

Black and white TV-FM/AM Receiver

# FD-500

## Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

## Owner's Record

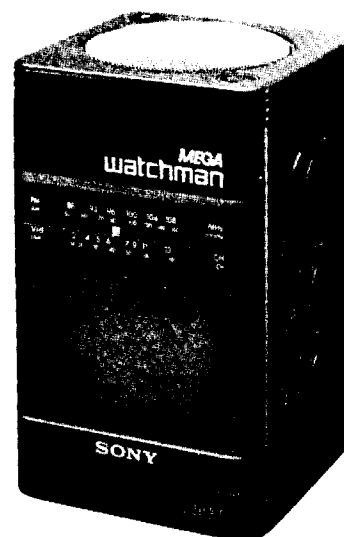
The model number and serial numbers are located at the bottom. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. FD-500

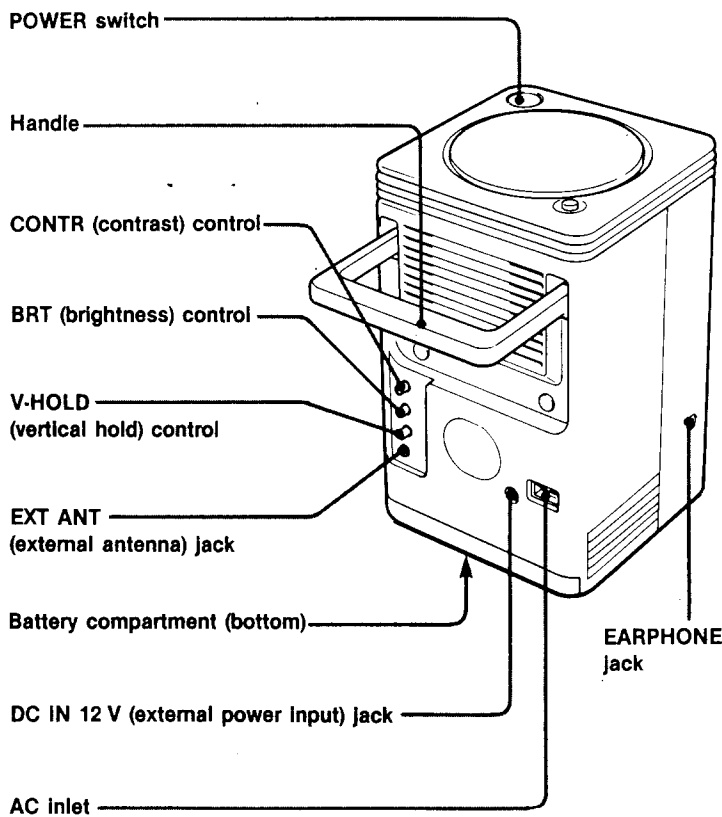
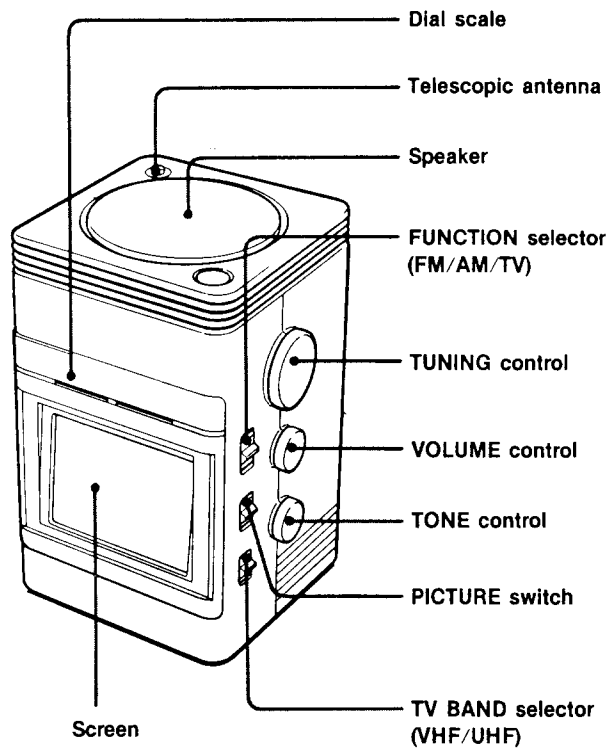
Serial No. \_\_\_\_\_

**MEGA**  
**watchman**

Sony Corporation ©1988 Printed in Taiwan



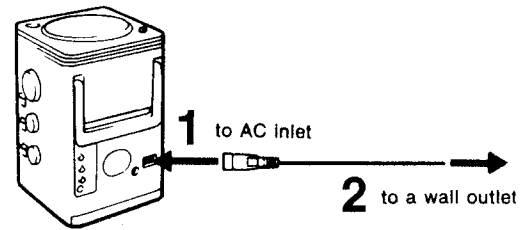
# Location of Controls



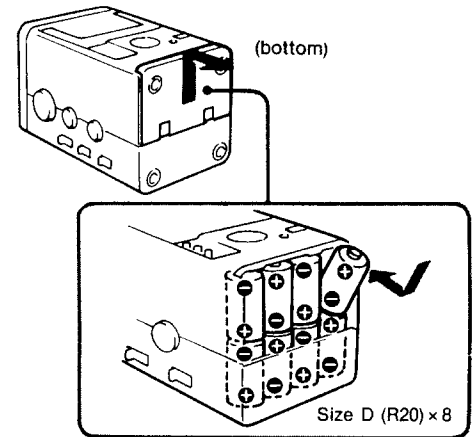
# Power Sources

## House current (120 V AC)

Connect the AC power cord (supplied) to the AC inlet.



## Batteries



### When to replace batteries

When the picture becomes small, replace all the batteries with new ones.

### Battery life

(approx. hrs.)

Batteries	TV	TV audio only	RADIO	
			AM	FM
Sony SUM-1 (NS)	1.5	10	25	25
Sony alkaline AM1 (N)	5	30	70	70

## Car battery

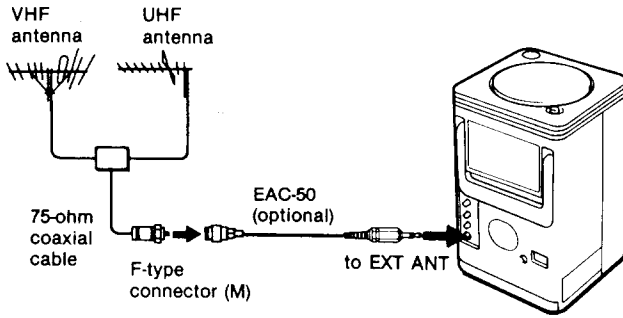
Connect the DCC-16AW car battery cord (optional) to the DC IN 12 V jack.

**Note:** Use only the recommended car battery cord manufactured by Sony. Polarity of the plugs of other manufactures may be different.



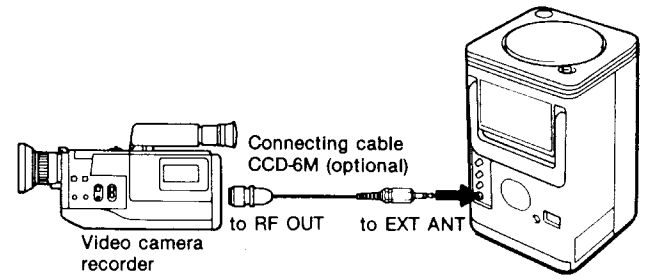
# External Antenna Connection

## Outdoor antenna

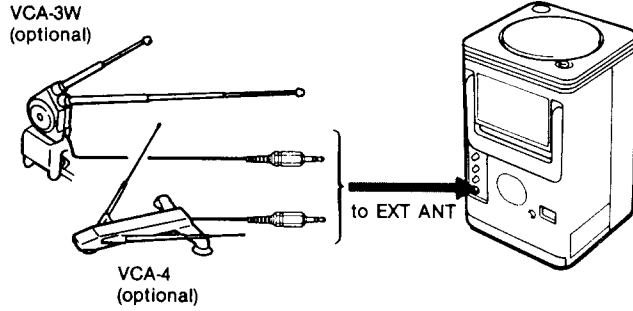


## Monitoring the Video Camera Recorder

After connecting as illustrated, turn on the power of the equipments and tune in the channel 3 or 4.



## Car antenna



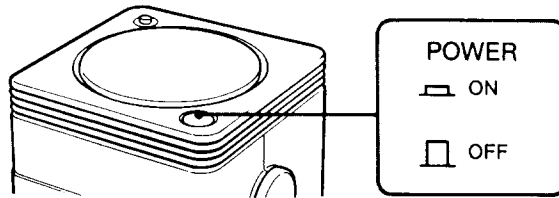
# Watching the TV

# Listening to the Radio

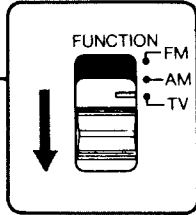
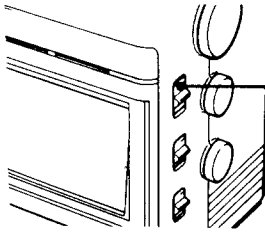
1

Depress POWER (on )

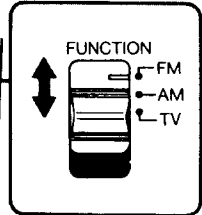
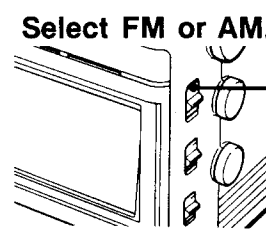
1



2

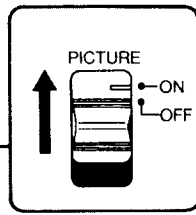
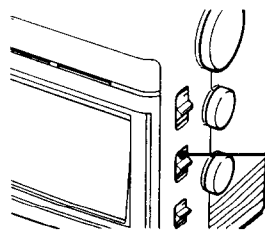


Select FM or AM.



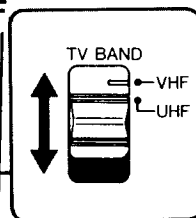
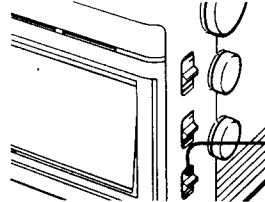
2

3



4

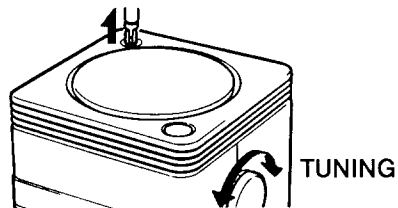
Select VHF or UHF



5

Pull out the antenna fully and tune in the desired channel (station).

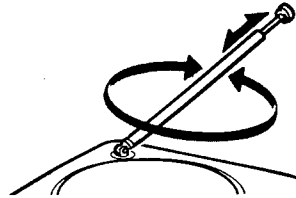
3



6

Adjust the antenna length and its direction.

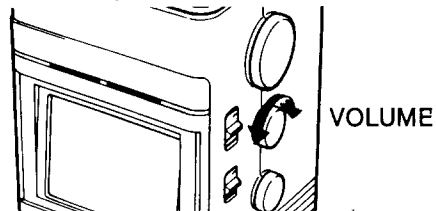
4



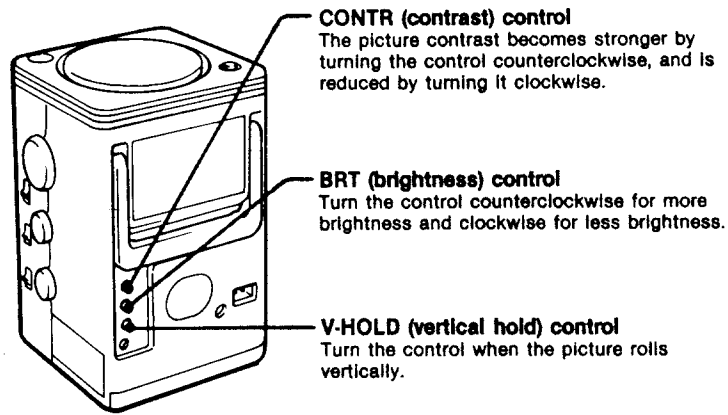
7

Adjust VOLUME.

5



## Picture Adjustment



### **CONTR (contrast) control**

The picture contrast becomes stronger by turning the control counterclockwise, and is reduced by turning it clockwise.

### **BRT (brightness) control**

Turn the control counterclockwise for more brightness and clockwise for less brightness.

### **V-HOLD (vertical hold) control**

Turn the control when the picture rolls vertically.

To listen to the TV sound only, set PICTURE to OFF.

To turn off, press to release POWER and fold the antenna.

### **How to use the TONE control**

Turn towards HIGH for more treble and towards LOW for less treble.

**Note:** Be sure to release POWER to OFF after use, especially when listening with headphones or earphones. This prevents unnecessary battery wear.

# Troubleshooting Guide

Symptom	Cause
The unit does not operate.	<ul style="list-style-type: none"><li>• The AC power cord or the car battery cord is disconnected (on AC or car battery operation).</li><li>• Incorrect battery polarity.</li><li>• Weak batteries.</li></ul>
Herringbone pattern, double images, stripes, too indistinct, etc.	<ul style="list-style-type: none"><li>• Improper tuning.</li><li>• Improper antenna setting.</li></ul>
Dotted line or stripes.	<ul style="list-style-type: none"><li>• Often caused by interference from car ignition, neon signs, hair dryers, electric-rasors, etc. Adjust the telescopic antenna.</li></ul>
No sound from speaker.	<ul style="list-style-type: none"><li>• VOLUME is turned down completely.</li></ul>
Noise is heard with FM reception.	<ul style="list-style-type: none"><li>• Often caused by very strong radio station signals. Fold the telescopic antenna, or remove the antenna connected to the EXT ANT jack.</li></ul>

## Precautions

- Operate the unit 120 V AC, 60 Hz or 12 V DC.  
For AC operation, use the supplied AC power cord. Do not use any other type.  
For car battery operation, use only the optional Sony DCC-16AW car battery cord. Do not use any other type.
  - Disconnect the AC power cord from the wall outlet when the unit is not to be used for an extended period of time.
  - When the unit is not to be used for a long period of time or is to be operated extensively on house current, remove the batteries to avoid damage from battery leakage.
  - Since a strong magnet is used for the speakers, keep personal credit cards using magnetic coding or spring-wound watches away from the unit to prevent possible damage from the magnet.
  - Do not leave the unit in a location near heat sources or in a place subject to direct sunlight, excessive dust, or mechanical shock.
  - Do not place the unit in a location near heat sources such as radiators or airducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration, or shock.
  - Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.
  - Should any liquid or solid object fall into the unit, unplug the unit and remove the batteries, and have the unit checked by qualified personnel before operating it any further.
  - One blade of the plug is wider than the other for the purpose of safety and will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
  - Avoid rough handling.
  - When the casing becomes soiled, clean it with a soft cloth dampened with a mild detergent solution. Never use abrasive cleansers or chemical solvents, as they may mar the finish.
- If you have any question or problem concerning your unit that is not covered in this manual, please consult the nearest Sony dealer.

# Specifications

TV standard	American TV standard
Channel coverage	VHF channels 2-13 UHF channels 14-69
Radio frequency range	FM 87.6-108 MHz AW 530-1,605 kHz
Antenna	VHF/UHF/FM: telescopic antenna AM: Built-in ferrite bar antenna
Picture tube	4.5-inch picture measured diagonally
Input	EXT ANT: minijack, 75 ohms
Output	EARPHONE: minijack, impedance 8-300 ohms
Speaker	Full range ø 10 cm (ø 4 inches)
Power requirements	120 V AC, 60 Hz or 12 V DC
Battery life	See "Power sources."
Power consumption	20 W (120 V AC) 11 W (12 V DC)
Dimensions	Approx. 146 x 235 x 146 mm (w/h/d) (5 <sup>3</sup> / <sub>4</sub> x 9 <sup>3</sup> / <sub>8</sub> x 5 <sup>3</sup> / <sub>4</sub> inches) excl. projecting parts and controls Approx. 156.5 x 241 x 159 mm (w/h/d) (6 <sup>1</sup> / <sub>4</sub> x 9 <sup>1</sup> / <sub>2</sub> x 6 <sup>3</sup> / <sub>8</sub> inches) incl. projecting parts and controls
Weight	Approx. 3 kg (6 lb 9 oz) incl. batteries
Supplied accessory	AC power cord (1)

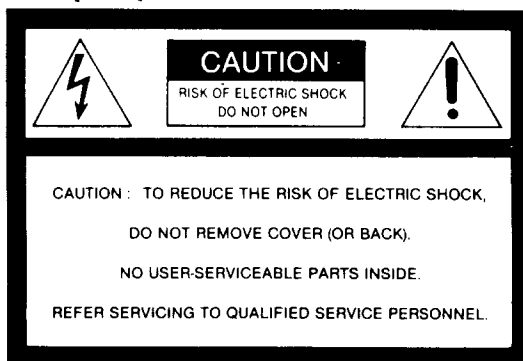
Design and specifications subject to change without notice.

## Optional accessories

Car battery cord DCC-16AW  
Car antenna VCA-3W, VCA-4  
Antenna connector EAC-50  
Connecting cable CCD-6M  
Sony alkaline battery AM1

## WARNING

To prevent fire or shock hazard,  
do not expose the unit to rain or  
moisture.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## Features

- 4.5-inch black and white 90° deflection picture tube.
- FM/AM radio is combined.
- Built-in 4-inch dia. speaker with powerful output and good sound suitable for garden and kitchen use.
- Sound position enables listening to the TV sound only.
- Carrying handle for easy carrying.
- 3-way power source capability allows use in any situation.