

FM/AM PLL Synthesized Radio

Operating Instructions

ICF-M1000

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<http://www.sony.net/>

Owner's Record

The model number and the serial number are located on the bottom.

Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

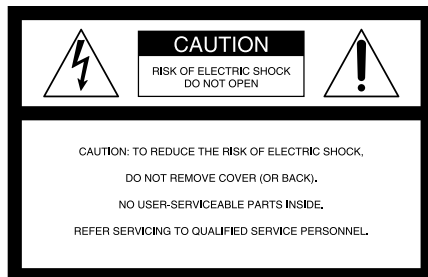
Model No. ICF-M1000

Serial No. _____

For customers who purchased this product in the USA
Please register this product on line at <http://www.sony.com/productregistration>.
Proper registration will enable us to send you periodic mailings about new products, services, and other important announcements. Registering your product will also allow us to contact you in the unlikely event that the product needs adjustment or modification. Thank you.

WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus 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.

INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Note to the CATV Installer

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Features

- High-fidelity FM/AM PLL (phase locked loop) synthesized table radio.
- Prismatic LCD display for table top use.
- Digital tuning control knob permits easy accurate tuning.
- Tone control.
- Furniture-grade, hand-lacquered high gloss surface.
- Wood based cabinet and bass reflex sound system.
- Highly sensitive built-in FM/AM antenna.
- FM ANTENNA (75 Ω) connector to connect an external FM antenna in difficult reception areas.
- Full range 3 inch speaker and cancel magnet system.
- LINE IN jack for connecting other portable audio equipment.
- LINE OUT jack to use the unit as a highly sensitive discrete tuner.
- Headphone out (ø3.5mm stereo minijack).

Precautions

- Play the unit on the power source specified in "Specifications".
- To disconnect the AC power cord (mains lead), pull it out by the plug, not the cord.
- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- The nameplate indicating operating voltage, etc. is located on the bottom exterior.
- Since a strong magnet is used for the speaker, 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 a heat source such as a radiator or airduct, 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 a surface (a rug, a blanket, etc.) or near materials (a curtain) which might block the ventilation holes.
- Should any solid object or liquid fall into the unit, unplug the unit and have it checked by a qualified personnel before operating it any further.
- To clean the casing, use a soft cloth dampened with a mild detergent solution.
- Never touch the wire of the external FM antenna during a thunderstorm. Furthermore, immediately disconnect the AC power code from the radio.

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

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 in the operating instructions, and adhere to them.

INSTALLATION

Water and Moisture

Do not use powerline operated appliances near water - for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.

Heat

Do not place the appliance near or over a radiator or heat register, or where it is exposed to direct sunlight.

Ventilation

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

-Never cover the slots and openings with a cloth or other materials.

-Never block the slots and openings by placing the appliance on a bed, sofa, rug or other similar surface.

-Never place the appliance in a confined space, such as a bookcase, or built-in cabinet, unless proper ventilation is provided.

Accessories

Do not place the appliance on an unstable cart, stand, tripod, bracket, or table. The appliance may fall, causing serious injury to a child or an adult, and serious damage to the appliance. Use only a cart, stand, tripod, bracket, or table 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

This appliance should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of electrical power supplied to your home, consult your dealer or local power company. For those appliances designed to operate from battery power, or other sources, refer to the operating instructions.

Grounding or Polarization

This appliance is equipped with a polarized AC power cord plug (a plug having one blade wider than the other), or with a three-wire grounding type plug (a plug having a third pin for grounding). Follow the instructions below:

-For the appliance with a polarized AC power cord plug:

This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the polarized plug by forcing it in.

-For the appliance with a three-wire grounding type AC plug:

This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the grounding plug.

Overloading

Do not overload wall outlets, extension cords or convenience receptacles beyond their capacity, since this can result in fire or electric shock.

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.

Power-Cord Protection

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

Lightning

For added protection for this appliance during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the appliance due to lightning and powerline surges.

Object and Liquid Entry

Never push objects of any kind into the appliance through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the appliance.

Cleaning

Unplug the appliance from the wall outlet before cleaning or polishing it. Do not use liquid cleaners or aerosol cleaners. Use a cloth lightly dampened with water for cleaning the exterior of the appliance. Clean the appliance only as recommended by Sony.

Attachments

Do not use attachments not recommended by Sony, as they may cause hazards.

ANTENNAS

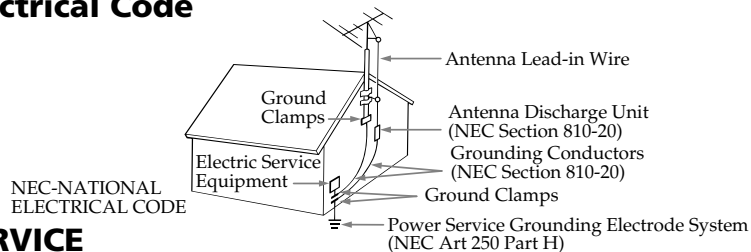
Outdoor Antenna Grounding

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



SERVICE

Damage Requiring Service

Unplug the appliance from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power cord or plug is damaged or frayed.
- If liquid has been spilled or objects have fallen into the appliance.
- If the appliance has been exposed to rain or water.
- The appliance does not appear to operate normally or exhibits a marked change in performance.
- This indicates a need for service.

-If the appliance does not operate normally when following the operating instructions, adjust only those controls that are specified in the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the appliance to normal operation.

-If the appliance has been subject to excessive shock by being dropped, or the cabinet has been damaged.

Servicing

Do not attempt to service the appliance yourself as opening or removing covers may expose you to dangerous voltage or other hazards.

Refer all servicing to qualified service personnel.

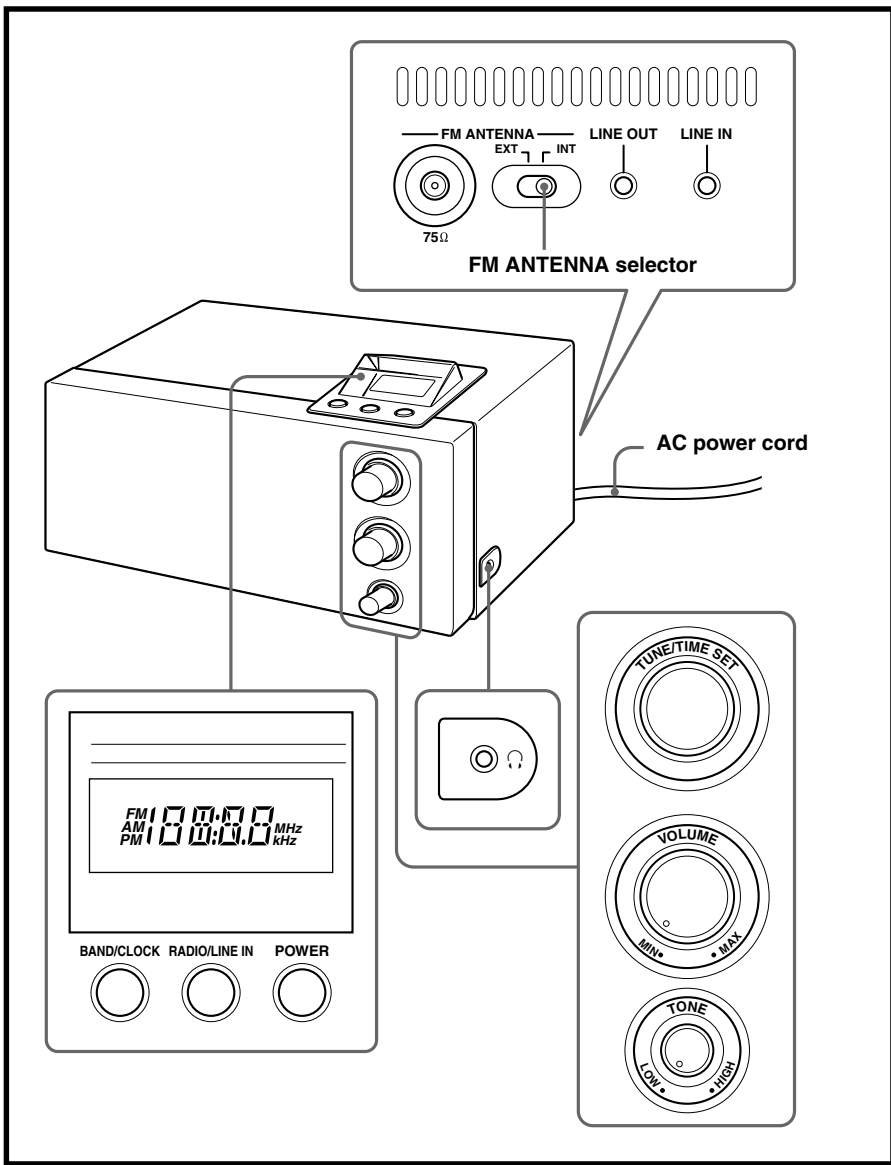
Replacement parts

When replacement parts are required, be sure the service technician has used replacement parts specified by Sony that have the same characteristics as the original parts.


Unauthorized substitutions may result in fire, electric shock, or other hazards.

Safety Check

Upon completion of any service or repairs to the appliance, ask the service technician to perform routine safety checks (as specified by Sony) to determine that the appliance is in safe operating condition.



Setting the clock

- 1 Plug in the unit.
The display will flash "AM 12:00".
 - 2 Press **POWER** to turn off the radio when it is turned on.
 - 3 Press and hold **BAND/CLOCK** for a few seconds.
You will hear a beep and the hour will start to flash in the display.
- 
- 4 Turn **TUNE/TIME SET** right or left until the correct hour appears in the display.
 - 5 Press **BAND/CLOCK** once.
The hour is set and the minutes start to flash.
 - 6 Repeat steps 4 and 5 to set the minute.
Two short beeps sound, ":" starts flashing, and the clock starts operating.

If you do not set the clock within 65 seconds, the setting is canceled.

Playing the radio

You can use an external FM antenna although the AC power cord functions as an FM antenna. When you use an external FM antenna, connect the antenna cable to **FM ANTENNA** connector on the rear of the radio and then set **FM ANTENNA** selector to **EXT**. When you do not use an external FM antenna, set **FM ANTENNA** selector to **INT**.

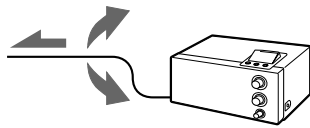
- 1 Press **POWER** to turn on the radio.
If "LINE" is displayed, press **RADIO/LINE IN** so that the frequency appears.
- 2 Press **BAND/CLOCK** to select the band AM or FM.
- 3 Turn **TUNE/TIME SET** right or left to tune in to a desired frequency.
Two short beeps sound when the minimum frequency of each band is received during tuning.
- 4 Adjust the volume using **VOLUME**.
- 5 Set the tone using **TONE**.
To adjust the tone, turn **TONE** to **LOW/HIGH**.

To listen with the headphones

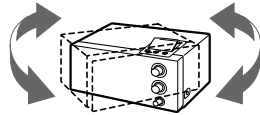
You can enjoy the radio and external equipment connected to the line in by the headphones (not supplied). Connect the headphones (not supplied) to the (headphones) jack. The speaker is deactivated when the headphones are connected. The headphones output AM broadcasts in monaural (same sound is output from both headphones), while FM stereo broadcasts are output in stereo.

Improving the reception

FM: The AC power cord functions as an FM antenna. Select **FM ANTENNA** selector to **INT** and extend the AC power cord fully to improve FM reception.



AM: Rotate the unit horizontally for optimum reception. A ferrite bar antenna is built into the unit.



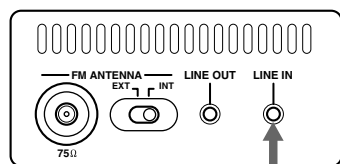
Notes

- Do not play the unit over a steel desk or metal surface, as this may lead to interference of reception.
- If using an external FM antenna, set **FM ANTENNA** selector to **EXT**, then connect the 75 Ω coaxial cable (not supplied) to **FM ANTENNA (75 Ω)** connector on the rear of the unit.
- To receive FM signals via cable available from some cable TV providers, contact your cable TV company for assistance.

Connecting external equipment

To listen to sound

- 1 Connect the **LINE IN** jack of the unit to the line out jack or headphone jack of the external equipment using the audio connecting cable (supplied).



Audio connecting cable (supplied)

To external equipment

- 2 Press **POWER** to turn on the radio.

- 3 Press **RADIO/LINE IN** to select "LINE" in the display.



- 4 Play the equipment connected to the **LINE IN** jack.
- 5 Adjust the volume using **VOLUME**.

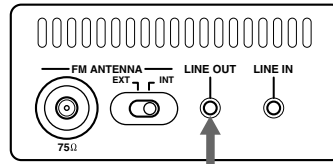
To return to the radio

Press **RADIO/LINE IN**.

The frequency is shown in the display.

To record with LINE OUT

- 1 Connect the **LINE OUT** jack of the unit to the line in jack of the external equipment using the audio connecting cable (supplied).



Audio connecting cable (supplied)

To external equipment

- 2 Press **POWER** to turn on the radio.
- 3 Tune the unit to the radio station that you want to record.
- 4 Start to record on the connected equipment.

Notes

- Refer also to the connected equipment's manual.
- The supplied audio connecting cable may not be used with some external equipment. In this case, use a cord suitable for the external equipment you are using.
- **LINE OUT** signal of AM broadcasts is output in monaural (same sound is output from both headphones). And **LINE OUT** signal of FM stereo broadcasts is output in stereo.
- The sound quality of **LINE OUT** signal is constant regardless of the position of **TONE**, and the output level is constant regardless of the position of **VOLUME**.

- When you listen to the radio with external equipment connected, turn off the connected equipment because noise may be caused. If noise continues, even when the equipment is turned off, disconnect and place the external equipment away from the unit.
- If there are line out and headphone jacks on external equipment, connect to the line out jack.
- If you connect with the headphone jack of the external equipment, some equipment may not perform tone switch function (e.g., bass boost, equalizer etc.).

Specifications

Time display

12-hour system

Frequency range

FM : 87.5 - 108 MHz
AM : 530 - 1 710 kHz

Speaker

Approx. 7.7 cm (3 1/8 inches) dia. 4 Ω

Output

LINE OUT jack (ø 3.5 mm stereo minijack)
(headphones) jack (ø 3.5 mm stereo minijack)

Input

LINE IN jack (ø 3.5 mm stereo minijack)

Antenna terminal

75 Ω external antenna terminal for FM

Power output

4 W (at 10 % harmonic distortion)

Power requirements

120 V AC, 60 Hz

Dimensions

Approx. 300 × 120 × 170 mm (w/h/d)

(11 7/8 × 4 3/4 × 6 3/4 inches) not incl. projecting parts and controls

Mass

Approx. 2.3 kg (5 lb 1.13 oz)

Supplied accessory

Audio connecting cable (1)

Design and specifications are subject to change without notice.



Lead-free solder is used for soldering.
Halogenated flame retardants are not used in printed wiring boards.

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Tape Cassette Player/Recorder/CD Player/Mini Disc
DAT/Radio/Head Phone/Speaker/MIC/Personals

Portable Audio

LIMITED WARRANTY

Sony Electronics Inc. ("Sony") warrants this Product (including any accessories) against defects in material or workmanship as follows:

1. **LABOR:** For a period of one (1) year from the date of purchase, if this Product is determined to be defective, Sony will repair or replace the Product, at its option, at no charge, or pay the labor charges to any Sony authorized service facility. After the Warranty Period, you must pay for all labor charges.
2. **PARTS:** In addition, Sony will supply, at no charge, new or rebuilt replacements in exchange for defective parts for a period of one (1) year. After the warranty period, you must pay for all parts costs.
3. **ACCESSORIES:** Parts and labor for all accessories are for one (1) year.

To obtain warranty service, you must take the Product, or deliver the Product freight prepaid, in either its original packaging or packaging affording an equal degree of protection, to any authorized Sony service facility.

This warranty does not cover customer instruction, installation, set up adjustments or signal reception problems.

This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of the Product, including the antenna. This warranty does not cover damage due to improper operation or maintenance, connection to improper voltage supply, or attempted repair by anyone other than a facility authorized by Sony to service the Product. This warranty does not cover Products sold AS IS or WITH ALL FAULTS, or consumables (such as fuses or batteries). This warranty is valid only in the United States.

Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the Warranty period must be presented to obtain warranty service.

This warranty is invalid if the factory applied serial number has been altered or removed from the Product.

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 have other rights which vary from state to state.

For your convenience, Sony Electronics Inc. has established telephone numbers for frequently asked questions:

To locate the servicer or dealer nearest you, or for service assistance or resolution of a service problem, or for product information or operation, call:

Sony Customer Information Services Center
1-800-222-7669
or visit the Sony Web Site:
www.sony.com

For an accessory or part not available from your authorized dealer, call:

1-800-488-SONY (7669)