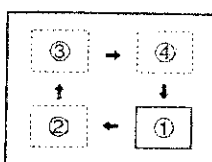
To switch the main and sub-pictures

Press the  button when a sub-picture is displayed. The main and sub-pictures are switched.



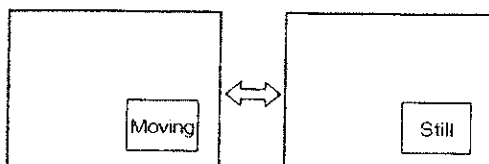
To change the position of the sub-picture

Press the  button repeatedly when a sub-picture is displayed. The display position of the sub-picture will change in order ① to ④.



To freeze the sub-picture

Press the STILL button when a sub-picture is displayed. The sub-picture will be a still picture. To return to a moving picture, press the STILL button again.

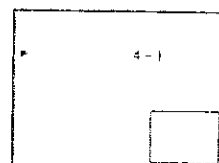


Note

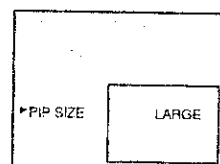
If the PIP picture from the VTR connected is frozen, horizontal stripes may appear on the picture. In this case, use the still function for the main picture. (See page 20.)

To select the size of the sub-picture

- 1 While the PIP is displayed, press the **MENU** button repeatedly to display the WINDOW SET UP menu.

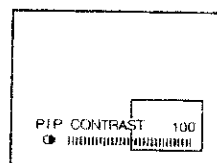


- 2 Press the $\blacktriangle$ or $\blacktriangledown$ button repeatedly to select "PIP SIZE", then press the $\blacktriangleleft$ or $\blacktriangleright$ button to select the size "SMALL" or "LARGE".



To adjust the contrast of the sub-picture

- 1 Press the  button while the sub-picture is on the screen.



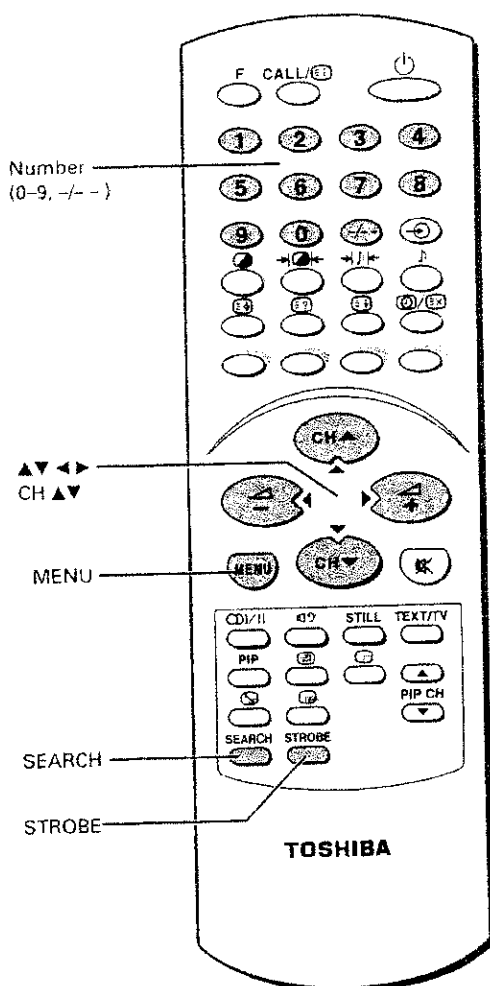
- 2 Press the $\blacktriangleleft$ + or $\blacktriangleright$ - button to adjust the contrast of the sub-picture as you desire.

DIGITAL WINDOW

Multi-Window Function

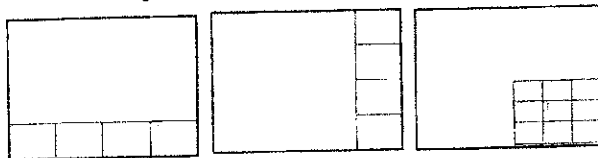
- The Multi-Window function allows you to see all the programs presently aired at once in all the channels that this model could receive.
- The Multi-Window function provides three multi-window modes, 4-I, 4-II and 9-window, to show programs on the screen depending on the number of receivable channels.

Multi-window set up



To select the divided search window

The following three multi-window modes are provided.

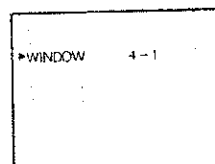


4-I-window

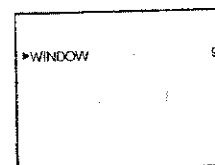
4-II-window

9-window

- 1 Press the **MENU** button repeatedly to display the **WINDOW SET UP** menu, then press the **▲** or **▼** button to select "WINDOW".



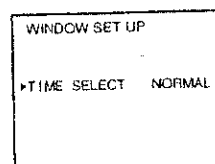
- 2 Press the **◀** or **▶** button to select the desired window.



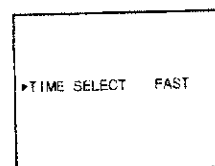
To select the search speed

You can select either search speed "Normal" or "Fast".

- 1 Press the **▲** or **▼** button to select "TIME SELECT" in the **WINDOW SET UP** menu.



- 2 Press the **◀** or **▶** button to select "NORMAL" or "FAST".



You can also change the search speed while searching. See Note on page 33.

Note

During search operation, sound of presently receiving channel on the main picture is heard.

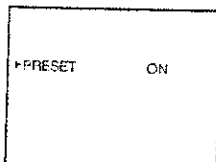
- The Multi-Window function provides two search modes. One is the "Simple Search" that searches from the Position 1 in the order, and the other is the "Preset Search" that allows free setting of the order of search including video input additionally to the positions.

Simple search and window position adjustment

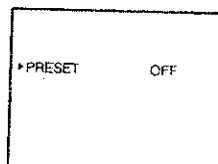
Simple search

Searches from the position 1 in the order.

- 1 Press the **MENU** button repeatedly to display the WINDOW SET UP menu, then press the **▲** or **▼** button to select "PRESET".

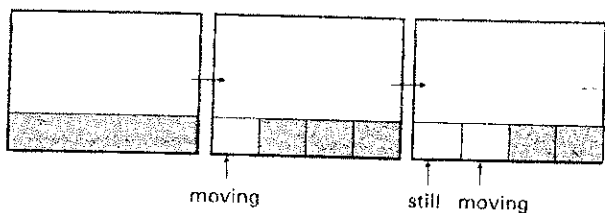


- 2 Press the **◀** or **▶** button to select "OFF".



- 3 Press the **SEARCH** button to start the search operation.

Example: 4-I-window search



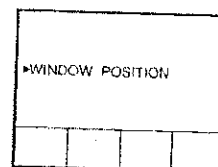
To cancel the simple search
Press the **SEARCH** button again.

To adjust the window position

While in the Multi-Window mode, the different WINDOW SET UP menu is displayed when the MENU button is pressed.

The search speed and window position can be adjusted.

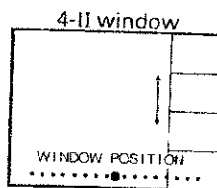
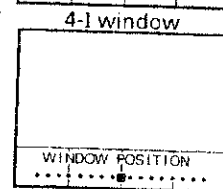
- 1 Press the **MENU** button repeatedly to display the WINDOW SET UP menu, then press **▲** or **▼** to select "WINDOW POSITION".



- 2 Press the **◀** or **▶** button to adjust the window position.

Note

The window position adjustment can not be done for the 9-window search.



Once you have found a desired program during search operation, one-touch channel selection

Press the position number of the desired program with the **Number** buttons (0~9 and **-/**).

To go to the previous or next group

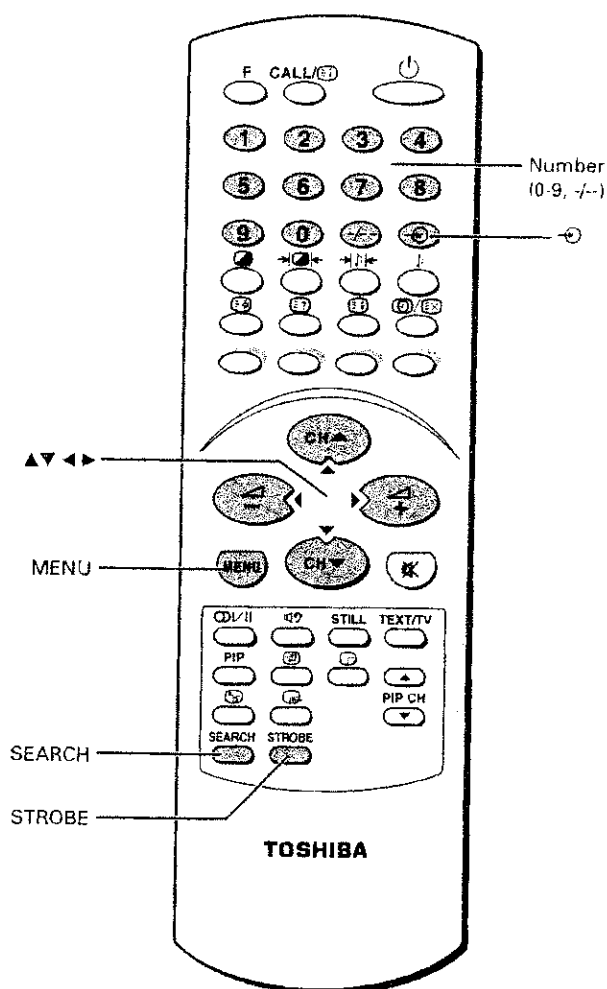
Press the **PIP CH ▲** button to switch to the next group.
Press the **PIP CH ▼** button to switch to the previous group.

Note

Positions to which SKIP ON is specified in the SET UP menu are skipped during the searching operation. On the contrary, positions to which SKIP OFF is specified are searched even if no channel is preset.

Multi-Window Function (continued)

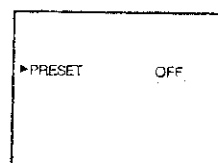
Preset search and Strobe function



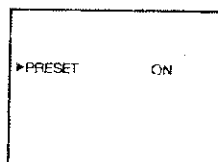
Preset search

You can set any position number you want to set in each window mode.

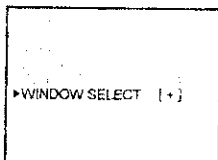
- 1 Press the **MENU** button repeatedly to display the WINDOW SET UP menu, then press the **▲** or **▼** button to select "PRESET".



- 2 Press the **◀** or **▶** button to select "ON".

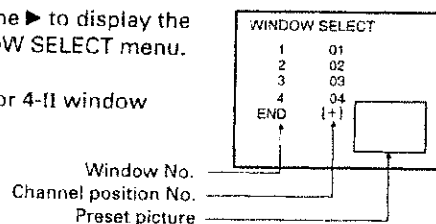


- 3 Press the **▲** or **▼** button to select "WINDOW SELECT".

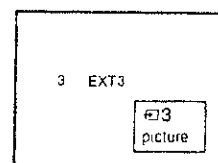


- 4 Press the **▶** to display the WINDOW SELECT menu.

Ex. 4-I or 4-II window



- 5 Press the **▲** or **▼** button to select window No. then press the **Number** (0-9) buttons or **◀** button to preset the channel position.



Ex. ① + ③ → 10
 ◀ → EXT1 (◀①)
 ◀ + ◀ → EXT2 (◀②)
 ◀ + ◀ + ◀ → EXT3 (◀③)

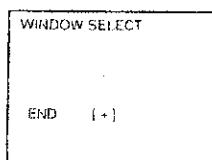
Notes

- 525p signal source from the component video input terminals "◀②" can not be set for the search window.
- When "EXT2 (◀②)" is selected and 525p signal source is input, the WINDOW SELECT menu can not be displayed.

- The Strobe function is convenient when watching a scene at an instant of quickly moving picture such as a sport program.
For example, you can watch a decisive moment of a sport program that has been recorded previously.

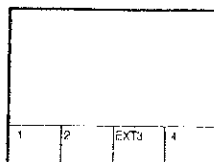
Preset search and Strobe function (continued)

- 6** Press the ▲ or ▼ button to select "END", then press the ► button to end the WINDOW SELECT mode.



- 7** Press the **SEARCH** button to start the search operation.

Ex. 4-1 window mode



Once you have found a desired program during search operation, one-touch channel selection

Press the position number of the desired program with the **Number** buttons (0-9), **+/--** and **⊖** button.

To cancel the Preset search

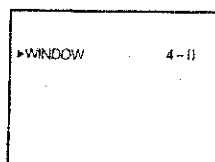
Press the **SEARCH** button again.

Note

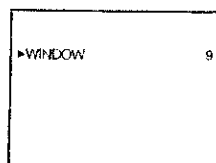
When the component video cables are connected to the **⊖** (2) video 2, you cannot select EXT 2 in the WINDOW SELECT menu. In this case, use a normal VIDEO input connection. (See page 40.)

To select the divided strobe window

- 1** Press the **MENU** button repeatedly to display the WINDOW SET UP menu, then press the ▲ or ▼ button to select "WINDOW".



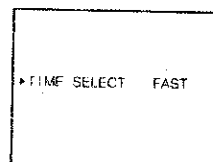
- 2** Press the ◀ or ▶ button to select the desired strobe window.



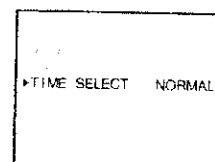
To select the strobe speed

You can select either strobe speed "Normal" or "Fast"

- 1** Press the ▲ or ▼ button to select "TIME SELECT" in the WINDOW SET UP menu.



- 2** Press the ◀ or ▶ button to select "NORMAL" or "FAST".

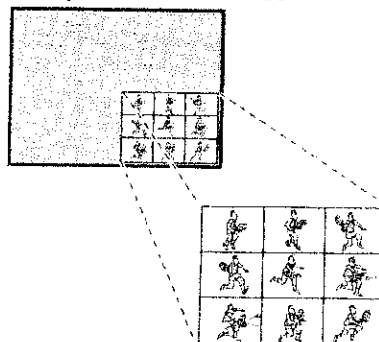


You can also change the strobe speed while executing the strobe function.

To start the strobe operation

Press the **STROBE** button to start the strobe operation. The strobe operation starts for the present picture according to the above setting parameters.

Example. 9-window strobe



To cancel the strobe operation

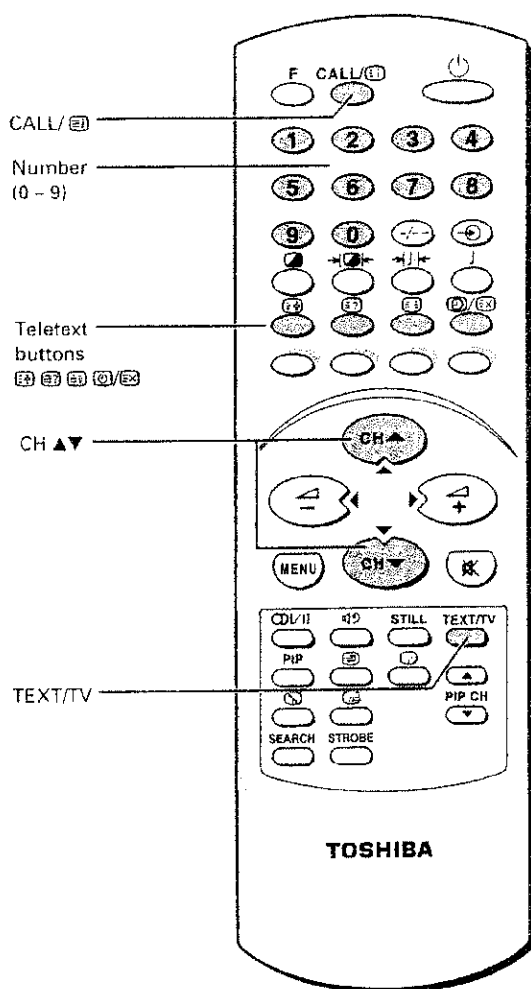
Press the **STROBE** button again.

VIEWING TELETEXT

Normal Text and Teletext Buttons

- This TV is capable of showing both normal text and Fastext information on the screen. The Teletext buttons on the remote control have the same function for both.

To view normal text



To display a page of text (TEXT/TV)

- 1 Select a desired TV station with the text service.
- 2 Press the **TEXT/TV** button. The index page will appear.
- 3 Enter the 3-digit page number using the **Number** buttons (0 - 9).
ex. Page 100: Press 1, 0 and 0.
- 4 Press the **TEXT/TV** button again to super impose the teletext over a normal broadcast picture.
- 5 Press again to return to normal TV mode.

To display an index/initial page CALL/Ⓜ

Press the **CALL/Ⓜ** button if no page number is displayed in the text mode. The index page (FAST mode) or the preset initial page (LIST mode) will appear. For presetting an initial page, see page 39.

To go to the previous or next page (CH ▲▼)

Press the **CH ▼** button to switch to the previous page. Press the **CH ▲** button to switch to the next page.

To stop a page of text (Ⓜ)

When a page is divided into sub pages, it is convenient to hold a given page. Press the **Ⓜ** button to stop the page. "Ⓜ" will appear in the top left of the screen. Press again to release the stop mode.

Note

If you press the **TEXT/TV** button while the Digital Window functions (PIP, MULTI-WINDOW and STROBE) is activated these functions will be cancelled.

To view normal text (continued)

To enlarge the text display size (⏏)

Press the ⏏ button once to enlarge the top half of the page. Press again to enlarge the bottom half of the page, and again to return to the normal (full) size.

Note

When you change a Text page after enlarging the text display size, or when a teletext page with sub code automatically changes, the top half of the page always displayed first.

To see the bottom half of the page with sub code

- (1) Press the ⏏ button when the page is displayed in the full display.
- (2) Select "bottom" by pressing the ⏏ button repeatedly until the bottom half of the page is displayed.

Press the ⏏ button again to release pause.

To select a page while viewing a TV picture (⏏/⏏)

If you press the ⏏/⏏ button in the text mode, a TV picture will be displayed. Enter the desired 3-digit page number using the **Number** buttons, and the selected number will appear on the screen.

To view the selected page, press the **TEXT/TV** button.

Note

When the news flashes or the subtitle is displayed, this function is not available.

To display the time (⏏/⏏) (with the TELETEXT service only)

To display the accurate time on the screen while watching a normal TV picture, press the ⏏/⏏ button. To erase the time display, press the button again.

To reveal concealed text (⏏)

Some pages have sections that are concealed, such as the answers to quizzes and the punchlines of jokes. To see the concealed part, press the ⏏ button. Press again to conceal.

VIEWING TELETEXT

Fasttext and List function

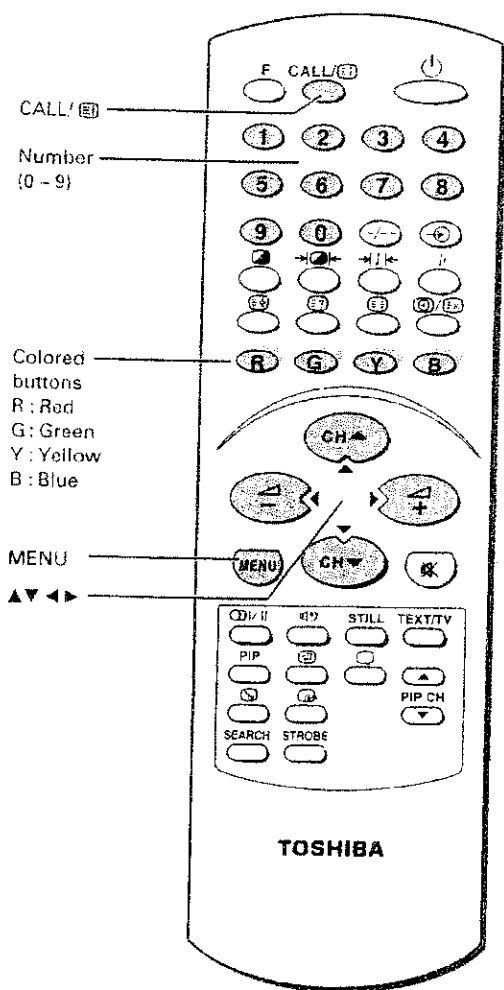
• FASTTEXT

Fasttext is a method of viewing Teletext pages by related subjects grouped by the broadcast studio. You can access any given topic shown on the screen simply by pressing the corresponding colored text select button on the remote control.

• LIST FUNCTION

You can preset up to four of the most frequently used text pages to select these pages easily. In addition to the four pages, you can preset an initial page which will appear first each time you select the text mode.

To view Fasttext

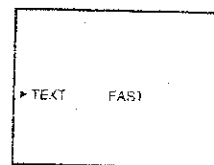


To select the FAST mode

When you select the FAST mode, the four colored prompts appear at the bottom of the screen. The colors correspond to those of the text select buttons on the remote control. Press the corresponding colored button to go to the desired topic page instantly.

1 Select a TV channel with the desired FASTTEXT service.

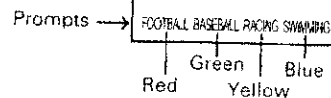
2 Press the **MENU** button repeatedly to display the **FUNCTION** menu, then press **▲** or **▼** button to select "TEXT".



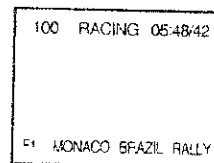
3 Press the **◀** or **▶** button to select "FAST" (Fasttext mode).

To view Fasttext

1 Press the **TEXT/TV** button to select the text mode. Four colored prompts will appear at the bottom of the screen.



2 Press the colored button which corresponds to your desired topic. The display will switch to the selected page.



3 Repeat step 2 to switch to the next topic you want to view.

To return to the normal TV mode

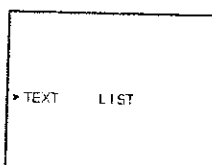
Press the **TEXT/TV** button twice.

Press the **CALL/Ⓜ** button to display an index page.

To preset and view the text pages in the LIST mode

To select the LIST mode

- 1 Press the **MENU** button repeatedly to display the **FUNCTION** menu, then press **▲** or **▼** button to select "TEXT".

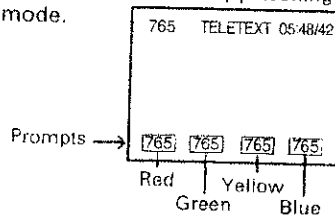


- 2 Press the **◀** or **▶** button to select "LIST" (LIST mode).
- 3 Select a TV channel (0 - 40 only) with the normal TEXT service.

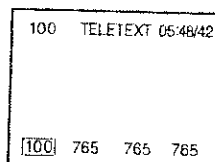
To preset an initial page

- 1 Press the **TEXT/TV** button to select the text mode.

Ex. Factory presetting



- 2 Press the **Number** buttons to enter the 3-digit page number that you want to preset as an initial page.
Ex. page 100: Press 1, 0 and 0.

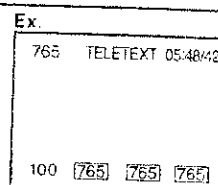


The preset page is displayed on the screen.

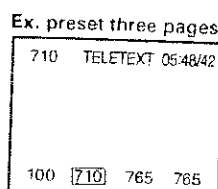
- 3 Press the **R** button momentarily. The four colored prompts turn white momentarily and are stored in memory.

To preset desired pages

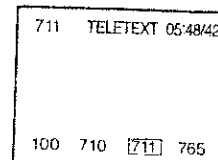
- 1 Press the **G** button.
Three page numbers at the bottom will turn to reverse.



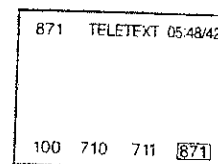
- 2 Enter the 3-digit page number you want to preset by using the **Number** buttons.



- 3 Repeat steps 1 and 2 to preset the other two pages using the **Y** and **B** buttons.



- 4 Press the **B** button momentarily. The four colored prompts will turn to white momentarily and will be stored in memory.



To display an initial page

Press the **CALL/☎** button or **R** button.

To display a desired page

Press the desired colored button according to the four colored prompts on the screen.

Notes

- Presetting the teletext page is possible only for position numbers 0 through 40 when presetting the TV channel with the TELETEXT service. For position numbers 41 and higher, presetting the teletext page is not available.
- You cannot preset the same teletext page twice in the same position.
- When the vacant teletext pages are preset, the colored prompt will be blinking.

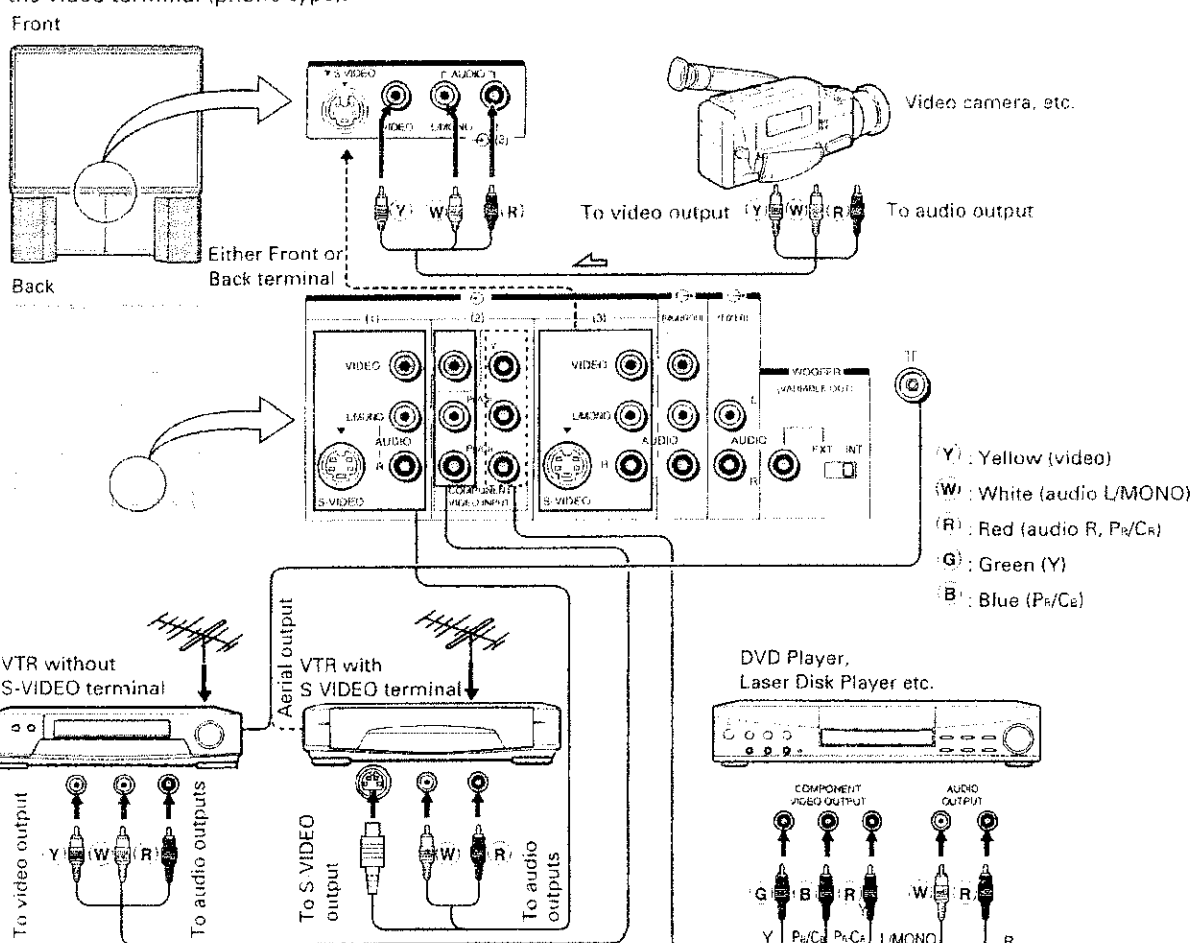
EQUIPMENT CONNECTIONS

External Equipment Connections

- Refer also to the instructions furnished with your connected equipments.

To connect video and audio equipment (Mainly about input terminals)

You can connect video equipments such as a VTR and video camera to this TV and enjoy the high quality picture. If your video equipment has an S-VIDEO terminal, connect it to the S-VIDEO input terminal on the TV. If not, connect it to the video terminal (phono type).



Either Y Pb/Cb Pr/Cb or VIDEO terminal

Note:

- When you use a Toshiba VTR, you can also control the basic VTR functions using the TV's remote controller. See page 11.
- Both the component video Pb/Cb terminal and the audio R terminal are red for easy identification. Make sure these are correctly connected.

Notes on the S-VIDEO terminal

- Connect either the S-VIDEO input terminal or VIDEO input terminal, whichever terminal is used. Do not connect both of these terminals.
- As regards the input terminals of ③(3), connect either the front or rear terminals but not both.

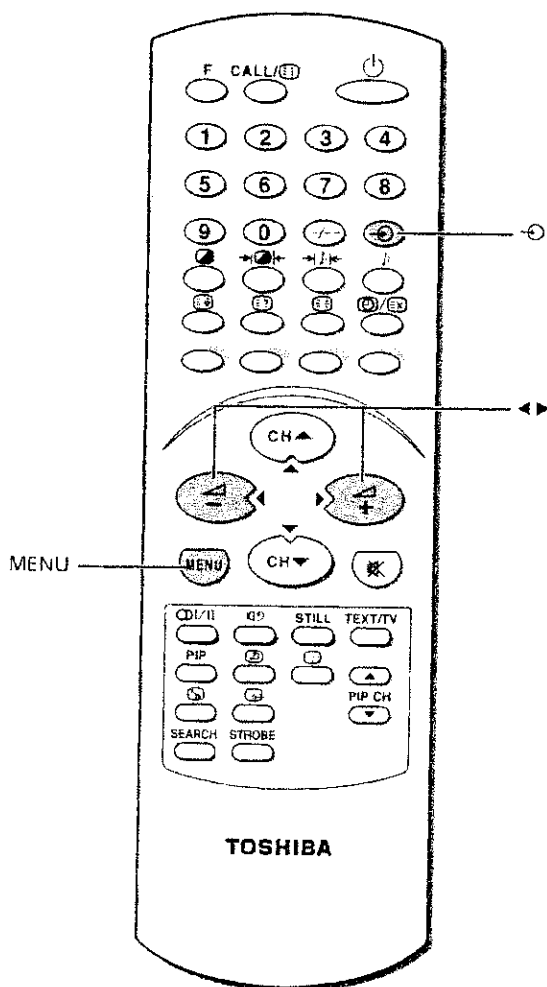
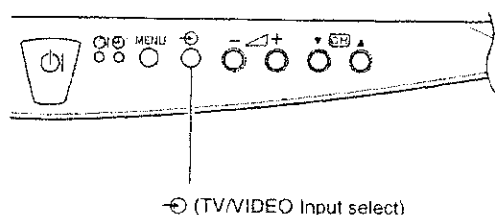
Note on the video 3 VIDEO terminal

Connect either the video 3 VIDEO terminal on the front or one on the rear.

Notes on the COMPONENT VIDEO INPUT terminal

- Connect either the COMPONENT VIDEO INPUT terminal or VIDEO input terminal, whichever terminal is used. Do not connect both of these terminals.

To select the video input source



To select the video input

Press the  button on the TV or on the Remote Control repeatedly until you see the appropriate input indicator on the screen;

-  1 ( (1), video 1 input),
-  2 ( (2), video 2 input),
-  3 ( (3), video 3 input)

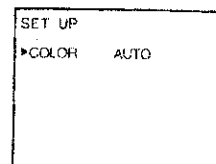
and the position number appear in sequence.

To return to aerial input, press the  button to display a TV picture with a position number.



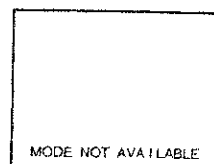
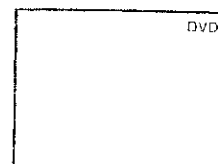
If the color of video input is abnormal

The color system setting may be incorrect. Press the **MENU** button repeatedly to display the SET UP menu. Confirm that "COLOR" is set to "AUTO". If not, select "AUTO" with the  or  button.



Notes

- When video cables are connected to the COMPONENT VIDEO INPUT terminals, the  2 display changes to "DVD".
- When the "DVD" mode is selected, the TELETEXT function are not available. The message will appear shown at the right.
- When the "DVD" mode is selected, and 525p signal source is input from the DVD, the DIGITAL WINDOW feature (Multi-Window and Picture-in-Picture) is not available. The message will appear.
- When the "DVD" mode is selected, the MONITOR terminals output audio signal only.

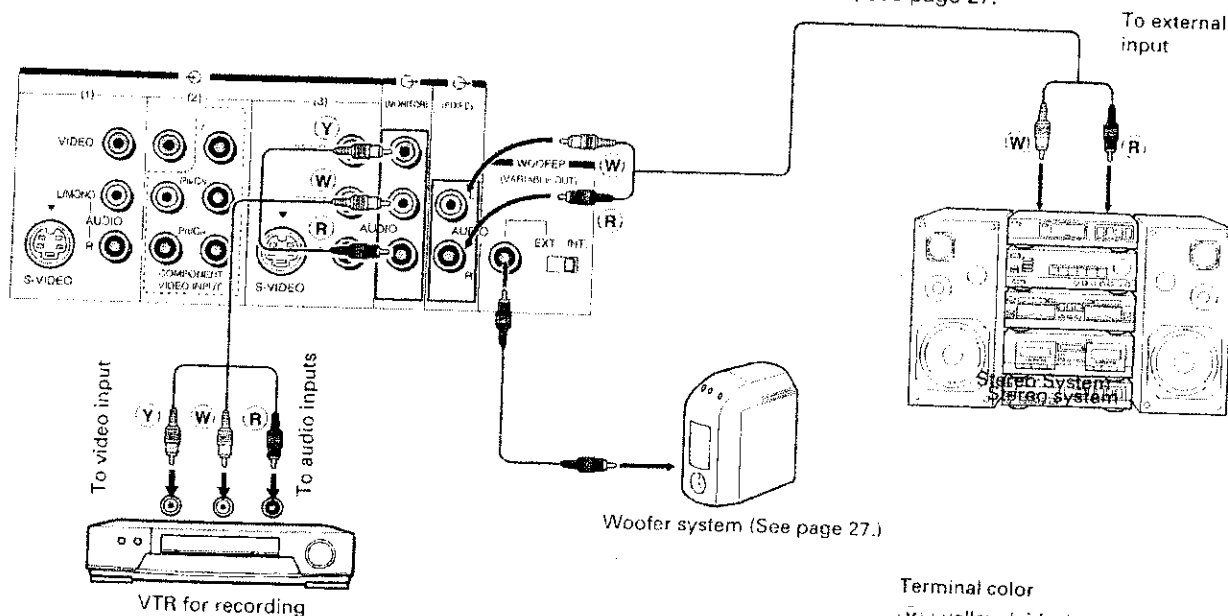


EQUIPMENT CONNECTIONS

External Equipment Connections (continued)

To connect video and audio equipment (Mainly about output terminals)

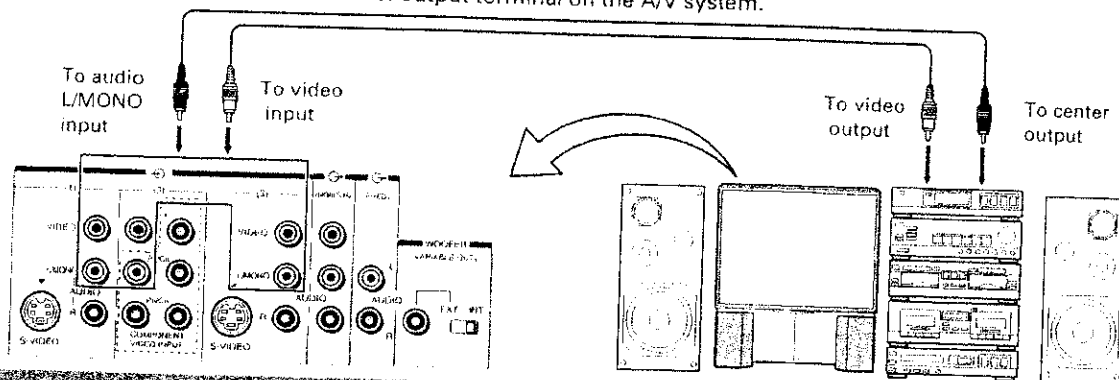
- You can connect a stereo system to the MONITOR and FIXED AUDIO output terminals (phono type) on the TV to enjoy a high-quality sound from the stereo system. The MONITOR output terminals output the video and audio signals being monitored on the TV. The output audio signal level is fixed.
- You can connect a woofer system to the WOOFER output terminals (phono type) on the TV to enjoy a heavy sound. The output woofer level is variable. For detail, see page 27.



Except for personal use, you are not allowed to use video or sound you have recorded without consent of the owner of copyright according to the Copyright Law.

An example of connecting as AV system

You can use the TV speakers as a center channel speaker by connecting the AUDIO L/MONO terminal (-(1), -(2) or -(3)) on the TV to the center channel output terminal on the A/V system.



A Guide to Simple Problem Solving

- Before calling service personnel, please check the following chart for a possible cause to the trouble you are experiencing.

Symptom	Check these things
The TV does not turn on.	• Be sure the power cord is plugged in.
No sound	• Headphones may be plugged in. • Adjust the sound volume.
Poor color/tint	• May be the misadjustment for contrast, color and tint.
Spots appear on the screen.	• May be jamming from cars, motorcycles, electric trains, high tension lines, neon signs, hair dryers, etc.
Lines appear on the screen.	• May be jamming from other TV receivers, personal computers, and TV games, as well as interference from radio station.
Double or triple images	• May be due to broadcast waves reflected from mountains or buildings. • Check if the direction of the aerial has changed because of strong wind, etc.
Snowy picture	• The aerial lead-in may be broken or disconnected. • Check if the direction of the aerial has changed.
Remote control does not work.	• The batteries in the remote control may be exhausted. • The batteries may be improperly installed. • Check that there is no obstruction between the remote control and the remote sensor. • Be sure the Power switch is set on (standby).

The following phenomena are not failures

The cabinet clicks.	• The clicking is a creaking sound produced when the cabinet expands or contracts due to changes in the temperature. This will not affect the picture or sound.
Unevenness in color sometimes develops in part of the screen.	• If the screen is set brightly, such unevenness in color may occur depending upon the nature of the picture. The proper color can be restored by reducing the contrast. Consult your local dealer.

Broadcast Transmission Systems in Each Country or Region

Area	Country or Region	System	
		Color	Sound
Asia M. E.	Bahrain, Kuwait, Israel, Oman, Qatar, United Arab Emirates, Yemen, etc.	PAL	B/G
	Indonesia, Malaysia, Singapore, Thailand, etc.	PAL	B/G
	China	PAL	D/K
	China Hong Kong	PAL	I
	Iraq, Islamic Republic of Iran, Lebanon, Saudi Arabia, etc.	SECAM	B/G
	Russian Federation, etc.	SECAM	D/K
	Myanmar, etc.	NTSC	M
Oceania	Australia, New Zealand, etc.	PAL	B/G
Africa	Republic of South Africa, etc.	PAL	I
South America	Argentina, Paraguay, Uruguay, etc.	PAL	N
	Brazil	PAL	M
	Chile, Colombia, etc.	NTSC	M

- Notes: • "B/G" and "D/K" will be displayed as "BG" and "DK" on the screen.
 PAL, SECAM and NTSC3.58 (MHz) are different color signal broadcast transmission systems applicable to different countries. NTSC4.43 (MHz) is used in special VTRs to playback NTSC recorded video tapes through PAL television equipment.
- Refer to the Specifications table on the next page to find the receivable television systems for this TV.

REFERENCE

Specifications

MODEL		61A9UE / 61A9UA			
Rated voltage		~ 110 - 127, 220-240 V, 50/60Hz			
Power consumption (at ~ 220 V, 50 Hz)		260 W (1 watt or less at standby / 0 watt at  switch off)			
Dimensions (Width x Depth x Height)		1293 mm x 653 mm x 1450 mm			
Mass		109.5 kg			
Screen size		Type 61 (154 cm)			
Television system (Aerial input)	Channel coverage	System	VHF	UHF	CATV (channels)
		PAL B/G (CCIR)	2 - 12	21 - 69	X ~ Z+2, S1 ~ S41
		PAL I (UK)	—	21 - 69	—
		PAL D/K (CHINA)	1 - 12	13 - 57	Z-1 ~ Z-38
		SECAM B/G (CCIR)	2 - 12	21 - 69	X ~ Z+2, S1 ~ S41
		SECAM D/K (OIRT)	1 - 12	21 - 69	X1 ~ X19
		NTSC M (US)	2 - 13	14 - 69	A-6 ~ A-1, A ~ W, AA ~ ZZ, AAA, BBB
		NTSC M (JAPAN)	1 - 12	13 - 62	M1 ~ M10, S1 ~ S41
	Special RF signal	Color system	Sound system		
		4.43NTSC PAL 60Hz	5.5/6.0/6.5 MHz 5.5/6.0/6.5 MHz		
Color system		PAL/SECAM/NTSC4.43/NTSC3.58			
Audio power		20 W x 2			
Accessories		• Remote Control x 1 • Battery (R03, AAA) x 2 • Caster tray x 4			

Design and specifications are subject to change without notice.

Design and specifications are subject to change without notice.

Help to recycle, this product indicate material name on main plastic parts.

TOSHIBA CORPORATION