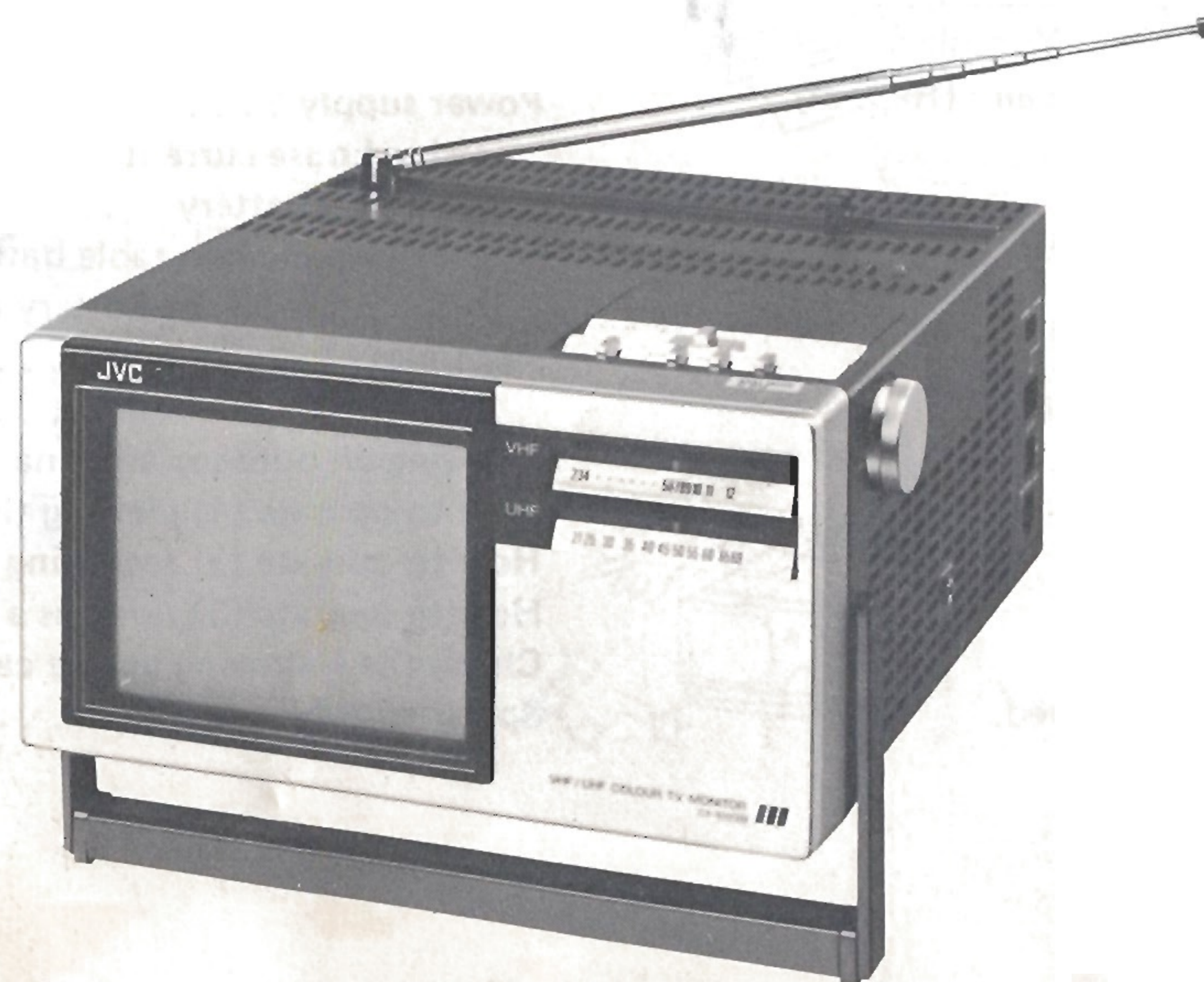


JVC | Instruction Book

COLOUR TV MONITOR **CX-610GB**



Precaution on AC power connection
Before connecting mains lead to the house current receptacle, be sure to set the line voltage selector to the position corresponding to your local voltage; 240 V, 220 V, 127 V, 110 V.

INTRODUCTION

This set is PAL/SECAM capable.
 It will function on neither French SECAM nor NTSC (for U.S.A. and other areas).
 It can be operated in the countries listed below:

Algeria	Italy	Singapore
* Australia	Ivory Coast.	* South Africa
Austria	Jordan	Spain
Bahrain	Kenya	Sweden
* Belgium	Kuwait	Switzerland
Bulgaria	Lebanon	Tahiti
Canary Islands	Liberia	Thailand
Ceuta	Libya	Togo Rep.
* China (People Rep.)	Malaysia	Tunisia
Congo (Rep. of)	Mauritius	Uganda
Cyprus	Melilla	U.A.E.
Czechoslovakia	* Morocco	Egypt
Denmark	Netherlands	United Kingdom
Finland	New Caledonia	U.S.S.R.
Gabon	* New Zealand	Yugoslavia
Germany (Fed. Rep.)	Nigeria	Zaire (Rep. of)
Germany (Dem. Rep.)	Norway	
Greece	Oman	
Guinea (French)	Pakistan	
Hong Kong	Poland	
Hungary	Qatar	
Indonesia	Reunion	
Iran	Saudi Arabia	
Iraq	Sierra Leone	
* Ireland		

Asterisk (*) mark indicates that certain channels can not be received.

Optional Accessories

Battery Case (Model BC-60E)
 Rechargeable Battery Pack (Model CB-25E)
 Car Adapter (Model AP-23, exclusive use with 12 V)
 Carrying Case (Model CC-60E)

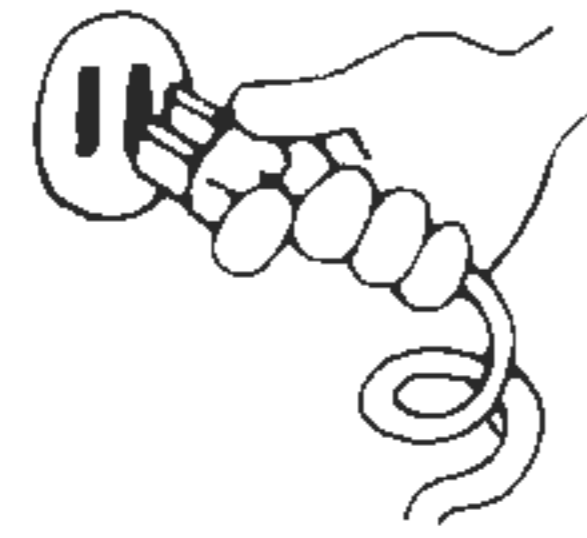
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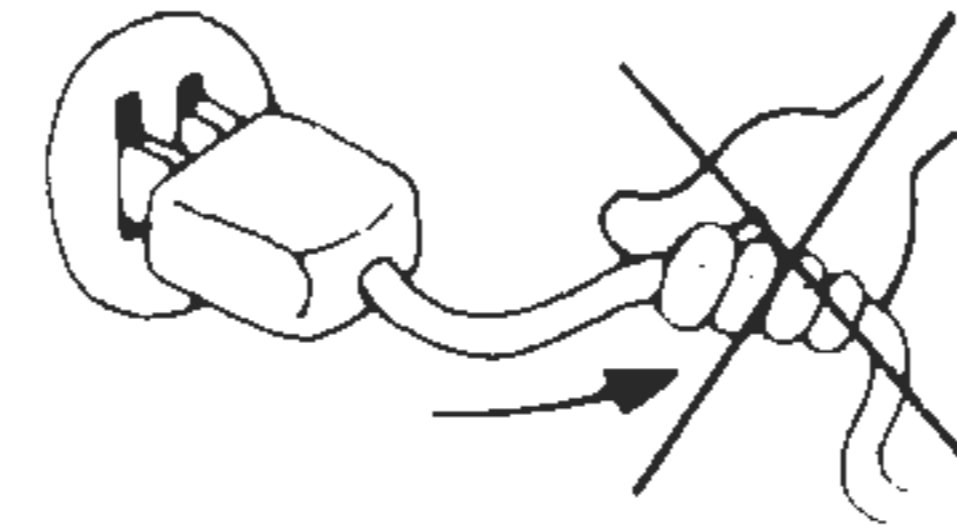
SAFETY PRECAUTIONS (1)

THE POWER CORD PROTECTION

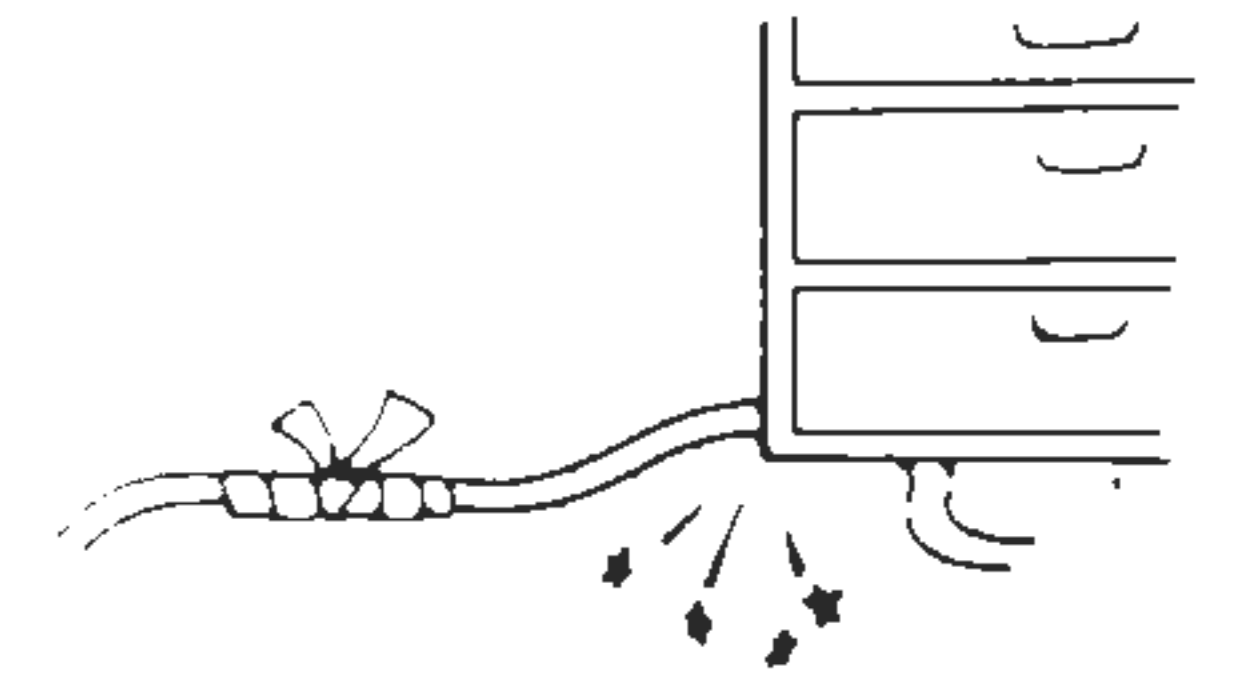
Use the plug to connect the set to an AC outlet.



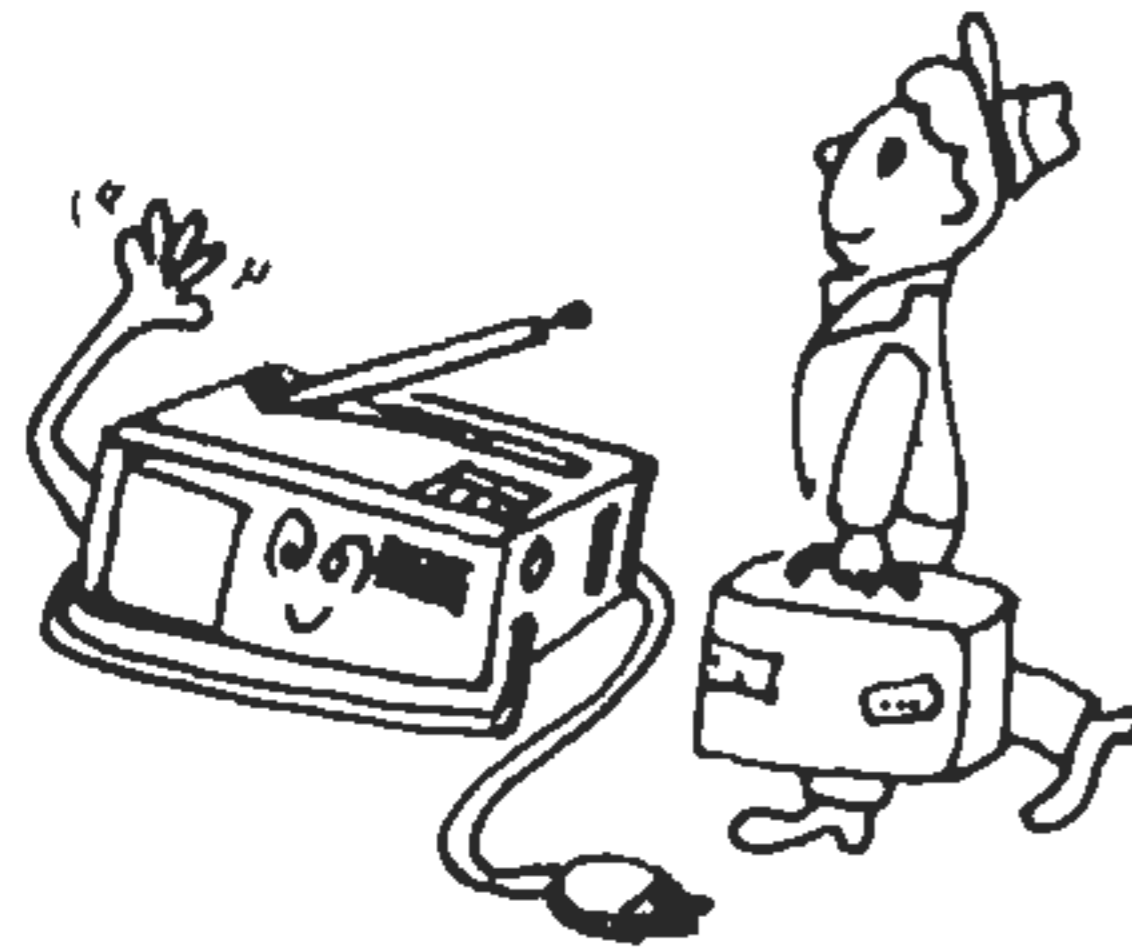
Do not pull directly the power cord, but grip the plug.



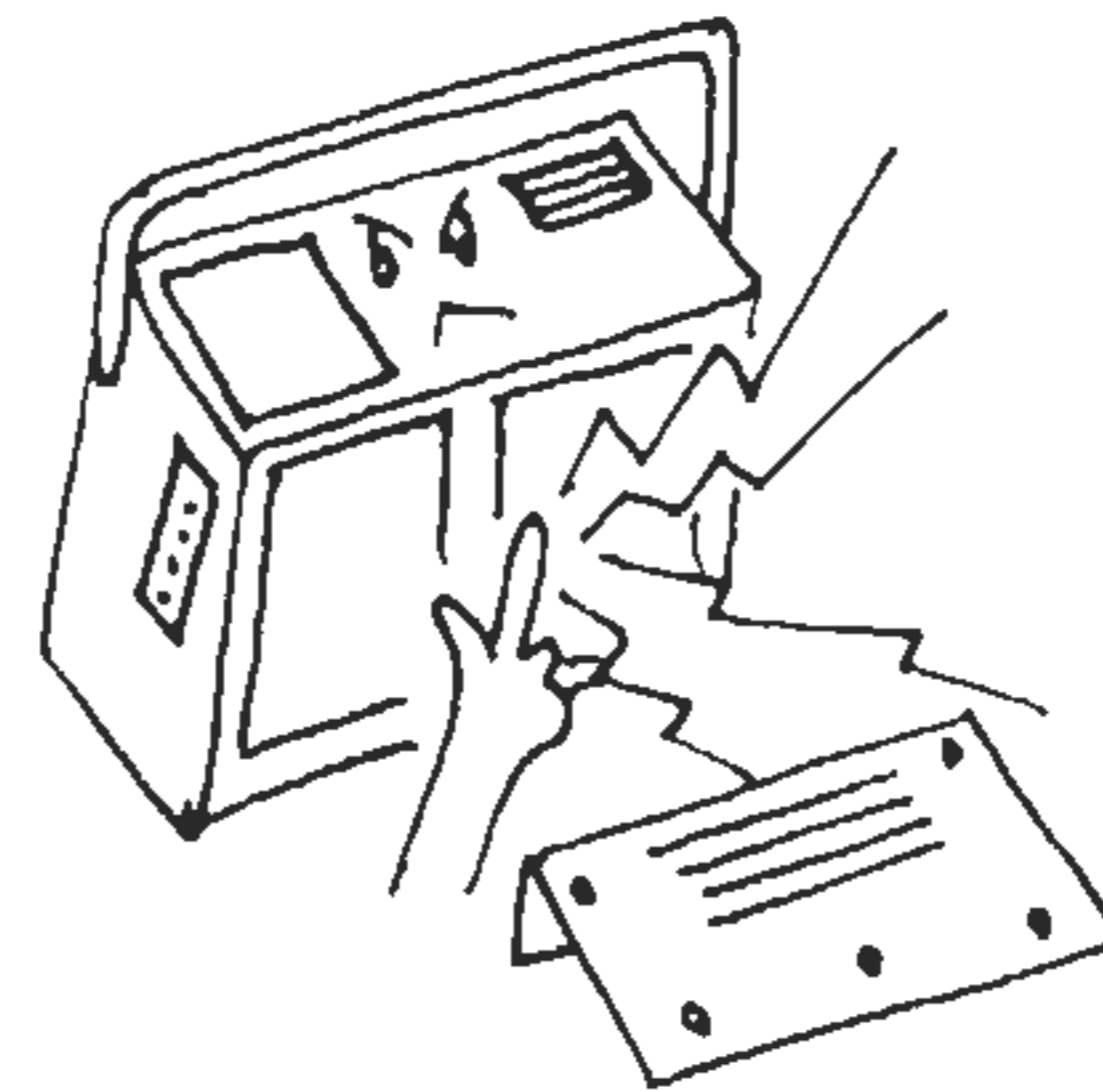
Do not bend or severely scrape the cord, nor stretch it.



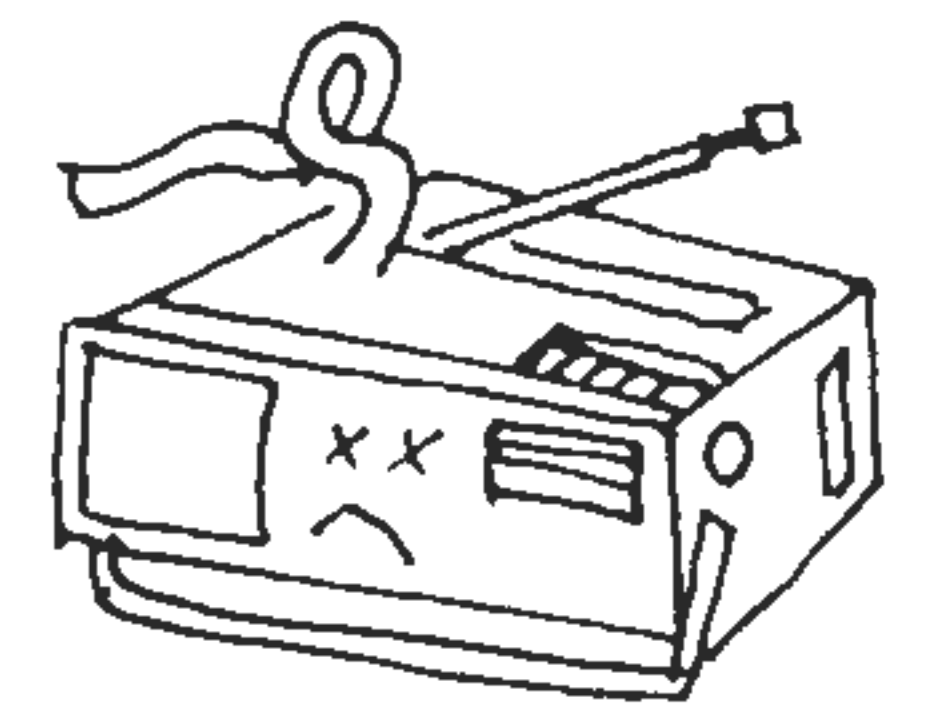
Unplug the set from the AC outlet when the set is not operated for a long period of time.



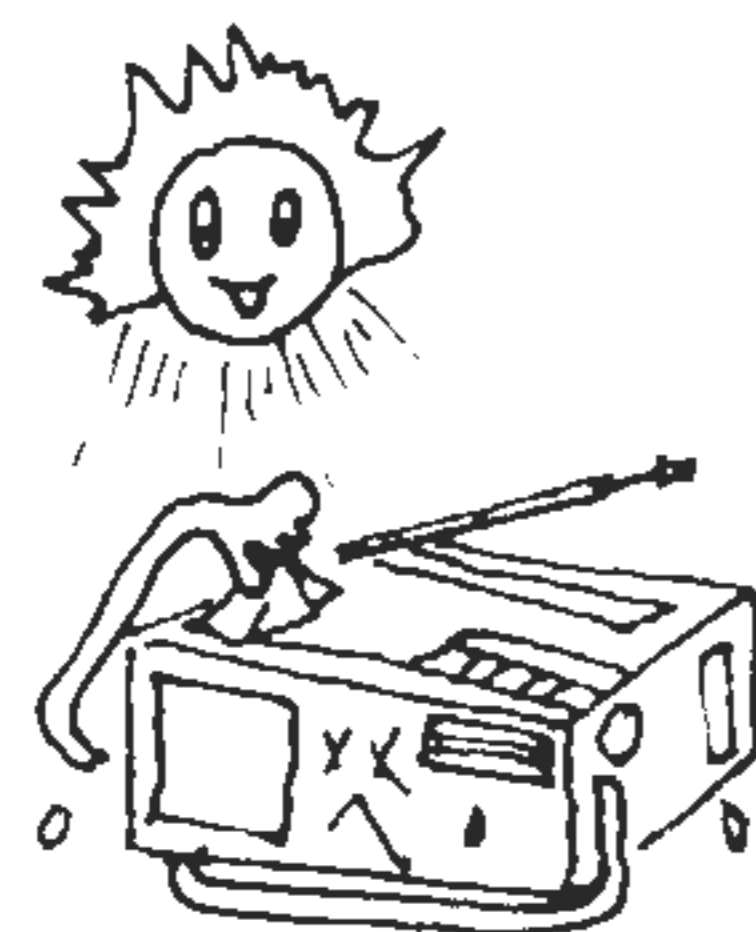
Do not remove the back cover of the set. You might get an electric shock by the high voltage.



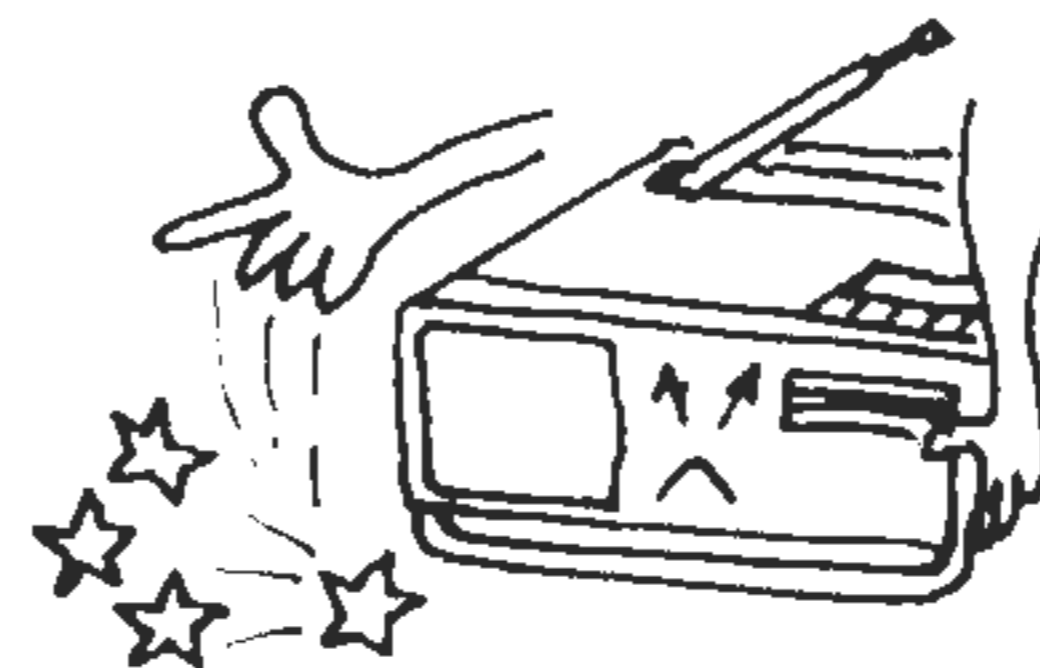
Never insert objects into the set through cabinet slots as it is possible to touch dangerous voltage points.



Do not leave the set in direct sunlight, near or over a heater, especially in a parked car, unless the windows are open.



Do not bump or jolt the set, especially the picture tube.

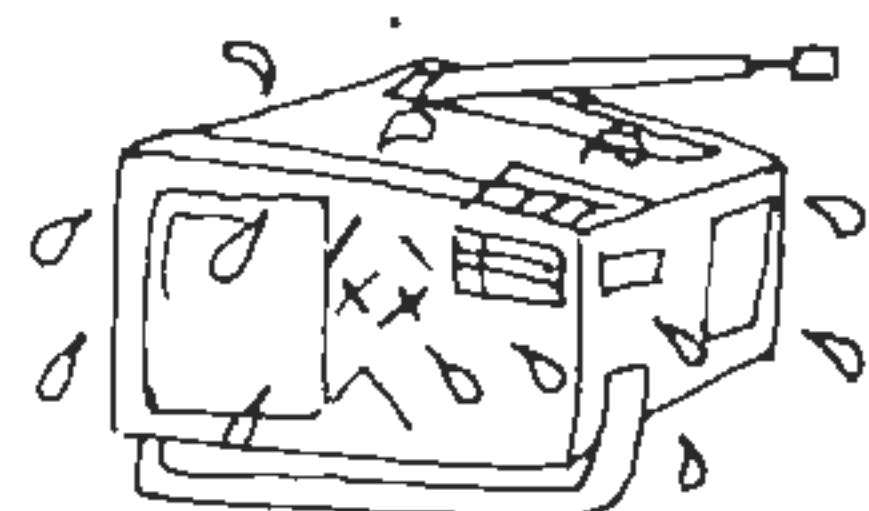


Do not cover or block any of the ventilation slits of the set with bedding, a rug, etc.

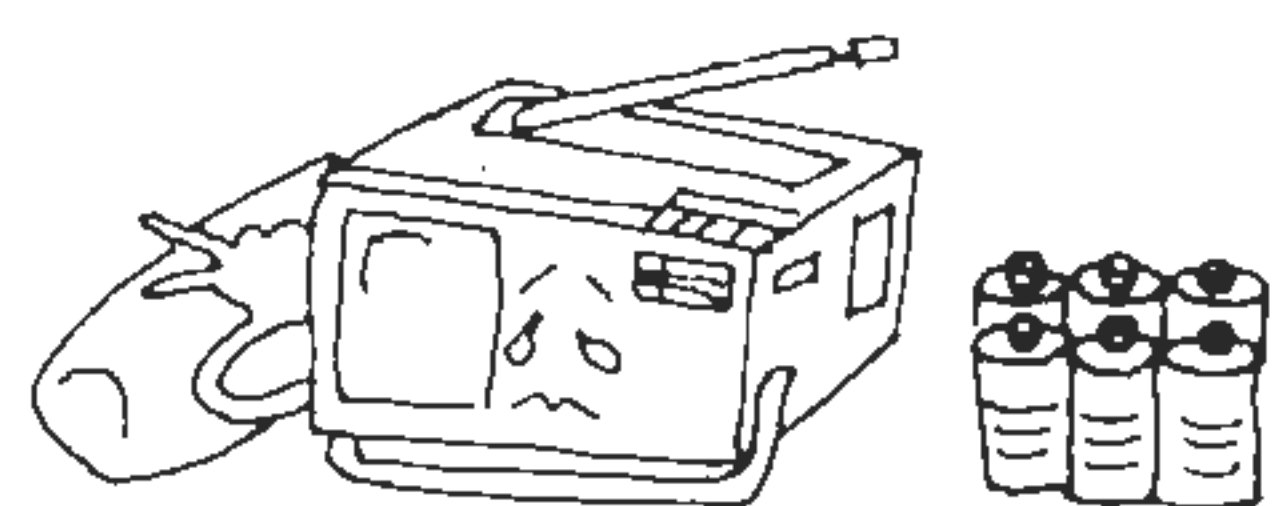


SAFETY PRECAUTIONS (2)

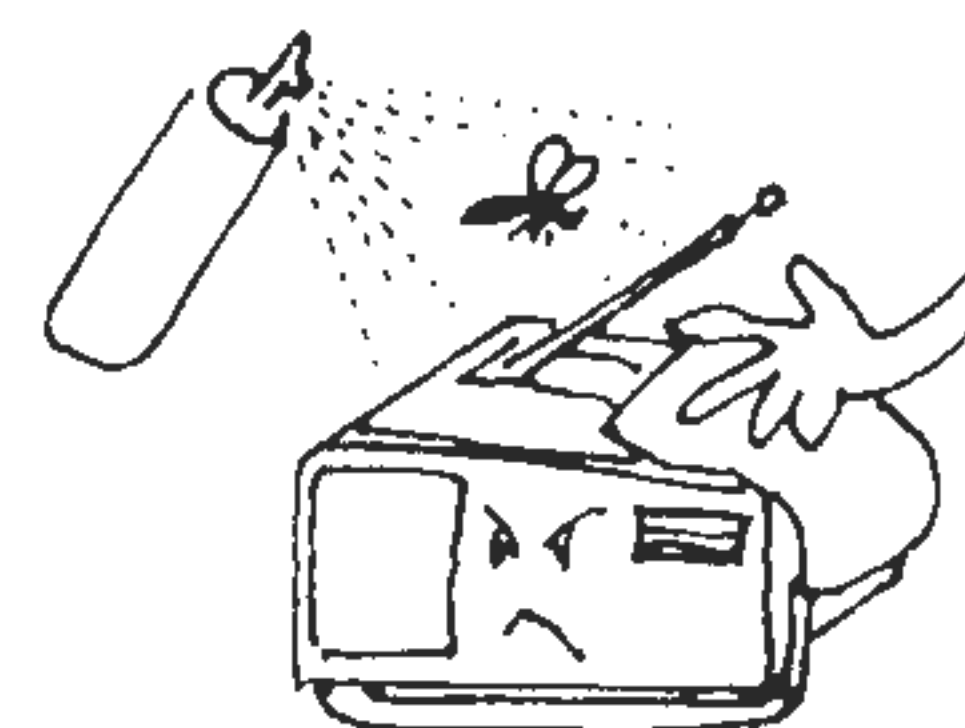
The set may not operate if quickly moved from a cold (less than 0°C) place to a hot place (i.e. from outdoors to indoors in winter). In this case, allow about 30 minutes for the drying of moisture condensation.



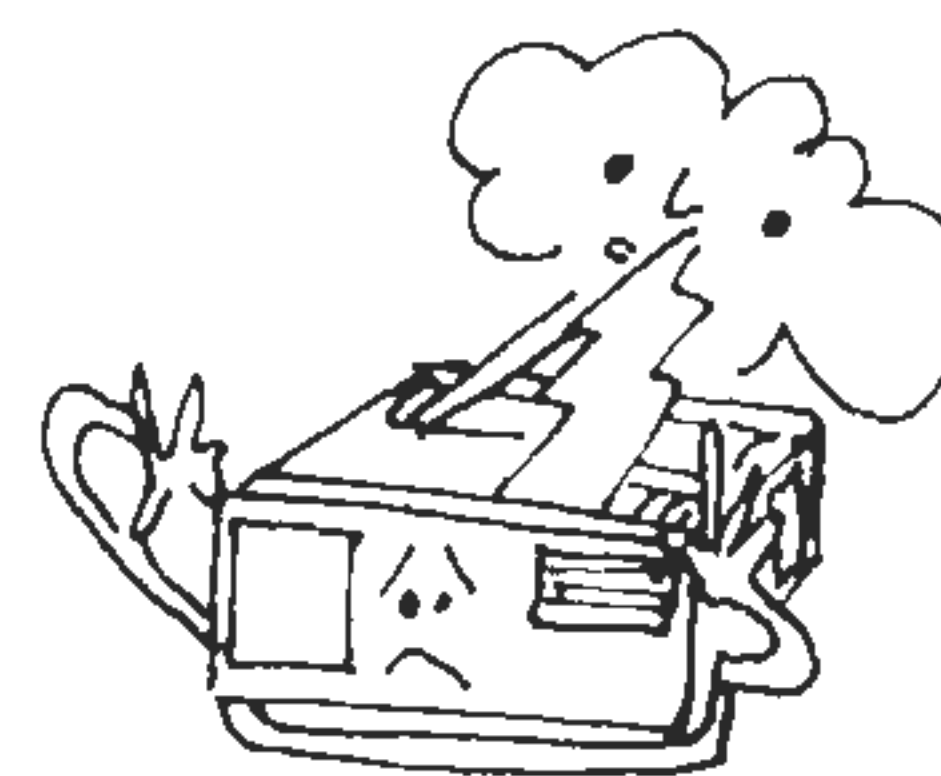
Remove the batteries from the set to protect the case or mechanism from possible battery leakage, when the set is not operated on batteries for a long period of time.



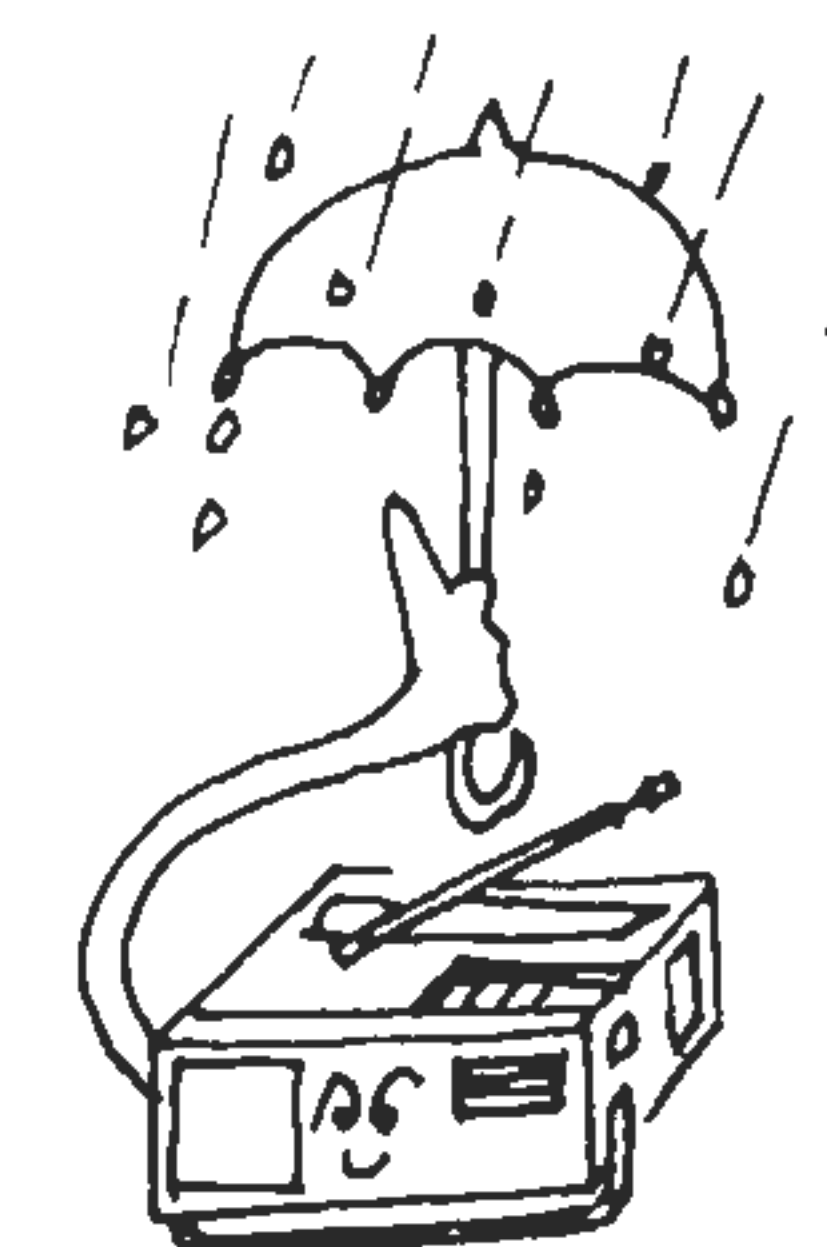
When the set, especially the face of the picture tube, is dirty, clean with a soft cloth soaked in soapy water. Do not use benzene, thinner or fly spray as it will cause a deterioration of the surface finish or cracks in the cabinet.



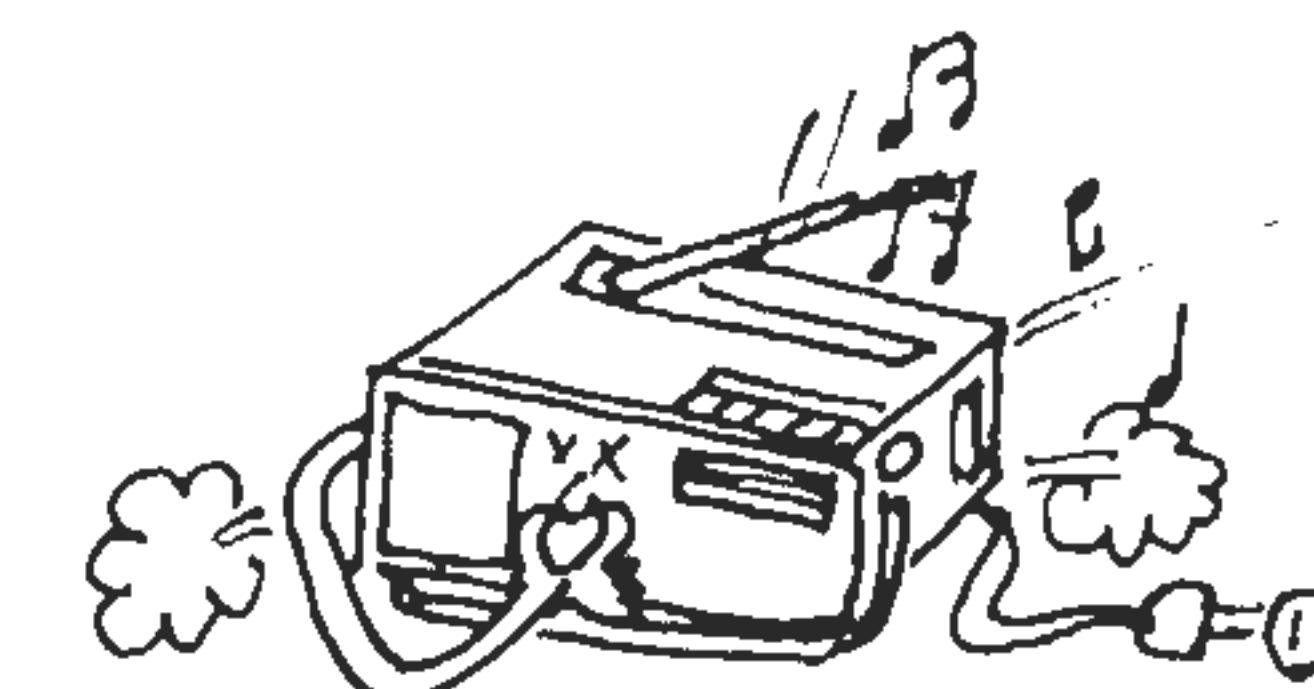
For added safety during a lightning storm, unplug the set from a wall outlet and outdoor antenna.



Do not expose the set to rain or moisture to prevent fire or shock hazards and also do not use it in a bathroom while operating on AC current.



If you are unable to restore normal operation by this manual, turn the set off and call your dealer or service technician.



Fluctuation of power voltage

Too high or too low power voltage may often cause trouble to the set and decrease its performance. In such a case, call your electric company to check your power voltage.

Static electricity on picture tube

Sometimes you may feel static electricity when you touch the surface of the picture tube. However, this is normal for any TV set and is harmless to the human body.

Do not bring magnetic devices near the picture tube

Do not bring magnetic devices such as magnets or motors near the picture tube. These things have a bad effect on the colour purity of the picture.

Brightness of room

Watching television in extremely bright or dark rooms is very tiring for your eyes. If sunlight shines directly into your room, use curtains to reduce the brightness.

NAMES OF PARTS AND THEIR FUNCTIONS (1)

VHF-channel (2 – 12) select button
When receiving VHF broadcasts, press this button.

UHF-channel (21 – 69) select button
When receiving UHF broadcasts, press this button.



Dial light button
The needle within the VHF/UHF channel dial scale will be illuminated while this button is kept pressed, in order to facilitate tuning.

Mains (AC Power) indicator
The indicator lights when the set is operated on AC power. The indicator does not light during battery operation.

Slide volume control
Increase sound by sliding to the right.

Rod antenna
Employ to receive either VHF or UHF broadcasts. Refer to the section "Antenna" on page 8 for further details.

VHF/UHF TV tuning knob
Turn this knob to tune to the desired TV broadcast.

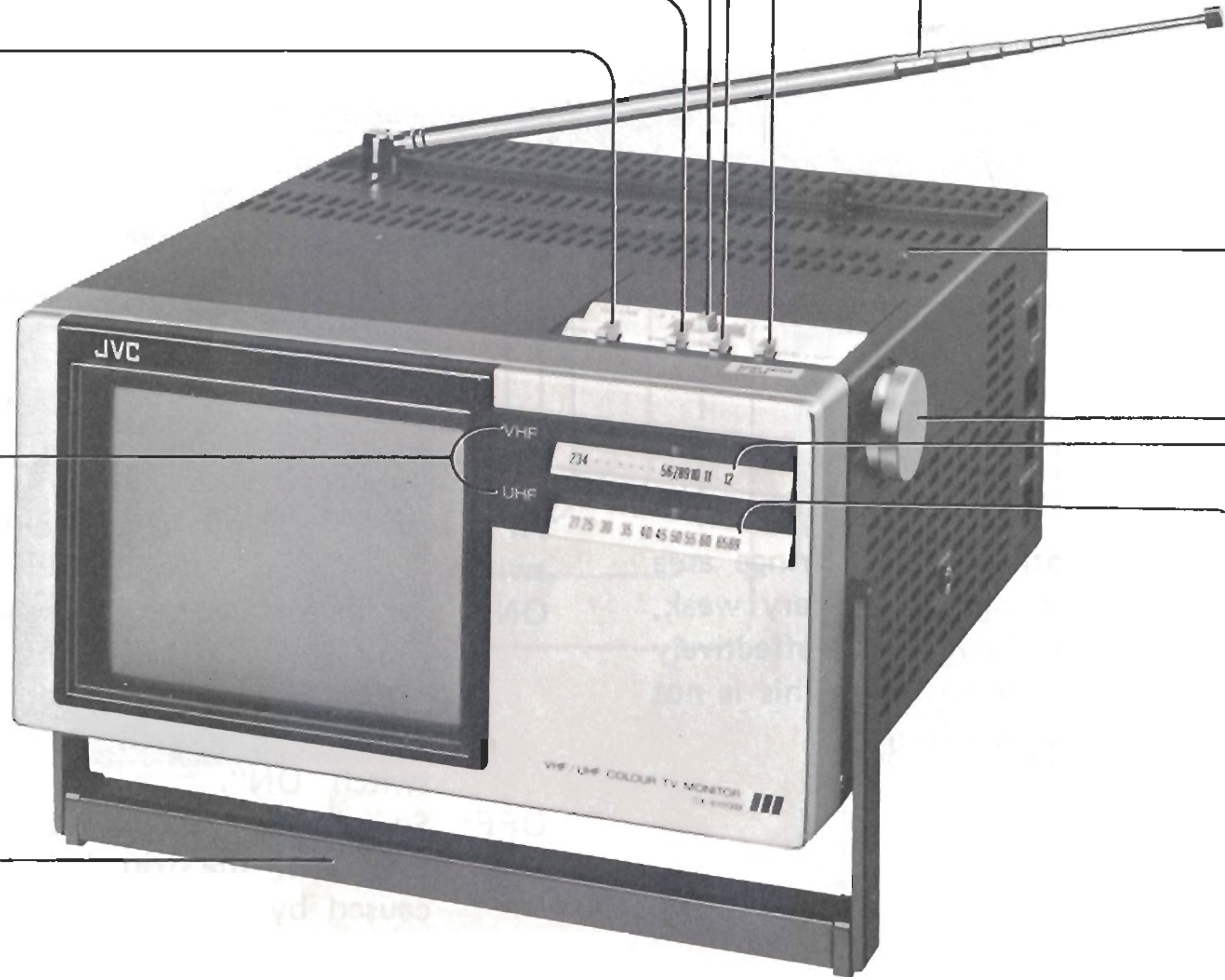
Power button
The VHF or UHF reception indicator will be illuminated by pressing this button.
Allow about 5 seconds for a picture to appear.
Press () ON
Press again () OFF

VHF/UHF reception indicator

VHF-channel dial scale
When receiving VHF broadcasts, turn the "TV tuning knob" referring to the channel numbers on this scale.

Handle
Position this handle to the desired angle when carrying or placing the set on a table, etc.

UHF-channel dial scale
When receiving UHF broadcasts, turn the "TV tuning knob" referring to the channel numbers on this scale.



NAMES OF PARTS AND THEIR FUNCTIONS (2)

Audio input jack

Connect the audio output of video cameras or VTRs to this jack when monitoring.

Video input jack

Connect the video output of video cameras or VTRs to this jack when monitoring.

75 Ω aerial socket

Connect the coaxial cable (75 Ω) or connect the aerial transformer (300 Ω \rightarrow 75 Ω) into this socket.

TV sound switch

Set this switch to the position corresponding to the sound frequency in your area.

5.5 MHz: CCIR countries

6.0 MHz: United Kingdom etc.

6.5 MHz: OIRT countries

Vertical hold control

Turn this knob to stop vertical rolling of the picture.

Colour system switch

AUTO: This model automatically selects either PAL signal or SECAM signal when set to the "AUTO" position.

PAL: Proper colour picture may not be obtained if PAL colour signal reception is poor in your area.

In such a case, set this switch to "PAL" position which is more effective for PAL colour TV reception.

Monitor switch

TV: Set to the TV position when receiving a TV broadcast.

EXT: Set to the EXT position when using as a video monitor by connecting a video camera or a VTR to the video input jack and audio input jack.

Video output jack

Connect this VIDEO OUT to a VTR for recording the video of off-air TV broadcasts or to another TV monitor for viewing.

Audio output jack

Connect this AUDIO OUT to a VTR for recording the sound of off-air TV broadcasts or to another TV monitor for listening.

Picture control knob

Turn this knob to the right to increase contrast. Colour intensity changes simultaneously.

The word "MONITOR" used in this instruction booklet means being able to view pictures on the TV screen that are being played back with a VTR or are being shot with a video camera.

Brightness control knob

Turn the knob to the right to brighten the picture. (The normal setting for this knob is at the center, click-stop position.)

Sub brightness control

Do not adjust the sub-control. (This is for service personnel only.) Brightness is adjusted to the optimum at the factory.

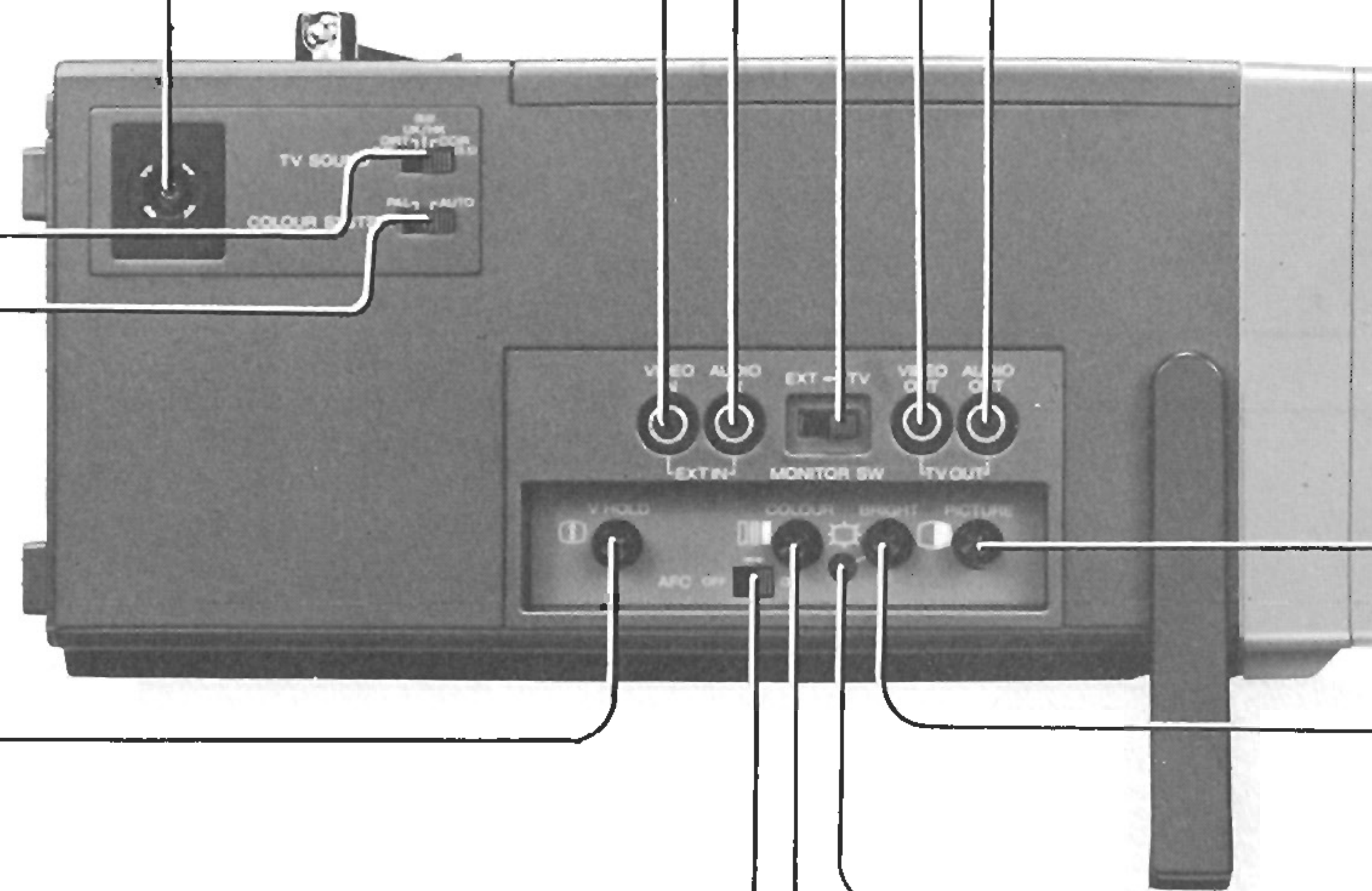
AFC (Automatic fine-tuning control) switch

ON: Set to this position; there is no need to make fine-tuning adjustment since it automatically fine tunes. Normally keep the switch "ON".

OFF: Switch off AFC for fine tuning only when the striped pictures, caused by signal obstructions, etc., appear on the screen.

Colour control knob

Turn to the left for paler colours and to the right for more vivid colours. (The normal setting for this knob is at the centre, click-stop position.)



If your location is in a fringe area where colour signals are very weak, colour pictures may not be effectively obtained at any position. This is not due to the receiver itself.

NAMES OF PARTS AND THEIR FUNCTIONS (3)

Charging switch

Set to the CHARGE position when recharging the optional rechargeable battery pack (Model CB-25E) and to NORMAL when not recharging a battery pack.

THIS SET DOES NOT WORK WHEN THIS SWITCH IS SET TO THE "CHARGE" POSITION.

Note on the charging switch

Switch off the power supply before setting the charging switch to the NORMAL position, otherwise malfunctioning will result.

Earphone jack

Connect an earphone.

Dry-cell/Rechargeable battery input terminal

Connect the plug of the optional battery case (Model BC-60E) or rechargeable battery pack (Model CB-25E).

DC input jack (DC 12 V)

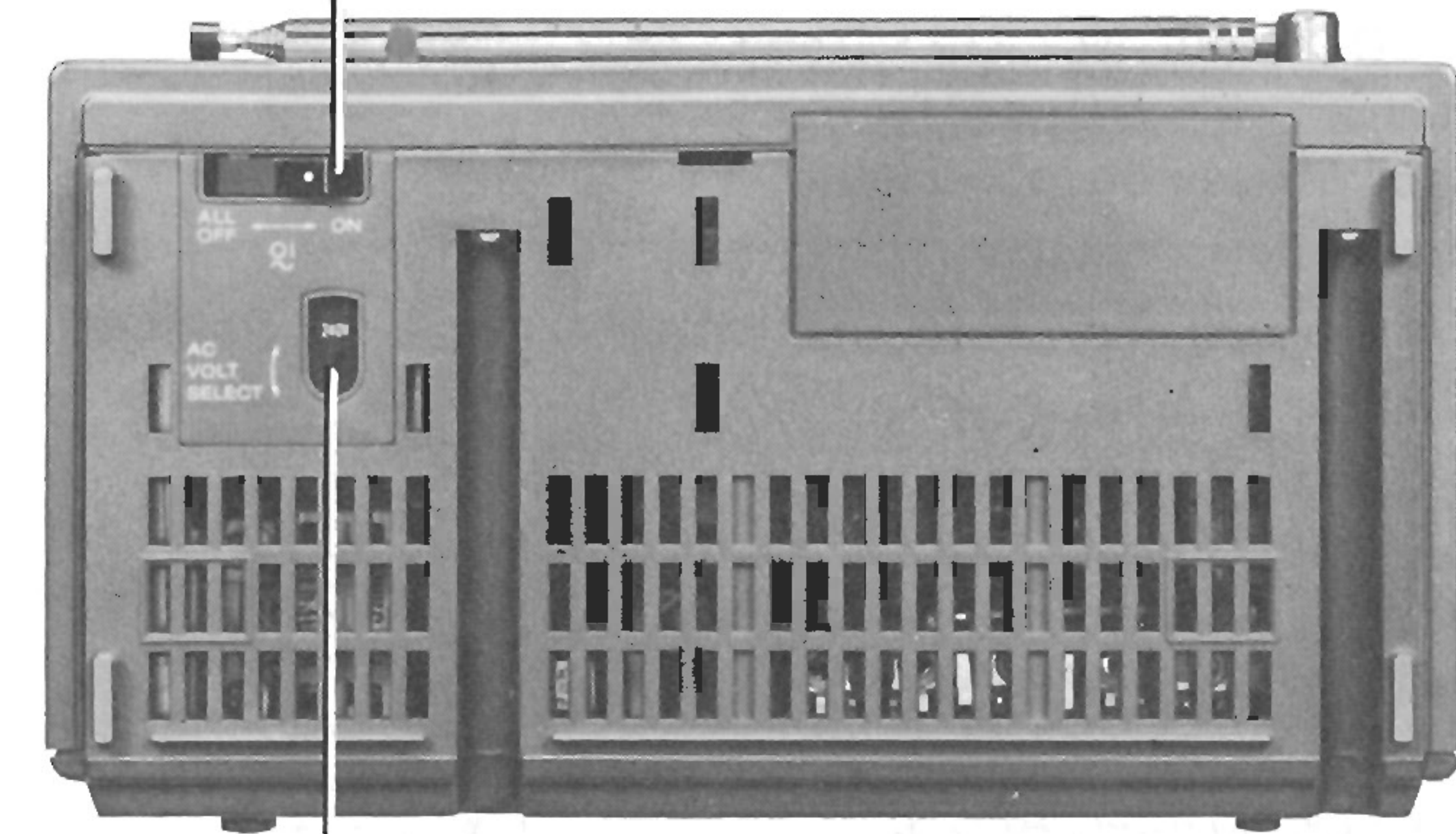
Connect the optional car adapter (Model AP-23), when using the power supply from a car or a boat.

AC input jack

Connect to the house current receptacle with the AC power cord supplied.

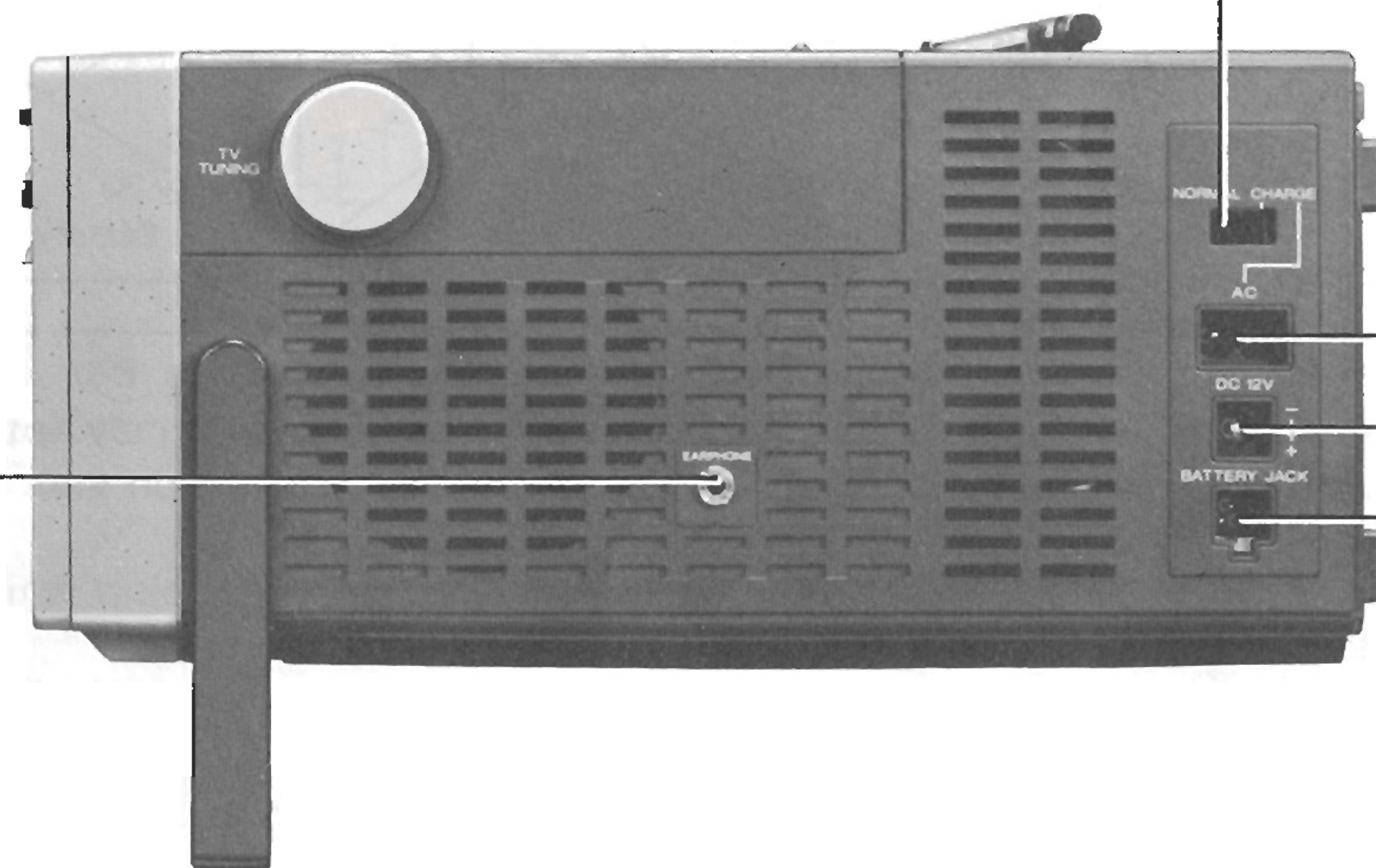
Mains switch (ALL OFF-ON)

Set this switch to "ON" position to operate on house current. Set to "ALL OFF" to fully disconnect from the AC power.



Line voltage selector (AC VOLT SELECT)

Before connecting mains lead to the house current receptacle, be sure to set the line voltage selector to the position corresponding to your local voltage; 240 V, 220 V, 127 V, 110 V.



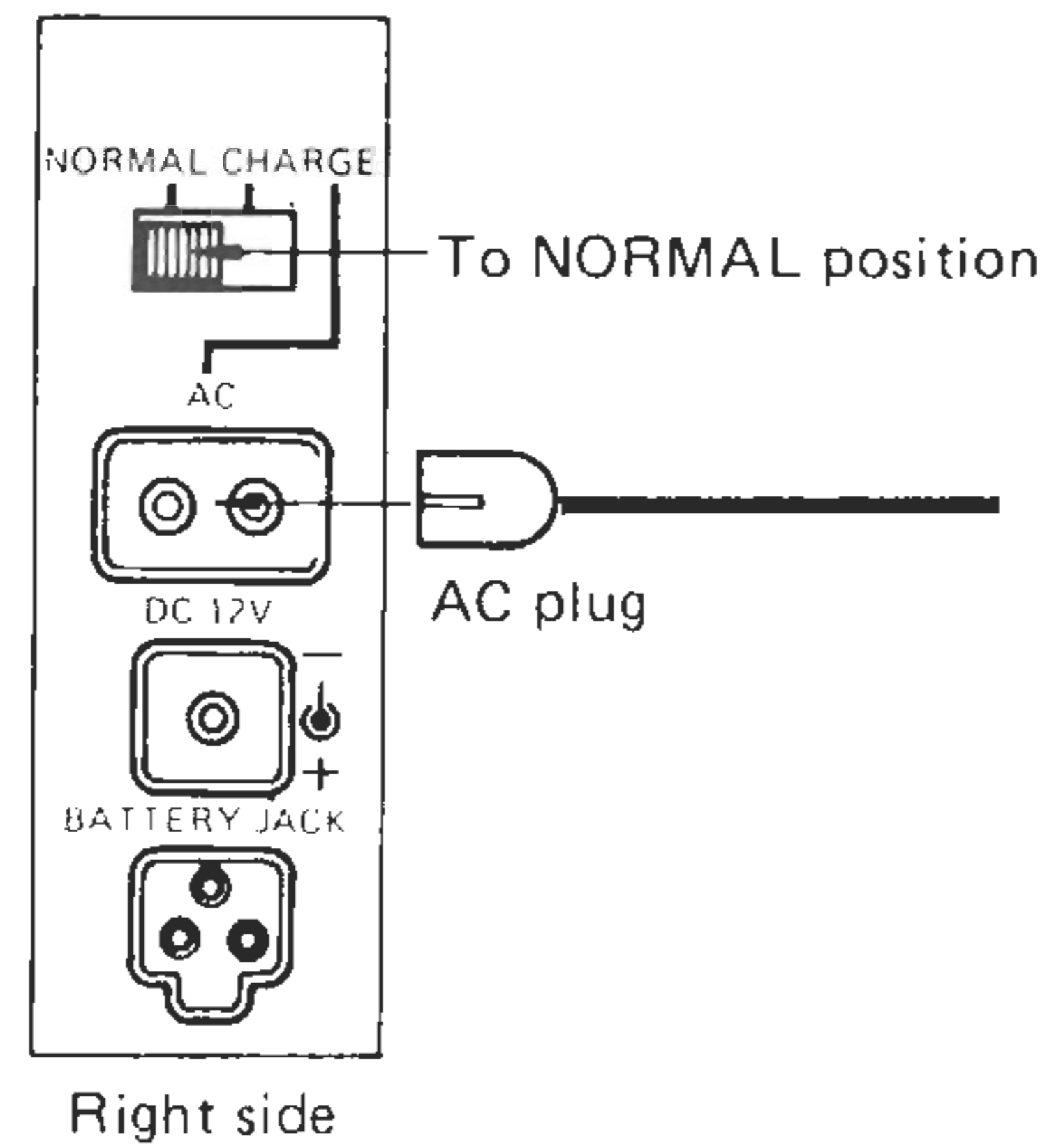
POWER SUPPLY

Using house current

Be sure to the VOLTAGE SELECTOR using a screwdriver, or the like, to the position corresponding to your local AC voltage before connecting the mains lead to the house current receptacle: 240 V, 220 V, 127 V, 110 V. It is preset to 240 V at the factory.

Connect one end of the power cord supplied to the AC input jack and the other to a house current outlet.

When the power cord is connected, the lines from DC input jack (12 V) and dry-cell/rechargeable battery terminal will be automatically disconnected.

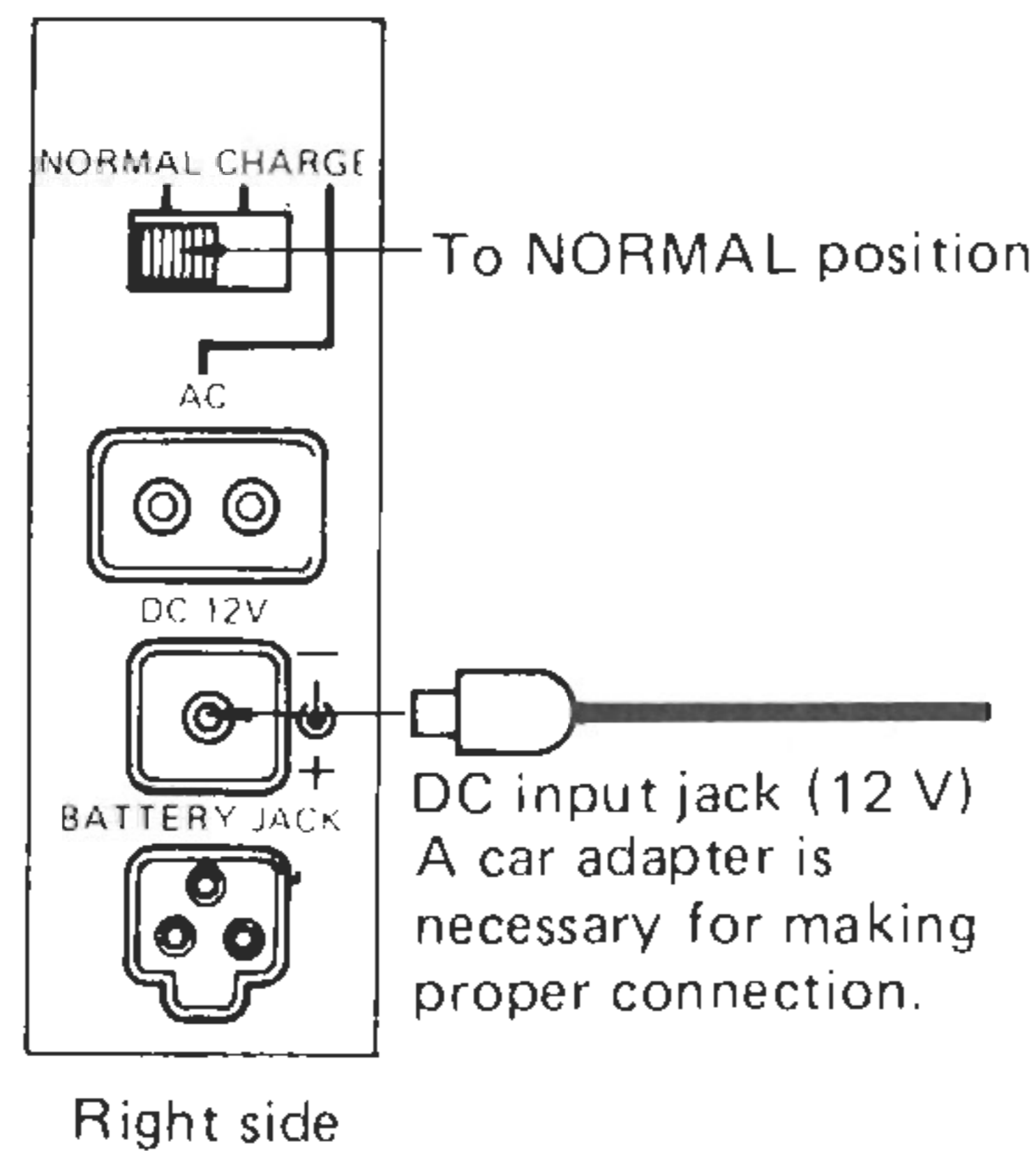


Using car battery (only with cars that are negative (-) grounded)

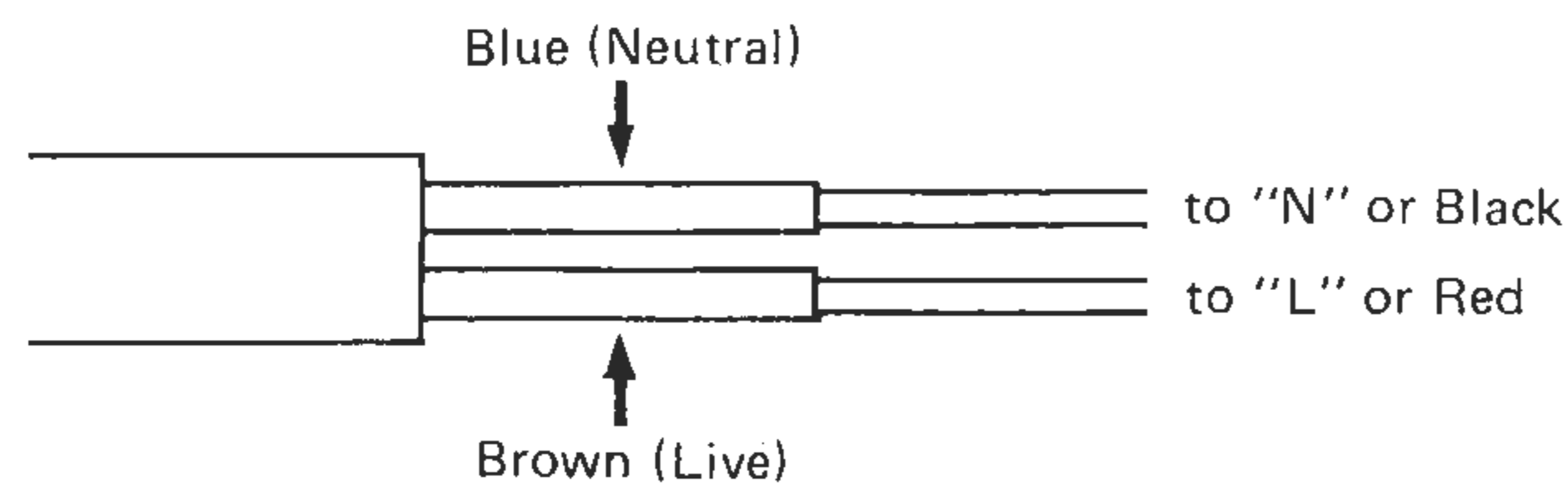
Connect the adapter end of the car adapter cord (Model AP-23, available from your JVC dealer) to the car cigarette lighter socket and the other end to the DC input jack (12 V).

Do not use any other car adapter than the specified car adapter, AP-23.

(Disconnect the power cord from the AC input jack as the power supply from the car battery will be switched off automatically if the AC power cord is connected.)



AC power connection



IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

Using the rechargeable battery or dry-cell battery

Use the optional rechargeable battery pack (Model CB-25E) or 10 "D"-size dry-cell batteries with the case (Model BC-60E).

Refer also to the instruction booklets of the above for further details.

How to install the battery case

As shown in the figure below, hook each of (B) (C) (D) points of the battery case to the (B') (C') (D') points at the back of the TV set.

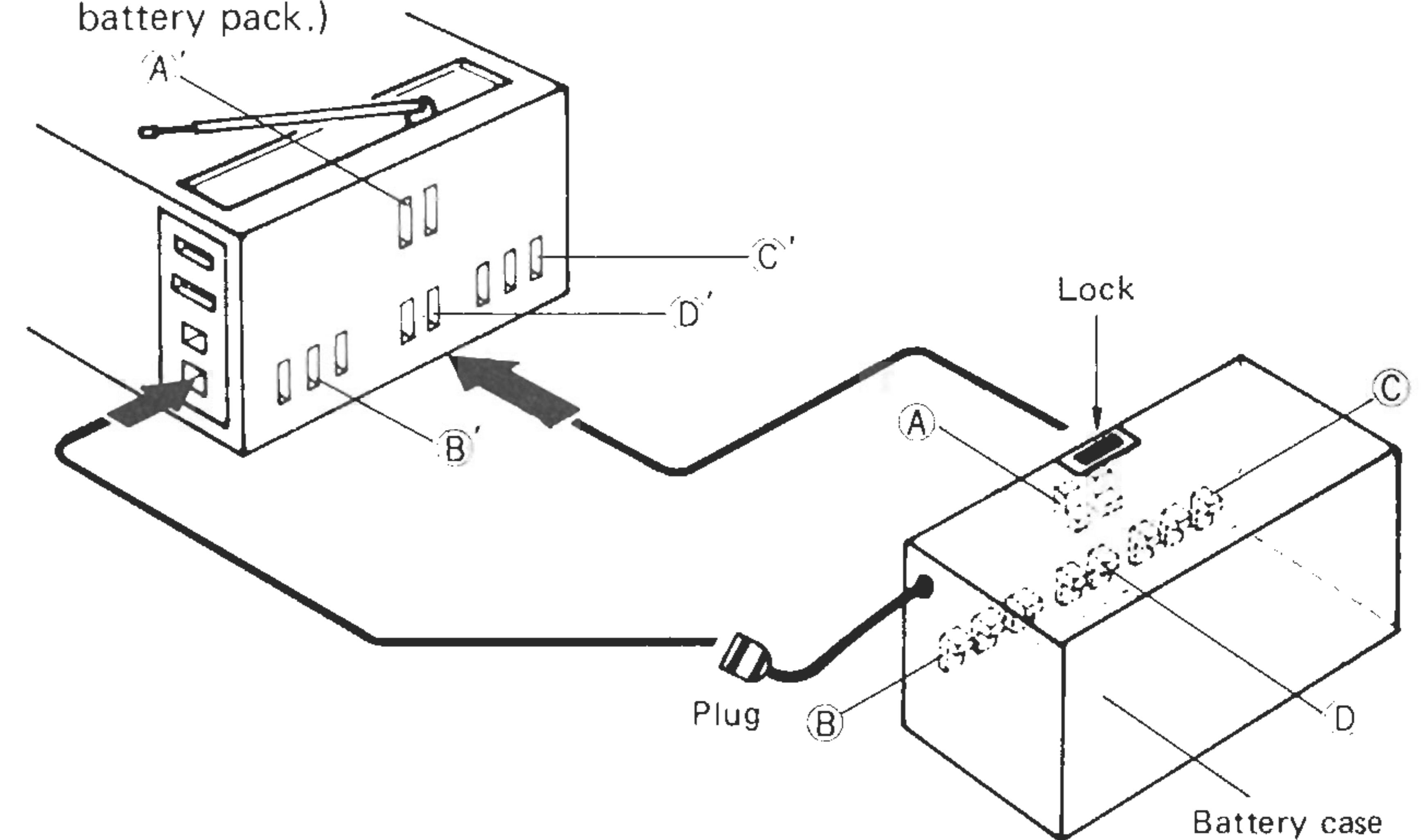
Also affix (A) to (A'), pressing the lock.

(When removing, lift up the case at an angle, while pressing the lock.)

Connect the plug attached on the battery case to the dry-cell/rechargeable battery input jack.

(Disconnect the AC power cord and the car adapter as the power supply from the battery case will be switched off automatically when the AC power cord or the car adapter are connected to their respective jacks.

The AC power cord is necessary, however, to recharge the rechargeable battery pack.)



As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows.

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

NOTE

The rating plate is on the bottom of the unit.

ANTENNAS

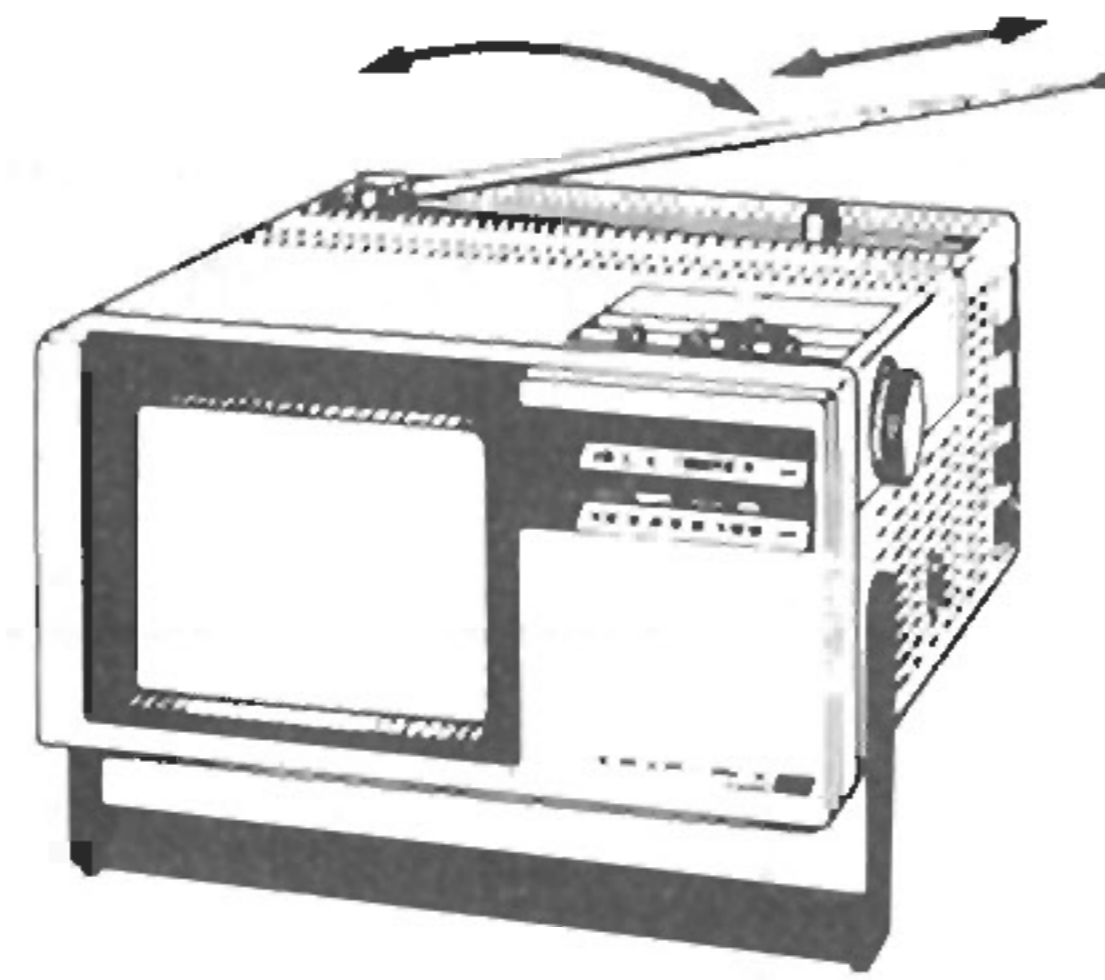
Using the rod antenna

The rod antenna is effective for receiving either VHF or UHF broadcasting in normal strength signal areas.

Disconnect the outdoor antenna when using the built-in rod antenna.

Adjust the length, direction and angle of the antenna for the best reception.

*When the light and shade of the picture on the screen is too strongly contrasted by too strong signals, shorten the rod antenna.



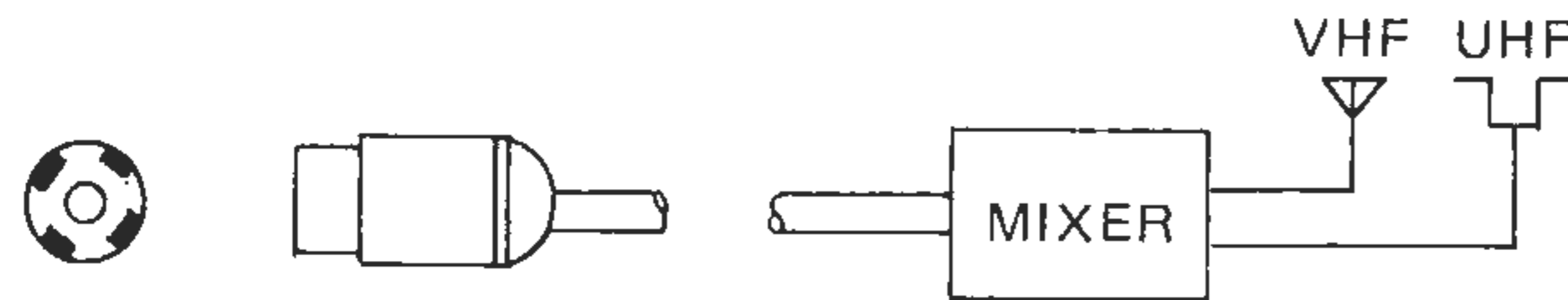
Using an outdoor antenna

In weak signal areas such as in a concrete building or a distant place from the station, it may be necessary to install an outdoor antenna for better reception.

Connection of a coaxial cable (75 Ω)

Connect the 75 Ω coaxial cable to the aerial socket.

When the 75 Ω plug is used for VHF and UHF, use an Antenna Mixer and then connect it to the 75 Ω socket.

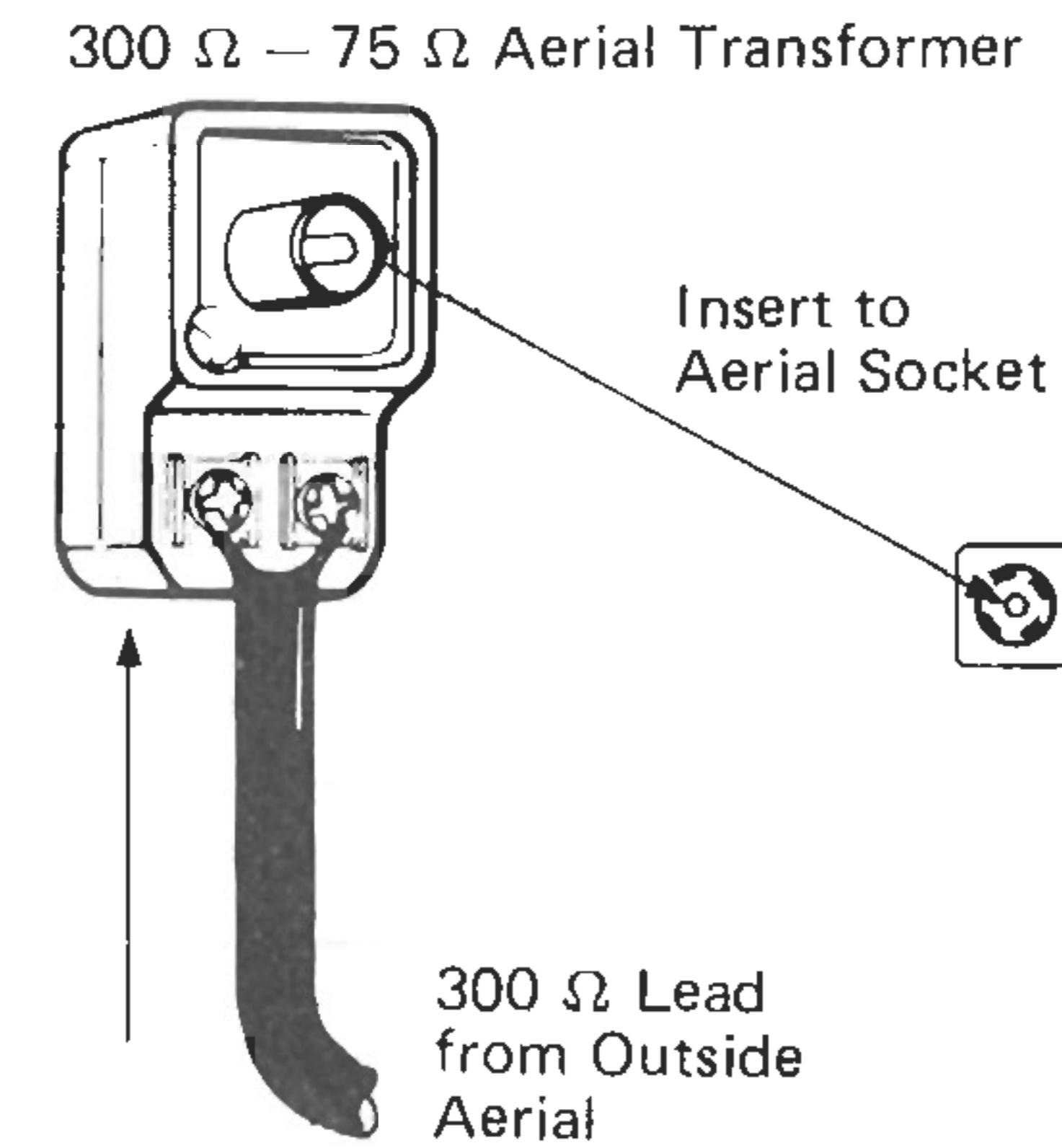


Note:

The built-in antenna connection is automatically switched off by connecting the outdoor antenna to the aerial socket.

Connection of VHF feeder (300 Ω) and UHF lead (300 Ω)

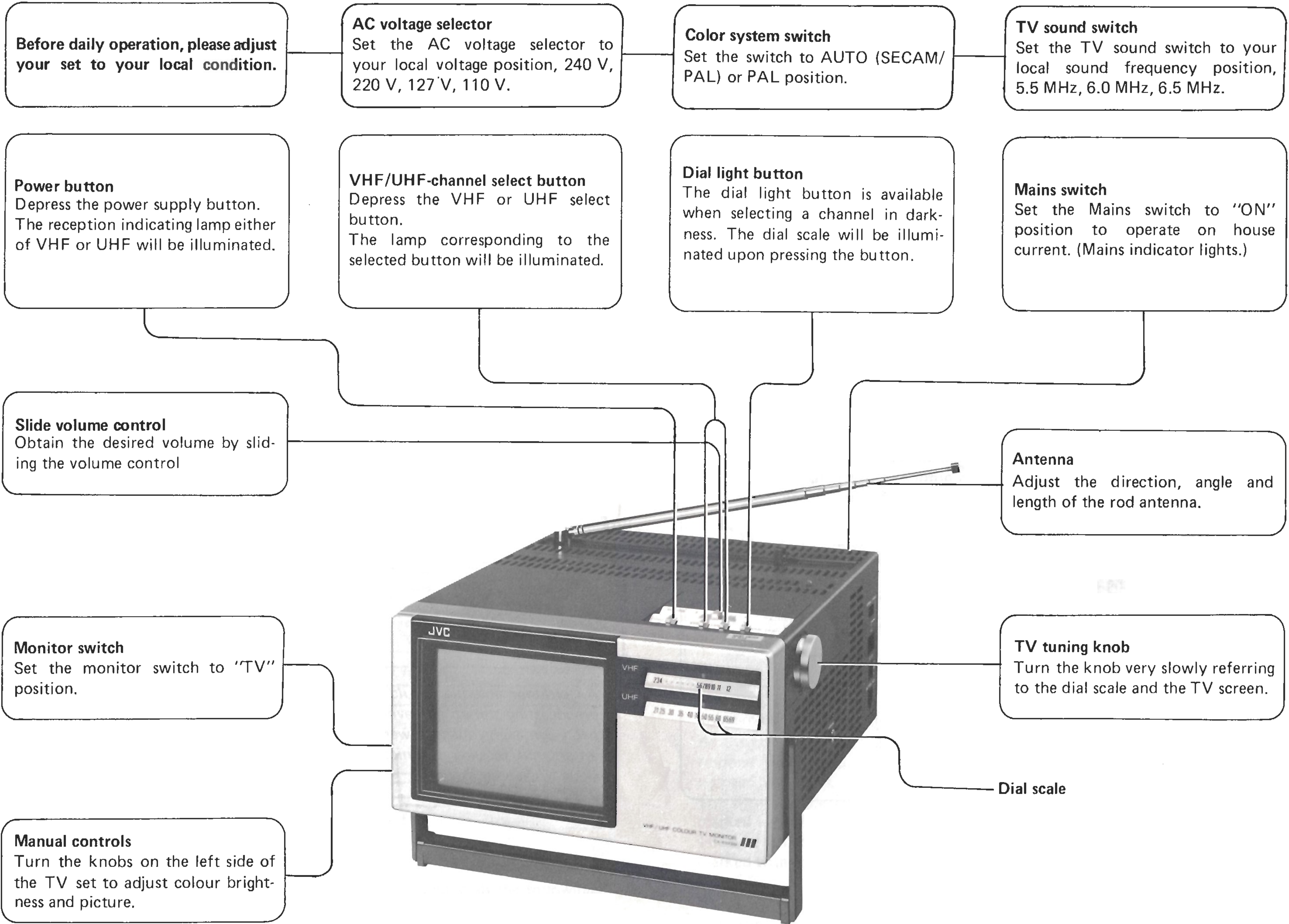
When you use 300 Ω lead, 300 Ω – 75 Ω aerial transformer is required. Connect the 300 Ω feeder (VHF or UHF) to the aerial transformer and put it to the aerial socket.



Note:

An outdoor antenna should be installed where it is not obstructed from a broadcasting station and avoid places subject to possible interferences such as neon sign, high voltage power transmission line, roadway or railway. Installing an antenna requires technical experience, so it is recommended to rely on your JVC dealer.

HOW TO OPERATE (1) Viewing the TV



HOW TO OPERATE (2) Recording and playback monitoring

Note:

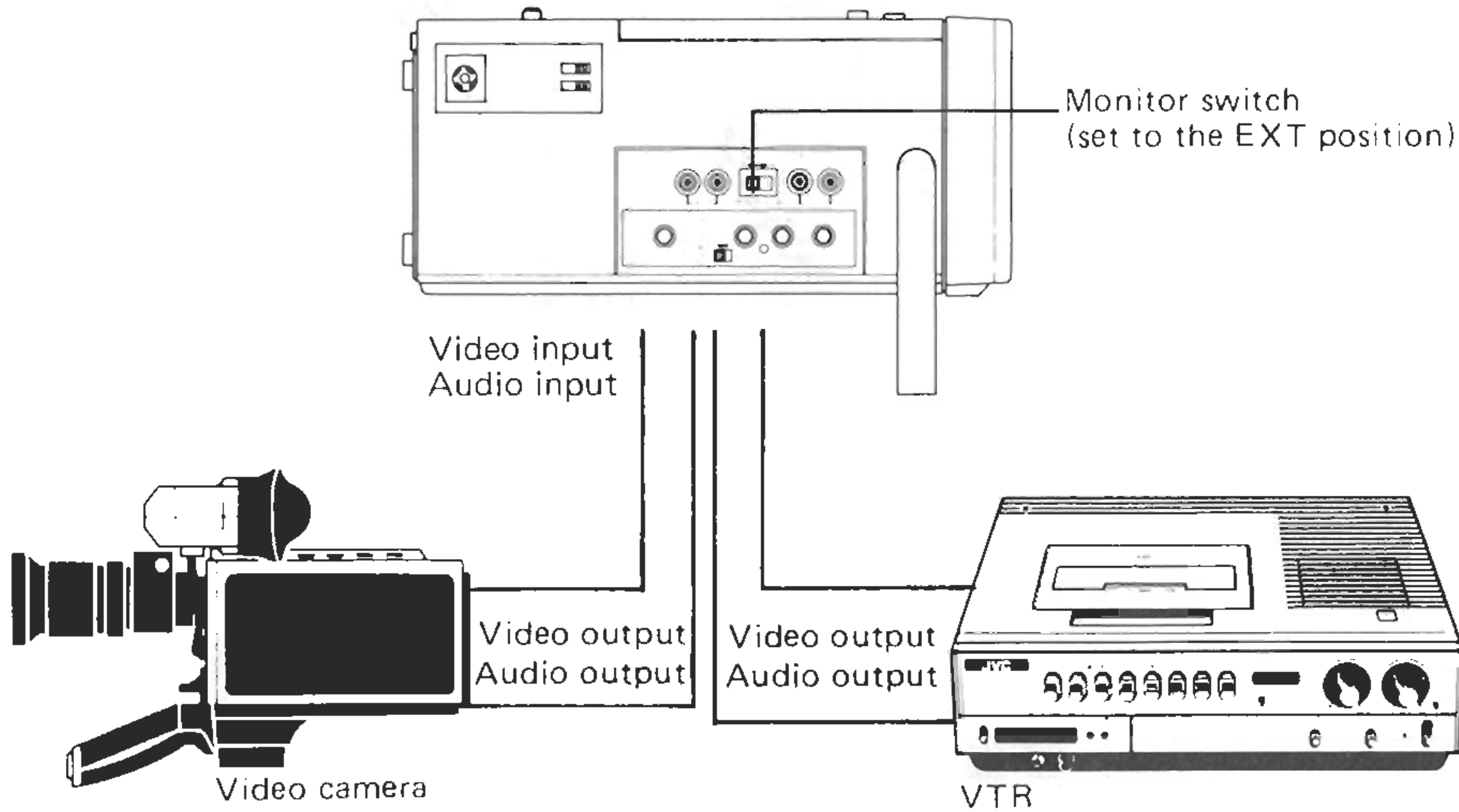
The following is only one example for making proper connections.

Refer also to the instruction booklets of the appropriate video camera and VTR that are to be connected.

Effective as a TV monitor by connecting to video camera or VTR.

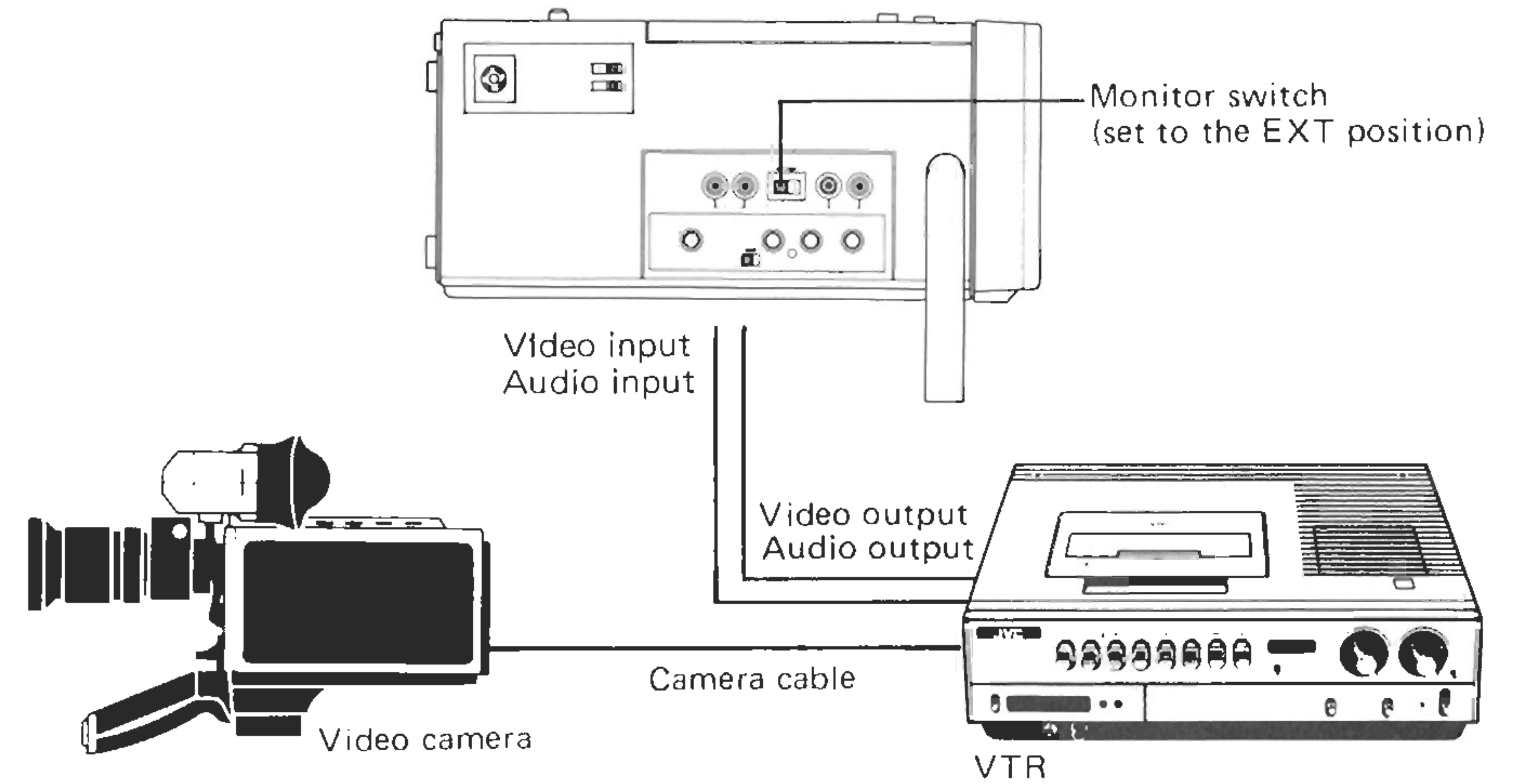
1. For monitoring video camera work or for viewing played back pictures from a VTR

1. Connect the video camera or VTR output to the external video input jack and to the external audio input jack.
2. Set the monitor switch to the "EXT" position.
3. Monitoring video camera shots or playback of video programs is now possible by operating the video camera or VTR.



2. For monitoring scenes being shot by a video camera and recording at the same time

1. Connect the VTR video/audio output to the external video input jack and audio input jack. Connect also the video output jack and audio output jack of the video camera to the VTR video/audio input jacks.
2. Set the monitor switch to the EXT position.
3. Recording while monitoring the scenes being shot is now possible by operating video camera and VTR.

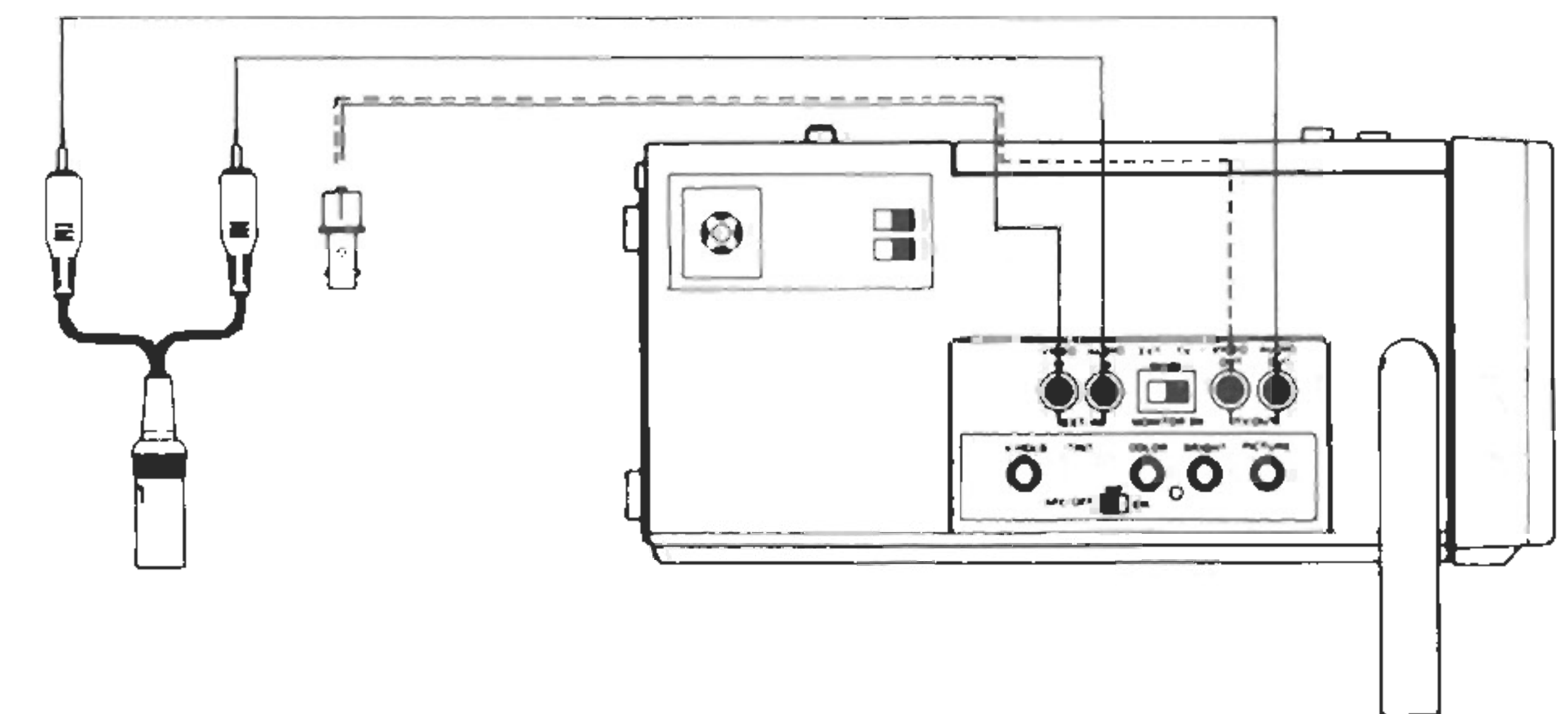


Note:

Reduce the TV volume, as increasing the volume may cause howling between the TV speaker and the microphone of the video camera. Use an earphone to monitor the audio.

Instruction for CX-610ME(E) adaptor

The audio-in/out and video-in/out connectors of this model are RCA type (pin jacks). If the connectors of the VTR in use are BNC or DIN type, use the provided connectors.

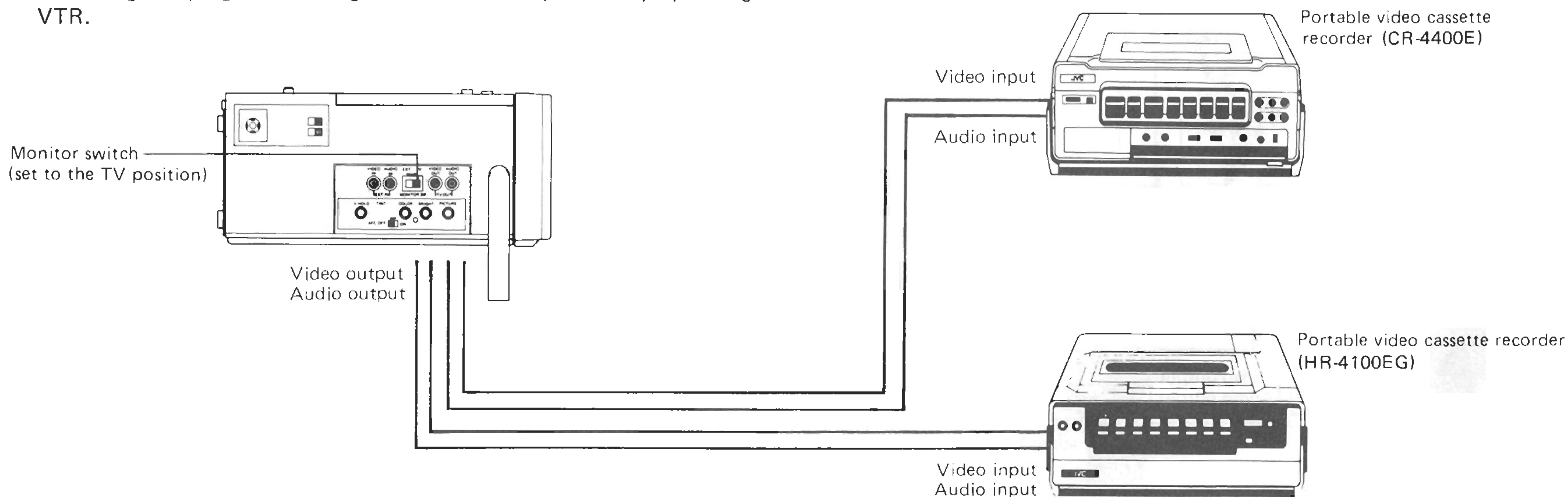


HOW TO OPERATE (3) Using as a TV tuner

Note:

The following is only one example for making proper connections. The VTR to be connected in the example is of the type having no built-in tuner.

1. Connect the VTR video/audio input to the TV video output jack and to the TV audio output jack.
2. Set the monitor switch to the TV position and select the channel to be recorded.
3. Recording the programme being broadcast is now possible by operating the VTR.



Note:

Avoid putting the TV set near a speaker system as the magnetic field of the speaker may cause the purity of colours on the TV screen to lessen.

Also avoid placing the TV set on the VTR. Otherwise it may cause no colour or unsatisfactory colour.

Note:

Only one VTR is connectable to this TV monitor when employed as a TV tuner.

CHECK THE FOLLOWING BEFORE CALLING FOR SERVICE

Symptom	Cause
No power	<ul style="list-style-type: none"> ■ Is the Mains switch in the "ON" position? ■ Is the CHARGING SWITCH in the "NORMAL" Position? ■ Is the AC power cord properly connected? ■ Are batteries in the battery case? ■ Are the batteries exhausted? ■ Are the batteries inserted with the proper polarity?
No sound from speaker	<ul style="list-style-type: none"> ■ Is the TV sound switch in your local sound frequency position? ■ Is the earphone connected to the jack? ■ Is the VOLUME control knob slided fully to the left?
No picture	<ul style="list-style-type: none"> ■ Is the monitor switch set to the EXT position? ■ Is the VHF/UHF select button pressed properly?
No colour or unsatisfactory colour	<ul style="list-style-type: none"> ■ Is the Colour system switch in the proper position? ■ Is the AFC (automatic fine-tuning) switch set to the "ON" position? ■ Is the TV tuning knob set correctly? ■ Is the colour knob adjusted properly?

Symptom	Cause
Unclear pictures	<ul style="list-style-type: none"> ■ Check the antenna. ■ Make sure of the proper antenna connection. ■ Is the outdoor antenna disconnected from the aerial socket while viewing by the rod antenna?
Striped or rolling pictures	<ul style="list-style-type: none"> ■ Check how much battery power is consumed as these are the phenomena caused by shortage of battery power.
No battery operation	<ul style="list-style-type: none"> ■ Disconnect the AC power cord or the car adapter. ■ Are the batteries exhausted? ■ Are the batteries inserted with the proper polarity?
No car battery operation	<ul style="list-style-type: none"> ■ Is the car adapter properly connected?

SPECIFICATIONS

Power input	: AC 110 V, 127 V, 220 V, 240 V, 50/60 Hz DC 15 V (R-20 size batteries x 10 or rechargeable battery) DC 12 V (Car battery)
Power consumption	: AC 29 W, DC 16 W
Audio output	: 0.6 W max. at 10 % THD
Speaker	: 8 cm round type
Colour TV system	: PAL (-B, G, I) CCIR continental std. SECAM (-B, G, D, K, K1) CCIR continental std./OIRT std.
Picture tube	: 15 cm, 55° deflection tube
Channel coverage	: VHF: CCIR countries 2 – 12 (OIRT countries 1 – 12) UHF: 21 – 69
TV sound	: 5.5 MHz (CCIR), 6.0 MHz (U.K.), 6.5 MHz (OIRT)
Built-in antenna	: Telescopic rod antenna for VHF/UHF
Antenna terminal	: 75 ohm aerial socket
Video external input	: 1 Vp-p 75 ohms
Audio external input	: 0 dBm high impedance
Video TV output	: 0.8 Vp-p 75 ohms
Audio TV output	: -18 dBm low impedance
Dimensions	: 244(W) x 135(H) x 275(D) mm
Weight	: 4.6 kg (without batteries)

Note: The rating plate is on the bottom of the unit.

Design and specifications subject to change without notice.

JVC

VICTOR COMPANY OF JAPAN, LIMITED
TOKYO, JAPAN

Producing Quality Audio/Video Products since 1927.