

**SONY**

\$ 749.95

TRINITRON® COLOR TV RECEIVER

**KV-1747R**

"A"

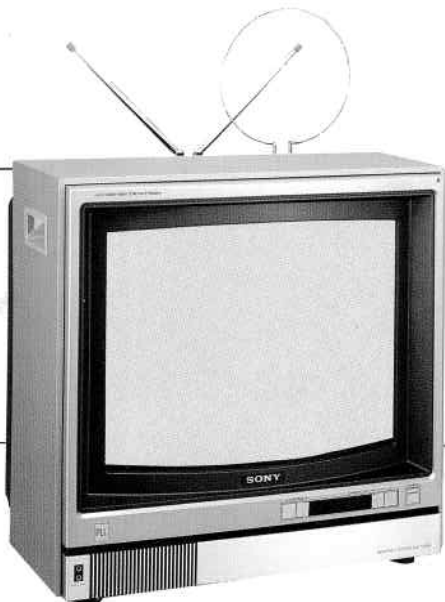
## OPERATING INSTRUCTIONS

Congratulations on choosing this advanced Sony Color TV Receiver. For best results, please read this manual thoroughly before operating the set, and keep these instructions handy for future reference.

## OWNER'S RECORD

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

Model No. KV-1747R      Serial No. \_\_\_\_\_



## CONTENTS

|   |            |
|---|------------|
| Warning.....                            | 2          |
| Precautions .....                       | 3          |
| Features.....                           | 4          |
| Trinitron color system.....             | 4          |
| Location of parts and controls.....     | 5          |
| Normal TV operation .....               | 7          |
| Cable TV operation.....                 | 13         |
| Remote control operation.....           | 14         |
| Channel presetting.....                 | 16         |
| External antenna/cable connection ..... | 18         |
| Viewing VTR playback .....              | 19         |
| Checking the set by yourself .....      | back cover |
| Specifications .....                    | back cover |

### WARNING

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

Dangerously high voltages are present inside the set. Do not open the cabinet. Refer servicing to qualified personnel only.

# PRECAUTIONS

## USE



- Operate only on 120 V ac.
- This set is equipped with a polarized ac power cord plug (one blade of the plug is wider than the other), which will fit into the power outlet only one way. Should you be unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your dealer for assistance. Do not defeat the safety purpose of the polarized plug.
- Should any liquid or solid object fall into the cabinet, unplug the set and have it checked by qualified personnel before operating it any further.
- Unplug the set from the wall outlet or set the MASTER button to OFF if it is not to be used for several days.
- To disconnect the cord, pull it out by the plug. Never pull the cord itself.

## INSTALLATION



- Allow adequate air circulation to prevent internal heat build-up. Do not place the set on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.
- Do not install the set in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.

## MAINTENANCE



- Save the original shipping carton and packing material; they will come in handy if you ever have to ship your set. For maximum protection, repack your set as it was originally packed at the factory.
- To keep the set looking brand-new, periodically clean it with a soft cloth. Stubborn stains may be removed with a cloth lightly dampened with a mild detergent solution. Never use strong solvents such as thinner or benzine, or abrasive cleansers since these will damage the cabinet. As a safety precaution, unplug the set before cleaning it.

For detailed safety precautions, see the leaflet "IMPORTANT SAFEGUARDS" included with this manual in the vinyl bag.

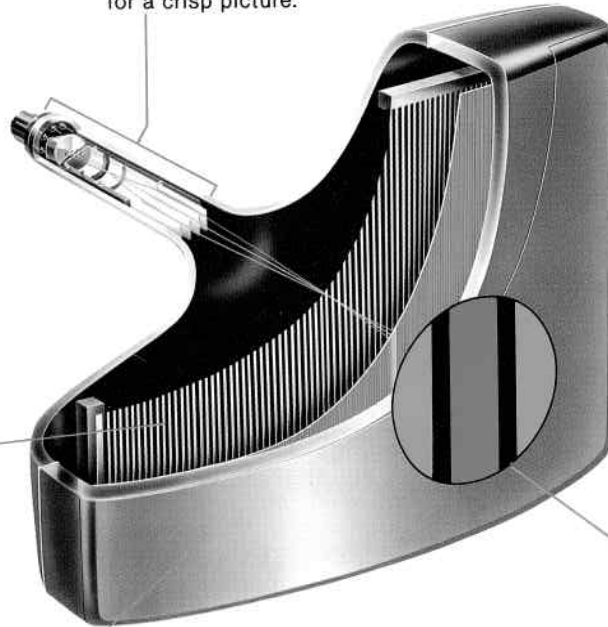
# FEATURES

- Remote Commander operation of power on/off, sound volume, muting, channel selection and picture control adjustment.
- CATV (cable television) programs or normal broadcast programs can be selected.
- Easy channel selection and presetting with the 10-button tuning system on the Remote Commander.
- Dynamic Picture system adjusts picture contrast automatically to produce more detail in both bright and dark areas of every scene.
- Dynamic Color system for superior color reproduction with natural facial color tones and dazzling whites.
- ECONOQUICK, energy-saving quick-start picture system.
- Easy-to-read green fluorescent display on the channel indicator.

## TRINITRON COLOR SYSTEM

The Sony Color TV employs the unique Trinitron Color System. A product of intensive engineering research, the Trinitron Color System provides a brighter and sharper picture, with simplified and more accurate service adjustments.

One-gun, three-beam electron focusing structure, and a single large electron lens for a crisp picture.



Aperture Grille color selection system for a brighter, sharper picture, less prone to moiré patterns (ripple or wave effect).

Guard Grille for a high contrast, brighter picture, without color spills.

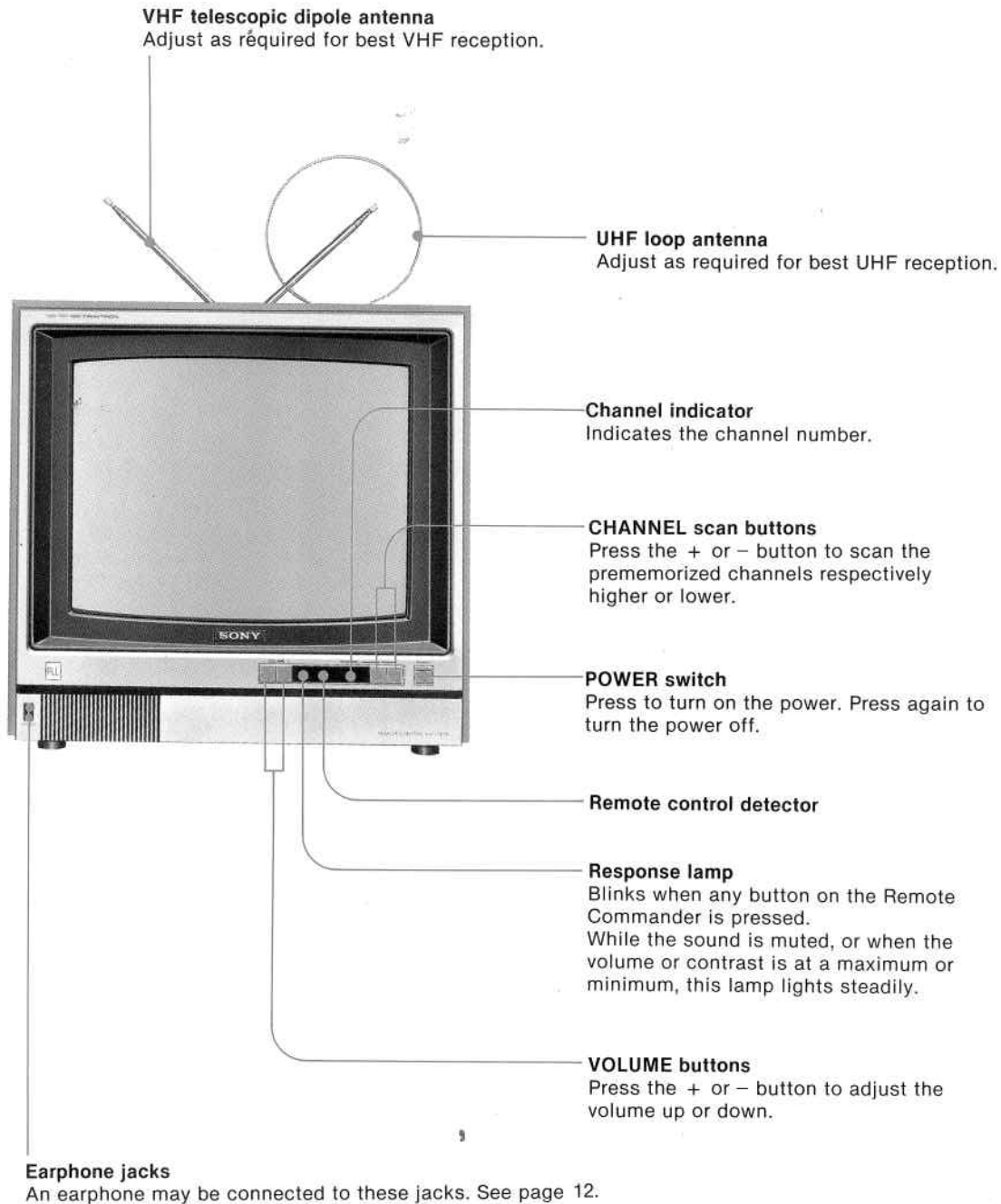
Cylindrical screen reduces distortion as viewed from the sides ( **A** ), sharpens the picture corners ( **B** ), and diminishes room reflections ( **C** ).



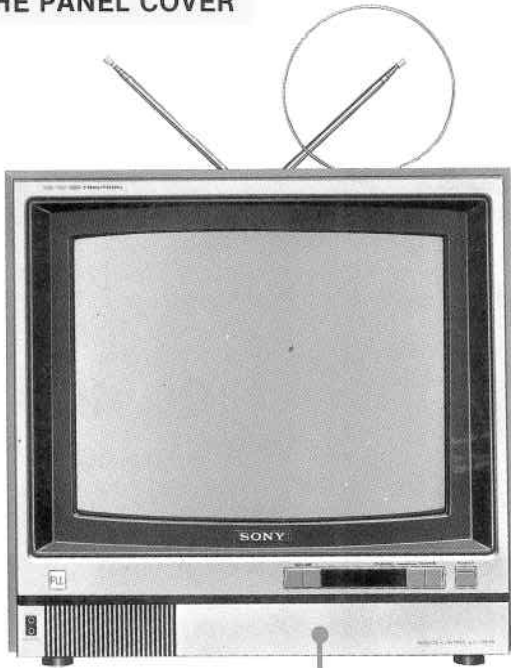
**A** and **B** are simulated pictures.

# LOCATION OF PARTS AND CONTROLS

## OUTSIDE PANEL



## INSIDE THE PANEL COVER

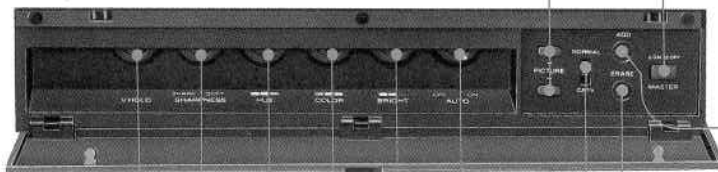


### PICTURE buttons

Adjust the contrast to suit your preference and the room lighting.

### MASTER switch

Generally keep this switch depressed (ON). If this switch is released (OFF), even if you press the POWER switch on the TV or the Remote Commander, the TV will not be turned on.



V (vertical) HOLD control

SHARPNESS control

HUE control

COLOR control

BRIGHT control

AUTO switch

See "PICTURE ADJUSTMENT" on page 10.

### ADD button

Press to add the desired channels. See "CHANNEL PRESETTING" on page 16.

### ERASE button

Press to erase inactive channels. See "CHANNEL PRESETTING" on page 17.

### NORMAL/CATV selector

Set to NORMAL to view normal TV programs and to CATV to view CATV programs. Receivable channels are as follows.

**NORMAL:** 2-13, 14-83

**CATV:** 2-13, A-2, A-1, A-W

This TV is supplied with the RM-707 Remote Commander. See "REMOTE CONTROL OPERATION" on page 14.

# NORMAL TV OPERATION (PANEL OPERATION)

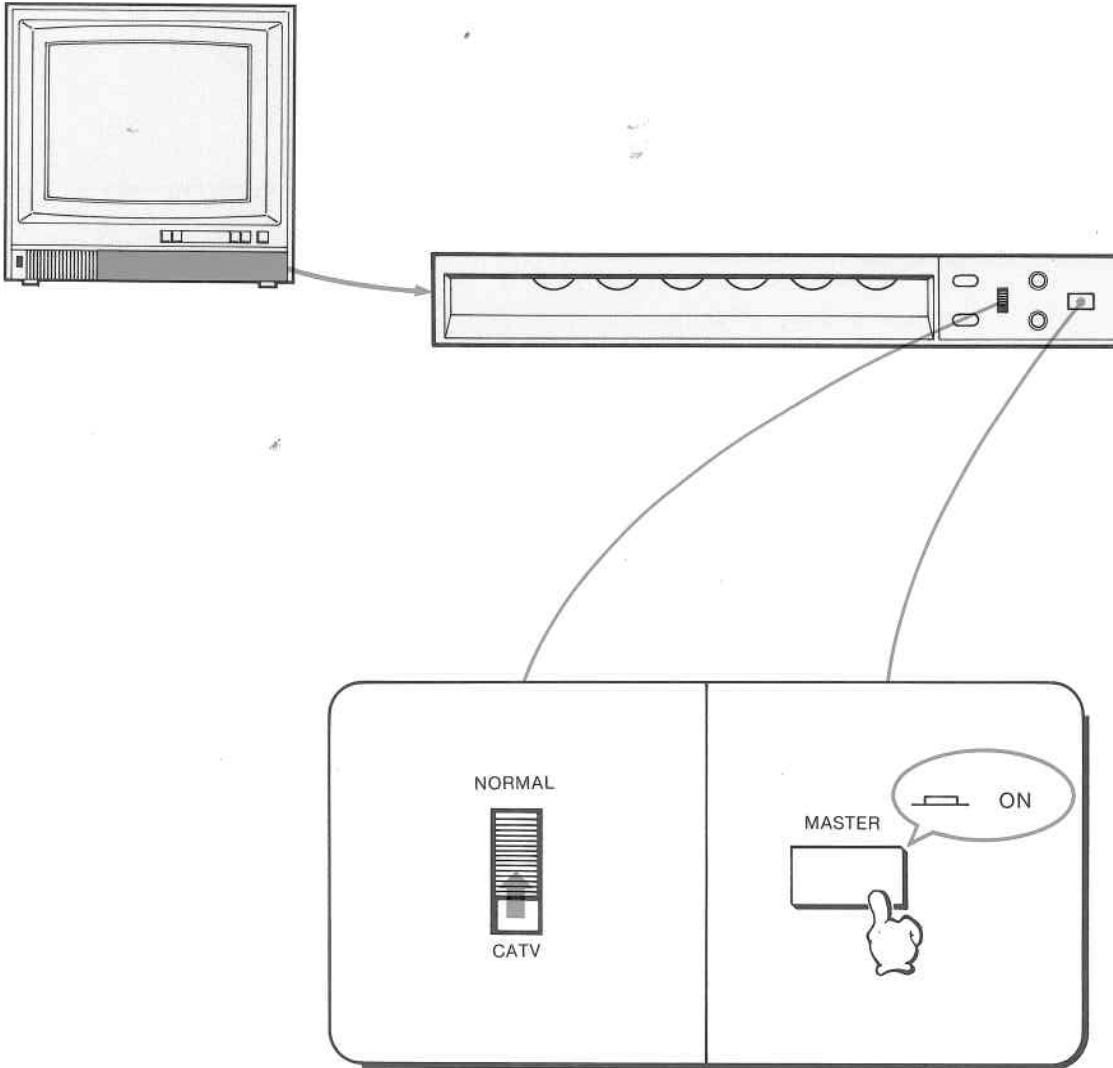
You can select the desired channel by scanning higher or lower for the channel among the prememorized channels with the CHANNEL scan buttons.

This TV is preset at the factory to receive VHF channels 2 through 13 with the CHANNEL scan buttons.

## Before operation

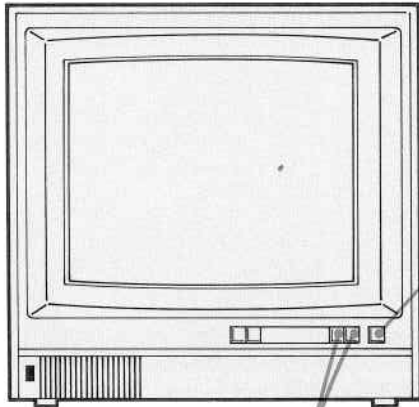
Check that the following controls are set to the normal position as illustrated.

Open the panel cover.



**TO VIEW THE TV**

**1** Turn on the power.

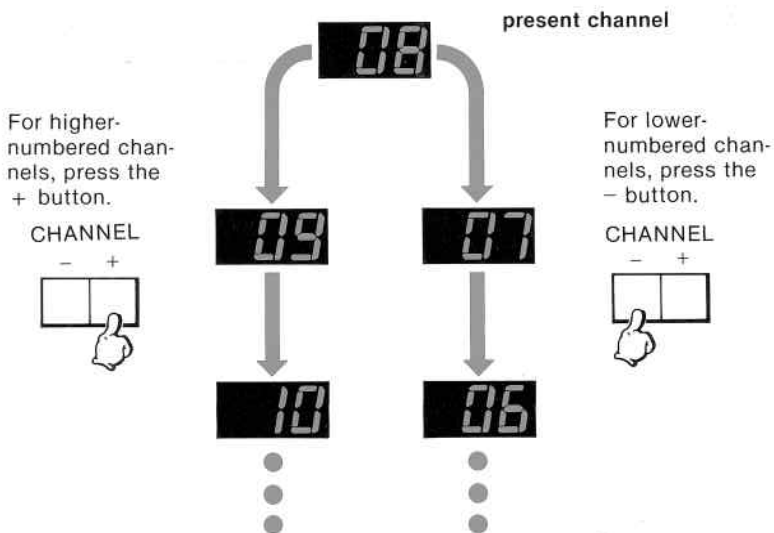


POWER



**2** Select the desired channel.

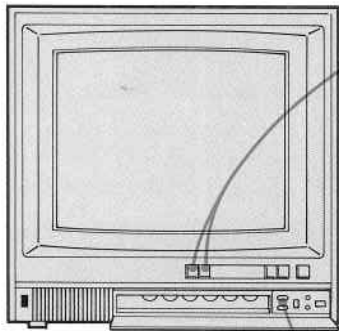
Examples using the CHANNEL scan buttons



To add UHF channels, see page 16.

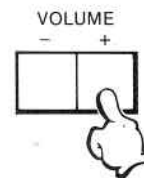


## Volume/picture contrast adjustment

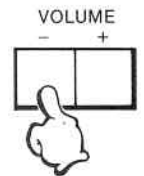


### Adjust the volume

To increase the volume

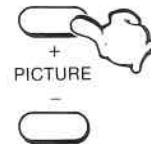


To decrease the volume

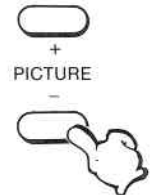


### Adjust the picture contrast

To increase the picture contrast



To decrease the picture contrast



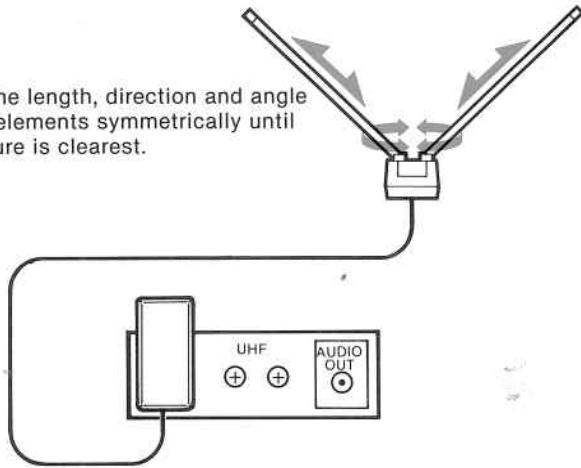
Position of controls after the power is turned off and turned on again.

|                  | With POWER switch<br>on the TV or Com-<br>mander | With MASTER switch    |
|------------------|--|-----------------------|
| Channel          | Memorized  | Memorized             |
| Volume           |  | Factory-preset levels |
| Picture contrast |  |                       |

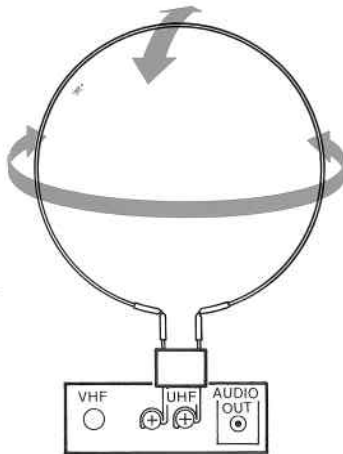
## Indoor antenna adjustment

For VHF reception, use the VHF telescopic dipole antenna.

Adjust the length, direction and angle of both elements symmetrically until the picture is clearest.



For UHF reception, raise the UHF loop antenna, and swing the loop back and forth and/or sideways until the picture is clearest.



### Note

If satisfactory results cannot be obtained with the built-in indoor antennas, install external antennas as described on page 18.

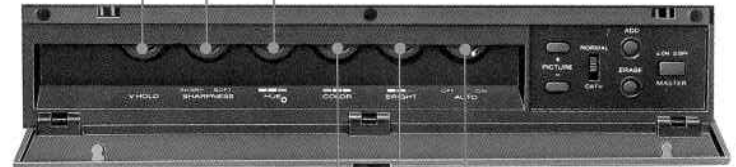
## PICTURE ADJUSTMENT

Satisfactory results will usually be obtained with the controls set at the following positions. If any adjustments are necessary, adjust the required controls as described in the "Adjustment Guide" according to the picture conditions.

**V HOLD control:** at the position where picture does not roll (probably near the center position)

**SHARPNESS control:** at the center detent position

**HUE control:** at the center position




**COLOR control:** at the center position

**BRIGHT control:** at the center detent position


**AUTO switch:** at the ON position  
(Color intensity and hue of the picture are adjusted automatically to the factory-preset values, but may be further adjusted slightly with the COLOR and HUE controls.)

# Adjustment Guide

If the picture rolls vertically



➔



V HOLD



Good picture

Skin tones not natural

(With the AUTO switch at OFF, the HUE and COLOR controls have a wider adjustment range.)



greenish skin




➔




HUE

purplish skin



➔



HUE

too vivid




➔




COLOR

too pale




➔




COLOR

Too bright or too dark picture

too bright



➔



BRIGHT

too dark




➔




BRIGHT

Too sharp or too soft picture

too sharp or snowy picture



➔



SHARPNESS

too soft



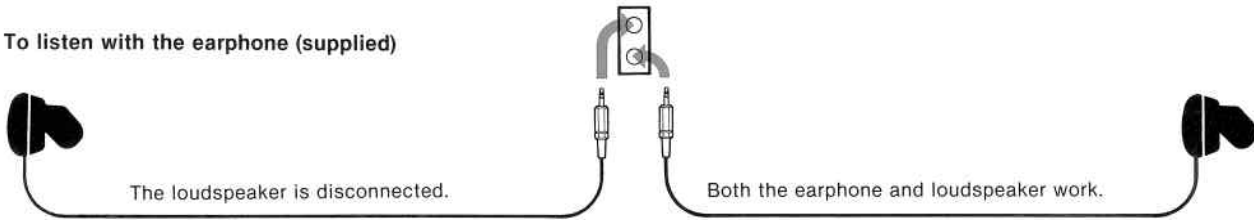
➔



SHARPNESS

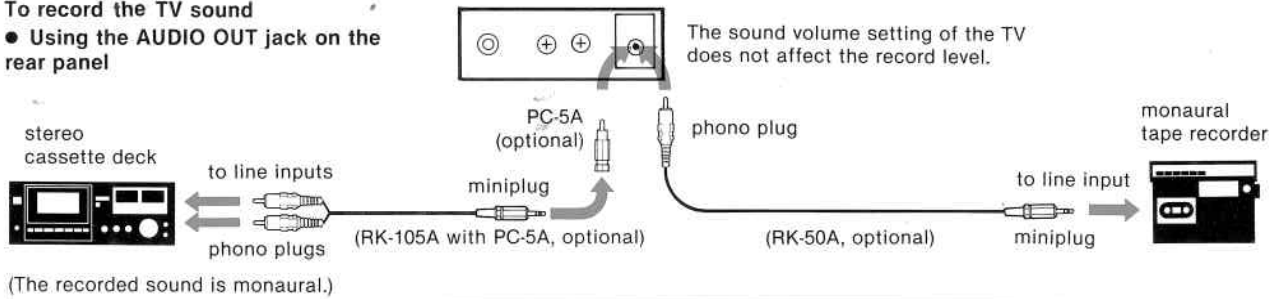
## INSTRUCTIONS FOR ADDITIONAL USES

### To listen with the earphone (supplied)

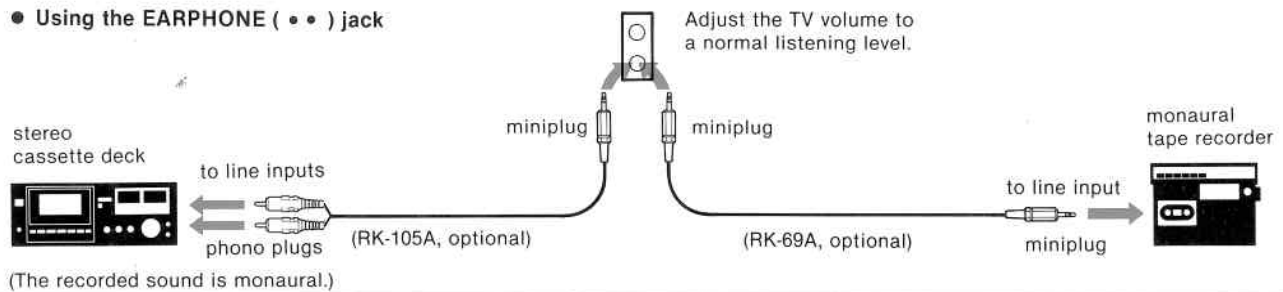


### To record the TV sound

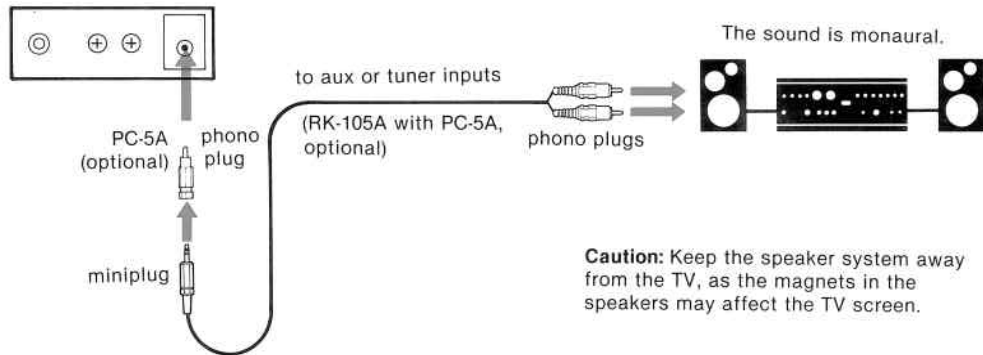
- Using the AUDIO OUT jack on the rear panel



- Using the EARPHONE ( • • ) jack



### To listen through a stereo system

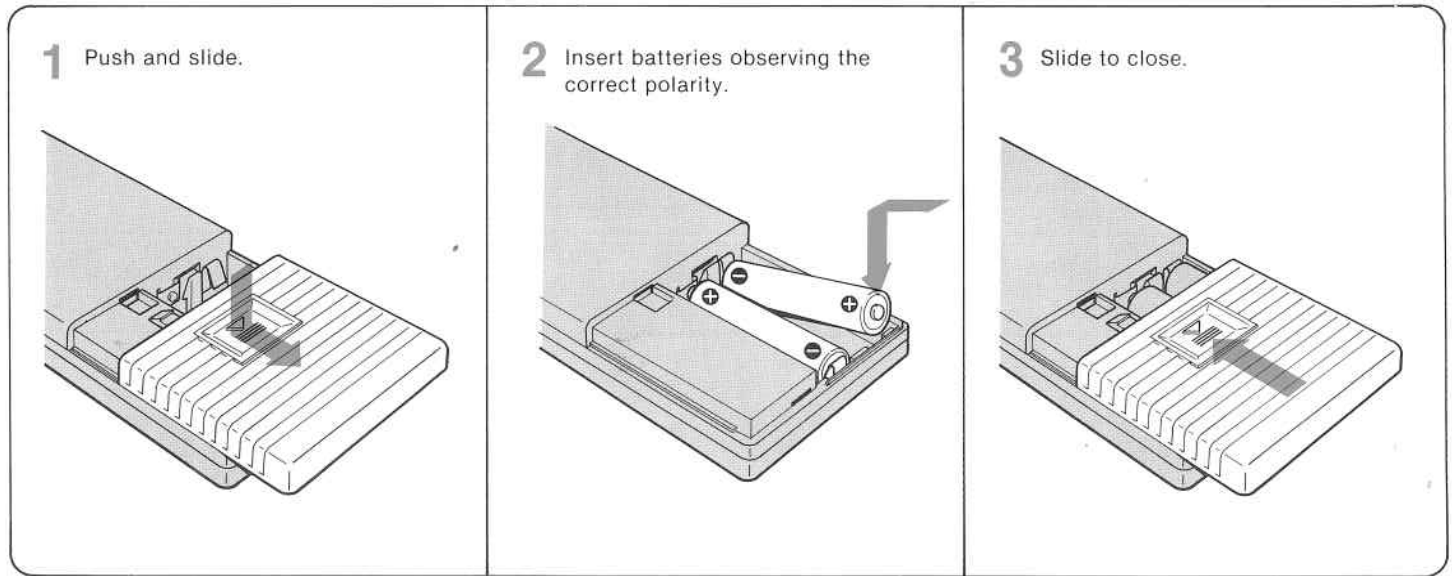




# REMOTE CONTROL OPERATION

## BATTERY INSTALLATION

The Sony RM-707 Remote Commander operates on two supplied AA batteries (IEC designation R6).



## FUNCTION OF THE BUTTONS ON THE REMOTE COMMANDER

### Buttons which have no equivalent on the TV

#### Output indicator

Indicates when the Remote Commander is operating. If the indicator does not light when any of the function buttons are pressed, battery replacement is required.

#### MUTING button

To mute the sound immediately, press this button. Sound muting will be released when the MUTING button is pressed again, the VOLUME + button is pressed, or the TV is turned off and on again.

#### Channel number buttons

Channels are selected directly by pressing two number buttons. First press the button corresponding to the tens-digit number of the channel, then press the button corresponding to the single-digit number. (For channels 2 through 9, press the 0 button first.)

#### CLEAR button

Press this button to set the display to "—", if you select an incorrect tens-digit or forget to first select 0 for channels 2 through 9. When this button is pressed, the picture will disappear and the sound will go off until the channel number is correctly selected.

### Transmitter

Point toward the remote control detector on the TV.

### Buttons whose functions are the same as the TV buttons

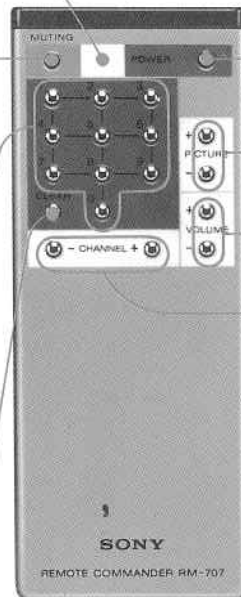
#### POWER switch

#### PICTURE buttons

#### VOLUME buttons

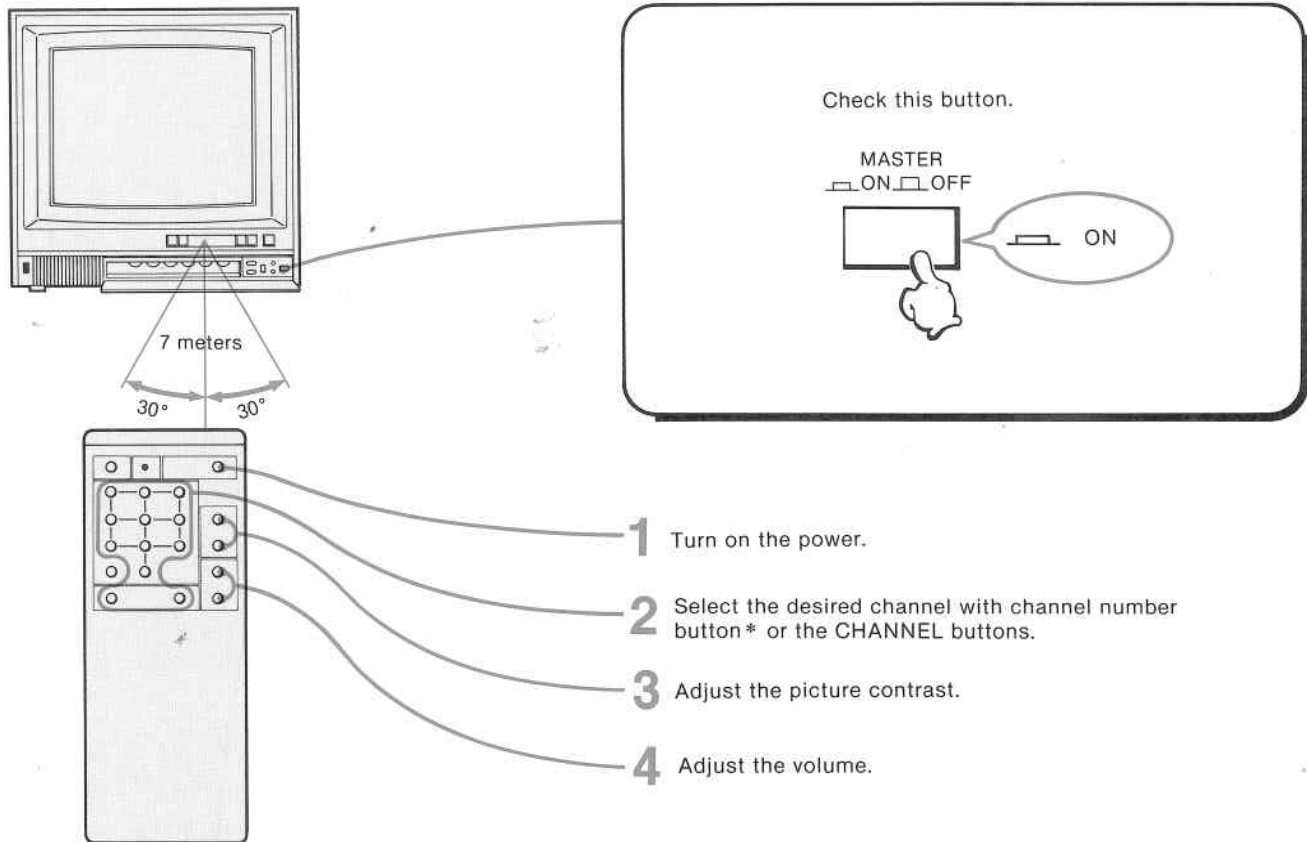
The upper button corresponds to the right button on the TV, and the lower one corresponds to the left one on the TV.

#### CHANNEL scan buttons

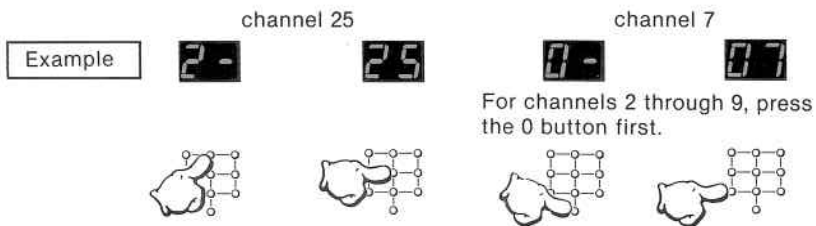


## OPERATION OF THE REMOTE COMMANDER

Once the MASTER button has been switched on, you can remotely control the TV with this Commander up to 7 meters (23 feet) away from the TV and within the angle illustrated below.

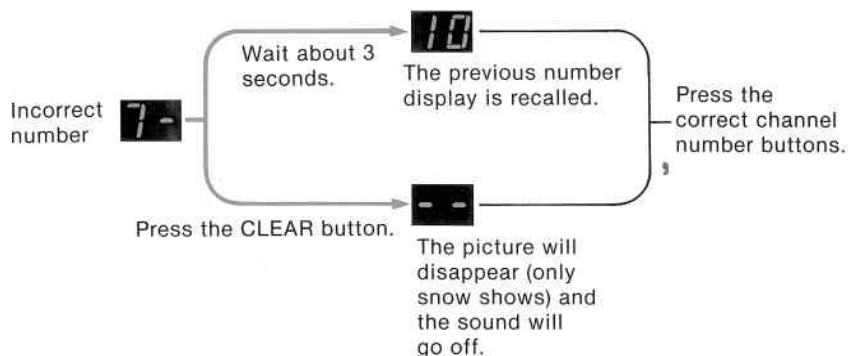


\*Channel selection with the channel number buttons



### Example

When you wish to select channel 7, and you forgot to press the 0 button first.



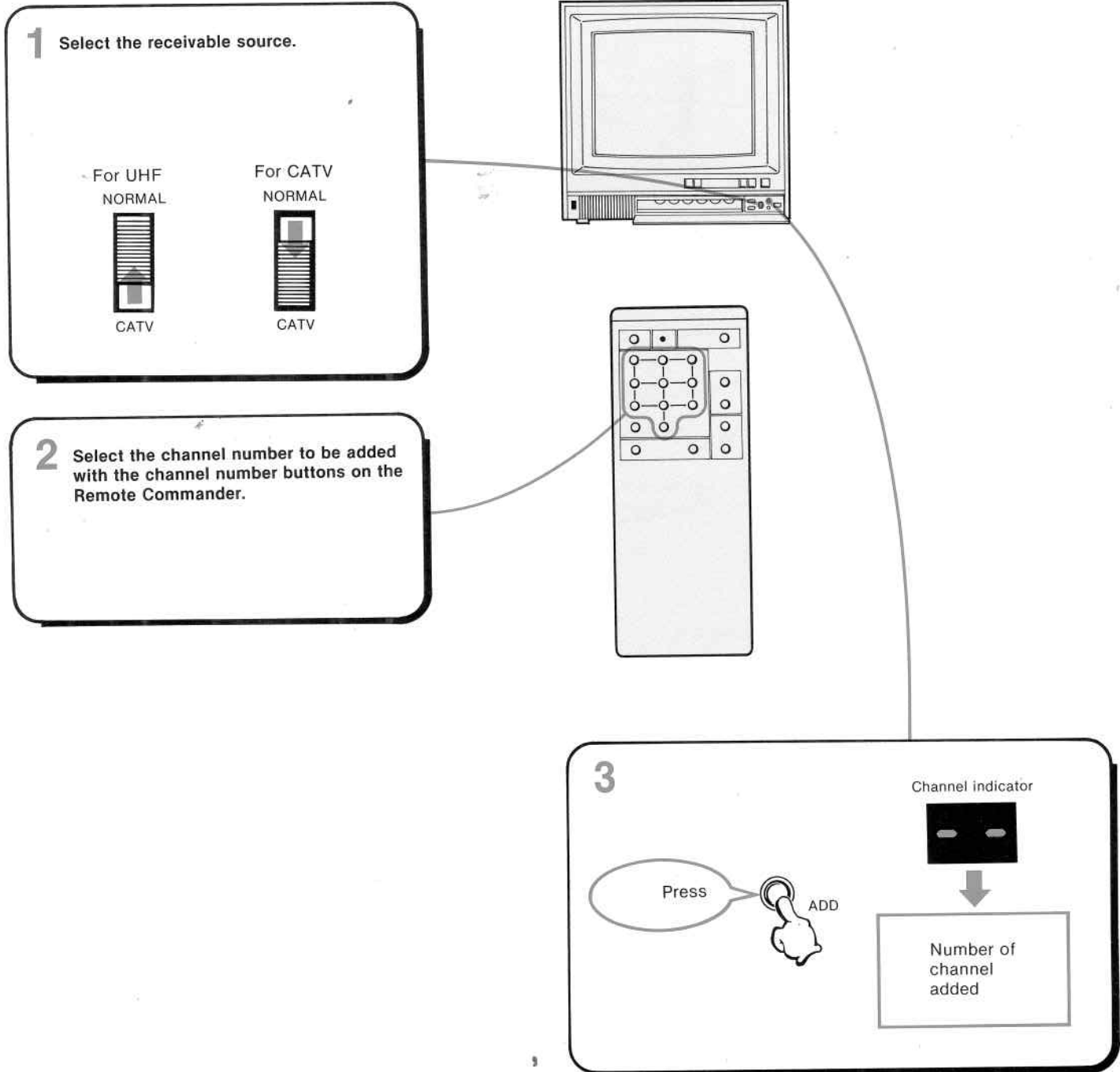
### Notes on the Remote Commander

- In normal operation, battery life is up to half a year. When the battery is exhausted, the Remote Commander will not operate the TV properly. In this case, replace the batteries with new ones.
- When the Commander is not used for a long period of time, remove the batteries to avoid damage from possible battery leakage.
- Keep the Commander away from extremely hot or humid places.
- Avoid dropping any foreign objects into the Commander case when replacing batteries.
- The RM-707 Commander may be used only with those Sony color TV models indicated in the operating instructions.

# CHANNEL PRESETTING — How to preset the channels to be scanned with the CHANNEL scan buttons.

Your TV has been set at the factory to receive VHF channels 2 through 13 in sequence when you press the CHANNEL scan buttons. You can add UHF or CATV channels and erase inactive VHF channels so that only the channels available in your area will appear in the sequence.

## TO ADD UHF OR CATV CHANNELS



Repeat the above for all the channels to be added. The channels will be entered in numerical sequence regardless of the adding sequence.

If you have any problem on CATV channel presetting, consult the CATV company in your area.



## TO ERASE INACTIVE CHANNELS

1 Select the receivable source.

for UHF  
NORMAL



CATV

for CATV  
NORMAL

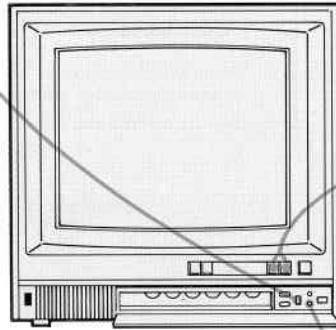


CATV

for VHF  
Either  
position will  
do.

2

Select the channel to be erased.



3

Press



Channel indicator



Number of  
channel  
erased

Repeat the above for all  
the channels to be erased.

**To add once-erased channels again**  
See "To add UHF or CATV channels" on page 16.

**Operating note:** It is not possible to erase a UHF channel from the memory and retain the CATV channel of the same number in the memory, or vice versa.

If either the UHF channel or the CATV channel of the same number is to be kept in the memory, do not erase the number.

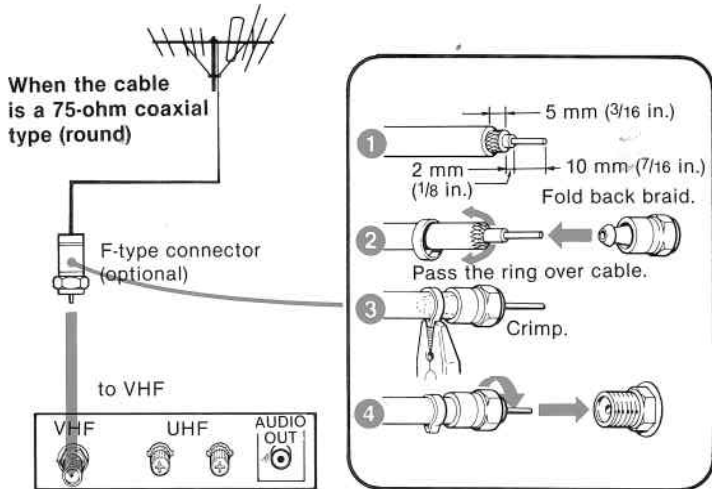
# EXTERNAL ANTENNA/CABLE CONNECTION

If your local signal is strong, an indoor antenna may be sufficient to obtain a clear picture.

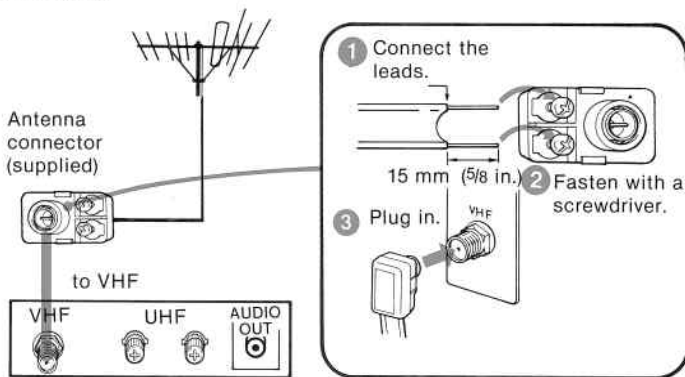
The use of an external antenna is recommended especially in difficult reception areas (inside steel-frame buildings, in mountainous areas, or at great distances from the transmitter).

## VHF antenna

Pull out the antenna connector from the VHF antenna terminal, thus disconnecting the VHF telescopic dipole antenna. Use the antenna connector for 300-ohm ribbon type lead-in connection.

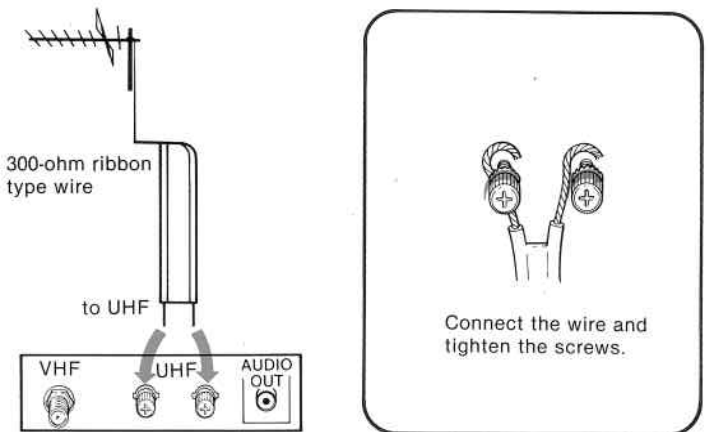


**When the cable is a 300-ohm ribbon type lead-in (flat)**



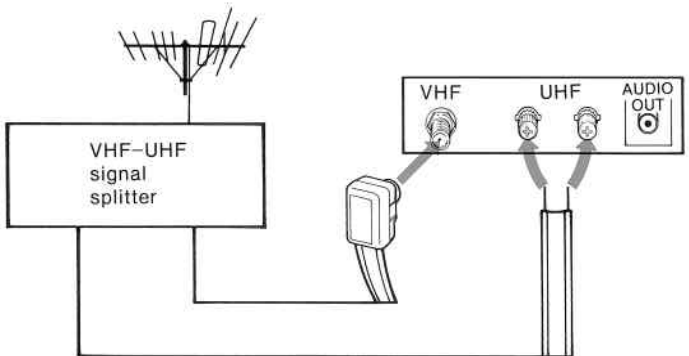
## UHF antenna

Loosen the screws on the UHF antenna terminals, and pull out the lugs of the UHF loop antenna.



## Combination VHF/UHF antenna

Most combination antennas already have a signal splitter. If you need a splitter or a complete antenna system, see your Sony dealer or a qualified technician.



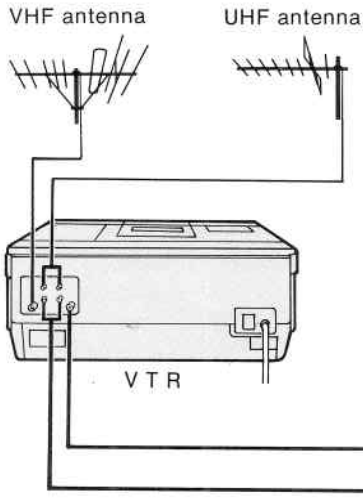
## CATV cable

Connect the CATV coaxial cable to the VHF antenna terminal. We recommend that you consult your cable TV company to make sure that the cable is properly connected.

# VIEWING VTR PLAYBACK

To view the playback picture from a Sony Betamax videocassette recorder (or other VTR) equipped with an rf output terminal.

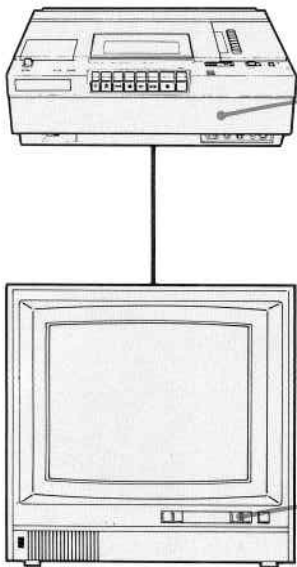
## CONNECTION



- 1 Connect a suitable VHF and UHF or combination antenna to the recorder.
- 2 Connect the rf output of the recorder to the VHF antenna terminal of the TV, and the UHF OUT terminals of the recorder to the UHF terminals of the TV.

For details, refer to the instructions furnished with the recorder.

## OPERATION



### Adjusting the recorder

- 1 Set the rf unit channel selector to channel 3 or 4, whichever channel is not active in your area.
- 2 Set the recorder to the playback mode. (If you do not have a pre-recorded tape, set the TV/VTR selector to VTR and select an active channel with its channel-select button on the recorder.)  
The signal from the recorder will be fed to the TV.

### Adjusting the TV




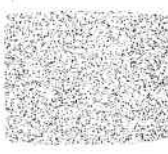




- 3 Select VHF channel 3 or 4 (the operation channel of the rf unit built into the recorder) by pressing the 0 number button and 3 or 4 number button on the Remote Commander, or pressing the CHANNEL + or - button.  
The playback picture will then appear.

### Operating note

If the inactive 3 or 4 channel has been erased as described before, the playback picture cannot be selected with the CHANNEL + or - button. However, the desired channel selection can again be made as usual with the channel number buttons on the Remote Commander.

# CHECKING THE SET BY YOURSELF

Many apparent malfunctions may be caused by slight misadjustments of the regular controls or some other equally simple cause. If any difficulty arises in the operation of your set, first check through this illustrated list of symptoms and corrections. Should the difficulty persist, unplug the set and contact your Sony dealer.

| SYMPTOM  | CORRECTION  |
|--|---|
|  <p><b>no picture (screen not lit), no sound</b></p>           | <ul style="list-style-type: none"> <li>● Plug the set into a working outlet.</li> <li>● Press the MASTER and the POWER switches.</li> </ul>   |
|  <p><b>no picture (screen not lit), but good sound</b></p>     | <ul style="list-style-type: none"> <li>● Press the PICTURE + button.</li> <li>● Turn the BRIGHT control clockwise.</li> </ul>   |
|  <p><b>good picture but no sound</b></p>                       | <ul style="list-style-type: none"> <li>● Unplug the earphone from the EARPHONE jack [•].</li> <li>● Press the VOLUME + button.</li> <li>● Release the sound muting by pressing the MUTING button or turning the TV off and on again.</li> </ul>                       |
|  <p><b>blank snowy screen, no sound</b></p>                   | <ul style="list-style-type: none"> <li>● When "--" is displayed in the channel indicator (the CLEAR button has been pressed), select the channel number correctly or turn off the TV momentarily.</li> </ul>  |
|  <p><b>no picture, no sound, but snow and noise only</b></p> | <ul style="list-style-type: none"> <li>● Connect the antenna properly.</li> <li>● Adjust the indoor antenna.</li> <li>● Check the outdoor antenna.</li> <li>● Check that a correct channel is selected.</li> <li>● Check the NORMAL/CATV selector setting.</li> </ul> |
|  <p><b>no color</b></p>                                      | <ul style="list-style-type: none"> <li>● Check that the AUTO switch is set to ON.</li> <li>● Check that the COLOR control is not turned fully counterclockwise.</li> </ul>  |
|  <p><b>dotted lines or stripes</b></p>                       | <ul style="list-style-type: none"> <li>● Often caused by interference from autos, neon signs, hair dryers, electric razors, etc. Try adjusting the antenna for minimum interference.</li> </ul>   |
|  <p><b>double images or "ghosts"</b></p>                     | <ul style="list-style-type: none"> <li>● Reflections from nearby mountains or buildings often cause this problem. In such cases, a highly directional outdoor antenna may improve the picture.</li> </ul>   |

# SPECIFICATIONS

## KV-1747R

Television system American TV standards  
 Channel coverage VHF channels 2 through 13 ✓  
 UHF channels 14 through 83 ✓  
 CATV mid-band channels A-2, A-1, A through I  
 super-band channels J through W

Picture tube Trinitron tube  
 17-inch picture measured diagonally, 90-degree deflection

Antenna VHF telescopic dipole antenna  
 UHF loop antenna  
 75-ohm antenna terminal for VHF  
 300-ohm antenna terminals for UHF

Speaker Approx. 9 × 5 cm (3<sup>5</sup>/<sub>8</sub> × 2 inches)

Power requirements 120 V ac, 60 Hz

Power consumption 110 W (max.), 73 W (average)  
 2.7 W (in standby condition)

Dimensions Approx. 484.5 × 473.5 × 464 mm (w/h/d)  
 (19<sup>1</sup>/<sub>8</sub> × 18<sup>3</sup>/<sub>4</sub> × 18<sup>3</sup>/<sub>8</sub> inches)

Weight Approx. 23.4 kg (51 lb 9 oz)

Accessories supplied Remote Commander RM-707  
 Earphone

## Remote Commander RM-707

Remote control system infrared control

Power requirements 3 V dc  
 Battery size AA × 2  
 (IEC Battery Designation R6)

Dimensions Approx. 60 × 20 × 150 mm (w/h/d)  
 (2<sup>3</sup>/<sub>8</sub> × 3<sup>1</sup>/<sub>4</sub> × 6 inches)

Weight Approx. 134 g (4.7 oz)  
 incl. batteries

Accessory supplied Battery size AA 2 pcs.

Design and specifications subject to change without notice.