aiwa

COMPACT DISC STEREO RADIO CASSETTE RECORDER
RADIOCASETE ESTÉREO CON REPRODUCTOR DE DISCOS COMPACTOS
RADIO-CASSETTE LECTEUR DE CD STEREO

CSD-FD91
CSD-FD81
CSD-FD71

| OPERATING INSTRUCTIONS | En |
| See page 2. | (English) |

| MANUAL DE INSTRUCCIONES | E |
| Ver la página 10. | (Español) |

| MODE D'EMPLOI | F |
| Voir page 18. | (Français) |

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COMPACT disc DIGITAL AUDIO

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

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⚡    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."
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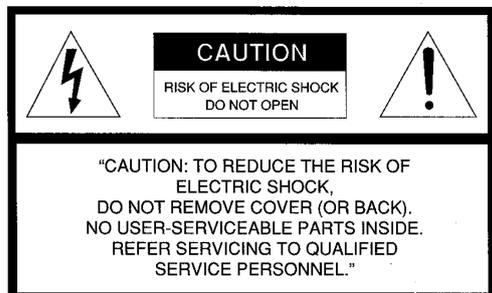
Explanation of Graphical Symbols:

⚡ The lightning flash with arrowhead symbol, within an equilateral triangle, 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.

! The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

OWNER'S RECORD

For your convenience, record the model number (you will find it at the bottom of the unit) and serial number (you will find it in the battery compartment) in the space provided below. Please refer to them when you contact your AIWA dealer in case of difficulty.

Model No. [   ]   Serial No. [   ]

Precautions

Read the Operating Instructions carefully and completely before operating the unit. Be sure to keep the Operating Instructions for future reference. All warnings and cautions in the Operating Instructions and on the unit should be strictly followed, as well as the safety suggestions below.

Installation

1 **Water and moisture** - Do not use this unit near water, such as near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, swimming pool, or the like.
2 **Heat** - Do not use this unit near sources of heat, including heating vents, stoves, or other appliances that generate heat.
   It also should not be placed in temperatures less than 5°C (41°F) or greater than 35°C (95°F).
3 **Mounting surface** - Place the unit on a flat, even surface.
4 **Ventilation** - The unit should be situated with adequate space around it so that proper heat ventilation is assured. Allow 10 cm (4 in.) clearance from the rear and the top of the unit and 5 cm (2 in.) from each side.
   - Do not place the unit on a bed, rug, or similar surface that may block the ventilation openings.
   - Do not install the unit in a bookcase, cabinet, or airtight rack where ventilation may be impeded.

2 ENGLISH

5 **Objects and liquid entry** - Take care that objects or liquids do not get inside the unit through the ventilation openings.
6 **Carts and stands** - When placed or mounted on a stand or cart, the unit should be moved with care.
   Quick stops, excessive force, and uneven surfaces may cause the unit or cart to overturn or fall.
7 **Condensation** - Moisture may form on the CD pickup lens when:
   - The unit is moved from a cold spot to a warm spot
   - The heating system has just been turned on
   - The unit is used in a very humid room
   - The unit is cooled by an air conditioner
   When this unit has condensation inside, it may not function normally. Should this occur, leave the unit for a few hours, then try to operate again.
8 **Wall or ceiling mounting** - The unit should not be mounted on a wall or ceiling, unless specified in the Operating Instructions.

Electric Power

1 **Power sources** - Use on batteries or AC house current, as specified in the Operating Instructions and marked on the unit.
2 **Polarization** - As a safety feature, some units are equipped with polarized AC power plugs which can only be inserted one way into a power outlet. If it is difficult or impossible to insert the AC power plug into an outlet, turn the plug over and try again. If it still does not easily insert into the outlet, please call a qualified service technician to service or replace the outlet. To avoid defeating the safety feature of the polarized plug, do not force it into a power outlet.
3 **AC power cord**
   - When disconnecting the AC power cord, pull it out by the AC power plug. Do not pull the cord itself.
   - Never handle the AC power plug with wet hands, as this could result in fire or shock.
   - Power cords should be firmly secured to avoid being bent, pinched, or walked upon. Pay particular attention to the cord from the unit to the power socket.
   - Avoid overloading AC outlets and extension cords beyond their capacity, as this could result in fire or shock.
4 **Extension cord** - To help prevent electric shock, do not use a polarized AC power plug with an extension cord, receptacle, or other outlet unless the polarized plug can be completely inserted to prevent exposure of the blades of the plug.
5 **When not in use** - Unplug the AC power cord from the AC outlet or remove all the batteries if the unit will not be used for several months or more. When the cord is plugged in, a small amount of current continues to flow to the unit, even when the power is turned off.

Maintenance

Clean the unit only as recommended in the Operating Instructions.

Damage Requiring Service

Have the units serviced by a qualified service technician if:
- The AC power cord or plug has been damaged
- Foreign objects or liquid have got inside the unit
- The unit has been exposed to rain or water
- The unit does not seem to operate normally
- The unit exhibits a marked change in performance
- The unit has been dropped, or the cabinet has been damaged
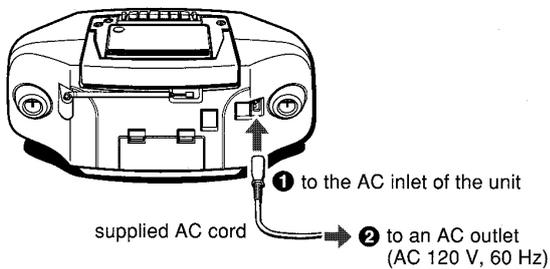
DO NOT ATTEMPT TO SERVICE THE UNIT YOURSELF.

Power Supply

OPE/BATT/DIR,
OPE/BATT
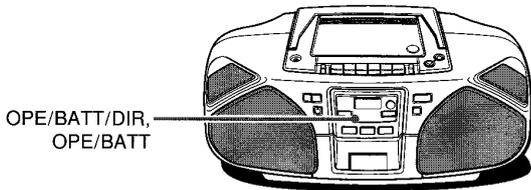
The OPE/BATT/DIR or OPE/BATT indicator lights up while the power is on.

Using on AC House Current

Connect the AC cord as illustrated below.

❶ to the AC inlet of the unit

supplied AC cord ➡ ❷ to an AC outlet (AC 120 V, 60 Hz)

CAUTION
Use only the supplied AC cord. Use with other cords may result in the risk of fire.

Using on Batteries

Open the lid of the battery compartment on the rear and insert eight R14 (size C) batteries, not supplied, with the ⊕ and ⊖ marks correctly aligned. Then close the lid.
To switch from AC power supply to battery power supply, disconnect the AC cord from the AC inlet.

R14 (C)
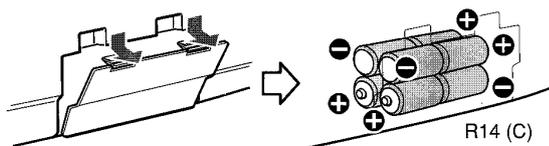
When to replace the batteries
The OPE/BATT/DIR or OPE/BATT indicator becomes dim, the tape speed slows down, volume decreases, or sound is distorted during operation.

Notes on batteries
• Do not mix different types of batteries or old batteries with new ones.
• When the unit is not to be used for a long period, remove the batteries to prevent needless battery wear.
• Never recharge the batteries, apply heat to them or take them apart.
• Remove dead batteries.
If liquid leaks from the batteries, wipe thoroughly to remove.

Remote Control
(except for CSD-FD71)

Insert two R6 (size AA) batteries.

R6 (AA)
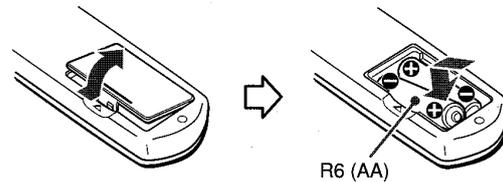
When the reach of the remote control signal is less than 5 meters (16 feet), replace the batteries.

The remote control may not operate correctly when:
- The unit is exposed to intense light, such as direct sunlight
- Objects block the remote control signal to the unit

To use the buttons on the remote control
Buttons on the remote control and the main unit with identical indications have the same functions.

To turn the power on
Press POWER to turn on the display.
When using the unit on the batteries, this button will not turn the power on.

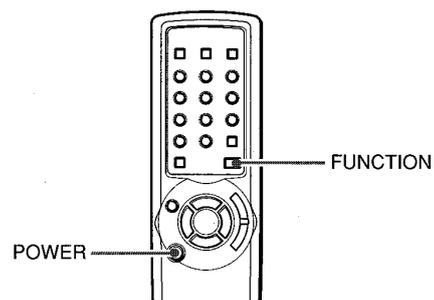**To turn the power off**
Press POWER to turn off the display.
When one of the deck operation buttons is pressed, this button will not turn the power off.

To use the FUNCTION button
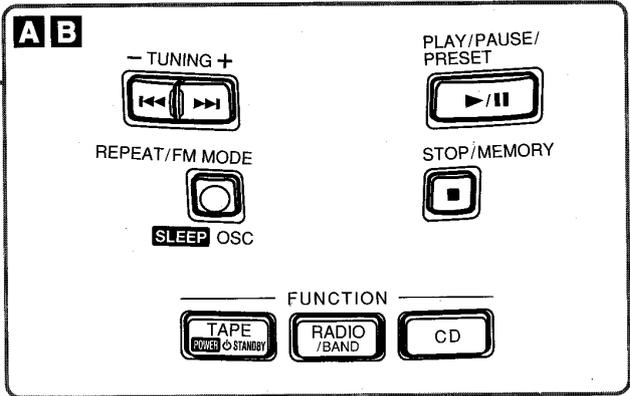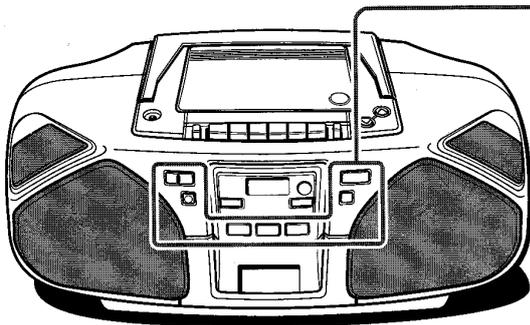Each time FUNCTION is pressed while the power is on, the function is selected cyclically.

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┌─→ CD ─→ RADIO ─→ *TAPE ─┐
└──────────────────────────┘
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* applicable when one of the deck operation buttons is pressed

FUNCTION

POWER

Unless otherwise noted, the illustrations in the Operating Instructions show the CSD-FD91.

A TUNER OPERATION

1 Press *RADIO/BAND repeatedly to select the desired band.

$$\longrightarrow FM \longrightarrow AM \longrightarrow$$

The power is turned on and the previously tuned station is received.
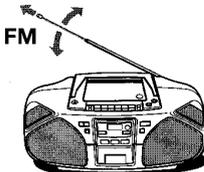The RADIO indicator lights up.
* or BAND on the remote control (except for CSD-FD71) when the AC cord is connected
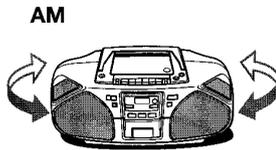
2 Press I◀◀, ▶▶I (TUNING −, +) to select a station.
During FM stereo reception, STEREO is displayed.

After listening, press TAPE/POWER ⏻ STANDBY to turn the power off.

For better reception

FM

AM

Extend the rod antenna and orient it for the best reception.

The antenna is inside the unit. Position the unit for the best reception.

For quick tuning
Keep I◀◀, ▶▶I pressed until the tuner starts searching for a station. When a station is tuned to, the search stops.
If the broadcast signal is weak, it does not stop. To stop the search manually, press I◀◀ or ▶▶I.

*REPEAT/FM MODE/OSC
- If an FM stereo broadcast contains noise, press the button so that MONO is displayed.
  Noise is reduced, although reception is monaural.
  To restore stereo reception, press the button again.
- If a high-pitched sound is heard during AM recording, press the button repeatedly until the noise is reduced.
  Its position can be checked by "•" being on or off the display.
* or MODE on the remote control (except for CSD-FD71)

To change the AM tuning interval
The default setting of the AM tuning interval is 10 kHz/step.
If you use this unit in an area where the frequency allocation system is 9 kHz/step, change the interval as follows.

1 Press RADIO/BAND to display FM.
2 Press ■ while pressing RADIO/BAND to display the AM frequency.
When the AM tuning interval is changed, the preset stations are cleared.

NOTE
If the unit picks up noise from other electrical appliances nearby, like a TV or fluorescent lights, move the unit away.

PRESETTING STATIONS

You can preset up to 15 stations in each band.

1 Select a station.

2 Press *■ STOP/MEMORY once so that "M" is displayed to store the station.
A station is assigned a preset number, beginning from 1 in consecutive order for each band.

Preset number

Frequency
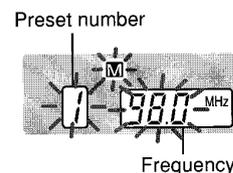
* or ■ on the remote control (except for CSD-FD71)

3 Repeat steps 1 and 2.
The next station will not be stored if a total of 15 preset stations have already been stored for a band.

To listen to preset stations
Select a band then press ▶/II PLAY/PAUSE/PRESET repeatedly.
▶ PLAY on the remote control (except for CSD-FD71) is also available.

To select a preset number directly with the remote control (except for CSD-FD71)
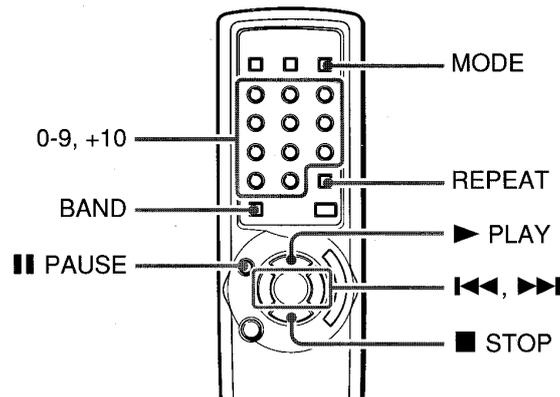Press the numbered buttons 0-9 and +10.
Example:
To select number 15, press +10 and 5.
To select number 10, press +10 and 0.

To clear a preset station
Select the preset number first. Within 4 seconds, keep ■ pressed until "M" and the preset number disappear in the display.
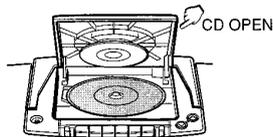The higher numbers in the band are decreased by one.

MODE

0-9, +10

BAND

II PAUSE

REPEAT

► PLAY

I◄◄, ►►I

■ STOP

(except for CSD-FD71)

B CD OPERATION

1 Press CD.
The power is turned on and the CD indicator lights up.

2 Press CD OPEN to open the disc compartment. Place a disc with the printed side up and close the disc compartment.

CD OPEN

Total number of tracks and total playing time are displayed. It will take about 15 seconds when loading a CD-RW disc.

3 Press *►/II PLAY/PAUSE/PRESET to start play.
The number of the track being played and elapsed playing time are displayed.
* or ► PLAY on the remote control (except for CSD-FD71)

■ STOP/MEMORY – Stops play.
*►/II PLAY/PAUSE/PRESET – Pauses play. To resume play, press again.
* or II PAUSE on the remote control (except for CSD-FD71)
I◄◄, ►►I – Searches for a particular point during playback. Keep I◄◄ or ►►I pressed and then release it.
– Skips to the beginning of a track. Press I◄◄ or ►►I repeatedly.
*REPEAT/FM MODE/OSC – Repeats a single track or all tracks. Select as follows.
⊂ 1: A single track is played repeatedly. Select a track with I◄◄ or ►►I.
⊂ : All tracks are played repeatedly.
* or REPEAT on the remote control (except for CSD-FD71)

To start play when the power is off, press CD. The power is turned on and play of the loaded disc begins (Direct Play Function).
If you load a disc while the CD indicator flashes in step 2, play starts without pressing ►/II.

To select a track directly with the remote control (except for CSD-FD71), press the numbered buttons 0-9 and +10. CD play starts from the selected track and continues to the last track.
Example:
To select number 25, press +10, +10 and 5.
To select number 10, press +10 and 0.

After listening, press TAPE/POWER ⏻ STANDBY to turn the power off.

NOTE
• The unit may not play a CD-R/RW disc that is recorded on personal computers or some kinds of CD-R/RW recorders because of differences in recording platforms.
• Do not attach any seal or label to either side (the recordable side or the labeled side) of a CD-R/RW disc. It may cause malfunction.
• Do not use irregular shape CDs (example: heart-shaped, octagonal ones).
It may result in malfunctions.
• Do not place more than one disc in the disc compartment.
• Do not try to open the disc compartment during play.
• Do not touch the lens. Doing so may cause malfunctions.

En

PROGRAMMED PLAY

Up to 30 tracks can be programmed from the disc.

1 In stop mode, keep *■ STOP/MEMORY pressed until "M" flashes in the display.
* or ■ on the remote control (except for CSD-FD71)

2 Press I◄◄, ►►I to select a track, then press ■ STOP/MEMORY to store it.

Track number

P-01

Programmed number
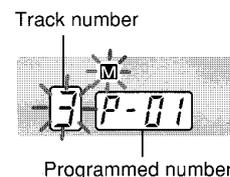
To select a track with the remote control (except for CSD-FD71)
Press the numbered buttons 0-9 and +10.

3 Repeat step 2 to program other tracks.
To return to stop mode in steps 1 to 3, keep ■ pressed.

4 Press ►/II to start play.

To check the program, press I◄◄ or ►►I in stop mode.
To clear the program, press ■ once in stop mode so that "M" disappears in the display.
To change the programmed tracks, clear the program and repeat all the steps again.

OPE/BATT/DIR

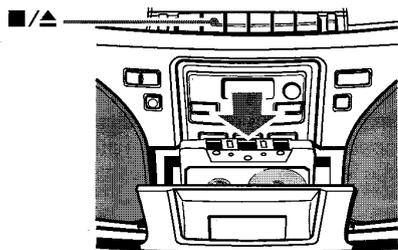TAPE/POWER ⏻ STANDBY
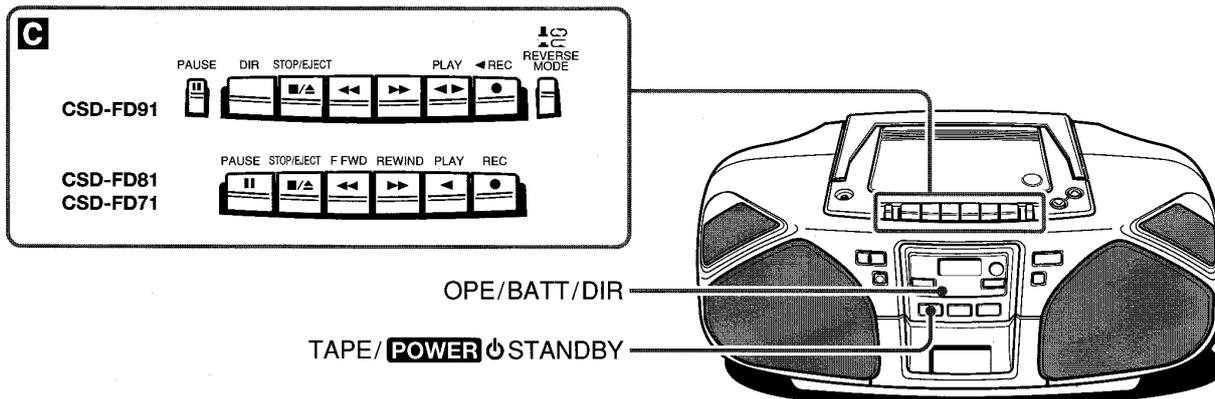
C TAPE OPERATION

Use Type I (normal) tapes only.
CSD-FD91 plays the both sides of the tape.
CSD-FD71/CSD-FD81 plays the side facing out.

INSERTING A TAPE

Press ■/▲ STOP/EJECT to open the cassette holder and insert a tape with the exposed side up.

Push the cassette holder to close.

PLAYING A TAPE

Press ◄► PLAY or ◄ PLAY while the power is off.
The power is turned on and play of the inserted tape begins.
The volume level is displayed during tape operation.

CSD-FD91
■/▲ STOP/EJECT – Stops play. The power will be automatically turned off.
II PAUSE – Pauses play. To resume play, press again.
◄◄/►► – Fast forwards/rewinds. To stop the winding, press ■/▲.
When the end of a tape is reached, press ■/▲ to release ◄◄, ►►.
The OPE/BATT/DIR indicator – Indicates the playback side.
   ◁: The side facing out (front side) is played.
   ▷: The back side is played.
REVERSE MODE – Selects reverse mode.
   ▬ ⊂ (pressed): Plays both sides of the tape once. Play stops at the end of the reverse side.
   ⊥ ⊃ (released): Plays both sides repeatedly.
DIR – Changes play side.

CSD-FD81/CSD-FD71
■/▲ STOP/EJECT – Stops play. The power will be automatically turned off.
II PAUSE – Pauses play. To resume play, press again.
◄◄ F FWD/►► REWIND – Fast forwards/rewinds. To stop winding, press ■/▲.

RECORDING

Note that recording is done on only one side of the tape.

1 Insert a tape with the side to be recorded facing out.

2 Get ready to record from the source.
To record from a CD, press CD and load the disc.
To record from a radio broadcast, press RADIO/BAND and tune to a station.

NOTE (CSD-FD91 only)
Make sure that ◁ of the OPE/BATT/DIR indicator is on. If it is not on, press DIR to turn it on.

3 Press ● REC to start recording.
◄► PLAY or ◄ PLAY is pressed simultaneously.
When the selected function is CD, CD play and recording starts simultaneously.
For CSD-FD91, REVERSE MODE is also pressed simultaneously. At the end of the tape, it reverses to the back side although recording stops (the deck enters play mode).
Press ■/▲ STOP/EJECT to stop the tape and press ■ STOP/MEMORY to stop CD play.

To record only the selected tracks of a CD
1 Follow steps 1 to 3 of PROGRAMMED PLAY on page 5 to program tracks.
2 Press ● REC.

To stop recording, press ■/▲ STOP/EJECT.
When recording from a CD, play pauses. To stop CD play, press ■ STOP/MEMORY.
To pause recording, press ❚❚ PAUSE. To resume recording, press again.
To erase recording, press ● REC while the power is off.

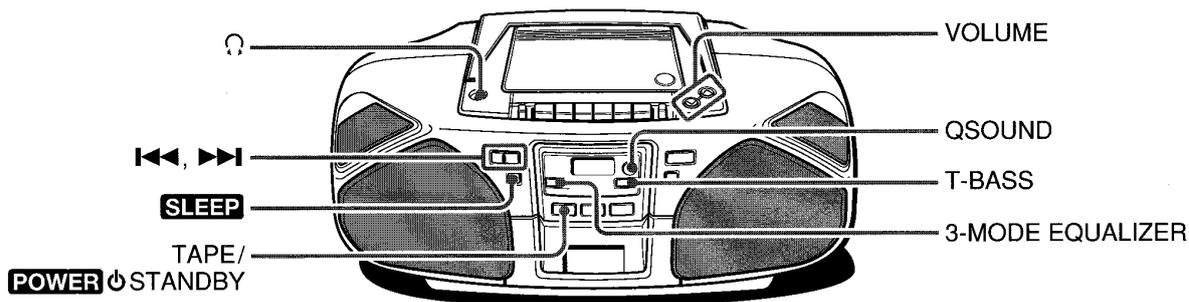**After recording,** press TAPE/POWER ♦ STANDBY to turn the power off.

To prevent accidental erasure
Break off the plastic tabs on the cassette tape with a screwdriver or other pointed tool after recording.

To record on the tape again
Cover the tab openings with adhesive tape, etc.

Side A
Tab for side A

- Ω — (headphone jack, top left)
- VOLUME — (top right)
- ◄◄, ►►◄
- QSOUND
- SLEEP
- T-BASS
- TAPE/
- 3-MODE EQUALIZER
- POWER ⏻ STANDBY

GENERAL

SOUND ADJUSTMENT

VOLUME
Press VOLUME ∧ or ∨. The volume level is displayed as a number from 0 to MAX (25).
- The volume level is automatically set to 14 if the power is turned off when the volume level is set to 15 or more. (except when turning the power back on within 4 seconds)

To display the volume level when a function other than TAPE function is selected
Press VOLUME ∧ or ∨. The volume level is displayed for 4 seconds.
DISPLAY on the remote control (except for CSD-FD71) is also available.

3-MODE EQUALIZER
Press * 3-MODE EQUALIZER until one of the indicators lights up.
The equalizer mode changes to ROCK, POP, JAZZ or no equalization, cyclically.
ROCK - Emphasizes the high and low range of music.
POP - Emphasizes voice and midrange of music.
JAZZ - Emphasizes the low range of music.
* or EQ on the remote control (except for CSD-FD71)

T-BASS system
The T-BASS system enhances the realism of low-frequency sound.
Press T-BASS and the T-BASS indicator lights up.

QSOUND system
This system provides a rich, three dimensional sound area for stereo sources.
You can enjoy more enhanced sound.
Press QSOUND and the QSOUND indicator lights up.
- At higher volumes, turning QSOUND on may cause sound distortion. In this case, make the volume down.

To listen with the headphones
Connect headphones with a stereo mini plug to the Ω jack.
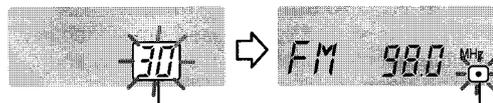
8 ENGLISH

SETTING THE SLEEP TIMER

The unit can be turned off automatically at a specified time.

1 Keep SLEEP pressed until "10" flashes in the display.
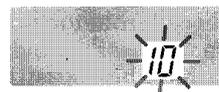
2 Within 4 seconds, press ◄◄ or ►►◄ to specify the time until the power is turned off.
Each time it is pressed, the time changes between 10 and 90 minutes in 10-minute steps.

Specified time   While the sleep timer works, the dot keeps flashing.

To check the time remaining until the power is turned off
Repeat step 1 shown above. The remaining time is displayed for 4 seconds.

To cancel the sleep timer
Display the remaining time and press ◄◄ or ►►◄ repeatedly until OFF is displayed.

NOTE
If the unit is turned off during tape playback, ◄► or ◄ on the deck will not be released. Press ■/▲ to release ◄► or ◄.

If an erroneous display or malfunction occurs
Make sure that none of the deck operation buttons is pressed.
Press ■ while pressing TAPE/POWER ⏻ STANDBY.
If the unit cannot be reset in the way above, disconnect the AC cord and remove all the batteries to turn off the display. Leave the unit for a while and turn the power back on.

Specifications

Tuner section
Frequency range, antenna — FM: 87.5 - 108.0 MHz Rod antenna, AM: 530/531 - 1,710/1,602 kHz (10/9 kHz/step) Ferrite bar antenna

Deck section
Track format — 4 tracks, 2 channels / Frequency range — Normal tape: 50 - 12,500 Hz (EIAJ) / Recording system — AC bias / Erasing system — Magnet erase / Heads — Recording/playback head (1), Erasure head (1)

CD player section
Disc — Compact disc / Scanning method — Non-contact optical scanner (semiconductor laser)

General
Speaker — 100 mm cone type (2), 36 mm cone type (2) / Output — Headphones jack (stereo mini-jack) / Power output — 2.5 W + 2.5 W (EIAJ 7 ohms DC) / Power requirements — DC 12 V using eight size C (R14) batteries, AC 120 V, 60 Hz / Power consumption — 12 W
Dimensions (W × H × D) — 460 × 191.9 × 261.2 mm (18^1/8 × 7^5/8 × 10^3/8 in.)
Weight (excluding batteries) — 4 kg (8 lbs. 13 oz.)
Accessories — Remote control (1, except for CSD-FD71), AC cord (1)

• Specifications and external appearance are subject to change without notice.

COPYRIGHT
Please check the copyright laws relating to recordings from disc, radio or external tape for the country in which the machine is being used.

Maintenance

To clean the cabinet
Use a soft cloth lightly moistened with mild detergent solution. Do not use strong solvents such as alcohol, benzine or thinner.

To clean the heads
When the tape heads are dirty;
- high frequency sound is not emitted
- the sound is not adequately high
- the sound is off-balance
- the tape cannot be erased
- the tape cannot be recorded on
After every 10 hours of use, clean the tape heads with a head cleaning cassette.
Use separately sold dry-type or wet-type cleaning cassette.
Refer to the instructions of the cleaning cassette for details.

To clean the lens
Use a cotton swab slightly moistened with cleaning fluid. Wipe gently from the center to the edge.

Lens
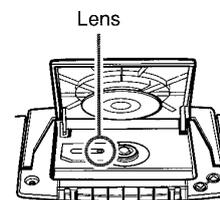
NOTE

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.

CAUTION

Modifications or adjustments to this product, which are not expressly approved by the manufacturer, may void the user's right or authority to operate this product.