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 manua



D-E400 **D-E400AN D-E400HR** D-E401 **D-E401SR** D-E403 D-E405 D-E406CK D-E406CKAN D-E409CK

Sony Corporation ©1998 Printed in Malaysia

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

ctions in this manual are for the D-E401SR, D-E403, D-E405, D-E406CK, D-E406CKAN and D-E409CK. Before you start The D-E400AN is the model used for illustration

Owner's Record

The model and the serial numbers are located at the bottom. Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this

Serial No.__

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 only.

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

INFORMATION

Listening for many hours at maximum volume may damage your hearing.

For the customers in the USA

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment
- Connect the equipment into an outlet on a circuit different from that to which the receiver
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this

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

For the customers not in Poland The **B** mark on the unit is valid only for

products marketed in Poland.

For the customers not in Europe The CE mark on the unit is valid

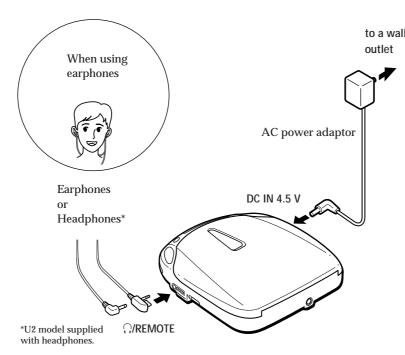
only for products marketed in the

For the customers not in Russia The property mark on the unit and package is valid only for products marketed in Russia.

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.

Connect

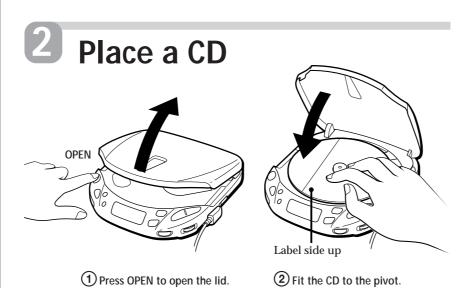


For models supplied with the AC plug adaptor

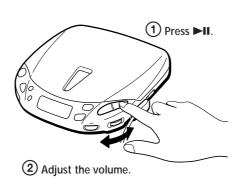
For models supplied with the remote control

• Connect the plug of the earphones/headphones to the remote control, not to the \(\)/ REMOTE jack of the player

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



Play



To stop play, press

То	Press
Pause (main unit only)	►II
Resume play after pause (main unit only)	►II
Find the beginning of the current track (AMS*)	I ⋖⋖ once**
Find the beginning of previous tracks (AMS)	I ≪repeatedly

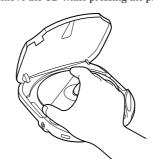
Find the beginning

of the next track

(AMS)	
Find the beginning of succeeding tracks (AMS)	►► repeatedly**
Go forward quickly	Hold down ▶▶I**
Go backwards quickly	Hold down ば ◀**

**These operations are possible during both play and pause.

To remove the CD Remove the CD while pressing the pivot.



Notes on controlling the volume with the remote control

control to MAX. Then adjust the volume on the eximum volume of the remote control.

- Notes on display

 When you press ►II or ► (when RESUME is set to OFF), the total number of tracks in the CD and the total playing time appear for about 2 seconds.
- During play, the track number and the elapsed playing time of the current track appear.

 • During pause, the elapsed playing time
- flashes in the display.

 Between tracks, the time to the beginning of
- the next track will appear with the "-"

Notes 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.
- 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

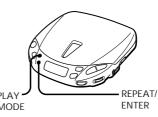




▶Other Operations

Playing tracks repeatedly (Repeat Play)

You can play tracks repeatedly in normal, INTRO PGM, shuffle or RMS (Random Music Sensor) play modes. Repeat all the tracks or only one track.



To repeat all the tracks Press REPEAT/ENTER during play.



To cancel repeat play, press REPEAT/ENTER

To repeat a single track

1 Press REPEAT/ENTER while the track you The " \(\sigma \)" indication appears

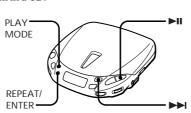


105 0 125 To repeat another track, press ► or ► I

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



- **2** Press ►II to start scanning The player plays about the first 15 econds of each track and "INTRO PGM" flashes faster
- **3** Press REPEAT/ENTER while the track you want is playing. To skip the track, oress 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.

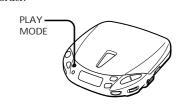
To finish programming before going through the whole CD, press ►II. The selected tracks will be played.

If you press ■, the program will be erased. To prevent accidental erasure, set the RESUME switch to ON.

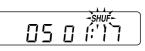
To cancel INTRO PGM play, press PLAY MODE repeatedly until the play mode indication disappears from the display

Playing tracks in random order (Shuffle Play)

You can play the tracks in a CD in random



During play, press PLAY MODE repeatedly The tracks play in random order.

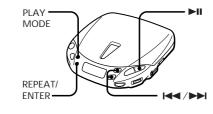


To cancel shuffle play, press PLAY MODE repeatedly until the play mode indication disappears from the display.

• During shuffle play, you cannot return to previous tracks by pressing ►

Playing tracks in the order you want (RMS play)

You can program up to 22 tracks to play in

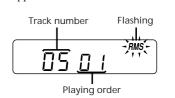


1 During play, press PLAY MODE



*RMS = Random Music Sensor

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 specified.

If you press \blacksquare , the program will be erased. To prevent accidental erasure, set the RESUME switch to ON.

To cancel RMS play, press PLAY MODE until

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.

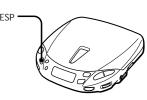
• If you program another track after the 22nd track, the first track programed is cleared and the new track is programed instead.

Using other functions

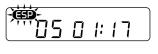
To minimize skipping (ESP²) The ESP (Electronic Shock Protection) function minimize skipping by using a buffer memory that stores music data and plays it back in the event of a shock.

The new ESP² (ESP Squared) system uses a new DSP (Digital Signal Processor) which can read and store music data more efficiently. providing a level of continuous skip protection not found in traditional buffer memory units. This decreases the frequency of sound skipping and the need to utilize the buffer memory. Use this function when listening in a car or while walking.*

 Although ESP² provides excellent protection against skipping, it will not prevent skipping while jogging or running



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 • 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 continuous shock.
 Sound may drop for a while if you press ESP

To enjoy more powerful bass sound

(Sound function) You can enjoy a powerful bass-boosted

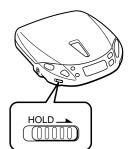


Press SOUND to select "MB (Mega Bass)" or

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

To lock the buttons

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



Slide HOLD in the direction of the arrow When you press any button, " $Hal\ d$ " appears in the display and you cannot operate the player

To unlock, slide HOLD back

Continue to the reverse side →

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



Set AVLS to LIMIT. The AVLS indication appears.



 If the sound is distorted when you listen to the bass-boosted sound with the AVLS function, turn down the volume

To resume playing from the point you stopped the CD (Resume Play)

Normally, every time you stop and play. playing starts from the beginning of the CD. The resume play function, however, let you listen to from the point where you last turned off the player



Set RESUME to ON.

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 30 seconds

To turn off the beep

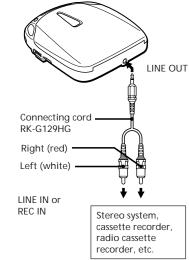
You can turn off the beep that sounds as you operate your player.

Disconnect the power source (AC power adaptor, rechargeable battery or alkaline batteries). While you press and hold down , connect the power source again. To make the beep sound again, disconnect the power

source, and then connect it without pressing

Connecting to other stereo equipment

You can listen to the CD through other stereo equipment or record a CD on a cassette tape. Refer to the instruction manual of the other equipment for details. Before making ections, turn off each piece of equipment



 When you use a connecting cord, the SOUND function will be disabled.

- 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 LINE OUT jack.
- When you connect other equipment to the LINE OUT jack of this player, adjust the volume on the connected equipment.
- 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 does not work.

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 Car battery cord
- 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

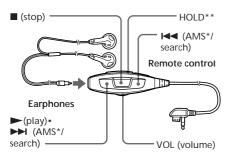
- Do not put the player on the dashboard.Do not leave the player in a car parked under
- sunlight.
- Use a Sony car connecting pack for reducing
- Use only the car battery cord listed in the recommended accessories. If you use any other car battery cord, smoke, fire or malfunction may occur

Switched ignition function (when using the car battery cord) 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 remote control

For the customers supplied with the remote control:

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



- * Automatic Music Sensor
- ** When you are not using the remote control, slide HOLD in the direction of the arrow to prevent any accidental operations To unlock, slide HOLD back.

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

▶ Power Sources

Using rechargeable battery

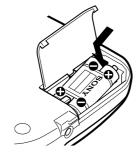
Charge the rechargeable battery before using it for the first time. Use only BP-DM10 or BP-DM20 rechargeable battery for this player. Do not use any other

rechargeable batteries. You can use BP-DM10 and BP-DM20 in the same way, but their charging time and battery life are different. Check the model number of your rechargeable battery before using it.

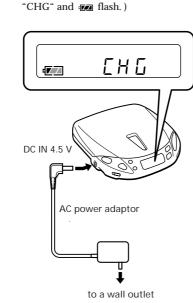
1 Open the lid of the battery compartment.



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 3.5 hours (for BP-DM20). (If the battery has been fully charged



4 When fully charged, "CHG" disappears. Disconnect the AC power adaptor

When to charge the battery

When the battery becomes weak. indication appears in the display. If the " $L\,\varpi$ $b\partial +$ appears in the display, charge the rechargeable battery, because the battery is

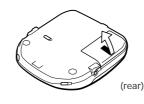
To keep the original battery capacity for a long time, recharge the battery when the battery is used up (discharged).

- 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.

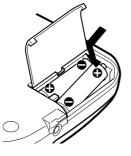
 If the battery life becomes shorter by about half, replace it with Sony BP-DM10 or BP-DM20 rechargeable battery. Do not use any other rechargeable battery (R6 type rechargeable battery, etc.).

Using dry batteries

1 Open the lid of the battery compartment.



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



• Do not use manganese batteries for this player.

To take out the dry batteries



When to replace the dry batteries When the battery becomes weak,

indication appears in the display. If the " $L \circ$ $b\partial + t$ " appears in the display, replace all the batteries with new ones, because the batteries are used up.

- · Do not charge the 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 the battery leakage occurs, wipe off any deposit in the battery compartment, and install

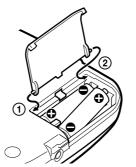
Pattory life (approx hours)(EIA I*)

When using	ESP function off on	
BP-DM20 (charged for about 3.5 hours**)	7	6
Two alkaline batteries LR6SG	14	12
BP-DM10 (charged for about 2 hours**)	3.5	3

Measured value by the standard of EIAJ (Flectronic Industries Association of Ianan (When the unit is used on a flat and stable place) **Charging time varies depending on how the rechargeable battery is used.

How to attach the battery compartment lid

If the battery compartment lid is detached by an accidental drop, excessive force, etc., attach



► Additional Information

Precautions

On safety

- Should any solid objects or liquid fall into the unit, 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 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 only.)

On the AC power adaptor

• Use only the supplied AC power adaptor. If vour player is not supplied with it, use AC-E45HG AC power adaptor. Do not use any other AC power adaptor. Polarity of the plug



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

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

For the customers having purchased the world model

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

On the player

- Keep the lens of 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 unit and the CD may be damaged.
- 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 echanical shock, unleveled surface, or in a car
- with its windows closed. If the player causes interference to radio or television reception, turn off the player or move
- t 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

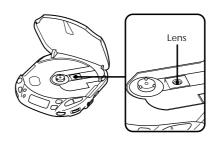
Caring for others

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

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



To clean the casing

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

Troubleshooting

Should any problem persist after you have made these checks, consult your nearest Sony dealer

The CD does not play or "no dl 50" appears in the display though a CD is placed in the unit.

→ Insert the CD with the label side up.

The CD is dirty or defective

- Moisture condensation has occurred Leave the unit aside for several hours until
- → The lens is dirty.

outlet securely

- → Close the lid of the unit and the battery compartment firmly.
 → Make sure the batteries are inserted
- → Connect the AC power adaptor to a wall

When you press ►II, "00" appears in the display for a moment, and

disappears. The CD does not play.

→ Rechargeable battery or dry batteries are used up. Charge the rechargeable battery or replace dry batteries with new on

No sound, or noise is heard.

- → Connect the plugs firmly.
 → Plugs are dirty. Clean the plugs with a dry soft cloth periodically

→ Use only the supplied AC power adaptor or recommended AC power adaptor AC-E45HG (not supplied

"HI dc In" appears in the display.

"Hal d" appears in the display when you press a button.

→ The buttons are locked. Slide HOLD back.

"Lo bð††" appears in the display

- when you press a button. → The rechargeable battery is used up completely. Connect the AC power
- daptor and charge the battery. → The dry batteries are used up. Replace

The battery life is short.

→ Manganese batteries are used. Use alkaline → Replace the batteries with new ones.

The volume is limited to a certain level even if you attempt to turn it

→ AVLS selector is set to LIMIT. Set it to NORM.

Specifications

Wavelength: $\lambda = 780 \text{ nm}$

Error correction

D-A conversion

General

Power requirements

CD player

Compact disc digital audio system Laser diode properties Material: GaAlAs

pick-up block with 7 mm aperture.)

1-bit quartz time-axis control

Headphones (stereo minijack)

15 mW + 15 mW at 16 ohms

Output (at 4.5 V input level)

Sony Super Strategy Cross Interleave Reed Solomon Code

Frequency response 20 - 20,000 Hz ⁻¹₋₂ dB (measured by EIAJ CP-

Line output (stereo minijack)
Output level 0.7 V rms at 47 kilohms

For the area code of the model you purchased.

check the upper left side of the bar code on the

Sony BP-DM20 Rechargeable battery:

• Two LR6 (size AA) batteries: 3 V DC

• AC power adaptor (DC IN 4.5 V jack):

CED/CEF/CEX/EE1/E13/CE7/CEW/

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

Sony CPM-300P mount plate for use on car

Dimensions (w/h/d) (without projecting parts

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

Earphones with remote control (1) AC plug adaptor (1)

Earphones with remote control (1)

Connecting cord (Phono plug \times 2 \leftrightarrow stereo

*3 Not supplied with CED, CEX, CEK, AR1

and EE1 models ⁴Supplied with E33, E13 and EA3 models

AC plug adaptor (1)*
* Supplied with E33, E13 and EA3 models

Connecting cord (Phono plug \times 2 \leftrightarrow stereo

Headphones with remote control (1)*1

Earphones with remote control(1)* Rechargeable battery (1)

Supplied with U2 model

*3 Supplied with E13 model

*2 Not supplied with U2 model

U2/CA2/E92 model: 120 V, 60 Hz

G6 model: 220 - 230 V, 50/60 Hz

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

CEK model: 230 - 240 V 50 Hz

AU2 model: 240 V 50 Hz

battery: 4.5 V DC

 $(5^{1}/8 \times 1^{1}/8 \times 5^{3}/4 \text{ in.})$

Approx. 220 g (7.8 oz)

5°C - 35°C (41°F - 95°F)

Supplied accessories

AC power adaptor (1) Rechargeable battery (1)

AC power adaptor (1)

AC plug adaptor (1)*4

AC power adaptor (1)

AC power adaptor (1)

Rechargeable battery (1)

AC power adaptor (1)

miniplug) (1)*1

AC plug adaptor (1)*

Active speaker system (1)

AC plug adaptor (1)*

* Supplied with E13 model

Supplied with U2 model

*2 Not supplied with U2 model

Headphones (1)*

Earphones (1)*

miniplug) (1)*3

Operating temperature

Approx. $129 \times 28 \times 146 \text{ mm}$

Mass (without rechargeable battery)

and controls)

package D-E400

D-E400AN

D-E400HR

D-E401

D-E401SR

D-E403

D-E405

Earphones (1)

HK2 model: 220 V. 50/60 Hz.

CN2/AR1 model: 220 V, 50 Hz

package.
• Sony BP-DM10 Rechargeable battery

2.4 V DC. Ni-Cd. 650 mAh

2.4 V DC, Ni-MH, 1,200 mAh

Recommended load impedance over 10

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

AC plug adaptor (1)*4 *1 Supplied with U2 model *2 Not supplied with U2 model *3 Not supplied with CED, CEX, G6 and U2

AC power adaptor (1)

Connecting cord (Phono plug \times 2 \leftrightarrow stereo

Headphones (1)*

Earphones (1)*2

miniplug) (1)*3

Velcro tape (2)

Spare fuse (1)

Spiral tube (1)

Car battery cord (1)

Car connecting pack (1)

models *4Supplied with E33, E13 and EA3 models D-E406CKAN

D-E406CK

Velcro tape (2) Spare fuse (1) Spiral tube (1)

AC power adaptor (1) Rechargeable battery (1) Headphones with remote control (1) Car battery cord (1)

Design and specifications are subject to change

AC power adaptor supplied is not intended to be serviced. Should the AC power adaptor cease to function in its intended manner, during the

Recommended accessories

Mount kit CPM-300PC Car connecting pack CPA-9 Car battery cord with car connecting pack DCC-E26ČP Car battery cord DCC-E245 Active speaker system SRS-A15, SRS-A35, SRS-A71, SRS-T1

AC power adaptor AC-E45HG

Sold in Japan only When connecting optional headphones to



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

For US customers

warranty period, the adaptor should be returned to your nearest Sony Service Center or Sony Authorized Repair Center for replacement, or after warranty period, it should be discarded.

Rechargeable battery BP-DM10, BP-DM20

vour country.

the supplied remote control, use only headphones with stereo mini plugs. You cannot use headphones with micro plugs



Headphones (earphones) (1) Car battery cord (1) Car connecting pack (1)

D-E409CK

Car connecting pack (1) Velcro tape (2) Spare fuse (1) Spiral tube (1)

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

Connecting cord RK-G129HG, RK-G136HG

Stereo headphones MDR-A44L, MDR-301LP, MDR-E848LP, MDR-35*2



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