FM/AM CD Kitchen **Clock Radio**

Operating Instructions

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.

ICF-CD523

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http://www.sony.net/

SONY

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

Portable Audio

D 455714502

LIMITED WARRANTY

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

- 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 defe 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 prob-

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

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 CONSCUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIB-TIED 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:

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

1-800-488-SONY (7669)

Owner's Record

The model number and the serial number are located

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-CD523

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 top of the

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 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 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
- -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

CAUTION

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

Features

- Built-in CD player with Shuffle/Repeat function.
 PLL (Phase Locked Loop) Synthesized Tuner with 15 memory presets for easy one button tuning.
 Powerful bass with MEGABASS sound system.
- Single alarm function which can be used as timer.
- ner time (daylight saving time) calculation

Precautions

- · Operate the unit on the power source specified in "Specifications."
- 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.
 To clean the casing, use a soft cloth dampened with a mild detergent solution.

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

Troubleshooting

Should any problem persist after you have made the following checks, consult your nearest Sony dealer.

The clock does not show the correct time.

Has an electrical power outage lasting more than

The CD player does not operate.

- Did you close the disc tray?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
- Take out the CD and leave the CD compartm open for about an hour to get rid of moistur

Sporadic loss of sound in CD operation.

- Dusty or defective disc—Clean or replace the disc. Volume too high—Reduce the volume.
- · Strong vibration

Specifications

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

ith 4-ohm loads, both channels driven from 150-6 000 Hz; rated 1.2 W per channelminimum RMS power, with no more than 10% total harmonic distortion in AC operation.

CD player section

System: Compact disc digital audio system

Laser diode properties:

Laser output: Less than 44.6 uW (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 7 mm aperture.) Frequency response: 20-20 000 Hz +1 dB Wow and flutter: Below measurable limit

Radio section

Frequency range: FM: 87.5-108 MHz

AM: 530-1 710 kHz

General

Time display:

12-hour system Speaker:

66 mm (2 $\frac{5}{8}$ inches) dia, 4 Ω

Power outputs: 1.2 W + 1.2 W (at 10 % harmonic distortion)

Power requirements: 120 V AC, 60 Hz

Approx. $365 \times 106 \times 281 \text{ mm (w/h/d)}$ (Approx. $14 \frac{3}{8} \times 4 \frac{1}{4} \times 11 \frac{1}{8}$ inches) incl. projecting parts and controls

Mass:

Approx. 3.0 kg (6 lb 9 oz)

Supplied accessories:

Mounting screws (4), Template (1), Spacers (4), Cord clamp (1)

Design and specifications are subject to change

IMPORTANT SAFEGUARDS

ror 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.

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

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.

onocked 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

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

Accessories

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

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 cortex plant is such a plug having a third pin for grounding).

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

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 ProtectionRoute 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.

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

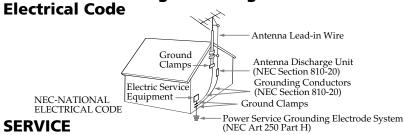
ANTENNAS

Outdoor Antenna GroundingIf 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



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 damage 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.

-1 his 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.

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.

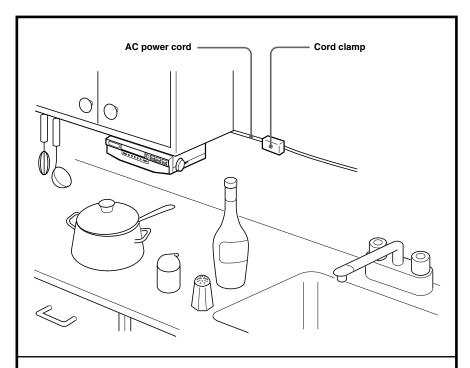
Replacement parts When replacement parts are required, be sure the service technician has used replacement parts specified by Sony that have the same characteristics as the original parts.

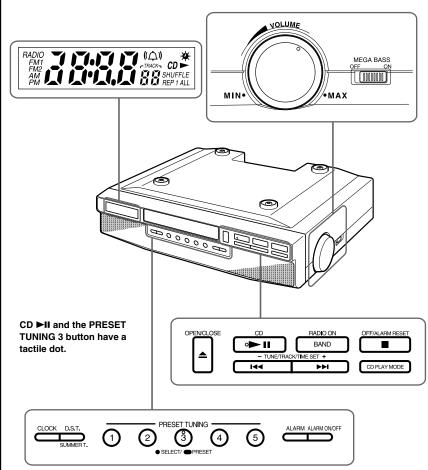
Unauthorized substitutions may result in fire, electric shock, or other hazards.

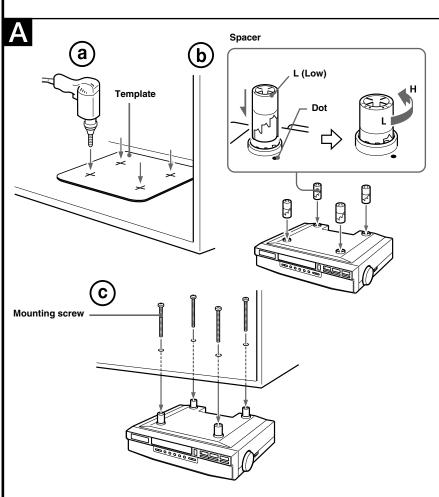
Safety Check

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

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Installing the Unit Under a Cabinet

(See Fig. A)

- **1** Mark the position of the 4 holes by using the supplied template. Use a drill to make the holes (size 6.5 mm dia., 9/32 inch). (See Fig. A -(a))
- **2** When the cabinet door overhangs the shelf and obstructs the unit, you can adjust the unit/shelf height.

First set the L mark to the dot which becomes the lowest position, then you can adjust the height in 4 steps (H••L) by turning the spacer counterclockwise. (See Fig. **A**-**b**)

3 Install the unit with the supplied mounting screws. (See Fig. A-©)

Cautions

- Since the unit is very heavy, be careful when installing the unit.
- You need two people to install the unit.
 Be careful with the tools you use when installing
- Be sure that the cabinet is sturdy enough to support
- the weight of the unit.

 To reduce the risk of fire, do not place any heating
- or cooking appliance beneath this unit.

 Install the unit so that its AC power cord can be connected directly to a wall outlet. Do not use a
- converter or extension cord.

 Be sure that the AC power cord has no slack when using the unit, since the cord acts as an FM wire antenna. If the AC power cord has some slack, wind it up to the cord hook until the cord has no
- The unit has a built-in ferrite bar antenna for AM radio reception. Check the condition of AM
- reception before fixing in position.

 Install the unit as far as possible from a source of noise. (for example, refrigerator, microwave oven fluorescent lamp, etc.)
- This unit is not waterproof. The unit should be installed where it will not be exposed to splashing
- water, which could damage the unit.

 To reduce the risk of fire or electric shock, do not touch the AC power cord with wet hands.
- Never place objects between the top of the unit and the bottom of the cabinet. This could cause the unit

Setting the Clock

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

to fall.

2 Press CLOCK for a few seconds. You will hear a beep and the hour will start to flash in the display



- 3 Press TUNE/TRACK/TIME SET + or - until the correct hour appears in the display.
- 4 Press CLOCK once.

The minute will flash.



- **5** Repeat steps **3** and **4** to set the minute. After setting the minute, press **CLOCK** to start the counting of the seconds, and you will hear two short beeps
- To set the current time rapidly, hold down **TUNE/TRACK/TIME SET +** or **-**.
- 12-hour system: "AM 12:00" = midnight
 In step 5, when you press CLOCK after the minute setting to activate the clock, the seconds start

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

1 Press **OPEN/CLOSE △** and place a CD



- **2** Press **OPEN/CLOSE △** to close the disc
- 3 Press CD ►II.

Track "01" appears in the display.
The player plays all the tracks once.

4 Adjust volume using **VOLUME**.

То	Press
Pause	CD ►II
Resume play after pause	CD ►II again
Locate the beginning of the current track (AMS*)	◄ **
Locate the next track (AMS)	▶▶ **
Go back at high speed	Hold down ◄◄ **
Go forward at high speed	Hold down ►► **
Locate the previous track (AMS)	◄ repeatedly**
Locate the succeeding track (AMS)	►►I repeatedly**
Stop play	

- * AMS = Automatic Music Sensor
- **These operations are possible during both play and pause.
- This player cannot play CD-R/RW.

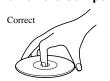
Note on DualDiscs

A DualDisc is a two sided disc product which mates DVD recorded material on one side with digital audio material on the other side. However, since the audio material side does not conform to the Compact Disc (CD) standard, playback on this product is not

Music discs encoded with copyright protection technologies

This product is designed to play back discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some recor companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

To handle compact discs



Handle the disc by its edge.



Do not touch the



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

- If you press CD > II when there is no disc in the CD compartment, "00" flashes for a few seconds on the display and the unit turns off automatically.
- Discs with non-standard shapes (e.g., heart, square, star) cannot be played on this unit. Attempting to do so may damage the unit. Do not use such discs.

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 All the tracks are play	(normal play) ←
"REP 1" A single track is playe	(single repeat) d repeatedly.
"REP ALL" All the tracks are play	(all repeat) ed repeatedly.
"SHUFFLE"	(shuffle play)

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

All the tracks are played once in random order.

Playing the Radio

Manual Tuning

- 1 Press RADIO ON•BAND 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
- 2 Press RADIO ON•BAND repeatedly to select the desired band.

Each press changes the band as follows:



- * When using FM1 or FM2 preset mode, you may listen to the radio on either mode (See "Preset Tuning")
- 3 Use TUNE/TRACK/TIME SET + or to tune in to the desired station

The FM channel step is set to 0.1 MHz and the AM channel step is set to 10 kHz.

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 AC power cord fully to improve FM reception.
- AM: When installing the unit, rotate the unit horizontally for optimum reception and then install the unit. A ferrite bar antenna is built into the unit.
- To check the station being received, press RADIO ON BAND lightly. The display shows the band and frequency for a few seconds and then changes back to the current time.

Preset Tuning

You can preset 10 stations in FM (5 stations in FM1, 5 stations in FM2) and 5 stations in AM.

Presetting a Station

Example: To preset FM90 MHz onto preset button **2** for FM2.

- 1 Press RADIO ON•BAND to turn on the radio.
- **2** Press **RADIO ON•BAND** to select FM2.
- **3** Tune in to the station on FM90 MHz (See
- "Manual Tuning"). 4 Hold down the PRESET TUNING button 2 until you hear two short beeps.



The display shows the frequency for a few seconds

To change a preset station

Tune in manually to the station you want to store and hold down the **PRESET TUNING** buttons (1-5) 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 ON•BAND to turn on the radio
- 2 Press RADIO ON•BAND to select the band.
- **3** Press the **PRESET TUNING** button lightly where the desired station is stored.
- **4** Adjust the volume using **VOLUME**. After a few seconds, the display returns to the current time but the preset button number remains

When the **PRESET TUNING** buttons (1-5) are pressed lightly, the radio station that is preset will be selected. When they are pressed for a while, the

Useful Functions

To Obtain Powerful Bass

Switch MEGA BASS to ON.

The "MEGA BASS" system produces a powerful bass

Setting the Alarm

Before setting the alarm, make sure to set the clock (see "Setting the Clock")

To Set the Alarm Time

- 1 Press ALARM for a few seconds. You will hear a beep and the hour will start to flash in the display.
- 2 Press TUNE/TRACK/TIME SET + or - until the desired time appears in the display.
- **3** Press **ALARM** once.
- The minutes starts to flash.
- 4 Repeat steps 2 and 3 to set the minute. Two short beeps will confirm the setting, and the display will show the current time.

To Check the Alarm Time Press **ALARM**.

The display shows the alarm time for a few seconds and then returns to show the current time.

ALARM ON

To Set the Alarm Mode

Press ALARM ON/OFF to set the alarm. "((△))" will appear in the display

When the alarm comes on at the preset time, "((△))"

flashes in the display **ALARM OFF**

The alarm is turned off automatically after 60

To Stop the Alarm

Press **OFF/ALARM RESET** ■ to turn off the alarm.

The alarm will come on again at the same time the

To Cancel the Alarm Press ALARM ON/OFF.

"((众))" will disappear from the display.

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