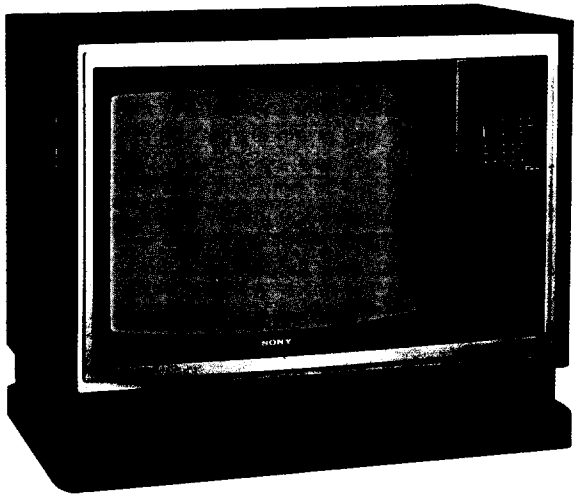


TRINITRON® COLOR TV

KV-2647RX



OPERATING INSTRUCTIONS

Welcome to the advanced world of Sony TV. For best results, please read this manual thoroughly before operating the set, and keep these instructions handy for future reference.

FEATURES

- Remote-control color television with an electronic digital clock
- CATV (cable television) programs or normal broadcast programs can be selected.
- The MPX OUT jack allows a special (optional) adaptor to be connected for any future multichannel sound (stereo, bilingual, etc.) TV broadcasts.
- Easy channel selection and presetting with 10-key tuning system
- Velocity Modulation for sharpening image contours on the large screen
- DYNAMIC COLORTM system for superior color reproduction with natural facial color tones and dazzling whites
- DYNAMIC PICTURETM system adjusts picture contrast automatically to produce more detail in both bright and dark areas of every scene
- Built-in automatic fine tuning and color circuits
- Easy-to-read green fluorescent displays on the time indicator and channel indicator
- ECONOQUICKTM, energy-saving quick-start picture system
- Genuine pecan wood veneer cabinet

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-2647RX

Serial No. _____

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Checking the set by yourself	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 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.

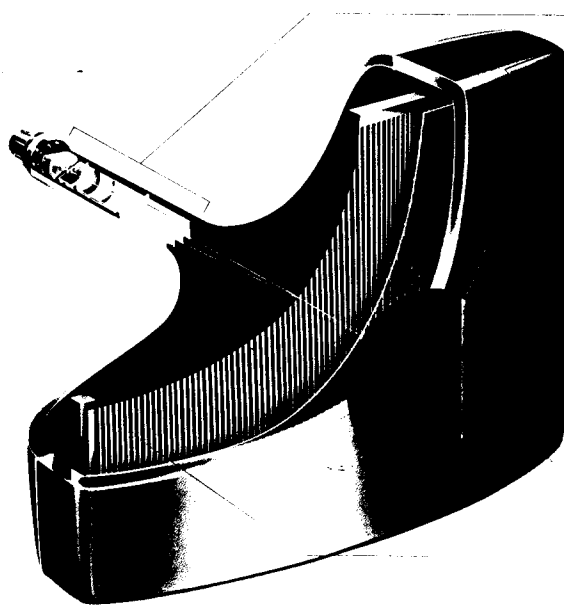
MAINTENANCE

- 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.

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.

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

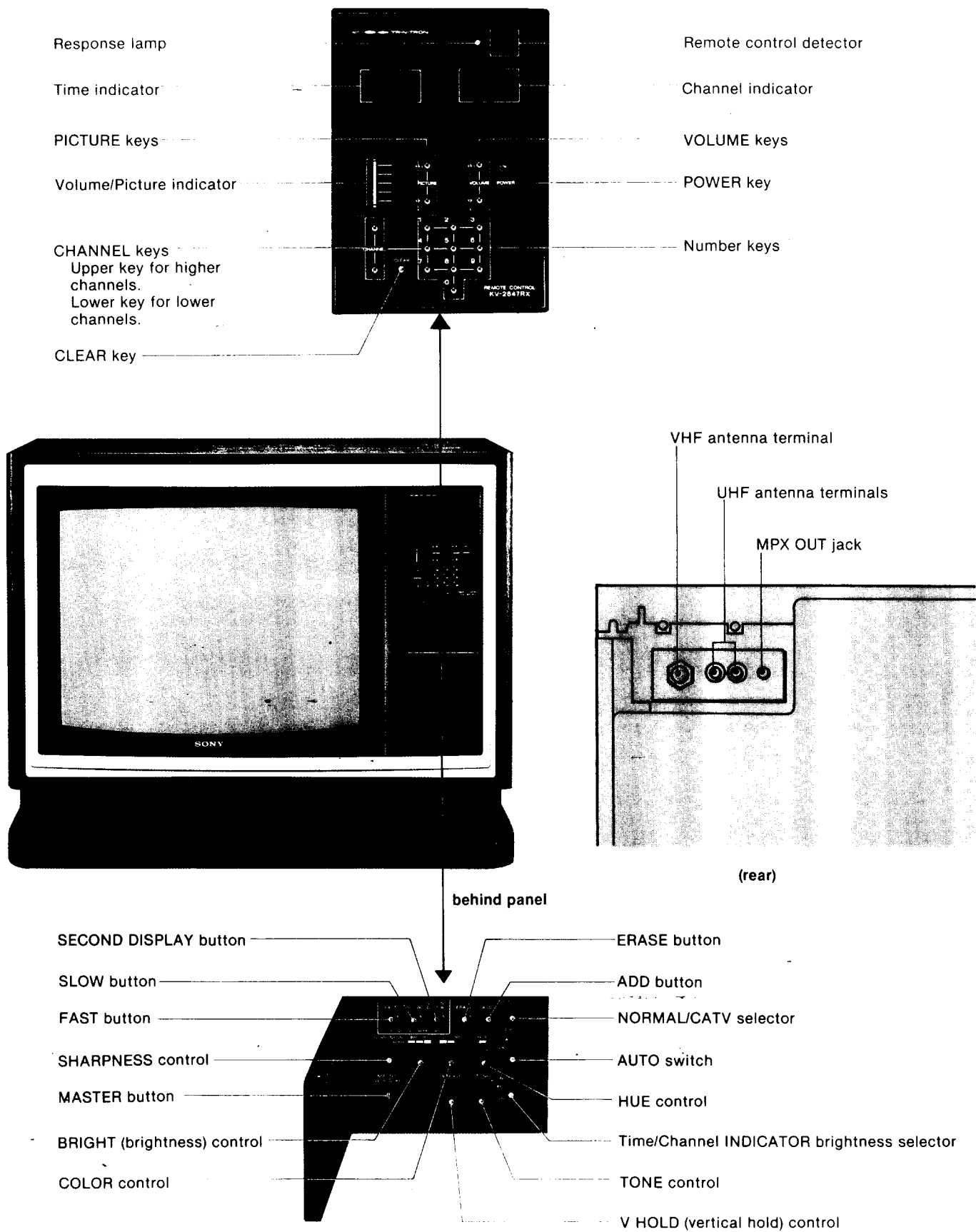


Guard Grille for a high contrast, brighter picture, without color spills.

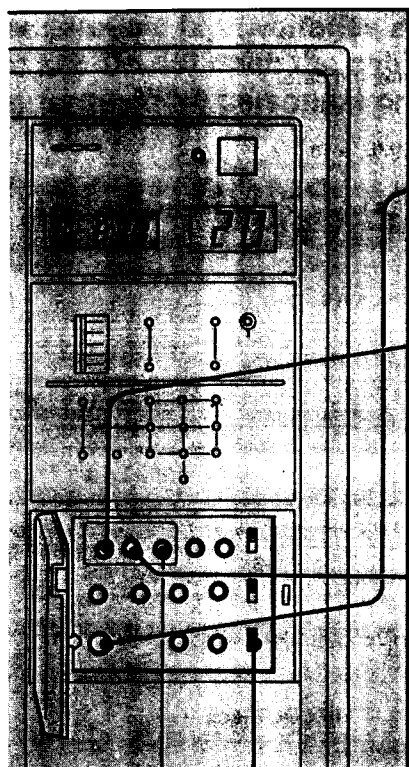
Aperture Grille color selection system for a brighter, sharper picture, less prone to moiré patterns (ripple or wave effect).

A and B are simulated pictures.

LOCATION OF CONTROLS



CLOCK ADJUSTMENT



- ① Connect the ac power cord to a wall outlet.
- ② Open the lid.
- ③ Press the **MASTER** button in until locked. Time display will appear and begin to blink indicating that clock adjustment is required.
- ④ Adjust the time by pressing the **FAST** button, which advances the time indication rapidly. Release the button as the correct time is approached. Time display will stop blinking when the **FAST** or **SLOW** button is pressed.
- ⑤ Press the **SLOW** button and release at the desired time indication. Every push on the button advances 1 minute.

Time/Channel INDICATOR brightness selector
Selects the brightness of the time display.
The switch may be set to BRT during daylight hours and to DIM at night.

SECOND DISPLAY button

Notes

- Make sure that the time indicator correctly shows the desired a.m. or p.m. time.
AM 12:00 = midnight PM 12:00 = noon
- Time indication cannot be set back. When pressing the **FAST** or **SLOW** button, carefully observe the time indicator to avoid overshooting.
- When the **MASTER** button is set to OFF, the time display disappears on the time indicator but the clock operates properly so long as the ac power cord is connected.
- If a power interruption of less than 10 seconds has occurred, the clock time setting will be maintained.
- If a power interruption of more than 10 seconds has occurred, the clock time setting will be cleared. When the power is resupplied, the time display blinks to show that time adjustment is required.
- The clock operates only on 60 Hz line frequency.

Zero second adjustment

Although the time indicator shows the time in hours and minutes, a difference of up to 59 seconds may exist between the precise time and the time adjusted in the previously mentioned manner. To adjust the time exactly to the second with a TV or telephone time tone signal, proceed as in the following example.

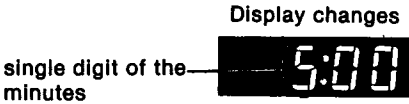
Example Several minutes in anticipation of a precise 7:15 p.m. time signal:

- 1 Adjust the time display to PM 7:15 as described before.



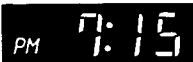
- 2 While pressing the SECOND DISPLAY, press the FAST button to set the seconds to zero. 5:00 will appear on the time indicator, showing that the clock is set exactly to 7 o'clock 15 minutes and 00 seconds.

- While the FAST button is pressed, the clock does not operate.



- 3 Release the FAST button simultaneously with the TV or telephone time signal. The clock will then begin to operate, showing the precise time of day.

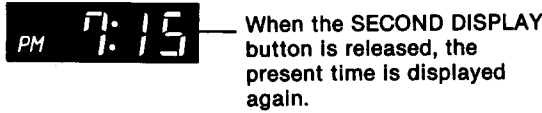
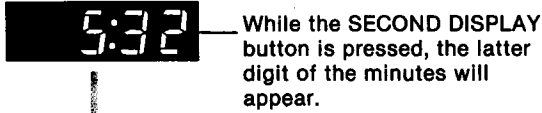
- 4 Release the SECOND DISPLAY button.



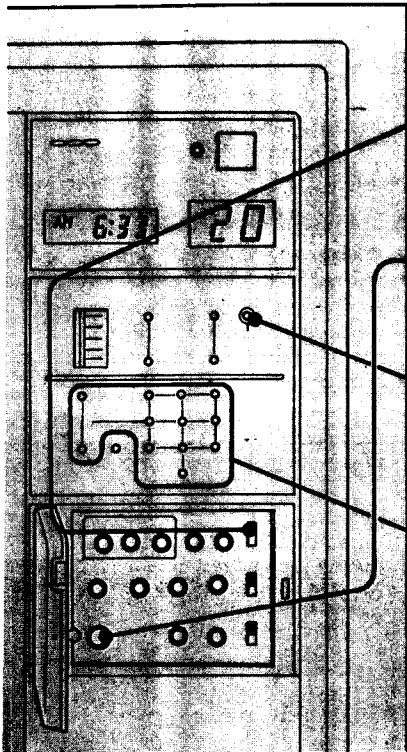
- If steps 3 and 4 are reversed, the clock gains time.

To display seconds of the present time

Display changes

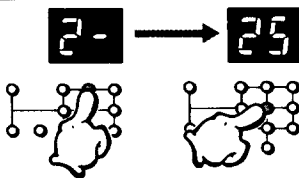


NORMAL TV OPERATION (PANEL OPERATION)

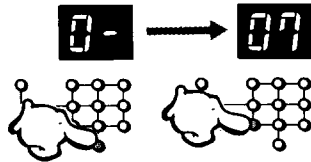


- 1 Set the **NORMAL/ CATV** selector to **NORMAL**.
- 2 Press the **MASTER** button. Generally keep this button pushed in to be able to operate the set with the Remote Commander.
- 3 Press the **POWER** key. The picture will appear. To switch off, press the key again.
- 4 Select the desired channel either by —pressing the number keys:
(For channels 2 through 9, press the 0 key first.)

Examples channel 25



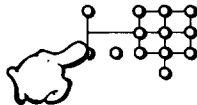
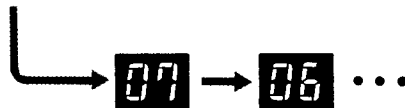
channel 7



—or by scanning higher or lower for the channel among the pre-memorized channels with the **CHANNEL** keys:



For higher-numbered channels, press the upper key.

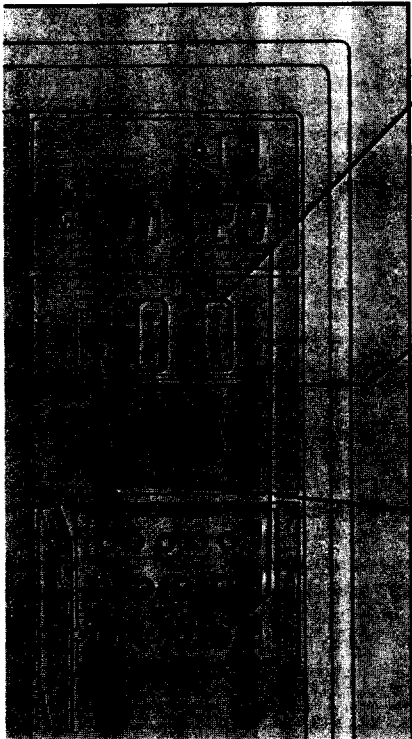
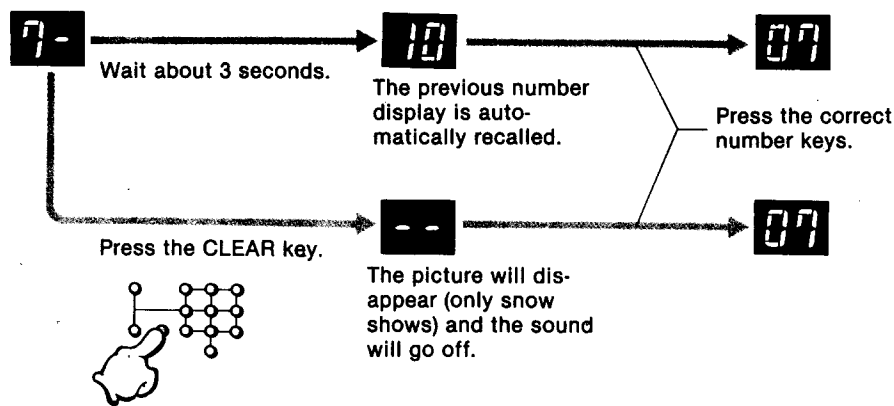


For lower-numbered channels, press the lower key.

This TV is preset at the factory to receive VHF channels 2 through 13 with the **CHANNEL** keys. To add UHF or CATV channels or to erase inactive channels, see page 12.

Note: If you select an incorrect tens-digit, or forget to first select 0 for channels 2 through 9

Example When you wish to select channel 7.



5 To increase the sound volume, keep the ▲ VOLUME key depressed. To decrease, keep the ▼ VOLUME key depressed. Adjust the TONE control to your preference. Turn clockwise to H for more treble, or counterclockwise to L for less treble.

6 Adjust the PICTURE keys according to the room-lighting condition. To increase the picture contrast, keep the ▲ PICTURE key depressed. To decrease, keep the ▼ PICTURE key depressed.

Volume/Picture Indicator
Usually the illumination of the indicator elements indicates the sound volume. While either of the PICTURE keys is depressed, the indicator shows the picture contrast setting of the TV.

Operating note

	When turned off with POWER key on the TV or commander and turned on again	When turned off with MASTER button and turned on again
channel	memorized	memorized
sound volume		factory-preset levels
picture contrast		

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.

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.)

HUE control: at the center position

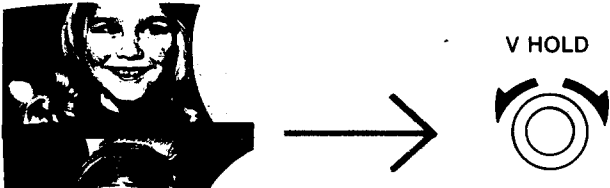
COLOR control: at the center position

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


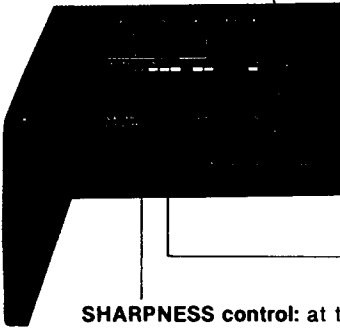
BRIGHT control: at the center detent position

SHARPNESS control: at the center detent position

Picture rolls vertically



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



Good picture

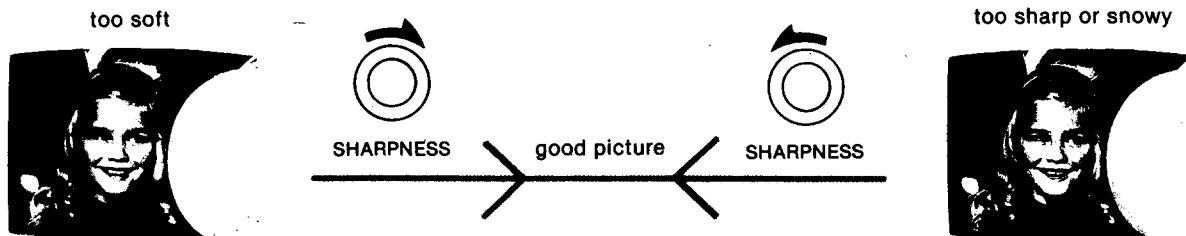
With the AUTO switch in the ON position, the picture should be adjusted to the following conditions:

purplish skin	HUE	good picture	HUE	greenish skin
too pale	COLOR	good picture	COLOR	too vivid

With the AUTO switch in the ON position, the picture should be adjusted to the following conditions:

too dark	BRIGHT	good picture	BRIGHT	too bright
----------	--------	--------------	--------	------------

Too sharp or too soft picture



CABLE TV OPERATION (PANEL OPERATION)

In CATV (cable television) systems, programs are brought into the home on the mid-band channels A-I and the super-band channels J-W.

This TV receives CATV channels, A through W, with the NORMAL/CATV selector set to CATV.

Channel A can be tuned in by selecting number 14 on this TV, channel B by selecting number 15, and so on, as follows:

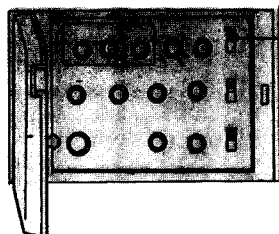
Number on this TV	14	15	16	17	18
Corresponding CATV channel	A	B	C	D	E
19	20	21	22	23	24
F	G	H	I	J	K
25	26	27	28	29	30
L	M	N	O	P	Q
31	32	33	34	35	36
R	S	T	U	V	W

Most CATV systems use letters to designate channels but some use numbers. To tune in a numbered channel, select the same number on the TV.

Consult your local cable TV company or your nearest Sony dealer to find out which of these channels are receivable and which type of cable system is used in your area. (Pay cable TV systems use scrambled or encoded signals and require special converters.)

CATV programs are tuned in the same way as normal TV programs except for the NORMAL/CATV selector setting. Read pages 6-8 to familiarize yourself with TV operation.

- 1 Set the NORMAL/CATV selector to CATV.



NORMAL/CATV selector
receivable channels
NORMAL: 2-13, 14-83
CATV: 2-13, A-W

- 2 Press in the MASTER button.

- 3 Press the POWER key.

- 4 Select the desired channel either by pressing the number keys or by scanning higher or lower for the channel among the prememorized channels with the CHANNEL keys. (See page 12.)

- 5 Adjust the sound volume with the VOLUME keys.

- 6 Adjust the picture contrast with the PICTURE keys.

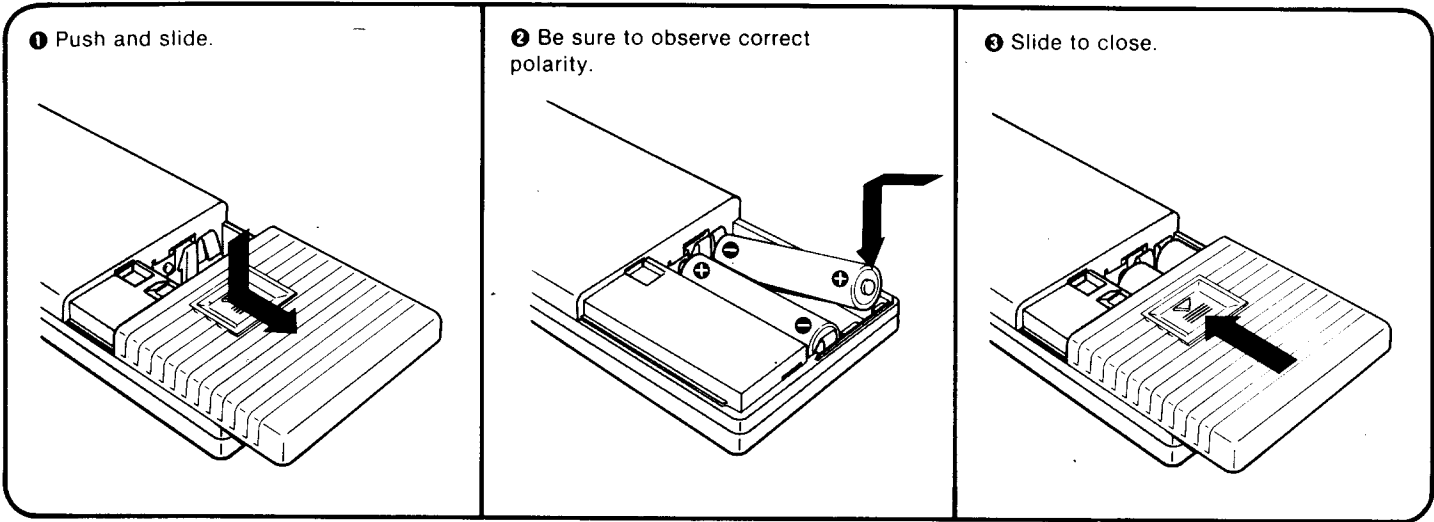
Operating note

It may take a little longer to tune in the desired CATV channels than a normal TV channel.

REMOTE CONTROL OPERATION

Battery installation

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



Function of keys on the Remote Commander RM-707

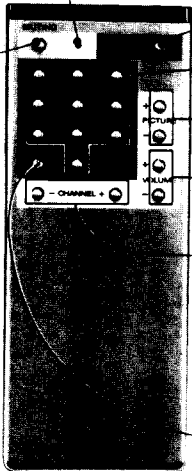
Keys which have no equivalent on the TV

Output indicator
This lamp lights when the Remote Commander is operating.
If the lamp does not light when any of the function keys are pressed, battery replacement is required.

MUTING key
To mute the sound immediately, press this key. Sound muting will be released when the MUTING key is depressed again.

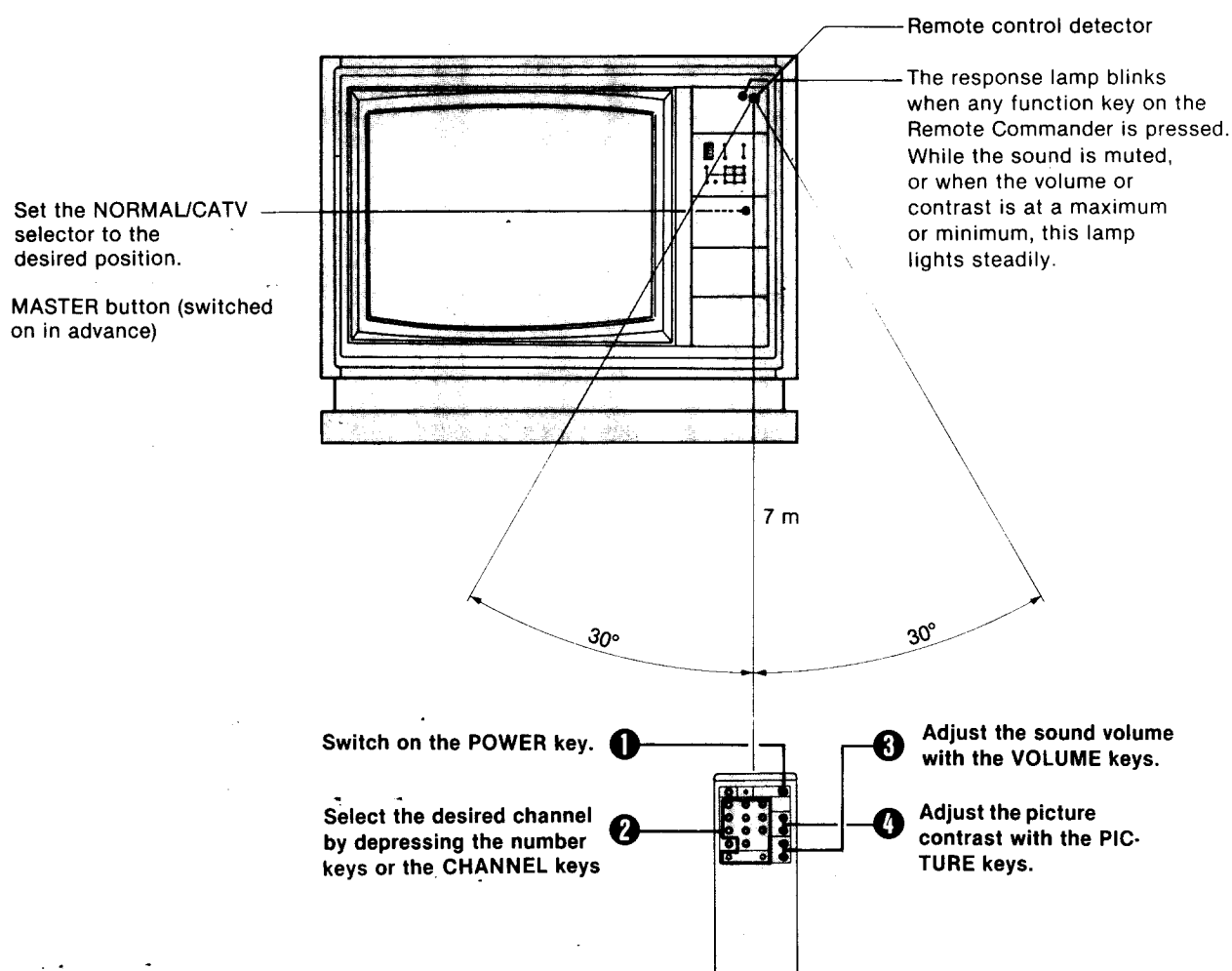
Transmitter
Point toward the remote control detector on the TV.

Keys whose functions are the same as the TV panel 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.



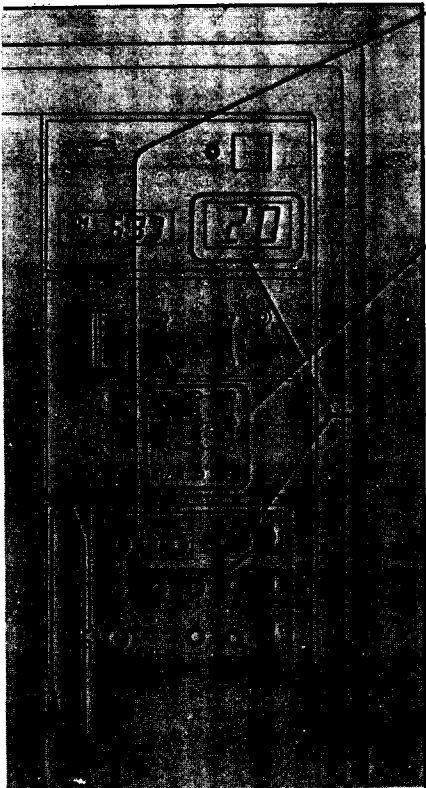
Notes on the Remote Commander

- 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 cabinet, particularly when replacing batteries.
- To avoid a malfunction, do not simultaneously depress two or more keys.
- The RM-707 Commander may be used with those Sony color TV models indicated in the operating instructions.

CHANNEL PRESETTING — How to preset the channels to be scanned with the channel keys

Your TV has been set at the factory to receive VHF channels 2 through 13 in sequence when you press the CHANNEL keys. 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 channels



1 Set the NORMAL/CATV selector to NORMAL for UHF and to CATV for CATV channels. (Either position will do for VHF.)

2 Select the channel number to be added with the number keys.

3 Press the ADD button.



Channel indicator

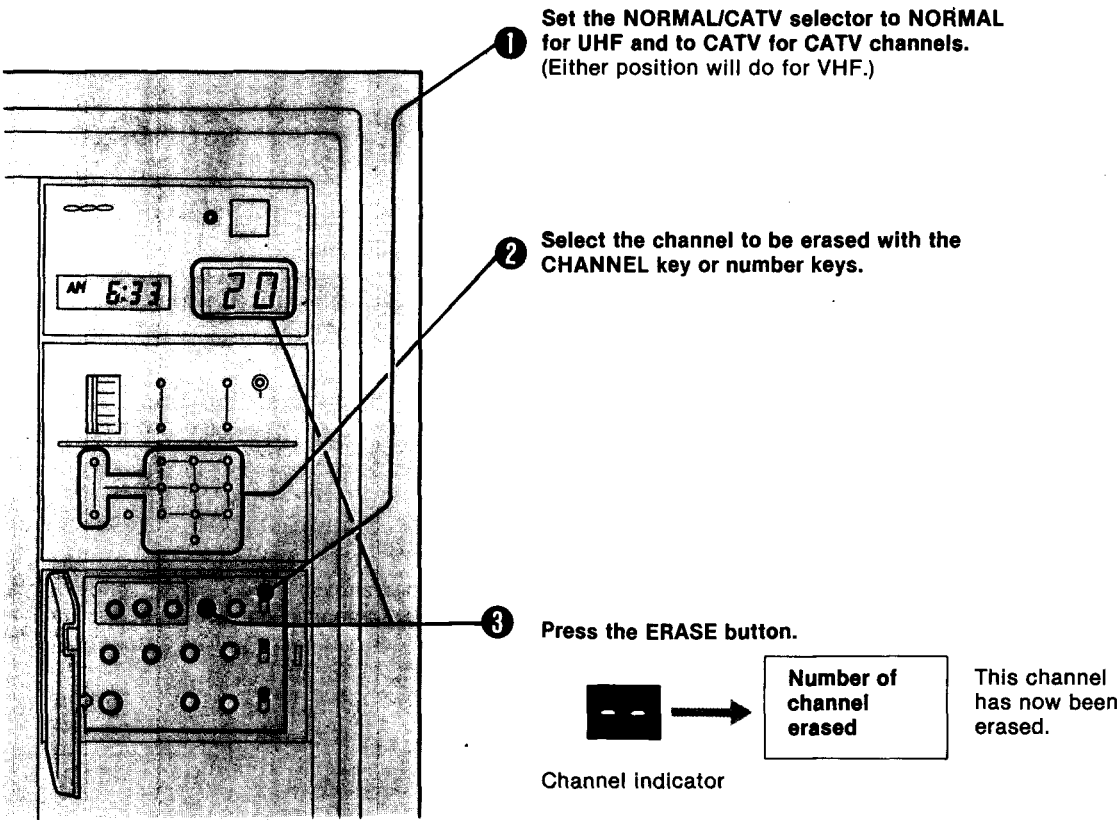
Number of channel added

This channel has now been added.

REPEAT THE ABOVE FOR ALL THE CHANNELS TO BE ADDED.
The channels will be entered in numerical sequence regardless of the adding sequence.

For CATV channel presetting, consult the CATV company in your area.

To erase inactive channels



REPEAT THE ABOVE FOR ALL THE CHANNELS TO BE ERASED.

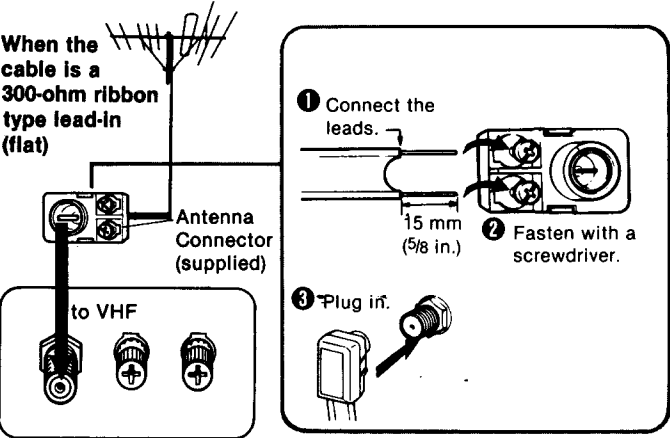
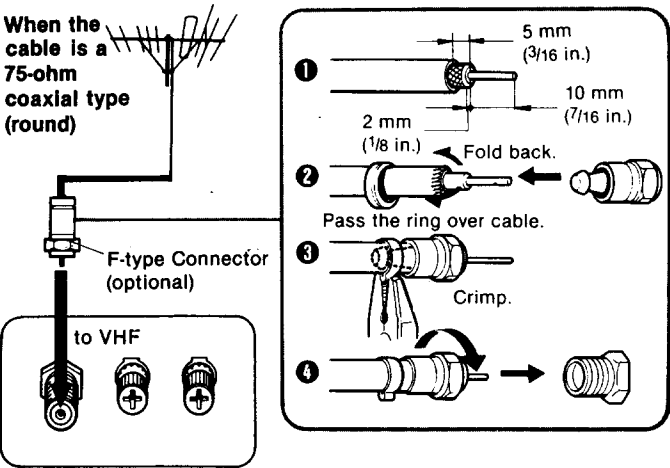
Operating note

It is not possible to erase a UHF channel 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.

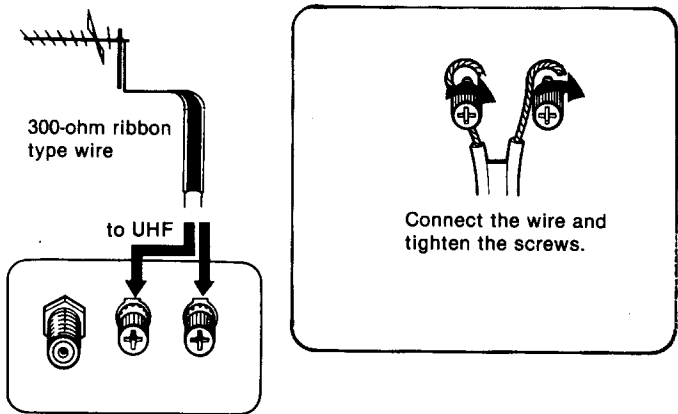
ANTENNA CONNECTION

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

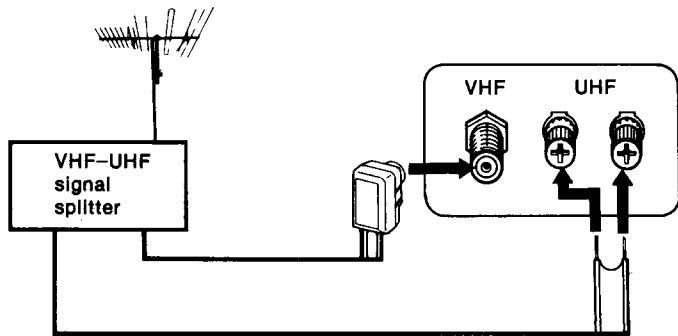


UHF antenna



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.

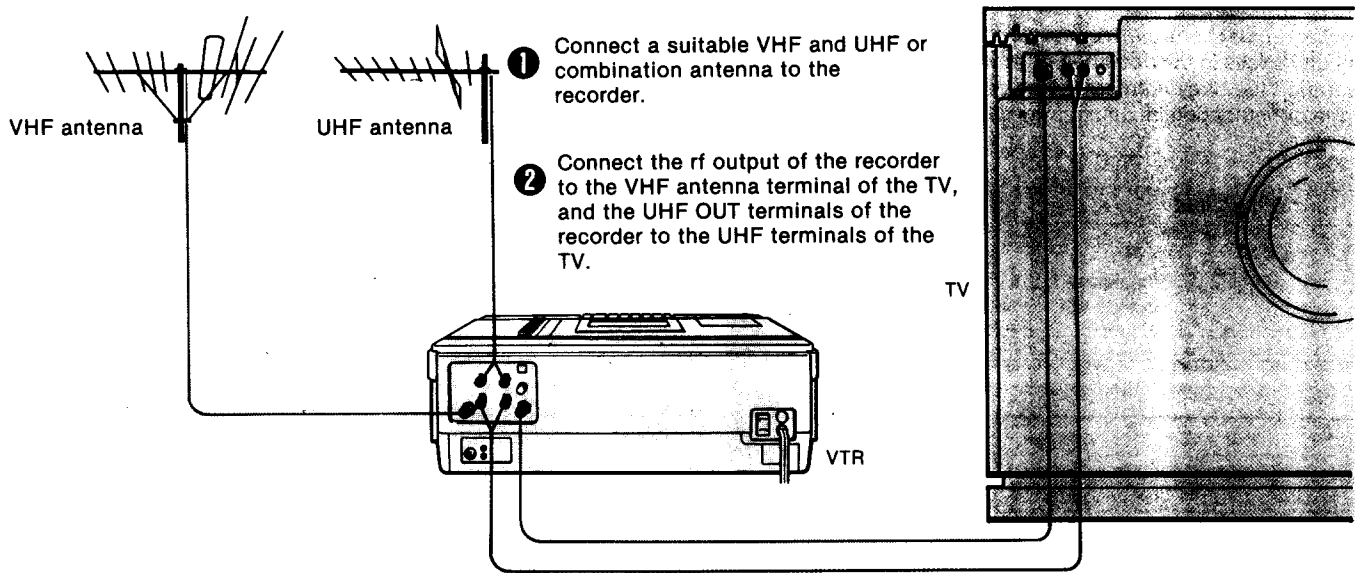


CATV cable

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

VIEWING VTR PLAYBACK

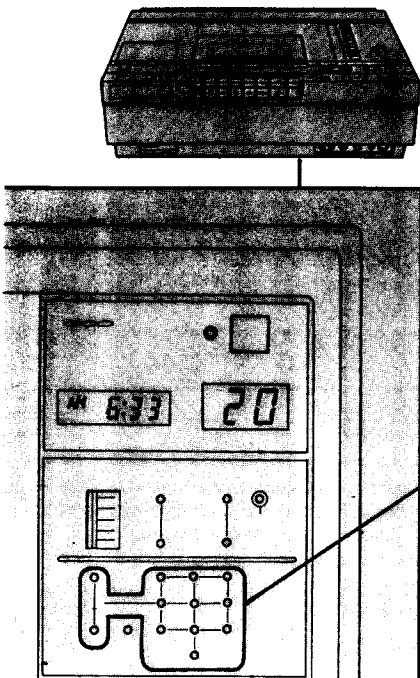
To view the playback picture from a Sony Betamax videocassette recorder (or other VTR) equipped with an rf output terminal.



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

Operation

Sony Betamax
videocassette
recorder







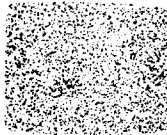



- Adjusting the recorder**
- 1 Set the rf unit channel selector to channel 3 or 4 whichever channel is not active in your area.
 - 2 Set the recorder to the playback mode. (If you do not have a pre-recorded tape, set the TV/VTR selector to VTR and select an active channel with its channel-select button 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 key and 3 or 4 number key, or pressing the upper or lower CHANNEL key. The playback picture will then appear.

Operating note

If the inactive 3 or 4 channel has been erased as described on page 13, the playback picture cannot be selected with the upper or lower CHANNEL key. However, the desired channel selection can again be made as usual with the number keys.

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

SPECIFICATIONS

Television system	American TV standards
Channel coverage	VHF channels 2-13 UHF channels 14-83 CATV mid-band channels A-I super-band channels J-W
Picture tube	Trinitron tube 26-inch picture measured diagonally 100-degree deflection
Antenna	75-ohm antenna terminal for VHF 300-ohm antenna terminals for UHF
Speaker Output	12 cm (4 ⁵ / ₈ inches) dia. MPX output (phono jack) 70 mV rms 5 kilohms, 1 kHz 100% modulation
Power requirements	120 V ac, 60 Hz
Power consumption	160 W (max.) 99 W (average) 4 W (in standby condition)
Dimensions	Approx. 928 × 770 × 583 mm (w/h/d) (36 ⁵ / ₈ × 30 ³ / ₈ × 23 inches)
Weight	Approx. 86 kg (189 lb 10 oz)
Accessories supplied	RM-707 Remote Commander Antenna connector (300-75 ohm matching transformer is built in.)

RM-707 Remote Commander	
Remote control system	Infrared control
Power requirements	3V dc Battery size AA × 2 (IEC Battery Designation R6)
Dimensions	Approx. 60 × 20 × 150 mm (w/h/d) (2 ³ / ₈ × 3/ ₄ × 6 inches)
Weight	Approx. 134 g (4.7 oz) incl. batteries
Accessories supplied	Battery size AA 2 pcs.

Design and specifications are subject to change without notice.