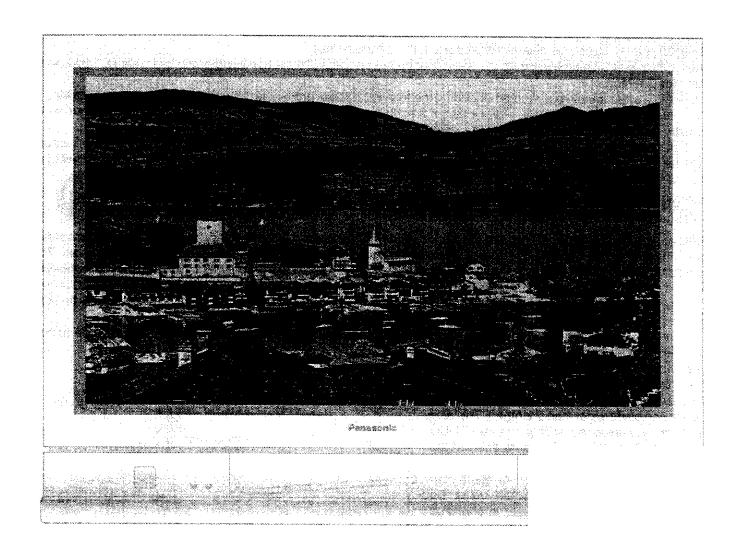


Panasonic[®]

Wide Screen TV Operating Instructions

Model No.

CT-34WX50



For assistance, please call: 1-800-211-PANA (7262)

or send e-mail to: consumerproducts@panasonic.com

Important Safety Instructions



WARNING

RISK OF ELECTRIC SHOCK
DO NOT OPEN



WARNING: To reduce the risk of electric shock do not remove cover or back. No user-serviceable parts inside. Refer servicing to qualified service personnel.



The lightning flash with arrow-head within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.

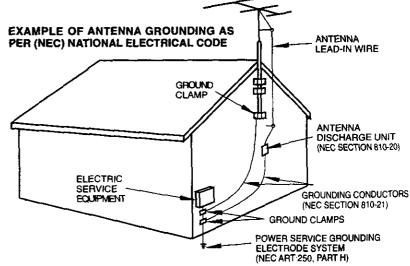


The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

Note to CATV System Installer: This reminder is provided to direct 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.

Important Safety Instructions For Television Receivers

- 1. Read and apply the operating instructions provided with your television receiver.
- 2. Read all of the instructions given here and retain them for later use.
- 3. Unplug this television receiver from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- 4. Do not use attachments not recommended by the television receiver manufacturer as they may cause hazards.
- 5. Do not use this television receiver near water. For example: Avoid placing it near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
- 6. Do not place this television receiver on an unstable cart, stand or table. The television receiver may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart or stand recommended by the manufacturer, or sold with the television receiver.
- 6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
- 7. Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to insure reliable operation of the television receiver and to protect it from overheating. These openings must not be blocked or covered. There should be at least 10 cm of space from these openings. The openings should never be blocked by placing the television receiver on a bed, sofa, rug or other similar surface. This television receiver should never be placed near or over a radiator or heat radiator. This television receiver should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.
- 8. Operate only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home consult your television dealer or local power company.
- 9. This television receiver is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- 10. Do not allow anything to rest on the power cord. Do not locate this television receiver where the cord will be abused by persons walking on it.
- 11. Follow all warnings and instructions marked on the television receiver.



- 12. Do not overload wall outlets and extension cords as this can result in fire or electric shock.
- 13. Never push objects of any kind into this television receiver through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the television receiver.
- 14. If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. In the U.S.Selection 810-21 of the National Electrical Code and in Canada Part 1 of the Canadian Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure.
- 15. For added protection for this television receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the receiver due to lightning and power-line surges.
- 16. An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- 17. Unplug this television receiver from the wall outlet, and refer servicing to qualified service personnel under the following conditions:
 - a. When the power cord or plug is damaged or frayed.
 - b. If liquid has been spilled into the television receiver.
 - c. If the television receiver has been exposed to rain or water.
 - d. If the television receiver does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the television receiver to normal operation.
 - e. If the television receiver has been dropped or the cabinet has been damaged.
 - f. When the television receiver exhibits a distinct change in performance this indicates a need for service.
- 18. Do not attempt to service this television receiver yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 19. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 20. Upon completion of any service or repairs to this television receiver, ask the service technician to perform routine safety checks to determine that the television is in safe operating condition.
- 21. WARNING: To prevent fire or shock hazard, do not expose this appliance to rain or moisture.
- 22. CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH A RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.
- 23. CAUTION: This TV set for use only with TV-stand (Model:TY-S34WX50)

 Use with other stand is capable of resulting in instability causing possible injury.

NOTE: This equipment is designed to operate in the U.S.A., Canada and other countries where the broadcasting system and AC house current is exactly the same as in the U.S.A. and Canada.

Important Information Regarding Use of Video Games, Computers, Caption or Other Fixed Image Displays.

The extended use of fixed image program material can cause a permanent "shadow image" on the picture tube. This background image is viewable on normal programs in the form of a stationary fixed image. This type of irreversible picture tube deterioration can be limited by observing the following steps:

- A. Reduce the brightness/contrast setting to a minimum viewing level.
- B. Do not display the fixed image for extended periods of time.
- C. Turn the power off when not in actual use.

NOTE: The marking or retained image on the picture tube resulting from fixed image use is not an operating defect and as such is not covered by Warranty. This product is not designed to display fixed image patterns for extended periods of time.

Dear Panasonic Customer

Welcome to the Panasonic family of customers. We hope that you will have many years of enjoyment from your new color television set.

To obtain maximum benefit from your set, please read these Instructions before making any adjustments, and retain them for future reference.

Retain your purchase receipt also, and note down the model number and serial number of your set in the space provided on the back cover of these instructions.

Visit our Panasonic Web Site for USA

www.panasonic.com

for Canada :

www.panasonic.ca

For assistance, please call: 1-800-211-PANA(7262) or send e-mail to: consumerproducts@panasonic.com

FCC CAUTION:

Pursuant to 47CFR, Part 15.21 of the FCC rules, any changes or modifications to this monitor not expressly approved by Matsushita Electric Corporation of America could result in harmful interference and would void the user's authority to operate this device.

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Installation

Receiver Location

This unit is intended to be used with an optional stand or entertainment center. Consult your dealer for available options. Locate for comfortable viewing. Avoid placing where sunlight or other bright light (including reflections) will fall on the screen.

Use of some types of fluorescent lighting can reduce remote control transmitter range.

Adequate ventilation is essential to prevent internal component failure. Keep away from areas of excessive heat or moisture. To insure optimum color purity do not position magnetic equipment (motors, fans, other speakers, etc.) nearby.

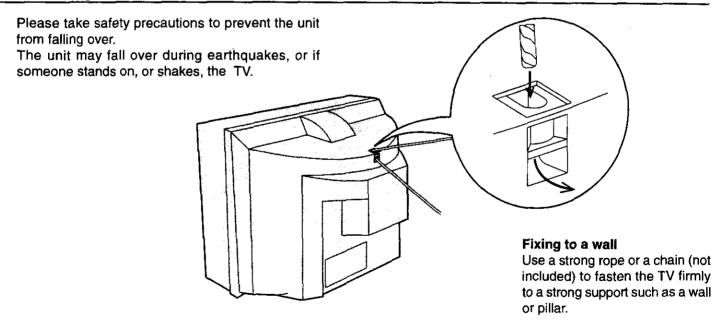
Optional External Equipment

The Video/Audio connection between components can be made with shielded video and audio cables. For best performance, video cables should utilize 75 ohm coaxial shielded wire. Cables are available from your dealer or electronic supply store. Before you purchase any cables, be sure you know what type of output and input connectors your various components require. Also determine the length of cable you'll need.

AC Power Supply Cord

CAUTION: To prevent electric shock, match wide blade of plug to wide slot of AC outlet and fully insert. Do not use this (polarized) plug with a receptacle or other outlet unless the blade can be fully inserted to prevent blade exposure.

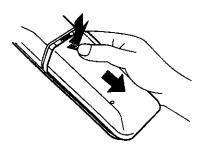
Safety Precaution

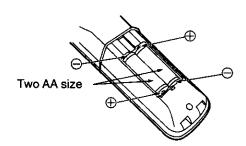


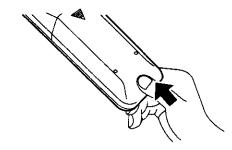
Remote Control Battery Installation

Requires two AA batteries.

- Turn the Transmitter face down. Remove top cover by pressing down on marking and sliding cover off in the direction indicated.
- Install the batteries as shown in the battery compartment. (Polarity + or – must match the markings in the compartment).
- 3. Replace the cover and slide in reverse until the lock snaps.







Helpful Hint:

For frequent remote control users, replace old batteries with Alkaline batteries for longer life.

Note: In order to maximize the life of the batteries, the lighted buttons on the Remote Control can be turned OFF and ON by pressing R-TUNE and RECALL at the same time.

⚠ Precaution on battery use

Incorrect installation can cause battery leakage and corrosion that will damage the remote control transmitter. **Observe the following precautions:**

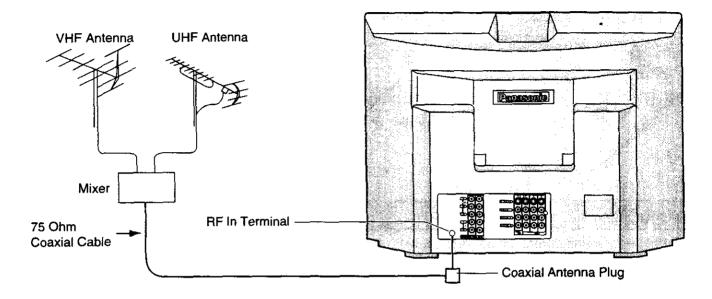
- 1. Batteries should always be replaced as a pair. Always use new batteries when replacing the old set.
- 2. Do not combine a used battery with a new one.
- 3. Do not mix battery types (example: "Zinc Carbon" with "Alkaline").
- 4. Do not attempt to charge, short-circuit, disassemble, heat or burn used batteries.
- 5. Battery replacement is necessary when remote control acts sporadically or stops operating the TV set.

Helpful Hint:

Whenever you remove the batteries, you may need to reset the remote control infrared codes. We recommend that you record the code on page 62, prior to setting up the remote.

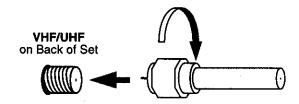
Connecting the Antenna Cable to the RF In Terminal

Antenna Connection - For proper reception of VHF/UHF channels, an external antenna is required. For best reception an outdoor antenna is recommended. Antenna Mode must be set to TV.



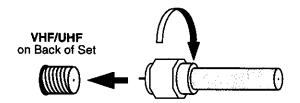
Antenna / Cable Connection

Incoming Cable From Home Antenna (75 Ohm)



Incoming 75 Ohm Cable (From Cable Company)

Cable Connection - For reception of cable channels (01 - 125) connect the cable supplied by your local cable company. Antenna Mode must be set to CABLE. (Refer to Antenna Mode section.)

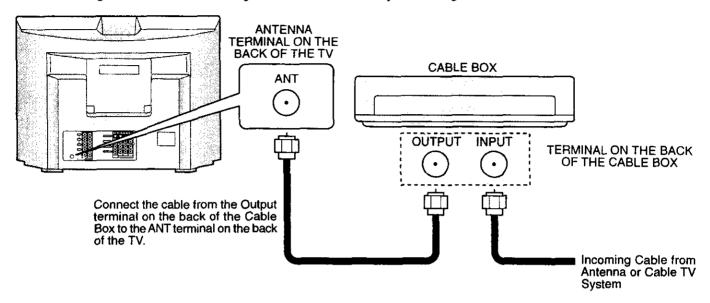


Note:

Certain cable systems offset some channels to reduce interference or have Premium (scrambled) channels. A cable converter box is required for proper reception. Check with your local Cable company for its compatibility requirements.

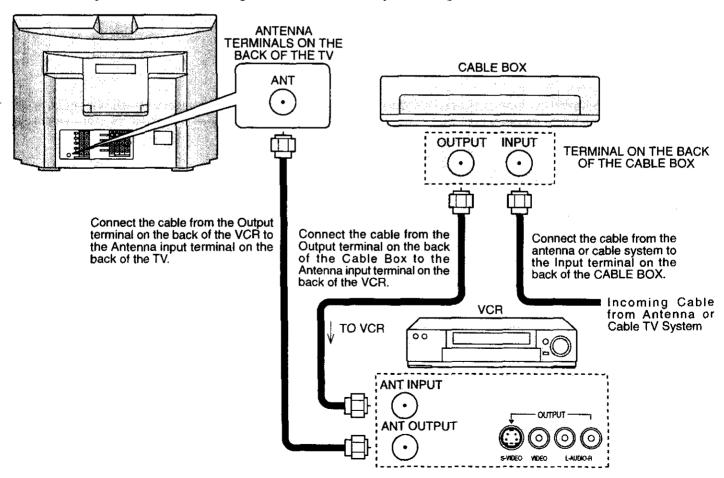
Antenna Connection (Cable Box, no VCR)

Use this configuration when connecting the TV to a cable TV system using a Cable Box.



Antenna Connection (Cable Box, and VCR)

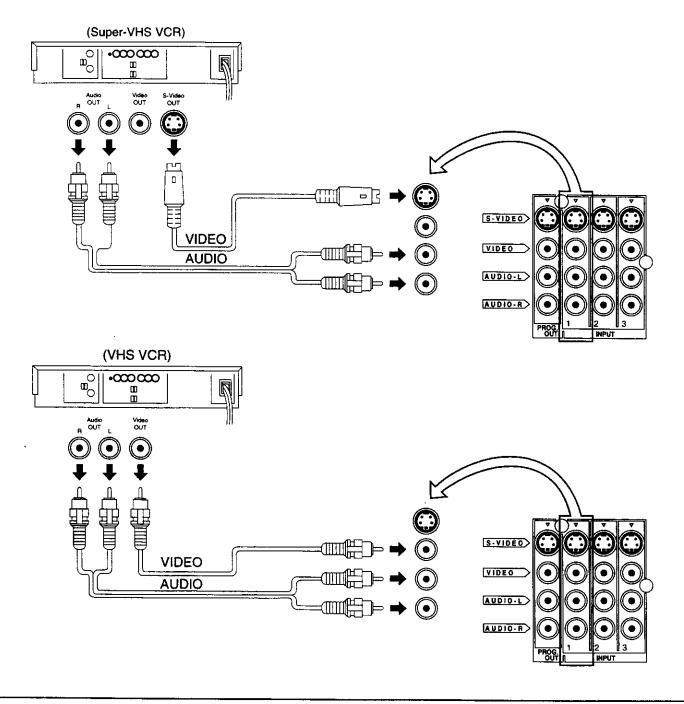
Use this configuration when connecting the TV to a cable TV system using a Cable Box and VCR.



Note: When the antenna cable is connected to the TV antenna terminal via a cable box or VCR, set the TV channel to CH3 or CH4, cable. This does not apply when signal is input from VIDEO INPUT.

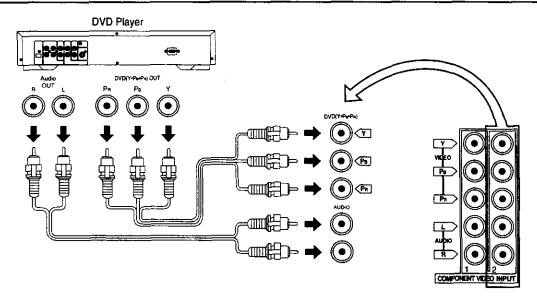
How to connect the "1, 2, 3, 4" input terminals

Connects VCRs and other peripheral equipment



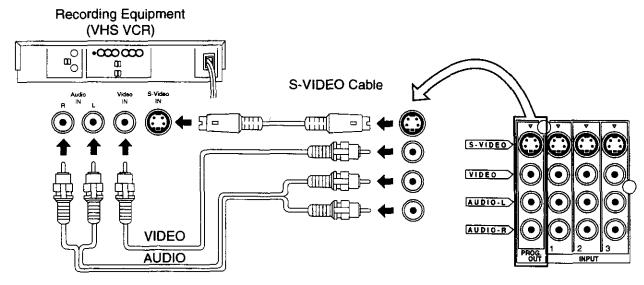
- (1) When a monaural VCR is used, connect the monaural audio cable to the AUDIO-L (Left) terminal.
- (2) Similar connections are available at the INPUT 1, 2, 3, 4 input terminals. Input 4 is located on the front of the unit.
 - Select the desired VIDEO input position by pushing the TV/VIDEO button. (See page 29)
- (3) When connecting video cables, priority is given to the S-Video cable when the S-Video input terminal and the video input terminal are connected at the same time.

How to connect the COMPONENT VIDEO Input Terminals



How to connect the AV Prog. Out Terminals

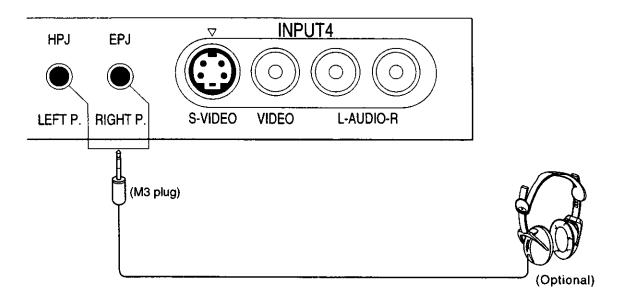
The "Prog. Out" Terminals output the same signals as main picture on the TV screen and sound from the speaker at that time, e.g. TV programs or signals from INPUT 1, 2, 3, 4 terminals.



- (1) Never connect the VIDEO IN and Prog. OUT terminals to the same video recorder, as this could cause incorrect operation.
- (2) The monitor output emits the main picture normal video and audio signals.
- (3) Even if the television is in picture-out-picture condition, Prog. OUT terminals output the same signals as main picture on the screen and sound from speaker. Sub picture including strobe, still, channel search, etc. will not be output at the PROG. OUT terminals.
- (4) DVD signal (Y, PB, PR) is not output at the Prog. OUT terminals.
- (5) COMPONENT VIDEO INPUT
 - In order to prevent colors from interfering, image signals are divided into three signals of brightness, red and blue (green is created automatically from these three signals). Each signal is processed from its own circuit and combined on the screen, creating a natural picture.

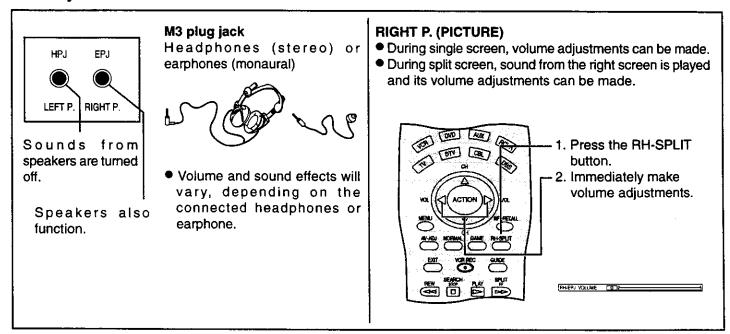
Connecting Headphones / Earphones

Connect headphones / earphones as follows.



You can listen to sound from each of the headphones Jacks as shown below.

Front jack



LEFT headphones plug:

When a LEFT headphones plug is inserted into the LEFT headphones socket, all speakers will be automatically disconnected; only the headphones will function.

Use Volume Up ▷ or Down < button to control volume level.

Location of Controls

Illuminated Remote Control

Power button -

Press to turn the TV ON or OFF (See page 19).

Note:

The TV's power cord must first be plugged into the wall outlet and then turned on at the POWER switch (standby mode).

MUTE button -

Push this button to mute the sound (See page 31).

OVO

Mode Selection buttons

Selects the operation mode for the remote control. (See page 60)

Digital TV Mode Selection for Remote Control -

Digital Video Disk Mode Selection for Remote Control

VCR Mode Selection for Remote Control

TV Mode Selection for Remote Control

_Digital Broadcasting Satellite for Remote Control

Receiver/Amplifier Mode Selection

Cable TV Mode Selection for Remote Control

- Aux Mode Selection for Remote Control

for Remote Control

Operation of other Device

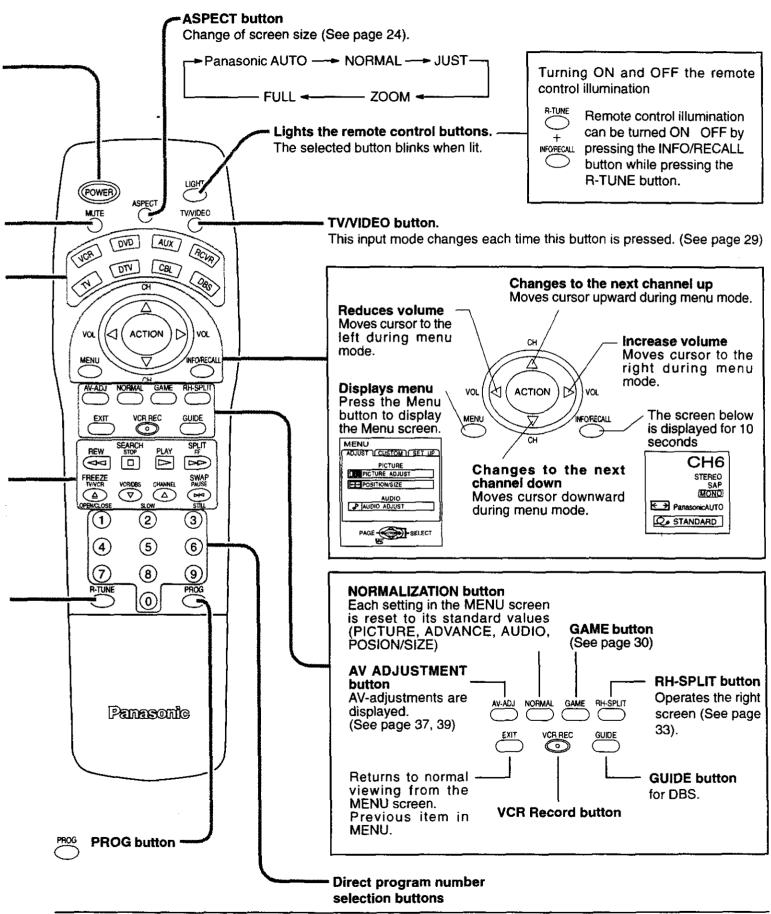
Buttons	₩ W			
TV		Split Search		Split ON/OFF
VCR	REW	STOP	PLAY	FF
CABLE/DBS				
DVD/LD/CD	Skip Search REW	STOP	PLAY	Skip Search FF
RCVR	Surround -			Surround +

Buttons	\triangle	\bigcirc	Δ	(¥)
TV	Split Freeze		<u></u>	Split Swap
VCR	TV/VCR switch	Channel down	Channel up	Pause
CABLE/DBS		Channel down	Channel up	
DVD/LD/CD	Open/Close	Slow -/LD-sideB /Random	Slow +/LD-sideA /Repeat	Still/Pause
RCVR		Center –	Center +	

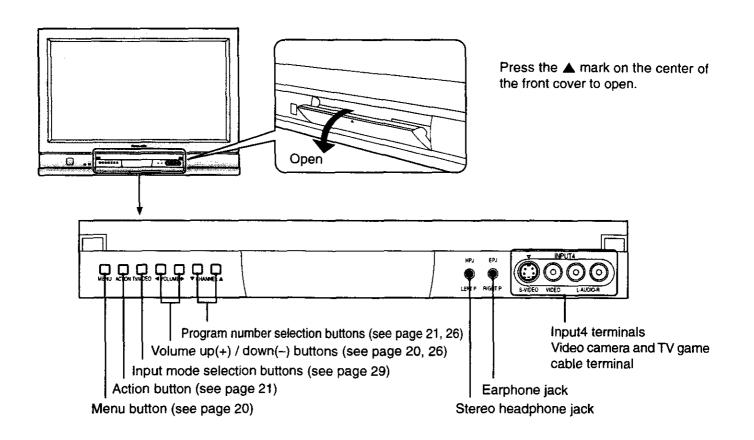
R-TUNE

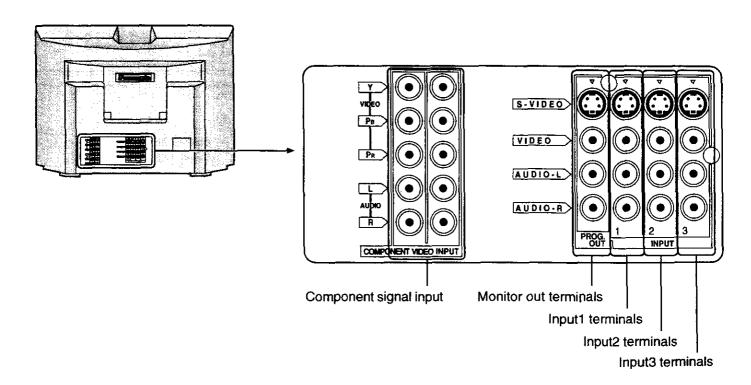
R-TUNE button --

Switches to previously view to channel or video mode.



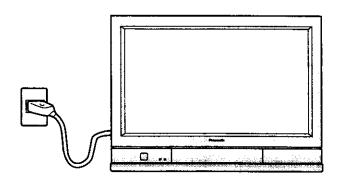
Controls and Terminals on the TV





Power ON / OFF

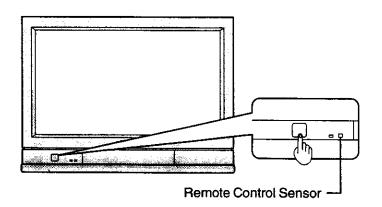
Connecting the Plug to the Wall Outlet



Note:

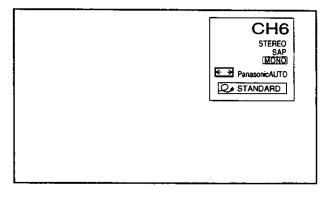
Main plug types vary between countries. The power plug shown at left may, therefore, not be the type fitted to your set.

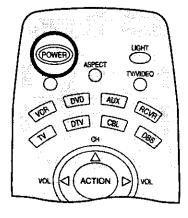
How to Turn the Power On



Push the POWER switch on the TV to turn the set on. POWER-ON: Green

Example: The screen below is displayed for a while after the TV is turned on. (setting condition is an example.)





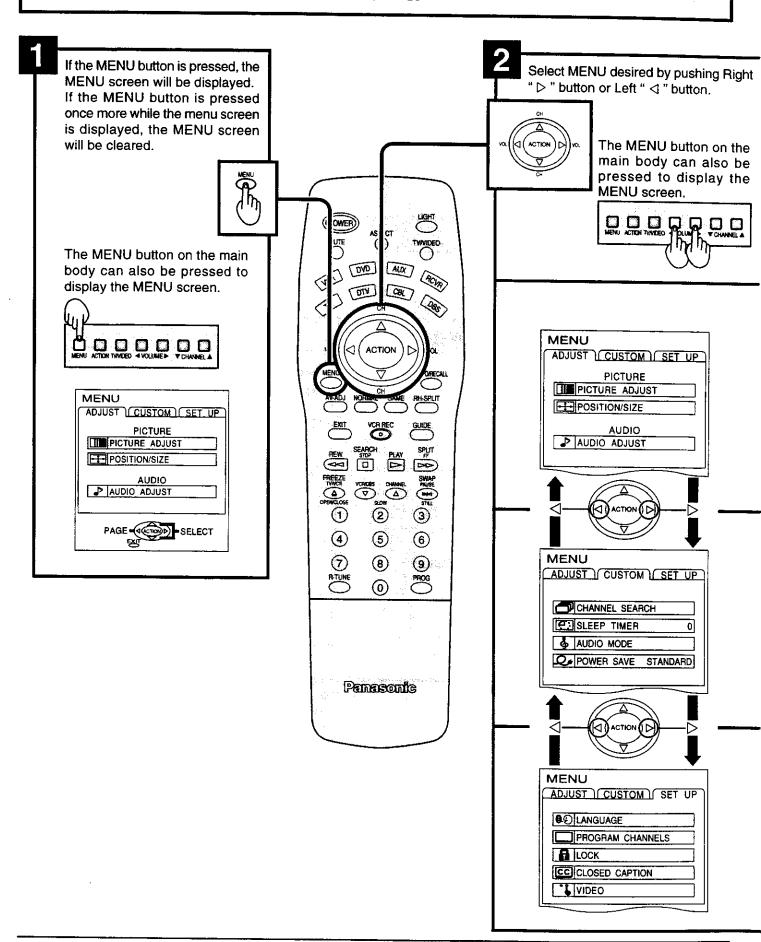


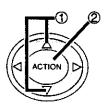
Press the POWER button on the remote control to turn the TV off: Red (standby)

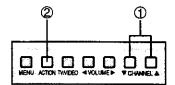
Press the POWER button on the remote control to turn the TV on: Green

Turn the power to the TV set off by pressing the POWER switch on the TV when the TV is on or in standby mode.

Flow Chart of Main Menu

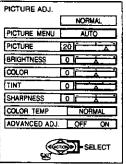






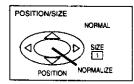
The MENU button on the main body can also be pressed to display the MENU screen.

TO PICTURE ADJUST menu

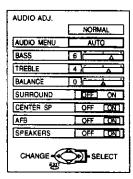


ADVANCED ADJUST NORMALIZE	
VM GAIN	1
BLACK EXTENSION	
WHITE CHAR CORR	1
COLOR TEMP CORR	1

TO POSITION/ SIZE



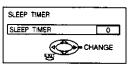
TO AUDIO ADJUST menu



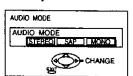
TO CHANNEL SEARCH screen



TO SLEEP TIMER adjust screen



TO AUDIO MODE adjust screen

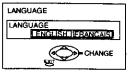


TO POWER SAVE adjust screen

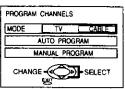


TO LANGUAGE

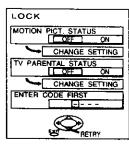
selection screen



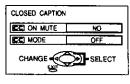
TO PROGRAM CHANNELS adjust screen selection screen PROGRAM CHANNELS



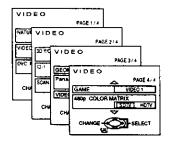
TO LOCK



TO CLOSED CAPTION selection screen



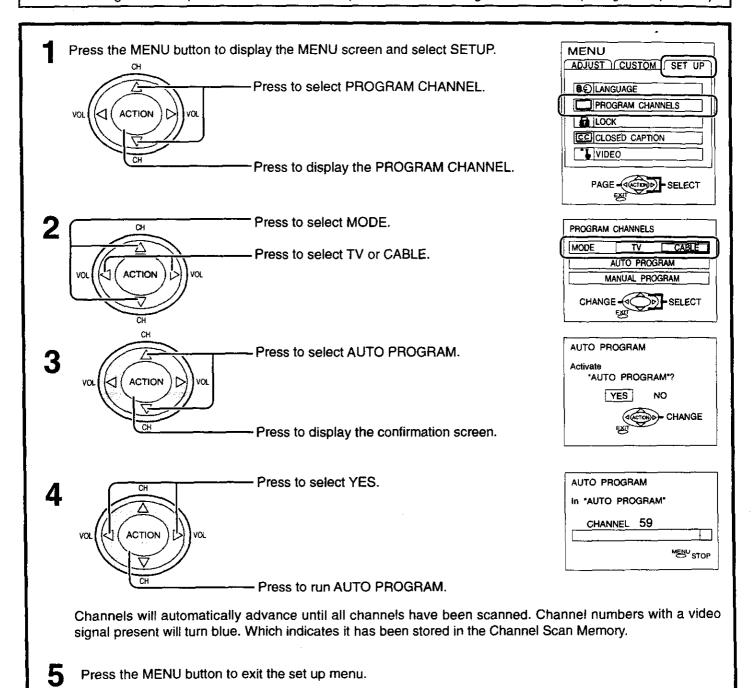
TO VIDEO adjust screen



Tuning channels (Automatic channel programming)

Automatically searches and adds receivable channels in the installed area and/or CATV signals to the program.

Channel tuning cannot be performed when the MAIN picture is not receiving a TV broadcast (tuning is not possible).



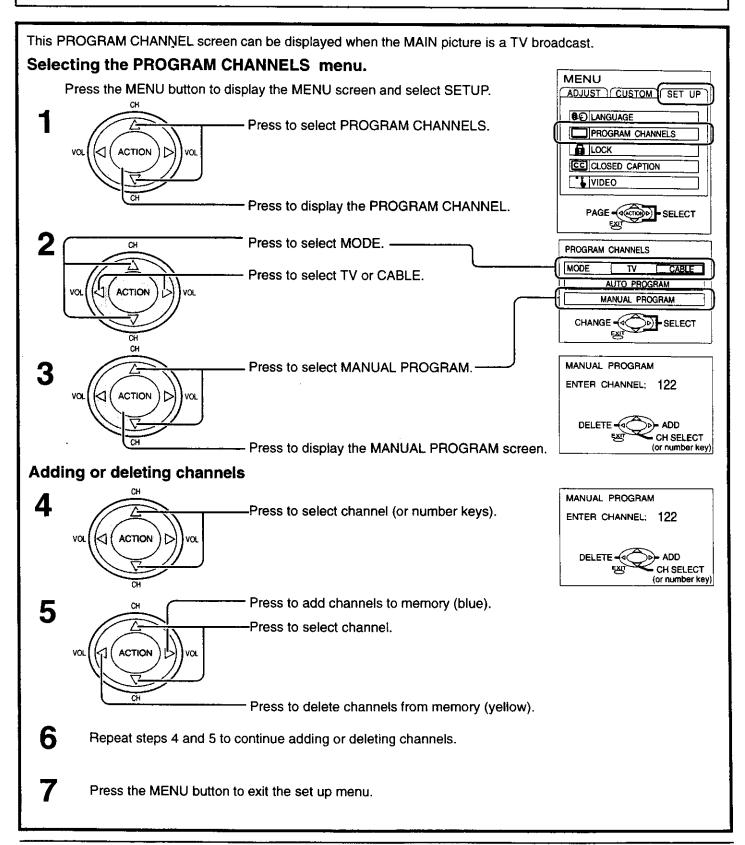
Notae:

- When buttons are pressed with AUTO PROGRAM running, the TV set will return to normal viewing. (Channels searched up to this point are added.)
- After AUTO PROGRAM is finished, the lowest channel number added will be received.
- When there are no receivable channels, channel 69 is displayed (channel 125 for cable TV).

Tuning channels (Manual channel programming)

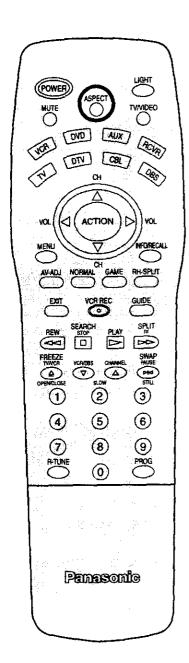
Use this setting when changing setting of receiving channels or changing the channel display.

Turn the TV on and select the broadcast channel. Follow the steps on the previous page to display the PROGRAM CHANNEL screen.



ASPECT Controls

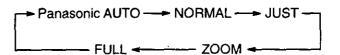
The color monitor will allow you to enjoy viewing the picture at its maximum size, including wide screen cinema format picture.





ASPECT button

The aspect mode changes each time the ASPECT button is pressed.



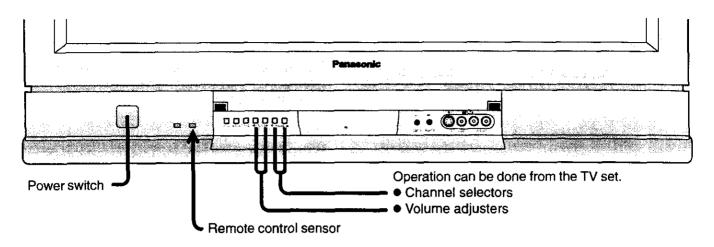
- (1) For a 480p signal input during component input signal mode, the mode switches ZOOM and FULL only.
- (2) When a 1080i signal is being received, the mode is set to FULL, and aspect switching is not possible.
- (3) During split screen, modes will change as follows:

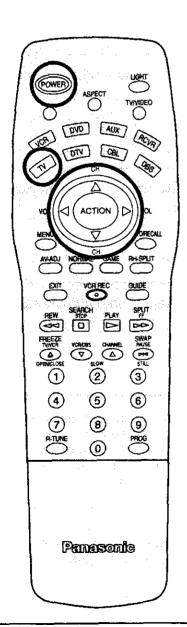


mode	Picture	Explanation
Panasonic AUTO	For an elongated image Changes in accordance with the Panasonic AUTO mode setting (Refer to page 24) For a 4:3 image	The display will automatically become enlarged (depending on the picture source), allowing you to view the picture at its maximum size. Note: (1) Panasonic Auto Mode is designed to automatically adjust the aspect ratio to handle a mix of 16:9 and 4:3 program material. Certain 4:3 program material, such as stock market data screens, may occasionally cause the image size to change unexpectedly. When viewing such programming, it is recommended that the ASPECT be set to NORMAL. (2) There may be a slight delay for the screen size to adjust. If a 480p or 1080i signal is input during component input signal mode, the controls will not operate.
NORMAL	NORMAL O 3	NORMAL will display a 4:3 picture at its standard 4:3 size.
ZOOM	4 0 3 → 16 9 9	ZOOM mode magnifies the central section of the picture.
FULL	→ 16—0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	FULL will display the picture at its maximum size but with sight elongation.
JUST	4 0 16 0 9 0 9 0 9 0 9 0 9 0 9 0 9 0 9 0 9 0	JUST mode will display a 4:3 picture at maximum size but with aspect correction applied to the center of the screen so that elongation is only apparent at the left and right edges of the screen. The size of the picture will depend on the original signal.

- (1) The S-VIDEO terminal on this set can detect specially encoded signals that are compatible with a wide screen monitor. When a full image from the S-VIDEO terminal of specially encoded video is detected by the set, the screen size is automatically set to FULL mode.
- (2) The screen size also changes if ID-1 is detected.
- (3) The screen size will also change if S1 detection has been set.

VHF, UHF and CATV





Press to turn the TV on (See page 19).

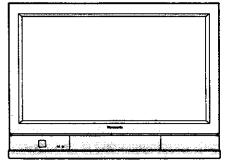
Press to operate the TV set with the remote control.

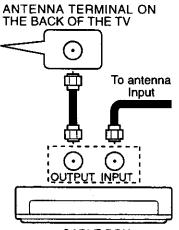
Press to select the desired channel.

Select the desired volume level.

- The channel number and volume level are set even after the TV is turned off.
- Power consumption and howling of sound can be reduced if the volume level is lowered.

Cable TV





Incoming Cable from Antenna or Cable TV System.

When the antenna cable is connected to the TV antenna terminal via a cable box or VCR, set the TV channel to CH3 or CH4.

This does not apply when signal is input from VIDEO INPUT.





Confirm that registration with cable TV and connection of equipment are completed. Turn the cable TV tuner and select the desired volume level.

1



2



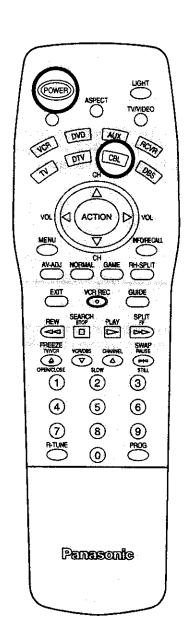
Press while pointing the remote control towards the cable TV tuner.

Note:

The remote control code number is set for Panasonic products.

When peripheral equipment do not operate, reset code (See page 61 and 62).

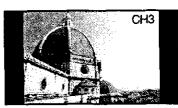
3 Operate the cable TV tuner and select the desired volume level.

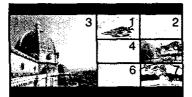


Searching for the desired channel (channel search)



When a SAERCH / STOP button is pressed during single screen.





The sound from the left screen will be heard from both [LEFT P.] and [RIGHT P.] screen jacks (both earphones and headphones).

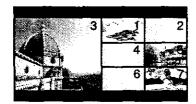
When a channel button is pressed during channel search.

- Number kevs:
 - Example: When 8 is pressed, channel 8 is displayed in single screen.
- Channel up and down keys: When △ or ▽ button is pressed, the next channel up or down is displayed in single screen.



When a SAERCH / STOP button is pressed during split screen, PoutP, or pause.





The sound from the left screen will be heard from both [LEFT P.] and [RIGHT P.] screen jacks (both earphones and headphones).

When a channel button is pressed during channel search.

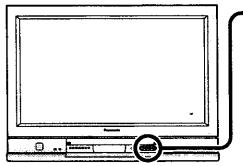
The selected channel will be displayed on the right screen (pause is deactivated)

Channel search:

Channel search displays each channel, in order, as a paused image. Channels are displayed from the left top to the right bottom in order. When it reaches the right bottom, the next channel is displayed at the left, overwriting the previously displayed channel.

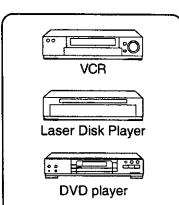
- To end channel search, press SEARCH STOP.
- Channel search can be activated from the MENU screen.

Playing a VCR or other peripheral equipment

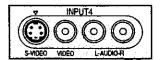


Confirm that the TV is in standby mode.

A video camera uses the Video Input 4 terminal on the front of the TV. Video camera To S-video output or video output



This equipment can also be connected to the rear terminals. See Connections for details.



Turning the power on and switching input modes

1

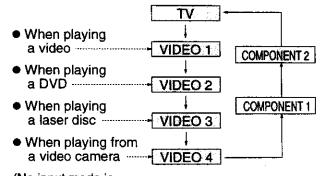
Turn the TV on.

2

To audio output



The input mode changes each time this button is pressed. (See page 48 and 49)



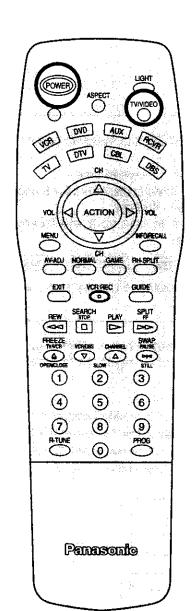
(No input mode is

displayed for terminals with no equipment connected.)

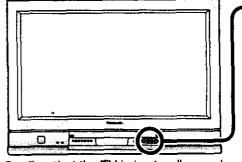
Note:

When the remote control is unavailable, input modes can also be switched on the TV set using the TV/VIDEO button.

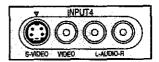
3 Operate the connected equipment.

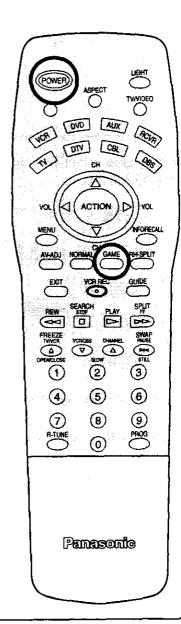


Playing games in game mode



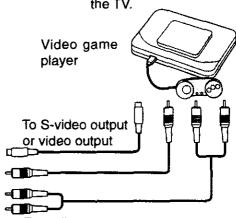
Confirm that the TV is in standby mode.





Confirming connections

Example: When using the Video Input 4 terminal on the front of



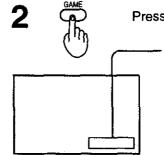
To audio output

Turning on the TV and switching to game modes

1



Turn on the TV.



TV screen

Press the GAME button to switch to game mode.

 Displays the lapsed time.
 Lapsed time is displayed for 5 seconds every 30 minutes.

Be sure to rest your eyes every 30 minutes.

GAME 30 → GAME 60 → GAME 90

The lapsed time display stops after 90 minutes.

When finished, press the GAME button again. (Turn off game mode by switching input modes or changing the channel.)

Notes:

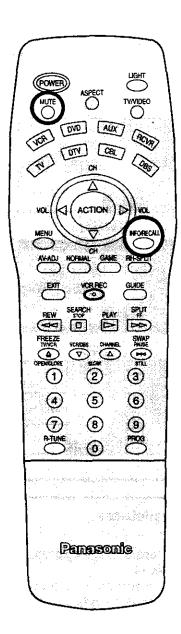
- Video input mode can be changed when the GAME button is pressed.
- Game mode is maintained when power to the TV is turned off.
- When game mode is selected: Picture will be set to PICTURE MENU (GAME), and sound will be set to SOUND MENU (GAME).

factory default setting

ltem	Setting
Picture menu	Game
Audio menu	Game
Surround	ON
Screen mode	FULL

Picture and sound can be set as desired. (See page 36 and 38.)

Recall / Mute

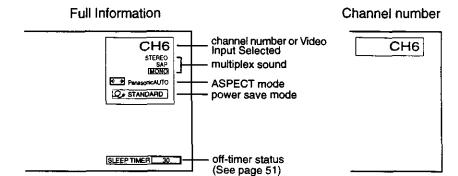


Recall (On-screen display)

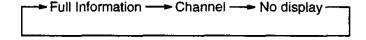


Press this button to display channel number, off-timer remaining time, screen modes, and other settings. For approximately 10 seconds, only the channel number remains,.....

The channel number remains, but other information disappears after a specified period. Press this button again to delete channel number display.



The INFO/RECALL button switches the display in the following order.



Mute

Useful when answering the phone or receiving unexpected visitors

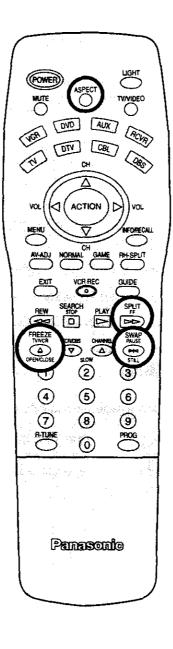


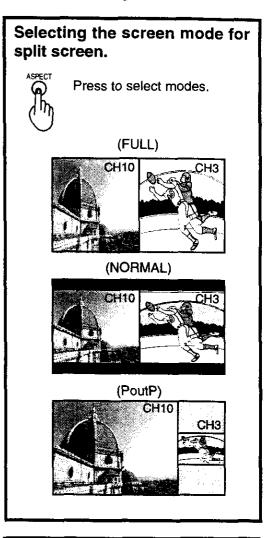
Press this button to mute the sound. Press again to reactivate sound. Sound is also reactivated when power is turned off or volume level is changed.

Split screen

Split screen enables you to search other channels on the right screen or check video recording status.

Splitting the screen Press to split (The previously selected screen appears.) Example: Two screen mode set to NORMAL aspect. • Returning to one screen. Press to return.





Freezing pictures



Press during single screen to freeze.

The screen is split and the freeze image is displayed on the right and the broadcast channel continues on the left.





Press to recover.

- Sound from the left screen is output from the speakers on the TV set.
 Sound from the right screen is output from the right earphone jack output on the front of the TV set.
- When the screen is split, signals of the left screen are output from the rear monitor output terminal.
- The left and right screen are processed by individual circuits and therefore may have slight variation in sound and image quality.
- Split screen returns to single screen when the TV is turned off.

Changing the channel of the right screen

during SPLIT SCREEN FULL, SPLIT SCREEN NORMAL, and PoutP.

1



Press to operate right screen.



2



While is displayed on the screen, press to switch modes.



Example: Change to channel 5.

Viewing videos



While is displayed on the screen, press to switch modes.



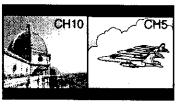
 The channels for the left screen can be changed in the same way as when the screen is single.

Swapping left and right screens

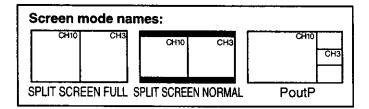


During SPLIT SCREEN FULL, SPLIT SCREEN NORMAL, PoutP: Press to swap.

Example: During SPLIT SCREEN NORMAL.

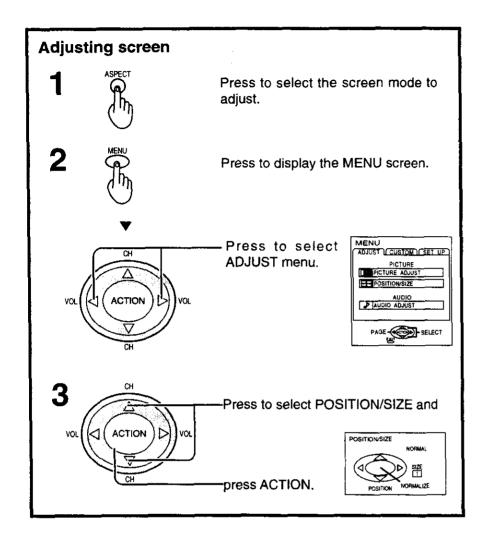






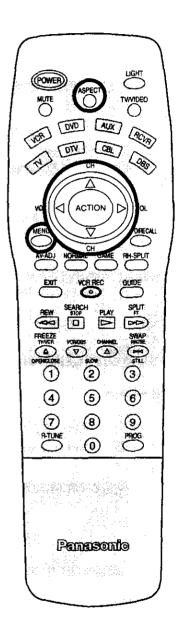
- Use earphones to listen to sound of the right screen during SPLIT SCREEN FULL, SPLIT SCREEN NORMAL, and PoutP.
- The right and left screens cannot display the same picture at the same time.
- Use the right screen when playing video games on a split screen (to avoid distortion of images).

Adjusting screen position and size



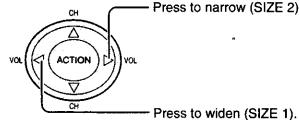


- This TV is equipped with various screen modes. If a screen mode with a different aspect from the broadcast program is selected, image will appear differently. Select the proper screen mode with this in mind.
- Be careful when using this TV for commercial purposes or for public use, such as in cafes and hotels, for Shrinking and enlarging images by using screen mode switching function (zoom, etc.) may violate copyright laws.
- Images displayed on a wide screen TV will be cut off or distorted at the edges, when viewing normal aspect images of 4:3 in ZOOM, JUST or FULL mode. Display in NORMAL mode to view the original image intended by the producer.
- For 1080i and 480p input images, screen position and size cannot be adjusted.
- The adjusted setting will be kept even when the TV is turned off.
- The signals output from the monitor output terminal on the back of the TV are not affected when the screen size and position are adjusted.

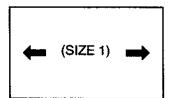


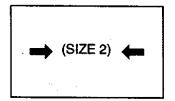
Switching screen width

During NORMAL mode, if noise appears on the ends of the image in SIZE 1, switch to SIZE 2.

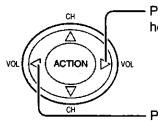


- Press to narrow (SIZE 2).



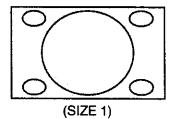


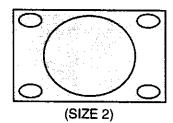
During JUST mode, if noise appears on the ends of the image in SIZE 1, switch to SIZE 2.



Press to enlarge image horizontally (SIZE 2).

Press to shrink image horizontally (SIZE 1).

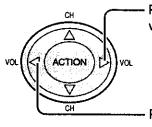




- To return to standard → ACTION
- To end adjustments → MENU (EXIT)

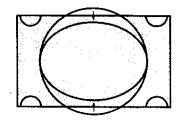
Changing vertical size

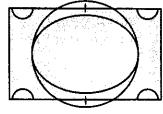
During ZOOM modes.



Press to enlarge image vertically (max. 15).

Press to shrink image vertically (min. 1).

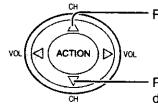




- To return to standard → ACTION
- To end adjustments → MENU (EXIT)

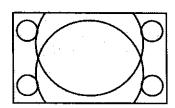
Displaying images cut off from the screen

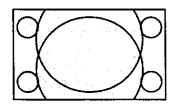
For ZOOM and JUST modes.



Press to move image upwards.

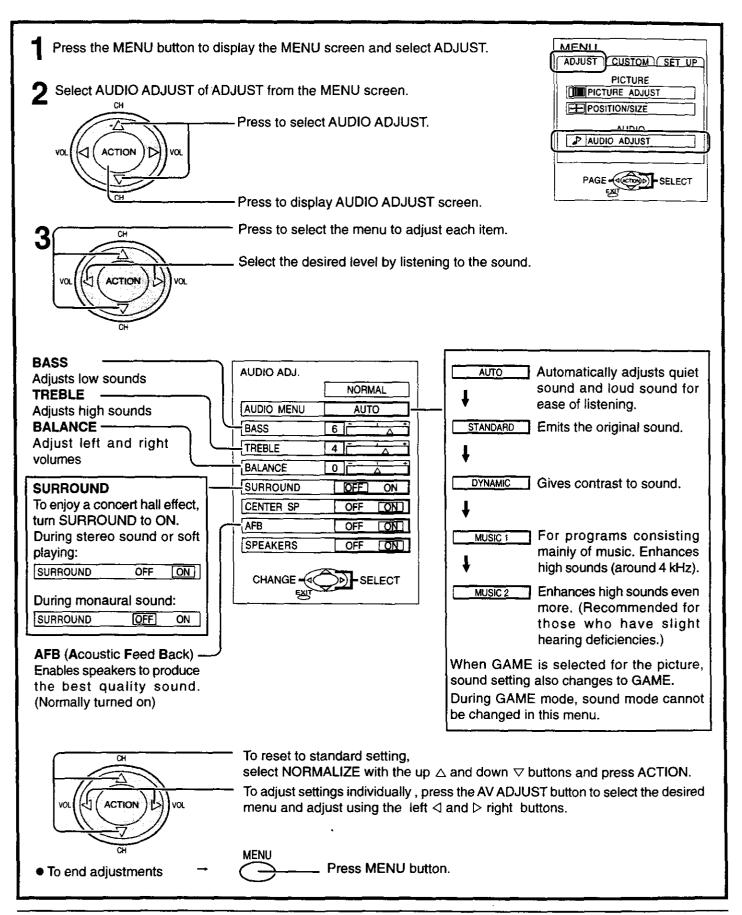
Press to move image downwards.





- To return to standard ACTION
- To end adjustments →

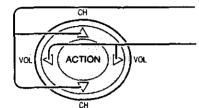
Audio Adjustments



Turning the center speaker ON and OFF to enhance the mood

During AUDIO ADJUST menu:

Press to select CENTER SP.



Press to select switch.

AUDIO ADJUST	
	NORMAL
AUDIO MENU	AUTO
SURROUND	[OFF] ON
CENTER SP	OFF ON

ON: • Sound given off from the center is enhanced and stability is increased.

OFF: • Use when certain scenes are hard to hear or to enhance and increase stability.

Turning the speaker sound ON and OFF

SPEAKERS OFF

Turns off the speaker sound.

SPEAKERS OFF ON

Notes:

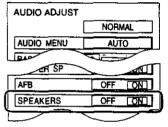
- Sound signals are output from the rear AUDIO OUT terminal.
- When volume is adjusted or the mute button is pressed from the remote control, a message will be displayed.
- Sound signals from the headphone and earphone jacks are as follows:

HPJ: OFF EPJ: ON



Speaker sound is normal.

SPEAKERS OFF ON



◆ To end adjustments → MENU

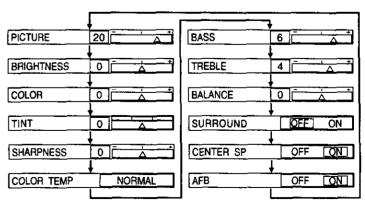
By pressing the AV-ADJ button on the remote control, PICTURE ADJUST and AUDIO ADJUST can be directly adjusted instead of starting from the MAIN menu.

AY-A0J

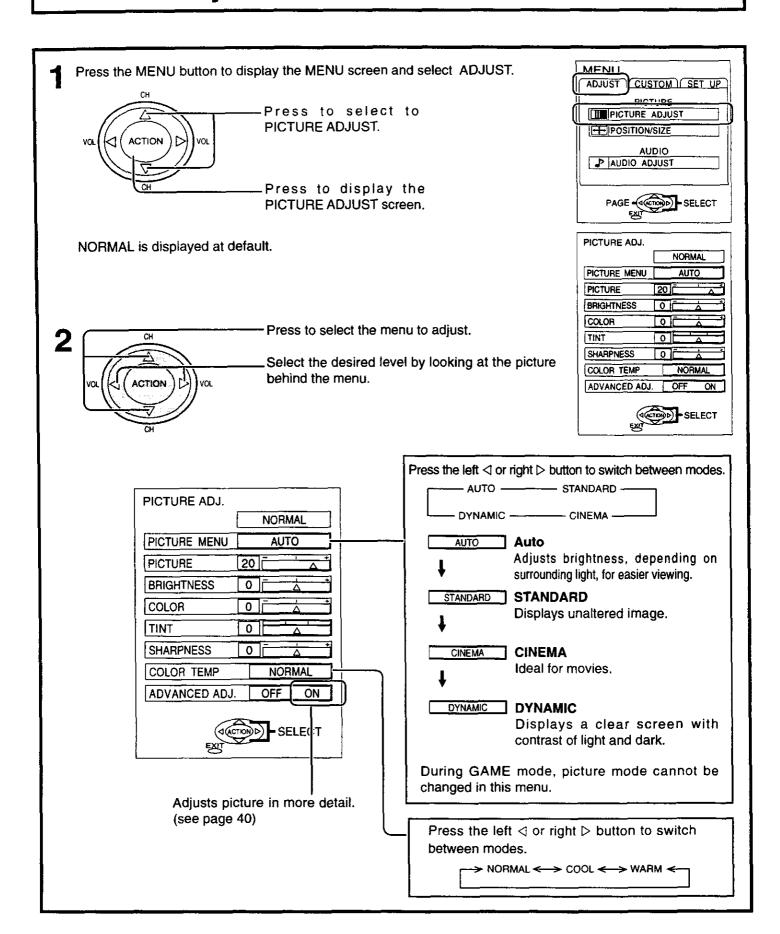
 The selected menu will change each time the AV-ADJ button is pressed (press until the desired menu is displayed).

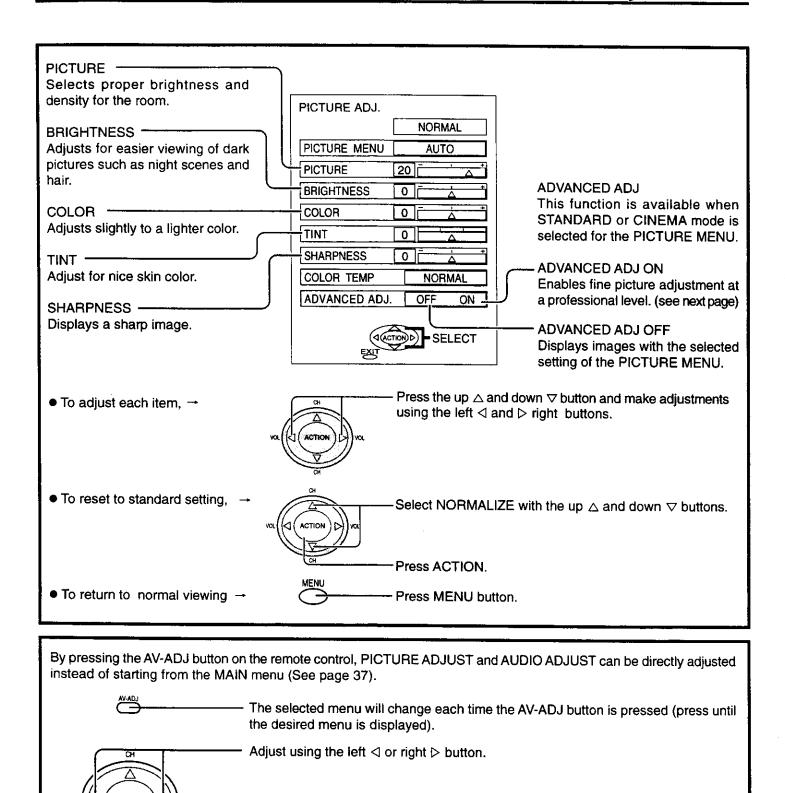
VOL ACTION DVOL

Adjust using the left ⊲ or right ⊳ button.



Picture Adjustments

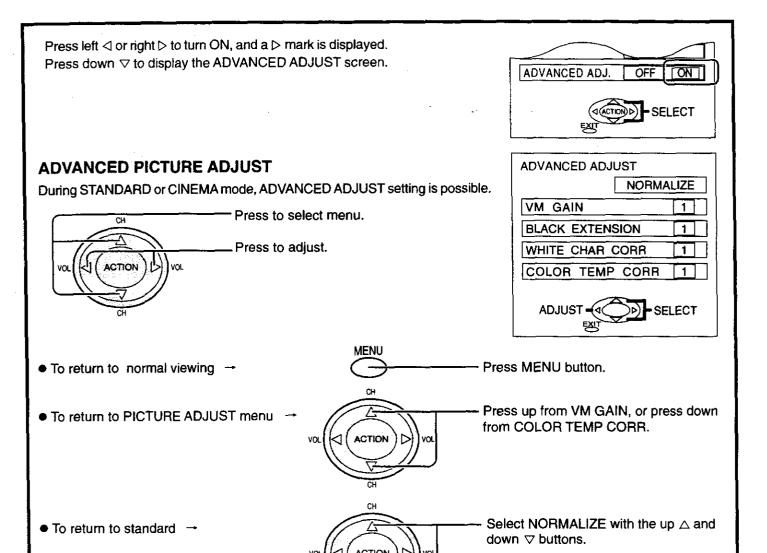




Note:

ACTION

There is little change when PICTURE is increased with a bright picture or reduced with a dark picture.

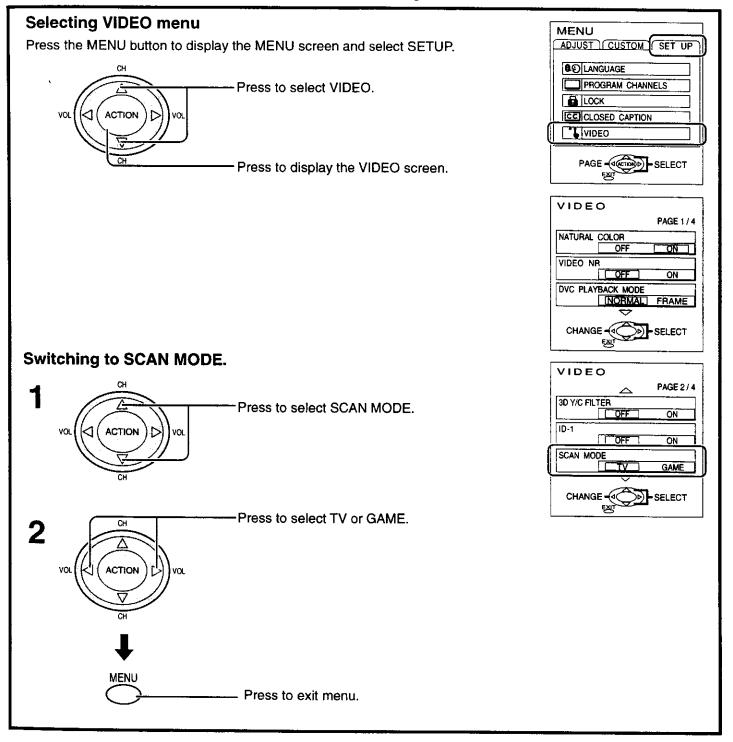


Item	Content	Adjustable range
VM GAIN	Adjusts the emphasis for the Vertical contours.	
BLACK EXTENSION	Adjusts the dark shades of the image in gradation.	0 (no adjustments) - 15 (max. adjustment)
WHITE CHAR CORR	Emphasizes the whiteness of parts such as white characters.	
COLOR TEMP CORR	Fine adjustments of color temperature selected for each PICTURE MENU mode.	-7 (low color temperature) - 7 (high color temperature) <reddish color=""> -7 (low color temperature) - 7 (high color temperature)</reddish>

- Press ACTION.

Playing special video software

When playing special images such as three dimensional video disks on video disk players or game software on video game players, use GAME mode. Use TV mode for normal viewing.

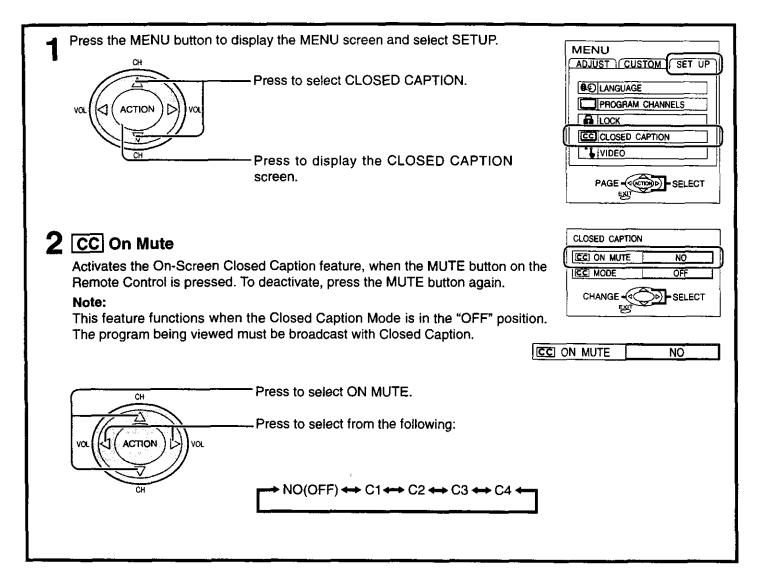


Notes:

The VIDEO set up screen is made up of 4 pages.
 Use the up △ and down ▽ buttons to change pages.

Closed Captions

This receiver has a built in decoder that provides a visual depiction of the audio portion of a television program in the form of written words across the screen (white or colored letters on a black background). It allows the viewer to read the dialogue of a television program or other information.

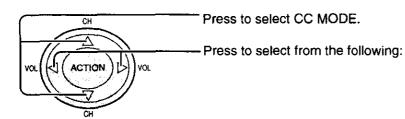


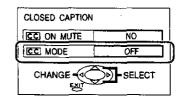
Notes:

- Recommended menu Set Up for Closed Caption when using Mute Button.
 - CC ON MUTE: C1
 - CC MODE: OFF
- The setting for CC ON MUTE is valid only when the CC MODE is OFF, CC MODE set to ON will override CC ON MUTE.
- This menu cannot be selected when the MAIN picture is displaying a COMPONENT VIDEO INPUT of 480i or more.
- When aspect is ZOOM, Closed Caption cannot be used.

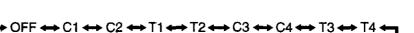
3 CC Mode

Activates the On-Screen Closed Caption feature. When activated this feature will remain on until OFF is selected in this menu.





OFF

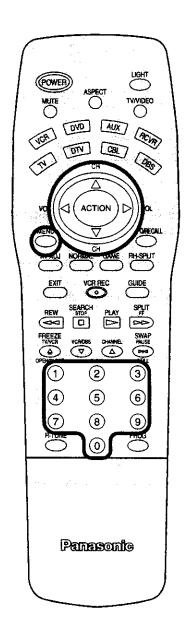


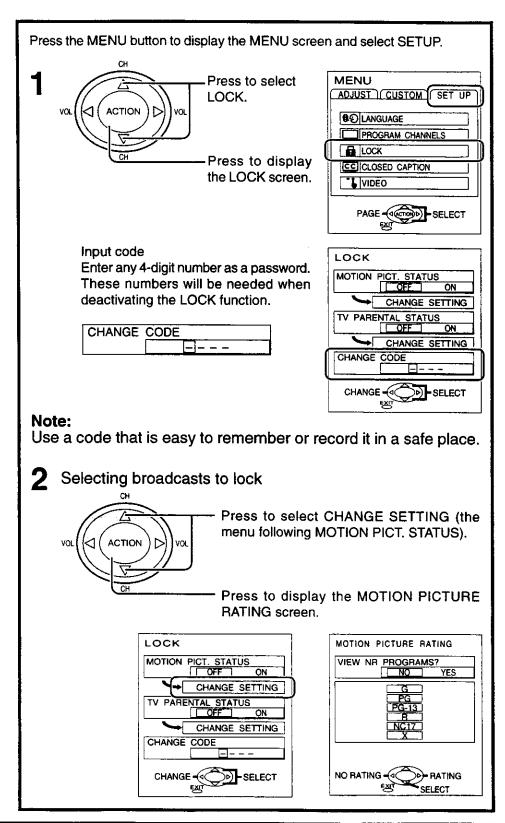
CC MODE

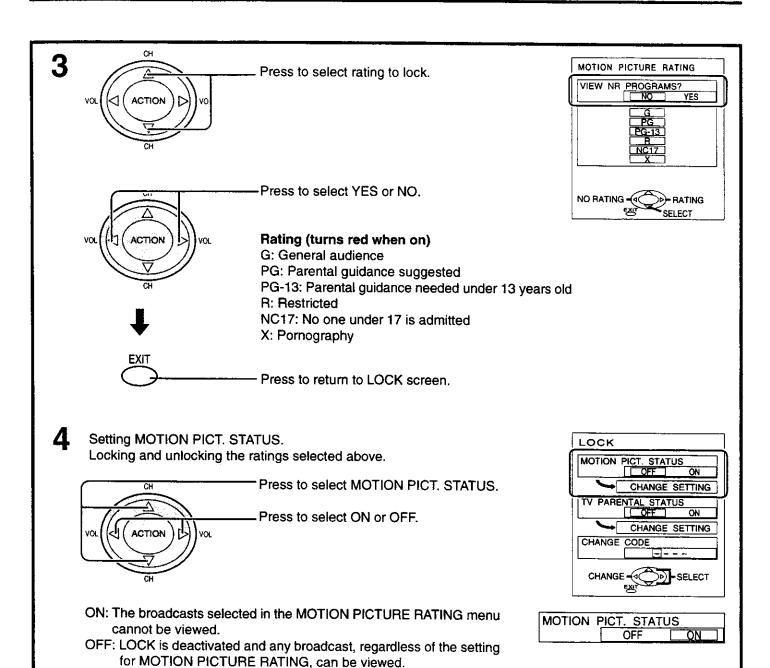
- CAPTION OFF Recommended mode when Closed Caption is not being used.
- CAPTION C1 For video related information that can be displayed (up to 4 lines of script strategically placed on the television screen so that it does not obstruct relevant parts of the picture).
- CAPTION C2 Another mode used for video related information.
- TEXT T1 Blanks out a large portion of the picture on the television screen, and displays program guide or any other information currently being transmitted.
- TEXT T2 Another mode which displays information and blanks out a large portion of the picture on the television screen.
- CAPTION C3 Another mode used for video related information.
- CAPTION C4 Another mode used for video related information.
- TEXT T3 Another mode which displays information and blanks out a large portion of the picture on the television screen.
- TEXT T4 Another mode which displays information and blanks out a large portion of the picture on the television screen.
- To end adjustments → Press MENU button.

Lock Feature

In the United States and Canada, the V-CHIP consists of two rating systems, which are MPAA (MOTION PICTURE) and TV PARENTAL GUIDELINES. Its function is to block programs by the rating data in the XDS data packets sent from broadcasting stations. The user can select which rating programs should be blocked by using the LOCK MENU options.

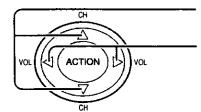






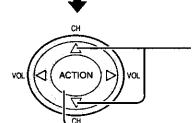
- Press to set.





Press to select TV PARENTAL STATUS.

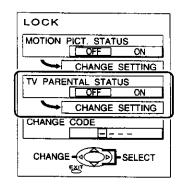
Press to select ON or OFF.

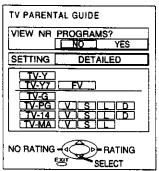


Changing setting

Press to select CHANGING SETTING.

Press to display the TV PARENTAL GUIDE screen.





Setting the TV PARENTAL PROGRAMS screen

VIEW NR PROGRAMS?

NO: The broadcasts selected in the MOTION PICTURE RATING menu cannot be viewed.

YES: LOCK is deactivated and any broadcast, regardless of the setting for MOTION PICTURE RATING,

can be viewed.

SETTING

BASIC:

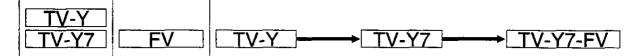
The up \triangle and down ∇ buttons change the selected title.

DETAILED: The cursor selecting the title can be moved to select options displayed on the right. The

down ∇ button moves the cursor to the right if options are available. The up \triangle button moves the cursor to the left and if there are no options to the left, the cursor will move up.

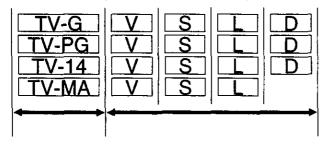
Locking and unlocking

- When a title field is selected, all ratings below this rating are selected.
- When options within an option field are selected, ratings below this rating within the same field are selected.
- Ratings displayed in green are unlocked and those displayed in red are blocked programs.
- 1. Ratings for children: These ratings are divided into ranks as follows.



2. Ratings for teenagers: These ratings are the same as the matrix system. This system is described in the diagram below.

Ratings for all ages are on top and ratings for adults are on the bottom.



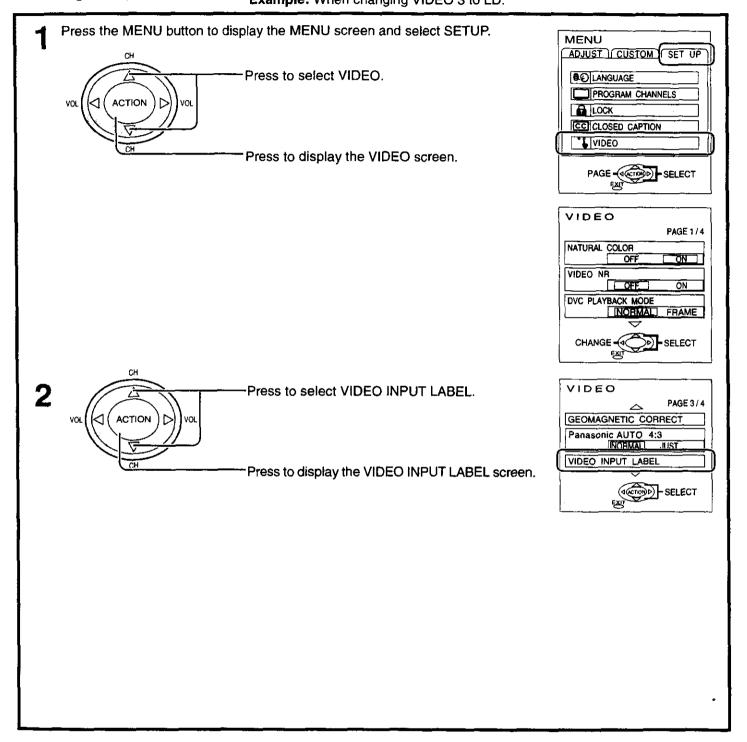
• To end adjustments



Customizing the VIDEO INPUT labels

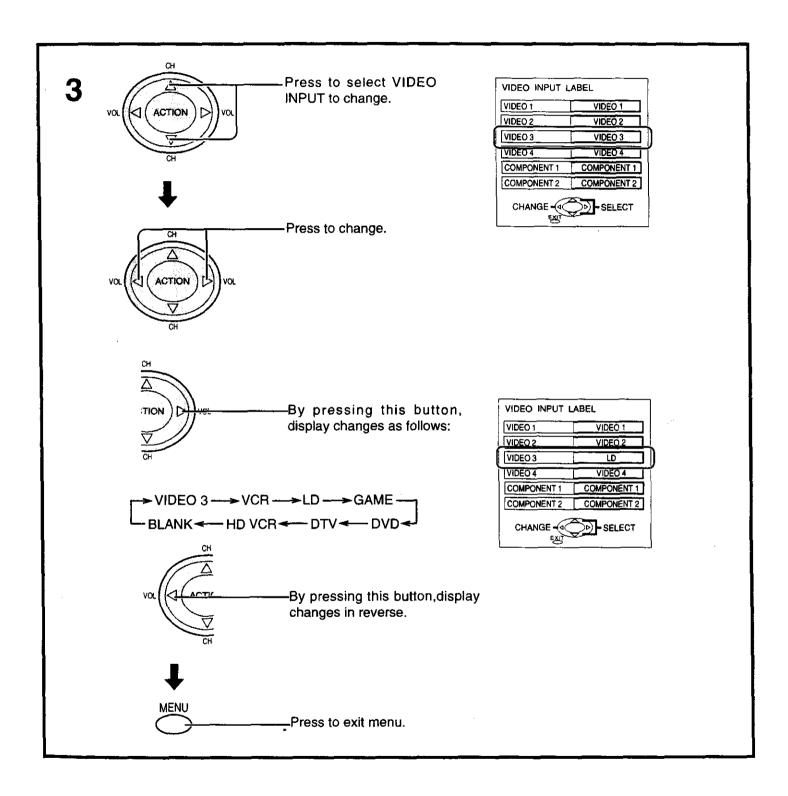
Display for each VIDEO INPUT can be changed to match with the connected device (VCR, video games).

Example: When changing VIDEO 3 to LD.



Note:

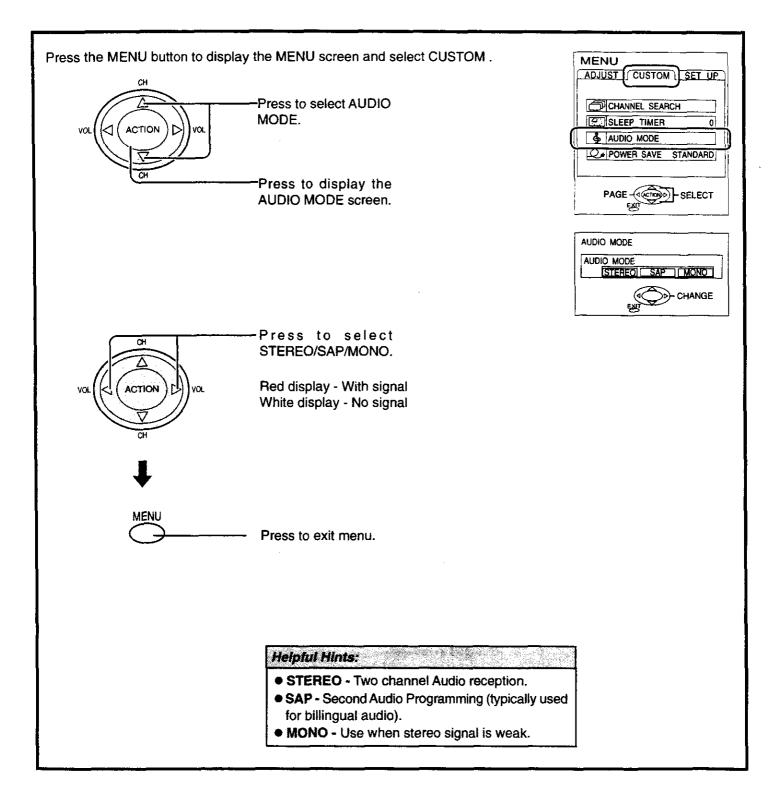
The VIDEO screen consists of 4 pages. Use the up \triangle and down ∇ buttons to change pages.



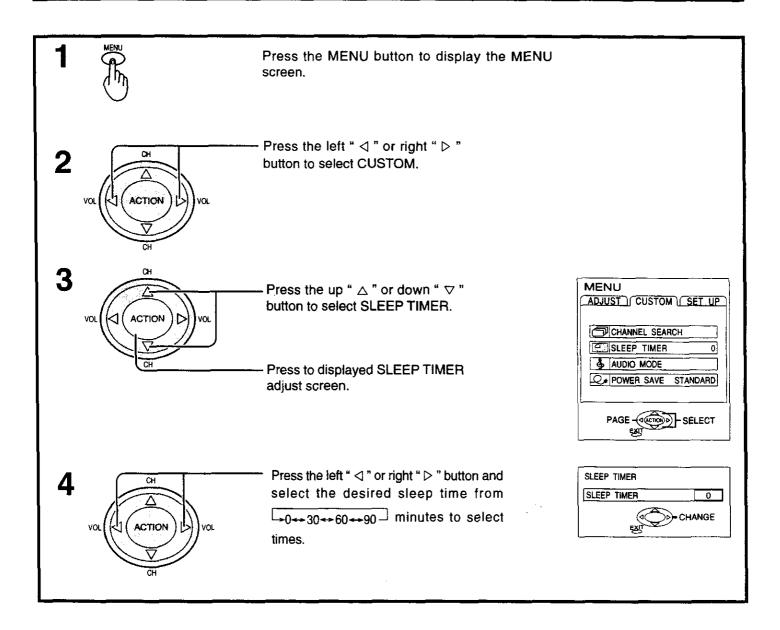
Note:

When DVD or DTV is selected for the change, images are adjusted to match each input signal.

Selecting STEREO/SAP/MONO



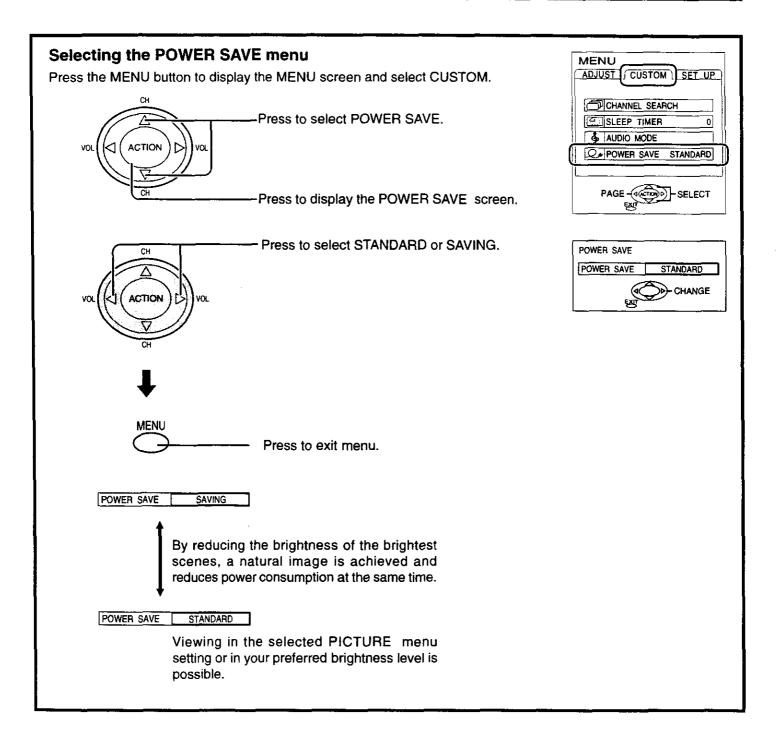
Using the off-timer



Notes:

- When the power to the TV set is disrupted due to a power outage or similar problem, after power is restored, the off-timer will be deactivated and the TV will be in standby mode.
- To see the remaining sleep time, press the INFO/RECALL button.

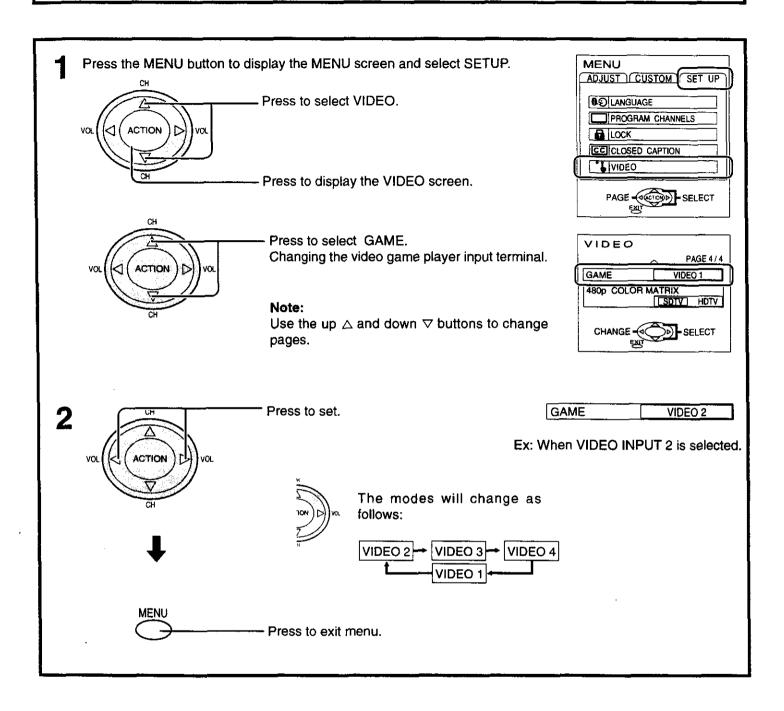
Viewing with reduced brightness (POWER SAVE)



Notes:

- When CINEMA or GAME mode is selected for the image menu, POWER SAVE does not function.
- The setting for POWER SAVE is set even when the TV is turned off.

Video game player to VIDEO INPUT

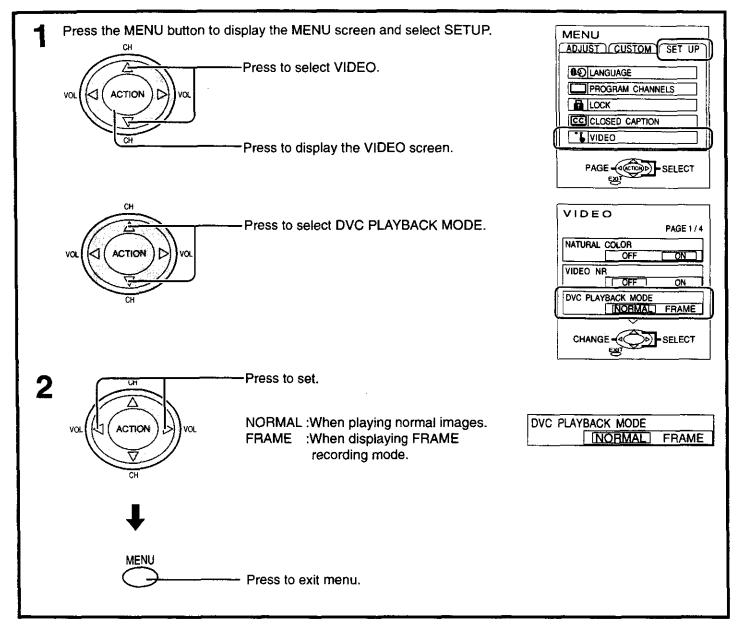


Note:

Default is set for VIDEO INPUT 4 which is located on the front of the TV set.

Optimizing display for DVC recording mode (DVC PLAYBACK MODE)

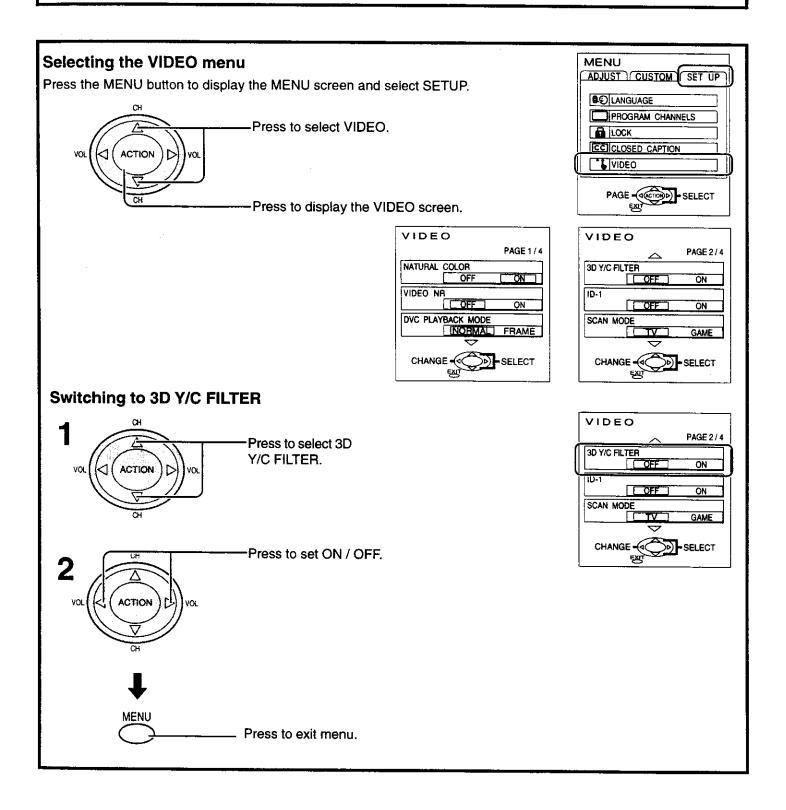
When digital video camera recording is in FRAME, images will have high resolution.



Note:

- Switches only during VIDEO INPUT 1-4 or GAME modes.
- If normal images are viewed in FRAME mode, moving pictures may appear awkward. Switch to NORMAL.
- The VIDEO screen consists of 4 pages.
- Use the up △ and down ♥ buttons to change pages.

Adjusting unnatural video images (3D Y/C FILTER)

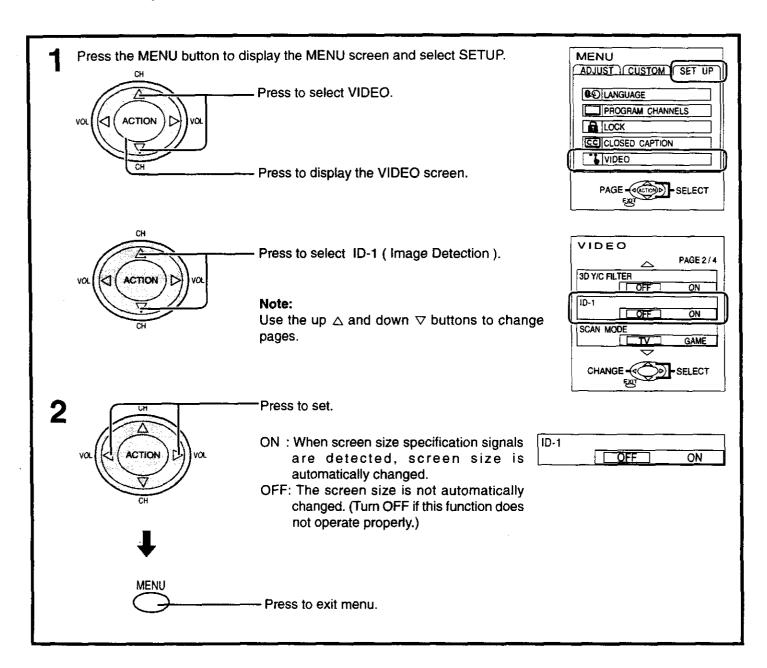


Notes:

- The VIDEO menu is made up of 4 pages.
 Use the up △ and down ▽ buttons to change pages.
- Not available for COMPONENT VIDEO 1-2.

Automatically changing screen size for VIDEO INPUT modes

If the received signal contains screen size specifications in VIDEO INPUT (1-4) or COMPONENT VIDEO INPUT (1-2), the screen size is automatically changed.

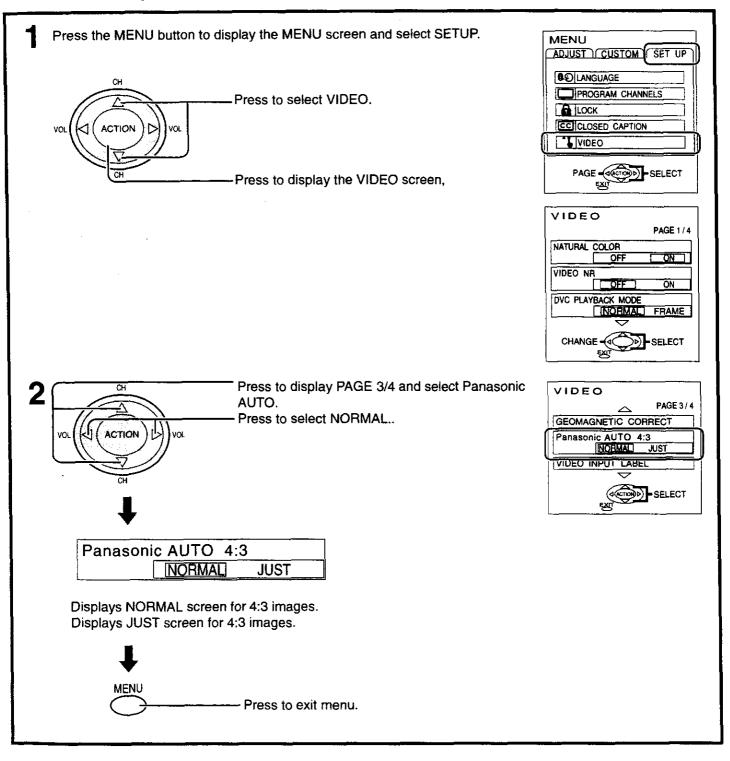


Notes

- When ID-1 is detected and the screen size is changed, FULL or WIDE will be displayed.
- When displaying a split screen, ID-1 is not detected.

Cancelling automatic enlarging of screen

Used for viewing 4:3 images in Panasonic auto mode. (See page 24)

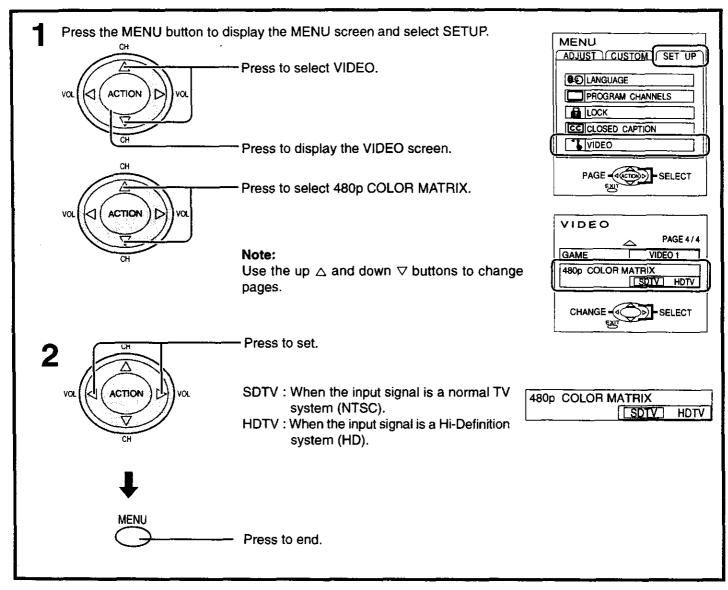


Note:

The VIDEO screen consists of 4 pages. Use the up \triangle and down ∇ buttons to change pages.

Setting when 480p signals (sequential scan) are input through COMPONENT VIDEO INPUT

Displays input signals (480p signals) in a natural color from digital equipment adaptors connected to COMPONENT VIDEO INPUT (Y, Pb/Cb ,Pr/Cr input terminals).

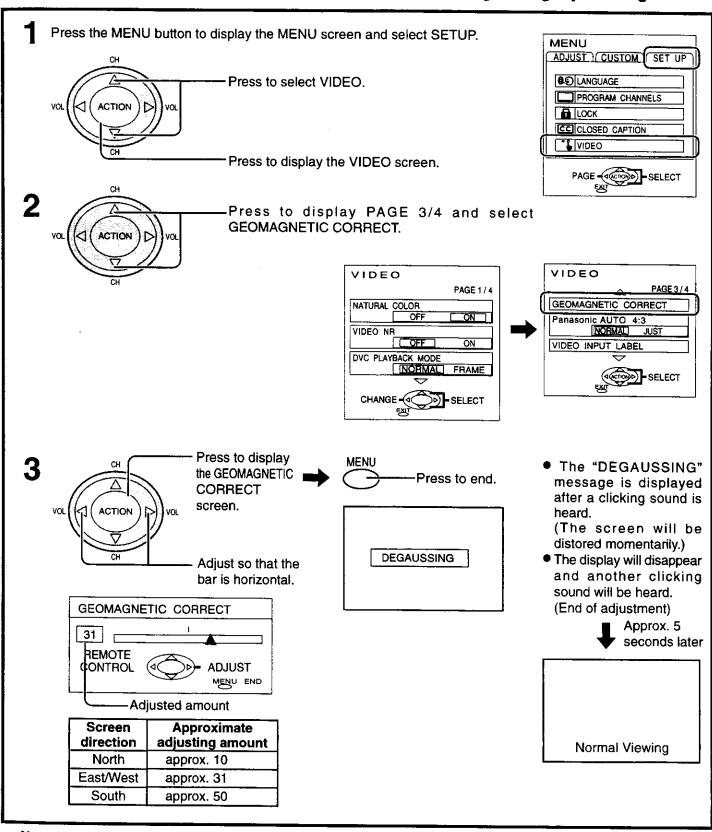


Note:

480p COLOR MATRIX does not need to be set when using Hi-Definition equipment or 480i output equipment.

Geomagnetic correction (Adjusting skewing of images)

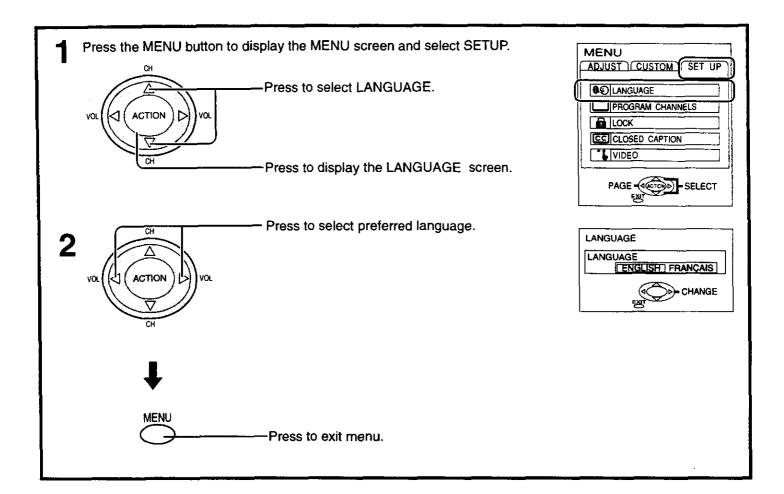
This correction is made when moving the TV set or when image is slightly skewing.



Note:

The VIDEO screen consists of 4 pages.

Switching languages for display



Programming The Illuminated Remote Control Using Access Codes

The remote control can be preset for other manufacturers, by utilizing the REMOTE MODE SELECTION BUTTONS for CABLE, DTV, VCR, RCVR (a Receiver or Amplifier), DVD (DVD, CD, LD) ,DBS and AUX (for Cassette Player or a VCR2.)

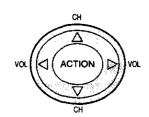
(Details on remote control buttons to operate peripheral equipment → See page 63 to 65 and 66 to 68)

1. Setting up the remote using the numerical keys. (When the code is known):



Press and hold the POWER and ACTION keys simultaneously for three full

After 3 seconds, all the illuminated mode keys will begin to flash. Release the POWER and ACTION keys.





Press the desired mode key.

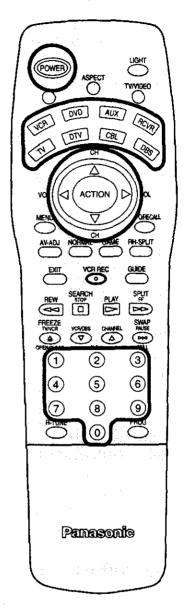
The mode key will illuminate steadily, all others will go out.

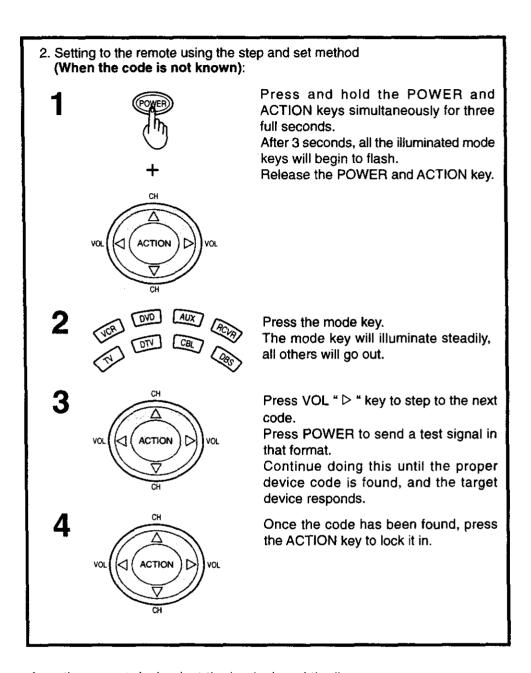


Enter the three digit set up code, by using the Remote Control Keyboard. If the correct code is entered, the mode key will blink twice and then go out. Now your remote is set for this code.

If an incorrect number is entered (or there is an incomplete entry after 30 seconds), the key illumination goes out (no blink) and the settings are unchanged.

Device	Operate	Default
TV	TV (Only Panasonic)	Panasonic Code
VCR	VCR (Preset)	Panasonic Code
CBL	Cable Boxes (Preset)	Panasonic Code
DBS	DBS Boxes (Preset)	Panasonic Code
RCVR	RCVR (Preset)	Technics Code
AUX	Cassette Players, VCR2 (Preset)	Technics Cassette Players Code
DVD	DVD & LD & CD Player (Preset)	Panasonic DVD Code
DTV	STB (Only Panasonic)	Panasonic Code





Notes:

- The step and set mode will start from the current device (not the beginning of the list, except for the first time).
- The step and set mode works in the reverse direction using the VOL " ⊲ " key.

Infrared Remote Codes for Specific Components				
Helpful Hint: Write down the code numbers for your components in the space provided below. This will serve as a handy reference whenever you need to reprogram your remote control.				
CABLE Cable Box DBS Digital Broadcast System	VCR Video Cassette Recorder RCVR Receiver or Amplifier	CD Compact Disc Player LD Laser Disc Player		
Other Component Other Component	Other Component Other Component	Other Component Other Component		

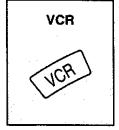
Infrared Codes Index

The remote control is capable of operating many brands of peripheral equipment. Refer to pages 61 and 62 for programmingprocedures.

Note: The remote control memory is limited and therefore some models may not operate. The remote control is not designed to control all features available in all models.

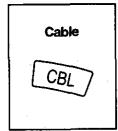
Note: After entering the proper infrared code, press the desired Mode Selection Button on the remote control. Refer to pages 16 and 66 to 68, for details on operating peripheral equipment using the remote control.

VCR Infrared Codes Index



	Maker List (VCR)		
Maker	Set Up No.	Maker	Set Up No.
ADMIRAL	200	PENTAX	000, 011, 300
AlWA	137, 160	PHILCO	150, 130, 137, 125
AKAI	142, 014, 015, 016		136, 081
AUDIO DYNAMIC	240, 011	PHILIPS	150, 125, 130
BELL & HOWELL	005, 013	PIONEER	125
BROKSONIC	081, 136	PROSCAN	300, 000, 125, 130
CANON	125, 135		150, 310, 001, 002
CITIZEN	006	QUASAR	100, 101, 125, 130
CRAIG	005, 141, 006	RADIO SHACK	170, 130, 005, 210
CURTIS MATHES	300, 130, 137		009, 241, 137
DAEWOO	250, 001, 130	RCA	170, 300, 000, 125
DBX	240, 010, 011		130, 150, 310, 001
DIMENSIA	300		002
EMERSON	250, 136, 080, 003	REALISTIC	130, 005, 210, 009
	135, 243, 081		241, 137
FISHER	005, 008, 009, 007	SAMSUNG	220, 002, 004
FUNAI	137, 136, 081	SANSUI	240, 136, 081, 520
GE	170, 300, 130	SANYO	005, 009
GO VIDEO	220, 512	SCOTT	001, 002, 004, 009
GOLDSTAR	006		230, 241, 330, 340
HITACHI	125, 300, 000		136, 081
INSTANT REPLAY	130, 125	SEARS	005, 006, 007, 008
JENSEN	240		000
JVC	240, 010, 011, 190	SHINTOM	050
KENWOOD	240,,010, 006, 011	SHARP	200, 210
LXI	137, 006, 000, 007	SIGNATURE 2000	137, 200
	008, 005, 009	SINGER	050
MAGNAVOX	150, 125, 130	SONY	140, 141, 142
MARANTZ	240, 010, 011	SV2000	137
MARTA	006	SYLVANIA	150, 125, 130, 137
MEMOREX	130, 009	SYMPHONIC	137
MGA	230, 241, 330, 340	TASHIRO	006
	242, 243	TATUNG	240, 010, 011
MINOLTA	000, 300	TEAC	240, 010, 137, 011
MITSUBISHI	230, 241, 330, 340	TECHNICS	100, 101, 125, 130
	242, 243	TEKNIKA	130, 137
MULTITECH	330, 137, 004	TOSHIBA	001, 310
NEC	240, 010, 011, 190	VECTOR RESEARCH	011
OLYMPIC	130, 125	WARDS	200, 210, 009, 290
OPTIMUS	140, 100, 200, 006		006
ORION	136, 081	YAMAHA	005, 240, 010, 011
PANASONIC	125, 130, 100, 101	ŻENITH	290
PENNEY	130, 000, 300, 005,		
	240, 010, 011	 	

CABLE CONVERTER BOX AND DVD, CD, LD PLAYERS Infrared Codes Index



Maker List (CBL)			
Maker	Set Up No.	Maker	Set Up No.
ABC	530	PULSAR	005, 544
ARCHER	544, 531	PUSER	544
CABLEVIEW	005, 544	REALISTIC	544
CITIZEN	522, 005	REGAL	130, 350, 720, 730
CURTIS	130, 131		731, 900
DIAMOND	530, 544, 531	REGENCY	560
EAGLE	541	REMBRANT	702, 544, 005
EASTERN	560	SAMSUNG	005
GCBRAND	544, 005	SCIENTIFIC ATLANTA	122, 130, 131
GEMINI	522	SLMARK	005, 001
GENERAL INSTRUMENT/JERROLD	360, 530, 531, 532	SPRUCER	005, 121
	533, 520, 521, 522	STARGATE	544, 005
	122	TELEVIEW	001, 005
HAMLIN	720, 730, 731, 900	TEXSCAN	810
	350, 130	тосом	700, 701
HITACHI	003, 530	TOSHIBA	004
MACOM	003, 004, 005	UNIKA	544, 531
MEMOREX	542	UNIVERSAL	522, 544
MOVIETIME	544, 005	VIDEOWAY	006
OAK	710, 702, 002	VIEWSTAR	541, 542
PANASONIC	120, 121, 132	ZENITH	280, 000
PHILIPS	541, 542, 006	ZENITH/DRAKE SATELLITE	000
PIONEER	001, 260		



Maker List (DVD)			
Maker	Set Up No.	Maker	Set Up No.
DENON	100	RCA	110
FERGUSON	110	SABA	110
NORDMENDE	110	SONY	140
MITSUBISH	150	THOMSON	110
PANASONIC	100	TOSHIBA	130
PIONEER	120	YAMAHA	100

Maker List (LD)		
Maker	Set Up No.	
PANASONIC	200, 201, 235, 380	
PIONEER	370	
SONY	240, 241, 242, 243	

Maker List (CD)			
Maker	Set Up No.	Maker	Set Up No.
CARVER	550	PHILIPS	550
DENON	600	PIONEER	430
FISHER	405	QUASAR	501, 530, 500
HARMAN/KARON	459, 460, 462	SANYO	405
JVC	590, 591, 670	SHARP	600
KENWOOD	400, 401, 450, 670	SHERWOOD	.459
MAGNAVOX	550	SONY	540
MARANTZ	550	TECHNICS	530, 500, 501
MCINTOSH	460	VICTOR	590, 591, 670
OPTIMUS	430, 459	YAMAHA	402, 403, 404
PANASONIC	500, 501, 530		

CASSETTE PLAYERS, RECEIVERS, AMPLIFIERS, and DBS Infrared Codes Index

Cassette Players



Maker List (TAPE)				
Maker	Set Up No.	Maker	Set Up No.	
PANASONIC	700, 730	TECHNICS	700, 730	

Receiver Amplifiers



	Maker List (RCVR)			
Maker	Set Up No.	Maker	Set Up No.	
ADMIRAL	110	PANASONIC	101, 100, 130	
AIWA	160, 161	PHILIPS	150	
DENON	200, 201, 202	PIONEER	030, 032	
FISHER	004	QUASAR	101, 100, 130	
GARRARD	055	RCA	003, 030, 162, 171	
HARMAN / KARDON	057, 150		170	
JENSEN	164	SANSUI	003, 053, 320	
JVC	190, 191	SHARP	200, 203	
KENWOOD	000, 050	SONY	140	
MEGNAVOX	162	SOUND DESIGN	220	
MARANTZ	151	TEAC	054, 055, 053	
MCINTOSH	058	TECHNICS	130, 100, 101	
NAKAMICHI	031	VICTOR	190, 191	
ONKYO	051, 0 56	YAMAHA	001, 002	
OPTIMUS	003, 162, 171, 170			





Maker List (DBS)			
Maker	Set Up No.	Maker	Set Up No.
ECHOSTAR	110	PRIMESTAR	391
G.E.	170	RCA	170
HNS (HITACHI)	050	SONY	390
PANASONIC	100	TOSHIBA	000
PHILIPS	001, 002	UNIDEN	001, 002

Remote Control Quick Reference Functional Key Control

KEY	MODE	FUNCTION	
	TV, DTV, VCR	Select Channel	
1 2 3	AUX (VCR2)		
4 5 6	CABLE, DBS		
	RCVR	1 Selects Video 1	
7 8 9	(Receiver/Amplifier)	2 Selects Video 2	
_	· '	3 Selects Video 3	
0		4 Selects Video 4	
	ĺ	5 Selects CD	
]	ļ	6 Selects Tuner	
1		7 Selects Phone	
		8 Selects Tape	
1		9 Selects AUX	
	DVD (DVD, CD, LD)	Selects Track Number	
TV/VIDEO	TV	Selects TV Input Mode	
O			
POWER	ALL COMPONENTS	Turns On and Off Select Components	
FORES			
	TV, VCR, DBS, DTV	Mutes TV Sound	
MUTE	CABLE	Mutes Cable Sound	
l Ö	DVD	Mutes TV / RCVR Sound	
_	RCVR (Receiver/Amplifier)	Mutes Audio	
	AUX (Cassette)	RCVR Mute	
(4)	TV	TV Mode Selection for Remote Control	
	CARLE		
CBL 7	CABLE	Cable Mode Selection for Remote Control	
	DBS	DBS Mode Selection for Remote Control	
QBS >		DDG MIGGE GENERALI TOL HEIRIOTE COULTO	
YCR	VCR	VCR Mode Selection for Remote Control	
PCVA	Receiver / Amplifier	Receiver / Amplifier Mode Selection for Remote Control	
- 37			
OND	Digital Video Disc	DVD (DVD, CD, LD) Mode Selection for Remote Control	
	Cassette Tape Player,	AUX Mode Selection for Remote Control	
AUX	VCR2	Enables User to Operate a Tape Cassette Player, or VCR2	
	TV	TV Channel Up/Down	
СН	VCR	VCR Channel Up/Down	
	CABLE	Channel Up/Down	
	DBS	Channel Up/Down, Navigation Up/Down	
	DVD (DVD)	Navigation Up/Down	
	DVD (CD)	Next Track/Previous Track	
CH	DVD (LD)	Next Chapter/Previous Chapter	
	RCVR	Tuner +/Tuner	
	TV, VCR	TV Volume Up/Down	
	CABLE	Cable Volume Up/Down	
	DBS	Audio Track +/-, Navigation Right/Left	
var[(2()>))vor	DVD (DVD)	Navigation Right/Left	
	DVD (CD)	RCVR Volume Up/Down	
	DVD (LD)	TV Volume Up/Down	
L	RCVR	RCVR Volume Up/Down	

Remote Control Quick Reference Functional Key Control

KEY	MODE	FUNCTION
	TV	Selects Previously Tuned Channel
	CABLE	Selects Previously Tuned Channel
	DBS	Selects Previously Tuned Channel
R-TUNE	DVD (DVD)	Selects Previous Title
	DVD (CD)	Selects Next Disc
	DVD (LD)	Side A / B
	DTV `	Prev. Ch
	AUX (Tape Cassette Player)	Selects Tape Cassette Player A or B
	TV	Activities TV Menus
	CABLE	Enter
(Carroll M	DBS	DBS Action
(ACTION)	DTV	STB Action
	DVD	Select
	TV, CBL	Display Information (Channel, Time, Audio Mode, Power Save Mode)
1	VCR	Display Current VCR Settings
<u> </u>	DBS	Display Current DBS Settings
MFORECALL	DTV	Display Current DTV Settings
	DVD (DVD)	Display Current DVD Settings
	DVD (CD)	Display Time format
	DVD (LD)	Display Current LD Settings
	VCR	VCR REW
OCT II	DVD (DVD, LD)	Skip Search <<
REW ←	DVD (CD)	Search REW
	RCVR	Surround -
	AUX (Tape Cassette Player)	Tape REW
	TV	SPLIT ON/OFF
	VCR	VCR FF
SPLIT FF	DVD (DVD, LD)	Skip Search >>
(Deb)	DVD (CD)	Search FF
1	RCVR	Surround +
	AUX (Tape Cassette Player)	Tape FF
PI AY	VCR	VCR Play
PAY	DVD (DVD, CD, LD)	Play
	AUX (Tape Cassette Player)	Tape Play
CC4DOH	TV	SPLIT Search
SEARCH STOP	VCR	VCR Stop
"	DVD (DVD, CD, LD)	Stop
	AUX (Tape Cassette Player)	Tape Stop
	VCR, CABLE	VCR Record
VCR REC	DBS	DBS Record
<u> </u>	DTV	Info (EPG)
	AUX (Tape Cassette Player)	Tape Record
SWAP PAUSE pyd STAL	TV	SPLIT Swap
	VCR	. VCR Pause
	DVD (DVD, LD)	Still
	DVD (CD)	Pause
	AUX (Tape Cassette Player)	Tape Pause
	TV	SPLIT Freeze
FREEZE TY/YOR	VCR	TV/VCR Switch
OPENICOSE	DVD (DVD, CD, LD)	Open/Close
	AUX (Tape Cassette Player)	Tape Open/Close

Remote Control Quick Reference Functional Key Control

KEY	MODE	FUNCTION	
ASPECT O	TV	TV Aspect	
	DBS	DBS Aspect	
	DTV (STB)	STB Aspect	
	VCR	VCR Channel Up	
	CABLE	TV Channel Up	
CHANG	DBS	DBS Channel Up	
CHANNEL	DVD (DVD)	Slow +	
_	DVD (CD)	Repeat	
	DVD (LD)	LD Side A	
	RCVR	Center +	
	VCR	VCR Channel Down	
	CABLE	TV Channel Down	
	DBS	DBS Channel Down	
VCA/OBS	DVD (DVD)	Slow –	
	DVD (CD)	Random	
	DVD (LD)	LD Side B	
	RCVR	Center –	
AV-ADJ	TV	AV-Adjust	
NORMAL	TV	NORMAL	
	<u> </u>		
	TV	Game	
GAME	DBS	DBS Page Down	
	DVD	Skip –	
	RCVR	Tuner –	
	TV	RH-SPLIT	
RH-SPLIT	DBS	DBS Page Up	
	DVD	Skip +	
	RCVR	Tuner +	
	TV	Exit from Menu Screen	
EXIT	DBS	DBS Exit	
	DTV (STB)	Exit (EPG)	
PROG	DBS	DBS Program	
	DTV (STB)	STB Program	
GUIDE	DBS	DBS Guide	
	DTV (STB)	Guide (EPG)	
	TV	TV Menu	
	DBS	DBS Menu	
MENU	DVD (DVD)	DVD Menu	
	DVD (CD)		
	DVD (LD)		
	DTV (STB)	STB Menu	

Troubleshooting

During normal broadcast (VHF/UHF)

Symptoms	Checks	Page
Power does not turn ON	 Is the power plug plugged in? If the power does not turn on using the remote, check if the TV set is turned on. 	
Remote control does not function	 Are the batteries dead or inserted incorrectly? Is the remote control sensor in direct light of florescent lamps or other strong sources of light? 	9
Image shakes Image is not clear Color patches or no color	 Is the antenna or antenna cable old, broken or shorted? Is the antenna cable connected properly? When using a VCR and selecting channels on the TV, is the TV/VIDEO mode for the VCR set to TV? 	- 10, 11, 12 -
Image appears doubled or tripled.	 Is the antenna facing the right direction? Is the antenna receiving any signals reflected off mountains or buildings. 	- -
Spots appear in images, images shake, or color patches appear in the four corners.	• Is the TV being affected by geomagnetism or other interference (automobiles and trains, high voltage power lines, neon, motors, magnetic steel frames, steel windows, etc.)? Turn off the power for approx. 20 min. and turn back on or change positioning of the TV set. If this does not fix the problem, the TV needs magnetic shielding.	_
When the TV set is turned on in a dark room, the outer edges of the screen spark momentarily.	 Due to the internal structure of the CRT set, some parts of the flourescent components spark, (created by high voltage) when the TV set is turned on. This is not a malfunction. 	
Unclear or overly bright colors on parts of the screen	 When white is displayed on a certain part of the screen for a while, the white portion tends to tint with color. When the bright image disappears, the screen will return to its normal color. 	-
Left and right ends of the screen, columns and frames appear curved.	Receiving broadcast or changes in brightness on the screen can cause curves on the screen.	-
A black stripe appears for a moment when changing channels using the VCR.	The image distorts when channels are changed.	-
During Panasonic AUTO mode, the screen size sometimes changes.	 Depending on the program content, even when the screen is supposed to automatically zoom, if the beginning scene is dark, it may take a while for it to zoom. During a 4:3 screen, if the top and bottom of the image is dark, it may zoom. 	24, 25 –
Images disappear at the top and bottom of the screen	When using 16:9 image software, there is no picture at the top and bottom of the screen (cinema vision size software, etc.).	_
During ZOOM or JUST modes, the image is cut off at the top and bottom.	 ◆ Has the screen position been changed? → If so, adjust screen positioning. 	[*] 34
A clicking and bazzing sound is mode when the TV is turned on.	This is the sound of the Geomagnetic correction function to create a beautiful color picture. This is not a malfunction.	59

During normal broadcast (VHF/UHF)

Symptoms	Checks		Page
Image is skewed	This could be a geomagnetic effect. (If installed facing south, then image slants down to the right; when facing north, slants down to the left.) Perform geomagnetic correction.	PAGE 3/4 GEOMAGNETIC CORRECT Panasonic AUTO 4:3 INORMAL JUST VIDEO INPUT LABEL CHANGE CHANGE SELECT	59
Channel number remains displayed.	 Press the INFO/RECALL button. During VIDEO input, channel number is displayed until an image is displayed. 		31
The TV set makes a cracking sound	• If there are no problems with image or sound, it is the sound of the cabinet shrinking due to room temperature changes. This is not a malfunction.		_

Specifications

Power Source		AC 120 V, 60 Hz			
Power Consumption		Average use: 193.7 W (Maximum Current 3.7 A) Stand-by condition: 0.36 W			
CRT		34-inch, 16 : 9 aspect ratio			
Screen Size		29.36 " (745.9 mm) (W) × 16.5 " (419.5 mm) (H) × 33.68 " (855.7 mm) (diagonal)			
Channel Capability-181		VHF-12 : UHF-56 : Cable-125			
	Speaker	5 Speakers			
Sound	Audio Output	21 W [7 W + 7 W + 7 W] (10 % THD)			
	Headphones	M3 (3.5 mm) Jack × 2			
FEAUTURES		Two screen display fuctions 3D Y/C FILTER AFB circuit installation 5 Speakers CLOSED CAPTION V-Chip			
Accessories Supplied		Remote control Transmitter EUR511162 R6 (AA) Battery × 2			
Operatin	Operating Conditions Temperature: 34 °F - 104 °F (0 ° - 40 °C) Humidity: 20 % - 80 % (non-condensing)				
Connection Terminals		AV INPUT 1-4 AV PROG. OUT TO AUDIO AMP COMPONENT VIDEO	VIDEO (Phono Jack Type) S-VIDEO (Mini DIN 4-pin) AUDIO L-R (Phono Jack Type × 2) VIDEO (Phono Jack Type) S-VIDEO (Mini DIN 4-pin) AUDIO L-R (Phono Jack Type × 2) AUDIO L-R (Phono Jack Type × 2) Y	1.0 Vp-p (75 Ω) Y: 1 Vp-p (75 Ω), C: 0.286 Vp-p (75 Ω) 0.5 Vrms 1.0 Vp-p (75 Ω) Y: 1 Vp-p (75 Ω), C: 0.286 Vp-p (75 Ω) 0.5 Vrms 0.5 Vrms 1.0 Vp-p (including synchronization)	
Dimensi (W × D >		34.4 " (874 mm) × 23	PB / PR AUDIO L-R (Phono Jack Type × 2) .1 " (585 mm) × 25.1 "	± 0.35 Vp-p 0.5 Vrms	
Weight (174 lb. (79 kg) Net			

Note:

Design and Specifications are subject to change without notice. Weight and Dimensions shown are approximate.

Customer' Record

The model number and serial number of this product can be found on its back cover. You should note this serial number in the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes.

Model Number

CT-34WX50

Serial Number

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