

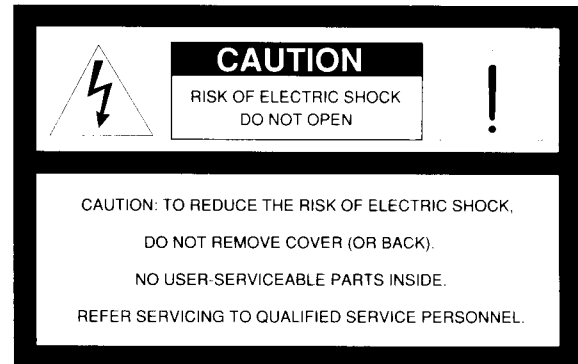
FM/AM RADIO

# ICF-24

## Operating Instructions

### 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.

\*The graphical symbols are on the bottom enclosure.

---

## Before You Begin

Thank you for choosing the Sony 2 BAND RADIO! This unit will give you many hours of reliable service and listening pleasure. Before operating the unit, please read these instructions thoroughly and retain them for future reference.

---

## Features

- 2 way power AC/DC operation
- TUNE indicator which lights during radio reception
- Carrying handle

---

## Precautions

- Operate the unit on 6 V DC or 120 V AC, 60 Hz. For battery operation, use four size AA (R6) batteries. For AC operation, use the equipped AC power cord.
- When the internal batteries are not being used, remove them to avoid damage caused by battery leakage or corrosion.
- The nameplate indicating operating voltage, etc. is located on the rear exterior.
- To disconnect the power cord, pull it out by the plug, not the cord.
- Do not leave the unit near heat sources, or in a place subject to direct sunlight, excessive dust, or mechanical shock.
- Should any solid object or liquid fall into the unit, disconnect the AC power cord or remove the batteries, and have the unit checked by qualified personnel before operating it any further.
- Since a strong magnet is used for the speaker, metallic objects such as pins, etc. may cling to the unit. Keep personal credit cards using magnetic coding or spring-wound watches away from the magnet.
- When the casing becomes soiled, clean it with a soft cloth dampened with mild detergent solution. Never use abrasive cleansers or chemical solvents, as they may damage the casing.

## Battery Warning

When the unit is left unplugged for a long time, remove the batteries to avoid undue battery discharge and damage to the unit from battery leakage.

**If you have any questions or problems concerning your unit, please consult your nearest Sony dealer.**

---

## Specifications

### Frequency range:

FM: 87.6 - 108 MHz

AM: 530 - 1,710 kHz

**Speaker:** Approx. 7.7 cm (3 inches) dia., 4 Ω

**Power output:** 350 mW (at 10% harmonic distortion)

**Output:** Headphones jack (stereo minijack)

**Power requirements:** 120 V AC, 60 Hz with the equipped AC power cord  
6 V DC with four size AA (R6) batteries

### Battery life:

Approx. 26 hours

(for four hours a day at normal volume using Sony batteries SUM-3 (NS))

### Dimensions:

Approx. 217 × 117 × 80 mm (w/h/d)

(8 <sup>5</sup>/<sub>8</sub> × 4 <sup>5</sup>/<sub>8</sub> × 3 <sup>1</sup>/<sub>4</sub> inches) incl.

projecting parts with the carrying handle pushed in.

### Mass:

Approx. 730 g (1 lb 10 oz) incl. batteries

Design and specifications are subject to change without notice.

# IMPORTANT SAFEGUARDS

For your protection, please read these safety instructions completely before operating the appliance, and keep this manual for future reference. Carefully observe all warnings, precautions and instructions on the appliance and described in the operating instructions supplied with the appliance by Sony.

## INSTALLATION

### Water and Moisture

Do not install the appliance near water: for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.

### Heat

Do not install the appliance near sources of heat such as radiators, heat registers, stoves, or other appliances that produce heat.

### Ventilation

Slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable and safe operation of the appliance, and to protect it from overheating, these slots and openings must never be blocked or covered.

Do not place the appliance on a bed, sofa, rug or other similar surface which may block the slots and openings.

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet, unless proper ventilation is provided.

### Carts and Stands

Do not install the appliance on an unstable table, shelf, cart or stand. Use only a cart or stand recommended by Sony.

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

### Wall or Ceiling Mounting

If your appliance can be mounted to a wall or ceiling, mount it only as recommended by Sony.

## USE

### Power Source

Connect the appliance to a power supply only of the type described in the operating instructions or as marked on the appliance.

### Grounding or Polarization

Do not defeat the grounding or polarization feature of the AC power cord. If your AC receptacle will not accept the power cord plug, contact your electrician to install a proper AC receptacle.

### AC Receptacle

Check to make sure that the AC receptacle holds the power cord plug firmly and securely. If the power cord plug is loose, contact your electrician to replace the defective and unsafe AC receptacle.

### Power-Cord Protection

Route the power cord so that it is not likely to be walked on or pinched by having objects placed on it, paying particular attention to the plugs, receptacles, and the point where the cord exits from the appliance.

### When not in use

Unplug the power cord of the appliance from the outlet when left unused for a long period of time. To disconnect the cord, pull it out by grasping the plug. Never pull the plug out by the cord.

### Foreign Objects

Be careful that foreign objects and liquids do not enter the enclosure through openings.

### Cleaning

Clean the appliance only as recommended by Sony.

## ANTENNAS

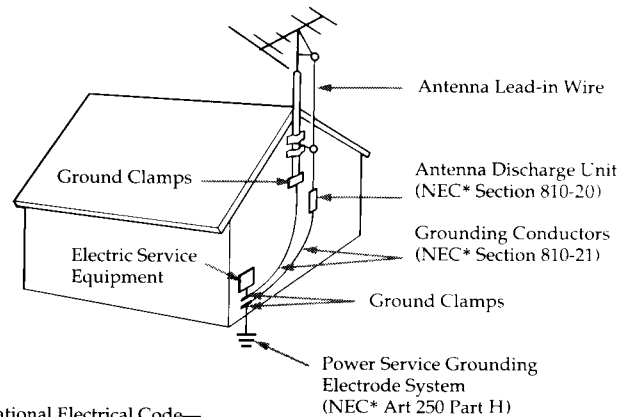
### Outdoor Antenna Grounding

If an outdoor antenna or cable system is installed, follow the precautions below.

An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits. **WHEN INSTALLING AN OUTDOOR ANTENNA SYSTEM, EXTREME CARE SHOULD BE TAKEN TO KEEP FROM CONTACTING SUCH POWER LINES OR CIRCUITS AS CONTACT WITH THEM IS ALMOST INVARIABLY FATAL.**

Be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

### Antenna Grounding According to the National Electrical Code



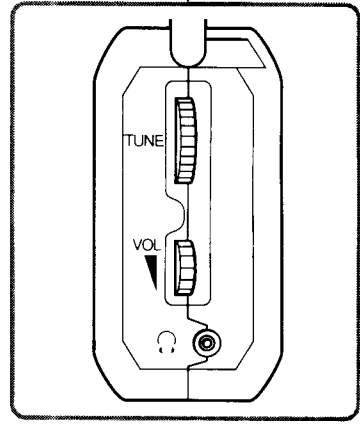
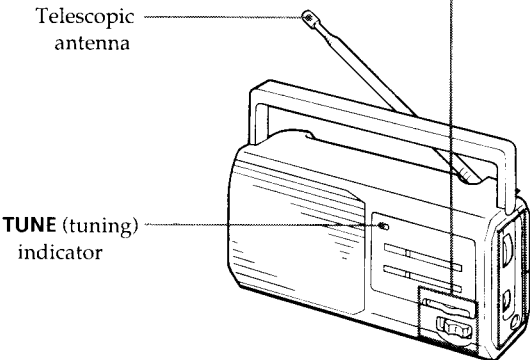
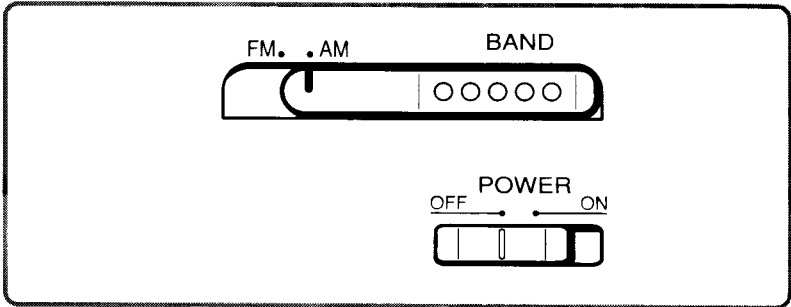
—NEC National Electrical Code—

### SERVICE

Unplug the appliance from the wall outlet and consult qualified service personnel when:

- the power cord or the plug has been damaged.
- a solid object or liquid has fallen into the cabinet.
- the appliance has been exposed to rain or moisture.
- the appliance does not appear to operate normally or exhibits a marked change in performance.
- the appliance has been dropped, or the enclosure damaged.

Do not attempt to service the appliance beyond that described in the operating instructions. For all other servicing refer to qualified service personnel only.

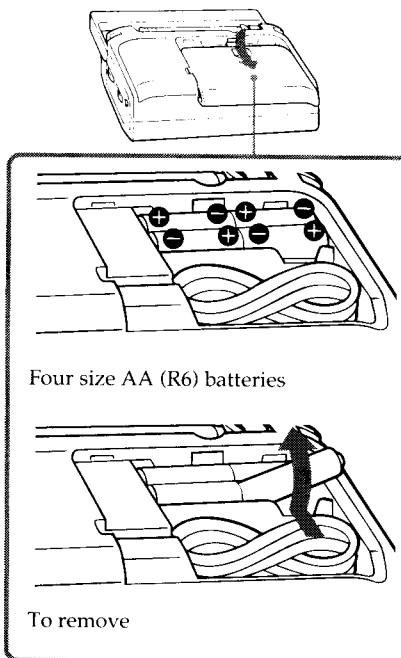


## Installing the Batteries

For battery operation, this unit needs four size AA (R6).

### Rear

Battery and AC power cord compartment

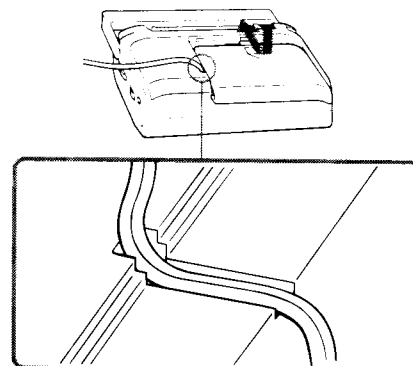


### Knowing When to Replace the Batteries

When the sound becomes weak or distorted, replace all the batteries with new ones. Concerning battery life, see "Specifications".


## Using the AC power cord

When you use the AC power cord, set it into the groove properly, then push the lid of the compartment and slide it in the direction of the arrow to close the compartment properly.



## Playing the Radio

1. Slide **POWER** to **ON** to turn on the radio and adjust **VOL** (volume).
2. Select **FM** or **AM** and tune in to a station using **TUNE** (tuning).

- To turn off the radio, slide **POWER** to **OFF**.
- To improve radio reception
  - FM:** Extend the telescopic antenna and adjust the length, direction and angle for the best reception.
  - AM:** Rotate the unit horizontally for optimum reception. A ferrite bar antenna is built into the unit.
-  (headphones) jack (right side of rear cabinet) When optional accessory headphones are plugged into the headphones jack, it automatically silences the radio speaker and the listener can enjoy complete privacy. The jack is designed to be used for the stereo headphones with your monaural radio, but reception will be heard in monaural only.
- **TUNE** (tuning) indicator The indicator lights up when a station is tuned in.

### Notes

- In vehicles or buildings, radio reception may be difficult or noisy. Try listening near a window.
- Keep the radio away from metallic objects.

**SONY****LIMITED WARRANTY**

SONY ELECTRONICS INC ("SONY") warrants this product against defects in material or workmanship, as follows:

For a period of 1 year from the date of retail purchase, SONY shall at its sole and absolute option either repair the defective product at no charge or replace the defective product with the same model or its equivalent model at no charge through a SONY SERVICE CENTER.

To obtain warranty service, you must take the product, or deliver the product prepaid, to one of the SONY SERVICE CENTERS located in the United States.

Proof of purchase in the form of a bill of sale or receipted invoice, which indicates that the product is within the warranty period, must be presented to obtain warranty service. SONY suggests that the purchaser retain the dealer's dated bill of sale as evidence of the date of retail purchase.

This warranty does not cover cosmetic damage, and damage to any part of the product, including the antenna, which results from acts of God, accident, misuse, abuse, improper maintenance, or connection to an improper voltage supply.

This warranty is valid only if the serial number appears on the product. This warranty is valid only in the United States of America.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. SONY SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. In addition, if you enter into a service contract with the Sony Partnership within 90 days of the date of sale, the limitation on how long an implied warranty lasts does not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Please refer to the list of SONY SERVICE CENTERS on the reverse side for the SONY SERVICE CENTER nearest you.

For your convenience, Sony Electronics Inc has established the Customer Information Center to supply you with product or service information.

**SONY CUSTOMER INFORMATION CENTER**

201-930-SONY (7669)

714-821-SONY (7669)

708-250-SONY (7669)

or write to:

**SONY CUSTOMER INFORMATION CENTER**

Sony Drive, Mail Drop #T1-11

Park Ridge, New Jersey 07656

**SONY ELECTRONICS INC**

Sony Drive, Park Ridge, New Jersey 07656

To obtain warranty service, please take the product, or deliver the product prepaid, to one of the following Sony Service Centers located around the United States.

All of the following items must be included when the product is shipped prepaid to the SONY SERVICE CENTER.

- Name, address and a phone number where you may be reached during the day.
- A copy of proof of purchase, as evidence that the product is within the warranty period.
- Brief description of the product defect.
- All supplied accessories with the product.

### Sony Service Centers

<b>Arizona</b>	<b>Hawaii</b>	<b>Missouri</b>
<b>Phoenix</b> 2240 North Scottsdale Road Tempe, AZ 85281 (602) 949-7669	<b>Honolulu</b> 950 Mapunapuna Street Honolulu, HI 96819 (808) 834-6622	<b>St. Louis</b> 12462-D Natural Bridge Road Bridgeton, MO 63044 (314) 291-2201
<b>California</b>	<b>Illinois</b>	<b>New Jersey</b>
<b>Burbank (Los Angeles area)</b> 4100 Riverside Drive, Suite A Burbank, CA 91505 (818) 842-7669	<b>Chicago</b> 1730 West Fullerton, Suite 4 Riverpoint Shopping Center Chicago, IL 60614 (312) 929-8585	<b>Mahwah (N.Y. Metropolitan Area)</b> 396 Route 17 South Mahwah, NJ 07430 (201) 529-1655
<b>Costa Mesa (Orange County area)</b> 2729 Bristol Street South Costa Mesa, CA 92626 (714) 549-4833	<b>Niles (Chicago N.W.)</b> 7540 North Caldwell Avenue Niles, IL 60648 (708) 647-2400	<b>Union</b> Bradlees Shopping Center US Highway 22 At Morris Avenue Union, NJ 07083 (201) 687-5555
<b>San Bruno (San Francisco area)</b> 751 Camino Plaza San Bruno, CA 94066 (415) 871-2810	<b>Westmont (Chicago S.W.)</b> 6036-38 South Cass Avenue Westmont, IL 60559 (708) 969-0049	<b>Ohio</b>
<b>San Diego</b> 8975 Complex Drive San Diego, CA 92123 (619) 279-2724	<b>Kansas</b>	<b>Cleveland</b> 6370 York Road Parma Heights, OH 44130 (216) 845-7669
<b>San Jose</b> 1359 Old Oakland Road San Jose, CA 95112 (408) 280-7669	<b>Kansas City</b> 11712 West 95th Street Overland Park KS 66214 (913) 888-2622	<b>Pennsylvania</b>
<b>Colorado</b>	<b>Maryland (Washington D.C.)</b>	<b>Philadelphia</b> 651 Park Avenue King of Prussia, PA 19406 (215) 768-8850
<b>Denver</b> Havana Place Center 10740 East Iliff Avenue Aurora, CO 80014 (303) 755-7669	<b>Washington D.C.</b> 5300 Sunnyside Avenue Beltsville, MD 20705 (301) 595-1818	<b>Pittsburgh</b> Wexford Plaza 10610 Perry Highway, Rt. 19N Wexford, PA 15090 (412) 935-8466
<b>Florida</b>	<b>Massachusetts</b>	<b>Texas</b>
<b>Fort Lauderdale</b> 2850 North 28th Terrace Hollywood, FL 33020 (305) 920-5600	<b>Boston</b> 390 University Avenue 128 Westwood Industrial Center Westwood, MA 02090 (617) 329-5130	<b>Dallas</b> 401 Preston Valley Shopping Center Dallas, TX 75230 (214) 661-3537
<b>Georgia</b>	<b>Michigan</b>	<b>Houston</b> 7639 Westheimer Houston, TX 77063 (713) 783-8761
<b>Atlanta</b> 120 Interstate North Parkway East Suite 410 Atlanta, GA 30339 (404) 853-5871	<b>Detroit</b> 43304 Eleven Mile Road Novi, MI 48050 (313) 344-4044	<b>Washington</b>
	<b>Minnesota</b>	<b>Seattle</b> 855 Fidalgo Seattle, WA 98106 (206) 762-6500
	<b>Minneapolis</b> 4300 W. 36th Street St. Louis Park, MN 55416 (612) 920-8000	