

SONY

TRINITRON® COLOR TV RECEIVER

KV-5300

(STANDARD TV)



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.

4-493-70 (3)

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OWNER'S RECORD

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

Model No. KV-5300 Serial No. _____

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.

CONTENTS

Precautions.....	3
Trinitron color system.....	4
Features.....	5
Location and function of parts and controls.....	6
Power sources.....	10
Normal TV operation.....	14
Channel presetting.....	18
Instructions for additional uses.....	23
Using the KV-5300 with a VTR.....	24
External antenna connection.....	29
Checking the set by yourself.....	30
Specifications.....	31

PRECAUTIONS

USE

- Operate on 12-24 V dc. For ac operation, use the supplied ac power adaptor. Do not use any other equipment. For car battery operation, use the DCC-16AW car battery cord only. Do not use any other equipment.
- **For customers in the U.S.A.:** the supplied ac power adaptor 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.
- Do not attempt to make any of the adjustments at the small holes at the rear of the set. These are special adjustments to be performed only by qualified personnel.
- 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.
- For the set to operate at its best, it should not be installed in a very cold place.

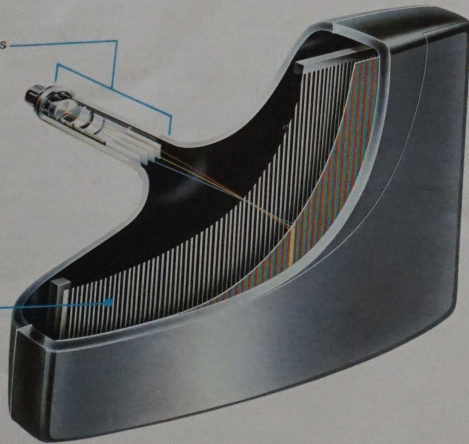
MAINTENANCE

- 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.

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.



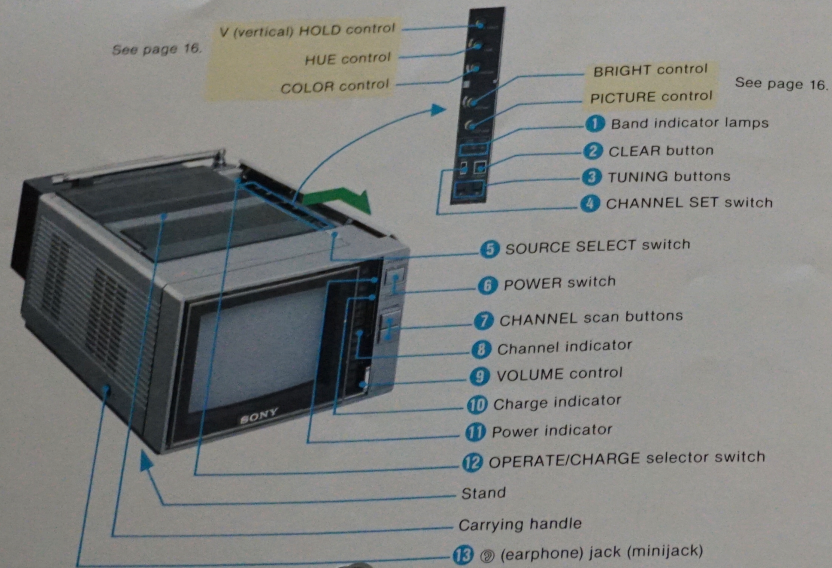
Aperture Grille color selection system for a brighter, sharper picture, less prone to moiré patterns (ripple or wave effect).

FEATURES

- ECONOQUICK, energy-saving quick-start picture system.
- VIDEO OUT and AUDIO OUT jacks for recording TV programs.
- VIDEO IN and AUDIO IN jacks for monitoring external sources.
- Three different power sources; household ac, rechargeable battery, or 12 V-24 V car battery.

LOCATION AND FUNCTION OF PARTS AND CONTROLS

front view



1 Band indicator lamps

Show what band you are tuned to.
 Red lamp: for VHF channels 2-6
 Yellow lamp: for VHF channels 7-13
 Green lamp: for UHF channels 14-83

2 CLEAR button

Press to clear the channel when the CHANNEL SET switch is set to ON. You can skip the cleared channel when you view the TV.

3 TUNING buttons

Press the < button to tune to the lower-numbered channels and the > button to tune to the higher-numbered channels.

4 CHANNEL SET switch

Normally keep this in the OFF position. Set to ON for channel pre-setting.

5 SOURCE SELECT switch

Set to TV for viewing or recording a TV program. Set to VIDEO for viewing the playback of a video tape recorder or monitoring the camera recording. In the VIDEO mode, the channel indicator will go out.

6 POWER switch

Depress to turn on the power. Press again to turn the power off.

7 CHANNEL scan buttons

Press the upper or lower button to scan the channels respectively.

8 Channel indicator

Indicates the channel number.

9 VOLUME control

Slide up or down to regulate the volume.

10 Charge indicator

Lights up in red when the OPERATE/CHARGE selector is set to the CHARGE position.

11 Power indicator

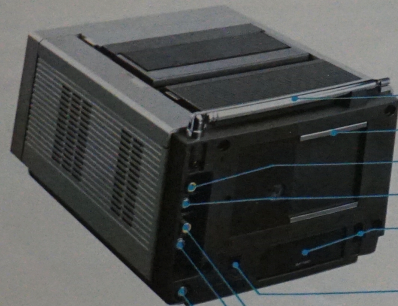
Lights up in green when the power is turned on.

12 OPERATE/CHARGE selector switch

Normally keep this in the OPERATE position; when the battery pack is to be charged, set to the CHARGE position.

13 Ⓜ (earphone) jack (minijack)

Use for listening with an earphone. When an earphone is connected, the loudspeaker will be disconnected. Adjust the volume with the volume control.



- 14 Telescopic antenna
Attach the supplied AC-132 ac power adaptor.
- 15 VIDEO OUT jack (phono jack)
- 16 AUDIO OUT jack (minijack)
- 17 BATTERY compartment and EJECT button
- 18 DC IN 12V-24V jack
- 19 VIDEO IN jack (phono jack)
- 20 AUDIO IN jack (minijack)
- 21 EXT ANT (external antenna) jack (minijack)

14 Telescopic antenna

Adjust the length, direction and angle for the best possible picture.

15 VIDEO OUT jack (phono jack)

Supplies video signals from the TV. Connect this to a video tape recorder to record TV programs.

16 AUDIO OUT jack (minijack)

Supplies audio signals from the TV. Connect this to a video tape recorder or to an audio tape recorder to record TV sound.

17 BATTERY compartment and EJECT button

Insert a NP-1 battery pack (optional) here. Press the EJECT button to remove the battery pack.

18 DC IN 12V-24V jack

Connect the supplied AC-132 ac power adaptor for house current operation, or the DCC-16AW car battery cord.

19 VIDEO IN jack (phono jack)

Use for viewing playback of a video tape recorder or monitoring camera recording.

20 AUDIO IN jack (minijack)

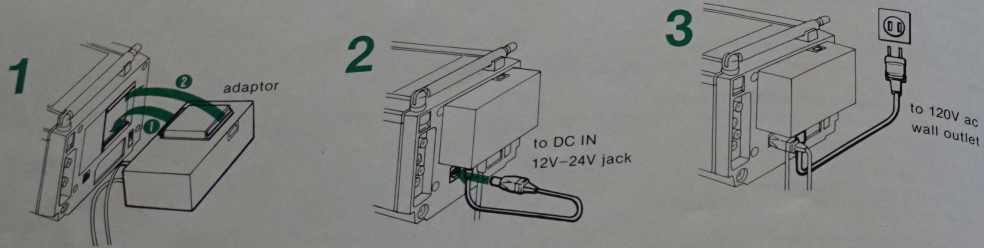
Use for listening the playback of a video tape recorder or monitoring camera (and microphone) recording.

21 EXT ANT (external antenna) jack (minijack)

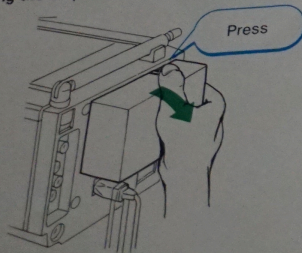
Use for connecting an external TV antenna.

POWER SOURCES FOR HOUSE CURRENT OPERATION

Attach the supplied ac power adaptor and connect the dc and ac cords.



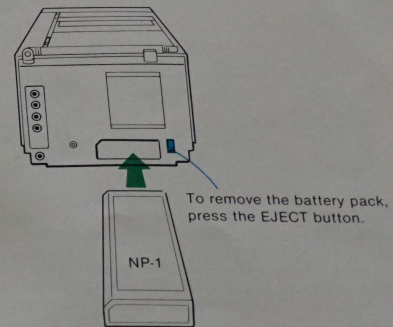
Removing the ac power adaptor



Note
Use only an ac power adaptor manufactured by Sony. The polarity of the plugs of other manufacturers may be different.

FOR RECHARGEABLE BATTERY PACK OPERATION

Insert the Sony NP-1 battery pack (optional) into the BATTERY compartment.



Note

Make sure that the ac power adaptor or the car battery cord is disconnected from the TV. Otherwise, the set cannot be operated on the battery pack.

AFTER EACH USE, BE SURE TO RECHARGE THE BATTERY PACK.

Battery life

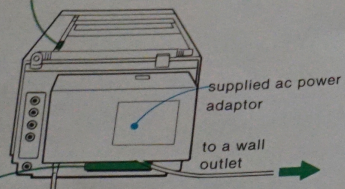
At normal temperatures, you can view the TV for about 70 minutes continuously. You can view the playback of the video tape recorder or monitor the camera recording for about 80 to 90 minutes continuously.

When the battery is exhausted, the power is automatically turned off and the green power indicator will blink. Press the POWER switch and replace the exhausted battery pack with a charged one or use another power source.

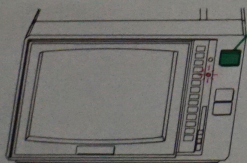
Charging the battery pack

Use the supplied ac power adaptor.
The charging time is about 10 hours at normal temperatures.
We recommend the Sony BC-220 battery charger (optional) or CBC-220 car battery charger (optional) for high-speed charging.
See page 10 for the ac power adaptor connections.

- 2** Set the OPERATE/CHARGE selector switch to CHARGE.



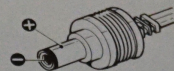
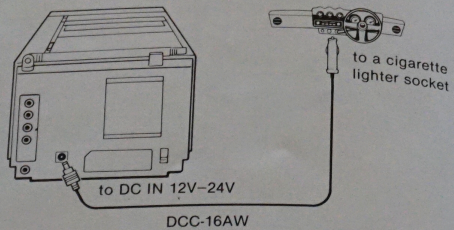
- 1** Insert the battery pack.



- 3** Turn on the power.
Red charge indicator will light.

VEHICLE BATTERY OPERATION

Use the Sony DCC-16AW car battery cord (optional) for a 12/24 V vehicle battery.
For further details, read the instructions with the car battery cord.



Polarity of the plug of Sony car battery cord

Notes

- Use only a car battery cord manufactured by Sony. The polarity of the plugs of other manufacturers may be different.

- The DCC-16AW is designed for use with a 12/24 V negative ground system.
- If you turn on the car ignition while the TV is powered by the car battery, the picture may disappear and the power indicator blink because the TV battery protect circuit has activated. In this case, set the POWER switch to OFF, and wait more than 8 seconds with the car ignition left on before setting the POWER switch to ON again.

NORMAL TV OPERATION

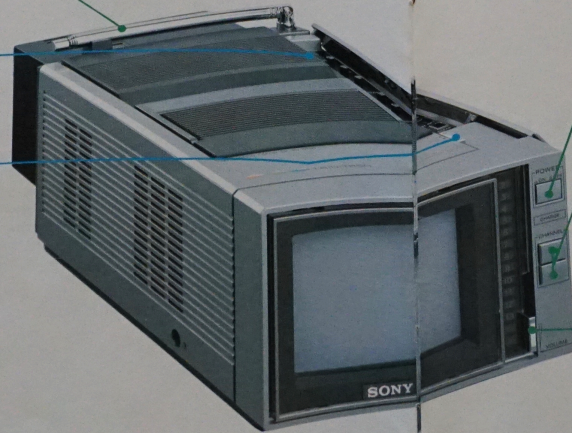
You can select the desired channel by scanning the channels higher or lower with the CHANNEL scan buttons.
For details on presetting channels, see pages 18-22.

TO VIEW THE TV

4 Adjust the length and direction until the picture is clearest.

Check that the OPERATE/CHARGE selector switch is set to OPERATE.

Check that the SOURCE SELECT switch is set to TV.



1 Turn on the power.

2 Select the desired channel.

6
7
8
9
10
11
12

To move the channel indication higher.



To move the channel indication lower.

3 Adjust the volume.

- To change the channels continuously in the sequence, keep pressing the CHANNEL scan button.
- The channel indication will be moved from the highest position to the lowest position, and vice versa.

PICTURE ADJUSTMENTS

Satisfactory results will usually be obtained with the controls set at the center positions. If any adjustments are necessary, adjust the required controls according to picture conditions.



Good picture



To increase or decrease contrast



PICTURE

too weakly-contrasted too strongly-contrasted



PICTURE control: Normally at the center detent position (This control adjusts the contrast, color intensity and brightness simultaneously in the proper ratio.)

Too bright or too dark picture

BRIGHT control

Normally at the center position



BRIGHT

too dark too bright



Skin tones not natural

COLOR control

Normally at the center position



COLOR

too pale too vivid



Skin tones not natural

HUE control

Normally at the center position



HUE

purplish skin greenish skin



If the picture rolls vertically

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



V HOLD



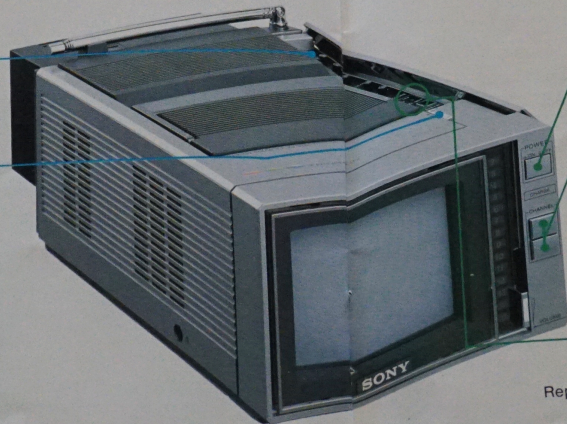
CHANNEL PRESETTING

Each of the 14 channel positions of your TV set can be preset to receive any of the VHF channels 2 through 13 and UHF channels 14 through 83. To preset your desired channels in the desired channel position or to clear inactive or unwanted channels, follow the steps below. When this is done, only the desired channels will appear in sequence when the CHANNEL scan buttons are pressed.

TO PRESET OR REARRANGE DESIRED CHANNELS

Check that the OPERATE/CHARGE selector switch is set to OPERATE.

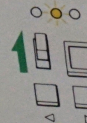
Check that the SOURCE SELECT switch is set to TV.



1 Turn on the power.

2 Select the desired channel position. (To select a skipped channel, first go to step 3, then return to step 2.)

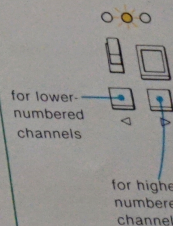
3 Set the CHANNEL SET switch to ON. The band indicator lamp will blink corresponding to the step 2.



Now even if a CHANNEL scan button is pressed, the picture will not be changed.

The channels will not be changed continuously.

4 Tune to the desired channel.



Repeat steps 2 and 4 for all desired channels.

While searching the channel, if the VOLUME control is not set to the minimum position a brief noise is heard.

5 After completing the operation, set the CHANNEL SET switch to OFF.

- Press the button and immediately release it.
- Use the band indicator lamps as guides.
- While UHF channels are tuned in, the green band indicator lamp blinks in 3 speeds.
 - Slow: in the vicinity of UHF channels 14-36
 - Normal: in the vicinity of UHF channels 37-60
 - Fast: in the vicinity of UHF channels 61-83
- When the channel has been memorized, the display will be disturbed momentarily.
- The channel indication will stop at the highest or lowest channel position.

Faster selection of higher-numbered UHF channels

- 1 Turn on the power.
- 2 Receive channel 13 (or highest preset channel) by pressing the CHANNEL scan button.
- 3 Set the CHANNEL SET switch to ON.
- 4 Select the desired channel position by pressing the CHANNEL scan button. Now you can view the same picture at any channel position.
- 5 Tune to the desired channel by pressing the TUNING ▸ button. Channel searching starts from channel 13 and you can select a higher-numbered channel speedily.
- 6 Set the CHANNEL SET switch to OFF.

Faster selection of a lower-numbered channel

- 1 Turn on the power.
- 2 Set the CHANNEL SET switch to ON.
- 3 Select the desired channel position by pressing the CHANNEL scan button.
- 4 Press the CLEAR button and tune to the desired channel by pressing the TUNING ▸ button.
- 5 Set the CHANNEL SET switch to OFF.

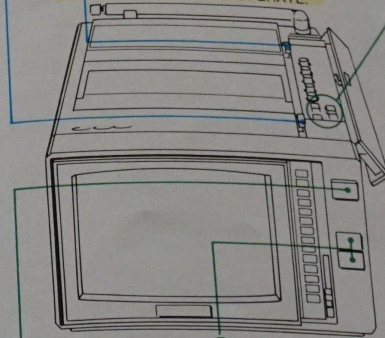
Note

Searching may sometimes stop between channels in strong signal area. In that case, press the appropriate TUNING button again.

TO CLEAR CHANNELS

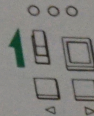
Check that the SOURCE SELECT switch is set to TV.

Check that the OPERATE/ CHARGE selector switch is set to OPERATE.

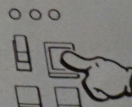


- 1 Turn on the power.
- 2 Select the desired channel position.

- 3 Set the CHANNEL SET switch to ON.



- 4 Press the CLEAR button.



- 5 After completing the operation, set the CHANNEL SET switch to OFF.

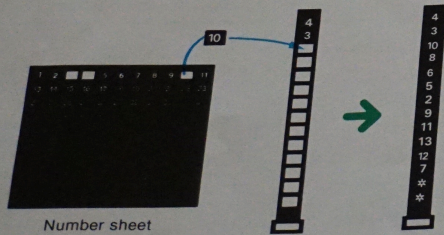
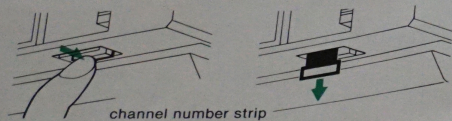
Repeat steps 2 and 4 for all desired channels.

To add once-erased channels again

- 1 Turn on the power.
- 2 Set the CHANNEL SET switch to ON.
- 3 Select the desired channel position by pressing the CHANNEL scan button.
- 4 Tune to the desired channel by pressing the appropriate TUNING button.
- 5 Set the CHANNEL SET switch to OFF.

WHEN ALL STATIONS HAVE BEEN SET UP

- 1 Remove the channel number strip and replace with correct segments from supplied number sheet.



- 2 Replace the strip.

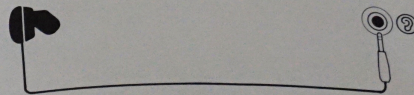
Check that the correct channels are preset by pressing the CHANNEL scan button.

For customers in U.S.A.

To use your TV set with a cable television system, contact a representative of the cable company for instructions regarding channel selection. In most cases, this adjustment will be made by the cable company at the time of installation.

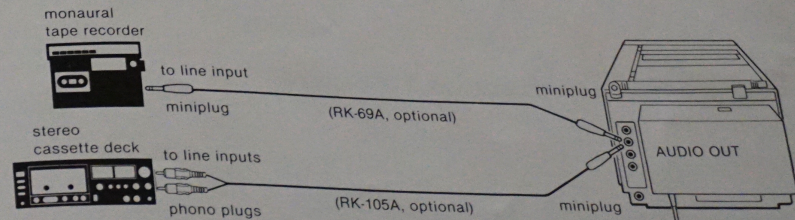
INSTRUCTIONS FOR ADDITIONAL USES

To listen with the earphone (supplied)



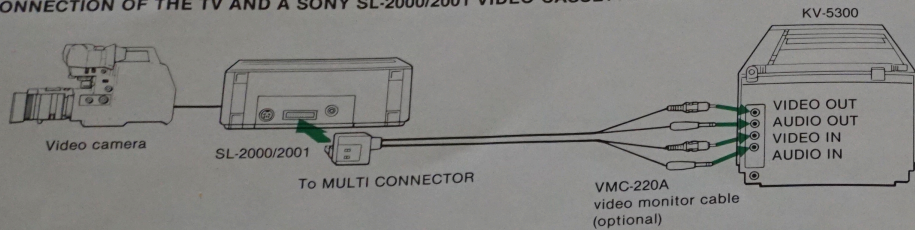
To record the TV sound

Using the AUDIO OUT jack on the rear panel

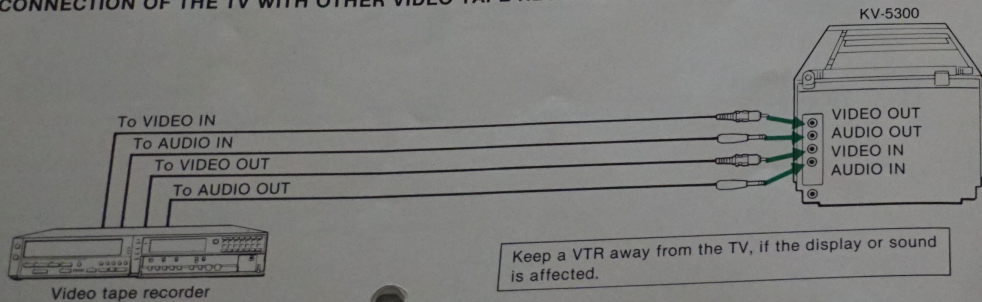


USING THE KV-5300 WITH A VTR

CONNECTION OF THE TV AND A SONY SL-2000/2001 VIDEO CASSETTE RECORDER



CONNECTION OF THE TV WITH OTHER VIDEO TAPE RECORDERS

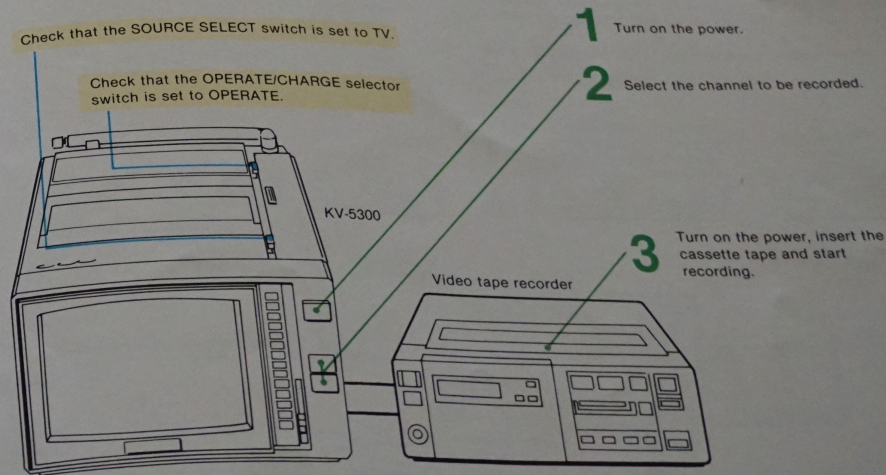


Keep a VTR away from the TV, if the display or sound is affected.

TV PROGRAM RECORDING

Check that the SOURCE SELECT switch is set to TV.

Check that the OPERATE/CHARGE selector switch is set to OPERATE.

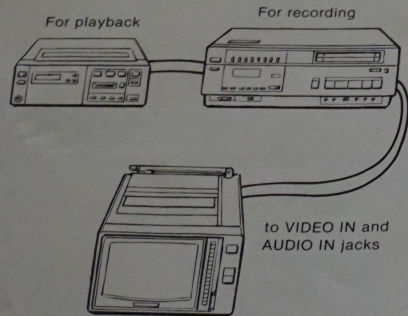


Notes

- Disconnect the microphone from the video tape recorder.
- If the microphone is connected to the video tape recorder, only the sound from the microphone will be recorded.
- Picture and sound adjustments can be made without affecting the recording.

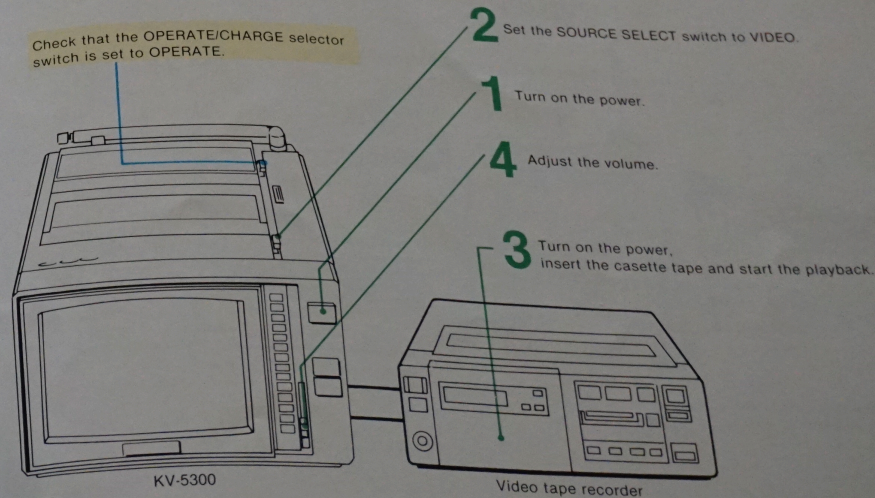
When using VIDEO OUT and AUDIO OUT jacks

- These jacks are for the output of a TV signal only. To receive a TV signal from VIDEO OUT and AUDIO OUT jacks, set the SOURCE SELECT switch to TV.
- Connect as follows to use two video tape recorders for a tape copy.



PLAYBACK

Check that the OPERATE/CHARGE selector switch is set to OPERATE.



While viewing, you can adjust the picture with the controls on the TV.

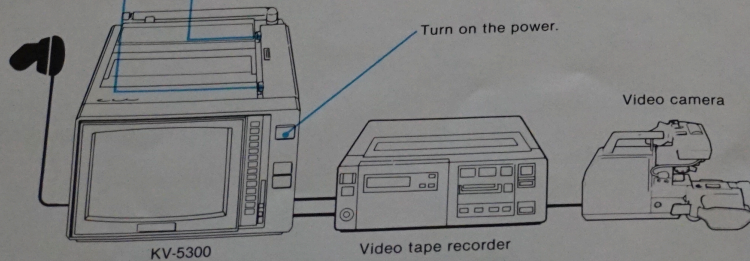
FOR CAMERA RECORDING

Set the SOURCE SELECT switch to VIDEO.

Check that the OPERATE/CHARGE selector switch is set to OPERATE.

Turn on the power.

Use the earphone for monitoring recorded sound to prevent a howling effect.

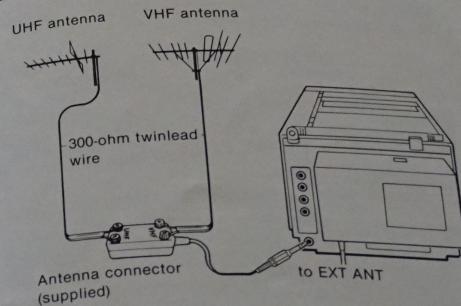


For the detailed operation of the video tape recorder, please read its instruction manual.

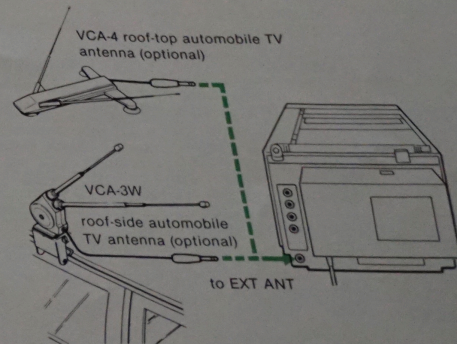
EXTERNAL ANTENNA CONNECTION

In most reception areas, the built-in telescopic antenna should be adequate for good reception. However, if you cannot obtain satisfactory reception with it, the use of an external or outdoor antenna is recommended.

External antenna



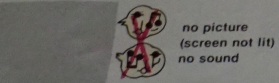
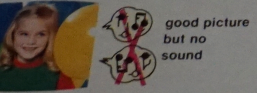
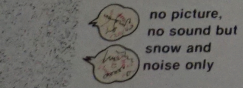
Car antenna






Note
When an external antenna is to be used, retract the telescopic antenna.

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"> ● Plug the set into a working outlet. ● Press the power switch. ● Set the OPERATE/CHARGE selector switch to OPERATE. ● Set the SOURCE SELECT switch to TV.
 <p>good picture but no sound</p>	<ul style="list-style-type: none"> ● Unplug the earphone from the earphone jack. ● Slide the volume control upper.
 <p>no picture, no sound but snow and noise only</p>	<ul style="list-style-type: none"> ● Adjust the indoor antenna. ● Check the outdoor antenna. ● Check that a correct channel is selected.

SYMPTOM	CORRECTION
 <p>pale color</p>	<ul style="list-style-type: none"> ● Check that the COLOR control is not turned fully counterclockwise.
 <p>dotted lines or stripes</p>	<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.
 <p>double images or "ghosts"</p>	<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	Power consumption	27 W ac (max.) with AC-132 ac power adaptor
Channel coverage	VHF channels 2-13		17 W dc (in 12-24 V operation)
Picture tube	UHF channels 14-83	Dimensions	Approx. 190 × 153 × 298 mm (7 1/2 × 6 1/8 × 11 3/4 inches)
	Trinitron tube	Weight	incl. projecting parts and controls
	5-inch picture measured diagonally		Approx. 3.9 kg (8 lb 10 oz)
	55-degree deflection	Accessories supplied	excl. AC-132, accessories and batteries
Antenna	Telescopic antenna for VHF and UHF		AC power adaptor AC-132 (1)
	75-ohm external antenna jack for VHF and UHF		Earphone ME-21 (1)
	7.7 cm (3 inches) dia.		External antenna connector (1)
Speaker			Channel base (1)
Inputs/outputs			Number sheet (1)
		Optional accessories	Battery pack NP-1
			Car battery cord DCC-16AW
			Car antenna VCA-3W, VCA-4
			Battery charger BC-220
			Car battery charger CBC-220
			Battery pack case BCP-220

Connector	Signal level	Remarks
VIDEO IN (phono jack) VIDEO OUT (phono jack)	1 V (p-p)	NTSC 75 ohms unbalanced sync negative
AUDIO IN (minijack)	-5 dBs	input impedance 47 kilohms
AUDIO OUT (minijack)	-0.5 dBs	output impedance 5 kilohms
Earphone (minijack)	for 8-ohm earphone or load impedance 10 kilohms or higher	

Power requirements
120 V ac, 60 Hz with supplied AC-132 ac power adaptor
12 V dc, with optional Sony NP-1 battery pack
12/24 V car battery with optional Sony DCC-16AW car battery cord

Design and specifications are subject to change without notice.