# Compact Disc Compact Player

**Operating Instructions** 

About area code

The area code of the player you purchased is shown on upper left of the bar code label on the package.

For accessories supplied with your player, check the area code of your model and refer to "Supplied accessories" toward the end of this manual

For the customers in Australia

be replaced; if the cord is damaged, the AC power adaptor should be discarded.

For the customers not in Poland

The **B** mark on the unit is valid only for

The CE mark on the unit is valid only for products markets. For the customers not in Europe

The Prancial mark on the unit and package is valid

For the customers not in Russia

only for products marketed in Russia.

only for products marketed in the

products marketed in Poland.

The supply cord of the AC power adaptor cannot



D-E500 D-E504

Sony Corporation ©1997

### Welcome!

Thank you for purchasing the Sony Compact Disc Compact Player. Before operating your player, please read this manual and retain it for future reference.

About this manual

The instructions in this manual are for the D-E500 and D-E504. Before you start reading, check your model number

### WARNING

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

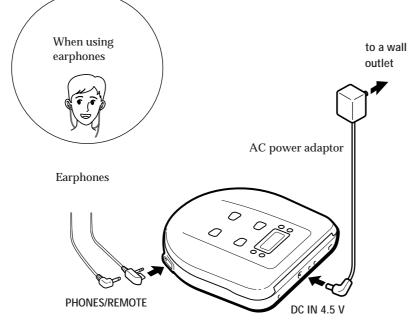
To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel

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

# Playing a CD right away!

If you want to play a CD right now, choose to use your player on house current. Other choices are the following three: rechargeable battery, dry batteries (see "Power Sources" on the reverse side) and car battery.





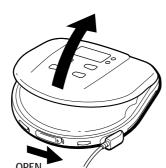
For models supplied with the AC plug adaptor

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

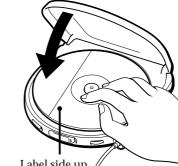
For models supplied with the remote control

- Connect the microplug of the earphones to the remote control, not to the PHONES/ REMOTE jack of the player.
- Connect the earphones to the remote control firmly. A loose connection may cause noise

Place a CD



Slide OPEN to open the lid.



2 Fit the CD to the pivot.

**Play** 



To stop play, press p

2 Adjust the volume.



The shape of the remote control supplied with the CED, CEK and E92 models is different from this on

Resume play after

on the RM-

control) once\*\*\*

Hold down

Find the beginning

of the current track

Go forward

quickly

of previous tracks ( ) repeatedly\*\*\* Find the beginning + (+ side of of the next track (AMS)

\*You cannot set the player in pause using the remote control (RM-DM23) supplied with the

\*\*\*These operations are possible during both

Remove the CD while pressing the pivot.

Notes on controlling the volume with

Set the VOL (volume) control on the remote

ntrol to MAX. Then adjust the volume on

the player to the level that you want to be the

• When you press ^ or ( (when RESUME is set to OFF), the total number of tracks in

During play, the track number and the

• During pause, the elapsed playing time

the next track will appear with the

elapsed playing time of the current track

Between tracks, the time to the beginning of

• To keep the CD clean, handle it by its edge. Do not touch the surface.

• 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

• Do not stick paper or tape onto the CD.

the CD and the total playing time appear for

CED, CEK and E92 models.

To remove the CD

the remote control

Notes on display

flashes in the display.

Notes on handling CDs

\*\*AMS = Automatic Music Sensor

Find the beginning To repeat all the tracks ( ) repeatedly\*\* Press REPEAT/ENTER during play. The "REPEAT" indication appears.

side of + (+ ( )\*\*\* 0:00:0 Go backwards Hold down = (= side of ( ) \*\*\*

To cancel repeat play, press REPEAT/ENTER

**z** Other Operations

(Repeat Play)

only one track.

Playing tracks repeatedly

You can play tracks repeatedly in normal, INTRO PGM, shuffle or RMS (Random Music

Sensor) play modes. Repeat all the tracks or

ENTER

To repeat a single track 1 Press REPEAT/ENTER while the track you The "REPEAT" indication appears.



2 Press PLAY MODE repeatedly until "1"



To repeat another track, press = or +

To cancel repeat play, press REPEAT/ENTER

## Playing only the tracks you want (INTRO PGM Play)

You can choose and play your favorite tracks by scanning through the beginning of each



**1** During play, press PLAY MODE repeatedly until "INTRO PGM" flashes



**2** Press ^ to start scanning. The player plays about the first 15 seconds of each track and "INTRO PGM"

**3** Press REPEAT/ENTER while the track you want is playing. To skip the track, press + or just wait for the next track

After you have gone through the CD, "INTRO PGM" stops flashing and the tracks you have chosen play automatically.

To finish programming before going through the whole CD, press  ${\mbox{^{\smallfrown}}}$  . The selected tracks

To cancel INTRO PGM play, press PLAY MODE repeatedly until the play mode indication disappears from the display.

Playing tracks in random order (Shuffle Play)

You can play the tracks in a CD in random



During play, press PLAY MODE repeatedly until "SHUFFLE" appears. The tracks play in random order.

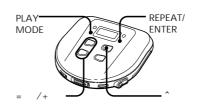


To cancel shuffle play, press PLAY MODE repeatedly until the play mode indication disappears from the display.

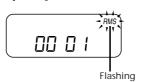
 $\bullet$  During shuffle play, you cannot return to

### Playing tracks in the order you want (RMS play)

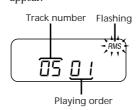
You can program up to 22 tracks to play in



**1** During play, press PLAY MODE repeatedly until "RMS" flashes



**2** Press = or + to choose a track. The track number and the playing order



**3** Press REPEAT/ENTER to program the

**4** Repeat steps 2 and 3 to program the

"RMS" stops flashing and the tracks you have chosen play in the order you

To cancel RMS play, press PLAY MODE until "RMS" disappears

To check the program

During programming: Press REPEAT/ENTER before step 5. During RMS play:
Press PLAY MODE repeatedly until "RMS" flashes, then press REPEAT/ENTER. Each time you press REPEAT/ENTER, the track number and the playing order appear in the order you specified.

• If you program another track after the 22nd track, the first track programed is cleared and the new track is programed instead.

Using other functions

To enjoy more powerful bass sound



Press Digital MEGA BASS to select BASS or BASS \_\_\_\_ is more effective

For the customers using the remote control with the SOUND button Press SOUND to select "BASS" or "BASS MAX." "BASS MAX" is more effective.

• If the sound is distorted when emphasizing bass, turn down the volume.

# To prevent sound from skipping

The ESP (Electronic Shock Protection) function prevents the sound from skipping by using a buffer memory that stores music data for about 10 seconds. Use this function when listening in a car or during a walk.



The ESP indication appears.

To release the ESP function, press ESP again.



· Playing may stop when the player gets a strong

shock even with the ESP function or You may hear a noise or sound skip when:

listening to a dirty or scratched CD, listening to an audio test CD or,

— the player receives co Sound may drop for a while if you press ESI

during play. When you use an optical digital connecting cord, the ESP function will be disabled.

To lock the buttons

You can lock your player against any accidental operations You can still operate the player with the



Slide HOLD in the direction of the arrow. When you press any button, "Hold " appears in the display and you cannot operate the player

To unlock, slide HOLD back

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

(AUTO VOLUME LIMITER SYSTEM

Set AVLS to LIMIT.

The AVLS indication appears.

turn down the volume

turned off the player

Set RESUME to ON.

To turn off the beep

operate your player.

05.0 1: 17

· If the sound is distorted when you listen to the

To resume playing from the point

you stopped the CD (Resume Play)

playing starts from the beginning of the CD.

The resume play function, however, let you

listen to from the point at which you last

To cancel resume play, set RESUME to OFF

• Even if RESUME is set to ON, playing starts

from the beginning when you open the lid.

• The resume point may be inaccurate by about

You can turn off the beep that sounds as you

patteries). While you press and hold down p

connect the power source again. To make the beep sound again, disconnect the power

source, and then connect it without pressing

You can listen to the CD through other stereo

equipment or record a CD on a cassette tape or a MiniDisc. Refer to the instruction manual of

connections, turn off each piece of equipment

Using the connecting cord

Connecting to other

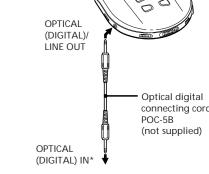
stereo equipment

Disconnect the power source (AC power

adaptor, rechargeable battery or alkaline

Normally, every time you stop and play,

ss-boosted sound with the AVLS function,



connecting cord

\*If the OPTICAL (DIGITAL) IN jack is squareshaped, use the POC-5AB optical digital

MiniDisc recorder

DAT deck, etc.

Notes on connecting to other stereo eauipment

onnecting cord instead.

 Before you play the CD, turn down the volume of the connected equipment so as not to damage the connected speakers. The beep sound is not output from the

OPTICAL (DIGITAL)/LINE OUT jack. You cannot adjust the volume of the equipment

onnected to the OPTICAL (DIGITAL)/LINE OUT jack using the VOLUME control of this player.
When you record a CD on a cassette tape using a tape recorder that has the blank search function, release the ESP function. If the ESP

function is on, the blank search function doe Recording with optical digital

Record a CD on a MiniDisc, DAT, etc., according to the following procedure

Press ^ on the player to start play. 2 Press ^ again to pause.
3 Press = /+ to select the track you want to

4 Press r (record) on the MiniDisc recorder

DAT recorder, etc. 5 Press ^ on the player to release pause

· Connect the optical digital connecting cord while the player is in stop mode.

If you make connection just after stopping the

olayer, optical signals may not be output If you record without pausing the player, some

CD may have problem with recording the first track number correctly. When you use digital equipment with your player, use the AC power adaptor. If you use a

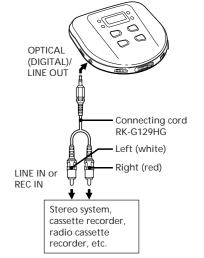
rechargeable battery or alkaline batteries, the optical digital signal will not be output from the player. (Unexpected phenomena may occur, for instance, you cannot record a CD on connected equipment.)

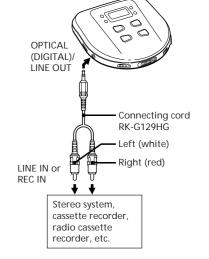
• Digital MEGA BASS can be output from the

PHONES/REMOTE jack, but not from the OPTICAL (DIGITAL)/LINE OUT jack.

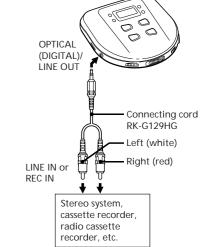
When use an optical digital connecting cord, the ESP function will be disabled.

Continue to the reverse side m





When you use a connecting cord, the Digital



# Playing a CD in a car

You can use your player in a car as illustrated



To connect your player to a car cassette deck, you need the following accessories

- Car connecting pack CPA-9
- Car battery cord DCC-E245
- Mount kit CPM-300PC (Mount plate + Car connecting pack + Car battery cord)
- Car battery cord with car connecting pack DCC-E26CP Refer to the instruction manual of each
- accessory for details.

When you use the CPM-300PC mount kit/CPM-300P mount plate Attach the car mount adaptor supplied to the

# CPM-300PC/300P before installing the

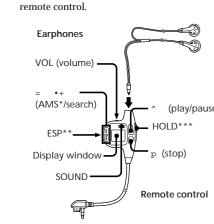
- Do not put the player on the dashboard. • Do not leave the player in a car parked under
- Use a Sony car connecting pack for reducing

# Switched ignition function

With this feature, your player stops automatically when you turn off the engine of the car. (This function is not possible with some cars depending on the model).

### Using the supplied remote control

For the customers supplied with RM-You can use the remote control as the wired

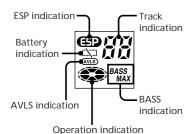


In the stop mode, you can start play by /+ (AMS/search) as well as

- \* Automatic Music Sensor
- \*\* Electronic Shock Protection \*\*\*When you are not using the remote control, slide HOLD in the direction of the arrow.

To unlock, slide HOLD back.

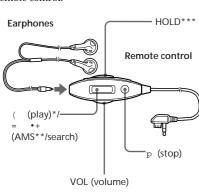
#### Display window



Lights up and rotates during Rotate faster during AMS or search. If the CD has not ben inserted, the inidication flashes

#### For the customers supplied with RM-DM23

You can use the remote control as the wired remote control.



- \* You cannot set the player in pause, using this remote control.
- \*\* Automatic Music Sensor
- \* When you are not using the remote control slide HOLD in the direction of the arrow. To unlock, slide HOLD back.

• Use only the supplied remote control. You cannot operate this player with the remote control supplied with other models.

# Using rechargeable battery

Charge the rechargeable battery before using it for the first time. You can use either BP-DM10 or BP-DM20

rechargeable battery for this player. You can use them in the same way, but their charging time and battery life are different. Check the model number of your rechargeable battery

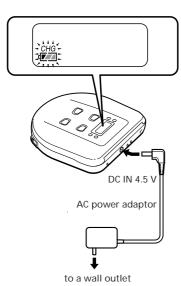
**1** Open the lid of the battery compartment.



**2** Insert the rechargeable battery so that the word "SONY" is facing the same direction as illustrated inside the lid, and close the lid.



**3** Connect the AC power adaptor. The indication "CHG" lights up. Charge for about 2 hours (for BP-DM10) or 3 hours (for BP-DM20). (If the battery has been already charged, "CHG" and 🚾 flash.)



**4** When fully charged, "CHG" disappears.

When to charge the battery When the battery becomes weak, indication appears in the display. If the battery is used up. "Lo batt" appears in

the display. Charge the rechargeable battery. To keep the original battery capacity for a long time, recharge the battery when the battery is used up (discharged)

- Charging time varies depending on how the rechargeable battery is used.

   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.
- · If the battery life becomes shorter by about half, replace it with Sony BP-DM10 or BP-DM20 rechargeable battery. Do not use any other rechargeable battery (R6 type rechargeable

#### z **Power Sources**

# **1** Open the lid of the battery compartment.



Using dry batteries

**2** Insert two LR6 (size AA) alkaline batteries by matching the and to the diagram inside the battery compartment and close the lid.



When to replace the dry batteries

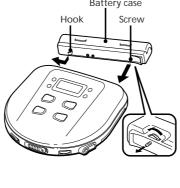
When the battery becomes weak. indication appears in the display. If the batteries are used up, "Lo batt " appears in the display. Replace all the batteries with new

- Do not charge the dry batteries.
- Do not mix new batteries with old ones. • Do not use different types of batteries together
- Do not use manganese batteries for this player.
  When the batteries are not to be used for a long time, remove them.

# Using the battery case

You can use the player for longer time by using the battery case, in addition to the rechargeable battery or batteries in the battery compartment of the player. Batteries in the battery case and the rechargeable battery or batteries in the battery compartment are consumed together.

**1** Hook the battery case onto the player and fasten the screw.



**2** Open the lid of the battery case.



**3** Insert two LR6 (size AA) alkaline batteries by matching the and to the diagram inside the battery case and close



# Battery life (approx. hours)

ESP function

When using

BP-DM20 (charged for about 3 hours*)	11	9	
Two alkaline batteries	20	16	
BP-DM10 (charged for about 2 hours*)	6	5	
BP-DM20 + Battery case (two alkaline batteries)	30	26	
Two alkaline batteries + Battery case (two alkaline batteries)	45	38	
BP-DM10 + Battery case (two alkaline batteries)	25	23	

(When the player is used on a flat and stable \*Charging time varies depending on how the rechargeable battery is used.

#### z Additional Information

### **Precautions**

#### On safety

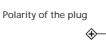
- Should any solid objects or liquid fall into the player, unplug it and have it checked by qualified personnel before operating it any
- · Do not put any foreign objects in the DC IN

#### On power sources

- When you are not using the player for a long time, disconnect all power sources from the • The nameplate indicating operating voltage,
- power consumption, etc. is located at the bottom of the AC power adaptor (for EA3

# On the AC power adaptor

• Use only the supplied AC power adaptor. If your player is not supplied with it, use AC-E45HG AC power adaptor. Do not use any



• To unplug the AC power adaptor from the wall outlet, grasp the adaptor itself, do not pull its cord.

#### On dry and rechargeable batteries • Do not throw the batteries into fire.

 Do not carry the rechargeable battery 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.

### On the player

- Keep the lens on the player clean and do not touch it. If you do so, the lens may be damaged and the player will not operate
- properly.

   Do not put any heavy object on top of the player. The player and the CD may be
- Do not leave the 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 player causes interference to the radio or
- television reception, turn off the player or move it away from the radio or television. · Do not wrap the player in a cloth or blanket during use as it may cause malfunction or

# 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

#### 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

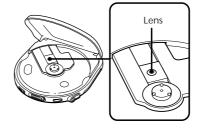
Caring for others Keep the volume at a moderate level. This will allow you to hear outside sounds and to be considerate to the people around you.

### Maintenance

#### To clean the lens

To clean the casing

Clean the lens with a lens cleaning kit KK-DM1.



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

#### **Troubleshooting**

The CD does not play or "no dlsc "

appears in the display though a CD

m The CD is dirty or defective.
m Insert the CD with the label side up.

m Moisture condensation has occurred

until the moisture evaporates. m The lens is dirty.
m Close the lid of the player and the battery

compartment firmly.

m Make sure the batteries are inserted

correctly.

m Connect the AC power adaptor to a wall

When you press ', "00" appears in

the display for a moment, and

No sound, or noise is heard.

m Connect the plugs firmly.

E45HG (not supplied).

when you press a button.

with new ones.

The battery life is short.

be recorded correctly.

you press a button.

disappears. The CD does not play.

m Rechargeable battery or dry batteries are

used up. Charge the rechargeable battery

or replace dry batteries with new ones.

m Plugs are dirty. Clean the plugs with a dry soft cloth periodically.

"Hl dc ln " appears in the display.

m Use only the supplied AC power adaptor

"Hold " appears in the display when

"Lo batt " appears in the display

m The rechargeable battery is used up

adaptor and charge the battery.

completely. Connect the AC power

m The dry batteries are use up. Replace them

m Manganese batteries are used. Use alkaline

m Replace the batteries with new ones.

The volume is limited to a certain

level even if you attempt to turn it

m AVLS selector is set to LIMIT. Set it to

**During recording with optical digital** 

connection, the track number cannot

m Record the track number again using the

MiniDisc recorder, DAT recorder, etc.

m Record again according to the procedure

shown in the section "Connecting to other

 $\ensuremath{^{\text{m}}}$  The buttons are locked. Slide HOLD back.

or recommended AC power adaptor AC-

Leave the player aside for several hours

is placed in the player.

#### Should any problem persist after you have made

Material: GaAlAs Wavelength:  $\lambda = 780 \text{ nm}$ Emission duration: Continu Laser output: Less than 44.6 uW distance of 200 mm from the objective lens

surface on the optical pick-up block with 7 mm aperture.)

Sony Super Strategy Cross Interleave Reed

# D-A conversion

1-bit quartz time-axis control

# Frequency response 20 - 20,000 Hz $^{+1}_{-2}$ dB (measured by EIAJ CP-

### Output (at 4.5 V input level)

# 15 mW + 15 mW at 16 ohms

Line output (stereo minijack) Output level 0.7 V rms at 47 kilohms Recommended load impedance over 10

Optical digital output (optical output

#### onnector) Output level: -21 - -15 dBm Wavelength: 630 - 690 nm at peak level

General

Power requirements
For the area code of the model you purchased, check the upper left side of the bar code on the

Sony BP-DM10 Rechargeable battery 2.4 V DC, Ni-Cd, 650 mAh

Sony BP-DM20 Rechargeable battery 2.4 V DC, Ni-MH, 1,200 mAh

• Two LR6 (size AA) batteries: 3 V DC • AC power adaptor (DC IN 4.5 V jack):

CA2/E92 model: 120 V. 60 Hz

CED/CEF/E13/CN2 model: 220 - 230 V, 50/60 Hz

CEK model: 230 - 240 V, 50 Hz

EA3 model: 110 - 240 V, 50/60 Hz

AU2 model: 240 V, 50 Hz JE.W/E33 model: 100 - 240 V, 50/60 Hz

• Sony CPM-300P mount plate for use on car battery: 4.5 V DC

#### Dimensions (w/h/d) (without projecting parts and controls)

Approx. 132 × 30.3 × 135.6 mm

 $(5^{1/4} \times 1^{1/4} \times 5^{3/8} \text{ in})$ Mass (without rechargeable battery)

Approx. 240 g (8.5 oz)

Operating temperature

#### 5°C - 35°C (41°F - 95°F)

Supplied accessories For the area code of the model you purchased check the upper left side of the bar code on the

package.
AC power adaptor (1)

Earphones (1)\*1
Earphones with remote control (1)\*2

Battery case (1)\*3 Connecting cord (Phono plug  $\times$  2  $\leftrightarrow$  stereo

miniplug) (1)\*4

Carrying case (1)

AC plug adaptor (1)\*5
\*1 Supplied with CA model

\*2 Not supplied with CA model

\*4 Not supplied with CED, CEK and JE.W

<sup>85</sup> Supplied with E33, E13, CN and JE.W Design and specifications are subject to change

#### without notice. For US customers

AC power adaptor supplied is not intended to be serviced. Should the AC power adaptor cease to function in its intended manner, during the warranty period, the adaptor should be returned Authorized Repair Center for replacement, o after warranty period, it should be discarded

**Specifications** 

Compact disc digital audio system Laser diode properties

Car battery cord with car connecting pack

Car battery cord DCC-E245 Active speaker system SRS-A21, SRS-A41,

Recommended accessories

Car connecting pack CPA-9

Mount plate CPM-300P Mount kit CPM-450PC\*

Mount kit CPM-300PC

Rechargeable battery BP-DM10, BP-DM20

Connecting cord RK-G129HG Optical digital connecting cord POC-5B, POC-10B, POC-15B, POC-5AB, POC-10AB,

POC-15AB AC power adaptor AC-E45HG

tereo headphones MDR-35, MDR-E848 \*Sold in Japan only

Your dealer may not handle some of the above listed accessories. Please ask the dealer for detailed information about the accessories in