SONY®

FM/AM
CD Clock Radio

Operating Instructions

DREAM MACHINE

Dream Machine is a trademark of Sony Corporation.

ICF-CD823

Sony Corporation © 2000   Printed in Malaysia

Sony on line   http://www.world.sony.com/

LIMITED WARRANTY
(Portable Audio)
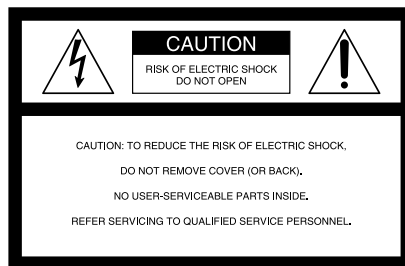
FOB 30$ 以上

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-CD823
Serial No. _____

WARNING

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

CAUTION	
⚡ RISK OF ELECTRIC SHOCK DO NOT OPEN	⚠

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

⚡ 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 of the 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.

CAUTION
The use of optical instruments with this product will increase eye hazard.

Before You Begin

Thank you for choosing the Sony CD clock radio! It 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

• Built-in CD Player with Shuffle/Repeat function.
• You can wake up to any track of a CD.
• PLL (Phase Locked Loop) Synthesized Tuner with 5 random memory presets for easy one button tuning.
• Dual alarm.
• Alarm setting dial—easy to set alarm time and modes.
• Extendable snooze—snooze time can be extended from 8 to 60 minutes in maximum every time you use.
• Summer time (daylight saving time) calculation.

Precautions

• Operate the unit on the power source specified in the "Specifications."
• The nameplate indicating operating voltage, etc. is located on the bottom of the unit.
• To disconnect the power cord (mains lead), pull it out by the plug, not the cord.
• 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.
• 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 mar the casing.

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

Troubleshooting

Should any problem occur with the unit, make the following checks to determine whether or not servicing is required. If the problem persists, consult the nearest Sony dealer.

The clock does not show the correct time.
• Has an electrical power outage lasting more than one minute occurred?

The CD, radio or buzzer alarm does not sound at the preset alarm time.
• Is the alarm setting dial set to the desired **ALARM MODE**?

The radio alarm is activated but no sound comes on at the preset alarm time.
• Has a station been preset onto preset button 1?
• Has **VOLUME** been adjusted ?

The CD player does not operate.
• Did you close the CD lid?
• Did you place the disc correctly? The disc should be placed with the labeled side up.
• Dusty or defective disc—Clean the disc with an optional cleaning cloth. Wipe the disc from the center out.
• Take out the CD and leave the CD compartment open for about an hour to get rid of moisture condensation.

Sporadic loss of sound in CD operation.
• Dusty or defective disc—Clean or replace the disc.
• Volume too high—Reduce the volume.
• Strong vibration.

No sound comes from the speakers.
• Hasn't the alarm setting dial been remained setting to **ALARM TIME SET**?

Specifications

CD player section
System: Compact disc digital audio system
Laser diode properties: Material: GaAlAs
 Wavelength: 780 nm
 Emission duration: Continuous
 Laser output: Less than 44.6 µW
 (This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block with 7mm aperture.)
Frequency response: 20-20,000 Hz $^{+1}_{-1.5}$ dB
Wow and flutter: Below measurable limit

Radio section
Frequency range:
 FM: 87.5-108 MHz
 AM: 530-1,710 kHz
Channel step:
 FM: 0.1 MHz (fixed)
 AM: 10 kHz (fixed)

General
Time display:
 12-hour system
Speaker:
 77 mm (3 $^1/_8$ inches) dia., 8 Ω
Power outputs:
 1.2W + 1.2W (at 10% harmonic distortion)
Power requirements:
 120 V AC, 60 Hz
Dimensions:
 Approx. 250 × 153 × 207 mm(w/h/d)
 (Approx. 9 $^7/_8$ × 6 $^1/_8$ × 8 $^1/_4$ inches) incl. projecting parts and controls
Mass:
 Approx. 1,700 g (3 lb 12 oz)

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

Antenna Lead-in Wire
Ground Clamps
Antenna Discharge Unit (NEC* Section 810-20)
Grounding Conductors (NEC* Section 810-21)
Electric Service Equipment
Ground Clamps
Power Service Grounding Electrode System (NEC* Art 250 Part H)
—NEC National Electrical Code—
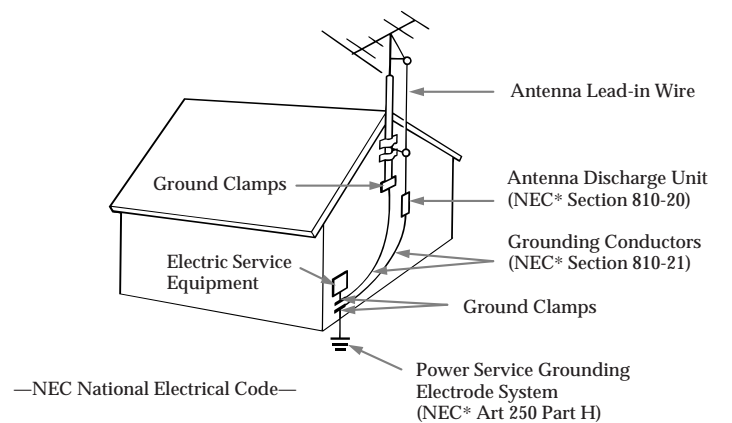
SERVICE
Unplug the appliance from the wall outlet and consult qualified service personnel when:
-the power cord or the plug has been damaged.
-a solid object or liquid has fallen into the cabinet.
-the appliance has been exposed to rain or moisture.
-the appliance does not appear to operate normally 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.

Setting the Clock and Date

1 Set the alarm setting dial to **ALARM MODE OFF**.

2 Plug in the clock radio.
The display will flash "AM 12:00".

3 Press **CLOCK** for a few seconds.
You will hear a beep and the year will start to flash in the display.

4 Press **CLOCK +** or **–** until the correct year appears in the display.

5 Press **CLOCK** once.

6 Repeat steps **4** and **5** to set the month, day, hour, and minute.
After setting the minute, press **CLOCK** to start the counting of the seconds, and you will hear two short beeps.

- To display the year and date, press **SNOOZE/DATE/SLEEP OFF** once for the date, and within 2 seconds press it again for the year. The display shows the date or year for a few seconds and then changes back to the current time.
- To set the current time rapidly, hold down **CLOCK +** or **–**.
- In step **6**, when you press **CLOCK** after the minute setting to activate the clock, the seconds start counting from zero.
- When the alarm setting dial is set to **ALARM TIME SET A** or **B**, the clock cannot be set.

To change the display to the daylight saving time (summer time) indication
Press **D.S.T./SUMMER T.**
" ☀ " is displayed and the time indication changes to summer time.
To deactivate the summer time function, press **D.S.T./SUMMER T.** again.

Playing a CD

An 8 cm (3-inch) CD can be played without an adaptor.

1 Push **OPEN/CLOSE** to open the CD compartment lid and place a disc.

2 Close the CD compartment lid.

Push

Labeled surface up

Close the lid

3 Press **CD ▶II**.
"CD ▶" and "01" appear on the display to indicate that track 1 of the CD is playing.

4 Turn **VOLUME** to adjust the volume.

To	Press
Pause	**CD ▶II**
Resume play after pause	**CD ▶II** again
Locate the beginning of the current track (AMS*)	I◀◀**
Locate the next track (AMS)	▶▶I**
Go back at high speed	Hold down I◀◀**
Go forward at high speed	Hold down ▶▶I**
Locate the previous track (AMS)	I◀◀ repeatedly**
Locate the succeeding track (AMS)	▶▶I repeatedly**
Stop play	**OFF•ALARM RESET**

* AMS = Automatic Music Sensor
**These operations are possible during both play and pause.

- To handle compact discs

Correct

Handle the disc by its edge.

Incorrect

Do not touch the surface.

Do not stick paper or tape nor write anything on the surface.

Note
If you press CD ▶II when there is no disc in the CD compartment, "00" flashes for about 5 seconds on the display and the unit turns off automatically.

Various Modes of CD Playback

You can play tracks repeatedly or in random order.

Press **CD PLAY MODE**.
Each press changes the play mode as follows:

Display indication	Play mode
none	(normal play)
All the tracks are played once.

| "REP 1" | (single repeat) |
A single track is played repeatedly.

| "REP ALL" | (all repeat) |
All the tracks are played repeatedly.

| "SHUFFLE" | (shuffle play) |
All the tracks are played once in random order.

| "SHUFFLE REP" | (shuffle repeat) |
All the tracks are played repeatedly in random order.

Playing the Radio Manual Tuning

1 Press **RADIO•SLEEP** to turn on the radio.
"RADIO" appears in the display.
The display shows the band and frequency for a few seconds and then changes back to the current time.

2 Press **BAND** repeatedly to select the desired band.

3 Use **TUNING +** or **–** to tune in to the desired station.
The FM frequency advances or reverses in 0.1MHz channel steps and the AM frequency in 10kHz channel steps.
Two short beeps sound when the minimum frequency of each band is received during tuning.

4 Adjust volume using **VOLUME**.

- To turn off the radio, press **OFF•ALARM RESET**.
- To improve radio reception
  FM: Extend the FM wire antenna fully to increase reception sensitivity.
  AM: Rotate the unit horizontally for optimum reception. A ferrite bar antenna is built into the unit.

  Do not operate the unit over a steel desk or metal surface, as this may lead to interference of reception.

- To check the station being received, press **TUNING +** or **–** lightly. The display shows the band and frequency for a few seconds and then changes back to the current time.
- If the radio alarm comes on while the radio is on, the unit switches to the station on preset button 1 (WAKE UP STATION).

Preset Tuning

You can preset up to 5 stations; one station for each preset buttons 1 to 5, for one-touch tuning.

Presetting a station
Example: To preset AM 1260 kHz onto preset button **2**.

1 Press **RADIO•SLEEP** to turn on the radio.

2 Tune in to the station on AM 1260 kHz (See "Manual Tuning").

3 Hold down the desired **STATION•SELECT/PRESET** button (in this case, **2**) until you hear two short beeps.

RADIO
AM **1260** P2

The display shows the frequency for a few seconds and then changes back to the current time.

For the radio alarm, preset the station to be used as the alarm onto preset button 1.

To change a preset station
Tune in manually to the station you want to store and hold down the preset button until you hear two short beeps. The previously stored station will be replaced by the new one.

Tuning in to a preset station

1 Press **RADIO•SLEEP** to turn on the radio.

2 Press the **STATION•SELECT/PRESET** button where the desired station is stored.

3 Adjust the volume using **VOLUME**.
After a few seconds, the display returns to the current time but the preset button number remains.

Setting the Alarm

This radio is equipped with 3 alarm modes — CD, radio and buzzer. Before setting the alarm, make sure to set the clock (see "Setting the Clock").

To Set the Alarm Time

To set the A CD alarm:

1 Set the alarm setting dial to **ALARM TIME SET A** (CD).
After one beep, " A CD " and the alarm time set in the previous time will flash in the display.

2 Press **CLOCK +** or **–** until the desired time appears.
When **CLOCK +** or **–** is held down, the displayed time initially changes in one-minute steps, and after a few seconds, switches to ten-minute steps.

3 Set the alarm setting dial to **ALARM MODE OFF**. Two short beeps will confirm the setting.

To set the B RADIO or B BUZZER alarm:

1 Set the alarm setting dial to **ALARM TIME SET B** (radio or buzzer).
After one beep, " B RADIO " or " B BUZZER " and the alarm time set in the previous time will flash in the display.

2 Press **CLOCK +** or **–** until the desired time appears.
When **CLOCK +** or **–** is held down, the displayed time initially changes in one-minute steps, and after a few seconds, switches to ten-minute steps.

3 Set the alarm setting dial to **ALARM MODE OFF**. Two short beeps will confirm the setting.

- When the alarm setting dial is set to **ALARM TIME SET A** or **B**, the sound of the CD or the radio will be interrupted.

To Set the Alarm Mode

Before setting the alarm mode, be sure to set the alarm time. (See "To Set the Alarm Time".)

Set the alarm setting dial to the desired alarm mode (**A**, **B**, or **A+B**). When the alarm setting dial is set to **ALARM MODE B** or **A+B**, you can choose B RADIO or B BUZZER by switching the modes in **ALARM B**.
According to the alarm mode that you set, A CD , B RADIO , or B BUZZER will appear in the display.

Alarm	Set the alarm setting dial to	Set ALARM B to	Display
CD	ALARM MODE A	———	A CD
Radio	ALARM MODE B	RADIO	B RADIO
Buzzer	ALARM MODE B	BUZZER	B BUZZER
CD and Radio	ALARM MODE A + B	RADIO	A CD B RADIO
CD and Buzzer	ALARM MODE A + B	BUZZER	A CD B BUZZER

When the radio alarm is activated, the radio station that is preset on the preset button 1 (WAKE UP STATION) turns on at the preset time. For the radio alarm, make sure you have preset a radio station onto preset button 1 (See "Preset Tuning").

To Set the Wake Up Track

1 Press **WAKE UP TRACK** for a few seconds until you hear a beep.
The track number flashes on the display.

2 Press **TUNING +** or **–** to select the desired track number.
The track number can be set up to 99.

3 Press **WAKE UP TRACK** again.
Two short beeps sound to confirm the setting.

To Check the Alarm Time

Press **ALARM TIME CHECK**.
The display shows the alarm time for a few seconds and then returns to show the current time.
When the alarm setting dial is set to either **ALARM MODE OFF** or **ALARM MODE A+B**, the alarm time in **ALARM MODE A** and then **ALARM MODE B** appears in the display.

- Alarm time in **ALARM MODE A** and **ALARM MODE B** is set at AM 12:00 when you purchased the unit.

ALARM ON—

When the alarm comes on at the preset time, " A CD ", " B RADIO ", or " B BUZZER " flashes in the display.

For the buzzer alarm, the beeping of the alarm becomes more rapid after every few seconds in five progressive stages.

- When CD and radio, or buzzer alarms are set for the same time, and you choose **ALARM MODE A + B**, the CD alarm takes precedence.

Note
If you set the CD alarm and there is no disc in the CD player, the buzzer alarm will sound in its place at the time set.

To Doze for a Few More Minutes

Press **SNOOZE/DATE/SLEEP OFF**.
The CD, radio or buzzer alarm turns off but will be automatically activated again after about 8 minutes. Every time you press **SNOOZE/SLEEP OFF**, the snooze time changes as follows:

8 → 16 → 24 → 32
→ 40 → 48 → 56 → 60

The display shows the snooze time for a few seconds and returns to show the current time. When you press **SNOOZE/DATE/SLEEP OFF** after the current time appeared, the snooze time starts from 8 minutes again.

- The maximum length of the snooze time is 60 minutes.

ALARM OFF—

The alarm is turned off automatically after 60 minutes.

To Stop the Alarm

Press **OFF•ALARM RESET** to turn off the alarm.
The alarm will come on again at the same time the next day.

To Cancel the Alarm

Set the alarm setting dial to **ALARM MODE OFF**.

Setting the Sleep Timer

You can enjoy falling asleep to the radio using the built-in sleep timer that turns off the radio automatically after a preset duration.

Press **RADIO•SLEEP**.
The radio turns on. You can set the sleep timer to durations of 90, 60, 30, or 15 minutes. Every push changes the display as follows:

On → 90 → 60
15 ← 30

Two short beeps sound when the display returns to "On".
"SLEEP" will appear in the display when the duration time is set.
The radio will play for the time you set, then shut off.

- To turn off the radio before the preset time, press **SNOOZE/DATE/SLEEP OFF**.

To Use Both the Sleep Timer and the Alarm

You can enjoy falling asleep to the radio and be awakened by the CD, radio or buzzer alarm.

1 Set the alarm. (See "Setting the Alarm".)

2 Set the sleep timer. (See "Setting the Sleep Timer".)

CD PLAY MODE · WAKE UP TRACK
TUNING
STATION SELECT/PRESET · PRESET TUNING · BAND
CD · RADIO · OFF
SLEEP · ALARM RESET
SNOOZE/DATE/SLEEP OFF
WAKE UP STATION

PUSH OPEN/CLOSE

FM wire antenna

AC power cord

VOLUME

RADIO A CD B RADIO B BUZZER CD
SLEEP SHUFFLE REP1 ALL TRACK
FM
AM
PM
MHz/kHz

ALARM MODE
D.S.T. SUMMER T.
ALARM B RADIO BUZZER
ALARM TIME CHECK
ALARM TIME SET
CLOCK

Alarm setting dial