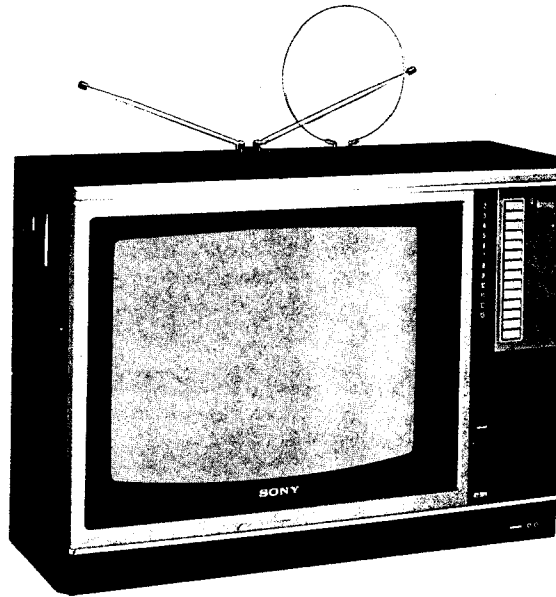


**TRINITRON® COLOR TV RECEIVER**

**KV-1924**



**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-1924      Serial No. \_\_\_\_\_

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# 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 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.

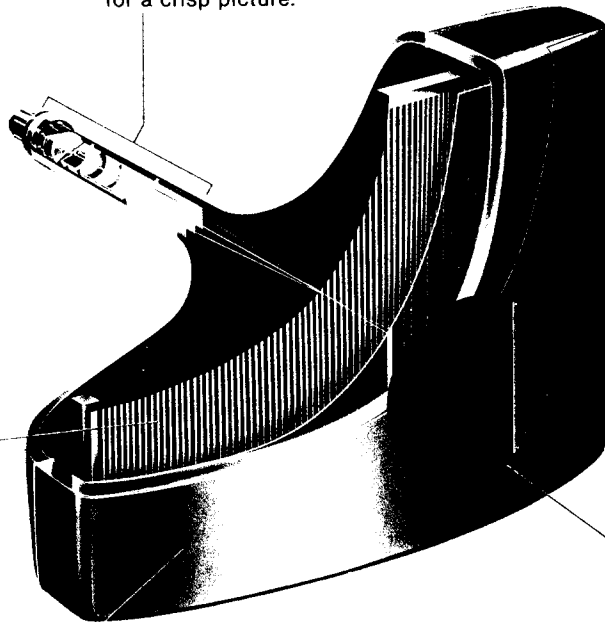
# FEATURES

- 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.
- Capable of preset tuning of up to 14 channels; VHF, UHF or inactive channels, for instance, for monitoring the playback of a video tape recorder
- 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.

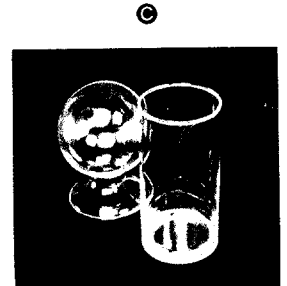
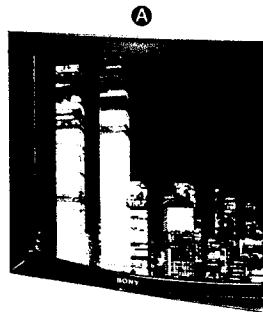
One-gun, three-beam electron focusing structure, and a single large electron lens for a crisp picture.



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

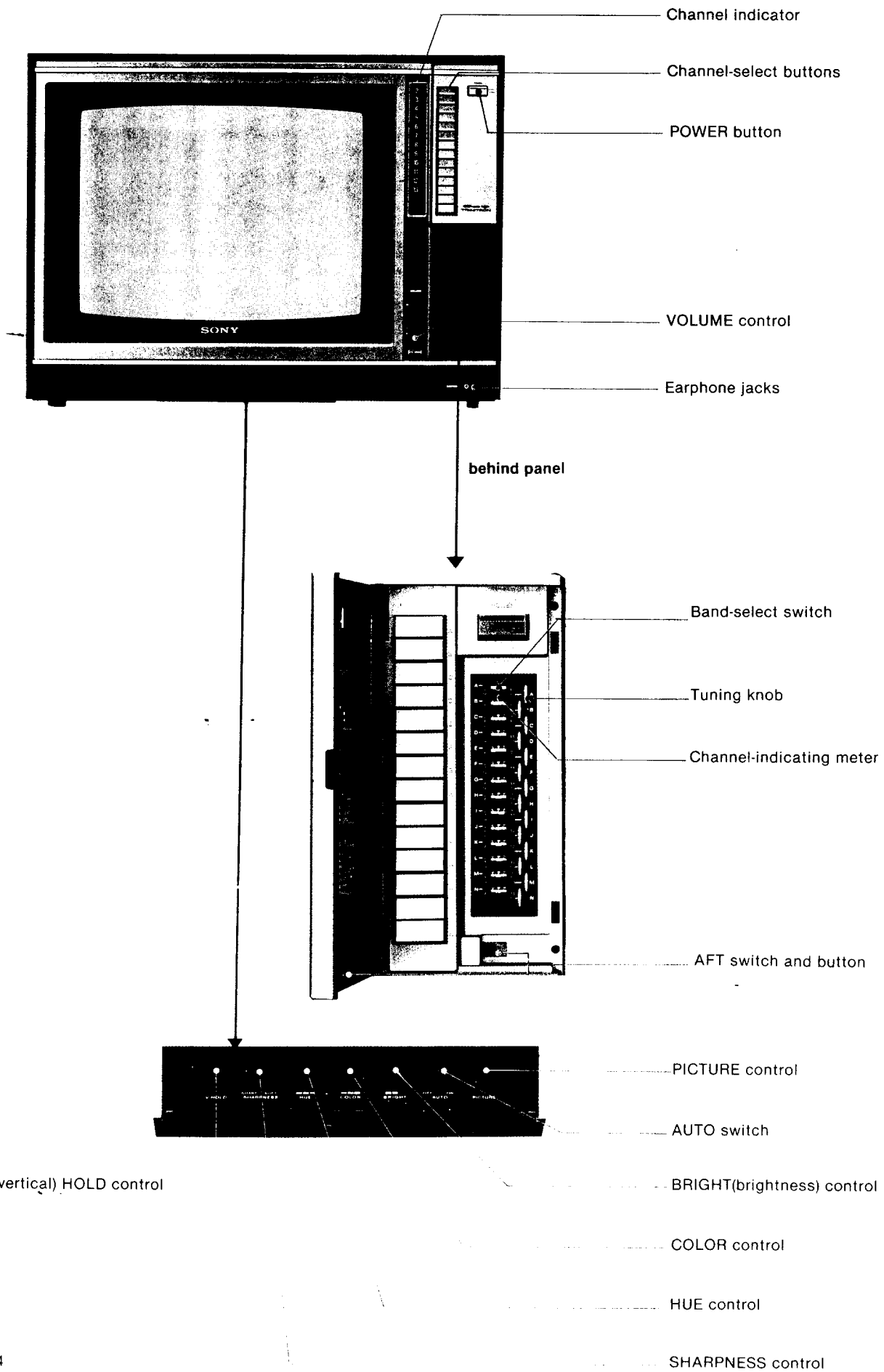
Guard Grille for a high contrast, brighter picture, without color spills.

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

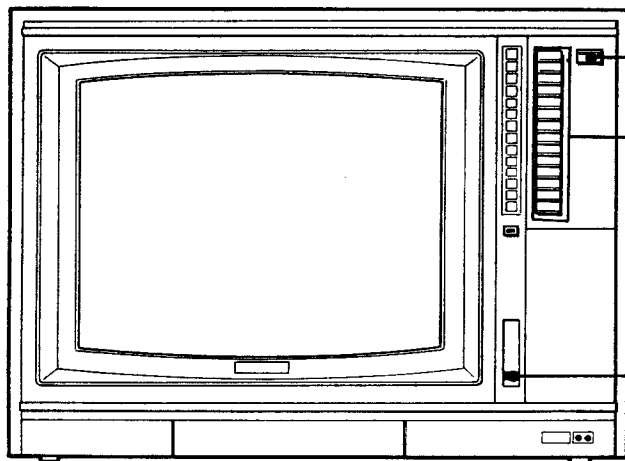


**A** and **B** are simulated pictures.

# LOCATION OF CONTROLS

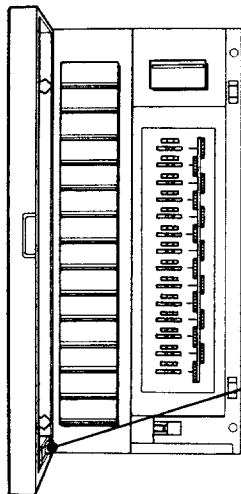


# OPERATION



- 1 Press the **POWER** button.  
To switch off, press the button again.
- 2 Press the desired **channel-select** button.
- 3 To increase the volume, slide the **VOLUME** control upwards.  
To decrease, slide the **VOLUME** control downwards.

behind panel



Set the **AFT** switch to **ON** and close the panel. The **AFT** (Automatic Fine Tuning) locks in the signal and maintains a sharp picture.

## To listen with the earphone (supplied)

For private listening, insert the earphone plug into the [•] **EARPHONE** jack. This disconnects the loudspeaker.

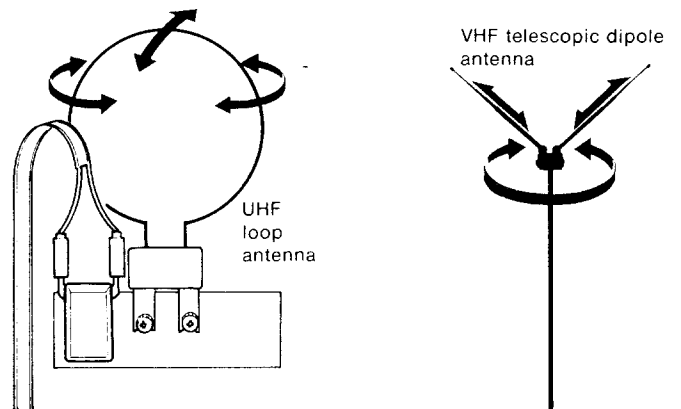
The use of the [••] jack permits the earphone and the loudspeaker to be used simultaneously.

TV sound may be recorded by connecting a tape recorder to the [••] receptacle with a suitable connecting cord. Adjust the TV volume for a normal level.

## INDOOR ANTENNA ADJUSTMENT

**For VHF reception**, use the VHF telescopic dipole antenna; adjust the length, direction and angle for the best possible picture.

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



When an external antenna is to be used, refer to page 10.

# PICTURE ADJUSTMENTS

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 here according to picture conditions.



PICTURE control: at the center detent position

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

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

BRIGHT control: at the center detent position

## If the picture rolls vertically



V HOLD

Turn the V HOLD control to the left or right until the picture stabilizes.



Good picture

**Skin tones not natural**

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



OFF

AUTO

greenish skin



HUE

good picture



HUE

purplish skin



too vivid



COLOR

good picture



COLOR

too pale



**too bright or too dark picture**

too bright



BRIGHT

good picture



BRIGHT

too dark



**Too sharp or too soft picture**

too sharp or snowy



SHARPNESS

good picture



SHARPNESS

too soft



**To increase or decrease contrast**

strong contrast with vivid color



PICTURE

good picture



PICTURE

weak contrast with pale color

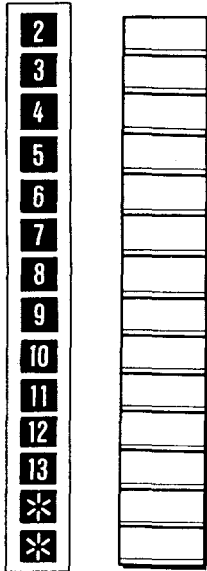


# CHANNEL PRESETTING

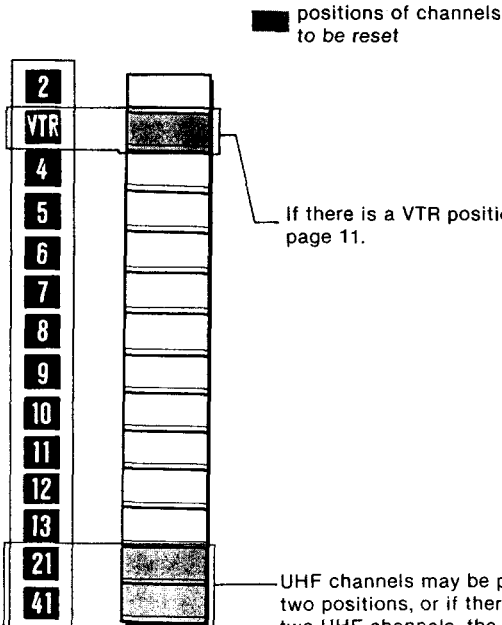
As you receive your Sony TV from the dealer, it has been factory-preadjusted to receive VHF channels 2 through 13 by simply pressing the channel-select button having the number corresponding to the channel number.

Because of the geographical distribution of VHF stations, there will probably be some positions in the 2-13 range that will not provide reception at your location, with the result that several of these positions will be unusable for the time being. In addition, you will probably wish to receive several of the locally available UHF channels, and possibly to make provision for cable TV or a video tape recorder.

factory preset



Example: result of resetting  
(the numbers are changed accordingly.)

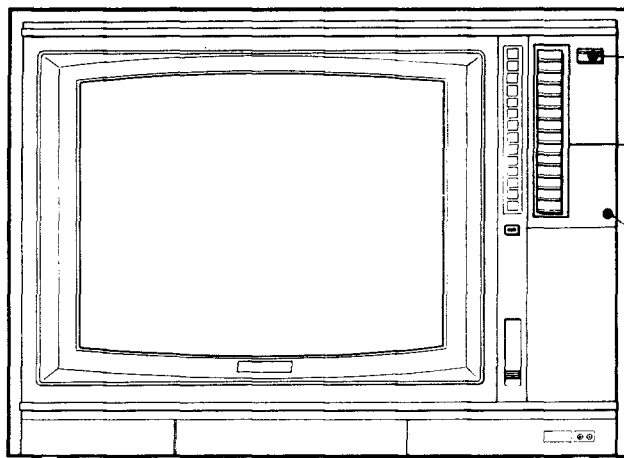


■ positions of channels to be reset

If there is a VTR position to be included, refer to page 11.

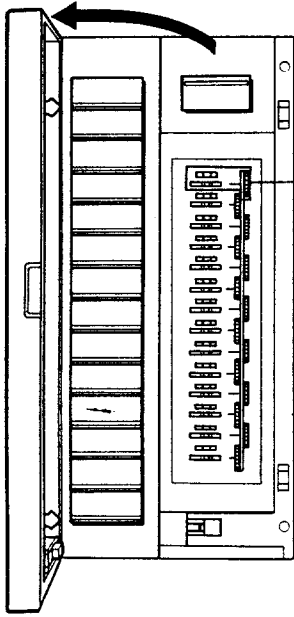
UHF channels may be preset on these two positions, or if there are more than two UHF channels, the presently unused positions among the positions 2-13 may be used.

## PRESETTING PROCEDURES



- ① Press the POWER button.
- ② Press the channel-select button to be preset first.
- Open the front panel to expose the controls.





**3** Set the **band-select switch** corresponding to the selected button to one of the three color coded positions:  
 For channels 2 through 6, set to red.  
 For channels 7 through 13, set to yellow.  
 For channels 14 through 83, set to blue.

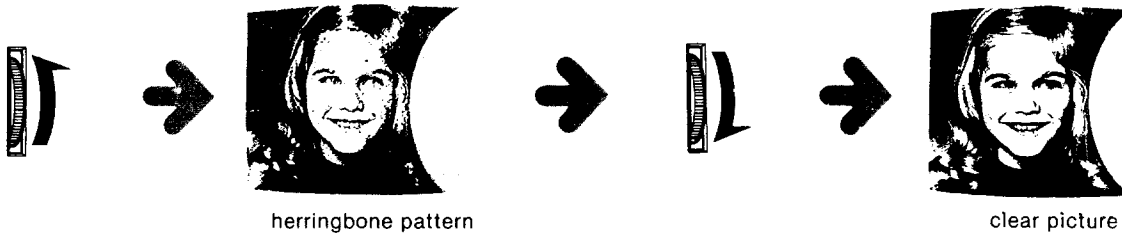
**4** Turn the **tuning knob** either upwards for higher numbered channels or downwards for lower numbered channels until the desired station is properly tuned in.

The channel indicating meter provides a visual indication of the approximate position of the tuning control within the operating range of the band-select switch.  
 left.....lower-numbered channels  
 right.....higher-numbered channels

To identify the channels, consult a newspaper or TV program guide or use another TV set if available, to view what is being telecast during the adjustment.

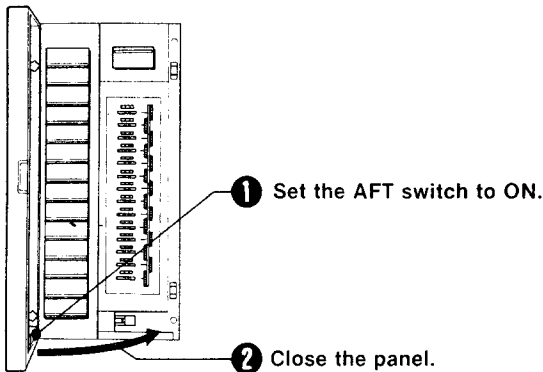
Repeat steps 2 - 4 for all the channel-select buttons to be preset.

When the picture appears, slowly turn the tuning knob upwards until a herringbone pattern appears in the colored parts of the picture, then turn the knob downwards until the herringbone pattern just disappears and the picture is clear.



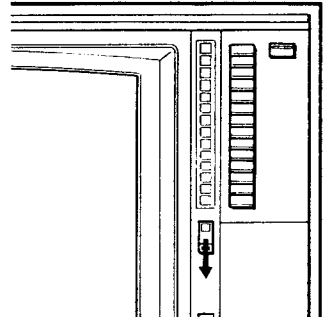
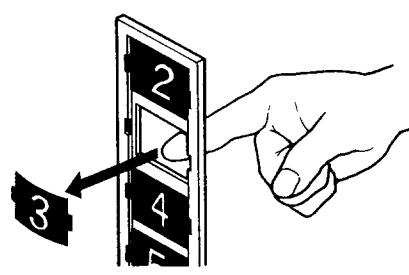
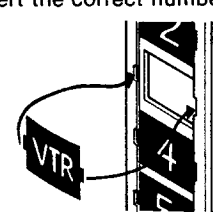
When the front panel is opened, the AFT switch is released and the AFT (Automatic Fine Tuning) circuit will be deactivated to permit an accurate tuning adjustment.

When the adjustment has been completed,



The AFT then locks in the received signal and maintains a sharp picture.

**To replace the number segments**

<p>❶ Remove the channel indicating sheet from the channel window.</p> 	<p>❷ Press any incorrect segment out from the rear.</p> 	<p>❸ Insert the correct number segments.</p>  <p>An asterisk (*) segment may be used to indicate an inactive channel.</p> <p>Replace the sheet in the original positions.</p>
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To use your TV set with a cable television system, contact a representative of the cable company for instructions regarding channel selection.

# EXTERNAL ANTENNA CONNECTION

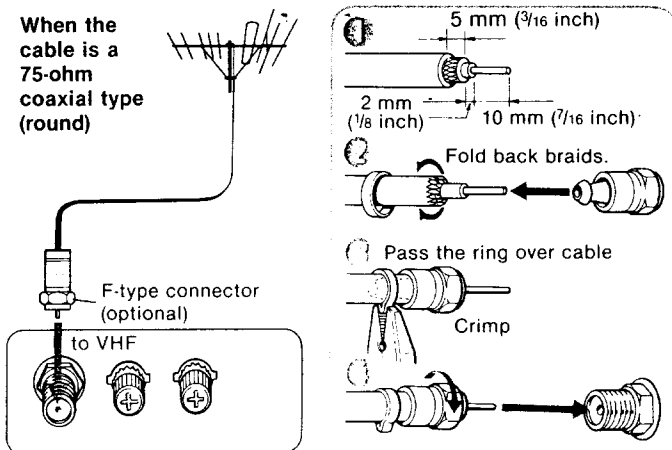
If your local signal is strong, an indoor antenna may be sufficient to obtain a clear picture.

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).

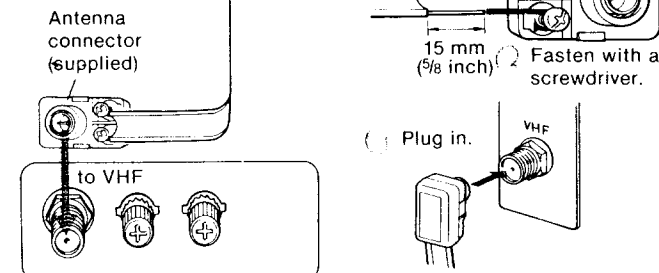
## VHF antenna

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 75-ohm coaxial type (round)

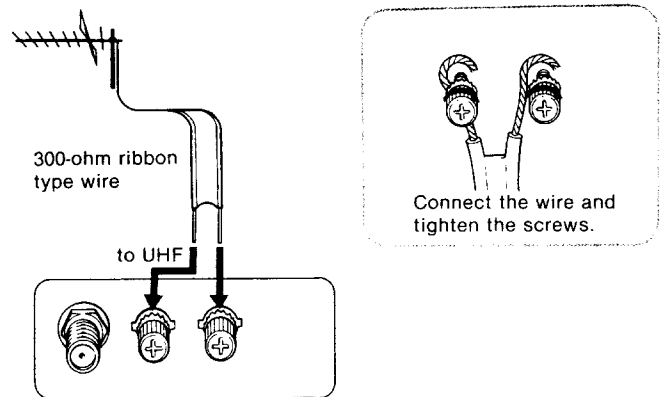


When the cable is a 300-ohm ribbon type lead-in (flat)



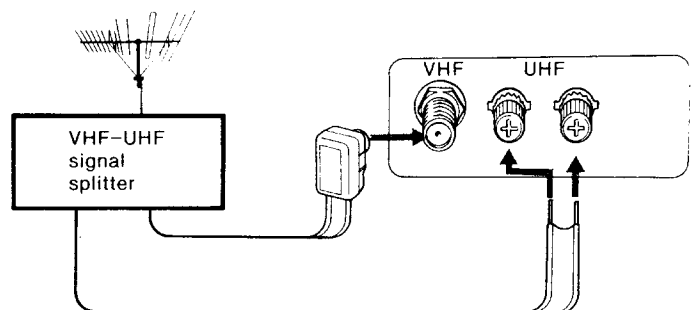
## UHF antenna

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



## Combination VHF/UHF antenna

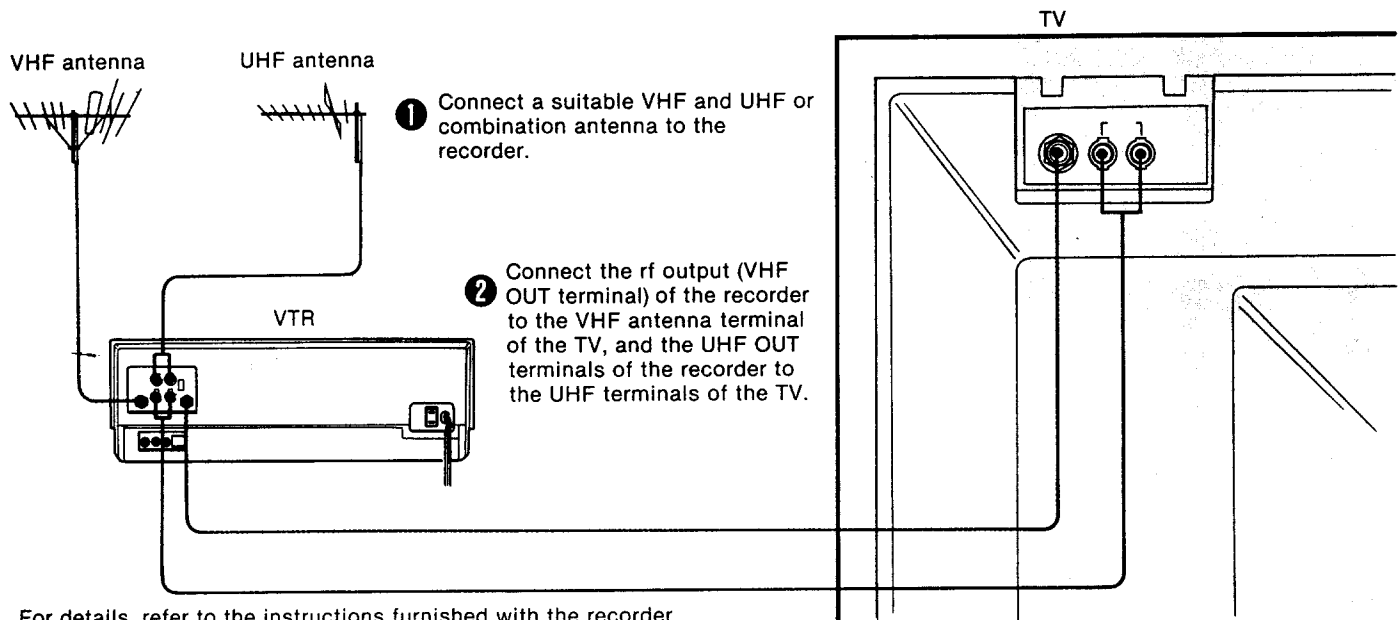
Most combination antennas already have a signal splitter. If you need a splitter or a complete antenna system, see your Sony dealer or a qualified technician.



# VIEWING VTR PLAYBACK

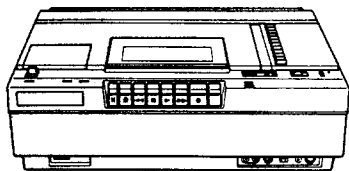
To view the playback picture from a Sony Betamax videocassette recorder (or other VTR) equipped with an rf output terminal.

## Connection

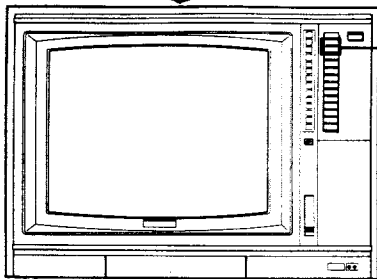


For details, refer to the instructions furnished with the recorder.

## Operation



The signal from the recorder will be fed to the TV.



### 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.)

### adjusting the TV

- 3** At the factory, the channel-select button marked 3 is preadjusted to VHF channel 3 and the one marked 4 to VHF channel 4. Press the button corresponding to the setting of the rf unit built into the recorder. A playback picture will appear.

If a picture does not appear on the TV screen or if the display is not clear, perform the channel presetting (see page 8).











If you have reset the channels, any other unused channel-select button may be used.

### To preset, proceed as follows.

- 1) Press the channel-select button to be preset for viewing the playback picture.
- 2) Set the band-select switch to red.
- 3) Turn the tuning knob until the playback picture is clearest.

# 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>no picture (screen not lit), no sound</p>	<ul style="list-style-type: none"> <li>● Plug the set into a working outlet.</li> </ul>
 <p>no picture (screen not lit), but good sound</p>	<ul style="list-style-type: none"> <li>● Turn the BRIGHT or PICTURE control clockwise ↻.</li> </ul>
 <p>good picture but no sound</p>	<ul style="list-style-type: none"> <li>● Slide the VOLUME control upwards.</li> <li>● Disconnect the earphone from the [ • ] earphone jack.</li> </ul>
 <p>no picture, no sound, but snow and noise only</p>	<ul style="list-style-type: none"> <li>● Adjust the indoor antenna.</li> <li>● Connect the antenna properly.</li> <li>● Check the outdoor antenna.</li> </ul>
 <p>no color</p>	<ul style="list-style-type: none"> <li>● Check that the AUTO and AFT switches are set to ON.</li> <li>● Check that the COLOR control is not turned fully counter-clockwise ↻.</li> <li>● Perform the channel presetting as described on page 8.</li> </ul>
 <p>herringbone pattern, stripes, no color, no picture, too indistinct, etc.</p>	<ul style="list-style-type: none"> <li>● Perform the channel presetting as described on page 8.</li> </ul>
 <p>dotted lines or stripes</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>double images or "ghosts"</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

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 19-inch picture measured diagonally 100-degree deflection
Antenna	VHF telescopic dipole antenna UHF loop antenna 75-ohm external antenna terminal for VHF 300-ohm external antenna terminals for UHF
Speaker	12 × 8 cm (4 <sup>3</sup> / <sub>4</sub> × 3 <sup>1</sup> / <sub>4</sub> inches)
Power requirements	120 V ac, 60 Hz
Power consumption	115 W (max.), 73 W (average)
Dimensions	approx. 679 × 501 × 491 mm (w/h/d) (26 <sup>3</sup> / <sub>4</sub> × 19 <sup>3</sup> / <sub>4</sub> × 19 <sup>3</sup> / <sub>8</sub> inches) approx. 27.6 kg (60 lb 14 oz)
Weight	
Accessories supplied	Channel number segments Earphone

Design and specifications are subject to change without notice.