

**SONY®**

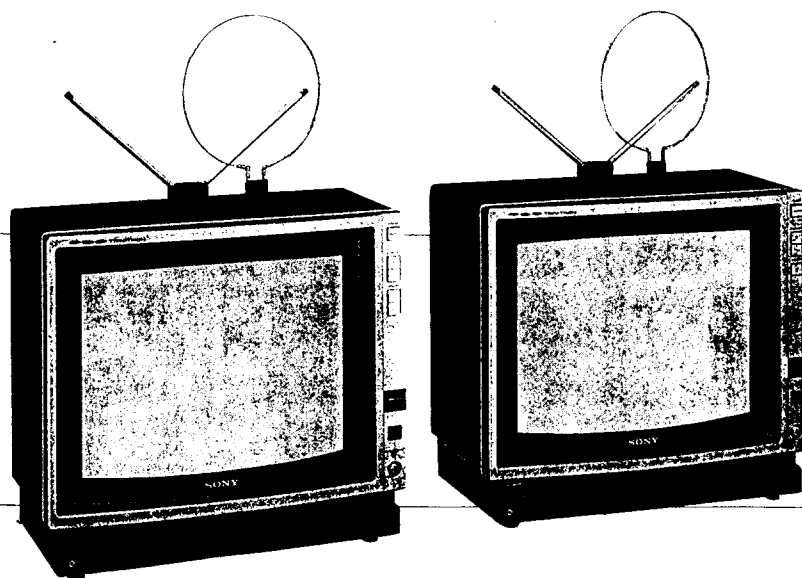
Do not remove

TRINITRON® COLOR TV

# KV-1354R/1355R

## OPERATING INSTRUCTIONS

Welcome to the advanced world of Sony TV. For the best results and the utmost satisfaction from your new set, please read this manual thoroughly, and retain it for future reference.



# OWNER'S RECORD

The model and serial numbers of your set are located at the rear of the set. Both of these are required to facilitate prompt servicing of your set should that become necessary. For quick future reference, please enter the serial number below, as well as the model number, if it has not already been entered.

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

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This instruction manual covers the KV-1354R and KV-1355R. They are different in appearance but their operation is the same.

## 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

## On safety

- 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 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.

## On 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.

## On cleaning

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 benzene, or abrasive cleansers since these will damage the cabinet. As a safety precaution, unplug the set before cleaning it.

## On repacking

Do not throw away the carton and packing materials. They make an ideal container in which to transport the set. When shipping the set to another location, repack it as it was originally packed at the factory.

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

# FEATURES

Remote control color television with a multi-function Remote Commander

Capable of preset tuning of up to 14 channels — either regular VHF or UHF broadcasts or for monitoring the playback of a video cassette recorder

- Easy selection of any channel of your favorite preset channels, using the channel select buttons on the Remote Commander or the CHANNEL scan buttons

- The sleep function automatically turns the set off after one hour, allowing you to drop off to sleep without having to worry about turning the set off.

- The Hit\* connector provided on the front allows easy connection to a video game, a microcomputer or a portable video cassette recorder. Simply press the Hit button to use the TV as a display terminal for the connected equipment.

\* Home Interface Terminal

- Built-in automatic fine tuning and color circuits

- ECONOQUICK™, energy-saving quick-start picture system

## TRINITRON COLOR SYSTEM

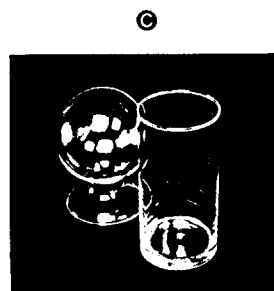
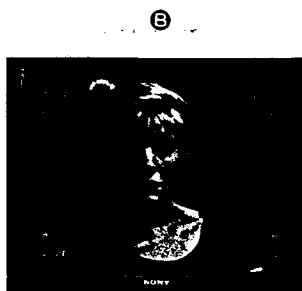
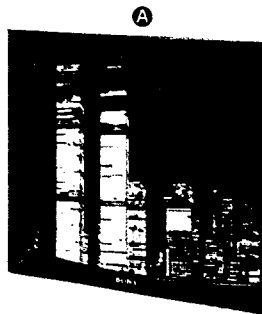
The Sony Color TV employs the unique Trinitron Color System. A product of intensive engineering research, the Trinitron Color System provides a brighter and sharper picture, with simplified and more accurate service adjustments.

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).

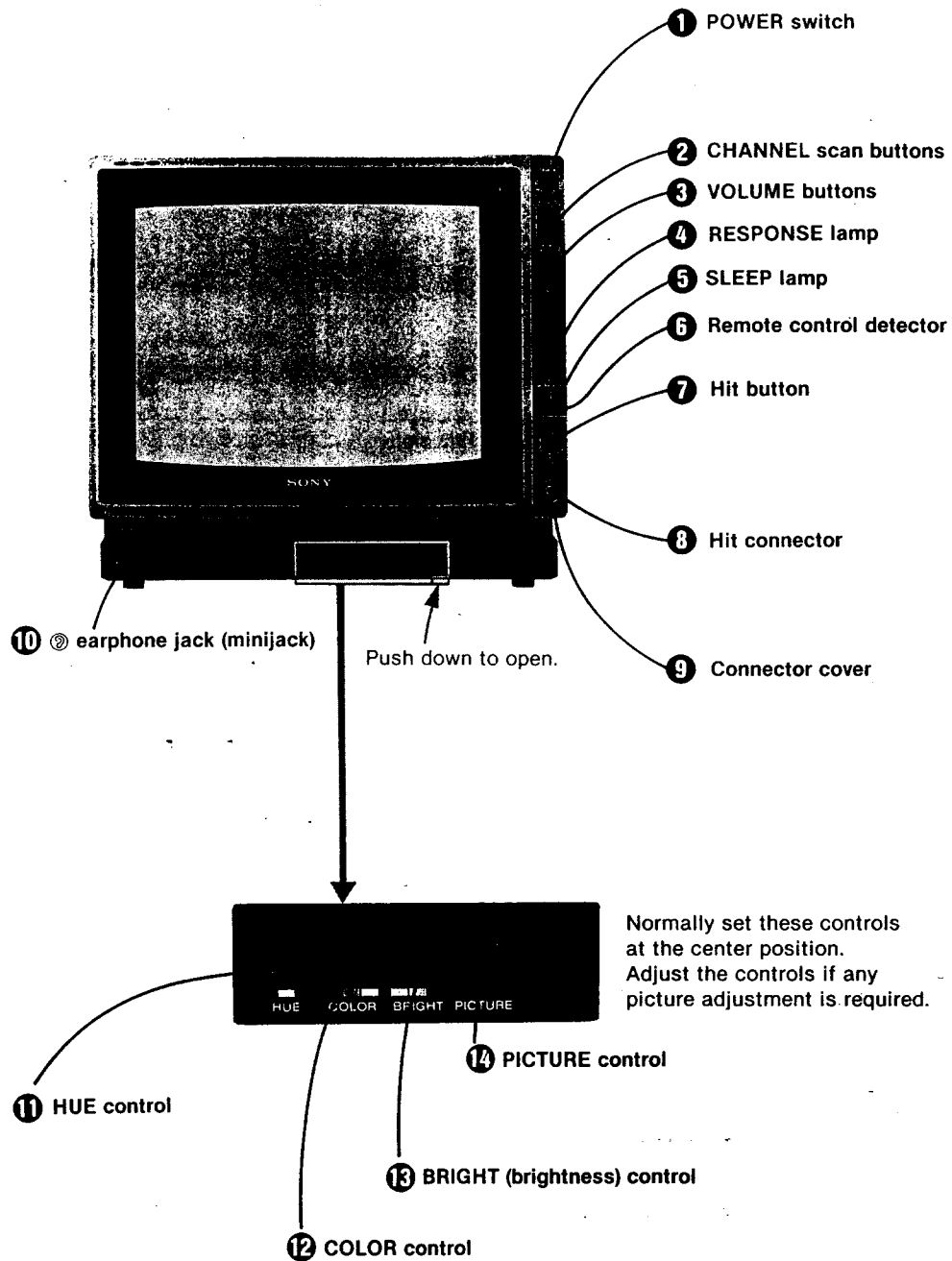
Guard Grille for a high contrast, brighter picture, without color spills

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

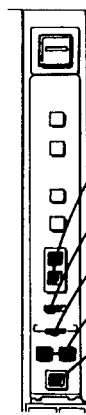
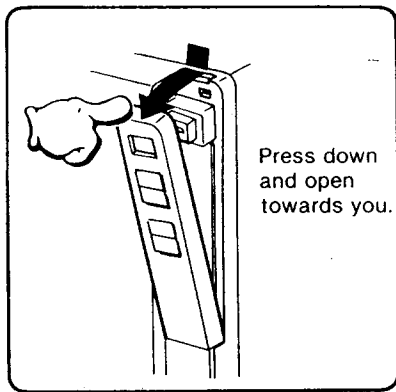


A and B are simulated pictures.

# LOCATION AND FUNCTION OF CONTROLS



### Presetting compartment



CHANNEL NUMBER buttons

CHANNEL SET switch

BAND SELECT switch

TUNING buttons

FINE (fine tuning) button

Use these switches and buttons to preset channels.  
See page 12.

#### ❶ POWER switch

Depress to turn on the TV. Press again to turn it off.  
Keep the switch depressed to be able to operate the TV with the Remote Commander.

#### ❷ CHANNEL scan buttons

Press + for higher-numbered channels, or – for lower-numbered channels.

The selected channel number will appear on the screen.

#### ❸ VOLUME buttons

Press + to increase the volume and – to decrease it.

#### ❹ RESPONSE lamp

Blinks when the + or – VOLUME button is pressed. At the lowest or the highest volume, or while the sound is muted, this lamp lights steadily.

#### ❺ SLEEP lamp

Lights when the SLEEP button on the Remote Commander is pressed.

#### ❻ Remote control detector

#### ❼ Hit button

To view the signal from the Hit connector, press this button. The indication "Hit" will appear on the screen. To adjust the Hit button to match the equipment to be connected, use the controls in the presetting compartment. For the presetting procedure, see page 12.

#### ❽ Hit connector (Auxiliary RF input, VHF ch. 2 – 6, F-type)

Connect an RF output of a home video game, a microcomputer, or a portable video cassette recorder to this connector.

#### ❾ Connector cover

Remove this cover so that the connector fits firmly, if required.

#### ❿ ⓫ earphone jack (minijack)

For private listening, insert an earphone plug into the jack. This disconnects the loudspeaker. Adjust the TV volume to a normal listening level.

#### ⓫ HUE control

Turn clockwise for greenish, and counterclockwise for purplish skin tones.

#### ⓫ COLOR control

Turn clockwise for more color, and counterclockwise for less color.

#### ⓫ BRIGHT (brightness) control

Turn clockwise for more brightness, and counterclockwise for less brightness.

#### ⓫ PICTURE control

Turn clockwise to increase contrast to a vivid color, and counterclockwise to decrease contrast to a pale color.

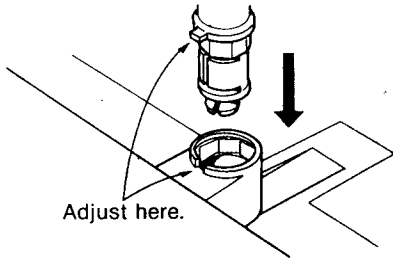
# INDOOR ANTENNA CONNECTION

Complete the antenna connection, and then plug the set to the wall outlet.

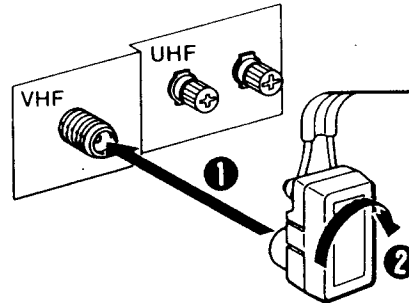
## For VHF reception

Use the supplied telescopic dipole antenna.

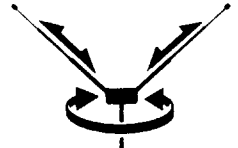
- 1 Insert the projection into the antenna receptacle on the set.



- 2 Plug the antenna connector attached to the antenna into the VHF antenna terminal.

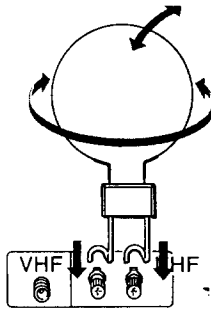


Adjust the length, direction and angle of both elements symmetrically until the picture is clearest.



## For UHF reception

Use the supplied UHF loop antenna. Connect the lugs to the UHF antenna terminals and fasten with a screwdriver.

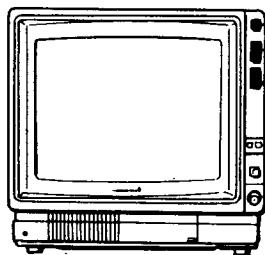


Swing the loop back and forth and/or sideways until the picture is clearest.

### NOTE

If satisfactory results cannot be obtained with the supplied indoor antenna, install external antennas referring to page 16.

# NORMAL TV OPERATION (PANEL OPERATION)



**1** Depress the POWER switch.  
The picture will appear.

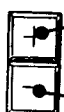
**3** Adjust the volume by pressing the + or - VOLUME button.



to increase the volume

to decrease the volume

**2** Select the desired channel by pressing the + or - CHANNEL scan button\*.

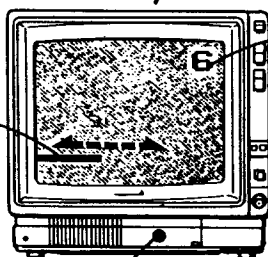


for higher-numbered channels

for lower-numbered channels

The bar indication will appear on the screen. As the volume increases, the bar will be longer. This indication will disappear in a few seconds after the adjustment is completed.

ATTENTION !!



The selected channel number appears on the screen.

To extinguish the channel number, press the CHANNEL DISPLAY button on the Remote Commander. Then, each time you press the CHANNEL scan buttons to change the channel, the indication on the screen will disappear after a few seconds.

**4** Adjust the picture to your preference.

To turn the TV off, press the POWER switch.

\* This TV is preset at the factory to receive VHF channels 2 through 13 and two UHF channels with the CHANNEL scan buttons. To add UHF channels or to skip inactive channels, see pages 12 - 14.

# FRONT PANEL HIT CONNECTOR USAGE

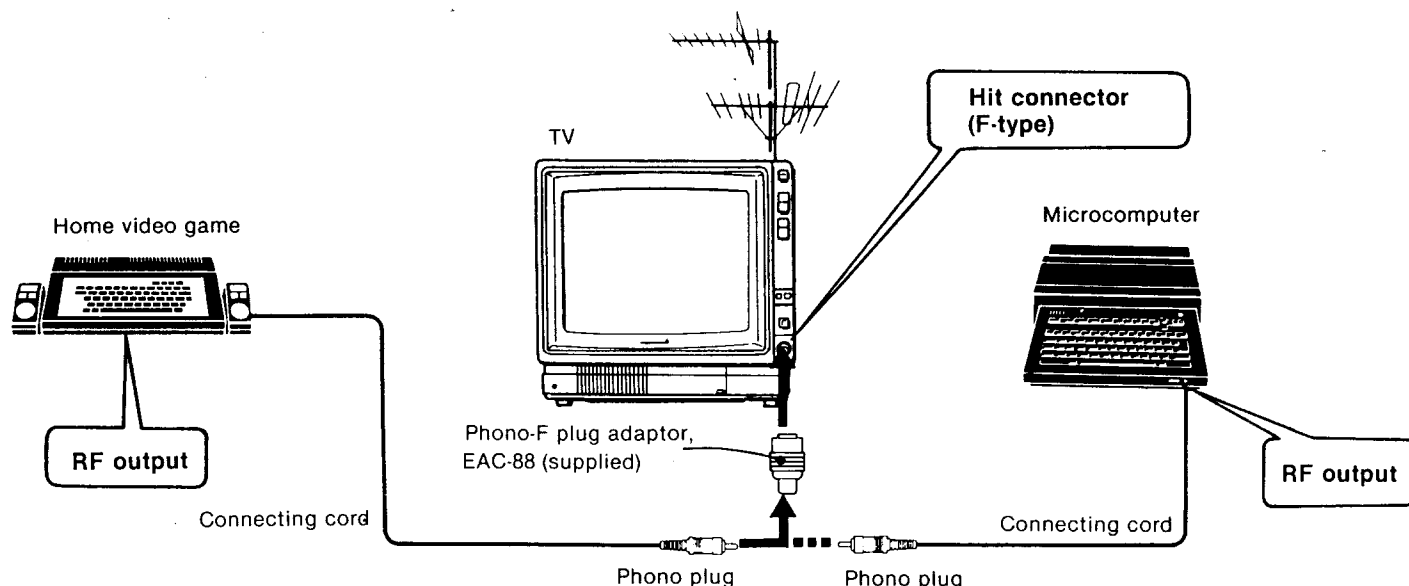
## What is the Hit connector?

Hit is an abbreviation of Home Interface Terminal. The Hit connector is an RF input for VHF ch. 2-6, (F-type) which may be used for the easy connection to a home video game, a portable VCR, or a microcomputer. To view the picture of the connected equipment, simply press the adjusted Hit button. You can enjoy the TV set as a display terminal for the connected equipment.

## Caution

Unplug the TV and other equipment from the wall outlet before making the connections.

## CONNECTION OF A HOME VIDEO GAME OR MICROCOMPUTER

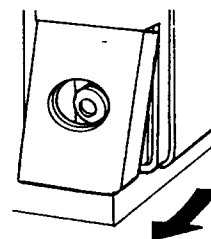


In case that the connecting cord has exposed wires rather than a plug, use an F-type connector. For details on the connection, refer to the instructions of the home video game or the microcomputer.

## NOTES

- The Hit connector is available for equipment that can deliver RF signal between VHF channels 2 through 6.
- If the microcomputer has been placed on or too close to the TV set, noise will appear on the screen. Keep the microcomputer an appropriate distance away so that the picture appears clear.
- The connection of a microcomputer sometimes causes distorted and noisy pictures. In this case, readjust the controls located in the front panel. When you go back to watching a TV program, readjust the controls again.
- When you go back to watching a TV program, simply select the channel you want to watch. If the picture is distorted, turn off the equipment connected.
- The picture quality obtained by connection to the Hit connector on the front of the TV and to the antenna terminal on the back is almost the same.
- While watching the TV, when the RF output of equipment connected to the Hit connector is too close to TV broadcasting frequencies, interference will occur. In this case, readjust the equipment's output frequency.

- If the F-type connector does not fit the Hit connector well, remove the connector cover.



- Keep a VCR away from the TV, if the display or sound is affected.

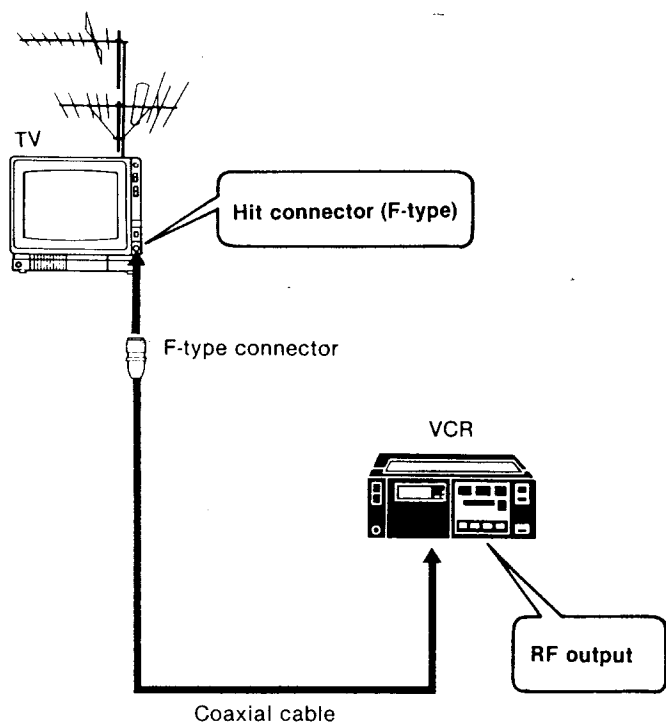
## CONNECTION OF A FULL-SIZE VCR

Connect a VCR to the antenna terminal on the TV's back, and connect the outdoor antenna only to the VCR. For details on the connections, see the instructions of the VCR.

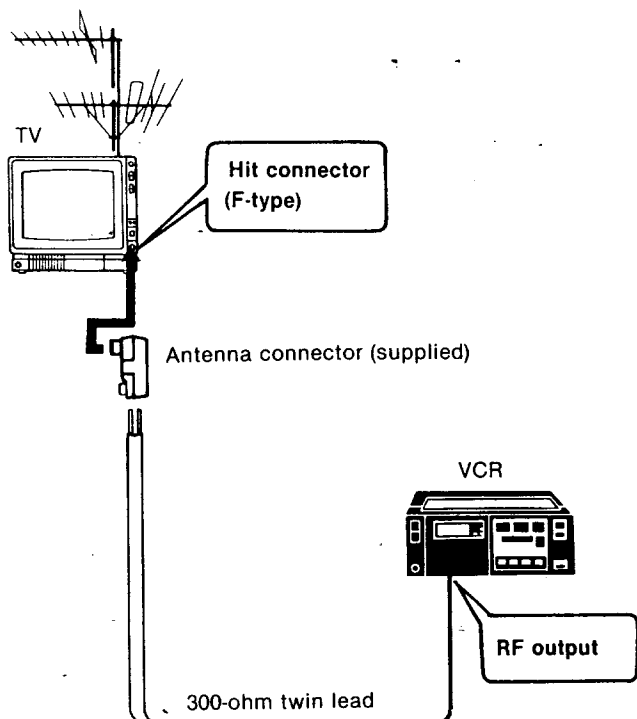


## CONNECTION OF A PORTABLE VCR

### Coaxial cable



### 300-ohm twin lead

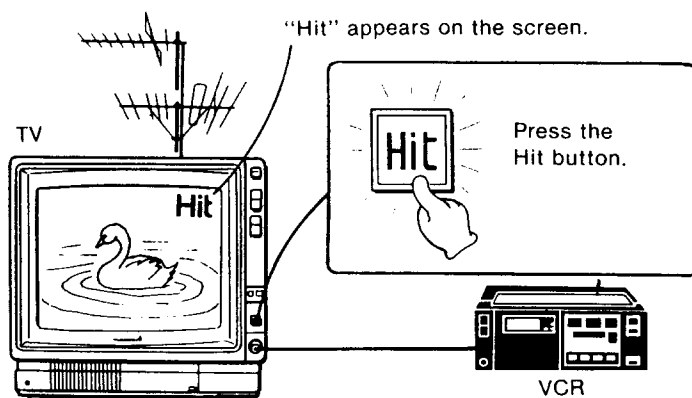


To record the TV program, connect the tuner timer unit (optional) to the antenna terminal on the TV's back panel instead of the Hit connector. For details on the connection, refer to the instructions of the portable VCR or the tuner timer unit.

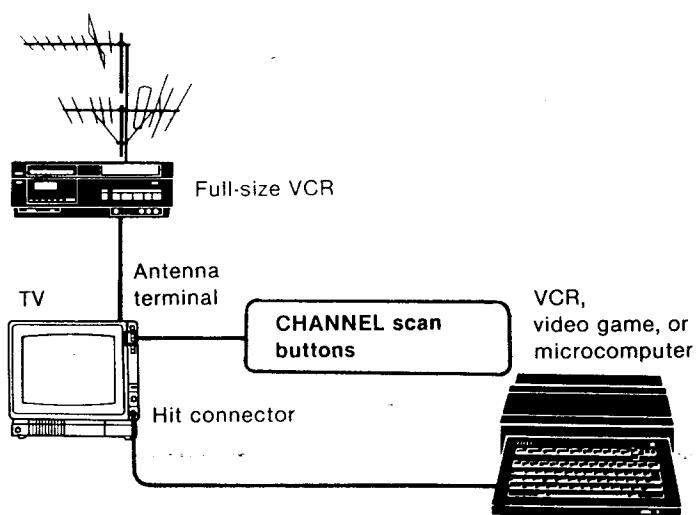
## TO DISPLAY PICTURES FROM EQUIPMENT CONNECTED TO THE HIT CONNECTOR

Simply press the Hit button. The Hit button has been preadjusted to receive VHF channel 3. It is necessary to reset the channel in accordance to the type of equipment (RF output) to be connected. To readjust the channel, follow the instructions described in the "Channel presetting procedure" on page 13.

You can enjoy the pictures of a home video game or microcomputer which is connected to the Hit connector on the front panel, or relay to pictures from your portable VCR.



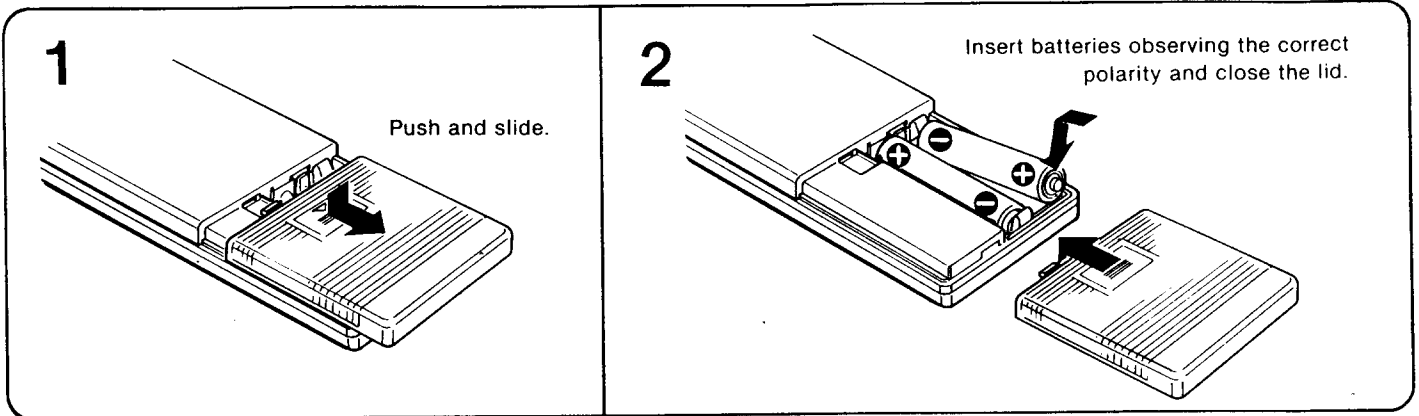
When you want to watch TV programs or playback picture from the VCR connected to the antenna terminal on the back, release the Hit button and press the + or - CHANNEL scan button. If the picture is distorted, turn off the equipment connected to the Hit connector.



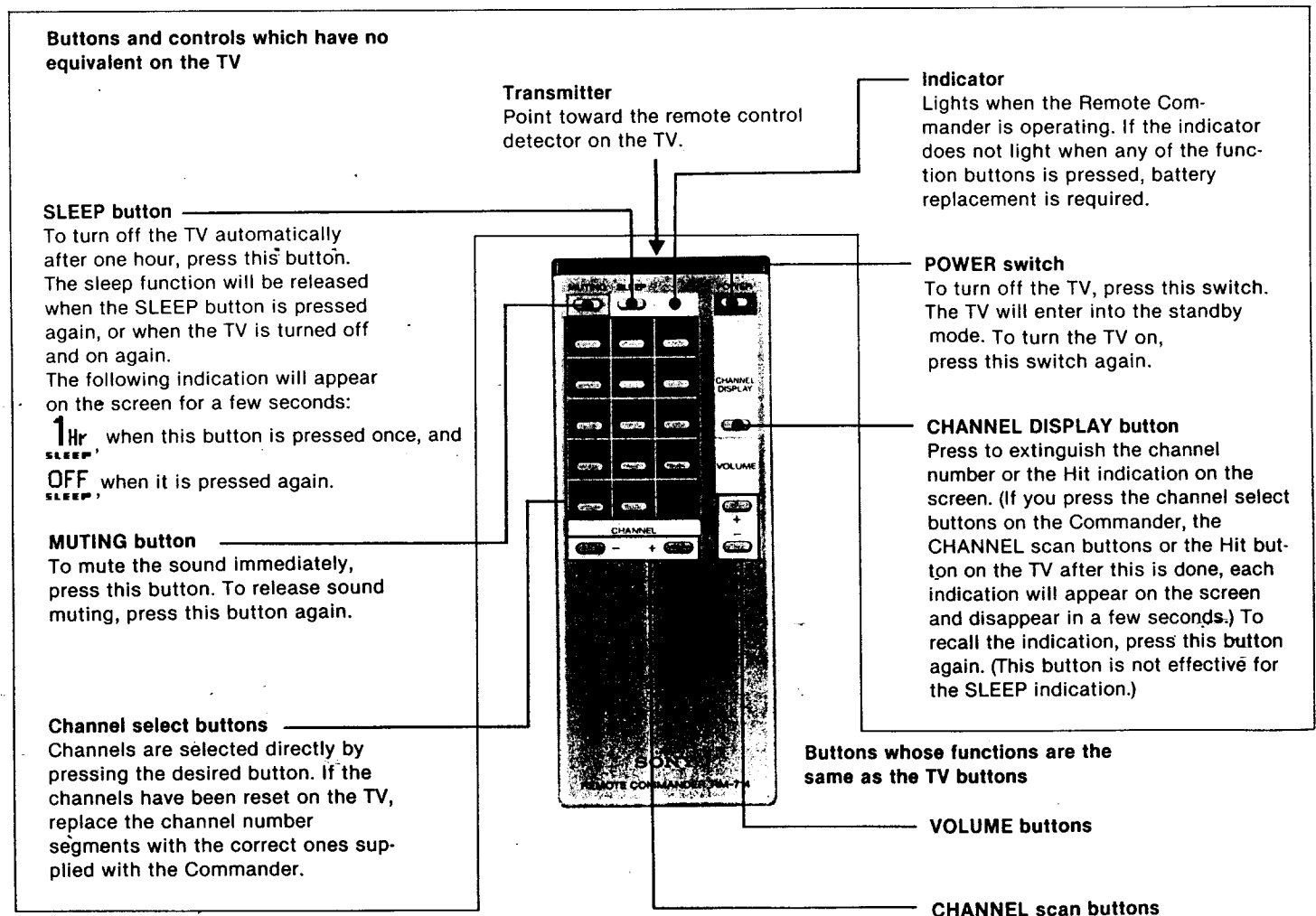
# REMOTE CONTROL OPERATION

## BATTERY INSTALLATION

The Sony RM-714 Remote Commander operates on two supplied AA batteries (IEC designation R6).

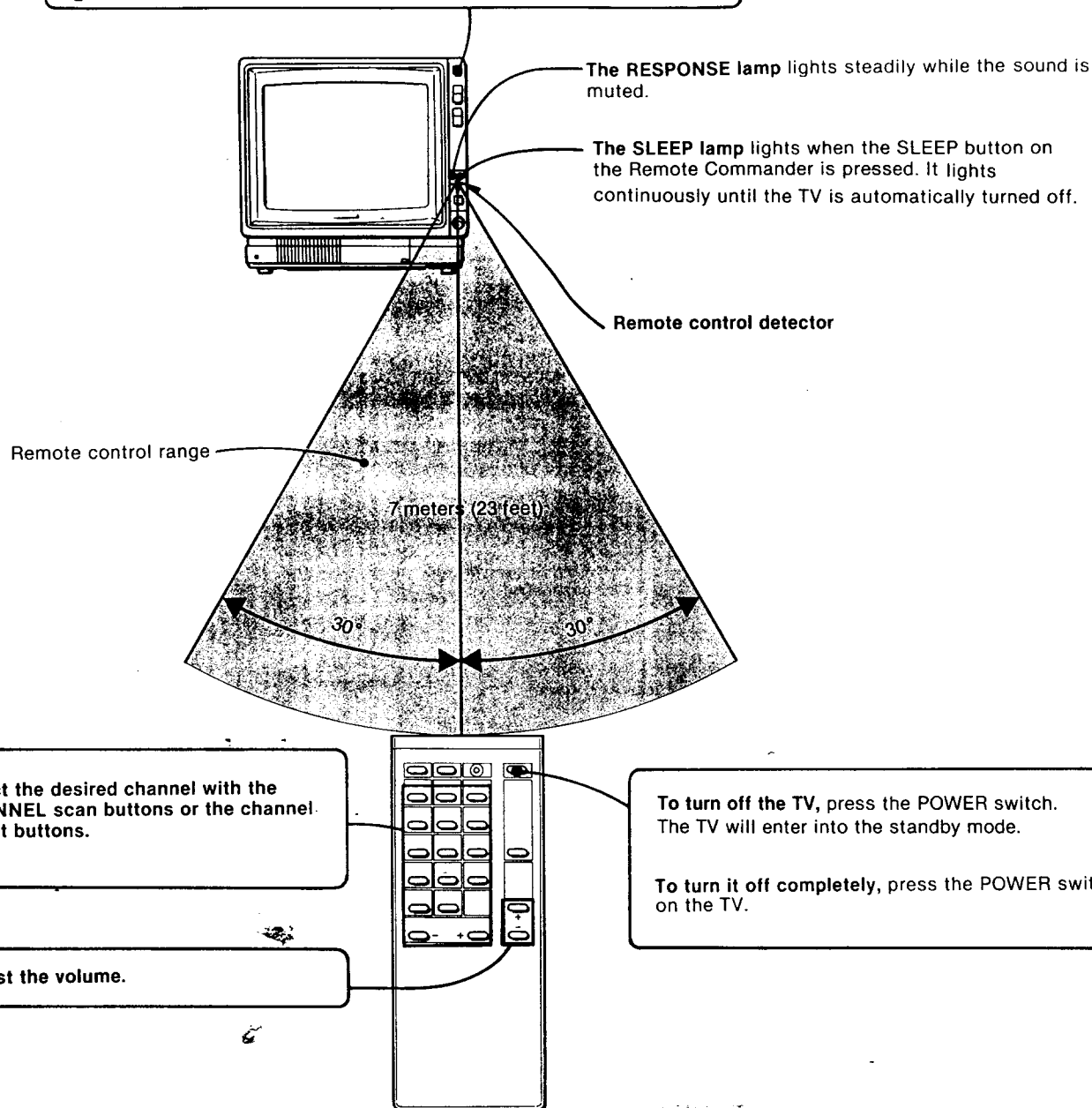


## FUNCTION OF BUTTONS ON THE REMOTE COMMANDER



## OPERATION

**1** Turn on the power with the POWER switch.



the standby mode that is on/off during a power interruption, will resume when the power is restored.

### Notes on the Remote Commander

- In normal operation, battery life is up to half a year. When the batteries are 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-714 Remote Commander may be used only with those Sony color TV models whose instruction manual indicates its name.

# CHANNEL PRESETTING

Your Sony TV has been factory-preadjusted to receive VHF channels 2 through 13 and two UHF channels when you press the CHANNEL scan buttons and to receive VHF channel 3 for the Hit button. When you readjust channels :

- to rearrange channels in your desired sequence
- to add any receivable UHF channels in your area
- to display signals from the equipment connected to the Hit connector on the front panel; follow the instructions of the "Presetting procedure."

UHF channels can be preset on these two positions. If there are more UHF channels to receive, the presently unused positions among the positions 2 - 13 may be used.

## Factory preset

Position number displayed with the CHANNEL SET switch ON	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Hit
Channel number displayed with the CHANNEL SET switch OFF	2	3	4	5	6	7	8	9	10	11	12	13	*	*	Hit
Channel	2	3	4	5	6	7	8	9	10	11	12	13	*	*	3

\* UHF channel

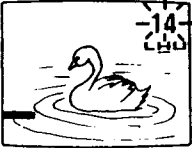







## NOTES

- If you own a video cassette recorder, we recommend that you not reset channel 3 or 4 — whichever is inactive in your area — but use it to receive signals from the video cassette recorder.
- Readjust the VHF channel (ch. 2 - 6) of the Hit button according to the type of equipment (RF output) to be connected.
- To use your TV set with a cable television system, contact a representative of the cable company for instructions regarding channel selection.

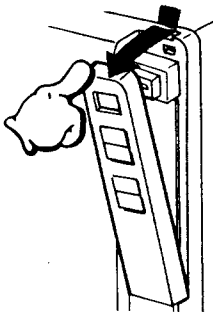
## PRESETTING PROCEDURE

Presetting compartment



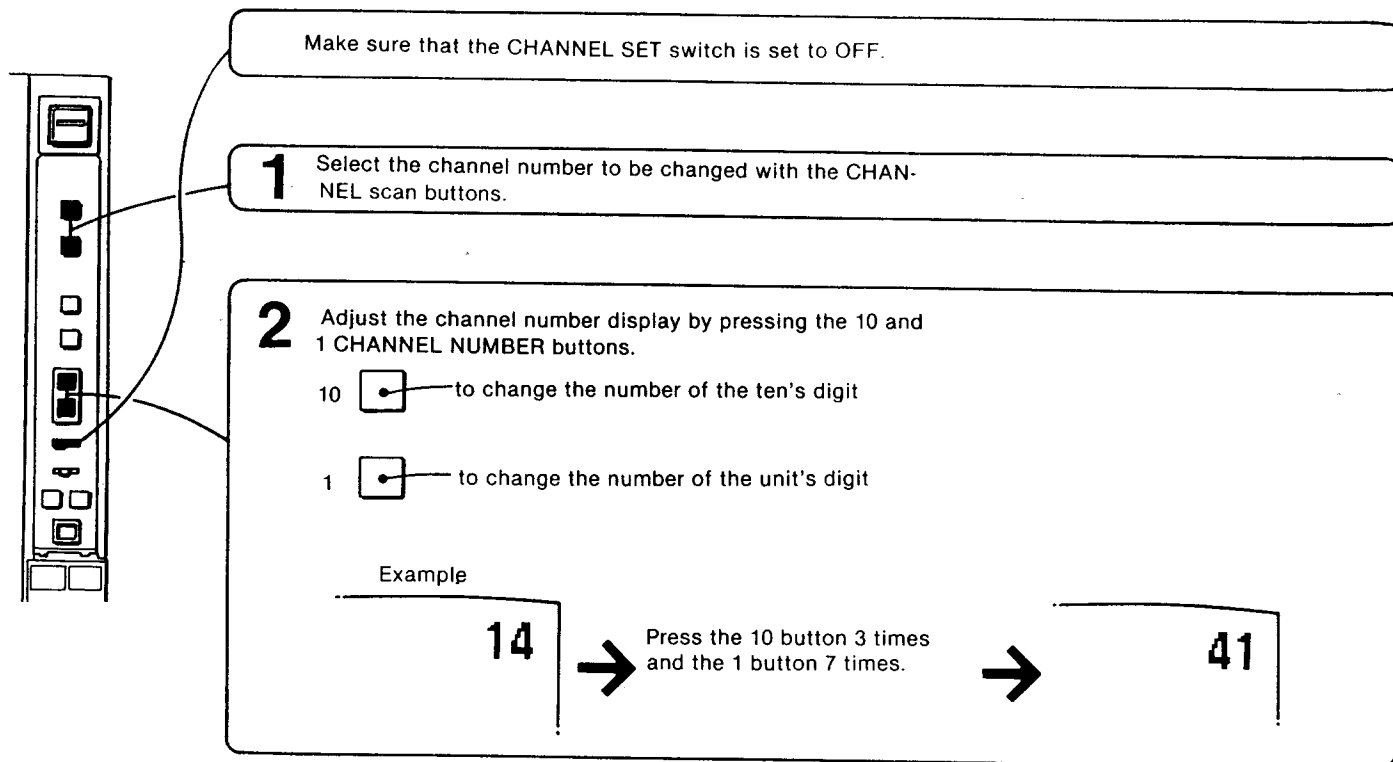
CHANNEL scan buttons	Hit button
<b>1</b> Depress the POWER switch.	Turn on the equipment connected to the Hit. (If it is a VCR, play back a prerecorded tape.)
<b>2</b> Set the CHANNEL SET switch to ON.  The selected program position number should blink with the picture of the presently set channel. If the picture turns black or into snow, set BAND SELECT switch to either of the remaining 2 positions so that the number blinks clearly.	
<b>3</b> Select the channel position to be preset with the CHANNEL scan buttons.   The selected position number should blink. If the number cannot be identified, reset BAND SELECT switch as in step 2.	Press the Hit button. The Hit indication should blink.  
<b>4</b> Set the BAND SELECT switch to one of these three positions: VHF channels 2 through 6...set to $V_L$ VHF channels 7 through 13...set to $V_H$ UHF channels 14 to 83...set to U	Band $V_L$ will be selected regardless of the BAND SELECT switch setting.
   Selected band is underlined.	
<b>5</b> Keep the + or - TUNING button pressed until...  the clear picture of the desired station is obtained.	the signals fed from the Hit connector are properly tuned in.
<div style="text-align: center;"> <p>TUNING</p> <p>for lower-numbered channels   for higher-numbered channels</p> <p>The length of the bar provides a visual indication of the approximate location you are tuned to within the selected band.</p>  <p>             Band <math>V_L</math>..... 2 <math>\longleftrightarrow</math> 6              Band <math>V_H</math>..... 7 <math>\longleftrightarrow</math> 13              Band U..... 14 <math>\longleftrightarrow</math> 83           </p> <p>The RESPONSE lamp lights steadily when the highest- or the lowest-numbered channel within the present band is tuned in.</p> </div>	
Repeat steps 3 through 5 for all the channel positions to be preset.	
<b>6</b> Set the CHANNEL SET switch to OFF.	

Remove the lid and expose the switches and buttons.



## TO CHANGE THE CHANNEL NUMBER DISPLAY

You may change the channel number on the screen according to the channel received by using the CHANNEL NUMBER buttons.



### NOTE

The CHANNEL NUMBER buttons are not operable when the CHANNEL SET switch is set to ON.

## TO SKIP ANY INACTIVE CHANNEL AND REACH THE DESIRED CHANNEL QUICKLY

Simply change the channel number display to be skipped to 0 by pressing the 10 and 1 CHANNEL NUMBER buttons.

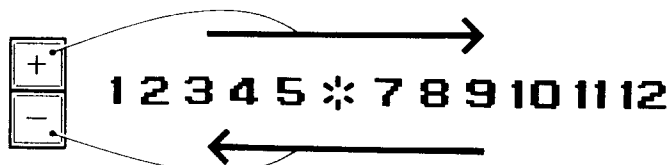
Example

11

Press the 10 button 9 times and the 1 button 9 times.

0

To check the result, press the + or - CHANNEL scan buttons.



### To recall skipped channels

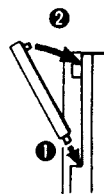
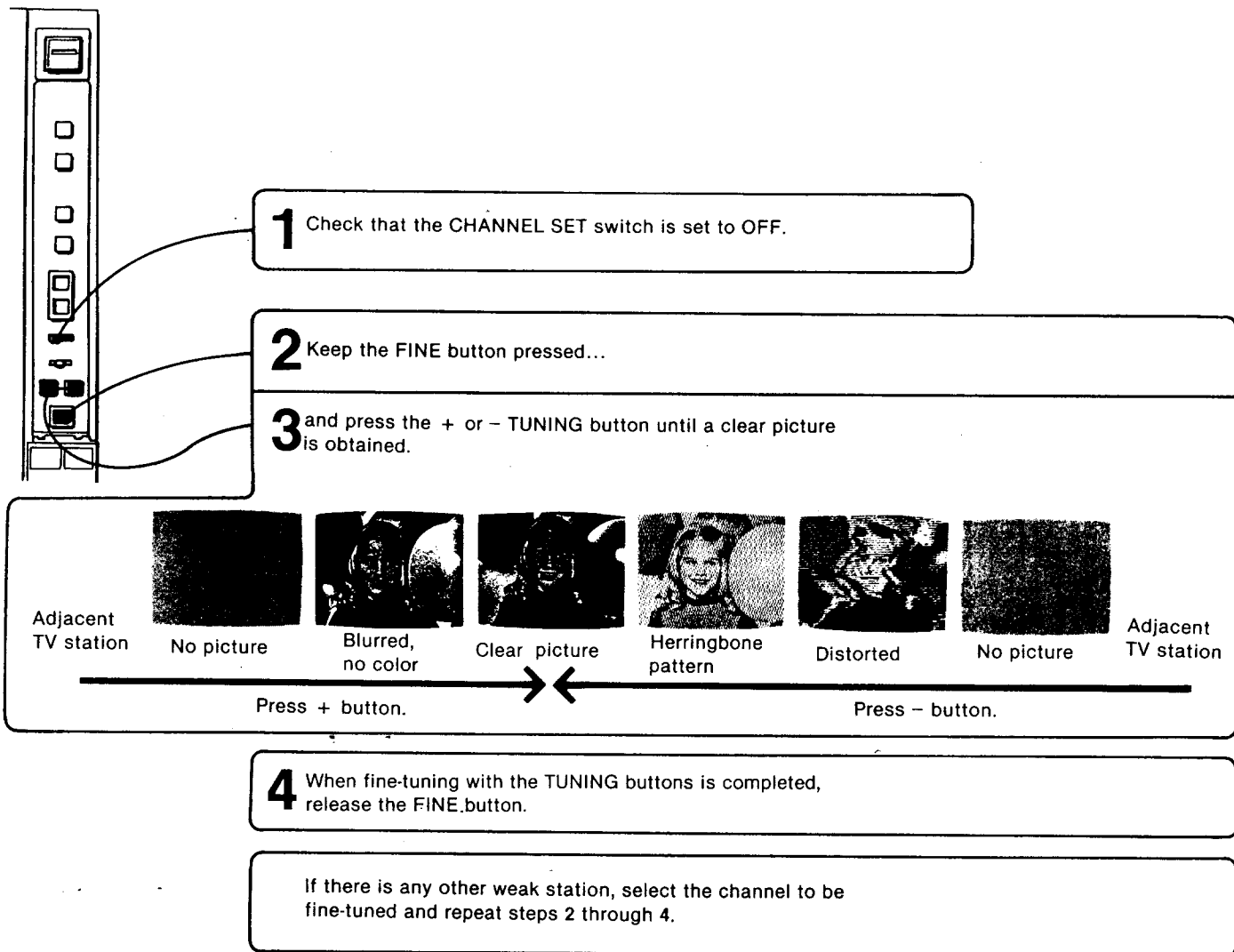
If you press the channel select button corresponding to the skipped channel on the Remote Commander, it will be selected and channel number 0 will appear.

Or, set CHANNEL SET switch to ON and press + or - CHANNEL scan buttons until the skipped channel appears with its original position number.

If you no longer want a channel to be skipped, the channel number display needs to be changed (with the CHANNEL SET switch OFF) to a number other than "0".

## FINE TUNING

In case of extreme interference, or of an extremely weak station, fine-tune manually as follows.



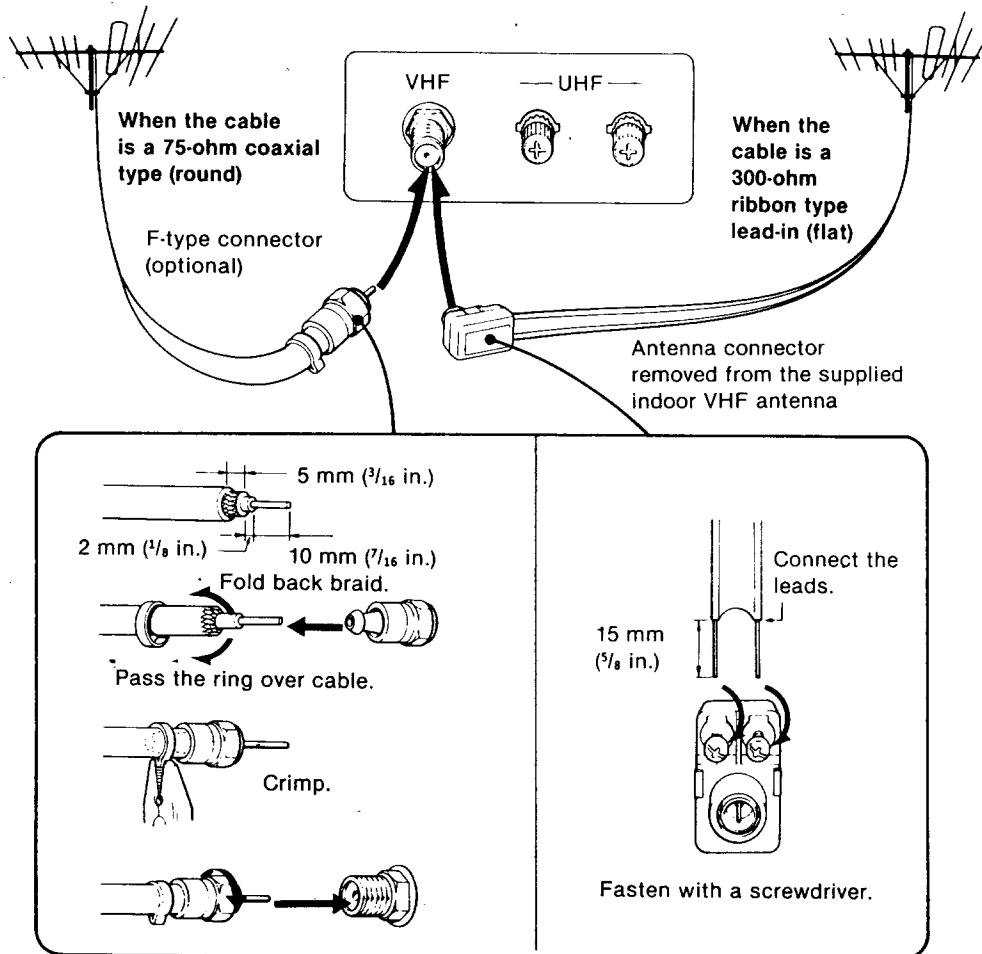
After presetting, align ① and close the lid ②.

# EXTERNAL ANTENNA CONNECTION

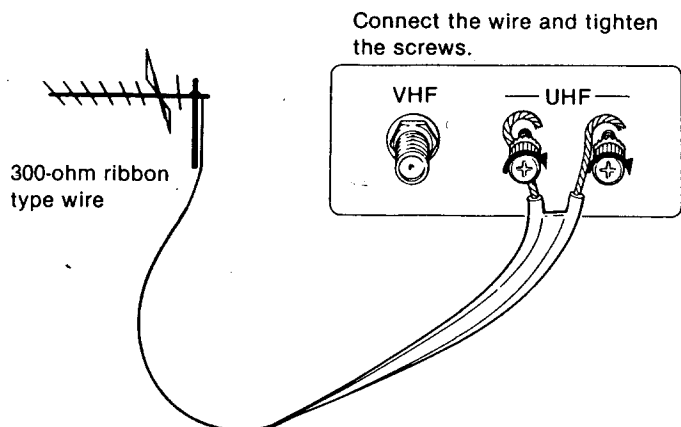
The indoor telescopic dipole antenna and loop antenna will provide good reception in most reception areas. If you cannot obtain satisfactory reception with them, the use of an outdoor antenna is recommended.

- 1 Remove the indoor antennas from the antenna terminals of the TV.
- 2 Connect an external antenna to the VHF and/or UHF antenna terminal(s) corresponding to its form.

## VHF antenna

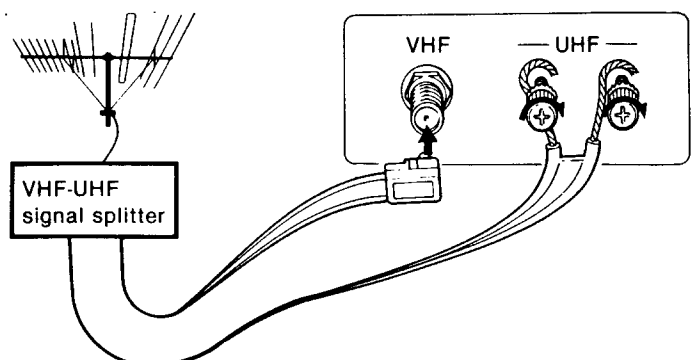


## UHF antenna



## 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.





# SPECIFICATIONS

## KV-1354R/1355R

Television system	American TV standards
Channel coverage	VHF channels 2 - 13 UHF channels 14 - 83 (a total of up to 14 preselected channels)
Picture tube	Trinitron tube 13-inch picture measured diagonally 90-degree deflection
Antenna	VHF telescopic dipole antenna 75-ohm external antenna terminal for VHF UHF loop antenna 300-ohm external antenna terminals for UHF
Hit connector	Auxiliary RF input for one channel between VHF ch. 2 through ch. 6 75-ohm (F-type)
Speaker	9 x 5 cm (3 5/8 x 2 inches)
Power requirements	120 V ac, 60 Hz
Power consumption	90 W max., 58 W average 2.2 W (in standby condition)
Dimensions	Approx. 392 x 355 x 412 mm (w/h/d) (15 1/2 x 14 x 16 1/4 inches)
Weight	Approx. 11.3 kg (24 lb 15 oz)
Accessories supplied	Remote Commander RM-714 VHF telescopic dipole antenna AN-18 Antenna connector UHF loop antenna AN-15 Phono-F plug adaptor EAC-88 Earphone ME-20B




## Remote Commander RM-714

Remote control system	Infrared control
Power requirements	3 V dc Battery size AA x 2 (IEC Battery Designation R6)
Dimensions	Approx. 60 x 20 x 150 mm (w/h/d) (2 3/8 x 7/8 x 6 inches)
Weight	Approx. 130 g (4.6 oz) incl. batteries
Accessories supplied	Battery size AA (2 pcs.) Channel number segments (1 set)

Design and specifications subject to change without notice.

# TROUBLE CHECKS

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 list of symptoms and corrections. Should the difficulty persist, unplug the set and contact your Sony dealer.

SYMPTOM	CORRECTION
no picture (screen not lit), no sound	<ul style="list-style-type: none"> <li>● Plug the set into a working outlet.</li> <li>● Press the POWER switch on the TV or the Commander.</li> <li>● Before pressing the Hit button, connect equipment to the Hit connector.</li> </ul>
no picture (screen not lit), but good sound	<ul style="list-style-type: none"> <li>● Turn the BRIGHT or PICTURE control clockwise.</li> </ul>
good picture but no sound	<ul style="list-style-type: none"> <li>● Press the + VOLUME button.</li> <li>● Release the sound muting by pressing the MUTING button.</li> </ul>
no picture, no sound, but snow and noise only	<ul style="list-style-type: none"> <li>● Adjust the indoor antenna.</li> <li>● Connect the antenna properly.</li> <li>● Check the outdoor antenna.</li> <li>● Perform the channel presetting as described on page 12.</li> <li>● Release the Hit button.</li> </ul>
no color	<ul style="list-style-type: none"> <li>● Perform the channel presetting as described on page 12.</li> </ul>
herringbone pattern, stripes, no color, no picture, too indistinct, etc.	 <ul style="list-style-type: none"> <li>● Perform the channel presetting as described on page 12.</li> </ul>
dotted lines or stripes	 <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>
double images or "ghosts"	 <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>