

**SONY**

3-800-353-22 (2)

English

Español

# ***Color Rear Video Projector***

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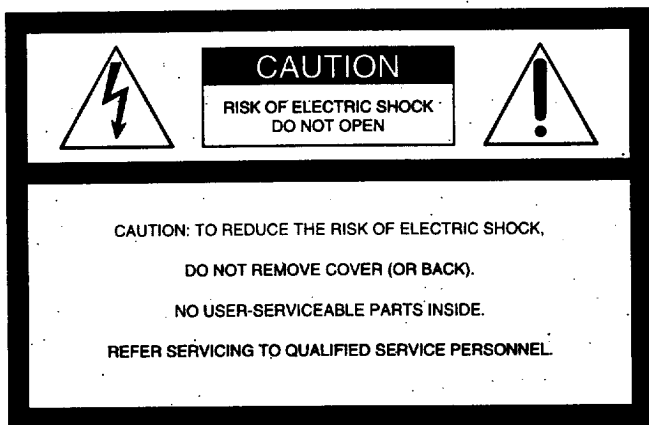
Operating Instructions \_\_\_\_\_

Manual de instrucciones \_\_\_\_\_

***KP-46V25***

# WARNING

**To prevent fire or shock hazard, do not expose the unit to rain or moisture.**



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## CAUTION

TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

## CAUTION

When using TV games, computers, and similar products with your projection TV, keep the brightness and contrast functions at low settings. If a fixed (non-moving) pattern is left on the screen for long periods of time at a high brightness or contrast setting, the image can be permanently imprinted onto the screen. These types of imprints are not covered by your warranty because they are the result of misuse.

## Note on Closed Caption (Caption Vision)

This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules.

## Note on CATV system installer

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Use of this television receiver for other than private viewing of programs broadcast on UHF or VHF or transmitted by cable companies for the use of the general public may require authorization from the broadcaster/cable company and/or program owner.

## Note on convergence adjustment

Before you use your projection TV, make sure to adjust convergence. For the procedure, see page 13.

## NOTIFICATION

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antennas
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

This document is for the remote commander. RM-Y131 MODELS: KP-46V25/53V25/61V25.

Please keep this notice with the instruction manual.

## Owner's Record

The model and serial numbers are located at the rear of the projection TV. Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_

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EN

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The captions in parentheses indicate menu names.

# Welcome!

Thank you for purchasing the Sony Color Rear Video Projection TV. Here are some of the features you will enjoy with your projection TV:

- AUTO SET UP feature that allows you to set up your projection TV easily by pressing the SET UP button
- On screen menus that let you set the picture quality, sound, and other settings
- Picture-in-Picture that allows you to watch another TV channel, video or cable image as a window picture
- On/off timer that allows you to make the TV program of your choice be displayed on the screen for a specified duration
- Dynamic Focus circuitry that automatically focuses the scanning electron beam for enhanced sharpness, especially at the corners
- Universal remote commander supplied that allows you to operate Sony and other manufacturers' video equipment

## About this manual

The instructions in this manual are for models KP-46V25, KP-53V25 and KP-61V25. Before you start reading this manual, please check your model number, located at the rear of the projection TV. Model KP-61V25 is used for illustration purposes in this manual. There are no differences between these models in operation. The differences in specifications are indicated in the text.

Instructions in this manual are based on use of the remote commander. You can also use the controls on the projection TV if they have the same name as those on the remote commander.

# Precautions

This projection TV operates on extremely high voltage. To prevent fire or electric shock, please follow the precautions below.

## Safety

- For KP-46V25/53V25/61V25 operate the projection TV only on 120 V AC, 60 Hz. For KP-53V25C operate it only on 220 V AC, 50/60 Hz.
- One blade of the plug is wider than the other for safety purposes and will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- Should any liquid or solid object fall into the cabinet, unplug the projection TV and have it checked by qualified personnel before operating it further.
- Unplug the projection TV from the wall outlet if you are not going to use it for several days or more. To disconnect the cord, pull it out by the plug. Never pull the cord itself.

For details concerning safety precautions, see the supplied leaflet "IMPORTANT SAFEGUARDS."

## Note on cleaning

Clean the cabinet of the projection TV with a dry soft cloth. To remove dust from the screen, wipe it gently with a soft cloth using vertical strokes only. Stubborn stains may be removed with a cloth slightly dampened with a solution of mild soap and warm water. Never use strong solvents such as thinner or benzine for cleaning.

If the picture becomes dark after using the projection TV for a long period of time, it may be necessary to clean the inside of the projection TV. Consult qualified service personnel.

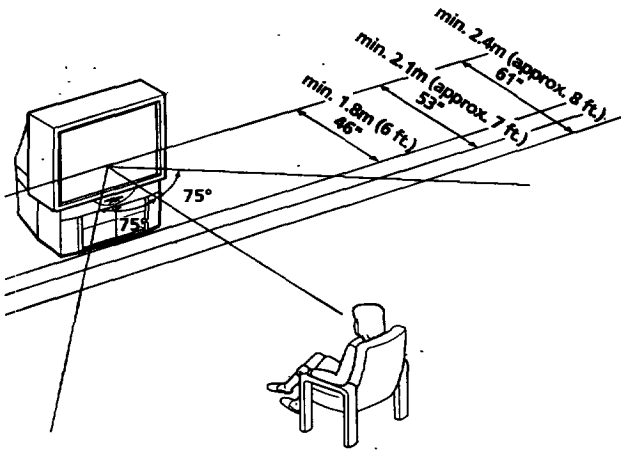
## Installing

- To prevent internal heat build-up, do not block the ventilation openings.
- Do not install the projection TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.
- Avoid operating the projection TV at temperatures below 5°C (41°F).
- If the projection TV is transported directly from a cold to a warm location, or if the room temperature has changed suddenly, the picture may be blurred or show poor color. This is because moisture has condensed on the mirror or lenses inside. If this happens, let the moisture evaporate before using the projection TV.
- To obtain the best picture, do not expose the screen to direct illumination or direct sunlight. It is recommended to use spot lighting directed down from the ceiling or to cover the windows that face the screen with opaque drapery. It is desirable to install the projection TV in a room where the floor and walls are not of reflecting material. If necessary, cover them with dark carpeting or wall paper.

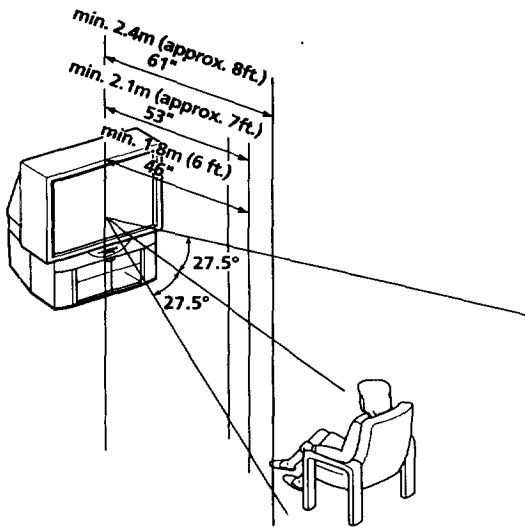
# Step 1: Installing the projection TV

For the best picture quality, install the projection TV within the areas shown below.

## Optimum viewing area (Horizontal)



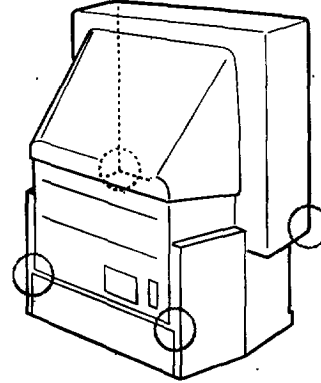
## Optimum viewing area (Vertical)



## Carrying your projection TV

Be sure to grasp the portions indicated when carrying the projection TV, and to use more than two people.

(Rear of projection TV)



## Preparing for your projection TV

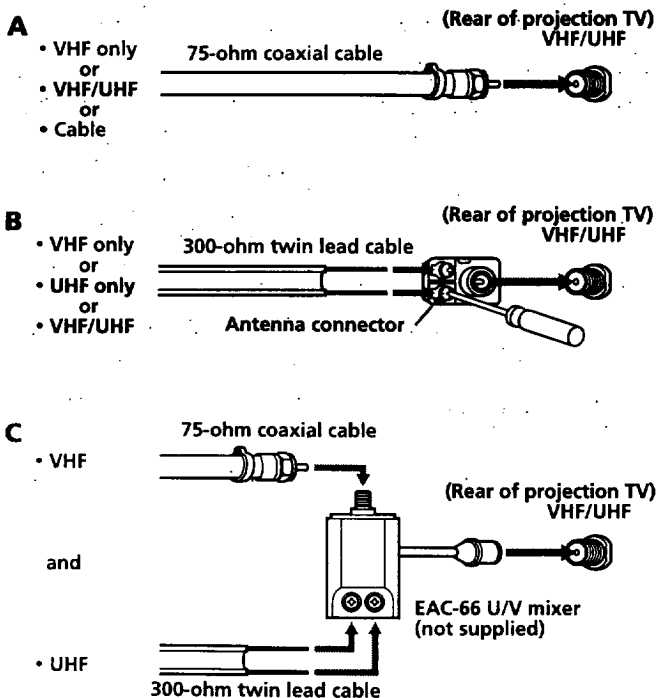
Before you use your projection TV, adjust convergence. For the procedure, see "Step 4: Setting up the projection TV automatically (AUTO SET UP)" on page 13.

# Step 2: Connections

Although you can use either an indoor antenna or outdoor antenna with your projection TV, we recommend connecting to an outdoor antenna or a cable TV system for improved picture quality.

## To an antenna

Connect your antenna cable to the VHF/UHF antenna terminal. If you cannot connect your antenna cable directly to the terminal, follow one of the instructions below depending on your cable type.

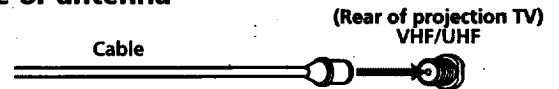


### Notes

- Most VHF/UHF combination antennas have a signal splitter. Remove the splitter before attaching the appropriate connector.
- If you use the U/V mixer, snow and noise may appear in the picture when viewing cable TV channels over 37(W+1).

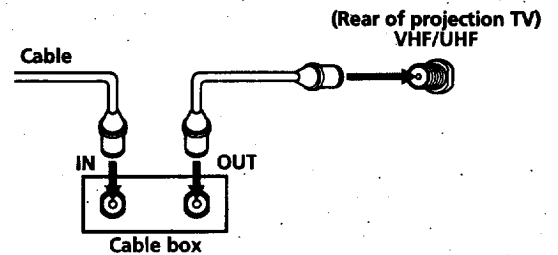
## Connecting an antenna/cable TV system without a VCR

### To cable or antenna

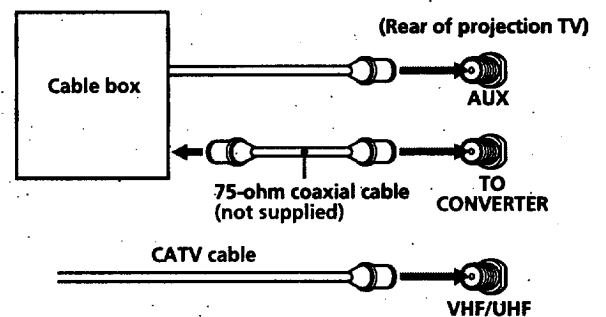


### To cable box

If your cable company requires you to connect a cable box, make the connection as follows:



### To cable box and cable



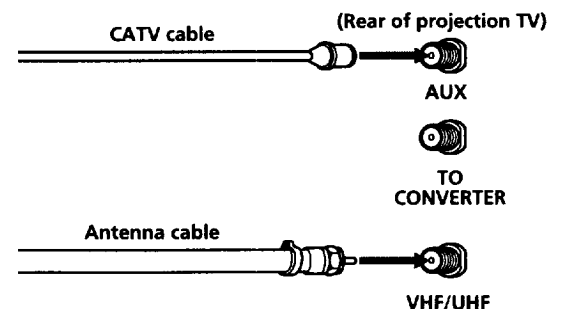
Pay cable TV systems use scrambled or encoded signals requiring the cable box\* in addition to the normal cable connection.

\* The cable box will be supplied by the cable company.

### Note

- You cannot watch the signal through AUX connector as a window picture.

### To cable and antenna



### Note

- Do not connect anything to the TO CONVERTER connector in this case.

## Connecting an antenna/cable TV system with a VCR

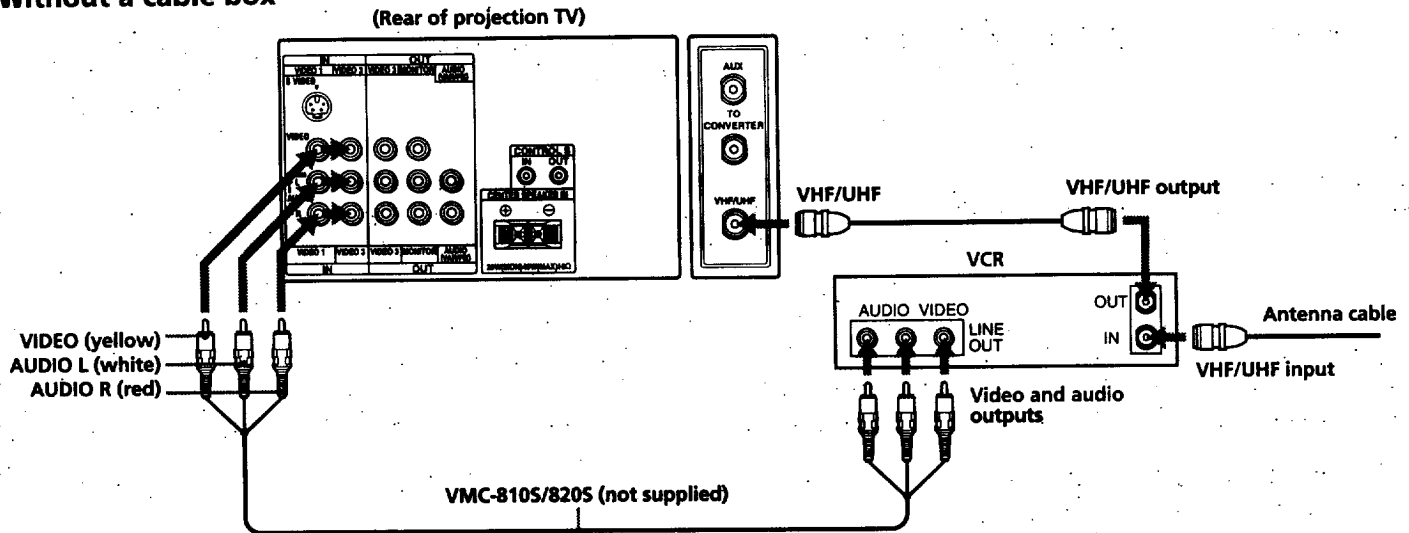
For details on connection, see the instruction manual of your VCR. Before connecting, disconnect the AC power cords of the equipment to be connected.

After making these connections, you will be able to do the following:

- View the playback of video tapes
- Record one TV program while viewing another program

### To a conventional VCR

Without a cable box

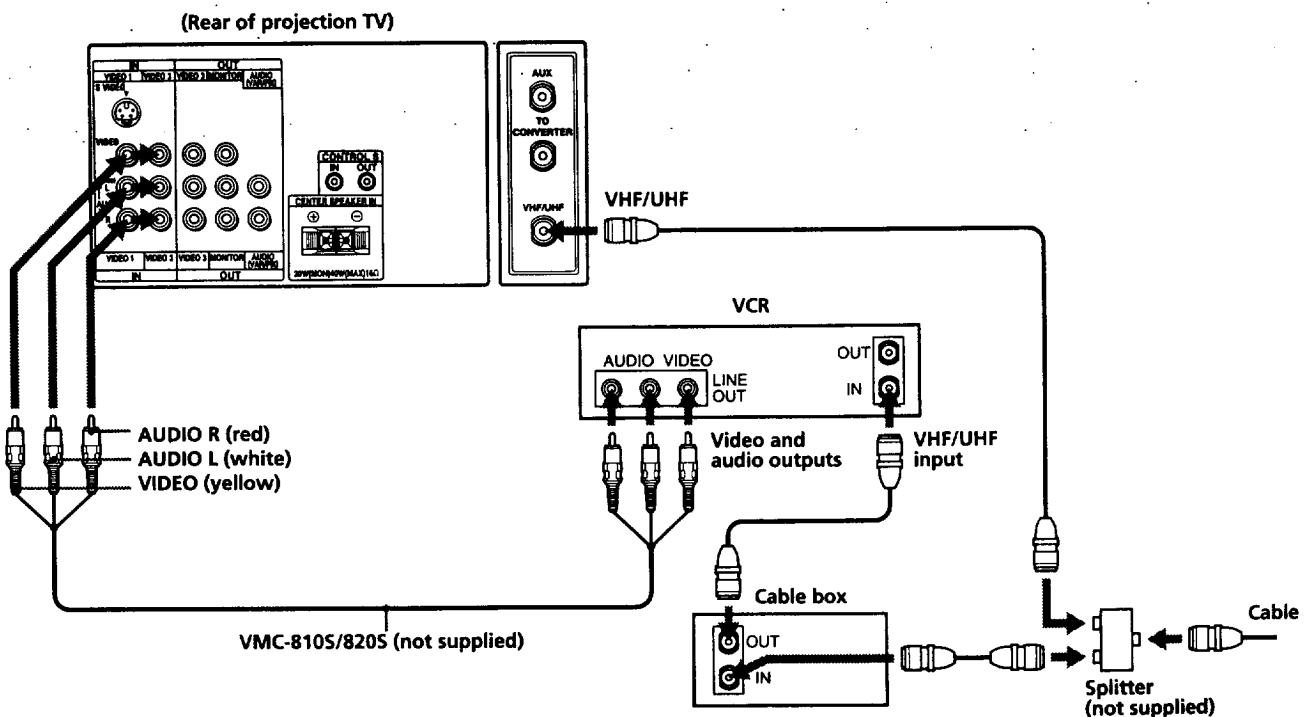


#### Notes:

- To connect a monaural VCR, connect the audio output of the VCR to AUDIO L (MONO) of VIDEO 1/3 IN on the projection TV.

- Do not connect the cable to the S VIDEO connector on the projection TV.

### With a cable box

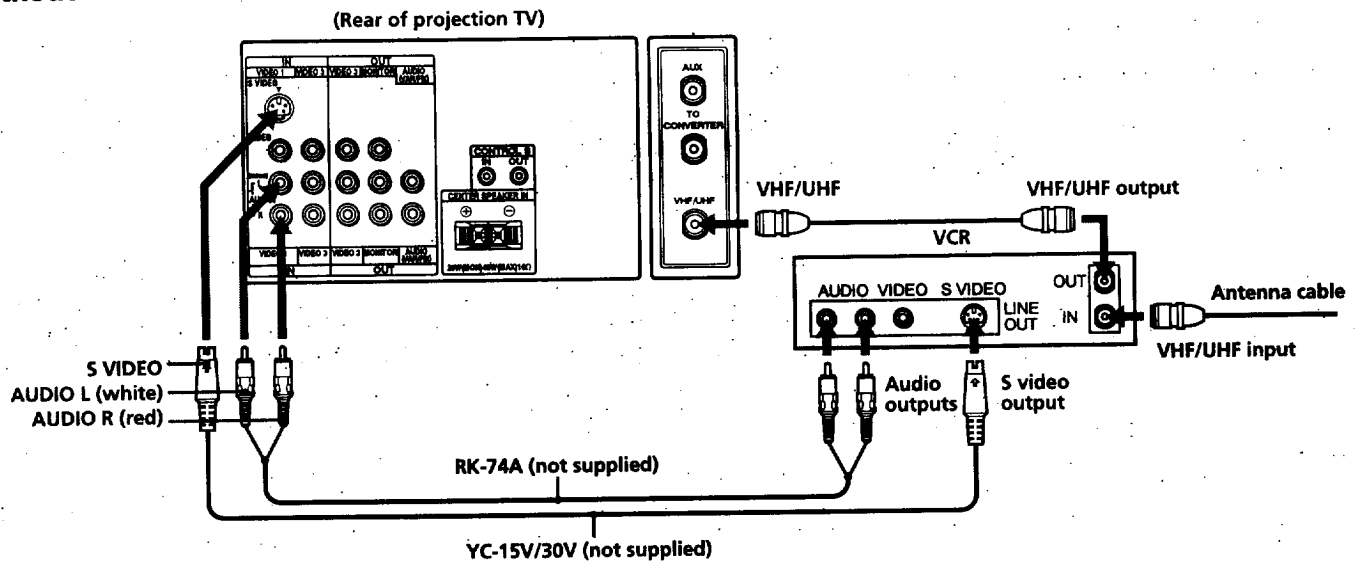


## To an S video equipped VCR

If your VCR has an S video output jack, make the connection as follows.

Whenever you connect the cable to the S VIDEO connector, the projection TV automatically receives S video signals.

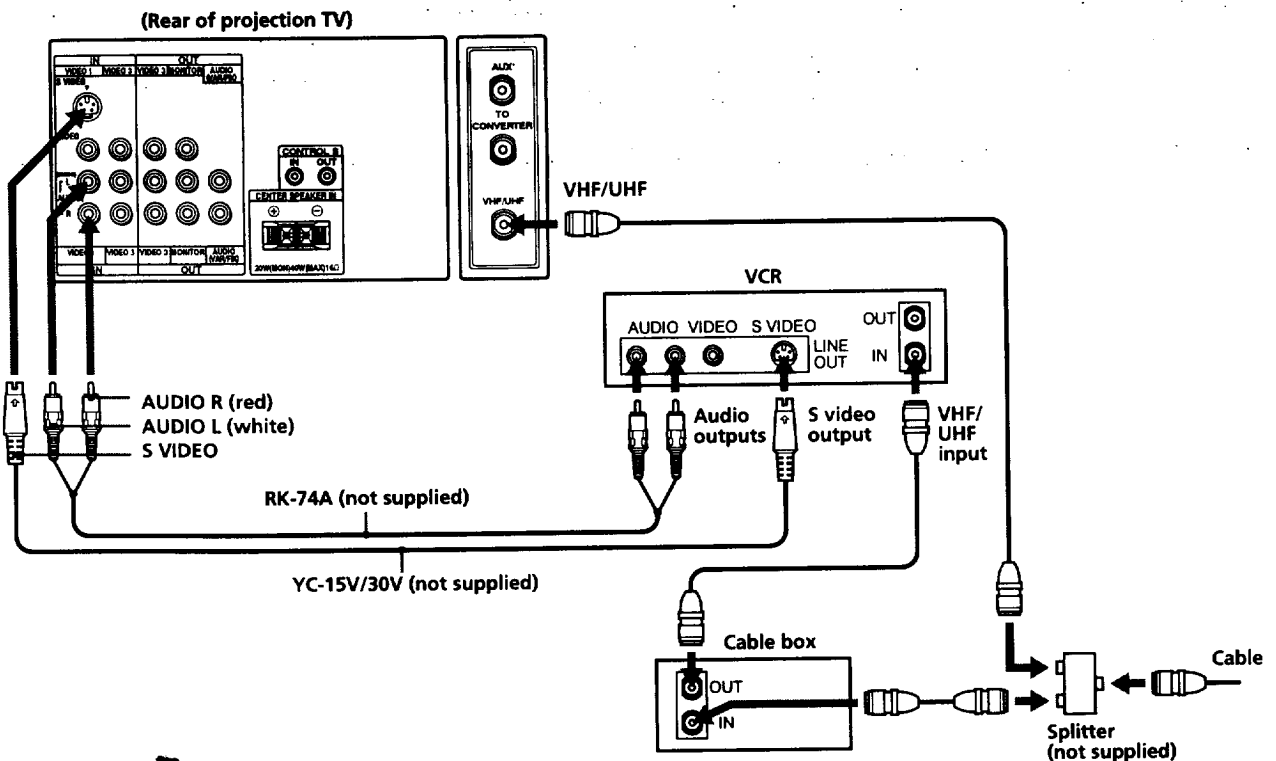
### Without a cable box



### Note

- Video signals are composed of Y (luminance) and C (chroma) signals. The S connection sends the two signals separately preventing degradation, and gives better picture quality compared to conventional connection.

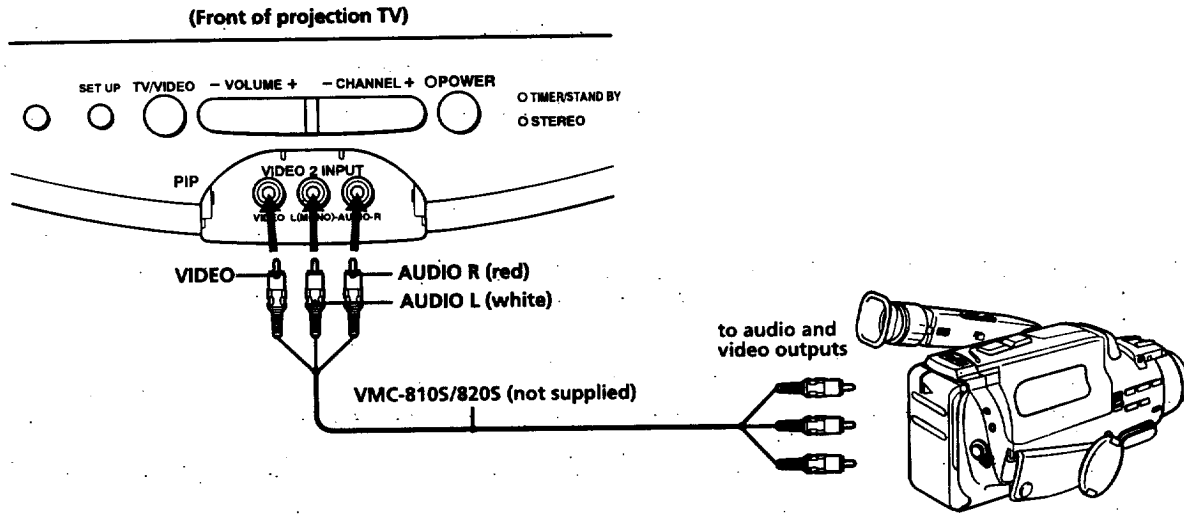
### With a cable box





## Connecting a camcorder

This connection is convenient for watching the picture from a camcorder.



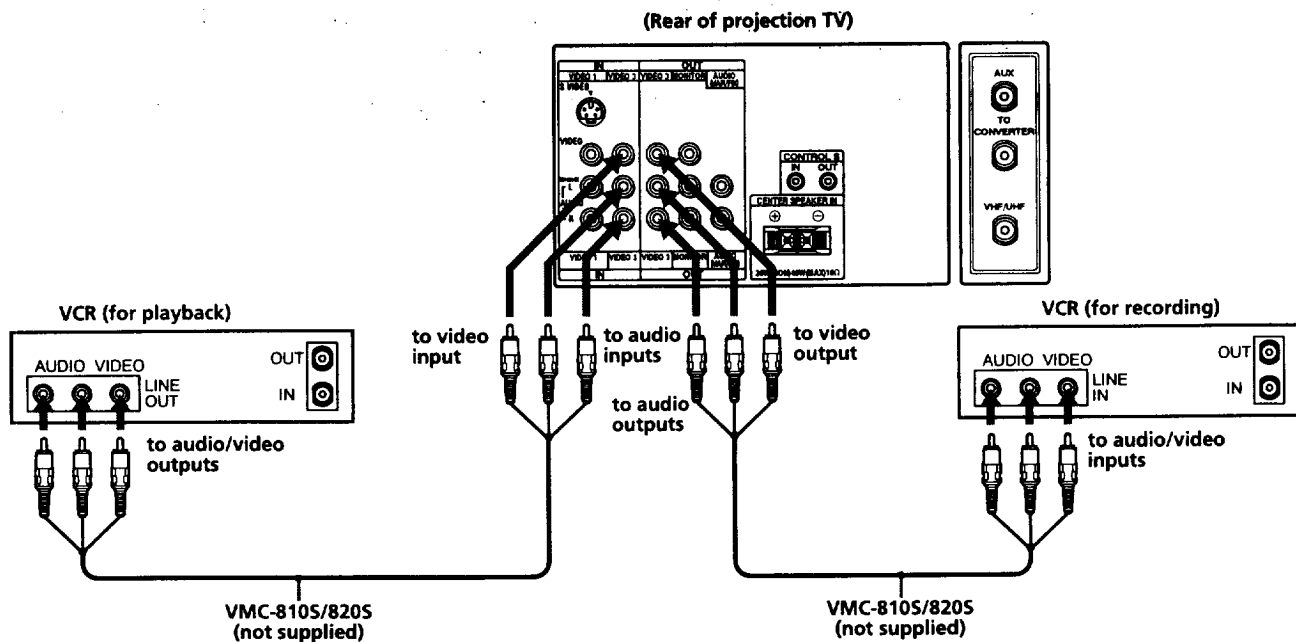
### Note

- To connect a monaural camcorder, connect the audio output of the camcorder to AUDIO L (MONO) of VIDEO 2 INPUT on the projection TV.

## Connecting two VCRs for tape editing using VIDEO 3 IN and OUT

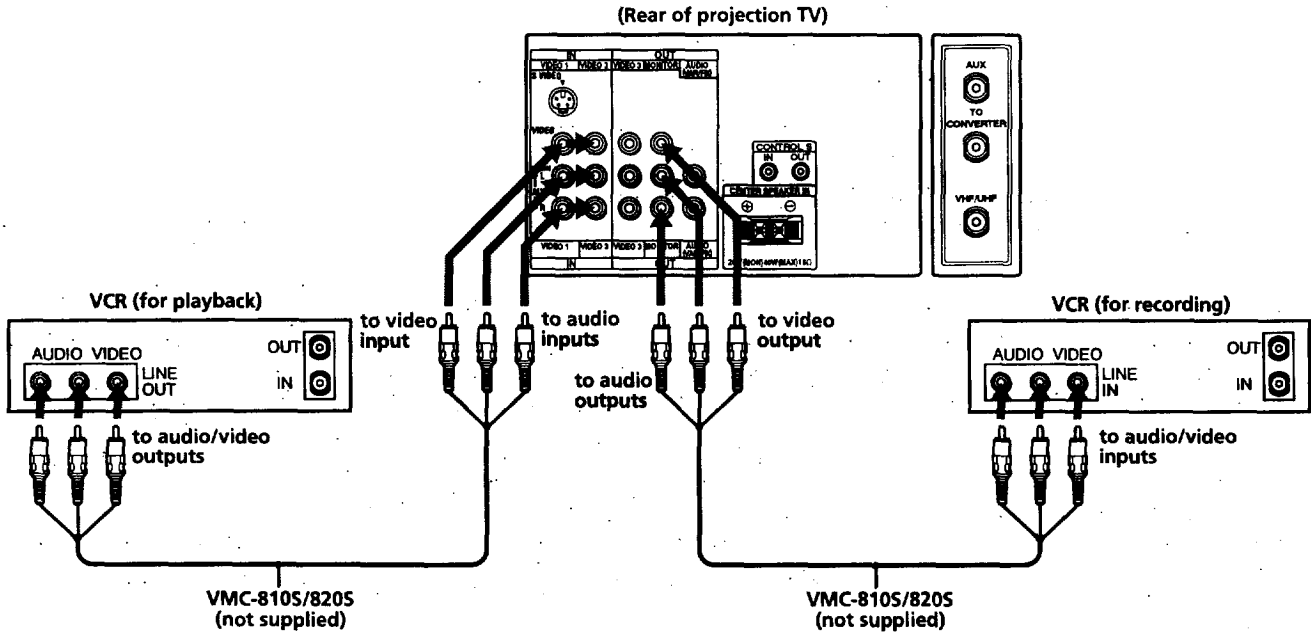
You can watch input images different from the image being recorded.

The VIDEO 3 OUT jacks output only the signal from the VIDEO 3 IN jacks. If you make the connection as shown below, you can watch images from either antenna, cable, VIDEO 1 IN or VIDEO 2 INPUT jacks during recording.



## Connecting two VCRs for tape editing using MONITOR OUT

You can record input images displayed on the screen. This type of connection should be used only when you connect from the line input of one VCR, and from the line output of a second VCR.

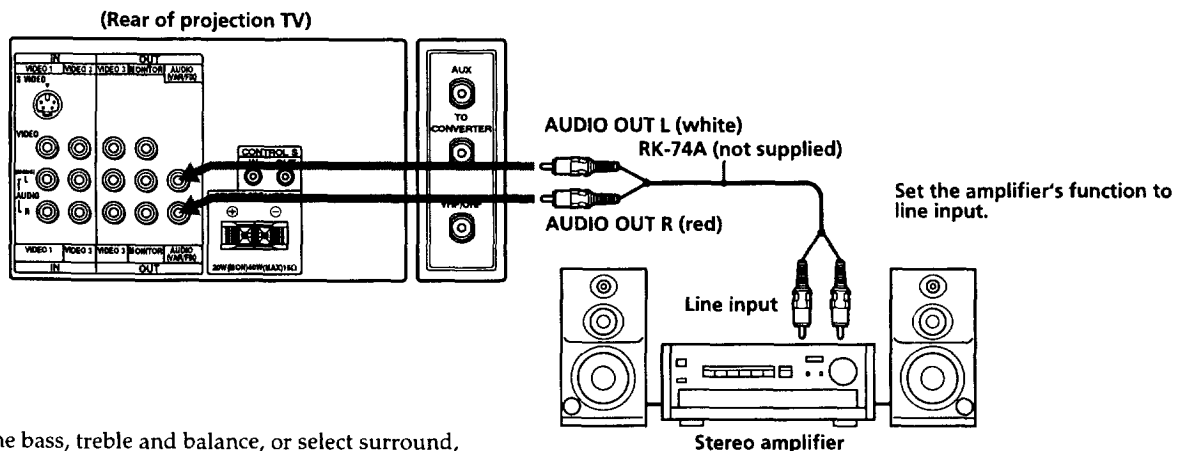


### Notes

- Do not change the input signal while editing through MONITOR OUT, or the output signal will also change.
- When connecting a single VCR to the projection TV, do not connect MONITOR OUT to the VCR's line input, while at the same time connecting from the projection TV's VIDEO IN jacks to the VCR's line output.
- You can use the S VIDEO connector to connect a VCR for playback and either S VIDEO connector or composite video jack to connect a VCR for recording.

## Connecting an audio system

When connecting audio equipment, see page 25 for more information.



### Note

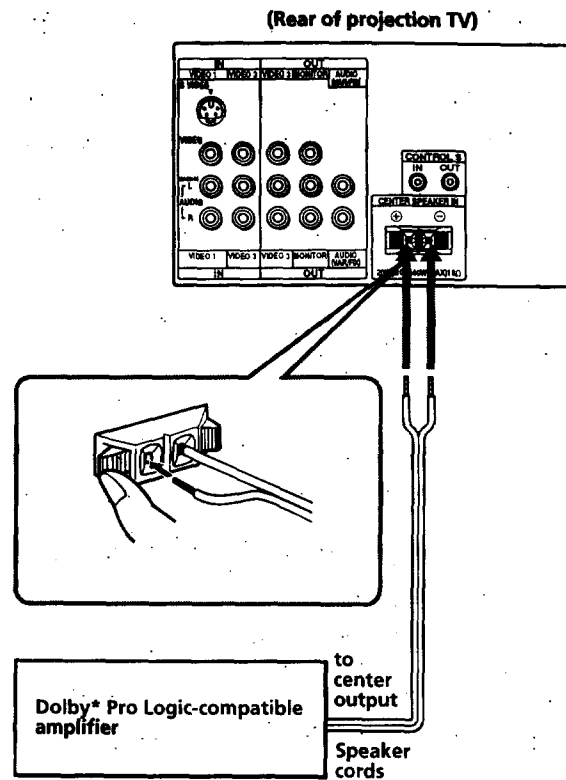
- You can adjust the bass, treble and balance, or select surround, an MTS (Multichannel TV Sound) or OSE (Orchestra Seat Effect) mode with the supplied remote commander.


## Using the projection TV speakers as center speakers

This feature allows you to enjoy the benefits of Dolby Pro Logic by using the speakers of the projection TV as the center speaker. To utilize this system, you must connect an amplifier that is Dolby Pro Logic compatible. Connect the speaker wires from the amplifier's center channel output terminals to the projection TV's CENTER SPEAKER IN. Both right and left terminals must be connected to receive an audio signal. After making the right connections, select "SPEAKER: CENTER" in the AUDIO menu (page 25). The left and right audio channels can be heard through your audio system speakers. In this connection, adjust the volume with your amplifier.

### Notes

- Always match the speaker cord and terminal colors when making the connections.
- Unplug the projection TV when making the connections. If the exposed speaker cord wires touch while the projection TV is plugged in, the projection TV may short-circuit and be damaged.
- Do not pull on the speaker cords.
- Always turn off the amplifier power before connecting to the CENTER SPEAKER IN terminals.

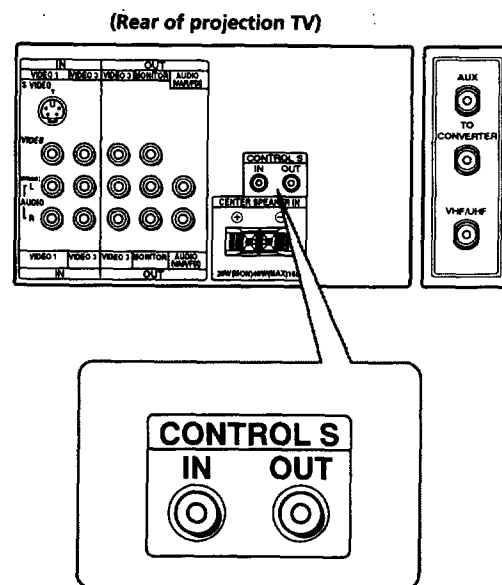


\* Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents: U.S. numbers 3,959,590. Canadian numbers 1,004,603 and 1,037,877. "Dolby", "Pro Logic", and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

## Connecting other Sony equipment with CONTROL S jack

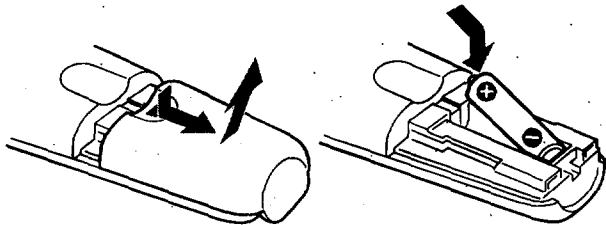
This feature allows you to control your projection TV and other Sony equipment with one remote commander.

- To control other Sony equipment with the projection TV's remote commander, connect the input of the equipment to CONTROL S OUT jack on the projection TV.
- To control the projection TV with the remote commander of other Sony equipment, connect the output of the equipment to CONTROL S IN jack on the projection TV.



# Step 3: Setting up the remote commander

Insert one size AA (R6) battery (supplied) by matching the + and - on the battery to the diagram inside the battery compartment.



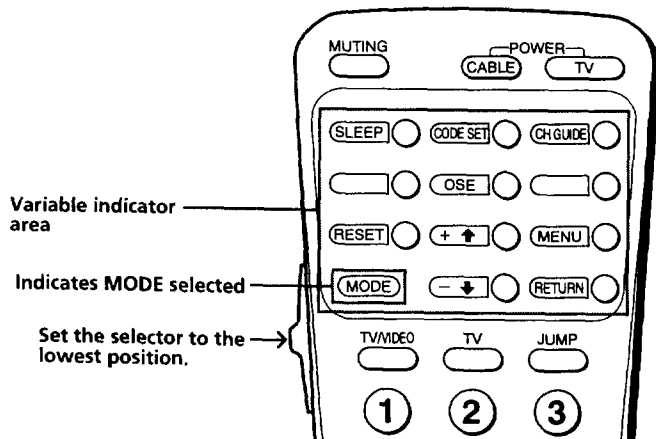
## Notes

- With normal use, the battery should last for approximately six months.
- If you do not use the remote commander for an extended period of time, remove the battery to avoid possible damage from battery leakage.
- Do not handle the remote commander roughly. Do not drop it, step on it or let it get wet.
- Do not place the remote commander in direct sunlight, near a heater, or where the humidity is high.

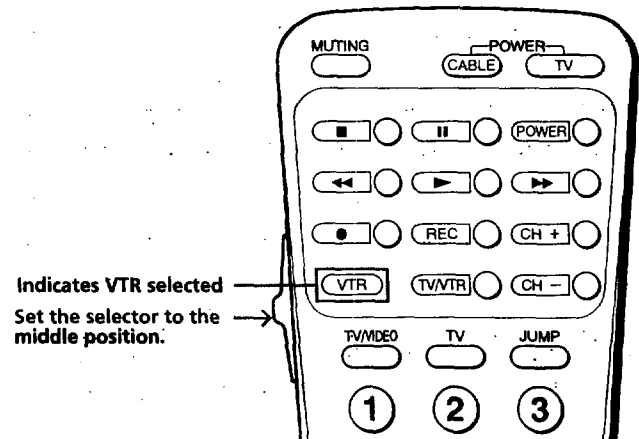
## Using the remote commander

The upper half of the remote commander has three selectable operation modes. Each button in this area has three different functions. You can select the mode by sliding a selector on the left side.

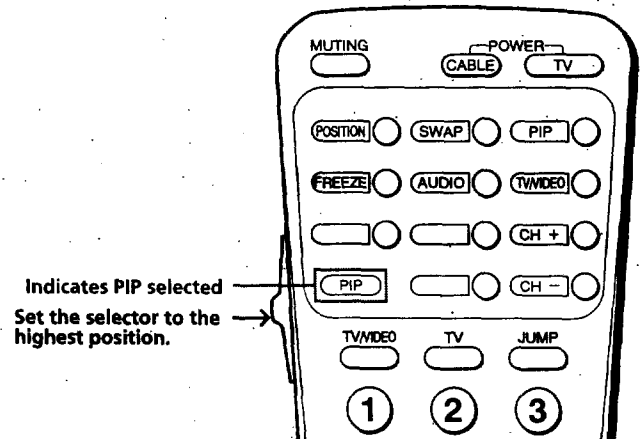
### For normal TV viewing



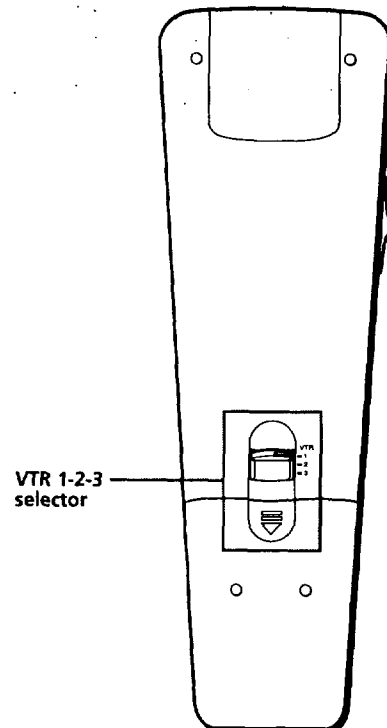
### For operating video equipment



### For using the Picture-in-Picture feature



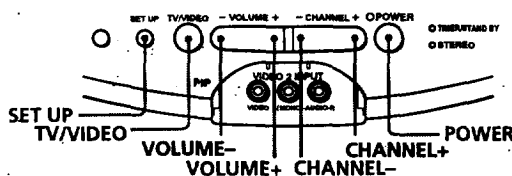
### Rear of the remote commander



# Step 4: Setting up the projection TV automatically (AUTO SET UP)

You can set up your projection TV easily by using AUTO SET UP feature. It presets all the receivable channels, adjusts the convergence and changes the on-screen menu language. To set up the TV manually, see "Adjusting convergence" (page 15), "Setting cable TV on or off" (page 15), "Presetting channels" (page 16) and "Changing the menu language" (page 16). If the TV is set to a video input, you cannot execute AUTO SET UP. Press TV/VIDEO so that a channel number appears.

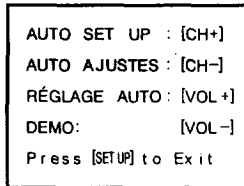
(Front of projection TV)



## 1 Press POWER to turn the projection TV on.

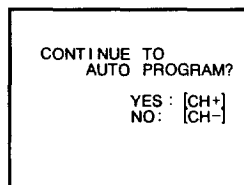
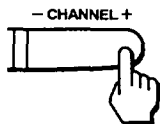


## 2 Press SET UP on the front of the projection TV.



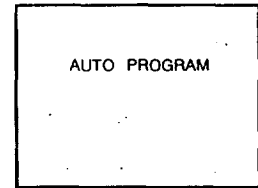
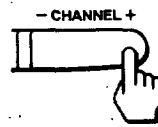
## 3 Press CHANNEL+ to start AUTO SET UP.

If you prefer Spanish or French to English, you can change the on-screen menu language. Press CHANNEL - for Spanish or VOLUME+ for French.

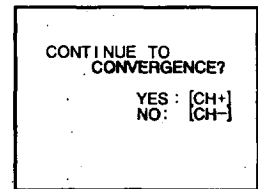


All of the menus will be set to the factory preset condition in the selected language.

## 4 Press CHANNEL+ to preset channels.



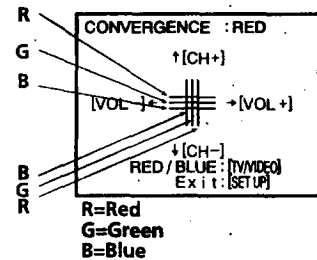
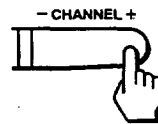
"AUTO PROGRAM" appears on the screen and the TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the following menu appears. If the projection TV receives cable TV channels, CATV is set to ON automatically.



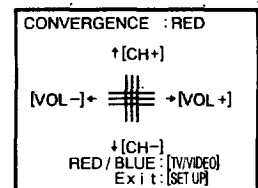
## 5 Adjust convergence.

### (1) Press CHANNEL+.

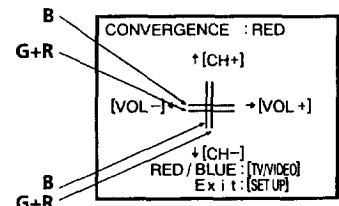
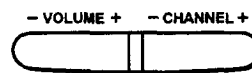
The CONVERGENCE adjustment screen appears.



### (2) Press TV/VIDEO to select RED or BLUE.



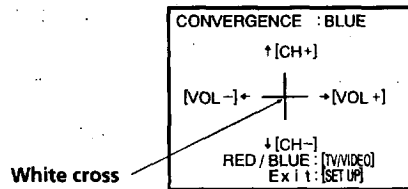
### (3) Using CHANNEL +/- or VOLUME +/-, move the line until it converges with the center green line.



To move horizontal line up/down, press CHANNEL+/-.  
To move vertical line right/left, press VOLUME+/-.

(continued)

- (4) Repeat steps (2) and (3) to adjust the other lines until all three lines converge and are seen as a white cross.



### Notes

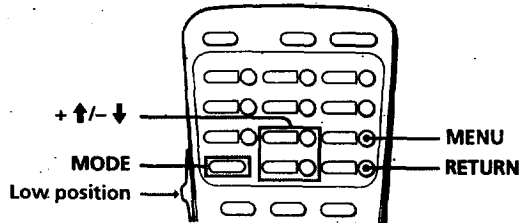
- If more than 90 seconds elapse after you press a button, the menu disappears automatically.
- In case of using the AUX connector, press the TV button on the remote commander first and make sure that "AUX" is displayed beside the channel number on the screen. Then follow steps 2 to 5 above to perform AUTO SET UP.

### To preview the main functions (DEMO)

Press VOLUME- in step 3. The functions and menus are displayed one by one.

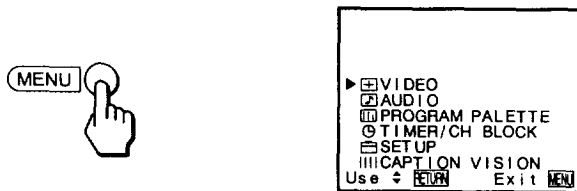
## Erasing or adding channels

After AUTO SET UP you can erase unnecessary channels or add the channels you want. Preset channels during the day rather than late at night, when some channels may not be broadcasting.



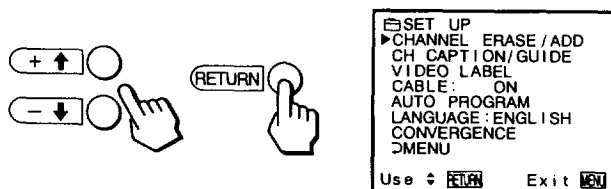
### 1 Press MENU.

The main menu appears.



### 2 Press +↑ or -↓ to move the cursor (▶) to SET UP and press RETURN.

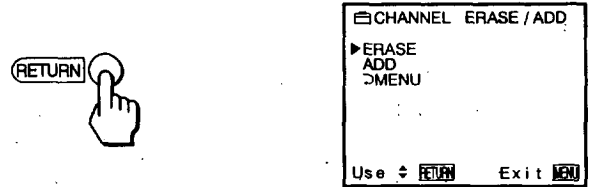
The SET UP menu appears.



### 3 Make sure the cursor (▶) is beside CHANNEL ERASE/ADD and press RETURN.

If the cursor is not beside CHANNEL ERASE/ADD, press +↑ or -↓ to move the cursor and press RETURN.

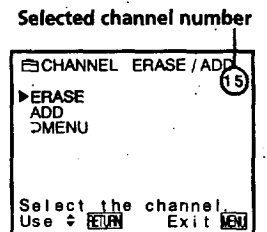
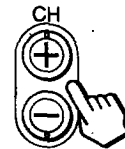
The CHANNEL ERASE/ADD menu appears.



### 4 Erase and/or add the channel you want:

**To erase an unwanted channel**

- (1) Make sure the cursor (▶) is beside ERASE.
- (2) Press CH + or - to select the channel you want to erase.



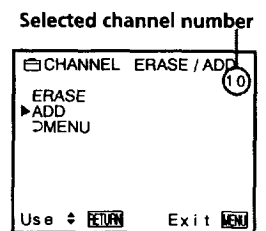
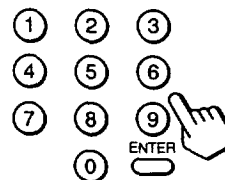
- (3) Press RETURN.

The indication "-" appears beside the channel number, showing that the channel is erased from the preset memory.



**To add a channel that you want**

- (1) Press +↑ or -↓ to select ADD.
- (2) Press 0 - 9 button to select the channel you want to add and press ENTER.



- (3) Press RETURN.

The indication "+" appears beside the channel number, showing that the channel is added to the preset memory.



- 5 To erase and/or add other channels, repeat step 4.
- 6 When you finish, press MENU.



#### Notes

- If you erase or add a VHF or UHF channel, the cable TV channel with the same number is also erased or added, and vice versa.
- If more than 90 seconds elapse after you press a button, the menu disappears automatically.
- Erasing and adding channels are also available for the AUX input.

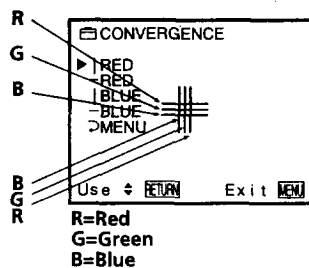
### Adjusting convergence (CONVERGENCE)

The projection tube image appears on the screen in three layers (red, green and blue). If they do not converge, the color is poor and the picture blurs. To correct this, adjust convergence.

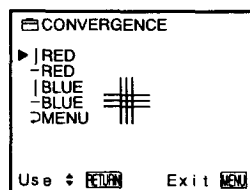
You do not have to do this procedure if you execute AUTO SET UP (page 13). Do this procedure only when you want to adjust it manually.

- 1 Press MENU.
- 2 Press + ↑ or - ↓ to move the cursor (▶) to SET UP and press RETURN.
- 3 Press + ↑ or - ↓ to move the cursor (▶) to CONVERGENCE and press RETURN.

The CONVERGENCE adjustment screen appears.

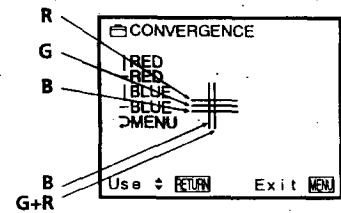


- 4 Press + ↑ or - ↓ to move the cursor (▶) to the symbol showing the line you want to adjust, and press RETURN.



- | RED: Red vertical line (left/right adjustment)
- RED: Red horizontal line (up/down adjustment)
- | BLUE: Blue vertical line (left/right adjustment)
- BLUE: Blue horizontal line (up/down adjustment)

- 5 Press + ↑ or - ↓ to move the line until it converges with the center green line, and press RETURN.



To move up/right, press + ↑.  
To move down/left, press - ↓.

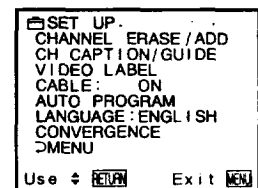
- 6 Repeat steps 4 and 5 to adjust the other lines until all three lines converge and are seen as a white cross.
- 7 Press MENU to return to the original screen.

### Setting cable TV on or off

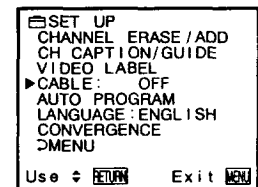
If you have connected the projection TV to a cable TV system, set CABLE to ON, the factory setting. If not, set CABLE to OFF.

You do not have to do this procedure if you execute AUTO SET UP (page 13). Do this procedure only when you want to set it manually.

- 1 Press MENU.
- 2 Press + ↑ or - ↓ to move the cursor (▶) to SET UP and press RETURN.
- 3 Press + ↑ or - ↓ to move the cursor (▶) to CABLE and press RETURN.



- 4 Press + ↑ or - ↓ to select ON or OFF and press RETURN.



- 5 Press MENU to return to the original screen.

#### Note

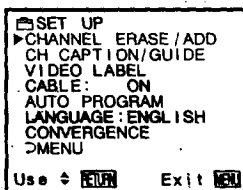
- If CABLE appears in black, the projection TV is set to a video input and you cannot select CABLE. Press TV on the remote commander so that a channel number appears.

## Presetting channels

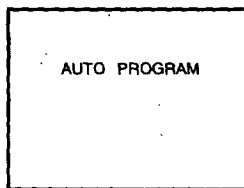
You can preset TV channels easily by AUTO PROGRAM feature.

You do not have to do this procedure if you execute AUTO SET UP (page 13). Do this procedure only when you want to set it manually.

- 1 Press **MENU**.
- 2 Press + **↑** or - **↓** to move the cursor (**▶**) to **SET UP** and press **RETURN**.



- 3 Press + **↑** or - **↓** to move the cursor (**▶**) to **AUTO PROGRAM** and press **RETURN**.



"AUTO PROGRAM" appears on the screen and the projection TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the lowest numbered channel is displayed.

- 4 Press **MENU** to return to the original screen.

### Notes

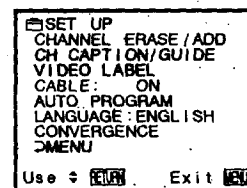
- If AUTO PROGRAM appears in black in the SET UP menu, the projection TV is set to a video input and you cannot select AUTO PROGRAM. Press TV/VIDEO or TV on the remote commander so that a channel number appears.
- If more than 90 seconds elapse after you press a button, the menu disappears automatically.
- Presetting channels is also available for the AUX input.

## Changing the menu language

If you prefer Spanish or French to English, you can change the menu language.

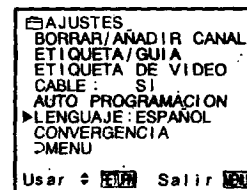
You do not have to do this procedure if you execute AUTO SET UP (page 13). Do this procedure only when you want to set it manually.

- 1 Press **MENU**.
- 2 Press + **↑** or - **↓** to move the cursor (**▶**) to **SET UP** and press **RETURN**.
- 3 Press + **↑** or - **↓** to move the cursor (**▶**) to **LANGUAGE** and press **RETURN**.



- 4 Press + **↑** or - **↓** to select the language and press **RETURN**.

The menu in selected language appears.



- 5 Press **MENU** to return to the original screen.

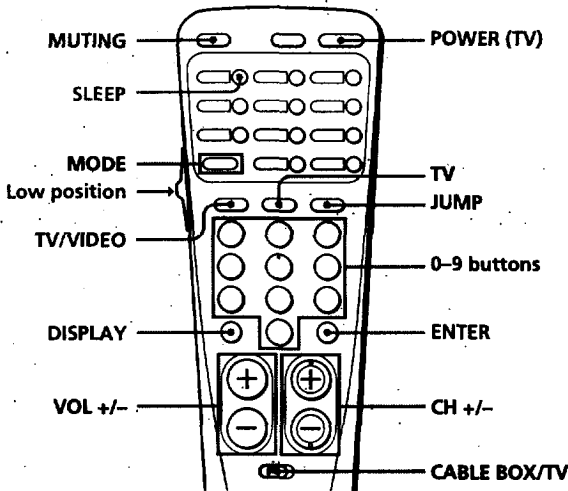
### Note

- Even when you select Spanish or French language, certain parts of the menus remain in English.

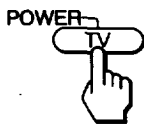


# Watching TV programs

Check that the CABLE BOX/TV selector is set to TV.



- 1 Press POWER (TV) to turn on the projection TV.**  
The TIMER/STAND BY indicator flashes until the picture appears.

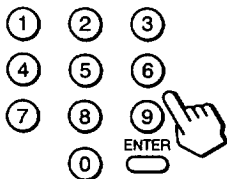


If "VIDEO" appears on the screen, press the TV/VIDEO or TV button so that a channel number appears.

- 2 Select the channel you want to watch:**

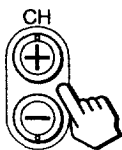
**To select a channel directly**

Press the 0 - 9 buttons and then press ENTER. For example, to select channel 10, press 1, 0 and ENTER.

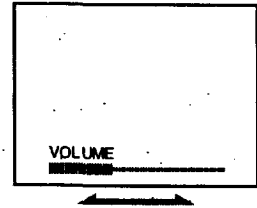
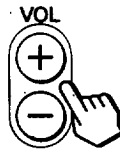


**To scan through channels**

Press CH +/- until the channel you want to watch appears.



- 3 Press VOL +/- to adjust the volume.**



## Switching quickly between two channels

**Press JUMP.**

The channel you previously selected with the 0-9 buttons appears.



Pressing JUMP again switches back the channel.

## Muting the sound

**Press MUTING.**

"MUTING" appears on the screen.



To restore the sound, press MUTING again, or press VOL +.

## Displaying on-screen information

Use this feature to check the channel number, current time (if set), channel caption (if set), and MTS mode (if SAP is selected).

**Press DISPLAY.**



To cancel the display, press DISPLAY until "DISPLAY OFF" appears.

## Setting the Sleep Timer

The projection TV stays on for the length of time you specify and then shuts off automatically.

**Press SLEEP repeatedly until the time (in minutes) you want appears.**

Each time you press SLEEP, the time changes as follows: 30 → 60 → 90 → OFF.



"SLEEP" appears about one minute before the projection TV shuts off.

To cancel the Sleep Timer, press SLEEP repeatedly until "SLEEP OFF" appears, or turn off the projection TV.

The sleep timer is also cancelled when you select AUTO PROGRAM under the SET UP menu.

## Watching a video input picture

**Press TV/VIDEO repeatedly until the desired video input appears.**

Each time you press TV/VIDEO, the display changes as follows: TV → VIDEO 1 → VIDEO 2 → VIDEO 3.



To return to TV picture, press TV.

## Changing the VHF/UHF input to the AUX input

**Press TV.**

"AUX" appears beside the channel number.

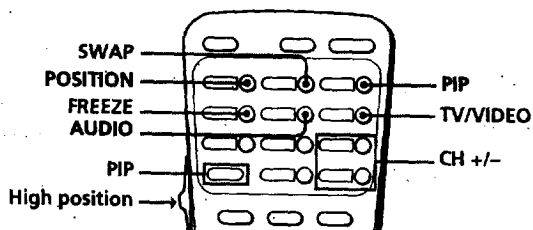


Pressing TV again switches back to the previous input.

## Watching two programs at one time — PIP

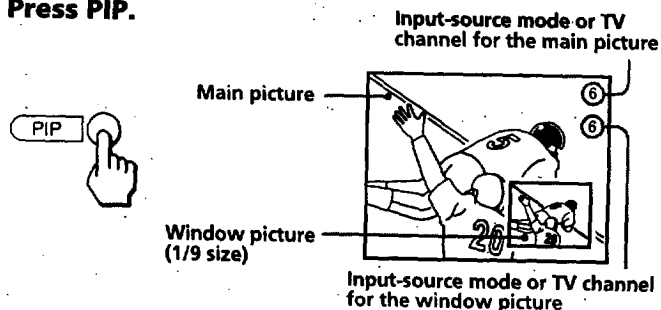
The Picture-in-Picture (PIP) feature allows you to watch both the main picture and a window picture simultaneously.

You can watch two TV channels at one time.

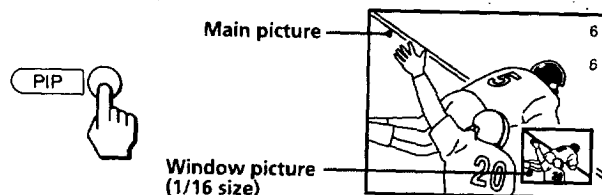


## Displaying a window picture

**Press PIP.**



**Press PIP again to display a smaller window picture.**



Each time you press PIP, the size of the window picture changes as follows: 1/9 size → 1/16 size → OFF.

To remove the window picture, press PIP repeatedly until the window picture disappears.

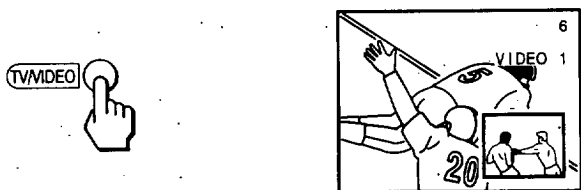
### Notes

- If the main picture is not receiving an image, the window picture may be in black and white.
- The window picture sound is also output from the AUDIO (VAR/FIX) OUT jacks when you listen to it.

## Changing the window picture input mode

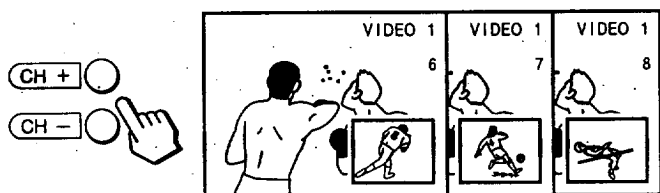
Press **TV/VIDEO** in the PIP control area of the remote commander to select the input mode.

Each time you press TV/VIDEO, "TV," "VIDEO 1," "VIDEO 2" and "VIDEO 3" appear in sequence.



## Changing TV channels in the window picture

Press **CH +/-** in the PIP control area.



## Listening to the sound of the window picture

Press **AUDIO**.

"♪" appears for a few seconds, indicating that the window picture sound is being received.

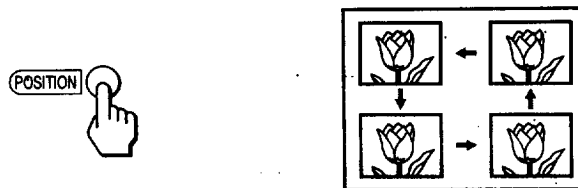


To restore the main picture sound, press **AUDIO** again.

## Changing the position of the window picture

Press **POSITION**.

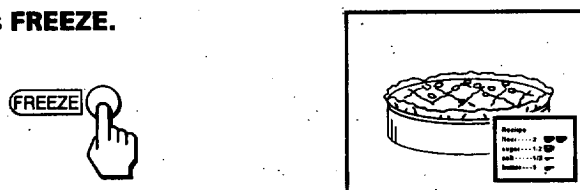
Each time you press POSITION, the window picture will move as illustrated.



## Freezing the window picture

This feature is useful when you want to write down a recipe from a cooking program, a displayed address or a phone number and so on.

Press **FREEZE**.

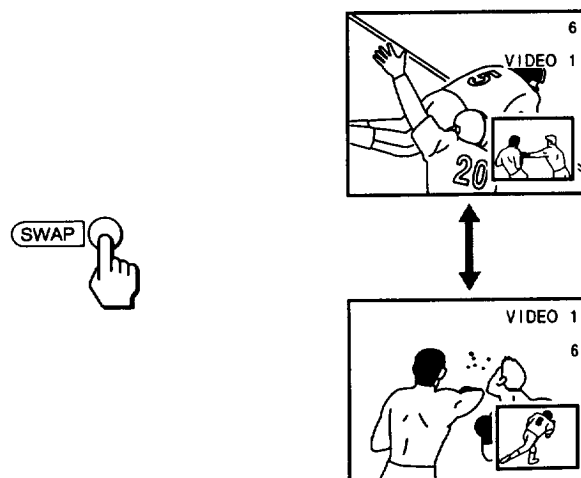


To restore the normal screen, press **FREEZE** again.

## Swapping the main and window pictures

Press **SWAP**.

Each time you press SWAP, the images and sound from the main and window pictures switch places with another.

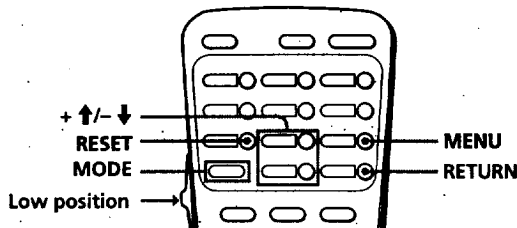


### Note

- The channels being received through the AUX jack cannot be displayed as a window picture.

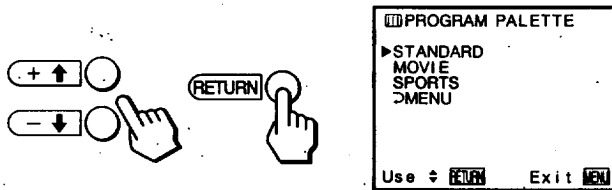
# Selecting picture and sound effects (PROGRAM PALETTE)

You can select one of three settings for picture and sound effects that best suits the program.  
You can also adjust picture effect for each setting to suit your taste.



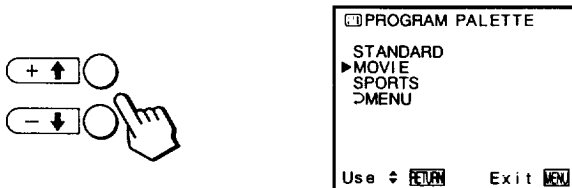
**1 Press MENU.**

**2 Press + ↑ or - ↓ to select PROGRAM PALETTE and press RETURN.**



**3 Select the item you want to adjust.**  
**For example:**

(1) To select MOVIE, press + ↑ or - ↓ to move the cursor to MOVIE.



(2) Press RETURN.



For details on each item, see "Effect of three items" in the right column.

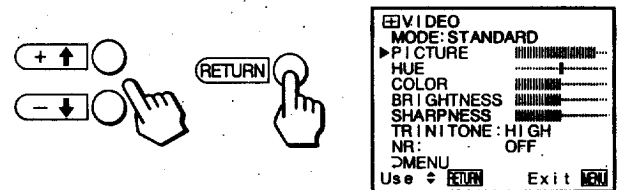
## Effect of three items

Item	Picture effect	Sound effect
STANDARD	Standard	Standard
MOVIE	Finely detailed picture	Theatrical audio effect
SPORTS	Vivid, bright picture	Sound with a sports stadium effect

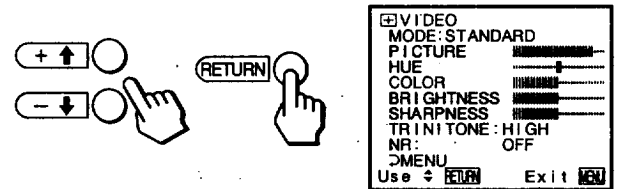
## Adjusting the picture in PROGRAM PALETTE

**1 Press MENU.**

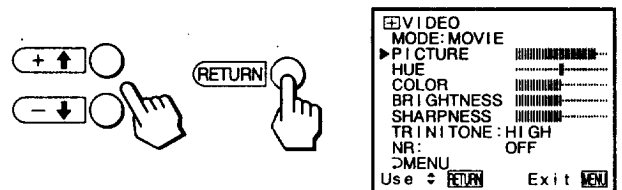
**2 Press + ↑ or - ↓ to select VIDEO and press RETURN.**



**3 Press + ↑ or - ↓ to select MODE and press RETURN.**



**4 Press + ↑ or - ↓ to select the item which you want to adjust and press RETURN.**



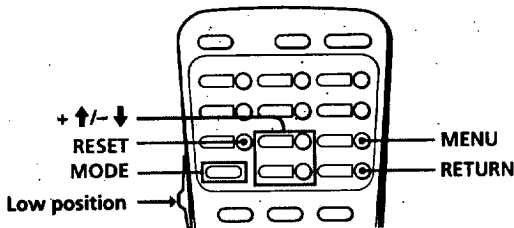
**5 Adjust the picture according to the steps 3 to 5 in "Adjusting the picture" on page 21.**

## To restore the factory setting

Press RESET while the VIDEO menu is displayed.

# Adjusting the picture (VIDEO)

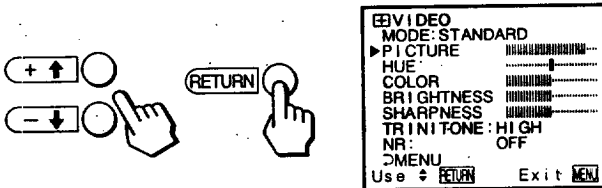
When watching TV programs, you can adjust the quality of the picture to suit your taste. The adjusted level is stored in PROGRAM PALETTE in which that adjustment is done.



**1 Press MENU.**

**2 Press + ↑ or - ↓ to move the cursor to VIDEO and press RETURN.**

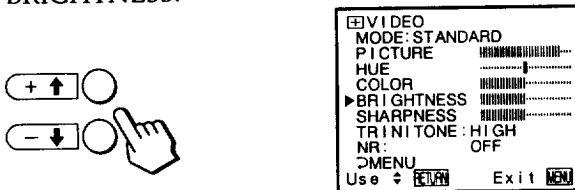
The VIDEO adjustment menu appears.



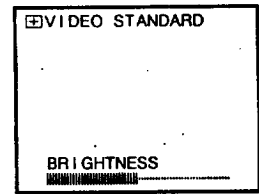
**3 Select the item you want to adjust.**

**For example:**

(1) To adjust brightness, press + ↑ or - ↓ to select BRIGHTNESS.

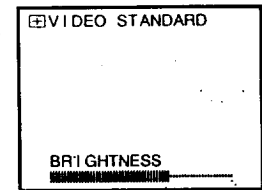
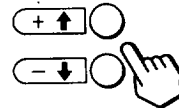


(2) Press RETURN.



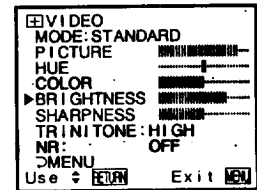
**4 Adjust the selected item:**

(1) Press + ↑ or - ↓ to adjust the item.



(2) Press RETURN.

The new setting appears in the VIDEO menu, and is stored in the displayed PROGRAM PALETTE mode.



For details on each item, see "Description of adjustable items" below.

**5 To adjust other items, repeat steps 3 and 4.**

**Description of adjustable items.**

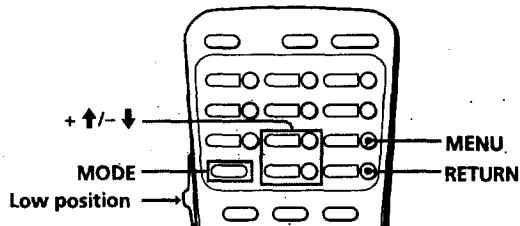
Item	Press + ↑ to	Press - ↓ to
PICTURE	Increase picture contrast for vivid color	Decrease picture contrast for soft color
HUE	Make overall picture greenish	Make overall picture purplish
COLOR	Increase color intensity	Decrease color intensity
BRIGHTNESS	Brighten the picture	Darken the picture
SHARPNESS	Sharpen the picture	Soften the picture

**To restore the factory setting**

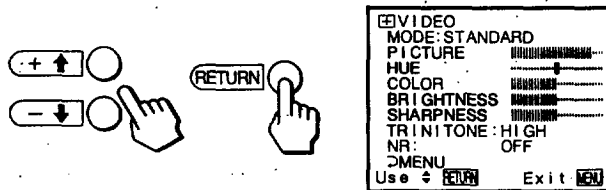
Press RESET on the remote commander.

# Adjusting the color temperature (TRINITONE)

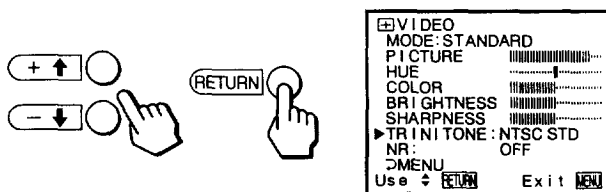
The TRINITONE feature controls the color temperature, permitting white balance preference adjustment without affecting skin tones.



- 1** Press MENU.
- 2** Press + ↑ or - ↓ to select VIDEO and press RETURN.
- 3** Press + ↑ or - ↓ to select TRINITONE and press RETURN.



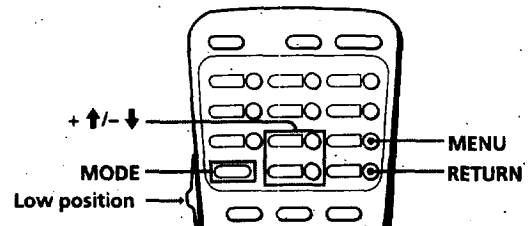
- 4** Press + ↑ or - ↓ to select NTSC STD, MEDIUM or HIGH and press RETURN.



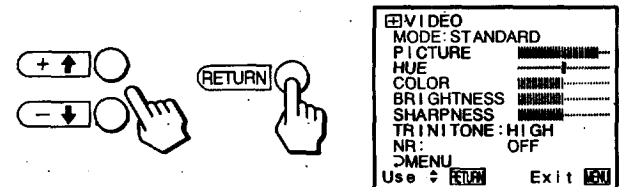
Choose	To
NTSC STD	Make the white color reddish.
MEDIUM	Make the white color whitish.
HIGH	Make the white color bluish.

# Reducing picture noise (NR)

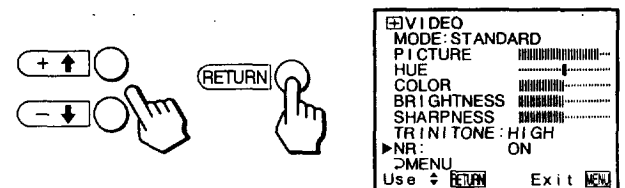
You can reduce picture noise when NR is set to ON.



- 1** Press MENU.
- 2** Press + ↑ or - ↓ to select VIDEO and press RETURN.
- 3** Press + ↑ or - ↓ to select NR and press RETURN.



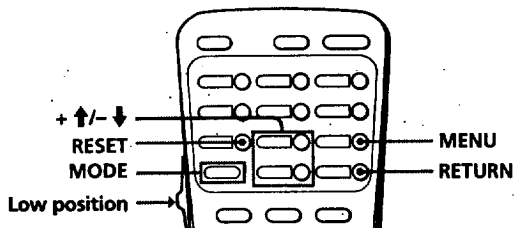
- 4** Press + ↑ or - ↓ to select ON and press RETURN.



# Adjusting sound

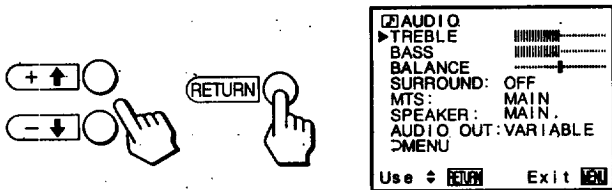
## (AUDIO)

You can adjust the quality of the TV sound to suit your taste. You can adjust the sound of video input(s) as well, and these settings are stored separately from those for the broadcast signal.



### 1 Press MENU.

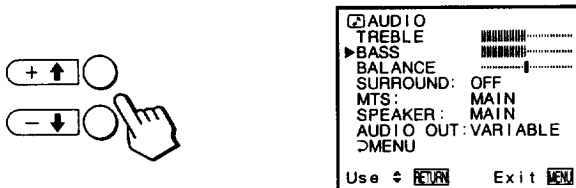
### 2 Press + ↑ or - ↓ to select AUDIO and press RETURN.



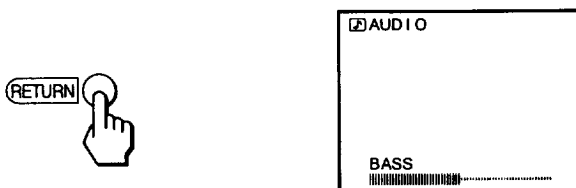
### 3 Select the item you want to adjust.

For example:

(1) To adjust bass, press + ↑ or - ↓ to select BASS.

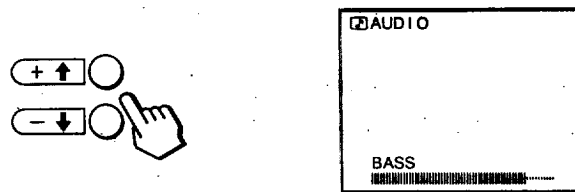


(2) Press RETURN.



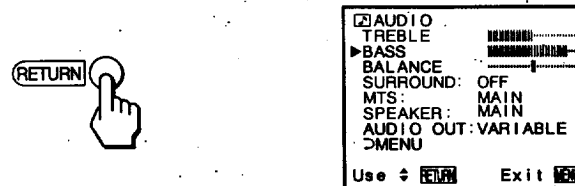
### 4 Adjust the selected item:

(1) Press + ↑ or - ↓ to adjust the item.



(2) Press RETURN.

The new setting appears in the AUDIO menu.



For details on each item, see "Description of adjustable items" below.

### 5 To adjust other items, repeat steps 3 and 4 above.

#### Description of adjustable items

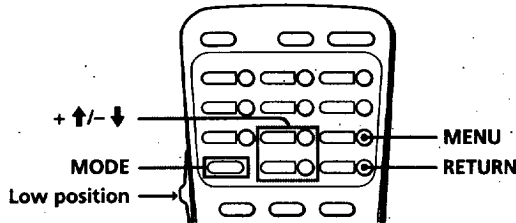
Item	Press + ↑ to	Press - ↓ to
TREBLE	Increase the treble response.	Decrease the treble response.
BASS	Increase the bass response.	Decrease the bass response.
BALANCE	Emphasize the right speaker's volume.	Emphasize the left speaker's volume.

#### To restore the factory settings

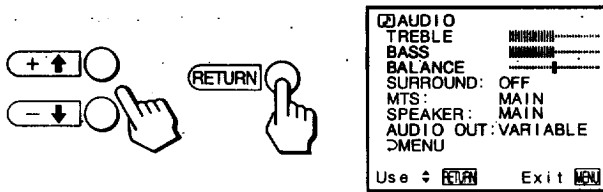
Press RESET on the remote commander.

# Listening to surround sound (SURROUND)

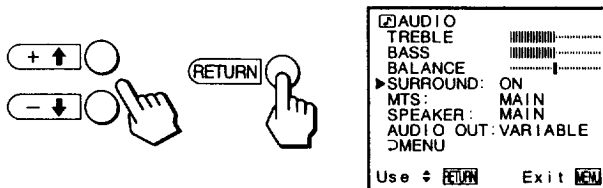
The SURROUND feature simulates sound reproduction with the atmosphere of a movie theater or a concert hall. Surround sound is only effective for stereo programs.



- 1 Press MENU.
- 2 Press + ↑ or - ↓ to select AUDIO and press RETURN.
- 3 Press + ↑ or - ↓ to select SURROUND and press RETURN.

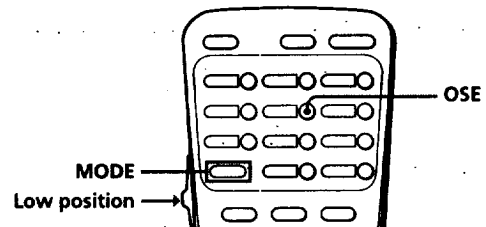


- 4 Press + ↑ or - ↓ to select ON and press RETURN.



# Listening to orchestra seat effect sound—OSE

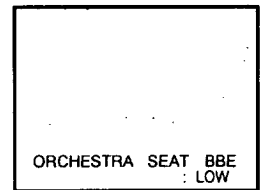
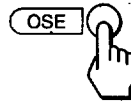
Orchestra Seat Effect\* (OSE) feature restores the harmonic balance of the sound to dramatically improve the overall reproduction of programs. It gives the sound more clarity, depth, and definition, making the sound more dynamic.



## Press OSE.

Each time you press OSE, the display changes as follows:

ORCHESTRA SEAT BBE: LOW → ORCHESTRA SEAT BBE: HIGH  
 ← no indication →



We recommend LOW setting for news programs and HIGH setting for music, sports, video games and movies.

For the best sound quality, we recommend that AUDIO to be set at factory setting when OSE is set to ON.

\* Orchestra Seat™ Sound Effect\* (OSE) feature restores the harmonic balance of the sound to dramatically improve the overall reproduction of programs. Orchestra Seat™ Sound Effect is using BBE technology under licence from BBE sound Inc.

## Note

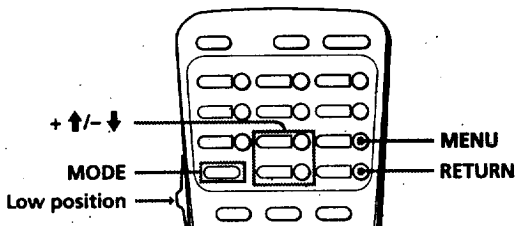
- OSE may also be output through audio out.



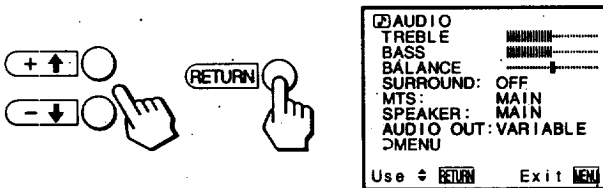
# Selecting stereo or bilingual programs

(MTS)

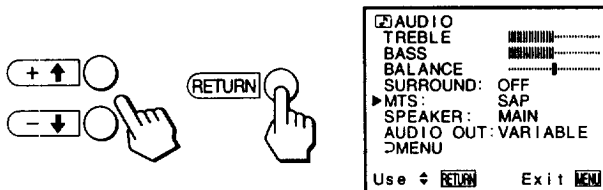
The Multichannel TV Sound (MTS) feature gives you the choice to enjoy stereo sound or Second Audio Programs (SAP) when available. The initial setting is stereo sound (MAIN).



- 1 Press **MENU**.
- 2 Press **+ ↑** or **- ↓** to select **AUDIO** and press **RETURN**.
- 3 Press **+ ↑** or **- ↓** to select **MTS** and press **RETURN**.



- 4 Press **+ ↑** or **- ↓** to select **MAIN, SAP or MONO** and press **RETURN**.



Choose	To
MAIN	Listen to stereo sound. The STEREO indicator on the projection TV lights up while a stereo broadcast is received.
SAP	Listen to bilingual programs. The sound of non-SAP programs will be muted when SAP is selected.
MONO	Reduce noise during stereo broadcasts.

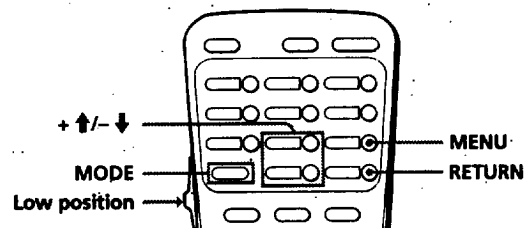
**Note**

• Stereo and SAP sounds are subject to program sources.

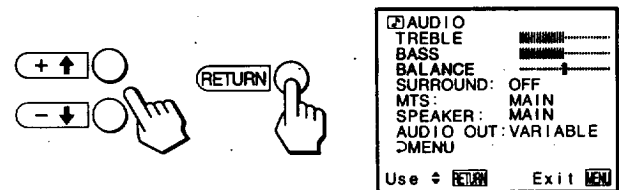
# Setting the speaker switch (SPEAKER)

You may switch off the projection TV speakers when, for example, you want to listen to the sound through a stereo system.

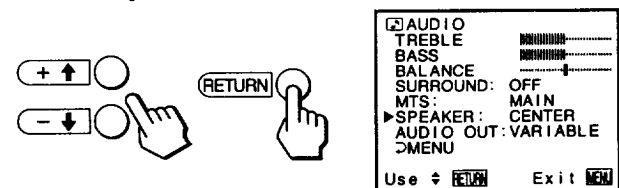
If you connect a Dolby Pro Logic-compatible amplifier to the CENTER SPEAKER IN terminals, you can use the projection TV speakers as center speakers. After making the connections (page 11) set SPEAKER to "CENTER."



- 1 Press **MENU**.
- 2 Press **+ ↑** or **- ↓** to select **AUDIO** and press **RETURN**.
- 3 Press **+ ↑** or **- ↓** to select **SPEAKER** and press **RETURN**.



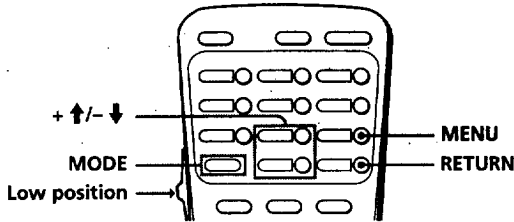
- 4 Press **+ ↑** or **- ↓** to select **MAIN, CENTER or OFF** and press **RETURN**.



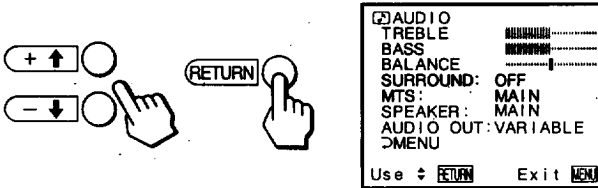
Choose	To
MAIN	Listen to the sound from the projection TV.
CENTER	Use the projection TV speakers as center speakers.
OFF	Cut off the projection TV speaker sound and listen to the projection TV's sound solely through the audio system speakers.

# Setting audio out (AUDIO OUT)

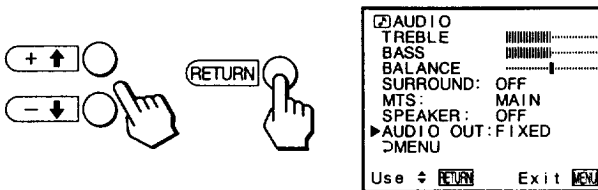
You can select audio out to variable or fixed when **SPEAKER** is set to **OFF** or **CENTER**.  
Audio out is variable when **SPEAKER** is set to **MAIN**.



- 1 Press **MENU**.
- 2 Press **+ ↑** or **- ↓** to select **AUDIO** and press **RETURN**.
- 3 Press **+ ↑** or **- ↓** to select **AUDIO OUT** and press **RETURN**.



- 4 Press **+ ↑** or **- ↓** to select **VARIABLE** or **FIXED** and press **RETURN**.



**VARIABLE:** Sound output varied according to the TV settings. You can adjust the volume, bass, treble and balance.

**FIXED:** Sound output is always fixed to a certain level. You cannot adjust the volume.

# Setting daylight saving time (DAYLIGHT SAVING)

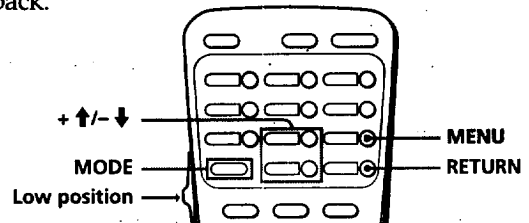
If your area uses daylight saving time, change **DAYLIGHT SAVING** setting depending on the season, before setting the current time.

## Daylight saving start

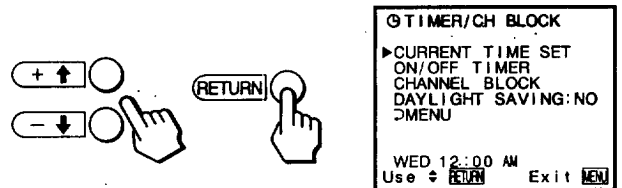
- After the first Sunday in April, set **DAYLIGHT SAVING** to **YES**. Current time (page 27), On/off Timer (page 28) and Channel Block (page 29) settings automatically move one hour ahead.

## Daylight saving end

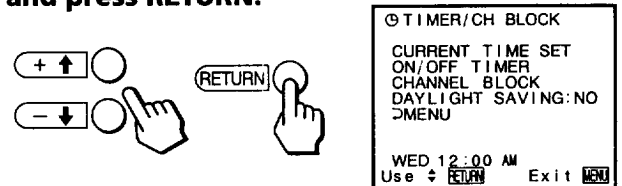
- After the last Sunday in October, set **DAYLIGHT SAVING** to **NO**. Current time, On/off Timer and Channel Block settings automatically move one hour back.



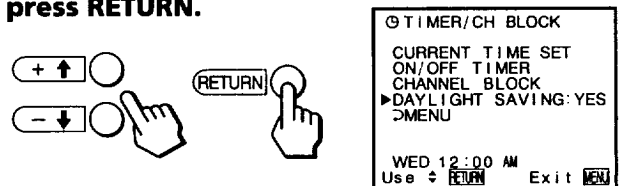
- 1 Press **MENU**.
- 2 Press **+ ↑** or **- ↓** to move the cursor (▶) to **TIMER/CH BLOCK** and press **RETURN**.



- 3 Press **+ ↑** or **- ↓** to select **DAYLIGHT SAVING** and press **RETURN**.



- 4 Press **+ ↑** or **- ↓** to select **YES** or **NO** and press **RETURN**.

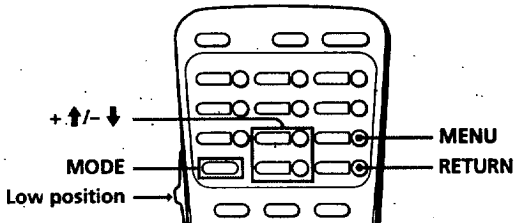


Choose	To
YES	Set for daylight saving start
NO	Set for daylight saving end

# Setting the clock

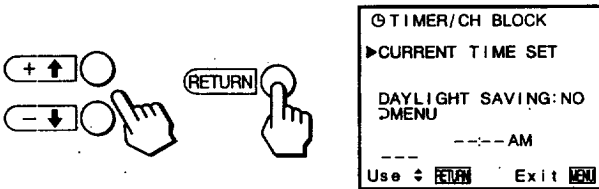
## (CURRENT TIME SET)

Set the current time before using On/off Timer (page 28) and Channel Block features (page 29). For example, set the clock to 3:15 p.m., Monday.



### 1 Press MENU.

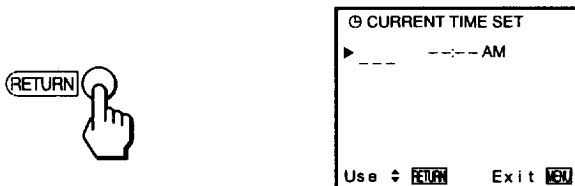
### 2 Press + ↑ or - ↓ to select TIMER/CH BLOCK and press RETURN.



If you need to set DAYLIGHT SAVING, follow the procedure on the previous page.

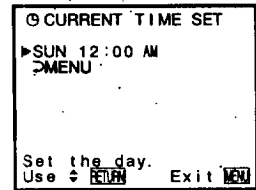
### 3 Make sure the cursor (▶) is beside CURRENT TIME SET, and press RETURN.

If the cursor is not beside CURRENT TIME SET, press + ↑ or - ↓ to move the cursor and press RETURN.

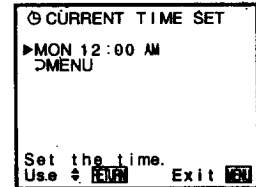


### 4 Set the current time.

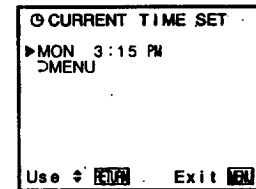
(1) Press RETURN to start setting the time.



(2) Press + ↑ or - ↓ to set the day and press RETURN.



(3) Using + ↑ or - ↓ and RETURN, set hour and minute in the same way as in step (2). When you press RETURN after setting the minute, the clock starts.



#### If you make a mistake while setting the time

Press RESET while the CURRENT TIME SET menu is displayed, then repeat step 4.

#### To display the current time

Press DISPLAY.

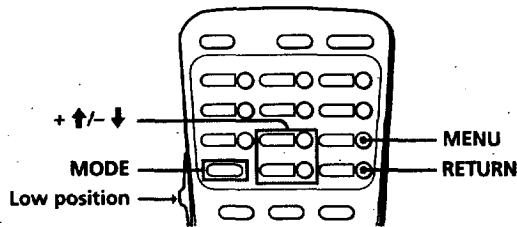
#### Note

- If you unplug the projection TV or a power interruption occurs, the clock will be erased. Reset the current time.

# Setting the timer to turn the projection TV on and off

## (ON/OFF TIMER)

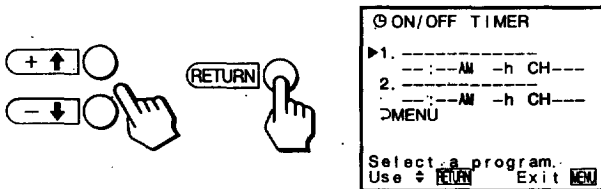
You can set the projection TV to turn on and off at the time you specify. Make sure the clock is set correctly. If it is not, set the clock first.



**1 Press MENU.**

**2 Press + ↑ or - ↓ to select TIMER/CH BLOCK and press RETURN.**

**3 Press + ↑ or - ↓ to select ON/OFF TIMER and press RETURN.**



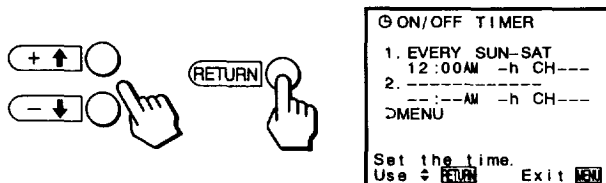
**4 Enter the ON/OFF TIMER setting.**

(1) Press + ↑ or - ↓ to select program 1 or 2 and press RETURN.

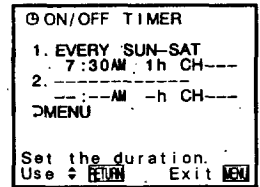
(2) Press + ↑ or - ↓ to set the days and press RETURN.

Each time you press + ↑ or - ↓, the days cycle as shown below.

EVERY SUN-SAT → EVERY MON-FRI →  
SUNDAY → MONDAY → ... → SATURDAY →  
EVERY SUNDAY → EVERY MONDAY →  
... → EVERY SATURDAY

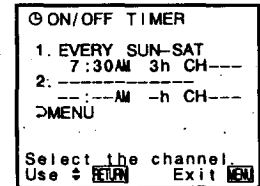


(3) Press + ↑ or - ↓ to set the time (hour then minute) that you want to turn on the projection TV and press RETURN.

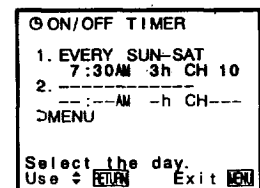


(4) Press + ↑ or - ↓ to set the hour duration and press RETURN.

You can set the hour duration by one hour up to a maximum of six hours.



(5) Press + ↑ or - ↓ to select the channel and press RETURN.



The TIMER/STAND BY indicator on the projection TV lights.

**5 To set the other program, press RETURN and repeat step 4.**

One minute before the projection TV switches to turn off, a message "TV will turn off." is displayed on the screen.

**To cancel the timer**

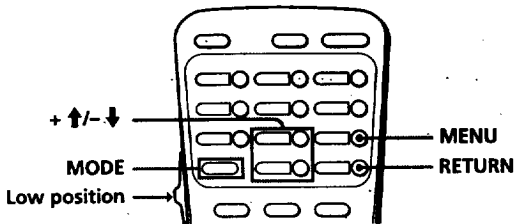
Press RESET on the remote commander.

**Note**

- If you unplug the projection TV or a power interruption occurs, ON/OFF TIMER settings will be erased. Reset the current time, then set the timer.

# Blocking out a channel (CHANNEL BLOCK)

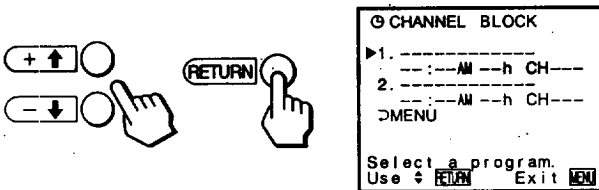
This feature allows you to prevent children from watching unsuitable programs. Make sure the clock is set correctly. If it is not, set the clock first (page 27).



**1 Press MENU.**

**2 Press + ↑ or - ↓ to select TIMER/CH BLOCK and press RETURN.**

**3 Press + ↑ or - ↓ to select CHANNEL BLOCK and press RETURN.**

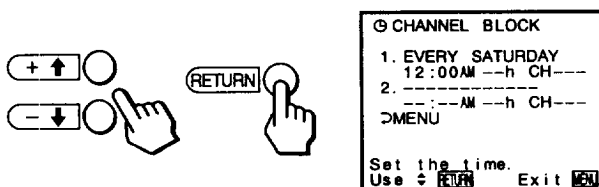


**4 Enter a CHANNEL BLOCK setting.**

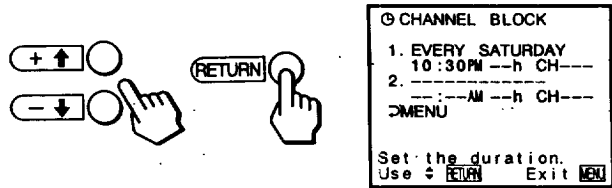
(1) Press + ↑ or - ↓ to select program 1 or 2 and press RETURN.

(2) Press + ↑ or - ↓ to set the days and press RETURN. Each time you press + ↑ or - ↓, the days cycle as shown below.

EVERY SUN-SAT → EVERY MON-FRI →  
SUNDAY → MONDAY → ... → SATURDAY →  
EVERY SUNDAY → EVERY MONDAY →  
... → EVERY SATURDAY

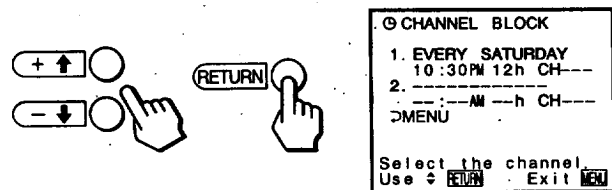


(3) Press + ↑ or - ↓ to set the time (hour then minute) that you want to start blocking the channel and press RETURN.

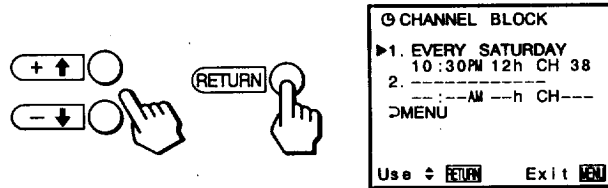


(4) Press + ↑ or - ↓ to select the hour duration you want to block and press RETURN.

Each time you press RETURN, the hour duration increases by one hour up to a maximum of 12 hours.



(5) Press + ↑ or - ↓ to select the channel and press RETURN.



If you select the blocked channel during the time you set, the message "BLOCKED" appears and the picture is blocked and the sound is muted.

## To cancel a CHANNEL BLOCK setting

Press RESET on the remote commander.

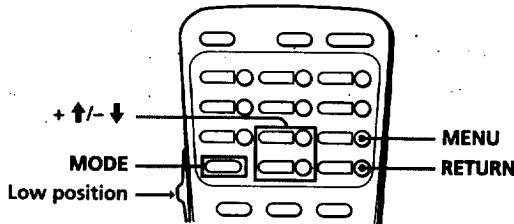
### Note

- If the CHANNEL BLOCK and ON/OFF TIMER settings are overlapped, the later time setting has priority over the other setting.

# Customizing the channel number buttons (CH CAPTION/GUIDE)

You can choose up to 12 channels, caption each channel, and assign a specific channel number button to each channel. This feature allows you to select your favorite channels easily by name. For example, you can name channel 20 "ESPN," and assign the channel number 4 button to it.

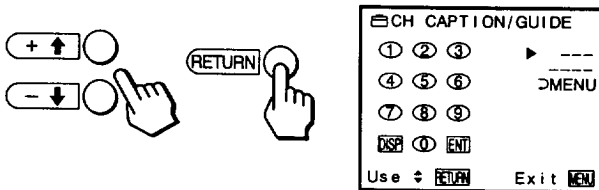
## Setting captions to favorite channels



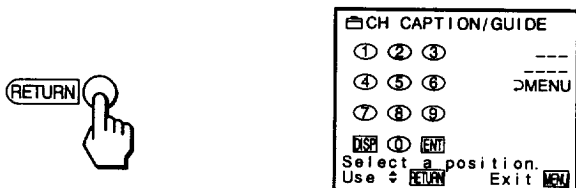
**1 Press MENU.**

**2 Press + ↑ or - ↓ to select SET UP and press RETURN.**

**3 Press + ↑ or - ↓ to select CH CAPTION/GUIDE and press RETURN.**

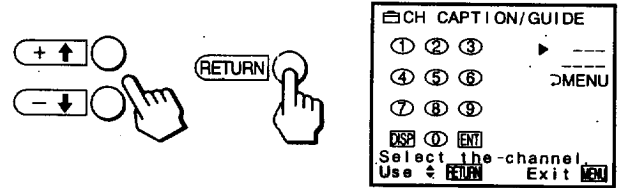


**4 Press RETURN again.**

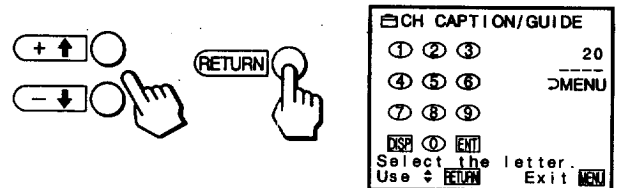


**5 Press + ↑ or - ↓ to select a channel guide number button and press RETURN.**

Each time you press + ↑ or - ↓, the channel positions change to red in turns. The channel number button you select will be the one you press to call up your favorite channel.



**6 Press + ↑ or - ↓ to select the channel that you want to caption and press RETURN.**

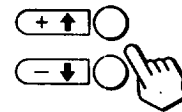


**7 Enter the letters or numbers (up to four) to caption the channel:**

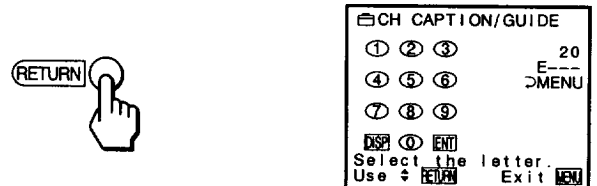
(1) Press + ↑ or - ↓ to select the first letter (number).

Each time you press + ↑ or - ↓, the letter (number) changes as shown below.

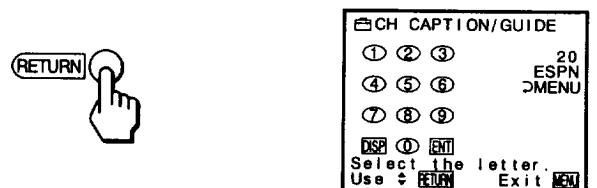
0→1→...→9→A→B→...→Z→&→/→→→\_(blank space)



(2) Press RETURN.



(3) Repeat steps (1) and (2) to select the remaining letters (numbers) and press RETURN.



**8 Repeat steps 4 to 7 to caption other channels.**

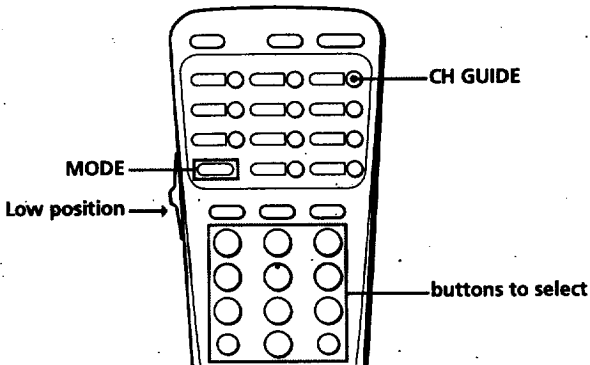
**To erase a caption**

Press RESET after step 4.

**Notes**

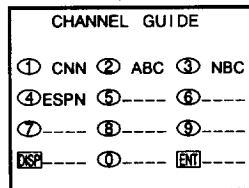
- The position number you already selected appears in yellow.
- If the CH CAPTION/GUIDE menu appears in black, the projection TV is set to a video input, and you cannot select CH CAPTION/GUIDE. Press TV so that a channel number appears.
- If more than 90 seconds elapse after you press a button, the menu disappears automatically.
- The channel caption/guide feature is available for the AUX input.

**Selecting a captioned channel**



**1 Press CH GUIDE.**

The CHANNEL GUIDE menu appears showing channel captions and the corresponding channel number buttons.



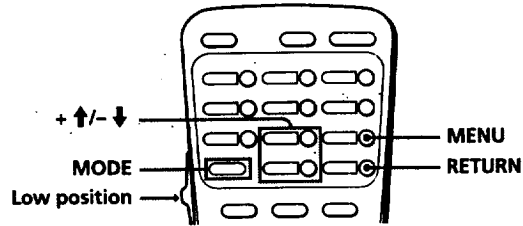
**2 Press a channel number button, the DISPLAY or ENTER button to select the channel you want.**

**To cancel the CHANNEL GUIDE menu**

Press CH GUIDE again.

**Setting video labels  
(VIDEO LABEL)**

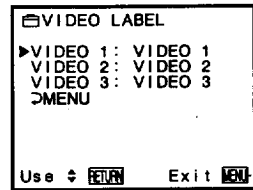
This feature allows you to label each input mode so that you can easily identify the connected equipment. For example, you can label VIDEO 1 IN as VHS.



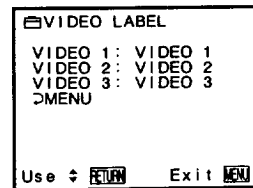
**1 Press MENU.**

**2 Press + ↑ or - ↓ to select SET UP and press RETURN.**

**3 Press + ↑ or - ↓ to select VIDEO LABEL and press RETURN.**

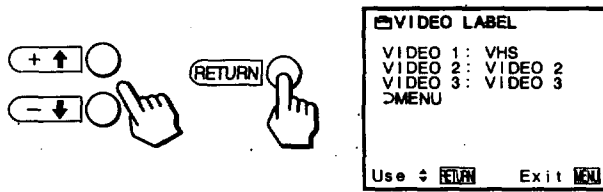


**4 Press + ↑ or - ↓ to select the input mode you want to label and press RETURN.**



(continued)

**5** Press + ↑ or - ↓ to select the label and press RETURN.



Each time you press + ↑ or - ↓, the label changes as shown below.

VIDEO 1  
VIDEO 1 → S-VIDEO → BETA → 8mm → VHS → LD → DSS

VIDEO 2  
VIDEO 2 → BETA → 8mm → VHS → LD → DSS

VIDEO 3  
VIDEO 3 → BETA → 8mm → VHS → LD → DSS

**6** Repeat steps 4 and 5 to label other input modes.

**Note**

- If more than 90 seconds elapse after you press a button, the menu disappears automatically.

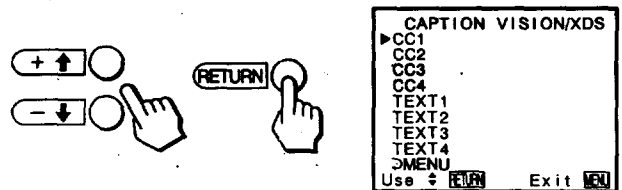
# Displaying Caption Vision

(CAPTION VISION/XDS)

Some programs are broadcast with Caption Vision. To display Caption Vision, select either CC1, CC2, CC3, CC4, TEXT1, TEXT2, TEXT3 or TEXT4 from the menu. CC1, CC2, CC3 or CC4 shows you a caption, that is a printed version of the dialog or sound effects of a program. (The mode should be set to CC1 for most programs.)

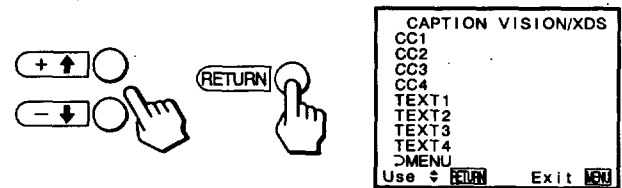
TEXT1, TEXT2, TEXT3 or TEXT4 shows you text, that is information presented using either half or the whole screen. It is not usually related to the program.

- 1** Press MENU.
- 2** Press + ↑ or - ↓ to select CAPTION VISION/XDS and press RETURN.



- 3** Press + ↑ or - ↓ to select the caption type and press RETURN.

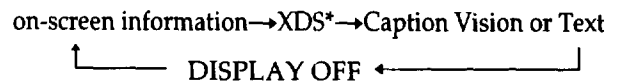
The selected caption type is colored green.



**To turn off the captions or text**

Press DISPLAY on the remote commander.

Each time you press DISPLAY, the display changes as follows:



“DISPLAY OFF” goes off after three seconds.

- \* Some programs are broadcast with XDS service which shows a network name, program name, program length, call letters and time in show data.

When you select XDS with the DISPLAY button, this information will be displayed on the screen if the broadcaster offers this service.

**Note**

- Captions may appear with a white box or another error instead of a certain word. Poor reception of TV programs can also cause errors in Closed Caption.



# Operating video equipment

You can operate a piece of video equipment that has an infrared remote sensor with the supplied remote commander. Before operating, set the manufacturer's code number.

## Setting the manufacturer's code

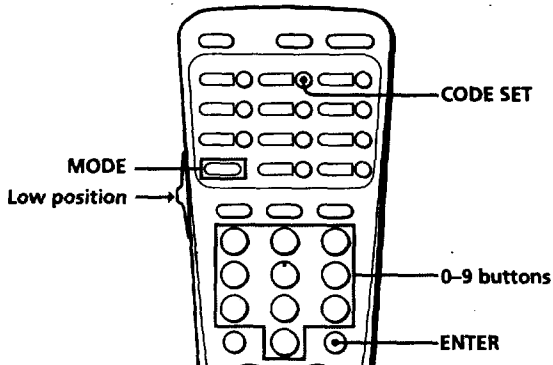
The following Sony video equipment is assigned to each position of the selector at its factory preset:

VTR 1 Beta, ED Beta VCR

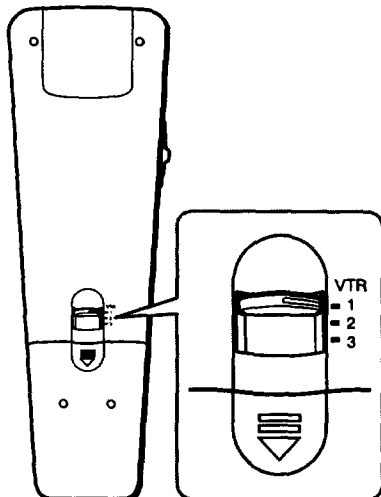
VTR 2 8 mm VCR

VTR 3 VHS VCR

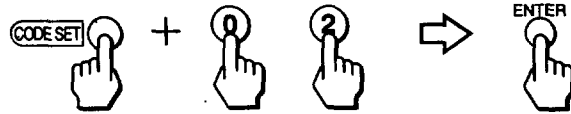
You can change the settings of each position.



**1** Set the VTR 1-2-3 selector to the position you want to set the code.



**2** While pressing CODE SET, press 0 - 9 to enter the manufacturer's code number (see the chart in the right column) and press ENTER. For example, to operate a Sony 8 mm VCR, press 0, 2 and ENTER.



### Note

- To use another manufacturer's equipment besides a Sony VCR set the selector to a position not being used for your Sony video equipment.

## VCR manufacturer code numbers

Manufacturer	Code number
SONY	01, 02, 03, 04
CANON	05
EMERSON	22, 30, 33
FISHER	10, 11, 12, 15
FUNAI	29
GENERAL ELECTRIC	05, 08
GOLDSTAR	25
HITACHI	07, 08, 36
JVC	16, 35
MAGNAVOX	05, 06, 09
MITSUBISHI	18, 19, 26, 27
MULTITECH	29
NEC	16, 23, 31
PANASONIC	05, 06, 37
PHILCO	05, 06
PHILIPS	05, 06, 09
QUASAR	05, 06
RCA	07, 08
SAMSUNG	24, 32
SANYO	11, 15
SCOTT	21
SHARP	13, 14
SHINTOM	34
SYLVANIA	05, 06, 09
SYMPHONIC	29
TEKNIKA	28, 29
TOSHIBA	20, 21
TOTE VISION	25
ZENITH	17

(continued)

## MDP manufacturer code numbers

Manufacturer	Code number
SONY	04
KENWOOD	58
MAGNAVOX	52
MARANZ	54
MITSUBISHI	51
PANASONIC	55
PHILIPS	52
PIONEER	51
RCA	51
SANYO	57
SHARP	56
YAMAHA	53

### Notes

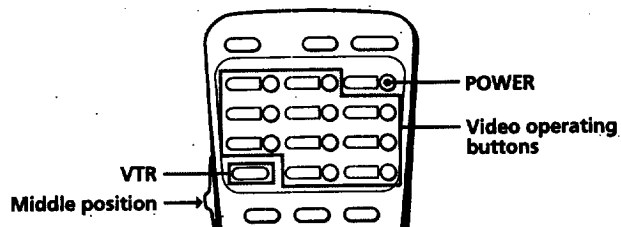
- If more than one code number is listed, try entering them one by one, until you come to the correct code for your equipment.
- In some rare cases, you may not be able to operate your non-Sony video equipment with this remote commander. This is because your equipment may use a code that is not provided with this remote commander. In this case, please use the equipment's own remote control unit.
- The code numbers for Sony equipment are assigned at the factory as follows:
 

Beta, ED Beta VCRs	01
8 mm VCR	02
VHS VCR	03
MDP	04

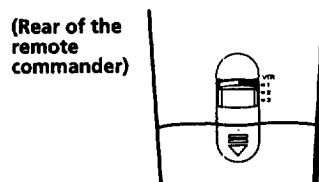
### Caution

When you remove a battery from the remote commander, the code may revert to the factory preset. Reset the codes each time you replace the battery, if necessary.

## Operating video equipment



Set the selector VTR 1-2-3 according to the video equipment you want to operate.



Use the video operating buttons on the remote commander to operate the video equipment.

Operating a VCR	Buttons on the remote commander
To turn on or off	Press POWER
To change channels	Press CH +/-
To record	Press ● and REC simultaneously
To play	Press ►
To stop	Press ■
To fast forward	Press ►►
To rewind the tape	Press ◄◄
To pause	Press
To search the picture forward and backward	Press ►► or ◄◄ during playback

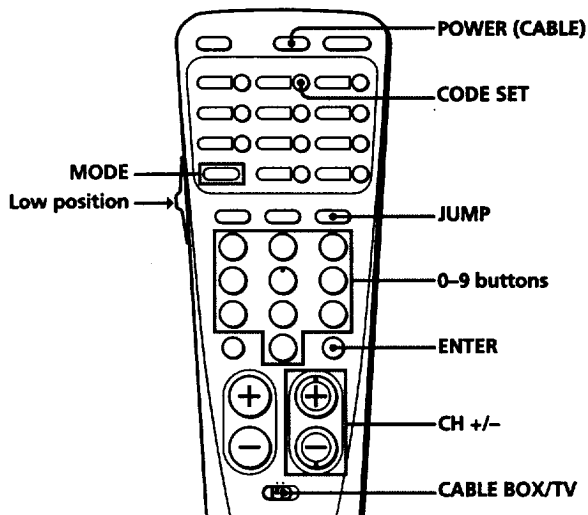
Operating a laser-disc player	Buttons on the remote commander
To play	Press ►
To stop	Press ■
To pause	Press    To resume normal playback, press again.
To search the picture forward and backward	Keep pressing ►► or ◄◄ during playback To resume normal playback, release the button.
To search the chapter forward and backward	Press CH +/-

### Note

- If the video equipment does not have a certain function, the corresponding button on this remote commander will not operate.

# Operating a cable box

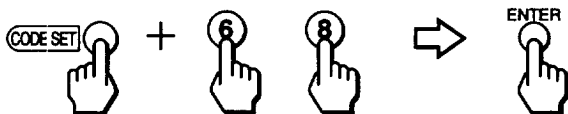
You can operate a connected cable box with the supplied remote commander. Before operating, set the manufacturer's code number.



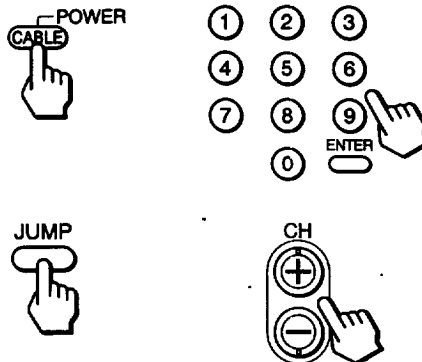
**1** Set the **CABLE BOX/TV** selector to **CABLE BOX**.



**2** While pressing **CODE SET**, press **0 - 9** to enter the manufacturer's code number (see the chart below) and press **ENTER**. For example, to operate a Zenith cable box, press **6** and **8** and press **ENTER**.



**3** Use **POWER (CABLE)** and the projection TV control buttons (**0 - 9**, **ENTER**, **JUMP** and **CH +/-**) to operate the cable box.



## To operate the projection TV

Set the **CABLE BOX/TV** selector to **TV**. Then use the projection TV control buttons to control the projection TV.

## For more details on operating the cable box

Refer to the operating instructions that come with the cable box.

## Manufacturers and code numbers (cable box)

Manufacturer	Code number
JERROLD	60, 61, 62, 63, 64, 65, 73
PIONEER	69, 70
SCIENTIFIC ATLANTA	66, 67
TOCOM	71, 72
ZENITH	68

## Notes

- If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some rare cases, your equipment may use a code that is not provided with this remote commander and you may not be able to operate your cable box with the supplied remote commander. In this case, use the equipment's own remote control unit.
- When you remove a battery from the remote commander, the code may be erased. Reset the code each time you replace the battery, if necessary.

# Troubleshooting

After trying the methods below, if the problem persists, contact your nearest Sony dealer.

## No picture (screen not lit), no sound

- ➔ Make sure the power cord is connected securely.
- ➔ Check to see if the TV/VIDEO setting is correct: when watching TV, set to TV, and when watching video tapes, set to VIDEO. (page 18)
- ➔ Make sure the CABLE BOX/TV selector is in the correct position. (page 17)
- ➔ Try another channel. It could be station trouble.

## Poor or no picture (screen lit), good sound

- ➔ Adjust PICTURE in the VIDEO menu. (page 21)
- ➔ Adjust BRIGHTNESS in the VIDEO menu. (page 21)
- ➔ Adjust the convergence. (page 15)
- ➔ Check antenna/cable connections. (page 6)

## Good picture, no sound

- ➔ Press MUTING so that "MUTING" disappears from the screen. (page 17)
- ➔ Check the MTS setting in the AUDIO menu. (page 25)
- ➔ Make sure SPEAKER is set to MAIN in the AUDIO menu. (page 25)

## No color

- ➔ Adjust COLOR in the VIDEO menu. (page 21)
- ➔ Confirm that black and white program is not being broadcast.

## Only snow and noise appear on the screen

- ➔ Check the CABLE setting in the SET UP menu. (page 15)
- ➔ Check the antenna/cable connections. (page 6)
- ➔ Make sure the channel is broadcasting programs.

## Dotted lines or stripes

- ➔ Adjust the antenna.
- ➔ Move the projection TV away from noise sources such as cars, neon signs, and hair-dryers.

## Double images or ghosts

- ➔ Use a highly directional outdoor antenna or a cable (when the problem is caused by reflections from nearby mountains or tall buildings.)

## Cannot operate menu

- ➔ If the item you want to choose appears in black, you cannot select it. Press TV/VIDEO correctly.
- ➔ Check the CABLE setting in the SET UP menu. (page 15)

## Cannot receive upper channels (UHF) when using an antenna

- ➔ Check if CABLE is OFF in the SET UP menu. (page 15)
- ➔ Use AUTO PROGRAM to add receivable channels that are not presently in the memory. (page 16)

## Cannot receive any channels when using cable TV

- ➔ Check if CABLE is ON in the SET UP menu. (page 15)
- ➔ Use AUTO PROGRAM to add receivable channels that are not presently in the memory. (pages 16)

## Remote commander does not operate

- ➔ Battery could be weak. Replace the battery. (page 12)
- ➔ Make sure the projection TV's power cord is connected securely to wall outlet.
- ➔ Set the CABLE BOX/TV selector to TV when operating your projection TV.
- ➔ Are fluorescent lights too close to the projection TV? Move lights at least 3 – 4 feet away from the projection TV.

## Commander's power, channel up/down, channel buttons do not function

- ➔ Set the CABLE BOX/TV selector to the correct position. (page 35)

## Cannot gain enough volume when using a cable box

- ➔ Increase the volume at the cable box. Then set the CABLE BOX/TV selector to TV and adjust the TV's volume. (page 35)

# Specifications

<b>Projection system</b>	3 picture tubes, 3 lenses, horizontal in-line system
<b>Picture tube</b>	7 inch high-brightness monochrome tubes (6.3 raster size), with optical coupling and liquidcooling system
<b>Projection lenses</b>	High performance, large-diameter hybrid lens F1.0
<b>Screen size (measured diagonally)</b>	
	KP-46V25    46 inches
	KP-53V25    53 inches
	KP-61V25    61 inches
<b>Screen brightness</b>	
	KP-46V25    1500 cd/m <sup>2</sup>
	KP-53V25    1200 cd/m <sup>2</sup>
	KP-61V25    1000 cd/m <sup>2</sup>
<b>Television system</b>	American TV standards
<b>Channel coverage</b>	VHF: 2-13/UHF: 14 -69/ CATV: 1 - 125
<b>Antenna</b>	75 ohm external antenna terminal for VHF/UHF
<b>Inputs/output</b>	VIDEO IN 1 S VIDEO IN (4-pin mini DIN): Y: 1 Vp-p, 75-ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal), 75 ohms VIDEO (phono jack): 1 Vp-p, 75-ohms unbalanced, sync negative AUDIO (phono jacks): 500 mVrms (100% modulation) Impedance : 47 kilohms VIDEO INPUT 2 and VIDEO IN 3 VIDEO (phono jacks): 1 Vp-p, 75-ohms unbalanced, sync negative AUDIO (phono jacks): 500 mVrms (100% modulation) Impedance: 47 kilohms

## VIDEO OUT 3

VIDEO (phono jack): 1 Vp-p, 75 ohms unbalanced, sync negative

AUDIO (phono jack):  
500 mVrms  
(100% modulation),  
Impedance: 10 kilohms

## MONITOR OUT

VIDEO (phono jack): 1 Vp-p, 75 ohms unbalanced, sync negative

AUDIO (phono jacks):  
500mVrms (100% modulation),  
Impedance: 10 kilohms

AUDIO (VAR/FIX) OUT (phono jacks):  
900 mVrms (100% modulation)  
Impedance: 5 kilohms

## Speaker

Full range speaker  
100 mm (3.9 inches) diameter

## Speaker output

10 W × 2

## Power requirement

KP-46V25/53V25/61V25	120 V AC, 60 Hz
KP-53V25C	220 V AC, 50/60 Hz

## Power consumption

Max. 310 W  
Average: 240 W  
Standby mode: 7 W

	Dimensions(W/H/D)	Mass
KP-46V25	1,066 × 1,336 × 698 mm (42 × 52 <sup>5</sup> / <sub>8</sub> × 27 <sup>1</sup> / <sub>2</sub> inches)	88 kg (193 lbs 10 oz)
KP-53V25	1,218 × 1,442 × 698 mm (48 × 56 <sup>3</sup> / <sub>4</sub> × 27 <sup>1</sup> / <sub>2</sub> inches)	94 kg (207 lbs 1 oz)
KP-61V25	1,338 × 1,619 × 774 mm (52 <sup>3</sup> / <sub>4</sub> × 63 <sup>3</sup> / <sub>4</sub> × 30 <sup>1</sup> / <sub>2</sub> inches)	146 kg (321 lbs 7 oz)

## Supplied accessories

Remote commander RM-Y131 (1)  
Size AA (R6) battery (1)

## Optional accessories

U/V mixer EAC-66  
Connecting cables RK-74A,  
VMC-810S/820S, YC-15V/30V,  
VMC-720M  
High-contrast protective screen  
SCN-46X1 (For KP-46V25)  
SCN-53X1 (For KP-53V25)

Design and specifications are subject to change without notice.

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