FM/AM CD Kitchen Clock Radio

Operating Instructions

DREAM MACHINE

ICF-CD513
Sony Corporation (c) 2000 Printed in Thailand

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

## Owner's Record

he model nu top. Record the serial number in the space provided below. Refer to them whenever you call
Model No. ICF-CD513

## WARNING

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

 produc' senclosure that may be of
sufficient magnitude to constitute a risk
of electric shock to persons. of electric shock to person.
$\triangle$ This symbol is intended to aiert the user
to the presence of important operating to the presence of important operating
and maintenance (servicing) instructions in the literature accompanying the
appliance. appliance.
*The graphical symbols are on the top of the
enclosure.

## INFORMATION



## Precautions

Operate the unit on the power source
specified in the "Specifications." To disconnect the power cord (mains lead),
puli it out by the plug, not the cord. pull it out by the plug, not the cord.
Do not leave the unit in a location near source such as a radiator or arituctuet, 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 blarket, etc.) or near on a surface (a rug, a blanket, etc.) or near
materials (a curtain) which might block the ventilation h holes.
Shoulda
Should any yosidid object or liquid fall into the
unit, unplug the unit and have it checked by a unit, unplug the unit and have it checked by
qualified personnel before operating it any qualified
further.
To clean the casing, use a soft cloth dampened
you have detergent solution.
concerning your questions or problems
nearest Sony dealer.

## Troubleshooting

Should any problem occur with the unit, make
the following checks to determine whether or no servicing is required. If the problem persists.
onsult the nearest Sony deale.
The clock does not show the correct time.

- Has an electrical power outage lasting mo
- Has an electrical power outa

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 compartment open for about and
rid of moisture condensation.
Sporadic loss of sound in CD operation. - Dusty or defective disc-Clean or replace the
disc. - Vise.
Volume too high-Reduce the volume.
Strong vibration.

## Specifications

CD player section
System: Compact disc digital audio system Wavelength: 780 nm
Emission duration: Continuous
Laser output: Less than 4 . Laser output: Less than 44.6 HW (This output is the value measured at a
distance of about 200 mm from the objec lens surface on the optical pick-up block with 7 mm aperture.)
Frequency response: $20-20000 \mathrm{~Hz}$ +2 HB
Wow and flutter: Below measurabe
Radio section
Frequency range:
FM: $87.5-108 \mathrm{MH}$
FM: $87.5-108 \mathrm{MHz}$
AM: $530-1710 \mathrm{kHz}$
Channel step:
hannel step:
FM: 0.1 MHz (fixed)
AM: 10 kHz (fixed)
General
Time display
12 hour system

| Speaker: |
| :---: |
| 66 mm |

$66 \mathrm{~mm}(2 \%$ inches $)$ dia, 40
Power outputs:
$1.2 \mathrm{~W}+1.2 \mathrm{~W}(2$
$1.2 \mathrm{~W}+1.2 \mathrm{~W}$ (at $10 \%$ harmonic distortion)
Power requirements:
$120 \mathrm{VAC}, 60 \mathrm{~Hz}$
Dimensions:
Approx. $365 \times 106 \times 281 \mathrm{~mm}(\mathrm{w} / \mathrm{h} / \mathrm{d})$
(Approx. $14 / 8 \times 41 / 4 \times 11 / \mathrm{sinches)}$ incl. projecting parts and controls
Mass:
Approx. $2.9 \mathrm{~kg}(6 \mathrm{lb} 6 \mathrm{oz})$
Supplied
Supplied accessories:
Mounting screws (4), Template (1).
Spacers (4) Cord
Design and specifications are subject to change
without notice.

## IMPORTANT SAFEGUARDS

## Carefully observe all warnings, precautions and instructions on the appl. Le and in the operating

## INSTALLATION

Water and Moisture
Do not use powerline operated appliances near water-for example, near a bath Heat Heat
Do no pl
sunight. Ventilation
The slots and openings in the cabinet are provided for necessary ventilation. To ensure reliable
operation of the applance
operation of the appliance, and to protect it from overheating, these slots and openings must never be
blocked or overed
Never onver
Never over the stots 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 b
ever place the applianc

Accessories
Do not place the
Do not place the appliance on an unstable cart, stand, tripod, bracket, or table. The appliance may fall,
causing serious stand, triporo, bracket, or a tabild recon an adultended by sonious damage to the appliance. Use only a cart,
-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 overturl.
Wall or Ceiling Mounting

## 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 If you are not sure of the type of electrical power supplied to your home, consult your dealer or iocal
power company. For those appliances designed to operate from battery power, or other sources, refer
to the operating instructions. Grounding or Polarization
Grounding or Polarization
This appliance is equiped with a polarized AC power cord plug (a plug having one blade wider than
the other) or with atrre-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:
 your electrician to h
For the appliance with a three-wire grounding type AC plug:
This plug will only fiti into o grounding-type power outlet. This is is aretery feature. Ify you are unable to
insertep plug intot heo outit. contact tour electrician to have a suitable outlet installed. Do not defeat
the safety purpose of the grounding plug. Overloading
Do not overioad
Overloading
Do noto verload wall outlets, extension cords or convenience receptacles beyond their capacity, since
this can result in fire or electric shock. When not in use
When not in use
Unpurg the powercord 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.-ord Protection
Route the power cord so that it in tikely to be walked on or pinched by items placed upon or
against them. paying particcular attention to the plugs, receptacles, and the point where the cord exits against them, paying
from the appliance. Lightning
For added protection for this appliance during a lightning storm, or when it is left unatended and
unused for Iong periods of time, unplugg it from the wall suttet and discomnece the antenna or cable
system. This will prevent damage to the appliance due to lightoing system. This will prevent damag
Object and Liquid Entry
Object and Liquid Entry
Never pushobjects of any kind into the appliance through openings as they may touch dangerous
voitage points or short out parts that could result in a fire or electric shock. Never spill liquid of any voltage points or short
Kind on the appliance.
Cleaning
Unpluy the
 Clean the appliance
Attachments

## ANTENNAS

Outdoor Antenna Grounding
If an outdoor antenna or cable system is
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 or
 IS RLMOST INVARIAACEY FATAL.
Be sure the antenna system is grounded so as to provide some protection against voitage surges and
built-up static charges. section 810 of the National Electrical Code provides information with respect o proper groundidg of the mast and supportung structure, ground got the lead-in wire to an
antenna discharge unit, size of grounding cond

Antenna Grounding According to the National Electrical Code
 Antenna Discharge Unit
(NEC Section 810-20) Grounding Conductors
(NEC Section 810-20)


## SERVICE

Power Servicic Grounding Electrode System
(NEC Art 250 Part H)
Damage Requiring Service

If liquid has been spilled or objects have fallenyed. into the appliance.
If the appliance has been exposed to rain or water
The appliance has been exposed to rain) or water.
-This op indicate does not appear to operate normally or exhibits a marked change in performance.
Thed for service.

- If the appliance does not operate normaly when forlowing the operating instructions, adjust only
those controns that are specified in the poperating instructions. Improper adjustment of other controls
ter
 If the appli
damaged.
Servicing
Servicing
Do not attem
dangerous voltage or other hazards.
Refer all servicing Replacement parts
When replacement parts are required, be sure the service technician has used replacement parts
speafied by 5 ,
that have the same characteristics as the original parts.

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


Installing the Unit Under a Cabinet

## (See Fig. A)

The unit can be installed without the spacer.
1 Mark the position of the 4 holes by using the supplied template. Use a drill to inch). (See Fig. (A-(a)
2 When the cabinet door overhangs the 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 ( $\mathrm{H} \bullet \bullet \mathrm{L}$ ) by turning the spacer counterclockwise. (See Fig. A-(b)
mounting screws. (See Fig
Caution
Since the unit is very heavy, be careful when
installing the unit. installing the unit.
To reduce the risk o
heating or cookis fire, do not place any Install the unit so that its $A C$ beneath this unit be connected directly to a wail outlet. Do not use a converter or extension cord. Be sure that the $A C$ 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 slack.
The unit has a bult-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 Install the unit as far as possibile from a source
of noise. (for example, refrigerator, microwave of noise. (for example, refrige.

## Setting the Clock

1 Plug in the clock radio.
the display win hash "AM 12:00
2 Press CLOCK for a few seconds. You will hear a beep and the hour will star
to flash in the display.

## 110810

3 Press tuNE/TRACKIIME SET + or ntin the correct hour appears in the display.
4 Press clock once
The minute will flash.

## am Bolyb

5 Repeat steps $\mathbf{3}$ and $\mathbf{4}$ 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 carrent time rapidly, hold down
TUNE/TRACK/TIME SET + or TUNE/TRACK/TIME SET + or--
The clock system varies depending on the medel you own.
12-hour system: "AM $12: 000^{\prime \prime}=$ midnight In step 5 , when you press CLOCK after the
minute setting to activate the clock, the seco minute setting to activate the clock, the seconds
start counting from zero.
To change the display to the daylight saving time (summer time) indication
ress D.S.T./SUMMERT

To deactivate the summer
D.S.T./SUMMER T. again.


2 Press $\boldsymbol{\triangle}$ OPEN/CLOSE to close the disc

| 3 |
| :--- |
| Press $\mathbf{C D}$ PII. |
| The player plays all the tracks once. |

$\mathbf{4}$ Adjust volume using VOLUME.

Note
If you press CD $>$ " when there is no disc in the seconds on the display and the unit turns off

Various Modes of CD

## Playback

You can play tracks repeatedly or in random
Press CD PLAY MODE
Each press changes the play mode as
follows: follows:
$\begin{array}{ll}\text { Display } & \text { Play } \\ \text { indication } & \text { mod }\end{array}$
none (normal play)
"REP 1" ${ }^{\text {T }}$ (single repea
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 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
2 the current time. select the desired band. Each press changes the band as follows:

$$
\mathrm{AM} \rightarrow \mathrm{FM}^{\star} \rightarrow \mathrm{FM}^{*}
$$

When using FM1 or FM2 preset mode, you may listen to the radio on either mode

3 Use TUNE/TRACK/TIME SET + or 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 whenz. Two short beeps sound when the
minimum frequency of each band is minimum frequency of e
4 Adjust volume using VOLUME

- To turn off the radio, press OFF

FM: Extend the AC power cord fully to
AM: When installing the unit,
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 is built into the unit.

- To check the station being received, press
RADIO ON. BAND lightly. The display show the band and frequency for a few seconds and the band and frequency for a few secon


## Preset Tuning

You can preset 10 stations in FM ( 5 stations in
$\mathrm{FM} 1,5$ stations in FM ) and 5 stations in AM.
Presetting a Station
Example: To preset FM 90 MHz onto preset
button 2 for FM 2 .
1 Press RADIO ON-BAND to turn on the 2 radio.
2 Press RADIO ON•BAND to select FM2.
Tune in to the station on FM90 MHz
(See "Manual Tuning")
4 Hold down the PRESEI TUNING
button $\mathbf{2}$ until you hear two short beeps.
$91011 p_{2}$
The display shows the frequency for a few
seconds and then changes back to the current second
time.
To change a preset station
Tune in manualy to the station you want to store
and hold down the PRESET TUNING buttons(1.5) and hold down the PRESET TUNING buttons(1.5)
until you hear two short beeps. The previously untry you hear two short beeps. he previously
stored station will be replaced by the new one.

Tuning in to a preset station Press RADIO ON-BAND to to
radio.
Press RADIO ON•BAND to select the
band.
3 Press the PRESET TUNING button
4 Adjust the volume using VOLUME. After a few seconds, the display returns to the current time but the preset button Note
When the PRESET TUNING buttons(1.5) are
pressed lightly, the radio station that is prese pressed lightly, the radio station that is preset
will be selected. When they are pressed for a while, the station that is on will be newly preset.

## Useful Functions

To Obtain Powerful Bass
witch MEGA BASS to ON.
The "MEGA BASS" system produces a powerful

## Setting the Alarm

Before setting the alarm, make
clock (see "Setting the Clock").

## To Set the Alarm Time

1 Turn off the radio.
2 Press ALARM for a few seconds. Press ALARM for a few seconds.
You will hear a beep and the hour will start
to flast in the display
3 to flash in the display.
until the desired time appears in the display.
4 Press ALARM once.
5 Repeat steps $\mathbf{3}$ and $\mathbf{4}$ to set the minute. Two short beeps will confirm the setting, and the display will show the current time.
When TUNE/TRACK/TIME SET + or - is held down, the displayed time initially changes in one-minute steps, and after about a second,

## To Check the Alarm

Time
Press ALARM
hecondsplay shows the alarm time for a few time.

## ALARM ON -

To Set the Alarm Mode
Press ALARM ON/OFF to set the alarm.
" $\|\Delta\|$ " will appear in the display.
"(1Dy)" fiashes in the display preset time,
ALARM OFF -
The alarm is turned off automatically after 59 minutes.

## To Stop the Alarm

Press OFF•ALARM RESET to turn off the
alarm.
he next day

## To Cancel the Alarm

Press ALARM ON/OFF.
(IQ\|) will disappear from the display
automatically

