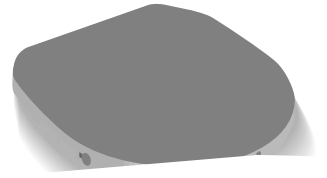


The model number and serial number of this product can be found on either the back or the bottom of the unit. Please note them in the space provided below and keep for future reference.

MODEL NUMBER \_\_\_\_\_  
SERIAL NUMBER \_\_\_\_\_



# Power Supply Preparations

Refer to the specifications (page 8) for information on operating times when using rechargeable batteries or dry-cell batteries.

## Using the car adaptor

Be sure to use the supplied car adaptor specially designed for this model.

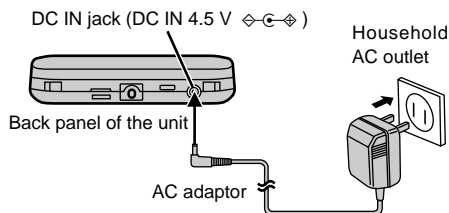
(Refer to the separate installation instructions.)

The car adaptor can be used to recharge the unit's batteries while in the car.

## Using the AC adaptor (not included)

To order the optional AC adaptor **RP-AC46** contact 1-800-332-5368 or web site (<http://www.panasonic.com>).

### Connect the AC adaptor.



### Conserving power

To save power when the unit is not to be used for a long time, unplug the AC adaptor from the household AC outlet. Reprogram tracks if necessary before use.

## Using rechargeable batteries (not included)

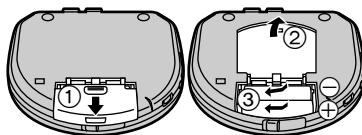
Obtain the optional rechargeable batteries.

Make sure to recharge the batteries before using them. The unit cannot be used to charge rechargeable batteries other than those specially designed for it.

**Optional batteries:** P-3GAVA/2B

### Recharging procedure

#### 1 Insert the special rechargeable batteries into the unit.



#### 2 Connect the AC adaptor.

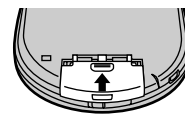
(Refer to "Using the AC adaptor" for connection instructions.) Recharging starts and the "CH" charging indicator flashes on the display. When the rechargeable batteries fully recharge the charging indicator disappears.

#### 3 When recharging is complete, unplug the AC adaptor from the household AC outlet and the DC IN jack.

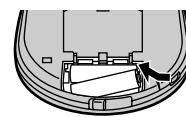
### Note

- Never mix dry cell and rechargeable batteries.
- Turn the unit off before replacing the rechargeable batteries.
- Rechargeable batteries have a service life of approximately 300 charge-discharge cycles. The batteries have reached the end of their operational life if they last for a noticeably shorter time after recharging, or if they cannot be recharged at all. Replace the batteries.
- Recharging may only be performed when the unit is powered off.
- The AC adaptor and rechargeable batteries may become warm while recharging is in progress. This is not a malfunction.

**If the battery lid comes loose**  
Slide the lid back into place horizontally.



**Removing batteries**  
Push up on the battery in the direction indicated by the arrow. Then lift it out.

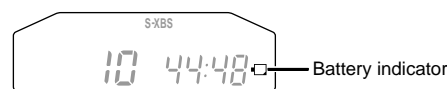


## Using dry-cell batteries (not included)

After disconnecting the AC adaptor, insert two "LR6, AA, UM-3" alkaline batteries.

The procedure for inserting and removing dry-cell batteries is identical to that for rechargeable batteries.

## Battery indicator



This indicator flashes when the batteries are almost out of power. Power is cut off completely a short while later.

**Rechargeable batteries:** Recharge batteries.

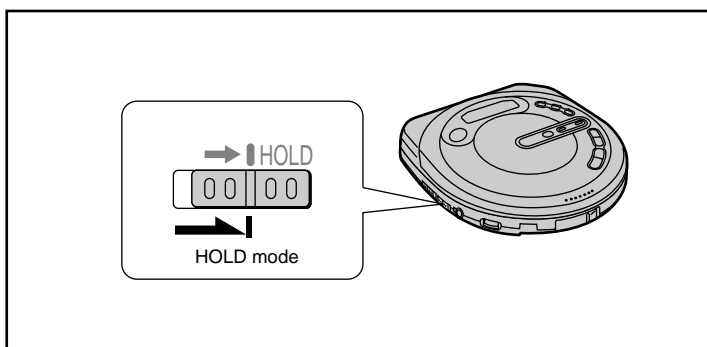
**Dry-cell batteries:** Replace batteries with new ones.

### Note

- The length of time the unit will continue to operate between when the battery indicator starts flashing and when the power is cut off differs depending on the type of batteries used.
- The battery indicator may not flash if rechargeable batteries other than those designated by Panasonic are used.

**If the unit malfunctions or freezes during use, then disconnect the power source (the AC adaptor or batteries). Re-connect the power source and continue operation.**

## HOLD Function



This function causes the unit to ignore short, accidental button presses. (The disc lid can still be opened and closed.)

**The HOLD function prevents the following:**

- The unit is powered on accidentally when not in use, causing the batteries to run down.
- A button is accidentally pressed during play, interrupting the operation.

### To use the HOLD function

Set [HOLD] to the HOLD position.

### "hold" indication

When the unit is in HOLD mode, pressing any button causes the indication "hold" to appear on the display.

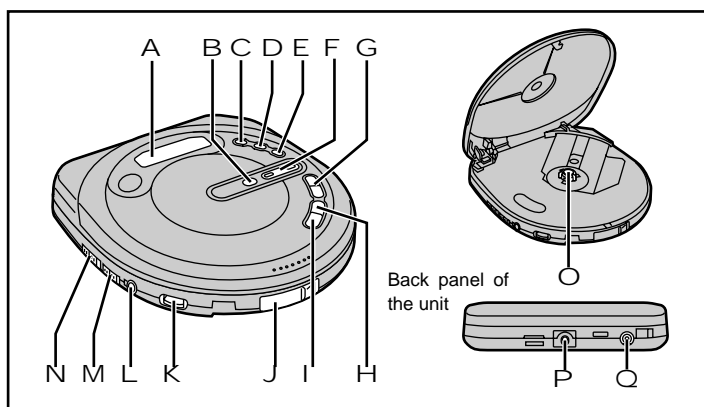
### When the unit is powered off

The "hold" indication appears only when [▶/||] is pressed.

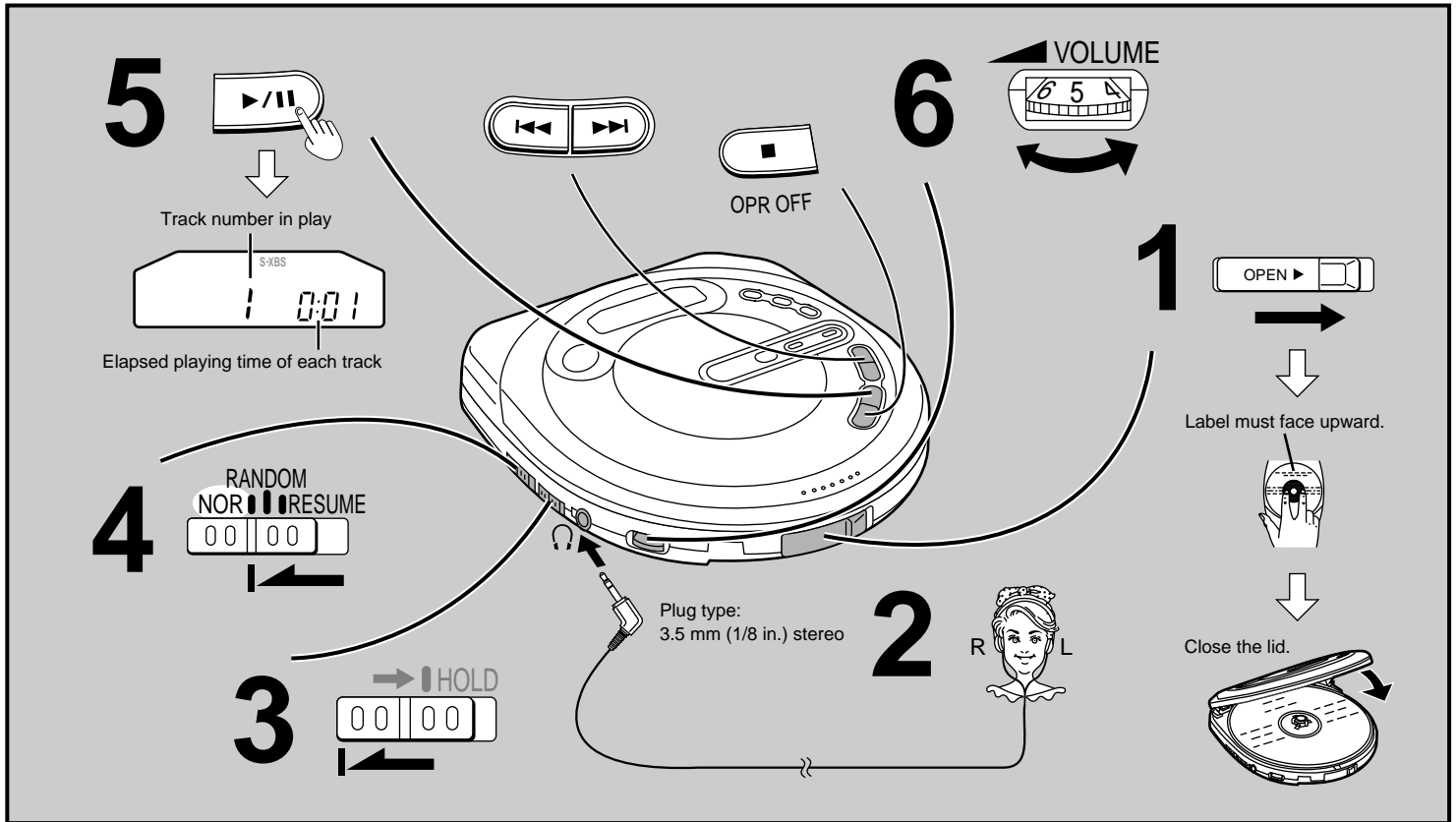
### Before operating the buttons

Be sure to move [HOLD] to release the unit from the HOLD mode.

## Location of Controls



- A Display
- B Album mode button (ALBUM MODE)
- C Memory/recall button (MEMORY/RECALL)
- D Repeat button (REPEAT)
- E S-XBS button (S-XBS)
- F Album skip buttons (← ALBUM →)
- G Skip/search buttons (◀▶)
- H Play/pause button (▶/||)
- I Stop/operation off button (■, OPR OFF)
- J Open switch (OPEN ▶)
- K Headphone volume control (VOLUME)
- L Headphone jack (🔊)
- M Hold switch (HOLD)
- N Play mode selector (NOR, RANDOM, RESUME)
- O CD release button (PUSH)
- P Hole for car mounting base
- Q DC IN jack (DC IN 4.5 V ⚡)



## Follow steps 1–6.

In **step 2**: Connect the stereo headphones to the [ ] jack. (**Plug in firmly.**)

- Play stops automatically when all the tracks have been played.
- If the unit has been connected to the car audio system, adjust the volume level between 4 and 6 on the unit, then adjust the volume level on the system.

Operation	Button	Display/reference
To pause play	Press during play. 	Press again to restart play. 
To stop play <b>Stop mode</b>	Press during play.  OPR OFF	Total number of tracks  Total playing time
To turn off the unit <b>Off mode</b>	Press during stop mode.  OPR OFF	
Skip forward/ backward (skip function)	Press during play. (Press [ ] twice to skip to the beginning of the previous track.) Backward      Forward	<ul style="list-style-type: none"> <li>• During program play (page 4), these buttons are used to skip forward or back through the programmed sequence of tracks.</li> <li>• During random play (page 4), the skip buttons cannot be used to skip back to tracks that were played previously in the random sequence.</li> <li>• During program play, random play or 1-track repeat play (page 4), search operation is limited to the current track only.</li> </ul>
Rapid forward/ backward (search function)	 Press and hold during play.	

## For your reference:

### “no disc” indication

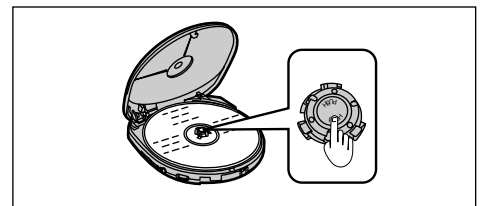
This indication appears for about 30 seconds if [ ] is pressed when no disc is loaded in the unit or if the disc is not properly secured.

### “OPEN” indication

This indication appears for about 10 minutes when the cover is opened. (However, the indication does not appear when the unit is powered off.)

### Removing discs

- 1 Press [ ] , OPR OFF] to stop play and disc rotation.
  - 2 Slide [OPEN ] to open the lid.
  - 3 Press [PUSH] to release the disc.
- Do not stop the disc by hand or try to remove it before it stops rotating. This can damage CDs.



### Note

Never insert foreign objects into the unit.

### Auto power off function

If the unit is left in stop mode for approximately 10 minutes, the unit powers itself off automatically in order to prevent the batteries from running down. (If no disc is loaded in the unit it powers itself off in about 30 seconds.)

### Note on CD-R and CD-RW

This unit can play CD-DA format audio CD-R and CD-RW that have been finalized\* upon completion of recording. It may not be able to play some CD-R or CD-RW due to the condition of the recording.

\*Finalizing is a process that enables CD-R/CD-RW players to play audio CD-R and CD-RW.

## Anti-Skip System

This system deals with skipping in a variety of ways:

- An anti-skip mechanism prevents skipping caused when play speed changes due to swinging of the unit.
- A recovery system immediately returns the laser pickup to its original position if it is knocked off the track by a strong shock.
- The 40-second anti-skip memory fills in interruptions caused by bumps and vibrations.

The anti-skip system works automatically while the system is on and cannot be canceled.

### When bumps continue repeatedly

The elapsed playing time disappears and sound is interrupted.



### Note

- The anti-skip memory compresses digital signals.
- The anti-skip memory holds up to 100 seconds of data when playing MP3 files created with a compression rate of 128kbps. (see pages 4 to 6).

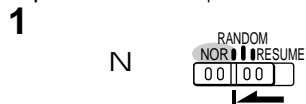
# Other Play Methods

The letters such as A in the various illustrations refer to the descriptions in the "Location of Controls" section (see page 2).

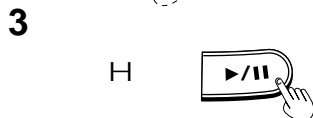
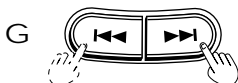
## Skip play

The disc plays from the specified track through to the end, then play stops automatically.

**Preparation:** Put unit in stop mode.



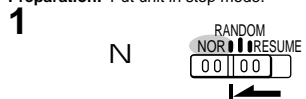
2 Select the desired track.



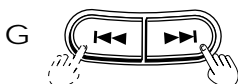
## Program play

Up to 20 tracks can be entered in the programmed sequence.

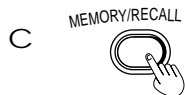
**Preparation:** Put unit in stop mode.



2 Select the desired track.

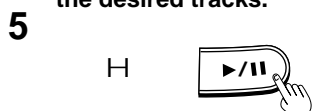


3 Register in sequence.



(The indication "M" and the programmed sequence appear on the display.)

4 Repeat steps 2 and 3 to program all the desired tracks.



■ To program the same track in the sequence more than once

After step 3, press [MEMORY/RECALL] desired number of times.

■ If "E" is displayed

No more tracks can be programmed.

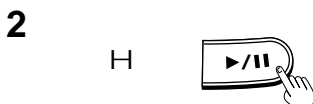
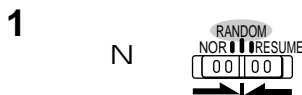
■ To confirm the contents of the program

Press [MEMORY/RECALL] while the disc is playing. (The number of the programmed tracks appear on the display in sequence.)

■ To delete the entire programmed sequence

Press [M], [OPR OFF].

## Random play

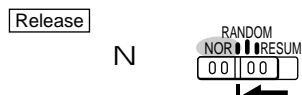


**For your reference:**

- It is also possible to press [▶▶] while the unit is in stop mode to change the first track to be played. (All tracks are played eventually, regardless of which is played first.)
- Program play is not possible in the random mode.

## Resume play

This function allows you to listen from the beginning of the track where play stopped because the unit was powered off (or switched to stop mode). It is useful when listening to CDs in the car, etc.



**For your reference:**

- If power is cut off near the end of a track (off mode), playback may resume from the beginning of the next track.
- If the unit is powered off and then a new disc is inserted, play will begin from the middle of the new disc because the unit remembers the position where play stopped on the previous disc.

## Repeat function

Press during play or stop mode.



The setting switches as shown below each time you press the button.

1-track repeat (1) ( ) ( )

One track is repeated.

All-track repeat ( ) ( )

All the tracks on the disc are repeated.

Cancel (no indicator is shown) ( ) ( )

**When pressed during program play**

The setting switches as shown below each time you press the button.

1-track repeat (1) (M) ( ) ( )

One track is repeated.

Memory repeat ( ) (M) ( ) ( )

The programmed tracks are repeated.

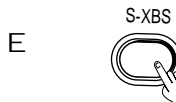
Cancel (M) ( ) ( )

**For your reference:**

If you select all-track repeat during random play, a new sequence is selected each time the tracks start repeating.

## Changing the sound quality

Press during play or stop mode.



The setting switches as shown below each time you press the button.

S-XBS < > Cancel (no indicator is shown)

**S-XBS:**

Select this setting to boost the low frequency range response.

# Playing MP3 files

## What is MP3 ?

A method of compressing audio, MPEG Audio Layer 3 (MP3) allows audio to be reduced to up to one tenth its original size when a compression rate of 128 kbps is used, without overtly hurting audio quality.

## When creating MP3 files to play on this unit

• **Disc formats:** ISO9660 level 1 and level 2 (except for extended formats)

**Files:** MP3 files with the suffix ".mp3" or ".MP3"

• MP3 files may not be played in the order you recorded them. Note the following if you want the files to play in the order you record them.

- 1 Use software that records the files to the disc in file name order.
- 2 Prefix folder and file names with 3-digit numbers in the order you want to play them.
- 3 Give the files and folders names with 8 characters or less, including the 3-digit prefix.
- 4 It is better not to create folders (albums) within folders (such as shown in example 2).

**This unit plays MP3 files in the following order.**

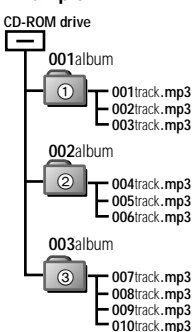
Numbers such as ① show the order folders (albums) and files (tracks) within them are played.

**Example1:** Recommended method when creating MP3 discs.

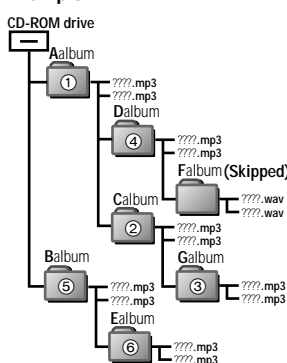
**Example2:** A disc not created in the recommended way.

- Play will be in the order shown in the below diagram, irrespective of folder and track names, so the order of play in this example will be A# C# G# D, not A# B# C# D. Folders and files in the same level will be played in order according to their names.
- Folders that do not contain MP3 files ("Falbum" in the example) are skipped.

**Example1**



**Example2**



## Limitations on MP3

- This unit cannot play files if they have a suffix other than ".mp3" or ".MP3".
- This unit cannot play files that have the suffix ".mp3" or ".MP3" if they are not MP3 files.
- This unit is not compatible with ID3 tags.
- This unit is compatible with multi-session but if there are a lot of sessions it takes more time for play to start. Keep the number of sessions to a minimum to avoid this.
- This unit cannot play files recorded using packet write.

## Frequently asked questions

**Q. Can I play a disc if it has both audio data and MP3 data?**

No. Only the data type used for the first track is played.

**Q. Is there a limit on the number of albums and tracks?**

This unit can play a maximum of 999 albums and 999 tracks. The unit cannot play albums or tracks beyond these limits.

**Q. Why is sound interrupted between tracks?**

The pick-up lens has to move to find the next track so a few seconds of silence is normal.

**Q. Can I use 700-MB data?**

Yes, you can.



# Other Play Methods with MP3 files

The letters such as A in the various illustrations refer to the descriptions in the "Location of Controls" section (see page 2).

## Track skip play

### Album mode

Plays from the selected track through to the last track in the current album.

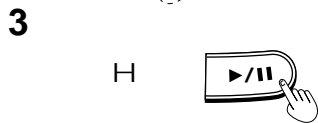
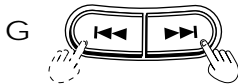
### Disc mode

Plays from the selected track through to the last track on the disc.

**Preparation:** Put unit in stop mode.



2 Select the desired track.



## Album skip play

You can skip album to album.

### Album mode

Plays from the first track of the selected album through to the last track in the current album.

### Disc mode

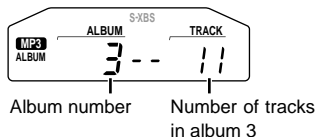
Plays from the first track of the selected album through to the last track on the disc.

**Press during play or stop mode to select the desired album.**



### When pressed while stopped

The album number and the total number of tracks within it appears on the display.



Press [▶/||] to start play from the first track in album 3. Press [◀◀] or [▶▶] first to select another track to start play.

## Resume play

This function allows you to listen from the beginning of the track where play stopped because the unit was powered off (or switched to stop mode). It is useful when listening to CDs in the car, etc.



## Program play

Up to 20 tracks can be entered in the programmed sequence.

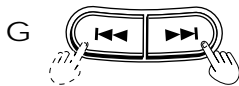
**Preparation:** Put unit in stop mode.



2 Select the desired album.



3 Select the desired track.

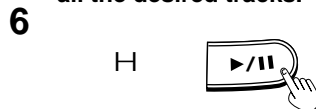


4 Register in sequence.



(The indication "M" and the programmed sequence appear on the display.)

5 Repeat steps 2, 3 and 4 to program all the desired tracks.



■ To program the same track in the sequence more than once

After step 4, press [MEMORY/RECALL] desired number of times.

■ If "F" is displayed

No more tracks can be programmed.

■ To confirm the contents of the program

Press [MEMORY/RECALL] while the disc is playing. (The number of the programmed tracks appear on the display in sequence.)

■ To delete the entire programmed sequence

Press [■,OPR OFF].

### For your reference:

If album mode was engaged, disc mode is engaged automatically when you press [MEMORY/RECALL].

## Random play

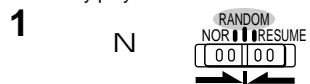
Tracks in an album or disc are played randomly until you release the mode or press [■,OPR OFF].

### Album mode

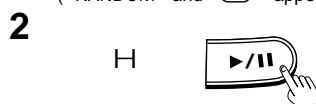
Randomly plays all the tracks in the current album.

### Disc mode

Randomly plays all the tracks on the current disc.



("RANDOM" and "⌂" appear on the display.)



### For your reference:

- It is also possible to press [← ALBUM →] and [▶▶] while the unit is in stop mode to change the first track to be played.
- Program play is not possible in the random mode.
- [REPEAT] does not work in the random mode.

## Repeat function

**Press during play or stop mode.**



The setting switches as shown below each time you press the button.

### Album mode

1-track repeat (1 ⌂) (-----)  
One track is repeated.

Album repeat (⌂)  
All the tracks in the album are repeated.  
Cancel (no indicator is shown) (-----)

### Disc mode

1-track repeat (1 ⌂) (-----)  
One track is repeated.

All-track repeat (⌂)  
All the tracks on the disc are repeated.  
Cancel (no indicator is shown) (-----)

### When pressed during program play

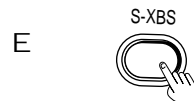
The setting switches as shown below each time you press the button.

1-track repeat (1 ⌂ M) (-----)  
One track is repeated.

Memory repeat (⌂ M)  
The programmed tracks are repeated.  
Cancel (M) (-----)

## Changing the sound quality

**Press during play or stop mode.**



The setting switches as shown below each time you press the button.

S-XBS <> Cancel (no indicator is shown)

### S-XBS:

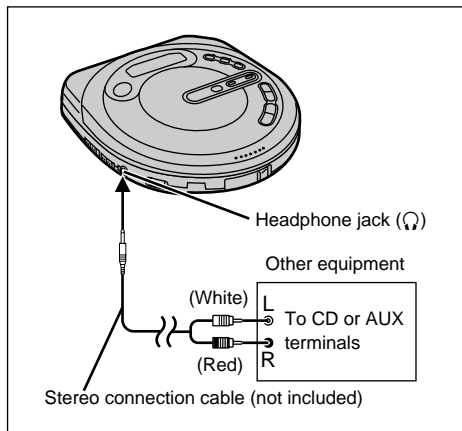
Select this setting to boost the low-range response.

# Using the Unit with Optional Accessories

## Using the unit with an audio system

Using stereo connection cable (not included), you can listen to CDs on your audio system.

- Turn off this unit and the other equipment before connection.
- Do not connect the cable to the PHONO jacks on the amplifier.
- Obtain the optional connecting cable if the other equipment comes with mini-phone jacks.
- Keep the unit's VOLUME control at a setting between 4 and 6, then adjust the volume on the other equipment.



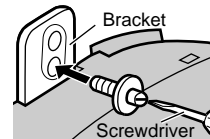
## Using the unit with a car audio system

This model comes with the car adaptor and the car stereo cassette adaptor. Please refer to the "Installation Instructions" (attached sheet).

### For securing the unit:

- Car mounting kit (SH-CDF20)

### Note when using the car mounting kit (SH-CDF20)



- ① Remove the screw from the bracket at the rear of the car mounting base.
- ② Replace the screw in the lower hole of the bracket.

### Note

It may not be possible to use the unit with some types of car stereos owing to restrictions imposed by the construction of the car stereo cassette adaptor.

For further details, refer to the instructions of the part concerned.

## Product Service

- 1. Damage requiring service**—The unit should be serviced by qualified service personnel if:
  - (a) The AC power supply cord or AC adaptor has been damaged; or
  - (b) Objects or liquids have gotten into the unit; or
  - (c) The unit has been exposed to rain; or
  - (d) The unit does not operate normally or exhibits a marked change in performance; or
  - (e) The unit has been dropped or the cabinet damaged.
- 2. Servicing**—Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel.
- 3. Replacement parts**—When parts need replacing ensure the servicer uses parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other hazards.
- 4. Safety check**—After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in proper working condition.

## Product information

For product information or assistance with product operation: Contact the Panasonic Customer Call Center at 1-800-211-7262, or e-mail [consumerproducts@panasonic.com](mailto:consumerproducts@panasonic.com), or web site (<http://www.panasonic.com>).

For assistance in the continental U.S.A. in obtaining repairs please ship the product to:

**Panasonic Services Company - Customer Servicenter**  
Suite B 4900 George McVay Drive  
McAllen, TX 78503

In Puerto Rico contact the Panasonic Sales Company.  
Tel. (787) 750-4300 Fax. (787) 768-2910

When shipping the unit carefully pack and send it prepaid, adequately insured and preferably in the original carton. Include a letter detailing the complaint and provide a day time phone number where you can be reached.

**IF REPAIR IS NEEDED DURING THE WARRANTY PERIOD THE PURCHASER WILL BE REQUIRED TO FURNISH A SALES RECEIPT/PROOF OF PURCHASE INDICATING DATE OF PURCHASE, AMOUNT PAID AND PLACE OF PURCHASE. CUSTOMER WILL BE CHARGED FOR THE REPAIR OF ANY UNIT RECEIVED WITHOUT SUCH PROOF OF PURCHASE.**

Also, the purchaser will be responsible for shipping the unit to the above address.

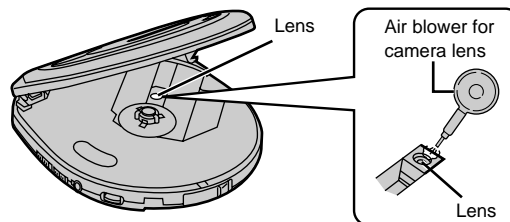
### User memo:

DATE OF PURCHASE \_\_\_\_\_  
DEALER NAME \_\_\_\_\_  
DEALER ADDRESS \_\_\_\_\_  
TELEPHONE NUMBER \_\_\_\_\_

## Maintaining the Lens

Open the lid and clean the lens as shown in the figure. Use a cotton swab to gently wipe off any finger-prints.

Recommended product: Lens cleaner kit (SZZP1038C)



### CAUTION!

**THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.**

### WARNING:

**TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE, DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.**

### CAUTION:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Any unauthorized changes or modifications to this equipment would void the user's authority to operate this device.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

# Specifications

## Audio

No. of channels: 2 (left and right, stereo)  
 Frequency response: 20 to 20,000 Hz  
 (+0 dB to -7 dB)  
 DA converter: 1 bit, MASH  
 Headphone output level: RMS max. 8 mW+8 mW/  
 16 Ω (adjustable)

## Pickup

Light source: Semiconductor laser  
 Wavelength: 780 nm

## MP3

Maximum number of items (sum of folders and files): 999  
 Maximum album levels: 100  
 Supported bit-rates: 32 kbps to 320 kbps  
 (128 kbps is recommended)

## General

Operational temperature range: 0 °C–40 °C  
 (32 °F–104 °F)  
 Rechargeable temperature range: 5 °C–40 °C  
 (41 °F–104 °F)  
 Power supply: DC 4.5 V with optional  
 AC adaptor RP-AC46

## Play time:

[Approximate operating time in hours (in hold mode with S-XBS canceled, at 25 °C (77 °F) on a flat, stable surface)]

Batteries used	CD-DA disc	MP3 disc
2 optional alkaline batteries	35	14
2 optional rechargeable batteries (P-3GAVA/2B)	12	5

• The play time may be less depending on the operating conditions.  
 • Play time will be considerably reduced when playing CD-RW.  
 Recharging time: About 5 hours  
 Dimensions (W×H×D): 128×27.0×131.5 mm  
 (5½×1⅛×5¼")  
 Mass: 259 g (9.1 oz.)  
 (with batteries)  
 213 g (7.5 oz.)  
 (without batteries)

## Note:

Specifications are subject to change without notice.  
 Mass and dimensions are approximate.

# Troubleshooting Guide

Before requesting service, make the below checks. If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, **contact the Panasonic Customer Call Center at 1-800-211-7262, or e-mail consumerproducts@panasonic.com, or web site (http://www.panasonic.com).**

Problem	Check this
<b>Cannot close the cover.</b>	Is the disc properly secured in place?
<b>Cannot play discs or "ERROR" is displayed.</b>	<ul style="list-style-type: none"> <li>• Is the unit in HOLD mode?</li> <li>• Is the disc properly secured in place?</li> <li>• Is there condensation on the lens? (Wait for about an hour and then try again.)</li> <li>• Is the disc dirty or scratched or the lens dirty? (Wipe the disc clean and clean the lens. If it is an MP3 disc and it is badly scratched, rerecord the files onto a fresh disc.)</li> </ul>
<b>Tracks on disc do not play in order, starting with the first track.</b>	Is [NOR, RANDOM, RESUME] in the [NOR] position?
<b>Cannot hear music—too noisy.</b>	<ul style="list-style-type: none"> <li>• Is the headphone plug inserted all the way?</li> <li>• Is the plug dirty? (Wipe away dirt on plug.)</li> <li>• Separate the unit from mobile phones.</li> </ul>
<b>TV picture is distorted. Radio reception is noisy.</b>	Are you using the unit too near a TV or tuner? (Keep the unit away from the TV or tuner.)

# Cautions

## Listening caution



Do not play your headphones or earphones at a high volume. Hearing experts advise against continuous extended play.

If you experience a ringing in your ears, reduce volume or discontinue use.

Do not use while operating a motorized vehicle. It may create a traffic hazard and is illegal in many areas.

You should use extreme caution or temporarily discontinue use in potentially hazardous situations.

Even if your headphones or earphones are the open-air type designed to let you hear outside sounds, don't turn up the volume so high that you can't hear what's around you.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing.

Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:

- Set the dial and leave it there.

Discontinue use if you experience discomfort with the headphones. Continued use may cause rashes or other allergic reactions.

## Selection and care of rechargeable /dry cell batteries

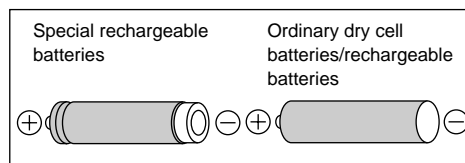
### ■ Selection

As a safety precaution, the portable CD players made by Panasonic are constructed so it is impossible to recharge ordinary batteries.

Only batteries especially designed for this unit can be recharged.

### Special rechargeable Ni-Cd batteries: P-3GAVA/2B (set of 2)

For details, check with your dealer.



- If rechargeable battery play time is short after recharging, the batteries have reached the end of their service life. Replace them with the recommended replacements.
- Play time may be shorter than usual after recharging batteries for the first time or after they have been unused for a long time. Repeatedly recharge and discharge the batteries if this occurs to restore them to normal.

### ■ Care

To prevent battery damage, electrolyte leakage and short-circuiting, heed the following points.

- Do not peel off the covering on batteries and do not use if the covering has been peeled off.
- Align the poles ⊕ and ⊖ correctly when inserting the batteries.
- Do not mix different types or of batteries or old and new batteries.
- Remove the batteries if you do not intend to use the unit for a long time.
- Do not throw into fire, short-circuit, disassemble, or subject to excessive heat.
- Do not attempt to recharge dry cell batteries.
- Do not allow metal objects to touch the battery terminals as this may cause short-circuiting which is dangerous.
- When carrying batteries in a pocket or bag, ensure no metal objects such as necklaces are placed together with them. Contact with metal may cause short-circuiting which can cause a fire. For safety, carry the rechargeable batteries in the battery carrying case.

## When driving a car

In the interest of traffic safety, do not operate the unit while driving.