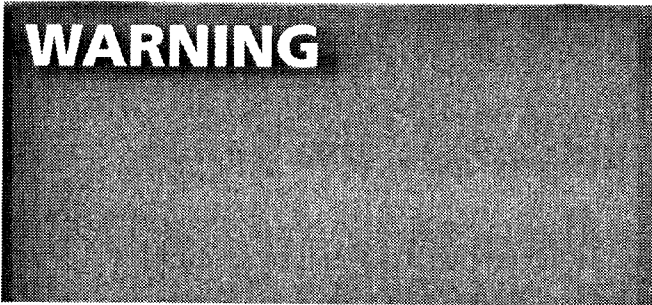# SONY

Color Rear Video Projector

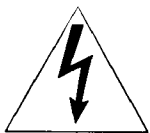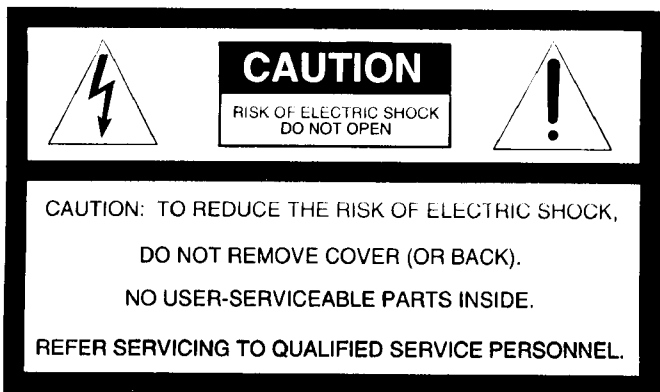Operating Instructions

KP-46S55
KP-53S55

WARNING

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

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,

DO NOT REMOVE COVER (OR BACK).

NO USER-SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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 imprintd onto the screen. These types of imprints are not covered by your warranty because they are the result of misuse.

Note on Closed Caption
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 10.

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 mild detergent solution. 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.

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. _____

Table of contents

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:

- 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 two models. 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
- Operate the projection TV only on 120 V AC.
- 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."

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.
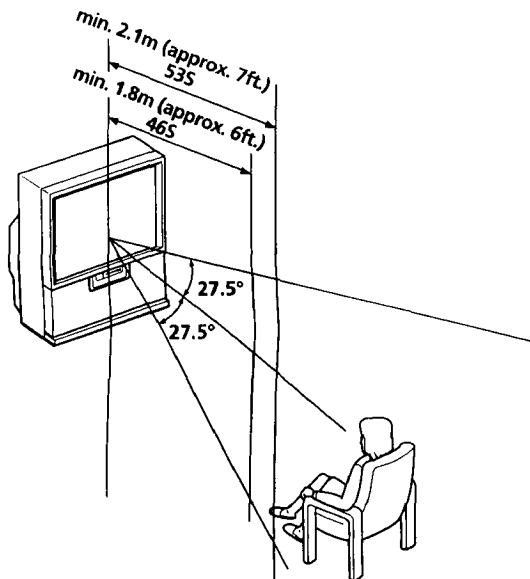
Step 1: Installing the projection TV

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

Optimum viewing area (Horizontal)
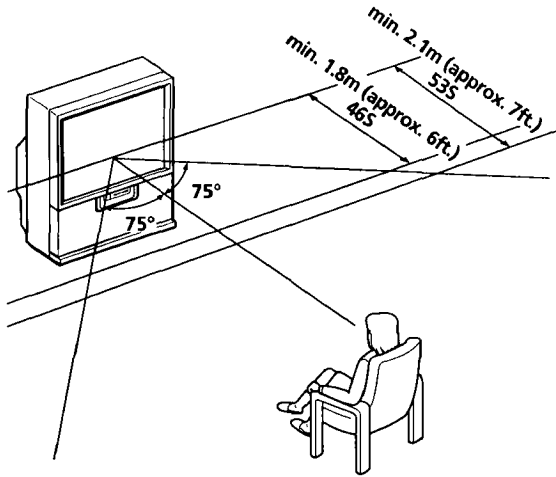
Optimum viewing area (Vertical)
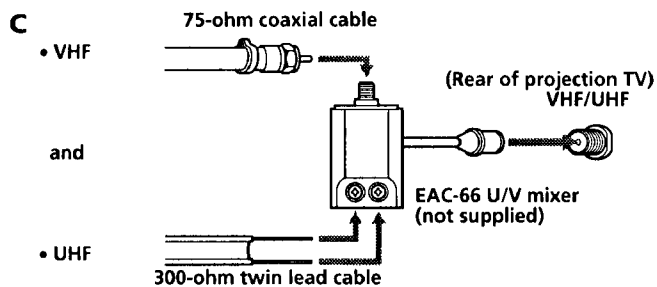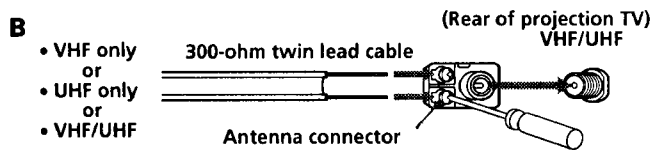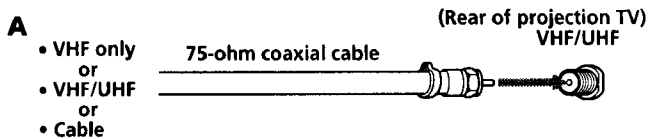

Preparing for your projection TV

Before you use your projection TV, adjust convergence. For the procedure, see "Step 4: Adjusting convergence (CONVERGENCE)" on page 10.

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.

A
- VHF only
  or
- VHF/UHF
  or
- Cable

75-ohm coaxial cable

(Rear of projection TV)
VHF/UHF

B
- VHF only
  or
- UHF only
  or
- VHF/UHF

300-ohm twin lead cable

Antenna connector

(Rear of projection TV)
VHF/UHF

C
- VHF

and

- UHF

75-ohm coaxial cable

(Rear of projection TV)
VHF/UHF

EAC-66 U/V mixer
(not supplied)

300-ohm twin lead cable

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).
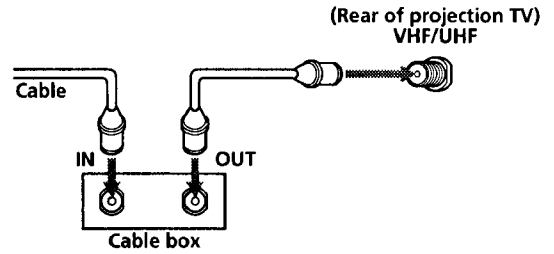
Connecting an antenna/cable TV system without a VCR

To cable or antenna

Cable

(Rear of projection TV)
VHF/UHF
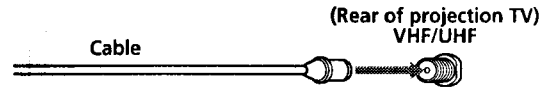
To cable box
If your cable company requires you to connect a cable box, make the connection as follows:

(Rear of projection TV)
VHF/UHF

Cable

IN   OUT

Cable box

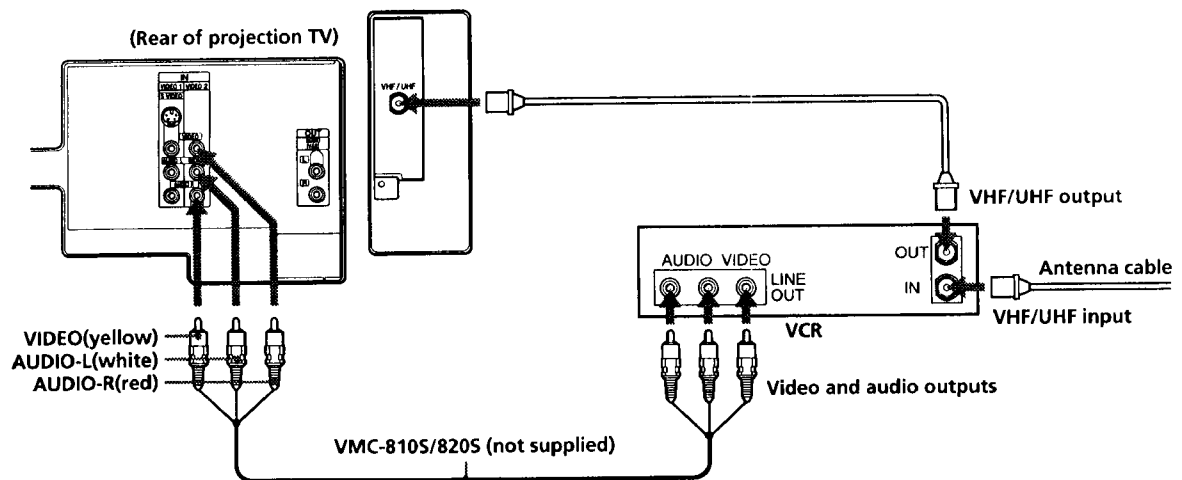## Connecting an antenna/cable TV system with a VCR

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
- Watch two TV programs at one time using a window
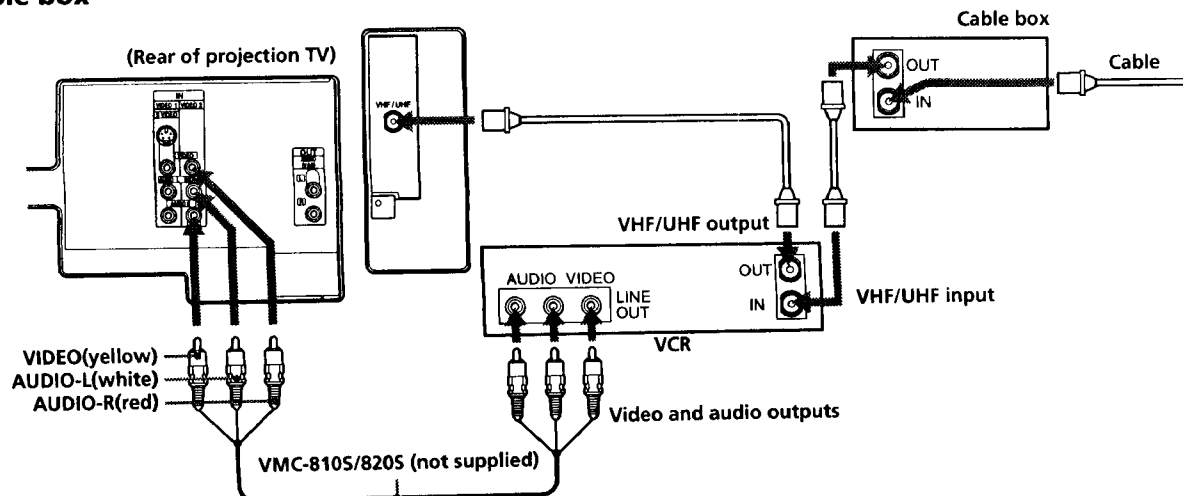 picture (Picture-in-Picture)

To a conventional VCR

Without a cable box

(Rear of projection TV)

VHF/UHF output

Antenna cable

VHF/UHF input

VIDEO(yellow)
AUDIO-L(white)
AUDIO-R(red)

VCR

Video and audio outputs

VMC-810S/820S (not supplied)

Note
- To connect a monaural VCR, connect the audio output of the
  VCR to AUDIO-L (mono) of VIDEO 1/2 IN on the projection
  TV.

With a cable box

Cable box

(Rear of projection TV)

Cable

VHF/UHF output

VHF/UHF input

VIDEO(yellow)
AUDIO-L(white)
AUDIO-R(red)

VCR

Video and audio outputs

VMC-810S/820S (not supplied)
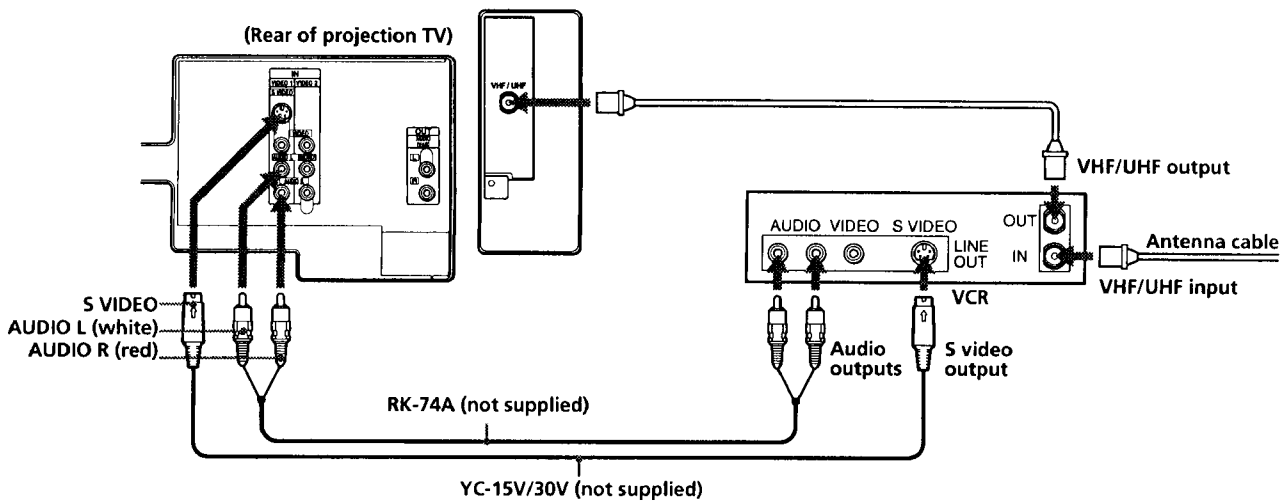
To an S video equipped VCR

If your VCR has an S video output jack, make the connection as follows and then set S-VIDEO to ON on your projection TV. It is set to ON at the factory.
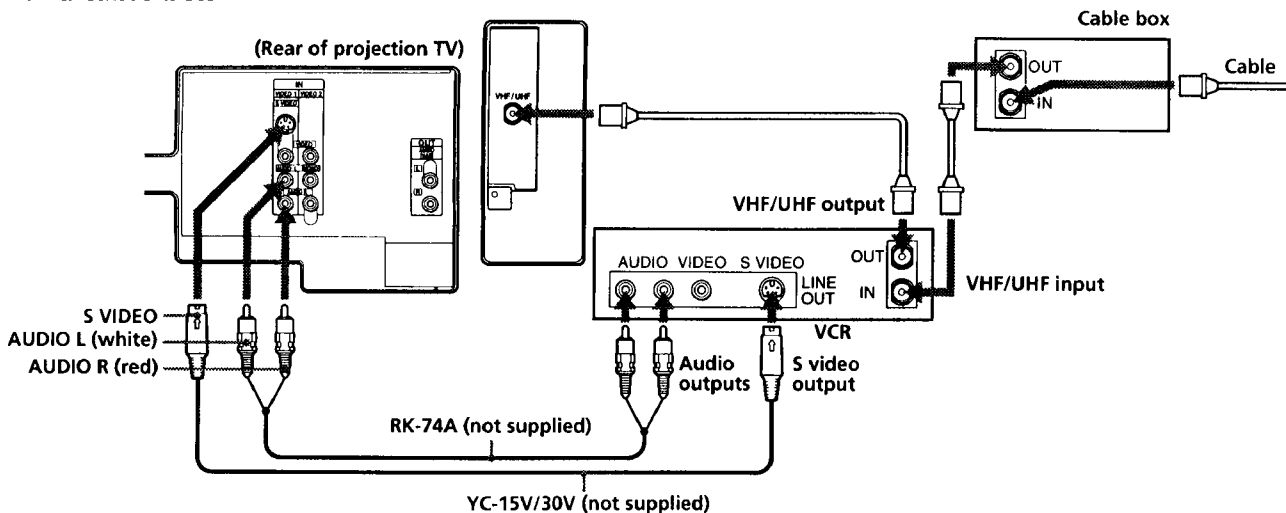
Without a cable box

(Rear of projection TV)

VHF/UHF output

AUDIO VIDEO S VIDEO OUT
LINE OUT
IN
VCR

Antenna cable

VHF/UHF input

S VIDEO
AUDIO L (white)
AUDIO R (red)

Audio outputs
S video output

RK-74A (not supplied)

YC-15V/30V (not supplied)

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

Cable box

(Rear of projection TV)

OUT
IN
Cable

VHF/UHF output

AUDIO VIDEO S VIDEO OUT
LINE OUT
IN
VCR

VHF/UHF input

S VIDEO
AUDIO L (white)
AUDIO R (red)

Audio outputs
S video output

RK-74A (not supplied)

YC-15V/30V (not supplied)

Setting S video on or off

1 Press MENU.

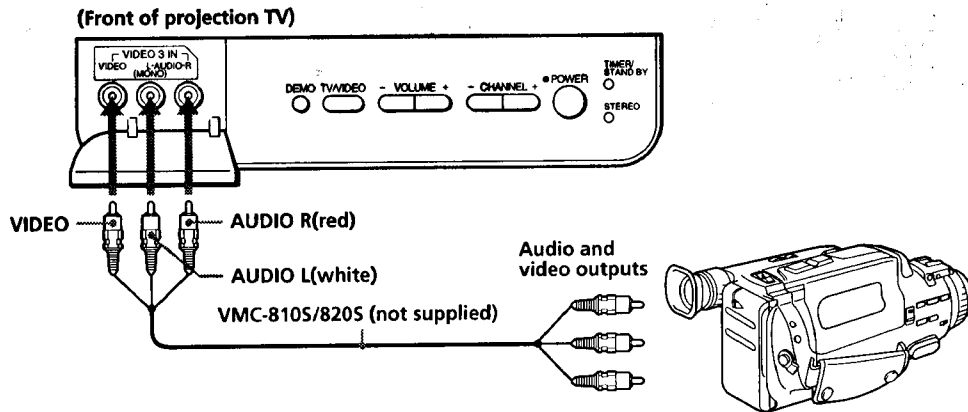**2 Press + △ or – ▽ to select MODE SET and press RETURN.**

Notes

• If S VIDEO appears in black, set a video input to VIDEO 1.
• If you set S VIDEO to ON, the TV automatically receive S video signals whenever a VCR with S video is connected.

3 Make sure the cursor (►) is beside S-VIDEO and press RETURN.

If the cursor is not beside S-VIDEO, press + △ or – ▽ to move the cursor and press RETURN.

4 Press + △ or – ▽ to select ON or OFF and press RETURN.

Connecting a camcorder

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

(Front of projection TV)

VIDEO

AUDIO R(red)

AUDIO L(white)
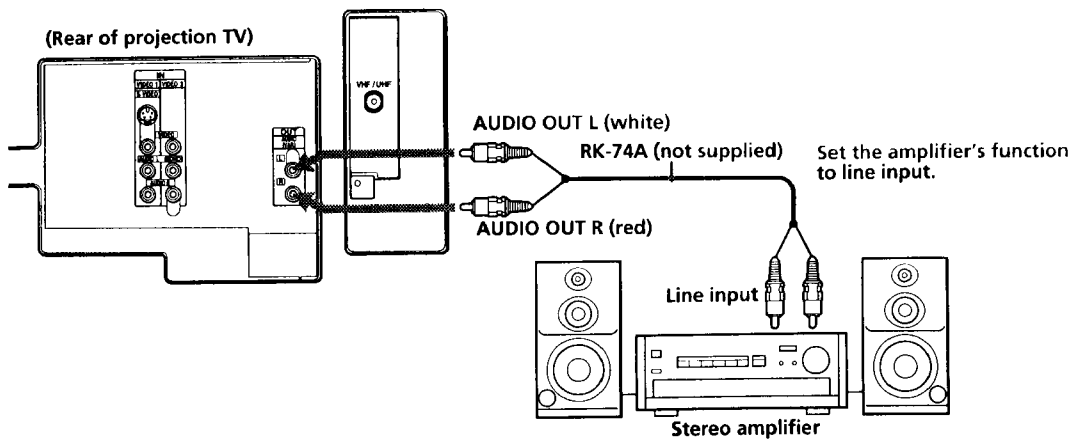
VMC-810S/820S (not supplied)

Audio and video outputs

Note
* To connect a monaural camcorder, connect the audio output of the camcorder to AUDIO-L (mono) of VIDEO 3 IN on the projection TV.

Connecting an audio system

When connecting audio equipment, see page **23** for more information.

(Rear of projection TV)

AUDIO OUT L (white)

RK-74A (not supplied)

Set the amplifier's function to line input.

AUDIO OUT R (red)

Line input

Stereo amplifier

Note
* You can adjust the bass, treble and balance, or select surround or an MTS (Multichannel TV Sound) mode with the supplied remote commander.

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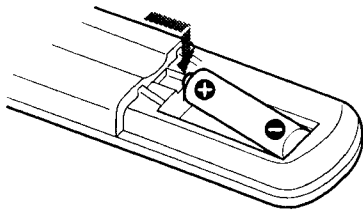
Notes
- With normal use, the battery should last for approximately six months.
- If you do not use the remote commander for an extended period of time, remove the battery to avoid possible damage from battery leakage.
- Do not handle the remote commander roughly. Do not drop it, step on it or let it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

Step 4: 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.
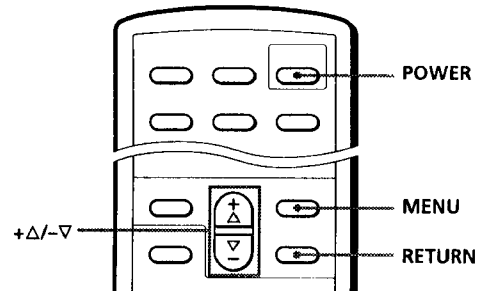
POWER
+Δ/–∇
MENU
RETURN

1 Press POWER to turn on the projection TV.

The TIMER/STAND BY indicator flashes until the picture appears.

POWER

**2 Press MENU.**

The main menu appears.

MENU

```
►🗓PROG PALETTE
 🎚MODE SET
 🕐TIME
 🖥SET UP
 📖ENGLISH
 ⊞CONVERGENCE
SELECT ♦   RETURN   EXIT MENU
```
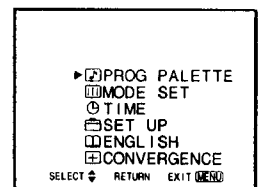
3 Press + Δ or – ∇ to move the cursor (►) to CONVERGENCE and press RETURN.

The CONVERGENCE adjustment screen appears.

RETURN

```
⊞CONVERGENCE
R
G
B
B
G
R
SELECT ♦   RETURN   EXIT MENU
```
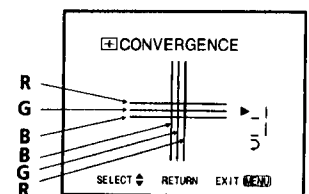
R=Red
G=Green
B=Blue

4 Press + △ or – ▽ to move the cursor (▶) to the symbol showing the line you want to adjust, and press RETURN.

RETURN

⊞CONVERGENCE

SELECT ◆ RETURN EXIT **MENU**
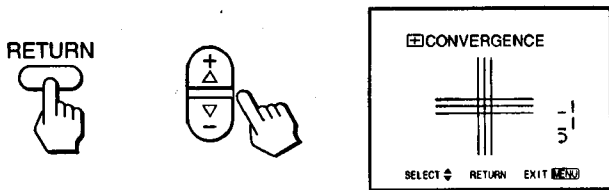
| : Red vertical line (left/right adjustment)
—: Red horizontal line (up/down adjustment)
| : Blue vertical line (left/right adjustment)
—: Blue horizontal line (up/down adjustment)

5 Press + △ or – ▽ to move the line until it converges with the center green line, and press RETURN.

RETURN

⊞CONVERGENCE

R
G
B
B
G + R

SELECT ◆ RETURN EXIT **MENU**
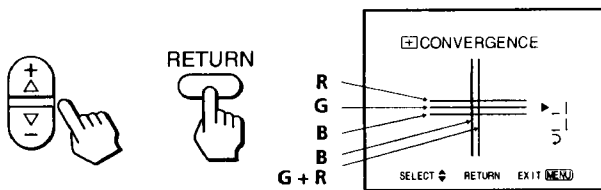
To move up/right, press + △.
To move down/left, press – ▽.

6 Repeat steps 4 and 5 to adjust the other lines until all three lines converge and are seen as a white cross.

⊞CONVERGENCE

white cross

SELECT ◆ RETURN EXIT **MENU**
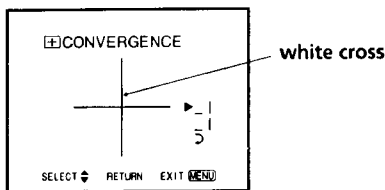
7 Press MENU to return to the original screen.

MENU

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

Step 5: Setting cable TV on or off

If you have connected the projection TV to a cable TV system, you should set the cable connection on or off. Set CABLE to ON, the factory setting, to preset or watch cable TV channels. Set to OFF to preset or watch VHF/UHF channels.
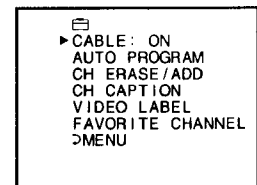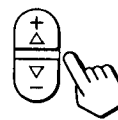
+△/–▽

MENU

RETURN

1 Press MENU.
The main menu appears.

MENU

▶☑PROG PALETTE
⊞MODE SET
⊙TIME
🗁SET UP
⊞ENGLISH
⊞CONVERGENCE
SELECT ◆ RETURN EXIT **MENU**
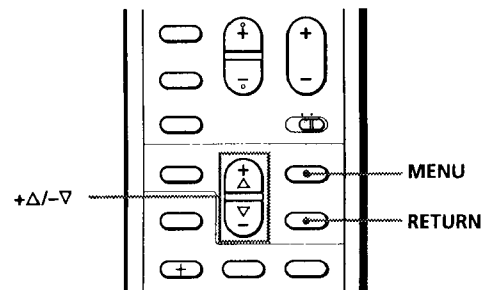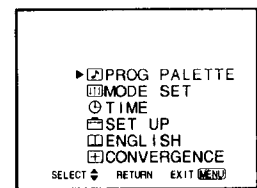
2 Press + △ or – ▽ to move the cursor (▶) to SET UP and press RETURN.
The SET UP menu appears.

RETURN

🗁
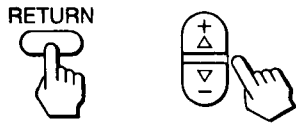▶CABLE: ON
AUTO PROGRAM
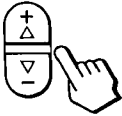CH ERASE/ADD
CH CAPTION
VIDEO LABEL
FAVORITE CHANNEL
⊃MENU

3 Set CABLE to ON or OFF:

(1) Make sure the cursor (▶) is beside CABLE and press RETURN.
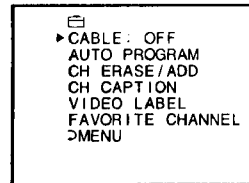If the cursor is not beside CABLE, press + △ or – ▽ to move the cursor and press RETURN.

RETURN

(2) Press + △ or – ▽ to select ON or OFF.

(3) Press RETURN.

RETURN

```
□
▶CABLE: OFF
 AUTO PROGRAM
 CH ERASE/ADD
 CH CAPTION
 VIDEO LABEL
 FAVORITE CHANNEL
 ⊃MENU
```

4 Press MENU to return to the original screen.

MENU

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.

Step 6: Presetting channels

You can preset TV channels easily: first store all the receivable VHF, UHF or cable TV channels automatically following the procedure below, then erase unnecessary channels or add the channels you want.
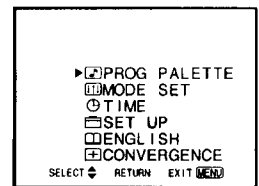
TV

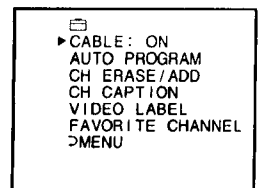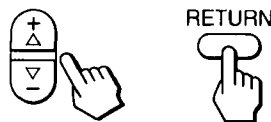MENU

RETURN

+△/–▽
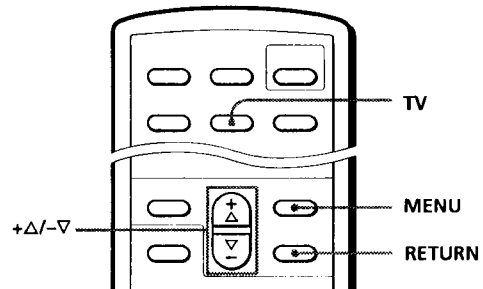
Presetting all the receivable channels

Before you begin, set the cable TV on or off according to the channels you want to preset. (page 11)

1 Press MENU.

The main menu appears.

MENU

```
▶⊡PROG PALETTE
 ⊞MODE SET
 ⊕TIME
 ⊟SET UP
 ⊞ENGLISH
 ⊞CONVERGENCE
SELECT⬍  RETURN  EXIT MENU
```

2 Press + △ or – ▽ to move the cursor (▶) to SET UP and press RETURN.

RETURN

```
□
▶CABLE: ON
 AUTO PROGRAM
 CH ERASE/ADD
 CH CAPTION
 VIDEO LABEL
 FAVORITE CHANNEL
 ⊃MENU
```

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.

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 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.

Erasing or adding channels

1 Press MENU.

2 Press + △ or –▽ to select SET UP and press RETURN.

3 Press + △ or – ▽ to select CH ERASE/ADD and press RETURN.

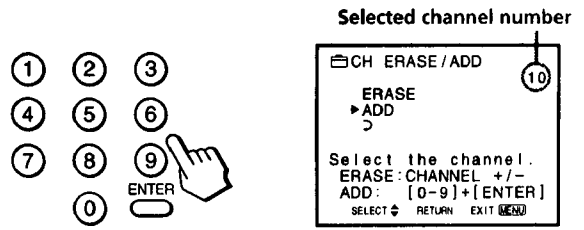**4** Erase and/or add the channel you want:

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.
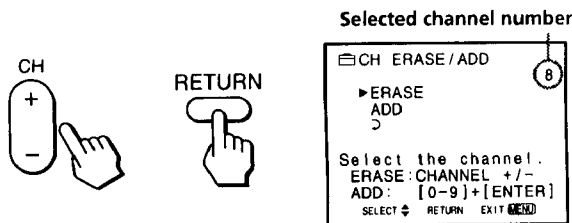
Selected channel number

(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.

Selected channel number

(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.

Note
- 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.
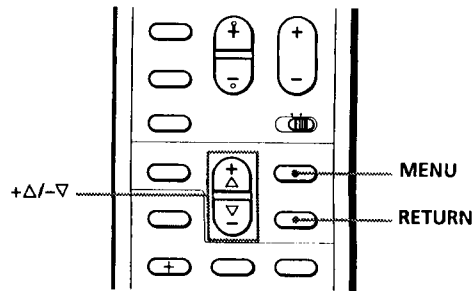
Changing the menu language

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

+Δ/-∇ .... MENU
RETURN

1 Press MENU.

The main menu appears.

MENU

```
►⎘PROG PALETTE
 ⊞MODE SET
 ⊕TIME
 🗁SET UP
 ⊞ENGLISH
 ⊞CONVERGENCE
SELECT ◆  RETURN  EXIT MENU
```
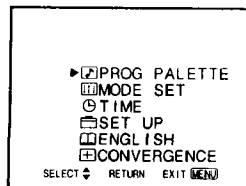
2 Press + Δ or – ∇ to move the cursor (►) to ENGLISH and press RETURN.

RETURN

```
 ⎘PROG PALETTE
 ⊞MODE SET
 ⊕TIME
 🗁SET UP
 ⊞ENGLISH
 ⊞CONVERGENCE
SELECT ◆  RETURN  EXIT MENU
```
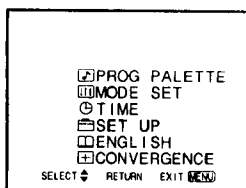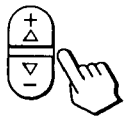
3 Press + Δ or – ∇ to select the language and press RETURN.

The menu in selected language appears.

RETURN

```
 ⎘SELECCION A/V
 ⊞AJUSTE DE MODO
 ⊕HORA
 🗁AJUSTES
►⊞ESPAÑOL
 ⊞CONVERGENCE
SELECT ◆  RETURN  EXIT MENU
```

4 Press MENU to return to the original screen.

MENU

Note
• Even when you select Spanish or French language, certain parts of the menus remain in English.
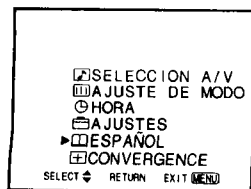
Watching TV programs

Check that the CABLE BOX/TV selector is set to TV.
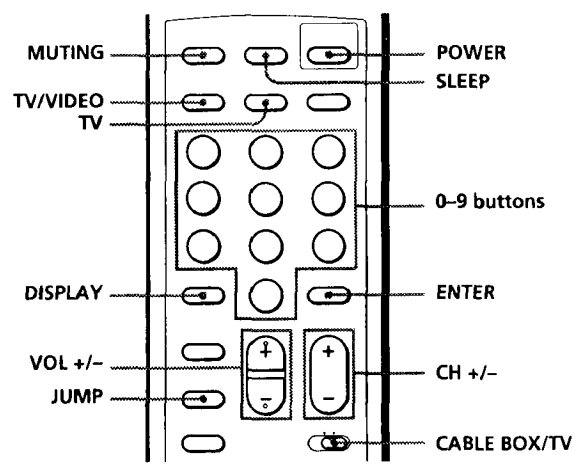
MUTING
TV/VIDEO
TV
0-9 buttons
DISPLAY
VOL +/-
JUMP
POWER
SLEEP
ENTER
CH +/-
CABLE BOX/TV

1 Press POWER to turn on the projection TV.

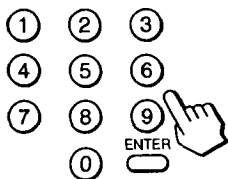The TIMER/STAND BY indicator flashes until the picture appears.

POWER

If "VIDEO" appears on the screen, press TV so that a channel number appears.
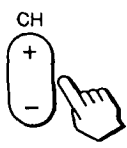
2 Select the channel you want to watch:

To select a channel directly

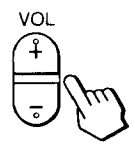Press the 0 – 9 buttons and then press ENTER. For example, to select channel 10, press 1, 0 and ENTER.

① ② ③
④ ⑤ ⑥
⑦ ⑧ ⑨
⓪ ENTER

To scan through channels

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

CH

3 Press VOL +/- to adjust the volume.

VOL

VOLUME
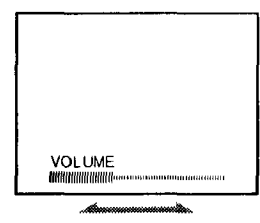
Switching quickly between two channels

Press JUMP.

The channel you watched previously appears.

JUMP

Pressing JUMP again switches back the channel.

Muting the sound

Press MUTING.

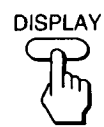"MUTING" appears on the screen.

MUTING

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

Displaying on-screen information

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

Press DISPLAY.

DISPLAY

To cancel the display, press DISPLAY again.

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

"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.

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.

TV/VIDEO

To return to TV picture, press TV.

Previewing the menu displays

Press DEMO on the front of the projection TV.
Menus are displayed one by one.

DEMO

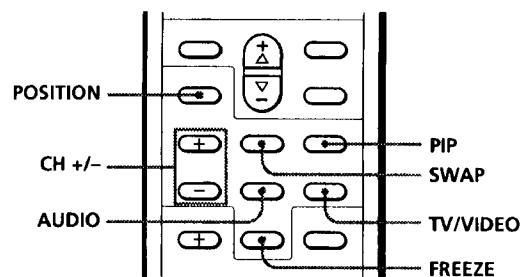To cancel Demo function, press any button.
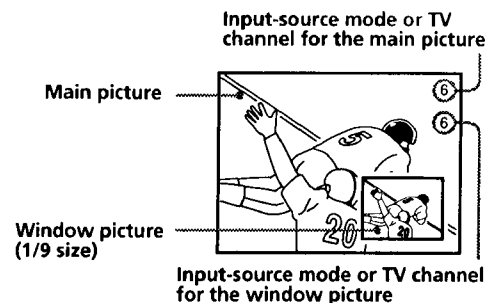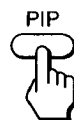
Watching two programs at one time — PIP

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 by connecting a VCR. See "Connecting an antenna/cable TV system with a VCR" (page 7) for connections.
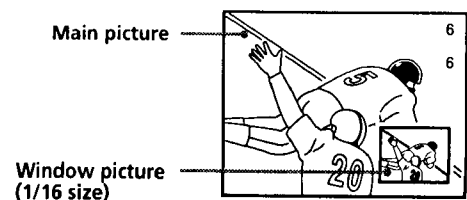
POSITION
CH +/-
AUDIO
PIP
SWAP
TV/VIDEO
FREEZE

Displaying a window picture

Press PIP.

Input-source mode or TV channel for the main picture

PIP

Main picture

Window picture (1/9 size)

Input-source mode or TV channel for the window picture

Press PIP again to display a smaller window picture.

PIP

Main picture

Window picture (1/16 size)

Each time your 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 OUT jacks when you listen to it.
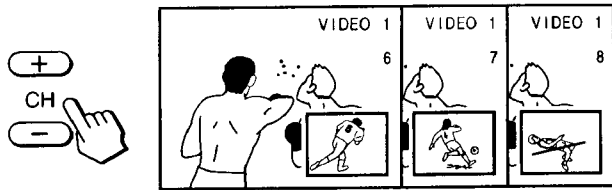
Changing the window picture input mode

Press TV/VIDEO in the PIP control area of the remote commander to select the input mode.
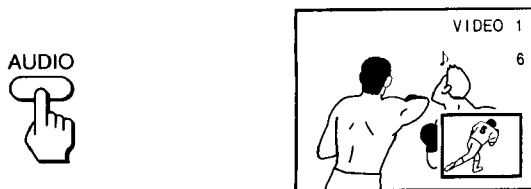Each time you press TV/VIDEO, "TV," "VIDEO 1," "VIDEO 2" and "VIDEO 3" appear in sequence.

TV/VIDEO
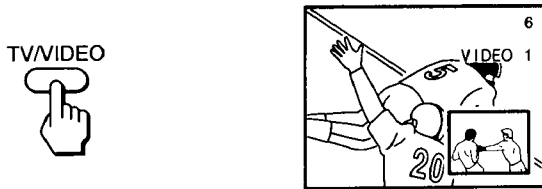
Changing TV channels in the window picture

Press CH +/– in the PIP control area.

CH

Listening to the sound of the window picture

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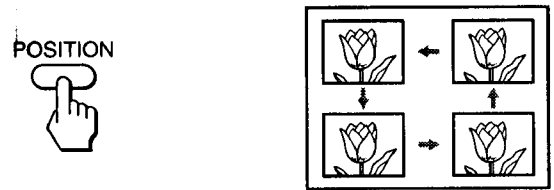
AUDIO

To restore the main picture sound, press AUDIO again.

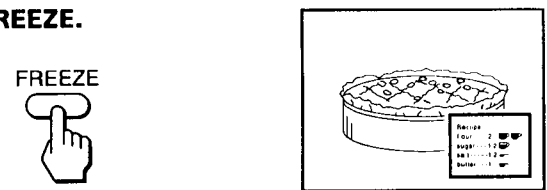## Changing the position of the window picture

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

POSITION

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.
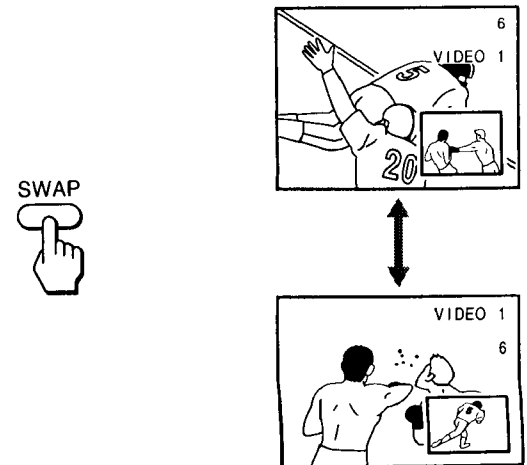
Press FREEZE.

FREEZE

To restore the normal screen, press FREEZE again.

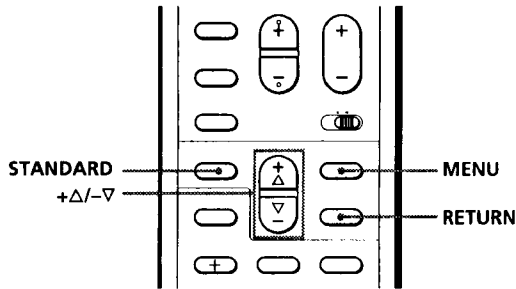## Swapping the main and window pictures

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

SWAP

Selecting picture and sound effects (PROGRAM PALETTE)

You can select one of four settings for picture and sound effects that best suits the program.

STANDARD
+Δ/-∇
MENU
RETURN

1 Press MENU.

2 Make sure the cursor (►) is beside PROG PALETTE and press RETURN.

If the cursor is not beside PROG PALETTE, press + Δ or - ∇ to move the cursor and press RETURN.

RETURN

```
□
►■STANDARD
■MOVIE
■SPORTS
■NEWS
VIDEO
AUDIO
⊃MENU
```

3 Select the item you want. For example:

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

```
□
■STANDARD
►■MOVIE
■SPORTS
■NEWS
VIDEO
AUDIO
⊃MENU
```

(2) Press RETURN.

RETURN

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

Effect of four items

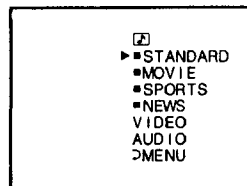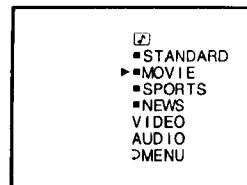| Item	Picture effect	Sound effect
STANDARD	Standard (factory preset levels)	Standard (factory preset levels)
MOVIE	Finely detailed picture	Theatrical audio effect
SPORTS	Vivid, bright picture	Sound with a sports stadium effect
NEWS	Reduced noise in picture	Clear voice reproduction

Selecting STANDARD with a button on the remote commander

Press STANDARD.

STANDARD

Adjusting the picture (VIDEO)

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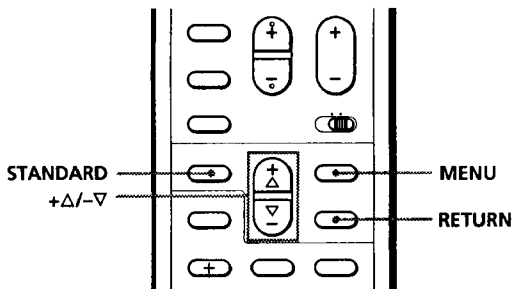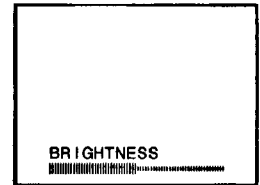

1 Press MENU.

2 Make sure the cursor (▶) is beside PROG PALETTE and press RETURN.

3 Press + △ or – ▽ to move the cursor to VIDEO and press RETURN.
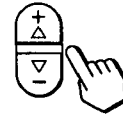The VIDEO adjustment menu appears.
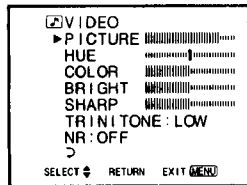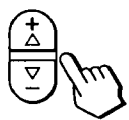
4 Select the item you want to adjust.
For example:
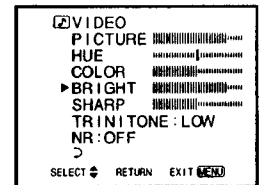(1) To adjust brightness, press + △ or – ▽ to select BRIGHT.
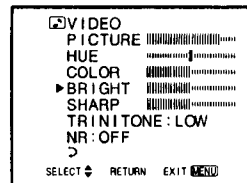
(2) Press RETURN.

5 Adjust the selected item:
(1) Press + △ or – ▽ to adjust the item.

(2) Press RETURN.
The new setting appears in the VIDEO menu.

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

6 To adjust other items, repeat steps 4 and 5.

Description of adjustable items

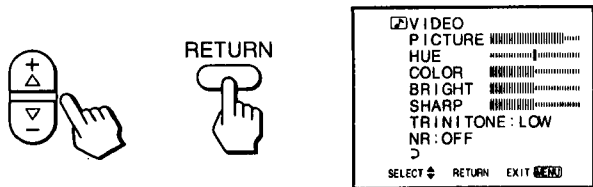| Item	Press + △ to	Press – ▽ to
PICTURE	Increase picture contrast for vivid color	Decrease picture contrast for soft color
HUE	Make overall picture greenish	Make overall picture purplish
COLOR	Increase color intensity	Decrease color intensity
BRIGHT	Brighten the picture	Darken the picture
SHARP	Sharpen the picture	Soften the picture

To restore the factory settings
Press STANDARD on the remote commander.
You can also do this by selecting STANDARD in the PROG PALETTE menu.
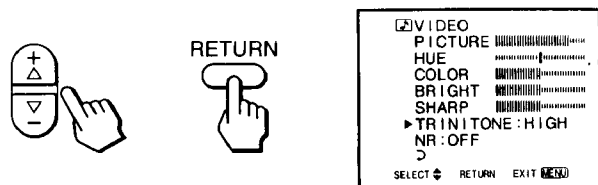
Adjusting the color temperature (TRINITONE)

Reducing picture noise (NR)

The TRINITONE feature controls the color temperature, permitting white balance preference adjustment without affecting skin tones.
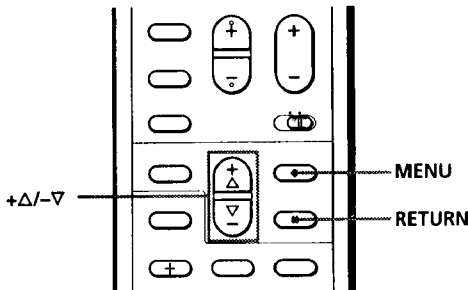
You can reduce picture noise when NR is set to ON.

1 Press MENU.

2 Make sure the cursor (▶) is beside PROG PALETTE, and press RETURN.

3 Press + △ or – ▽ to select VIDEO and press RETURN.

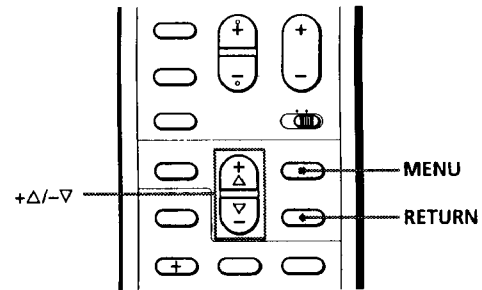**4** Press + △ or – ▽ to select TRINITONE and press RETURN.

```
⊡VIDEO
    PICTURE ||||||||||||||||||||····
    HUE         ··········|··········
    COLOR    |||||||||||··········
    BRIGHT   |||||||||||··········
    SHARP    |||||||||||··········
    TRINITONE : LOW
    NR : OFF
    ⊃
SELECT ♦  RETURN  EXIT MENU
```

5 Press + △ or – ▽ to select LOW or HIGH and press RETURN.

```
⊡VIDEO
    PICTURE ||||||||||||||||||||····
    HUE         ··········|··········.
    COLOR    |||||||||||··········
    BRIGHT   |||||||||||··········
    SHARP    |||||||||||··········
  ▶TRINITONE : HIGH
    NR : OFF
    ⊃
SELECT ♦  RETURN  EXIT MENU
```

Choose	To
LOW	Make the white color reddish.
HIGH	Make the white color bluish.

1 Press MENU.

2 Make sure the cursor (▶) is beside PROG PALETTE, and press RETURN.

3 Press + △ or – ▽ to select VIDEO and press RETURN.

4 Press + △ or – ▽ to select NR and press RETURN.

```
⊡VIDEO
    PICTURE ||||||||||||||||||||····
    HUE         ··········|··········
    COLOR    |||||||||||··········
    BRIGHT   |||||||||||··········
    SHARP    |||||||||||··········
    TRINITONE : LOW
    NR : OFF
    ⊃
SELECT ♦  RETURN  EXIT MENU
```
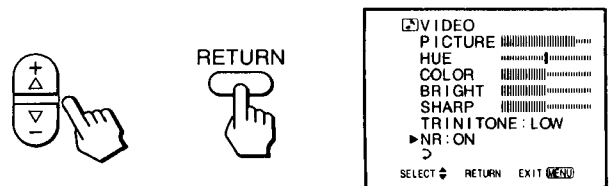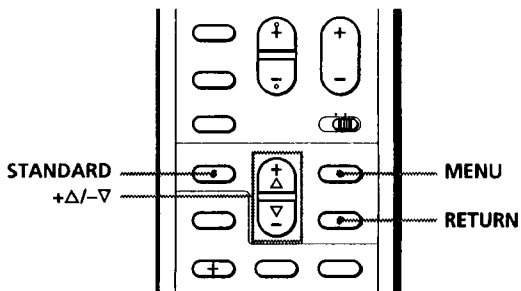
5 Press + △ or – ▽ to select ON and press RETURN.

```
⊡VIDEO
    PICTURE ||||||||||||||||||||····
    HUE         ··········|··········
    COLOR    |||||||||||··········
    BRIGHT   |||||||||||··········
    SHARP    |||||||||||··········
    TRINITONE : LOW
  ▶NR : ON
    ⊃
SELECT ♦  RETURN  EXIT MENU
```
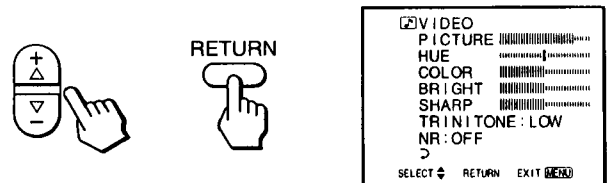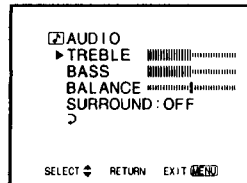
Adjusting sound (AUDIO)

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.
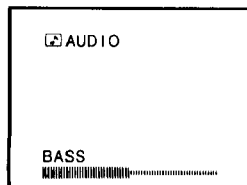
1 Press MENU.

2 Make sure the cursor (▶) is beside PROG PALETTE, and press RETURN.

3 Press + △ or - ▽ to select AUDIO and press RETURN.

4 Select the item you want to adjust.
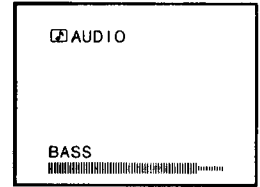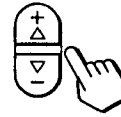For example:
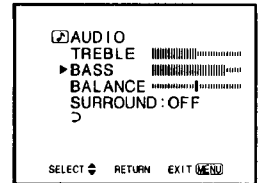(1) To adjust bass, press + △ or - ▽ to select BASS.
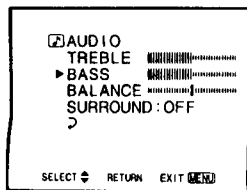
(2) Press RETURN.

5 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.

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

Description of adjustable items

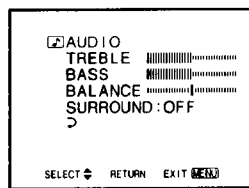| Item	Press + △ to	Press - ▽ to
TREBLE	Increase the treble response	Decrease the treble response
BASS	Increase the bass response	Decrease the bass response
BALANCE	Emphasize the right speaker's volume	Emphasize the left speaker's volume

To restore the factory settings
Press STANDARD on the remote commander.
You can also do this by selecting STANDARD in the PROG PALETTE menu.
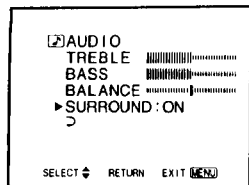
Listening to surround sound (SURROUND)

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.
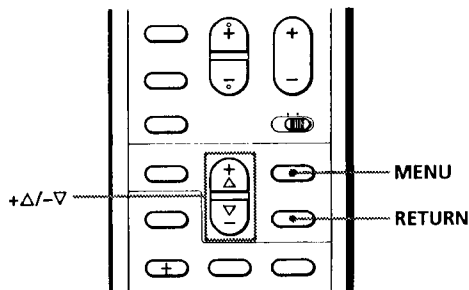
+Δ/-∇ ···· MENU, RETURN

1 Press MENU.

2 Make sure the cursor (▶) is beside PROG PALETTE, and press RETURN.

3 Press + Δ or – ∇ to select AUDIO and press RETURN.

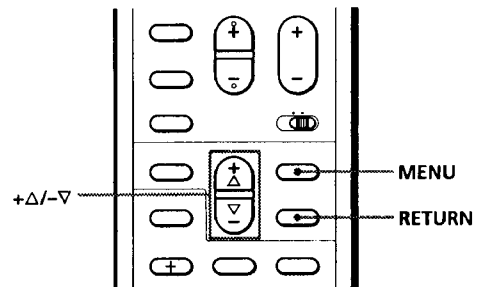**4 Press + Δ or – ∇ to select SURROUND and press RETURN.**

```
⊡AUDIO
   TREBLE   ||||||||||||·········
   BASS     ||||||||||||·········
   BALANCE  ·········|·········
   SURROUND : OFF
   ⊃

SELECT ⬍   RETURN   EXIT MENU
```

5 Press + Δ or – ∇ to select ON and press RETURN.

```
⊡AUDIO
   TREBLE   ||||||||||||·········
   BASS     ||||||||||||·········
   BALANCE  ·········|·········
 ▶ SURROUND : ON
   ⊃

SELECT ⬍   RETURN   EXIT MENU
```
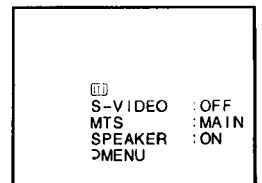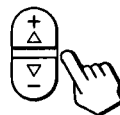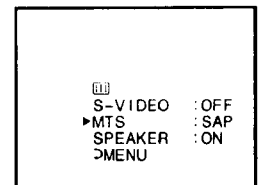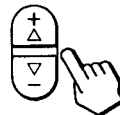
Selecting stereo or bilingual programs (MTS)

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).

+Δ/-∇ ···· MENU, RETURN

1 Press MENU.

2 Press + Δ or – ∇ to select MODE SET and press RETURN.

3 Press + Δ or – ∇ to select MTS and press RETURN.

RETURN

```
   ⊞
   S-VIDEO  : OFF
   MTS      : MAIN
   SPEAKER  : ON
   ⊃MENU
```

4 Press + Δ or – ∇ to select MAIN, SAP or MONO and press RETURN.

RETURN

```
   ⊞
   S-VIDEO  : OFF
 ▶ MTS      : SAP
   SPEAKER  : ON
   ⊃MENU
```

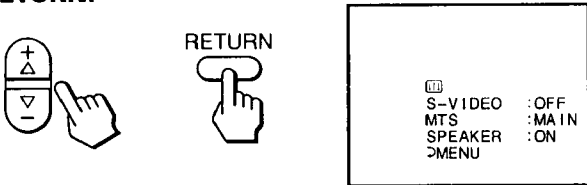| Choose	To
MAIN	Listen to stereo sound. The STEREO indicator on the projection TV lights up while a stereo broadcast is received.
SAP	Listen to bilingual programs. The sound of non-SAP programs will be muted when SAP is selected.
MONO	Reduce noise during stereo broadcasts.

Note
• Stereo and SAP sounds are subject to program sources.
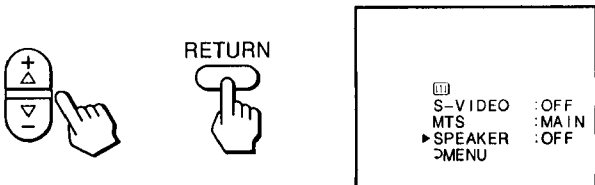
Setting the speaker switch (SPEAKER)

You may switch off the projection TV speakers when, for example, you want to listen to the sound through a stereo system.
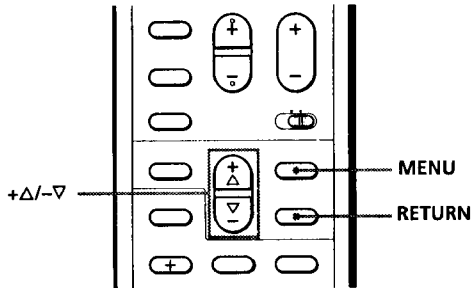
+△/-▽ ——— MENU
RETURN

1 Press MENU.

2 Press + △ or – ▽ to select MODE SET and press RETURN.

3 Press + △ or – ▽ to select SPEAKER and press RETURN.

RETURN

```
📺
S-VIDEO    :OFF
MTS        :MAIN
SPEAKER    :ON
⊃MENU
```

4 Press + △ or – ▽ to select ON or OFF and press RETURN.

RETURN

```
📺
S-VIDEO    :OFF
MTS        :MAIN
▶SPEAKER   :OFF
⊃MENU
```

Displaying closed caption

Some programs are broadcast with Closed Caption (Caption Vision). To display Closed Caption, select either CC1, CC2, TEXT1 or TEXT2 with the C.CAPTION button.
CC1 or CC2 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 or TEXT2 shows you text, that is information presented using either half or the whole screen. It is usually not related to the program.
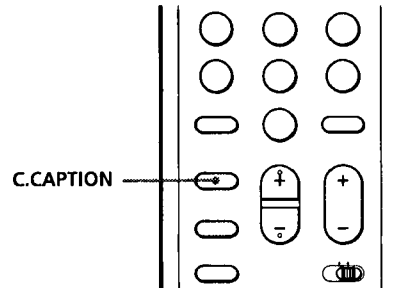
C.CAPTION

Press C.CAPTION repeatedly to select the closed caption mode.
Each time you press C.CAPTION, the mode changes as shown blow.

CC OFF→CC 1→CC 2→TEXT 1→TEXT 2

C.CAPTION

```
TEXT 1
```
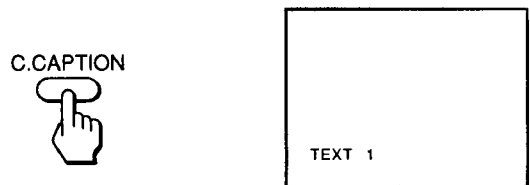
If you do not want to display Closed Caption or Text, select CC OFF.

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.
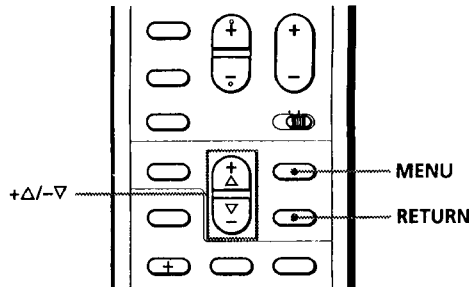
Setting daylight saving time (DAYLIGHT SAVING)

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 **25**), On/off Timer (page **26**) and Channel Block (page **27**) settings automatically move one hour ahead.
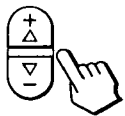
Daylight saving end
- After the last Sunday in October, set DAYLIGHT SAVING to NO. Current time, On/off Timer and Channel Block settings automatically move one hour back.
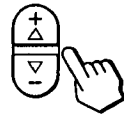
+Δ/–∇ ——— MENU

——— RETURN

1 Press MENU.

2 Press + Δ or – ∇ to move the cursor (►) to TIME and press RETURN.

RETURN

```
 ⊕
► CURRENT TIME SET
  ON/OFF TIMER
  CHANNEL BLOCK
  DAYLIGHT SAVING:NO
  ⊃MENU
```

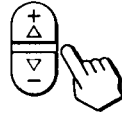## 3 Press + Δ or – ∇ to select DAYLIGHT SAVING and press RETURN.

RETURN

```
 ⊕
  CURRENT TIME SET
  ON/OFF TIMER
  CHANNEL BLOCK
  DAYLIGHT SAVING:NO
  ⊃MENU
```

4 Press + Δ or – ∇ to select YES or NO and press RETURN.

RETURN

```
 ⊕
  CURRENT TIME SET
  ON/OFF TIMER
  CHANNEL BLOCK
► DAYLIGHT SAVING:YES
  ⊃MENU
```
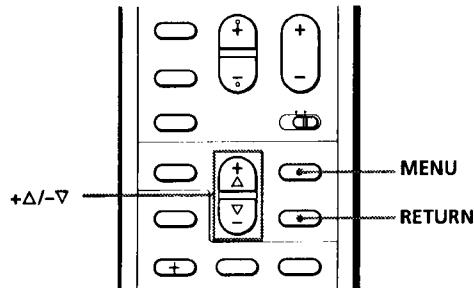
Choose	To
YES	Set for daylight saving start
NO	Set for daylight saving end

Setting the clock (CURRENT TIME SET)

Set the current time before using On/off Timer (page 26) and Channel Block features (page 27). For example, set the clock to 3:15 p.m., Monday.
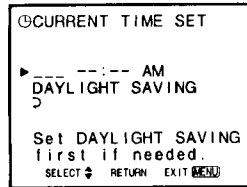
+Δ/-∇ ——— MENU

——— RETURN

1 Press MENU.

2 Press + Δ or − ∇ to select TIME and press RETURN.

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

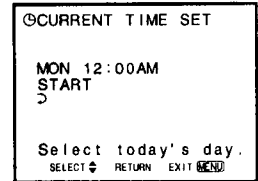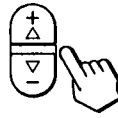If the cursor is not beside CURRENT TIME SET, press + Δ or − ∇ to move the cursor and press RETURN.

RETURN

```
⊙CURRENT TIME SET

▶___ --:-- AM
 DAYLIGHT SAVING
 ⊃

 Set DAYLIGHT SAVING
 first if needed.
 SELECT ♦   RETURN   EXIT MENU
```

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

4 Set the current time.
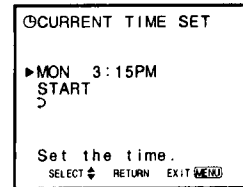(1) Press RETURN to start setting the time.

RETURN

(2) Press + Δ or − ∇ to select the day of the week and press RETURN.

RETURN

```
⊙CURRENT TIME SET

MON 12:00AM
START
⊃

Select today's day.
SELECT ♦   RETURN   EXIT MENU
```

(3) Using + Δ or − ∇ and RETURN, select hour and minute in the same way as in step (2).

```
⊙CURRENT TIME SET

▶MON  3:15PM
 START
 ⊃

 Set the time.
 SELECT ♦   RETURN   EXIT MENU
```

5 Press + Δ or − ∇ to select START and press RETURN.
The clock starts working.

To correct the time
Display the CURRENT TIME SET screen and repeat steps above.
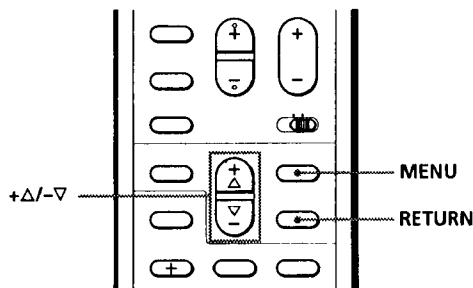
To display the current time
Press DISPLAY.

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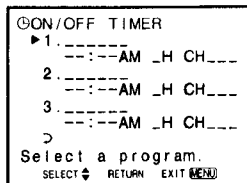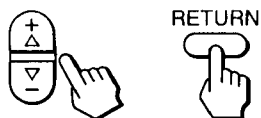• If you unplug the projection TV or a power interruption occurs, the clock will be erased. Reset the current time.

The ON/OFF TIMER feature allows you to make the TV program of your choice appear on the screen at your specified time.

+Δ/−∇ ─────── MENU
                RETURN

1 Press MENU.

2 Press + Δ or − ∇ to select TIME and press RETURN.

3 Press + Δ or − ∇ to select ON/OFF TIMER and press RETURN.


```
⊕ON/OFF TIMER
►1.------
    --:--AM _H CH___
 2.------
    --:--AM _H CH___
 3.------
    --:--AM _H CH___
 ⊃
Select a program.
SELECT♦  RETURN  EXIT MENU
```
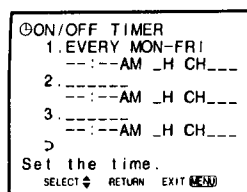
4 Enter the ON/OFF TIMER setting.
(1) To set program 1, press RETURN.
    To set program 2 or 3, press + Δ or − ∇ to select that program and press RETURN.
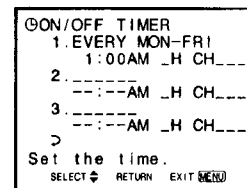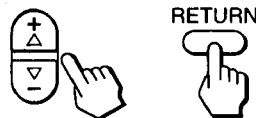
(2) Press + Δ or − ∇ to select the day of the week and press RETURN.
    Each time you press + Δ or − ∇, the day of the week changes as shown below.
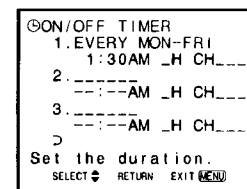   EVERY SUN–SAT→EVERY MON–FRI→
    SUNDAY→MONDAY→...→SATURDAY→
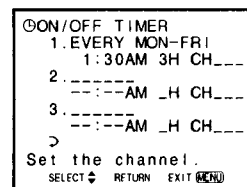   " ------(blank)"→EVERY SUN→EVERY MON
    → ...→EVERY SAT


```
⊕ON/OFF TIMER
 1.EVERY MON-FRI
    --:--AM _H CH___
 2.------
    --:--AM _H CH___
 3.------
    --:--AM _H CH___
 ⊃
Set the time.
SELECT♦  RETURN  EXIT MENU
```

(3) Press + Δ or − ∇ to select the starting hour and press RETURN.


```
⊕ON/OFF TIMER
 1.EVERY MON-FRI
    1:00AM _H CH___
 2.------
    --:--AM _H CH___
 3.------
    --:--AM _H CH___
 ⊃
Set the time.
SELECT♦  RETURN  EXIT MENU
```

(4) Press + Δ or − ∇ to select the starting minute and press RETURN.


```
⊕ON/OFF TIMER
 1.EVERY MON-FRI
    1:30AM _H CH___
 2.------
    --:--AM _H CH___
 3.------
    --:--AM _H CH___
 ⊃
Set the duration.
SELECT♦  RETURN  EXIT MENU
```

(5) Press + Δ or − ∇ to select the hour duration and press RETURN.


```
⊕ON/OFF TIMER
 1.EVERY MON-FRI
    1:30AM 3H CH___
 2.------
    --:--AM _H CH___
 3.------
    --:--AM _H CH___
 ⊃
Set the channel.
SELECT♦  RETURN  EXIT MENU
```

(6) Press + Δ or − ∇ to select the channel and press RETURN.


```
⊕ON/OFF TIMER
 1.EVERY MON-FRI
    1:30AM 3H CH  8
►2.------
    --:--AM _H CH___
 3.------
    --:--AM _H CH___
 ⊃
Select a program.
SELECT♦  RETURN  EXIT MENU
```
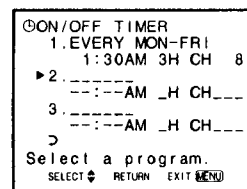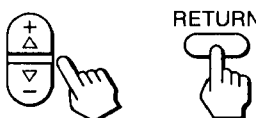
The TIMER/STAND BY indicator on the projection TV lights.

5 To set other programs, 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 an ON/OFF TIMER setting
Display the ON/OFF TIMER screen, select the setting you want to cancel with + Δ or − ∇, and select the blank (------) for the day of the week.

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.

This feature allows you to prevent children from watching unsuitable programs.
For example, set CHANNEL BLOCK for every Saturday at 4:30 p.m. for one hour, on channel 12.
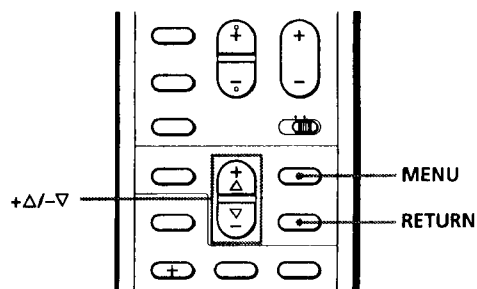

+Δ/−∇ ——— MENU / RETURN

1 Press MENU.

2 Press + Δ or − ∇ to select TIME and press RETURN.

3 Press + Δ or − ∇ to select CHANNEL BLOCK and press RETURN.


```
⊙CHANNEL BLOCK

▶ _ _ _ _ _ _ _
   _ _ : _ _ -AM _H CH_ _ _
   ↄ

SELECT ‡   RETURN   EXIT MENU
```
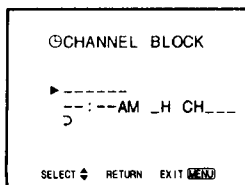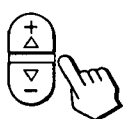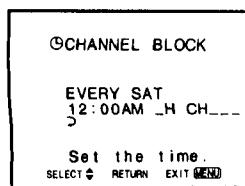
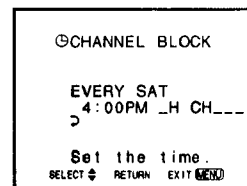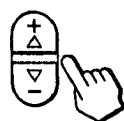## 4 Enter a CHANNEL BLOCK setting.

(1) Press RETURN to start setting.

(2) Press + Δ or − ∇ to select the day of the week and press RETURN.
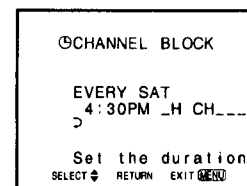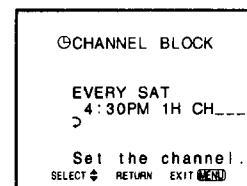Each time you press + Δ or − ∇, the day changes as shown below.
EVERY SUN–SAT→EVERY MON—FRI→
SUNDAY→MONDAY→...→SATURDAY→
"------ (blank)"→EVERY SUN→EVERY
MON→ ...→EVERY SAT


```
⊙CHANNEL BLOCK

EVERY SAT
12:00AM _H CH_ _ _
ↄ

Set the time.
SELECT ‡   RETURN   EXIT MENU
```

(3) Press + Δ or − ∇ to select the hour to start the channel block and press RETURN.


```
⊙CHANNEL BLOCK

EVERY SAT
4:00PM _H CH_ _ _
ↄ

Set the time.
SELECT ‡   RETURN   EXIT MENU
```

(4) Press + Δ or − ∇ to select the minute and press RETURN.


```
⊙CHANNEL BLOCK

EVERY SAT
4:30PM _H CH_ _ _
ↄ

Set the duration.
SELECT ‡   RETURN   EXIT MENU
```
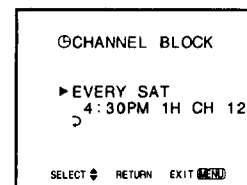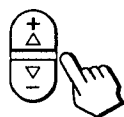
(5) Press + Δ or − ∇ to select the hour duration you want to block and press RETURN.
Each time you press RETURN, the hour duration increases by one hour up to a maximum of six hours.


```
⊙CHANNEL BLOCK

EVERY SAT
4:30PM 1H CH_ _ _
ↄ

Set the channel.
SELECT ‡   RETURN   EXIT MENU
```

(6) Press + Δ or − ∇ to select the channel and press RETURN.


```
⊙CHANNEL BLOCK

▶EVERY SAT
4:30PM 1H CH 12
ↄ

SELECT ‡   RETURN   EXIT MENU
```
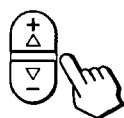
At the preset time, a message "BLOCKED" is displayed in red on the screen if the blocked channel is selected. During the preset duration, the picture of the preset channel is blocked and the sound is muted.

### To cancel a CHANNEL BLOCK setting

Display the CHANNEL BLOCK screen and select a blank (------) for the day of the week.

Note
• If the CHANNEL BLOCK and ON/OFF TIMER settings are overlapped, the later time setting has priority over the other setting.
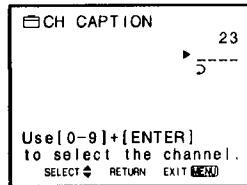
Customizing channel names (CH CAPTION)

You can caption each channel number using up to four letters or numbers to be displayed on the screen. This feature allows you to easily identify which channel you are watching. For example, you can name channel 20 "ESPN."
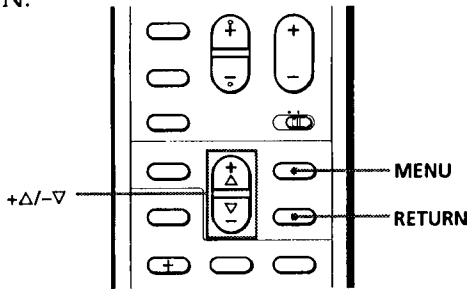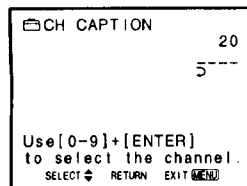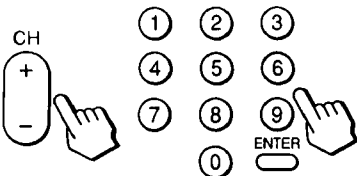
+△/−▽ —— MENU
—— RETURN

1 Press MENU.

2 Press + △ or − ▽ to select SET UP and press RETURN.

3 Press + △ or − ▽ to select CH CAPTION and press RETURN.

RETURN

```
☐CH CAPTION
                        23
                    ▸Ͻͨ---
Use[0-9]+[ENTER]
to select the channel.
SELECT ↕  RETURN  EXIT(MENU)
```
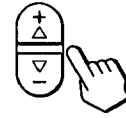
4 Press CH +/− or press 0–9 buttons and ENTER to enter the channel number that you want to caption, and press RETURN.

```
☐CH CAPTION
                        20
                    Ͽͨ---
Use[0-9]+[ENTER]
to select the channel.
SELECT ↕  RETURN  EXIT(MENU)
```
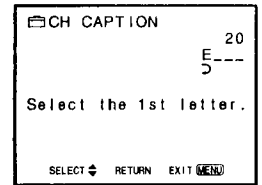
5 Enter the letters or numbers (up to four) to caption the channel:

(1) Press + △ or − ▽ to select the first letter (number).
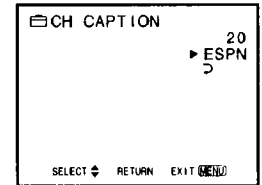Each time you press + △ or − ▽, the letter (number) changes as shown below.

0→1→...→9→A→B→...→Z→&→/→_(blank space)
↑_____↓

(2) Press RETURN.

RETURN

```
☐CH CAPTION
                        20
                    E---
                    Ͽͨ
Select the 1st letter.

SELECT ↕  RETURN  EXIT(MENU)
```

(3) Repeat steps (1) and (2) to select the remaining letters (numbers) and press RETURN.
For the caption space you want to leave blank, select "_ (blank)."

RETURN

```
☐CH CAPTION
                        20
                    ▸ESPN
                    Ͽͨ

SELECT ↕  RETURN  EXIT(MENU)
```

6 Repeat steps 4 and 5 to caption other channels.

To erase a caption
Select the channel number with the caption you want to erase in the CH CAPTION screen, select "_ (blank)" for the caption, and press RETURN.

Notes
• You can set up to 32 channel captions. If 32 captions have been set, "The memory is full, sorry" appears on the screen.
• If the CH CAPTION menu appears in black, the projection TV is set to a video input, and you cannot select CH CAPTION. Press TV so that a channel number appears.
• If more than 90 seconds elapse after you press a button, the menu disappears automatically.

Setting video labels (VIDEO LABEL)

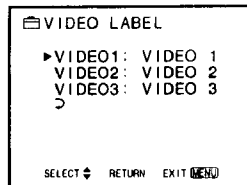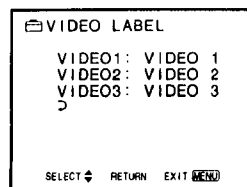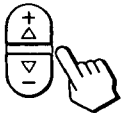This feature allows you to label each input mode so that you can easily identify the connected equipment. For example, you can label VIDEO 1 IN as VHS.
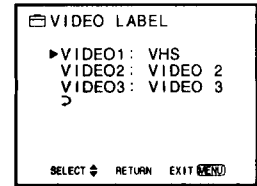
+Δ/-∇ ── MENU
── RETURN
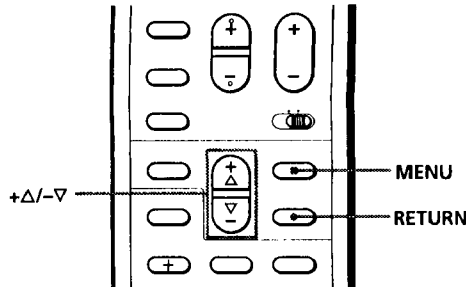
1 Press MENU.

2 Press + Δ or – ∇ to select SET UP and press RETURN.

3 Press + Δ or – ∇ to select VIDEO LABEL and press RETURN.

RETURN

```
📁VIDEO LABEL

▶VIDEO1:  VIDEO  1
 VIDEO2:  VIDEO  2
 VIDEO3:  VIDEO  3
 つ

SELECT ♦   RETURN   EXIT MENU
```

4 Press + Δ or – ∇ to select the input mode you want to label and press RETURN.

RETURN

```
📁VIDEO LABEL

 VIDEO1:  VIDEO  1
 VIDEO2:  VIDEO  2
 VIDEO3:  VIDEO  3
 つ

SELECT ♦   RETURN   EXIT MENU
```

5 Press + Δ or – ∇ to select the label and press RETURN.

RETURN

```
📁VIDEO LABEL

▶VIDEO1:  VHS
 VIDEO2:  VIDEO  2
 VIDEO3:  VIDEO  3
 つ

SELECT ♦   RETURN   EXIT MENU
```
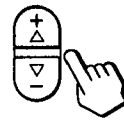
Each time you press + Δ or – ∇, the label changes as shown below.

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

VIDEO 2
VIDEO 2→BETA→8mm→VHS→LD

VIDEO 3
VIDEO 3→BETA→8mm→VHS→LD

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.

Selecting your favorite channels (FAVORITE CHANNEL)

This feature allows you to select the channels (up to seven channels) you use frequently by pressing RETURN (FAVORITE).

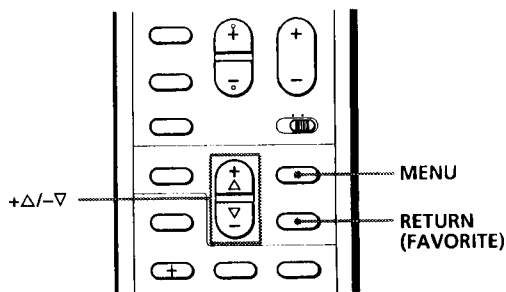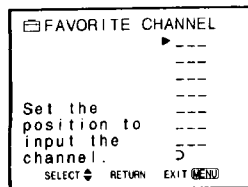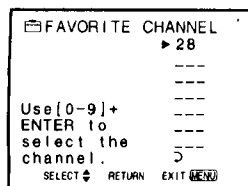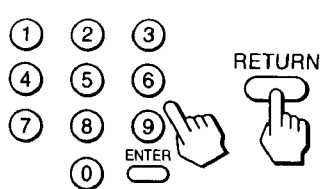## Setting the favorite channels

+△/−▽ ──── MENU

RETURN (FAVORITE)

1 Press MENU.

2 Press + △ or − ▽ to select SET UP and press RETURN.

3 Press + △ or − ▽ to select FAVORITE CHANNEL and press RETURN.

RETURN

```
🖃FAVORITE CHANNEL
                 ▶ ---
                   ---
                   ---
                   ---
Set the         ---
position to     ---
input the       ---
channel.        ⊃
SELECT ↕  RETURN  EXIT MENU
```

4 Press + △ or − ▽ to select the position (up to seven) and press RETURN.

5 Press 0 − 9 and ENTER to set your favorite channel number and press RETURN.

RETURN

ENTER

```
🖃FAVORITE CHANNEL
               ▶ 28
                 ---
                 ---
                 ---
Use [0-9]+     ---
ENTER to       ---
select the     ---
channel.       ⊃
SELECT ↕  RETURN  EXIT MENU
```
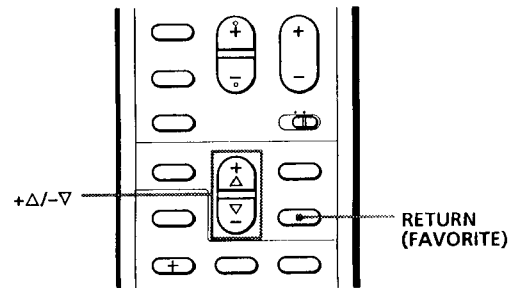
6 Repeat steps 4 and 5 to set other favorite channels.

To erase a favorite channel setting

Press + △ or − ▽ to select the channel number you want to erase and press RETURN. Then press the 0 button and ENTER.

Selecting a favorite channel

+△/−▽ ──── RETURN (FAVORITE)

1 Press RETURN.
The FAVORITE CHANNEL list appears showing the channel numbers you set with the captions (if set.)

RETURN

```
🖃
        ▶ 28
          20
          35DSNY
          23MTV
          ‾‾‾
          88ESPN
          2CNN
          56HBO
```
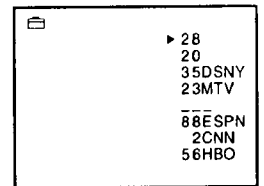
2 Press + △ or − ▽ to select the channel you want to watch and press RETURN.

RETURN

Operating video equipment

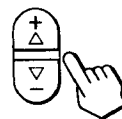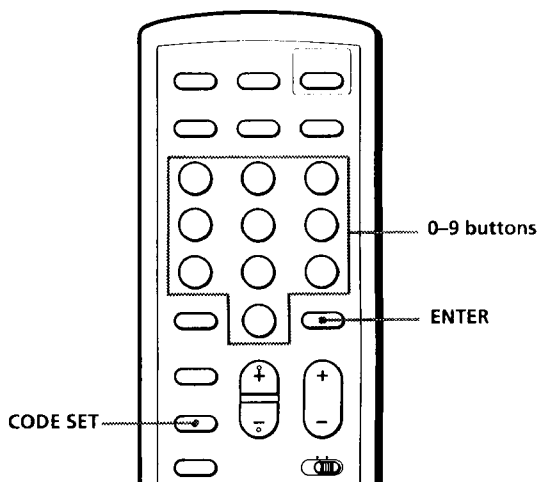You can operate a piece of video equipment that has an infrared remote sensor with the supplied remote commander. Before operating, set the manufacturer's code number.

Setting the manufacturer's code

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.
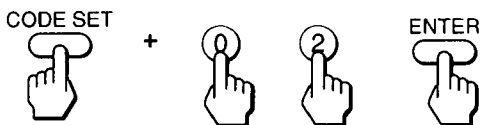
Manufacturer code numbers

| 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
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

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 (preset code for this remote commander)
MDP	04

Caution
When you remove a battery from the remote commander, the code may revert to 03. Reset the codes each time you replace the battery, if necessary.

Operating video equipment

VIDEO POWER

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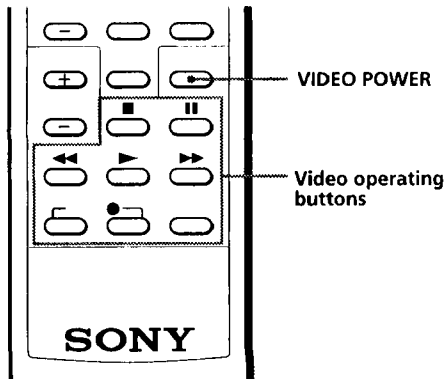
Use the video operating buttons on the remote commander to operate the video equipment.

Operating a VCR	Buttons on the remote commander
To turn on or off	Press VIDEO 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 II
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 II 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.
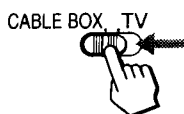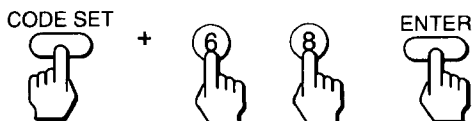
Operating a cable box

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

CABLE POWER

0–9 buttons

ENTER

CH +/–

JUMP
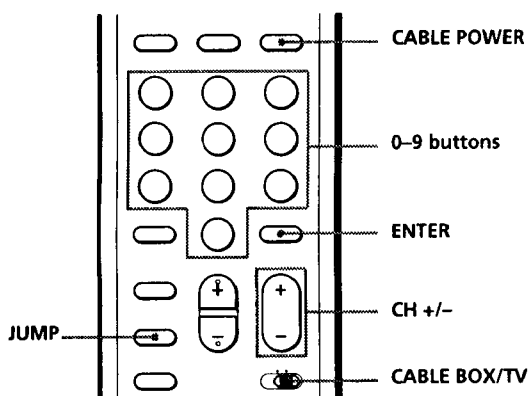
CABLE BOX/TV

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

CABLE BOX   TV

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.

CODE SET + ⑥ ⑧ ENTER

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

CABLE POWER

① ② ③
④ ⑤ ⑥
⑦ ⑧ ⑨ ENTER
⓪

JUMP

CH +/–
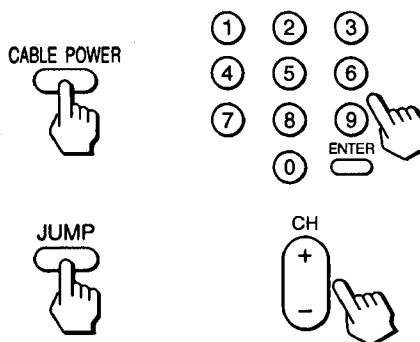
To operate the TV
Set the CABLE BOX/TV selector to TV. Then use the TV control buttons to control the TV.

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 **16**)

➡ Make sure the CABLE BOX/TV selector is in the correct position. (page **15**)

➡ Try another channel. It could be station trouble.

Poor or no picture (screen lit), good sound

➡ Adjust PICTURE in the VIDEO menu. (page **19**)

➡ Adjust BRIGHT in the VIDEO menu. (page **19**)

➡ Adjust the convergence. (page **10**)

➡ Check antenna/cable connections. (page **6**)

➡ Make sure S VIDEO is set to ON in the MODE SET menu, when watching video tapes with an S video type VCR. (page **8**)

Good picture, no sound

➡ Press MUTING so that "MUTING" disappears from the screen. (page **15**)

➡ Check the MTS setting in the MODE SET menu. (page **22**)

➡ Make sure SPEAKER is set to ON in the MODE SET menu. (page **23**)

No color

➡ Adjust COLOR in the VIDEO menu. (page **19**)

➡ 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 **11**)

➡ Check the antenna/cable connections. (page **6**)

➡ Make sure the channel is broadcasting programs.

Dotted lines or stripes

➡ Adjust the antenna.

➡ Move the 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.

➡ Check the CABLE setting in the SET UP menu. (page **11**)

Cannot receive upper channels (UHF) when using an antenna

➡ Check if CABLE is OFF in the SET UP menu. (page **11**)

➡ Use AUTO PROGRAM to add receivable channels that are not presently in the memory. (page **12**)

Cannot receive any channels when using cable TV

➡ Check if CABLE is ON in the SET UP menu. (page **11**)

➡ Use AUTO PROGRAM to add receivable channels that are not presently in the memory. (page **12**)

Remote commander does not operate

➡ Battery could be weak. Replace the battery. (page **10**)

➡ Make sure the projection TV's power cord is connected securely to wall outlet.

➡ 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 **15**)

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 **32**)

Specifications

Projection system	3 picture tubes, 3 lenses, horizontal in-line system
Picture tube	7 inch high-brightness monochrome tubes (5.5 raster size), with optical coupling and liquid cooling system
Projection lenses	High performance, large-diameter hybrid lens F1.0
Screen size	KP-46S55: 46 inches (measured diagonally) KP-53S55: 53 inches (measured diagonally)
Screen brightness	KP-46S55: 1,600 cd/m² KP-53S55: 1,250 cd/m²
Television system	American TV standards
Channel coverage	VHF: 2 – 13 / UHF: 14 – 69 / CATV: 1 – 125
Antenna	75 ohm external antenna terminal for VHF/UHF
Inputs/output	VIDEO IN 1

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 IN 2 and 3
  VIDEO (phono jacks):
  1 Vp-p, 75-ohms unbalanced, sync negative
  AUDIO (phono jacks):
  500 mVrms (100% modulation)
  Impedance: 47 kilohms
AUDIO OUT (phono jacks):
  900 mVrms (100% modulation)
  Impedance: 5 kilohms

Speaker	Full range speaker 160 mm (6.3 inches) diameter
Speaker output	10 W × 2
Power requirement	120 V, 60 Hz
Power consumption	Max. 310 W Average: 255 W Standby mode: 7 W
Dimensions(W/H/D)	KP-46S55: 1,029 × 1,287 × 538 mm (40 5/8 × 50 3/4 × 21 1/4 inches) KP-53S55: 1,164 × 1,336 × 644 mm (45 7/8 × 52 5/8 × 25 3/8 inches)
Mass	KP-46S55: 77 kg (170 lbs 4 oz) KP-53S55: 92 kg (203 lbs 12 oz)
Supplied accessories	Remote commander RM-Y125 (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 VCR tray SU-PJT1

Design and specifications are subject to change without notice.

Additional Information | 35

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