

Concerning Compact Discs



Only compact discs bearing this mark can be used with this unit.

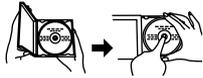
However, continued use of irregular shaped CDs can damage the unit.



How to remove a disc from its case



How to store the disc in its case



How to hold a disc



If the surface is dirty

Wipe it with a damp cloth and then wipe dry.

Wipe from the center toward the outer circumference.

Play surface
(shiny surface)



Handling precautions

- If you are taking the CD from a cold to a warm environment, moisture may form on the CD. Wipe this off with a soft, dry, lint-free cloth before using the CD.
- Do not write on the label side with a ball-point pen or other writing instrument.
- Do not use record cleaning sprays, benzene, thinner, static electricity prevention liquids or any other solvent.
- Do not attach labels or stickers to CDs. (Do not use CDs with exposed adhesive from tape or left over peeled off stickers.)

- Do not use scratch-proof protectors etc.

Storage precautions

Be sure to store CDs in their cases to protect them from dust, scratches, and warping.

Do not place or store CDs in the following places

- Locations exposed to direct sunlight
- Humid or dusty locations
- Locations directly exposed to a heat vent or heating appliance
- In the glove compartment or on the rear deck of an automobile

Portable CD player

Panasonic

Dear Customer

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully.

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 **SL-CT590**

SERIAL NUMBER _____

Operating Instructions

Model No.
SL-CT590



Supplied Accessories

Check the packing carton for these accessories.

AC adaptor 1 External battery case 1
(RFEA415C-1S) (RFA1821-H)

For U.S.A.
Stereo headphones 1 Ni-Cd rechargeable batteries* 2
(RFEV715P-SS) Battery carrying case 1
(RFC0062-X)

For Canada
Stereo earphones 1 Remove the rechargeable batteries from their case before use.

Use numbers indicated in parentheses when asking for replacement parts. [Refer to "Using rechargeable batteries" (page2) for the parts marked with an asterisk(*).]

(Only for U.S.A.) To order accessories contact 1-800-332-5368 or web site (<http://www.panasonic.com>).

Before connecting, operating or adjusting this product, please read these instructions completely. Please keep this manual for future reference.



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Division of Matsushita Electric Corporation of America
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IMPORTANT SAFETY INSTRUCTIONS

Read these operating instructions carefully before using the unit. Follow the safety instructions on the unit and the safety precautions listed below. Keep these operating instructions handy for future reference.

Safety

- 1. Power source**—Connect the unit to a power source of the type described in these instructions or as marked on the unit.
- 2. Polarization**—The unit is equipped with a polarized power plug where one blade is wider than the other. This safety feature ensures that the plug fits into your household AC outlet only one way. If the plug doesn't fit one way, try reversing it. If the plug still doesn't fit, contact an electrician to replace the obsolete outlet. Do not attempt to defeat the safety purpose of the plug.
- 3. Power cord protection**—Route the AC power supply cord so that it will not be walked on or pinched by items placed on or against it. Never take hold of the plug or cord with wet hands. Always grasp the plug body firmly when connecting and disconnecting it.
- 4. Overloading**—When connecting the AC power supply cord, be careful not to overload the household AC outlet, extension cord, or outlet from any other device as this can result in fire or electric shock.
- 5. Nonuse periods**—Turn the unit off when it is not in use. Unplug the unit from the household AC outlet if it is not to be used for a long time. Unplug the unit during lightning storms. Leaving the unit connected to a household AC outlet for extended periods can cause battery fluid leakage.
- 6. Attachments and accessories**—Use only the attachments and accessories recommended in these operating instructions.

Installation

Placement

- 1. Foreign material**—Ensure objects and liquids do not get into the unit. Avoid exposing the unit to excessive smoke, dust, mechanical vibration, and shock.
- 2. Magnetism**—Situate the unit away from equipment and devices that generate strong magnetic fields.
- 3. Stacking**—Do not place anything on top of this unit.
- 4. Wall and ceiling mounting**—Do not mount the unit on walls or ceilings unless specified in the instructions.

Environment

- 1. Water and moisture**—Do not use the unit near water, such as near a bathtub or swimming pool. Avoid damp basements.
- 2. Heat**—Situate the unit away from heat sources, such as radiators. Do not leave it in an automobile exposed to direct sunlight with the doors and windows closed as this may deform the cabinet. Do not situate where temperatures fall below 5 °C (41 °F) or rise above 35 °C (95 °F).

Maintenance

(See page 7 for details.)
Unplug the unit from the household AC outlet before cleaning.
Clean with a damp cloth.
Do not use abrasive pads, scouring powders, or solvents.

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.



This manual was printed with soy based ink.

Power Supply Preparations

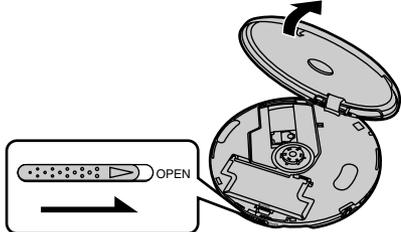
Refer to the specifications (page 8) for information on operating times when using rechargeable batteries or dry cell batteries.

Using rechargeable batteries

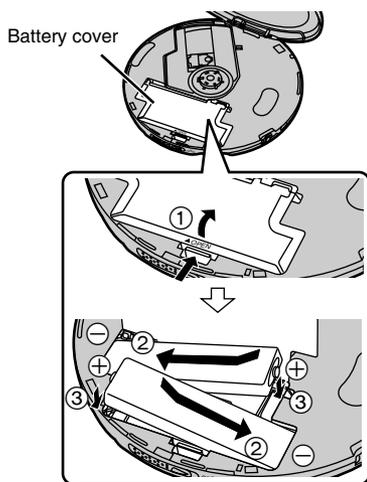
Recharge the batteries before use.

Recharging procedure

1 Slide [OPEN] to open the lid.

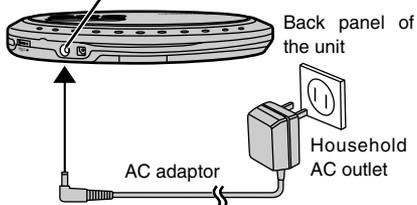


2 Open the battery lids and insert the two rechargeable batteries. Press to open in step ①.

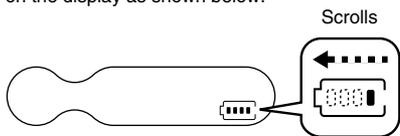


3 Connect the AC adaptor.

DC IN jack (⚡ DC IN 4.5 V)



Recharging starts and a battery indicator appears on the display as shown below.



When the rechargeable batteries are fully recharged, the battery indicator disappears. (It takes approximately 2 hours to fully recharge the supplied rechargeable batteries.)

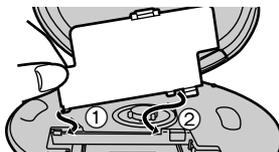
4 When recharging is complete, unplug the AC adaptor from the household AC outlet and the DC IN jack.

Note

- 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.
- 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.
- Leaving the AC adaptor connected can cause the batteries to go flat. After recharging the batteries and disconnecting the AC adaptor from the AC power outlet, ensure you disconnect the adaptor from the unit's [⚡ DC IN 4.5 V] terminal.

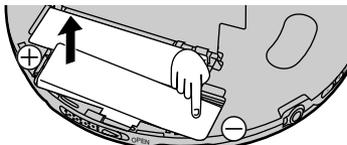
If the battery lid comes loose

Insert the protrusions on the lid into the holes on both sides of the compartment. Ensure the lid is correctly fitted before closing it. Incorrect fitting can scratch your CDs.



Removing batteries

Press the end of the battery (⊖) and lift out.



Replacement

Nickel-metal hydride rechargeable batteries(HHF-AZ01)

Using the AC adaptor

Use only the included AC adaptor. Using other adaptors can cause overheating which can lead to fire.

Connect the AC adaptor supplied.

Refer to step 3 in "Using rechargeable batteries" for connection instructions.

Conserving power

The AC adaptor consumes 2.1 W when the unit is turned off with [■]. 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 the car adaptor (not included)

Be sure to obtain the car adaptor (SH-CDC9), available as an optional accessory.

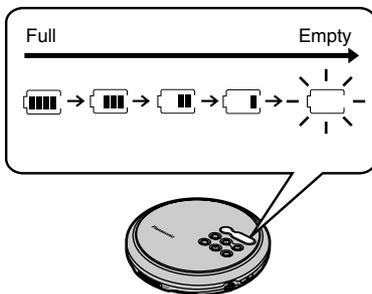
CAUTION:

Use only car adaptor, Model: SH-CDC9 manufactured by Matsushita Electric Industrial Co., Ltd.

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

Battery indicator

The battery charge is shown in five levels on the display.



When the battery indicator flashes

Power is cut off a short while later. Recharge the rechargeable batteries or replace the dry cell batteries with new ones.



Note

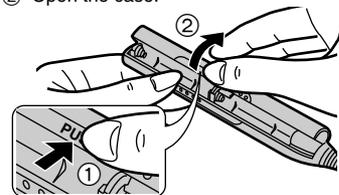
- When the unit is used with a AC adaptor, the battery indicator is not displayed.
- The battery indicator may temporarily show a lower level or otherwise not operate correctly when searching and skipping, and also if the unit is used in an extremely cold environment.
- The length of time the unit will 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 be displayed if rechargeable batteries other than those designated by Panasonic are used.

Using dry cell batteries (not included)

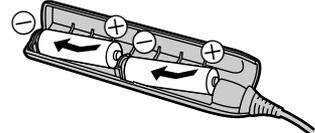
The external battery case allows you to extend the maximum playing time of the unit by loading an additional two "LR6, AA, UM-3" alkaline batteries.

1 Open the cover of the external battery case and insert the batteries.

- ① While pressing on the part marked "PUSH"
- ② Open the case.

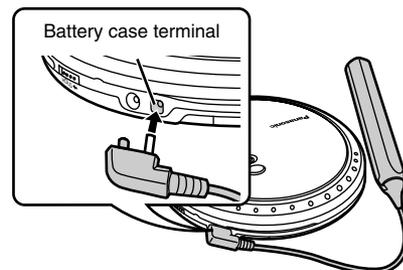


Insert the end marked (⊖) first.



2 Connect the case to the battery case terminal.

The case's plug can only be inserted one way and this prevents it and the AC adaptor from being connected at the same time. Do not try to turn the plug after connecting it.

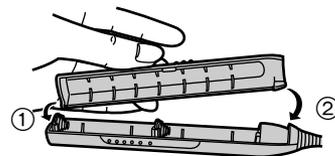


For your reference:

The unit can be powered by the batteries in the external battery case alone. No batteries need to be loaded in the player.

If the cover of the external battery case comes loose:

Insert the protrusions on the cover into the holes in the case.



Note

- If rechargeable batteries and dry cell batteries are used together, make sure to use fully charged rechargeable batteries and new dry cell batteries.
- Do not swing the unit around while the battery case is connected as this can cause damage to the connection and may be a danger to those around you.

If the unit malfunctions or freezes during use, disconnect the power sources (the AC adaptor or batteries).

Re-connect the power source and continue operation.

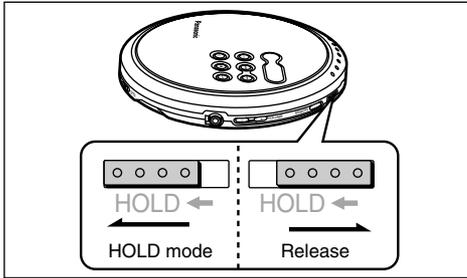
When using batteries

This unit includes a mechanism that extends the life of the batteries by varying the rotation rate of the motor. Motor noise may increase when the rate changes.

If the noise bothers you

Use the AC adaptor to power the unit. The rotation rate does not change while you are using the AC adaptor.

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.

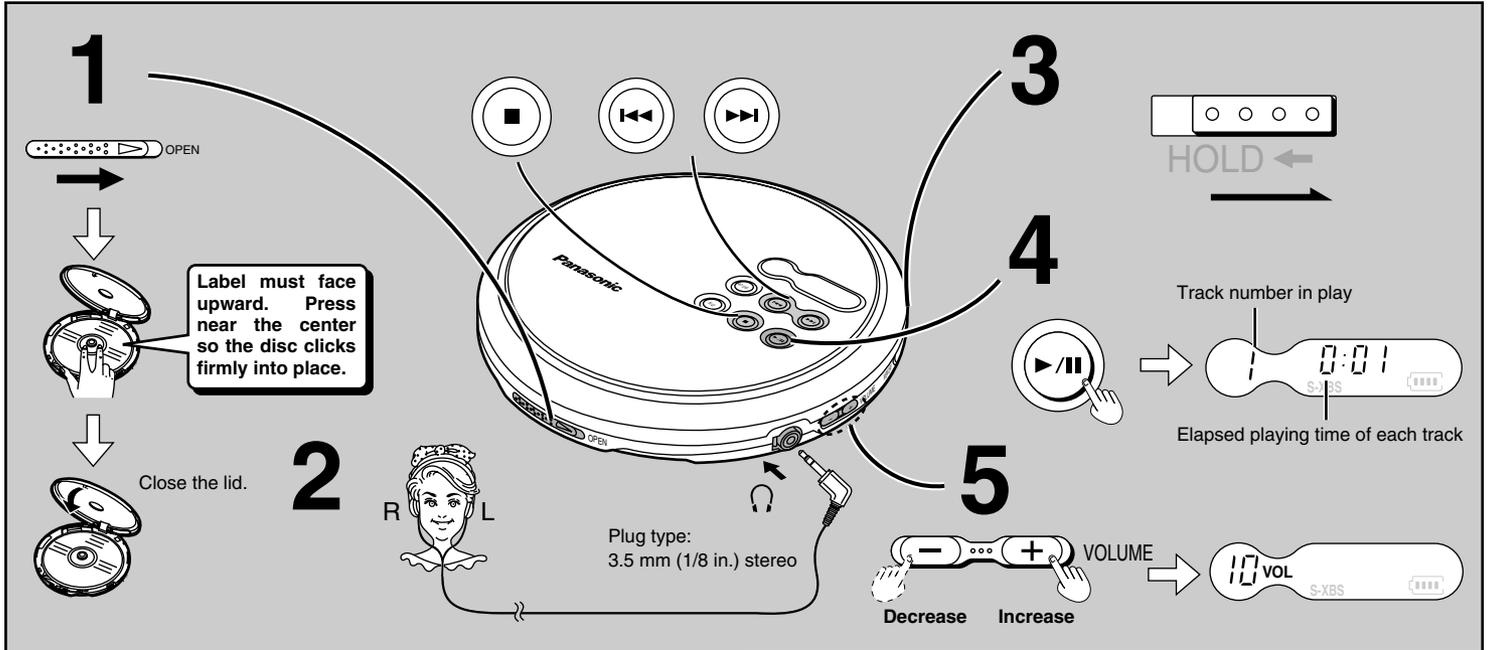
When the unit is powered off

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.

Sequential Play Basic Play



Follow steps 1–5.

In step 2: Connect the stereo headphones/stereo earphones to the headphone jack (🔌). (Plug in firmly.)

In step 5: The volume range is 0-25. Press and hold to change the volume successively. The volume changes when pressed while the level is displayed. If any other display is shown, it changes to show the current level. The volume returns to 10 when you disconnect the power source.

- Play stops automatically when all the tracks have been played.
- If the unit has been connected to the car audio system, set this unit's volume level to 10, then adjust the volume level on the system.

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 lid is opened. (However, the indication does not appear when the unit is powered off.)

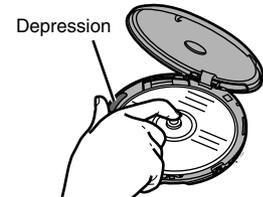
Auto-off function

If you leave the unit in stop mode for about 10 minutes (30 seconds if disc is not loaded), it turns off to save the batteries.

Removing discs

- 1 Press [■] to stop play and disc rotation.
- 2 Slide [OPEN] to open the lid.
- 3 Once the disc has stopped, lift the disc out with your finger in the depression.

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.

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.

Operation	Button	Display/reference
To pause play	Press during play. 	 Press again to restart play.
To stop play Stop mode	Press during play. Resume function Play starts from the beginning of the current track the next time you press [▶/].	Total number of tracks Total playing time
To turn off the unit Off mode	Press during stop mode. 	No indicator is shown
Skipping tracks	Press during play. (Press [◀◀] twice to skip to the beginning of the previous track.) Backward Forward 	<ul style="list-style-type: none"> •During program play (page 4), these buttons are used to skip forward or backward through the programmed sequence of tracks. •You cannot skip to tracks that have been played in random or random repeat play (page 4). •During program play, 1-track repeat play, random play and random repeat play (page 4), search operation is limited to the current track only.
Searching through tracks	 Press and hold during play.	

Resume function notes

- Opening the lid while in the stop mode or replacing the disc while in the off mode cancels the function. (It may remain active if you replace a disc in the off mode.)
- Play may resume from the beginning of the next track if you stopped play near the end of a track.
- The resume function works automatically and cannot be turned off.

Other Play Methods

The letters such as **A** in the illustrations refer to the descriptions in the “Location of Controls” section.

Skip play

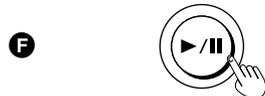
The disc plays from the selected track through to the last track, then play stops automatically.

Preparation: Put unit in stop mode.

1 Select the desired track.



2



Changing the sound quality

Press during play or stop mode.



The setting switches in the sequence indicated below each time [EQ] is pressed.

S-XBS → **TRAIN** → **LIVE** → **Cancel** (no indicator is shown)

S-XBS:

Select this setting to boost the low-range response.

TRAIN:

Select this setting to avoid annoying other passengers with noise from your headphones/earphones while riding on the train, or to reduce fatigue when listening for a long period of time.

LIVE:

Select this setting for a live concert effect.

Note

The setting is returns to S-XBS when you disconnect the power source.

Program play

Up to 24 tracks can be entered in the program.

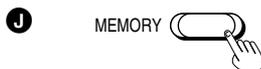
Preparation: Put unit in stop mode.

1 Select the desired track.



2 Register in sequence.

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



3 Repeat steps 1 and 2 to program all the desired tracks.

4



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

After step 2, press [MEMORY] desired number of times.

■ **If “F” is displayed**

No more tracks can be programmed.

■ **To confirm the contents of the program**

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

■ **To delete the entire program**

Press [■].

Note

The repeat and random play modes are canceled after steps 1 and 2.

Repeat play/Random play

Press during play or stop mode.



The setting is switched in the sequence indicated below each time [MODE] is pressed.

1-track repeat (1 ↺)

One track is repeated.

All-track repeat (↺)

All the tracks on the disc are repeated.

Random (RANDOM)

The tracks play once each in random order and then play stops.

Random repeat (RANDOM ↺)

The tracks play repeatedly in random order.

Cancel (no indicator is shown)

When pressed during program play

The setting is switched in the sequence indicated below each time [MODE] is pressed.

1-track repeat (1 ↺ M)

One track is repeated.

Memory repeat (↺ M)

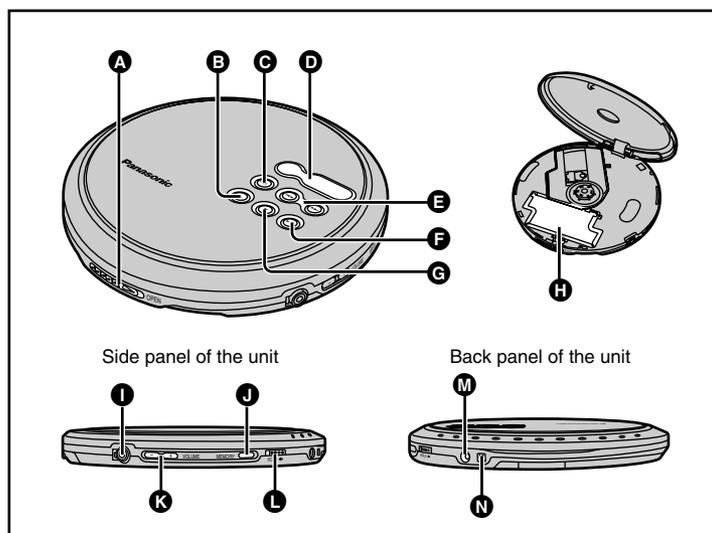
The programmed tracks are repeated.

Cancel (M)

Note

- You can select the first track to play in random play and random repeat play by pressing [▶▶] while the disc is stopped. All the tracks are played.
- You cannot select random play or random repeat play during program play.
- The resume function does not work when random or random repeat are on.
- The mode is canceled when you disconnect the power source.

Location of Controls



- A** Open switch (OPEN)
- B** EQ button (EQ)
- C** Mode button (MODE)
- D** Display
- E** Skip/search buttons (◀◀, ▶▶)
- F** Play/pause button (▶/||)
- G** Stop/operation off button (■)
- H** Rechargeable battery cover
- I** Headphone jack (🔊)
- J** Memory/recall button (MEMORY)
- K** Headphone volume control buttons (–, +, VOLUME)
- L** Hold switch (HOLD)
- M** DC IN jack (🔌 DC IN 4.5 V)
- N** Battery case terminals (EXT BATT)

Anti-Skip System

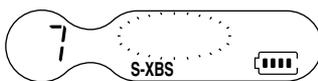
This system deals with skipping in a variety of ways:

- The thinner and lighter construction makes the unit less susceptible to vibration.
- An anti-skip mechanism prevents skipping caused when play speed changes due to swinging of the unit.
- A recovery system immediately returns the laser pick-up to its original position if it is knocked off the track by a strong shock.
- An anti-skip memory (max. 48 seconds) 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

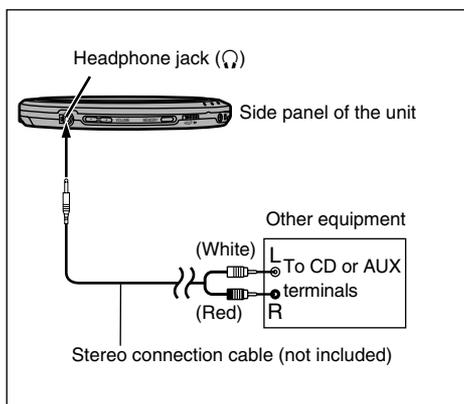
- The anti-skip memory compresses digital signals.
- While the system is on, the disc rotates at a higher rate than usual in collecting extra audio data. This could result in a slight increase in disc rotation noise.

Using the Unit with Optional Accessories

Using the unit with an audio system

Use a stereo connection cable (not included) to listen to CDs through your home audio system.

- Turn off the 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.
- Adjust the volume on the other equipment.
- Set this unit's volume 10.



Using the unit with a car audio system

Use only the specified car stereo cassette adaptor and car adaptor. Using other adaptors can cause overheating which can lead to fire.

The part numbers are indicated in parentheses.

Items to be purchased

For connection to the car audio system:
Car stereo cassette adaptor (SH-CDM10A)

Connect the car stereo cassette adaptor to the unit's headphone jack. Set this unit's volume to 10.

For connection to the power supply:
Car adaptor (SH-CDC9)

Note

- When you switch off the car, volume and sound quality may return to the original settings and the resume function may work even if you change the disc.
- 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.

ONLY FOR U.S.A.

Panasonic Consumer Electronics Company,
Division of Matsushita Electric Corporation of America
One Panasonic Way Secaucus, New Jersey 07094

Panasonic Sales Company, Division of Matsushita
Electric of Puerto Rico, Inc.
Ave. 65 de Infanteria, Km. 9.5
San Gabriel Industrial Park, Carolina, Puerto Rico 00985

Panasonic Portable Audio Limited Warranty

Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the Warrantor") will repair or replace this product with new or refurbished parts or equivalent product, free of charge in the U.S.A. or Puerto Rico, in the event of a defect in materials or workmanship as follows (all time periods commence from the date of original purchase) :

PARTS & LABOR - ONE (1) YEAR

Non-rechargeable batteries are not warranted

Rechargeable batteries - (when applicable) exchange defective item for new one for ten (10) days.

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.

If you have a problem with this product that is not handled to your satisfaction, then write to the Consumer Affairs Department at the Company address indicated above.

For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact:
1-800-211-PANA(7262), Monday - Friday 9 am - 9 pm, Saturday - Sunday 9 am - 7 pm, EST.

Web Site: http://www.panasonic.com
You can purchase parts, accessories or locate your nearest servicenter by visiting our Web Site.

This warranty is extended only to the original purchaser.

This warranty only covers failures due to defects in materials and workmanship which occur during normal use. The warranty does not cover damage which occurs in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accident, misuse, abuse, neglect, mishandling, faulty installation, mis-application, improper insertion of consumables, set-up adjustments, maladjustment of consumer controls, improper operation or maintenance, improper antenna, inadequate signal reception or pickup, alteration, modification, power line surge, improper voltage supply, lightning damage, commercial use or service by anyone other than a PANASONIC SERVICES COMPANY authorized repair facility, or damage that is attributable to acts of God.

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES OR DISCS) RESULTING FROM THE USE OF THIS PRODUCTS, OR ARISING OUT OF ANY BREACH OF THE WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Accessory Purchases:

1-800-332-5368 (Customer Orders Only)
Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032 (6 am to 5 pm Monday - Friday; 6 am to 10:30 am Saturday, PST)
(Visa, MasterCard, Discover Card, American Express, Check)

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.

User memo:

DATE OF PURCHASE _____
DEALER NAME _____
DEALER ADDRESS _____
TELEPHONE NUMBER _____

Product information

For product information or assistance with product operation:
In the U.S.A., contact the Panasonic Customer Call Center at 1-800-211-7262, or e-mail 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.

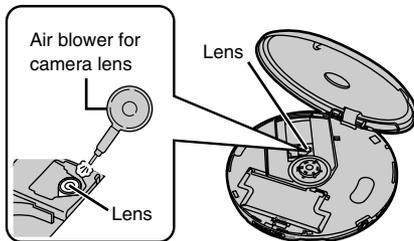
IF REPAIR IS NEEDED DURING THE WARRANTY PERIOD THE PURCHASER WILL BE REQUIRED TO FURNISH A SALES RECEIPT/PROOF OF PURCHASE INDICATING DATE OF PURCHASE, AMOUNT PAID AND PLACE OF PURCHASE. CUSTOMER WILL BE CHARGED FOR THE REPAIR OF ANY UNIT RECEIVED WITHOUT SUCH PROOF OF PURCHASE.

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

In Canada, contact Panasonic Canada Inc. Customer Care Centre at 905-624-5505, web site (www.panasonic.ca), or an authorized Servicentre close to you.

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)



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 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.

A nickel cadmium battery that is recyclable powers the product you have purchased. At the end of its useful life, under various state and local laws, it is illegal to dispose of this battery into your municipal waste stream. Please call 1-800-8-BATTERY for information on how to recycle this battery.



THE FOLLOWING APPLIES ONLY IN THE U.S.A.:

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.

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: Leave it there.

Rechargeable /dry cell batteries

- 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 makes 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 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 batteries in the battery carrying case.

When driving a car

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

Discontinue use if you experience discomfort with the headphones, earphones or any other parts that directly contact your skin. Continued use may cause rashes or other allergic reactions.

Specifications

Audio

No. of channels: 2 (left and right, stereo)
 Frequency response: 20 to 20,000 Hz
 (+0.5 dB to -10 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

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

Power consumption
 When using AC adaptor: 2.6 W
 When recharging: 4.8 W

Play time:

[When used in hold mode, with EQ canceled, at 25 °C (77 °F), on a flat, stable surface.]

Batteries used	Play time
2 alkaline batteries	About 50 hours
2 rechargeable batteries	About 12.5 hours
2 rechargeable and 2 alkaline batteries	About 62 hours

•The play time may be less depending on the operating conditions.

•Play time will be considerably reduced when playing CD-RW.

Recharging time: About 2 hours

Dimensions

(W×H×D): 130.5×16.9×135.5 mm
 (5¹/₈"×2¹/₃₂"×5¹/₃₂"

Mass: 189 g (6.7 oz.)(with batteries)
 143 g (5.0 oz.)(without batteries)

Power consumption in standby mode : 2.1 W

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:

In the U.S.A., contact the Panasonic Customer Call Center at 1-800-211-7262, or e-mail consumerproducts@panasonic.com, or web site (<http://www.panasonic.com>).

In Canada, contact Panasonic Canada Inc. Customer Care Centre at 905-624-5505, web site (www.panasonic.ca), or an authorized Servicentre close to you.

Problem	Check this
Cannot close the lid.	Is the disc properly secured in place?
Cannot play discs.	<ul style="list-style-type: none"> •Is the unit in HOLD mode? •Is the disc properly secured in place? •Is the disc dirty or scratched? •Is there condensation on the lens? (Wait for about an hour and then try again.)
Tracks on disc do not play in order, starting with the first track.	<ul style="list-style-type: none"> •Is the random play mode on? •Did you stop play in the middle of the disc last time?
Cannot hear music—too noisy.	<ul style="list-style-type: none"> •Has the headphone/earphone plug been inserted firmly? •Is the plug dirty? (Wipe away dirt on plug.) •Separate the unit from mobile phones.
TV picture is distorted. Radio reception is noisy.	Are you using the unit too near a TV or tuner? (Keep the unit away from the TV or tuner.)
Cannot recharge the batteries.	<ul style="list-style-type: none"> •Are you using the included batteries or the recommended replacements? •Ensure two batteries are inserted.