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.

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, benzine, thinner, static electricity prevention liquids or any other solvent.
• Do not attach labels or stickers to CD's. (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 CD's in their cases to protect them from dust, scratches, and warping.
• Do not place or store CD's 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

Memory Care

• Do not expose the unit to rain, dust, or smoke. Keep the unit away from fire, in a dry, cool place.
• Do not expose the unit to direct sunlight, extremely high temperatures or high humidity.

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.
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 lid and insert the two rechargeable batteries. Press to open in step 1.

3. Connect the AC adaptor.

   DC IN jack (5.4 V DC IN 4.5 V)

   Recharging starts. The main unit's recharging lamp (CHG) lights and the battery indicator on the remote control scrolls.

   Main unit

   Recharging lamp

   Remote control

   When the rechargeable batteries are fully recharged, the battery indicator disappears. (It takes approximately 5 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.

   • The rechargeable batteries should be changed when the unit is off.

   • 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.

Removing batteries

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

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.

Replacement

Nickel-metal hydride rechargeable batteries (HHR-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.

Note!

Turn the unit off before connecting or disconnecting the AC adaptor.

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.

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. 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 not loaded. Do not try to turn the plug after connecting it.

• If rechargeable 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 not loaded. Do not try to turn the plug after connecting it.

• The dry cell batteries should be charged when the unit is off.

If the unit malfunctions or freezes during use, disconnect the power source (the AC adaptor or batteries). Reconnect the power source and continue operation.

Panasonic
**Location of Controls**

**Portable CD player**
- A: Open switch (OPEN)
- B: Recharging lamp (CHG)
- C: Headphone jack (\(\hat{\text{\textbf{\textprime)}}\))
- D: Headphone volume control buttons (VOL \(-, +\))
- E: Play/pause button (\(\frac{1}{\text{\textprime)}}\))
- F: Stop/operation off button (\(\int\))
- G: Skip/search buttons (\(\lll, \rrr\))
- H: Hold switch (HOLD)
- I: DC IN jack (DC IN 4.5 V)
- J: Battery case terminal (EXT BATT)
- K: Rechargeable battery cover

**Wired remote control**
- A: Skip/search buttons (\(\lll, \rrr\))
- B: Volume control (+, −)
- C: Play/stop/operation off button (\(\frac{1}{\text{\textprime)}}\))
- D: Hold switch (HOLD)
- E: Display
- F: EQ button (EQ)
- G: Mode button (MODE)
- H: Memory/recall button (MEMORY)
- I: Clip
- J: Earphone jack

---

**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 mode*
- Release

You still can operate the unit with the remote control when the main unit's HOLD function is on and vice versa.

**“\(\lll, \rrr\)”/”\(\frac{1}{\text{\textprime)}}\)” indication**

When the unit is in hold mode:
Pressing any button causes the indication “\(\lll, \rrr\)” to appear on the remote control's display.
When the unit is powered off, the “\(\lll, \rrr\)” indication appears only when [\(\frac{1}{\text{\textprime)}}\)] is pressed.

When the remote control is in hold mode:
“\(\lll, \rrr\)” appears on the display.
When the unit is powered off, the “\(\lll, \rrr\)” indication appears only when [\(\frac{1}{\text{\textprime)}}\)] is pressed.

Before operating the buttons
Be sure to move [HOLD] to release the unit from the HOLD mode.
Follow steps 1–5.
In step 2: Connect the stereo headphones/earphones and wired remote control 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.)

Note
- 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 to 10, then adjust the volume level on the system.

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

Resume function
The player stores the track where you stopped play and if you press [ ] (main unit) or [ ] (remote control), play resumes from the beginning of that track.

Note
- 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 is automatic and you cannot turn it off.

For your reference:
“no disc” indication
This indication appears for about 30 seconds if [ ] (main unit) or [ ] (remote control) is pressed when no disc is loaded in the unit or if the disc is not properly secured.

“OP” indication
This indication appears for about 10 minutes when the lid is open. (However, the indication does not appear when the unit is powered off.)

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.
Using the remote control

■ Operation confirmation tones
   This tone sounds when a button on the remote control is pressed. Refer to the parentheses in the illustrations for the different types of confirmation tones.

■ Turning the operation tone on and off
   While stopped or during play
   Press and hold [EQ] for 5 seconds until the display appears.
   The tone sounds when the setting is changed.

   To turn the tone on
   \[\text{on} \quad \text{[EQ]} \quad \text{[EQ]}\]
   To turn the tone off
   \[\text{off} \quad \text{[EQ]} \quad \text{[EQ]}\]

■ The display light
   The light in the remote control's display comes on for about 5 seconds when you press a button, unless the hold function is on.
   To check the current display
   Change the position of the hold switch. The light comes on for about 5 seconds.

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.
Other Play Methods

The letters such as A in the illustrations refer to the descriptions in the “Location of Controls” section (See page 3.).

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.

Remote control only
Press during play or stop mode.

Changing the sound quality

Remote control only
Press during play or stop mode.

Program play

Up to 24 tracks can be entered in the program.

Preparation: Put unit in stop mode.
1 Select the desired track.

Remote control only
Press during play or stop mode.

Repeat play/Random play

Press during play or stop mode.

Repeat play

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.
Random (RANDOM)
The tracks play once in each 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 switches as shown below each time you press the button.
1-track repeat ( )
One track is repeated.
Random (RANDOM)
The tracks play once in each random order.
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.
- When [MODE] is pressed, the sound will be interrupted for an instant. This is normal and not indicative of a malfunction.
- The mode is canceled when you disconnect the power source.

Using the Unit with Optional Accessories

Using the unit with an audio system

- Turn off this unit and the other equipment before connection.
- To check the display connect the remote control to the headphone jack.
- 1 Connect the remote control to [ ] on the unit.
- 2 Connect the stereo connection cable to the remote control and the other equipment.
- Do not connect the cable to the PHONO jacks on the amplifier.
- 3 Turn the operation tones off (see page 5) so they are not heard when you press buttons on the remote control.
- 4 Set the volume to 10.
- Make further volume adjustments with the other equipment.

Note
- Obtain the optional connecting cable if the other equipment comes with mini-phone jacks.

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 may 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-COM10A)

Connect the car stereo cassette adaptor to the earphone jack of the remote control and connect it to the unit’s headphone jack. Set this unit’s volume to 10.

For connection to the power supply:
- Car adaptor (SH-CDC5)

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 stereo owing to restrictions imposed by the construction of the car stereo cassette adaptor.
- For further details, refer to the instructions of the part concerned.
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, free of charge, if found to be defective in materials or workmanship while being used normally. Warranty will be in effect up to the dates listed below, after which time it shall expire.

PARTS & LABOR - ONE (1) YEAR

Non-rechargeable batteries are not warranted.
Replacement 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 charged for the repair of any unit received without such proof of purchase.

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 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.

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.

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 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.
Specifications

**Audio**
No. of channels: 2 (left and right, stereo)  
Frequency response: 20 to 20,000 Hz  
DA converter: 1 bit, MASH  
Headphone output level: RMS max. 8 mW@16 Ω (adjustable)

**Pickup**
Light source: Semiconductor laser  
Wavelength: 780 nm

**General**
Operational temperature range: 0 °C to 40 °C  
Rechargeable temperature range: 5 °C to 40 °C  
Power supply: DC 4.5 V  
Power consumption: 2.6 W (When using AC adaptor)  
When charging: 4.8 W

**Battery**

<table>
<thead>
<tr>
<th>Batteries used</th>
<th>Play time</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 alkaline batteries</td>
<td>About 60 hours</td>
</tr>
<tr>
<td>2 rechargeable batteries</td>
<td>About 35 hours</td>
</tr>
<tr>
<td>2 rechargeable and 2 alkaline batteries</td>
<td>About 100 hours</td>
</tr>
</tbody>
</table>

Cautions

**Listening caution**
Do not play your headphones or earphones at a high volume. Hearing experts advise against continuous extended 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 you turn your headphones or earphones on. 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.

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.

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

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.
- Do not mix different types or makes of batteries or old and new batteries.
- Do not remove the batteries if you do not intend to use the unit for a long time.
- Do not put 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.

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.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Check this</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cannot close the lid.</td>
<td>Is the disc properly secured in place?</td>
</tr>
</tbody>
</table>
| Cannot play discs. | • 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. | • Is the random play mode on?  
| | • Did you stop play in the middle of the disc last time? |
| Cannot hear music---too noisy. | • Have the headphone/earphone and wired remote control plugs been inserted firmly?  
| | • Are the plugs 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. | • Are you using the included batteries or the recommended replacements?  
| | • Ensure two batteries are inserted. |

**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 communications, 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 the 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.