SONY

3-234-489-**23** (1)

Portable CD Player

Operating Instructions

About the area code

The area code of the location in which you purchased the CD player
is shown on upper left of the bar code label on the package.
For accessories supplied with your CD player, check the area code
of your model and see "Accessories (supplied/optional)."

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D-EJ855

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WARNING

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

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

To prevent fire, do not cover the ventilation of the apparatus with newspapers, table-cloths, curtains, etc. And don't place lighted candles on the apparatus.

To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.

CAUTION

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

Certain countries may regulate disposal of the battery used to power this product. Please consult with your local authority.

For the customers in the USA and Canada

RECYCLING NICKEL CADMIUM BATTERIES

Nickel Cadmium batteries are recyclable.
You can help preserve our environment by returning your used rechargeable batteries to the collection and recycling location nearest you.
Note: In some areas the disposal of Nickel Cadmium batteries in household or business trash may be prohibited.

For more information regarding recycling of rechargeable batteries, call toll free 1-800-822-8837, or visit **http://www.rbrc.org/**.

Caution: Do not handle damaged or leaking Nickel Cadmium batteries.

For the customers in Australia

The supply cord of the AC power adaptor cannot be replaced; if the cord is damaged, the AC power adaptor should be discarded.

The CE mark is valid only for products marketed in the European Union.

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Getting started

Locating the controls

For details, see pages in parentheses.

CD player (front)

1 EXT BATT (external battery)/ DC IN 4.5 V (external power input) jack (pages 7, 19, 21)

2 LINE OUT (OPTICAL) jack (page 17)

3 VOL (volume) +*/– buttons (page 8)

4 ■ (stop) /CHARGE button• CHARGE lamp (pages 8, 15, 16, 19)

5 I◄◄ (AMS/search)•►►I ►* (AMS/search/play) buttons (pages 7, 8, 12)

6 ∩ (headphones) jack (page 7)

7 OPEN switch (page 7)

CD player (inside)

8 AVLS switch (page 15)

9 G-PROTECTION switch (page 13)

10 Battery compartment (page 19)

CD player (rear)

11 HOLD switch (page 15)
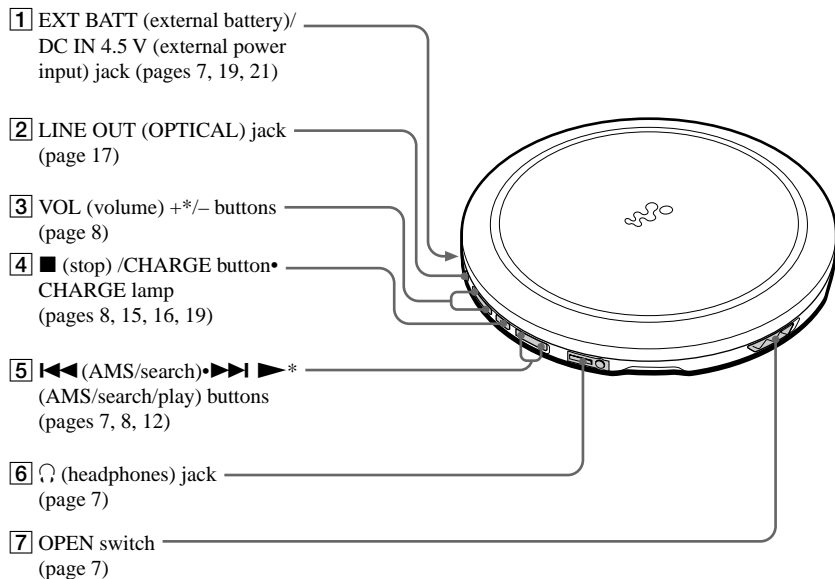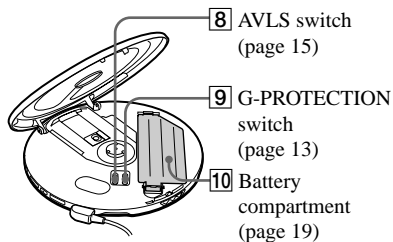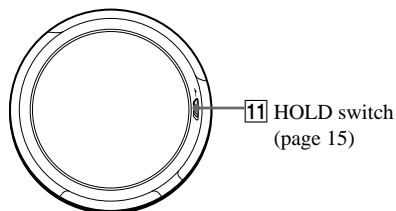
*The button has a tactile dot to help you operate the CD player by touch.

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Remote control

⏫ Display
(pages 9, 11 - 15)

⏬ ■ (stop) button
(pages 8, 16)

⏬ Rotary control
▶/▶▶I: play, AMS/search (pages 8, 12)
I◀◀ : AMS/search (pages 8, 12)
VOL +/–: Pull the control in the direction of the
arrow, and then turn it toward + or –. (page 8)

⏫ Clip

⏬ HOLD switch
(page 15)

⏬ DISPLAY
button
(pages 13, 14)

⏬ Headphone jack
(page 7)

⏬ PLAY MODE
button
(pages 10 - 12)

⏬ II (pause) button
(page 8)

⏬ RPT (repeat)/ENT
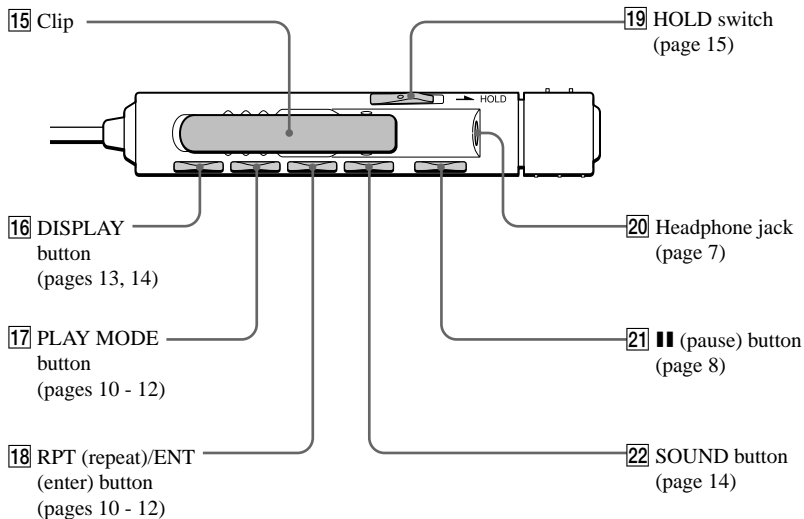(enter) button
(pages 10 - 12)

⏬ SOUND button
(page 14)
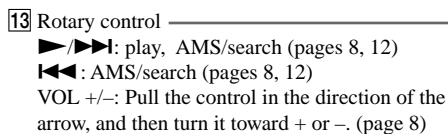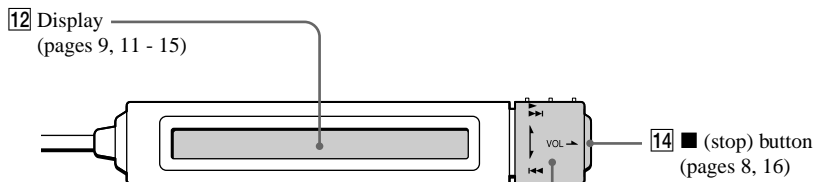
Note

Use only the supplied remote control. You cannot
operate this CD player with the remote control
supplied with other CD players.

5

Using the carrying pouch (only for the models supplied with the carrying pouch)

You can carry your player and its battery case together using the supplied carrying pouch. Insert them into the proper places in the pouch as illustrated below.

Playing a CD

You can also use rechargeable batteries and dry batteries as a power source.
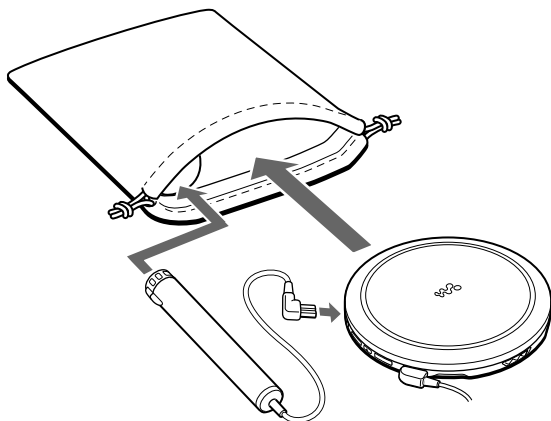
1. Connect your CD player.

❶ Connect the AC power adaptor.

❷ Connect the headphones/earphones with remote control.

For models supplied with the AC plug adaptor

If the AC power adaptor does not fit the AC outlet, use the AC plug adaptor.

For models supplied with the remote control

• Connect the plug of the headphones/earphones to the remote control.

• Connect the headphones/earphones to the remote control firmly. A loose connection may cause noise during playback.

to EXT BATT/DC IN 4.5V

to an AC outlet

AC power adaptor

▶▶I ▶
button

to ⌂ (headphones)

Headphones
or
Earphones
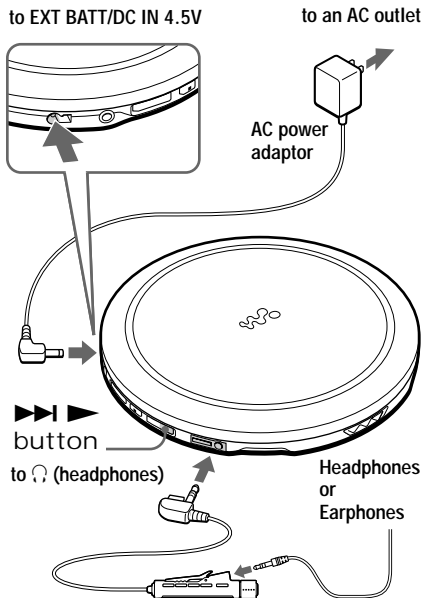
2. Insert a CD.

❶ Slide OPEN to open the CD player lid.

OPEN switch

❷ Place the CD on the tray and close the lid.

Label side up

(Continued)

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3. Play a CD.

VOL + / –

VOL+
VOL–

▶▶I ▶

▶/▶▶I
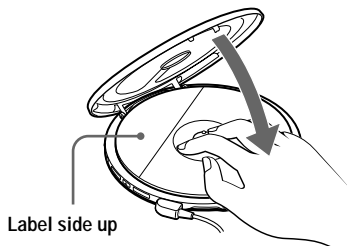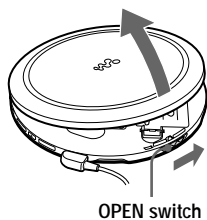
1 Press ▶▶I ▶.

2 Adjust the volume by pressing VOL + or –.
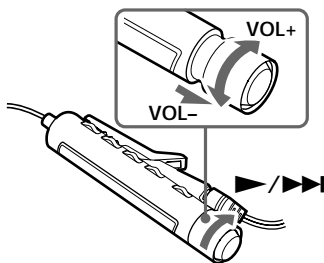
1 Turn the rotary control toward ▶/▶▶I.

2 Pull the rotary control in the direction of the arrow.

3 Adjust the volume by turning the rotary control toward VOL + or –.

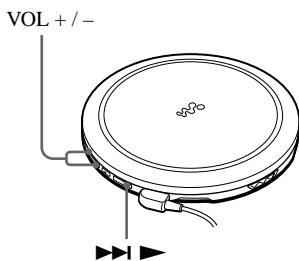| To	Do this on the remote control
Play (from the point you stopped)	Turn the rotary control toward ▶/▶▶I (press ▶▶I ▶ for the CD player). Playback starts from the point you stopped.
Play (from the first track)	Turn the rotary control toward ▶/▶▶I and hold it until the play of the first track starts (press ▶▶I ▶ for 2 seconds or more for the CD player).
Pause/resume play after pause	Press II.
Stop	Press ■ (■/CHARGE for the CD player).*2
Find the beginning of the current track (AMS*1)	Turn the rotary control toward I◀◀ once.*2
Find the beginning of the previous tracks (AMS)	Turn the rotary control toward I◀◀ repeatedly.*2, *3
Find the beginning of the next track (AMS)	Turn the rotary control toward ▶/▶▶I once.*2, *3
Find the beginning of the succeeding tracks (AMS)	Turn the rotary control toward ▶/▶▶I repeatedly.*2, *3
Go backwards quickly	Turn the rotary control toward I◀◀ and hold it.*2
Go forward quickly	Turn the rotary control toward ▶/▶▶I and hold it.*2

*1 Automatic Music Sensor

*2 These operations can be done during both play and pause.

*3 You can locate the first track after the last track by turning the rotary control toward ▶/▶▶I repeatedly.
  You can also locate the last track after the first track by turning the rotary control toward I◀◀ repeatedly.

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About the display

- When you turn the rotary control toward ▶/▶▶I (press ▶▶I ▶ for the CD player) after changing the CD or turning off and on the player, the total number of tracks in the CD and total playing time appear for about two seconds.
- During play, the track number and the elapsed playing time of the current track appear.
- During pause, the elapsed playing time flashes.

If the volume level does not increase

- If AVLS is set to "LIMIT", set it to "NORM." For details, see "Protecting your hearing (AVLS)."
- If the headphones are connected to the LINE OUT (OPTICAL) jack, connect them to the ∩ (headphones) jack.

About CD-Rs/CD-RWs

This CD player can play CD-Rs/CD-RWs recorded in the CD-DA format*, but playback capability may vary depending on the quality of the disc and the condition of the recording device.

* CD-DA is the abbreviation for Compact Disc Digital Audio. It is a recording standard used for the Audio CDs.

Removing the CD

Remove the CD while pressing the pivot in the center of the tray.
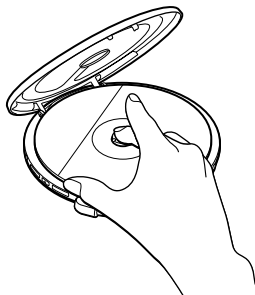
Playback options

You can enjoy various ways of playback using the PLAY MODE button and the RPT (repeat)/
ENT (enter) button.

PLAY MODE button

Each time you press the button, you can
change the playback mode.

**No indication
(Normal play)**

↓

**"1"
(Play a single track)**

↓

**"SHUF"
(Play tracks in random order)**

↓

**"PGM"
(Play tracks in your favorite order)**

RPT/ENT button

RPT (repeat)
You can repeat play that is selected using
PLAY MODE.

ENT (enter)
You can select tracks for PGM play
mode.

■ **button**

DISPLAY PLAYMODE RPT/ENT SOUND **II**

**Rotary control
(▶/▶▶I, I◀◀)**

10
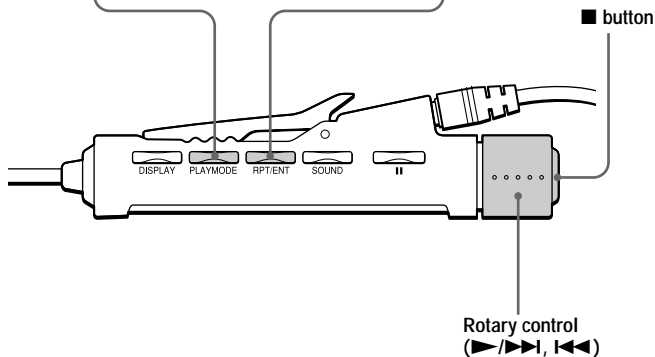
Playing tracks repeatedly (Repeat play)

You can play tracks repeatedly in normal, single, shuffle and PGM play modes.

During playback, press RPT/ENT.

```
001 00:01      ⊂⊃   ↻
```

Playing a single track (Single play)

During playback, press PLAY MODE repeatedly until "1" appears.

```
005 01:25      ⊂⊃   1
```

Playing tracks in random order (Shuffle play)

During playback, press PLAY MODE repeatedly until "SHUF" appears.

```
005 01:17      ⊂⊃   SHUF
```

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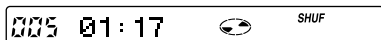
Playing tracks in your favorite order (PGM play)

You can program the CD player to play up to 64 tracks in your favorite order.

1 **During playback, press PLAY MODE repeatedly until "PGM" appears.**

$$\boxed{001\ 01 \qquad \ominus \qquad PGM}$$

2 **Turn the rotary control toward ►/►►I or I◄◄ to select a track.**

Track number

$$\boxed{005\ 01 \qquad \ominus \qquad PGM}$$
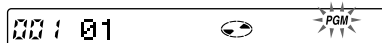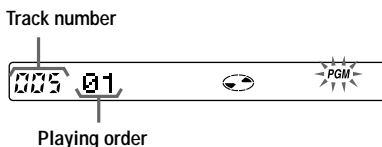
Playing order

3 **Press RPT/ENT to enter the selected track.**

"000" appears and the playing order increases by one.

$$\boxed{000\ 02 \qquad \ominus \qquad PGM}$$

4 **Repeat steps 2 and 3 to select the tracks in your favorite order.**

5 **Press RPT/ENT until the PGM play starts.**

To check the program

During programming:
Press RPT/ENT repeatedly before step 5.

During the PGM play:
Press PLAY MODE repeatedly until "PGM" flashes, then press RPT/ENT.

Each time you press RPT/ENT, the track number appears.

Notes
- When you finish entering the 64th track in step 3, the first selected track appears in the display.
- If you select more than 64 tracks, the first selected tracks are erased.

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G-PROTECTION function

The G-PROTECTION function has been developed to provide excellent protection against sound skipping while jogging. When you set the G-PROTECTION switch on your CD player to "2", the G-PROTECTION function will be enhanced compared to "1."

To walk with the CD player and enjoy high quality CD sound using the G-PROTECTION function, set the G-PROTECTION switch to "1." While taking harder exercise, it is recommended that you set it to "2."

Set G-PROTECTION (under the lid) to "1" or "2."

```
    ┌──────────┐
    │  ┌──┐    │
    │  └──┘    │
    └──────────┘
      ● ●
      1 2
G·PROTECTION
```

Note

Sound may skip:
- if the CD player receives stronger continuous shock than expected,
- if a dirty or scratched CD is played or
- when using poor-quality CD-Rs/CD-RWs or if there is a problem with the recording device or application software.

Displaying CD text information

When you play a CD containing CD text information, the track name, disc name, artist name, etc., appear in the display.

Display on the remote control

```
┌───────────────────────────────┐
│ ███                            │
│                                │
└───────────────────────────────┘
    │              │
 "Track        CD text appears in this
 number"       portion.*
 appears.
```

* While the CD player is reading the information on the CD, "READING" appears.

Press DISPLAY.

Each time you press the button, the display changes as follows:

```
              Display
      │
Normal play   ┌────────────────────────┐
      │       │ Track number and name of│
      │       │ the current track       │
      │       └────────────────────────┘
      ▼
Press DISPLAY ┌────────────────────────┐
once.         │ Track number and name of│
      │       │ the current track/artist name│
      │       └────────────────────────┘
      ▼
Press DISPLAY ┌────────────────────────┐
twice.        │ The number of tracks left**│
              │ and disc name/artist name │
              └────────────────────────┘
```
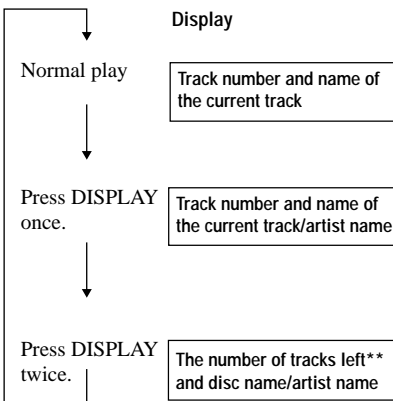
** Not displayed during single play, shuffle play or PGM play.

Note

CD text displayed on this CD player is in English only.

Checking the remaining time on the CD and the number of tracks left

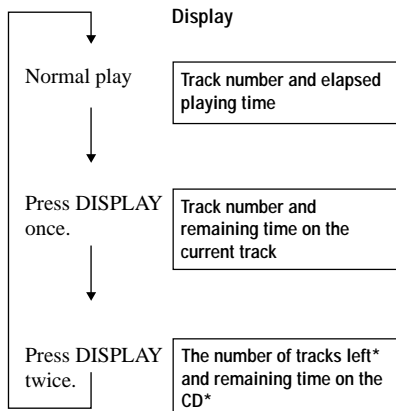You can check the remaining time on the CD and the number of tracks left using DISPLAY.
When playing a CD containing CD text information, you cannot use this function.

Press DISPLAY.

Each time you press the button, the display changes as follows.

Display

Normal play — Track number and elapsed playing time

Press DISPLAY once. — Track number and remaining time on the current track

Press DISPLAY twice. — The number of tracks left* and remaining time on the CD*

---

* Not displayed during Single play, Shuffle play or PGM play.
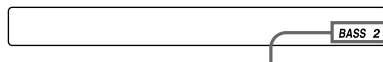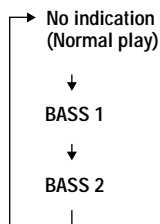
Emphasizing the bass sound (SOUND)

You can emphasize the bass-boosted sound.

Press SOUND to select "BASS 1" or "BASS 2."

→ No indication
  (Normal play)
  ↓
  BASS 1
  ↓
  BASS 2

BASS 2

The selected sound mode is displayed.

"BASS 2" enhances the bass sound more than "BASS 1."

Note

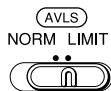If the sound is distorted when using the SOUND function, turn down the volume.

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Protecting your hearing
(AVLS)

The AVLS (Automatic Volume Limiter System) function keeps down the maximum volume to protect your hearing.

Set AVLS (under the lid) to "LIMIT."

Appears when the volume is turned up and beyond a certain level.

To turn off the AVLS function
Set AVLS to "NORM."

Locking the controls
(HOLD)

You can lock the controls on your CD player to prevent accidental button presses.

Slide HOLD in the direction of the arrow.

CD player | Remote control

CHARGE lamp flashes while the HOLD function is activated.

You can use the HOLD function with both the CD player and remote control. You can still operate your CD player using the remote control when HOLD on the remote control is set to off.

To unlock the controls
Slide HOLD in the opposite direction of the arrow.

Note

Even if the HOLD function is working, "HOLD" will not appear in the display of the remote control.

Available features

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Turning off the operation beep sound

You can turn off the beep sound that is heard from your headphones/earphones when you operate your CD player.

1 **Remove the power source (AC power adaptor, rechargeable batteries or dry batteries) from the CD player.**

2 **Connect the power source while pressing ■ (■/CHARGE for the CD player).**

To turn on the beep sound

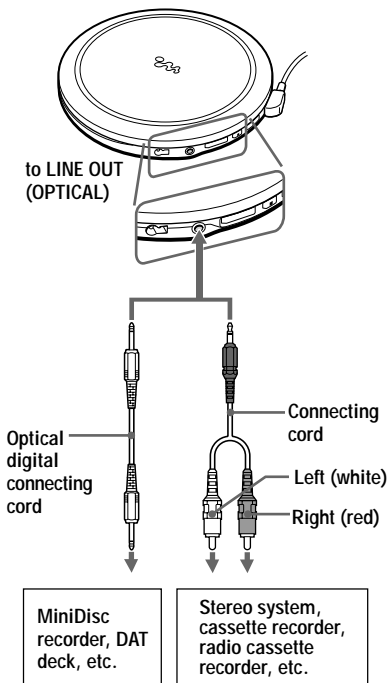Remove the power source and then connect the power source without pressing ■ or ■/CHARGE.

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► *Connecting your CD player*

Connecting a stereo system

You can listen to CDs through a stereo system and record CDs on a cassette tape and a MiniDisc. For details, see the instruction manual that comes with the connected device.

Be sure to turn off all connected devices before making connections.

to LINE OUT (OPTICAL)

Optical digital connecting cord

Connecting cord

Left (white)

Right (red)

MiniDisc recorder, DAT deck, etc.

Stereo system, cassette recorder, radio cassette recorder, etc.

Notes
- Before you play a CD, turn down the volume of the connected device to avoid damaging the connected speakers.
- Use the AC power adaptor for recording. If you use the rechargeable batteries or dry batteries as a power source, batteries may become completely depleted during recording.
- Adjust the volume properly on the connected device so that the sound will not be distorted.

When using the connecting cord
If the sound is distorted, connect the device to the Ω jack.

When using the optical digital connecting cord
To record a CD on a MiniDisc, DAT, etc., make sure that the CD player is in pause before operating the recording procedures.

About the G-PROTECTION and SOUND functions when using the connecting cord or optical digital connecting cord
- To record high quality CD sound, set the G-PROTECTION switch to "1."
- The SOUND function works only on the output sound from the Ω jack and not work on the output sound from the LINE OUT (OPTICAL) jack.

(Continued)

Connecting your CD player

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About Joint Text (CD text copying function)

The Joint Text function allows you to copy the disc and track names that are on a CD containing CD text information. By connecting a Sony MD Walkman (MZ-R909), which supports Joint Text, to this CD player, you can copy the CD text onto an MD during recording. You must use an optical digital connecting cable (POC-5B or other model, not supplied) and the RK-TXT1 CD text connecting cable (not supplied) to make the connections.
For details, refer to the operating instructions of the MD Walkman.

▶ Connecting to a power source

You can use the following power sources:
- Rechargeable batteries
- AC power adaptor (see "Playing a CD")
- LR6 (size AA) alkaline batteries (external battery case)

For the battery life and charging time of the rechargeable batteries, see "Specifications."

Using the rechargeable batteries

Charge the rechargeable batteries before using them for the first time. You can use only the following rechargeable batteries for your CD player.
- NC-6WM

**1 Open the battery compartment lid inside your CD player.**
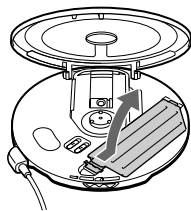
2 Insert two rechargeable batteries by matching the ⊕ to the diagram in the battery compartment and close the lid until it clicks into place.
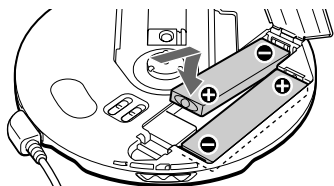
3 Connect the AC power adaptor to the EXT BATT/DC IN 4.5 V jack of your CD player and an AC outlet, then press ■/CHARGE to start charging.

If the AC power adaptor does not fit the AC outlet, use the AC plug adaptor.

■/CHARGE button•CHARGE lamp

to EXT BATT/ DC IN 4.5V

AC power adaptor

to an AC outlet
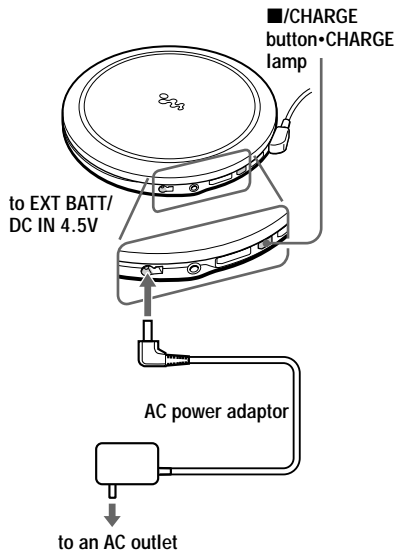
Charging of the batteries starts.
In the display of the remote control, "Charging" indication flashes and the indicator sections of light up in succession. The CHARGE lamp lights up on the CD player.
When the batteries are completely charged, all indications in the display disappear and the CHARGE lamp goes off.
If you press ■/CHARGE after the charge has already been completed, the indicator flashes and "FULL" appears in the display.

4 Disconnect the AC power adaptor.

(Continued)

Using the rechargeable batteries

To remove the rechargeable batteries

Push ⊖ to remove the batteries.

When to charge the rechargeable batteries

You can check the remaining power of the batteries in the display.

🔋	Battery power is full.
🔋	
🔋	Battery power is getting low.
🔋	
🔋	Battery power is low.
Lobatt*	Batteries are depleted.

* Beep sounds.

To keep the original battery capacity for a long time, charge the batteries only when they are completely depleted.
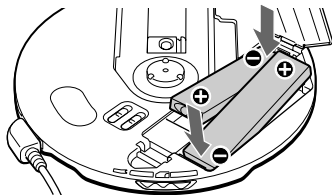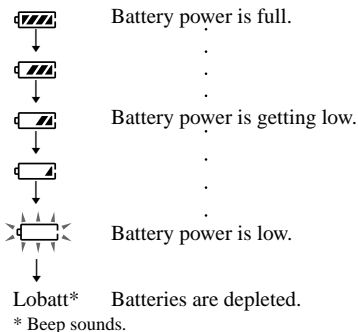
Notes
- The indicator sections of 🔋 roughly show the remaining battery power. One section does not always indicate one-fourth of the battery power.
- Depending on operating conditions, the indicator sections of 🔋 may increase or decrease.

When to replace the rechargeable batteries

If the battery life becomes shorter by about half, replace the batteries with new rechargeable batteries.

Note on the rechargeable batteries

If the battery is new or has not been used for a long time, it may not be charged completely until you charge and discharge it several times.

Note on carrying the rechargeable batteries

Use the supplied battery carrying case to prevent unexpected heat. If the rechargeable batteries and the metallic objects are contacted, heat or fire may occur due to a short circuit.

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Using the dry batteries

Make sure to use the supplied external battery case.
Use only the following dry battery type for your CD player:
• LR6 (size AA) alkaline batteries

1 **Unlock the cap of the external battery case, and insert two LR6 (size AA) alkaline batteries by matching the ⊕ to the diagram outside the external battery case and close the cap of the external battery case.**
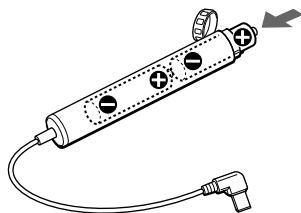
2 **Connect the external battery case to the CD player.**

to EXT BATT/
DC IN 4.5 V

With the ▲ side down
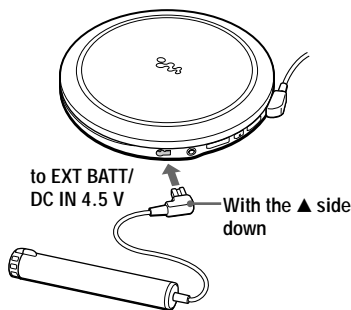
When to replace the batteries

You can check the remaining power of the batteries in the display.

Battery power is full.

Battery power is getting low.

Battery power is low.

Lobatt*   Batteries are depleted.
* Beep sounds.
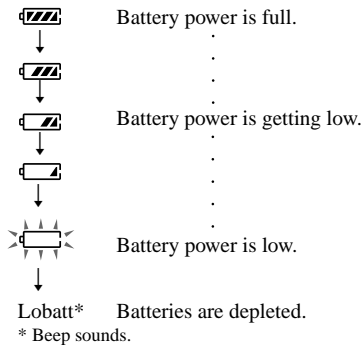
When the batteries are depleted, replace both batteries with new ones.
The batteries in the CD player and external battery case are discharged simultaneously.

Notes

• Be sure to remove the AC power adaptor when attaching the external battery case.
• When using the rechargeable batteries and dry batteries together to extend power, use fully charged rechargeable batteries and new dry batteries.

Connecting to a power source

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Notes on the power source

Disconnect all power sources when the CD player is not used.

On AC power adaptor

• Use only the AC power adaptor supplied or recommended in "Accessories (supplied/ optional)." Do not use any other AC power adaptor. It may cause a malfunction.

   Polarity of the plug

• When disconnecting the AC power adaptor from the AC outlet, grasp the adaptor itself. Do not pull it by the cord.
• Do not touch the AC power adaptor with wet hands.

On rechargeable batteries and dry batteries

• Do not charge the dry batteries.
• Do not throw the batteries into fire.
• Do not carry the batteries with coins or other metallic objects. It can generate heat if the positive and negative terminals of the battery are accidentally contacted by a metallic object.
• Do not mix rechargeable batteries with dry batteries.
• Do not mix new batteries with old ones.
• Do not use different types of batteries together.
• When the batteries are not to be used for a long time, remove them.
• If battery leakage occurs, wipe off any deposit in the battery compartment, and install new batteries. In case the deposit adheres to you, wash it off thoroughly.

Precautions

On safety

- Should any solid objects or liquid fall into the CD player, unplug it and have it checked by qualified personnel before operating it any further.
- Do not put any foreign objects in the DC IN 4.5 V (external power input) jack.

On the CD player

- Keep the lens on the CD player clean and do not touch it. If you do so, the lens may be damaged and the CD player will not operate properly.
- Do not put any heavy object on top of the CD player. The CD player and the CD may be damaged.
- Do not leave the CD player in a location near heat sources, or in a place subject to direct sunlight, excessive dust or sand, moisture, rain, mechanical shock, unleveled surface, or in a car with its windows closed.
- If the CD player causes interference to the radio or television reception, turn off the CD player or move it away from the radio or television.
- Discs with non-standard shapes (e.g., heart, square, star) cannot be played on this CD player. Attempting to do so may damage the CD player. Do not use such discs.

On handling CDs

- To keep the CD clean, handle it by its edge. Do not touch the surface.
- Do not stick paper or tape onto the CD.

Not these ways
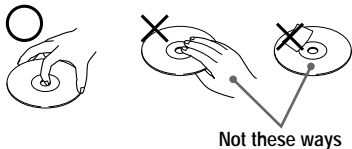
- Do not expose the CD to direct sunlight or heat sources such as hot air ducts. Do not leave the CD in a car parked under direct sunlight.

On headphones/earphones
Road safety

Do not use headphones/earphones while driving, cycling, or operating any motorized vehicle. It may create a traffic hazard and is illegal in some areas. It can also be potentially dangerous to play your headsets at high volume while walking, especially at pedestrian crossings. You should exercise extreme caution or discontinue use in potentially hazardous situations.

Preventing hearing damage

Avoid using headphones/earphones at high volume. Hearing experts advise against continuous, loud and extended play. If you experience a ringing in your ears, reduce volume or discontinue use.

Consideration for others

Keep the volume at a moderate level. This will allow you to hear outside sounds and to be considerate to the people around you.

Maintenance

To clean the casing

Use a soft cloth slightly moistened in water or a mild detergent solution. Do not use alcohol, benzine or thinner.

Additional information

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Troubleshooting

Should any problem persist after you have checked these symptoms, consult your nearest Sony dealer.

Symptom	Cause and/or corrective actions
Cannot adjust the volume by turning the rotary control on the remote control.	→ Pull the rotary control in the direction of the arrow indicated on the control, then turn the control toward VOL + or –. (page 8)
Cannot start play by turning the rotary control on the remote control.	→ The rotary control is pulled out. Push the control back, then turn the control toward ▶/▶▶।. (page 8)
The volume does not increase even if you press the VOL + button repeatedly.	→ Set the AVLS switch to "NORM." (page 15) → The headphones/earphones are connected to the LINE OUT (OPTICAL) jack. Connect them to the ∩ (headphones) jack. (page 7)
Cannot adjust the volume.	→ The headphones/earphones are connected to the LINE OUT (OPTICAL) jack. Connect them to the ∩ (headphones) jack. (page 7)
No sound, or noise is heard.	→ Connect the plugs firmly. (page 7) → Plugs are dirty. Clean the plugs with a dry soft cloth periodically.
The playing time is too short when powered with the dry batteries.	→ Check that you are using alkaline batteries and not manganese batteries. (page 21) → Replace the batteries with new LR6 (size AA) alkaline batteries. (page 21)
The playing time is too short when powered with the rechargeable batteries.	→ Charge and discharge the rechargeable batteries several times. (pages 19, 20)
"Lobatt" or "000" appears in the display. The CD does not play.	→ The rechargeable batteries are used up completely. Charge the batteries. (page 19) → Replace the batteries with new LR6 (size AA) alkaline batteries. (page 21)
"HiDCin" appears in the display.	→ Use only the AC power adaptor or car battery cord in "Accessories (supplied/optional)." (page 27) → Remove all power sources, then insert the batteries or connect the AC power adaptor again. (pages 7, 19, 21)
The CD does not play or "Nodisc" appears in the display when a CD is placed in the CD player.	→ The buttons are locked. Slide the HOLD switch back. (page 15) → The CD is dirty or defective. (page 23) → Check that the CD is inserted with the label side up. (page 7) → Moisture condensation has occurred. Leave the CD player aside for several hours until the moisture evaporates. → Close the lid of the battery compartment firmly. (page 19) → Make sure the batteries are inserted correctly. (pages 19, 21) → Connect the AC power adaptor to an AC outlet securely. (page 7) → The CD-R/CD-RW was not finalized. Finalize the CD-R/CD-RW with the recording device. → There is a problem with the quality of the CD-R/CD-RW, recording device, or application software.

Symptom	Cause and/or corrective actions
CHARGE lamp flashes when you press a button, the CD does not play.	→ The buttons are locked. Slide the HOLD switch back. (page 15)
Cannot adjust the volume with the VOL +/– buttons on the CD player.	→ The CD player is connected to an audio device. Adjust the volume using the volume control on the connected device. (page 17)
During recording with optical digital connection, the track number cannot be recorded correctly.	→ Record the track number again using a MiniDisc recorder, DAT recorder, etc. (page 17) → See the instruction manual that comes with the recording device. (page 17)
The CD player does not start charging.	→ During stop, press ■/CHARGE. (page 19) → You pressed ■ on the remote control. Press ■/CHARGE on the CD player. (page 19)
Playback starts from the point you stopped. (resume function)	→ The resume function is working. To start playing from the first track, turn the rotary control on the remote control toward ▶/▶▶I and hold it until the first track starts playing (press ▶▶I ▶ for 2 seconds or more for the CD player), or open the lid of the CD player. Or, remove all power sources, then insert the batteries or connect the AC power adaptor again. (pages 7, 8, 19, 21)
Rustling noise of the CD is heard.	→ Close the lid of the battery compartment firmly. (page 19)
When closing the lid of the CD player, the CD starts to rotate.	→ The CD player is reading the information on the CD. It is not malfunctioning.
You cannot operate the CD player properly using the remote control.	→ The buttons on the CD player are kept pressed by mistake.

Additional Information

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Specifications

System
Compact disc digital audio system

Laser diode properties
Material: GaAlAs
Wavelength: $\lambda = 780$ nm
Emission duration: Continuous
Laser output: Less than 44.6 µW
(This output is the value measured at a distance
of 200 mm from the objective lens surface on
the optical pick-up block with 7 mm aperture.)

D-A conversion
1-bit quartz time-axis control

Frequency response
20 - 20 000 Hz $^{+1}_{-2}$ dB (measured by JEITA CP-307)

Output (at 4.5 V input level)
Line output (stereo minijack)
   Output level 0.7 V rms at 47 kΩ
   Recommended load impedance over 10 kΩ
Headphones (stereo minijack)
   Approx. 5 mW + Approx. 5 mW at 16 Ω
   (Approx. 0.5 mW + Approx. 0.5 mW
   at 16 Ω)*
   *For the customers in France
Optical digital output (optical output connector)
   Output level: –21 - –15 dBm
   Wavelength: 630 - 690 nm at peak level

Power requirements
For the area code of the model you
purchased, check the upper left side of the
bar code on the package.
- Two Sony NC-6WM rechargeable batteries:
  2.4 V DC
- Two LR6 (size AA) batteries: 3 V DC
- AC power adaptor (DC IN 4.5 V jack):
  U/U2/CA2/E92/MX2/TW2/BR3 model:
  120 V, 60 Hz
  CED/CET/CEW/CEX/CE7/EE/EE1/E13/G5/
  G6/G7/G8/BR1 model: 220 - 230 V, 50/60 Hz
  CEK/3CE7 model: 230 - 240 V, 50 Hz
  AU2 model: 240 V, 50 Hz
  JE.W/E33/EA3/KR4 model: 100 - 240 V,
  50/60 Hz
  HK2 model: 220 V, 50/60 Hz
  AR1/CN2 model: 220 V, 50 Hz

Battery life* (approx. hours)
(When you use the CD player on a flat and stable
surface.)
Playing time varies depending on how the CD
player is used.

When using	G-PROTECTION "1"	"2"
Two NC-6WM (charged for about 5 hours**)	19	19.5
External battery case (two alkaline batteries***)	66	71
Rechargeable batteries NC-6WM and external battery case (two alkaline batteries***)	88	92

* Measured value by the standard of JEITA
   (Japan Electronics and Information Technology
   Industries Association).
** Charging time varies depending on how the
   rechargeable battery is used.
*** When using Sony alkaline batteries LR6 (SG)
   (produced in Japan)

Operating temperature
5°C - 35°C (41°F - 95°F)

Dimensions (w/h/d) (excluding projecting parts and controls)
Approx. $135.0 \times 18.2 \times 135.0$ mm
($5 \frac{3}{8} \times \frac{23}{32} \times 5 \frac{3}{8}$ in.)

Mass (excluding accessories)
Approx. 172 g (6.1 oz)

Design and specifications are subject to change
without notice.

Accessories (supplied/optional)

Supplied accessories

For the area code of the location in which you purchased the CD player, check the upper left side of the bar code on the package.

AC power adaptor (1)
Headphones/earphones with remote control (1)
Rechargeable batteries (2)
Battery carrying case (2)
Carrying pouch (1)
External battery case (1)
AC plug adaptor (1)*
* Supplied with JE.W and E33 models

Optional accessories

AC power adaptor	AC-E45HG
Active speaker system	SRS-Z1
	SRS-Z1000
Car battery cord	DCC-E345
Car battery cord with car connecting pack	
	DCC-E34CP
Car connecting pack	CPA-9C
Connecting cord	RK-G129
	RK-G136
CD TEXT connecting cable	RK-TXT1
Optical digital connecting cord	
	POC-5B
	POC-10B
	POC-15B
	POC-5AB
	POC-10AB
	POC-15AB
Rechargeable battery	NC-6WM
Earphones	MDR-E848LP
	MDR-EX70LP
	MDR-A44L
	MDR-A110LP

When connecting optional headphones/earphones to the supplied remote control

Use only headphones with stereo mini plugs. You cannot use headphones with micro plugs.

Stereo miniplug   **Micro plug**
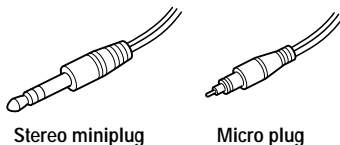
Your dealer may not handle some of the accessories listed above. Please ask the dealer for detailed information about the accessories available in your country.

Additional information

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http://www.sony.net/