

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.**

Symptom	Checkpoints
No operation.	<ul style="list-style-type: none"> •The hold function is on. (page 2) •Make sure the battery cover is closed. •Make sure the battery is correctly inserted.
"U01" appears on the display.	<ul style="list-style-type: none"> •The battery has run down.
"2003" flashes.	<ul style="list-style-type: none"> •Set the clock. (page 3)
There is no sound from the earphone or it is difficult to hear or noisy.	<ul style="list-style-type: none"> •Ensure the plug is inserted firmly. •Wipe the plug clean.
Recording stops.	<ul style="list-style-type: none"> •VAS (page 4) may have functioned.
"- - -" appears instead of the recording date.	<ul style="list-style-type: none"> •Set the clock. (page 3)
Playback speed is too fast or slow.	<ul style="list-style-type: none"> •Set play speed to normal. (page 6)
"FULL" appears.	<ul style="list-style-type: none"> •There are 99 files in the folder. •There is no remaining recording time. - Erase unneeded files. (page 8)
No sound from the speaker.	<ul style="list-style-type: none"> •There is no sound when you have connected an earphone.
Cannot erase a file or folder.	<ul style="list-style-type: none"> •The file is locked. (page 8) •The folder is already empty.
Cannot move a file.	<ul style="list-style-type: none"> •You cannot move files to folders that already contain 99 files.
A recording disappeared.	<ul style="list-style-type: none"> •Recordings can disappear if the unit receives a shock (e.g. it is dropped), or if the battery and cover come loose during recording.
Available recording time does not increase correspondingly after erasing files.	<ul style="list-style-type: none"> •This can occur after repeatedly recording and erasing files. Unlock all your files, then erase all folders to remedy this.
Cannot set timer recording/playback.	<ul style="list-style-type: none"> •You can set the timers within 24 hours of the current time. •Set the clock. (page 3)
Timer recording/playback does not work.	<ul style="list-style-type: none"> •The settings are canceled if the battery is removed and the clock settings clear.
Cannot set timer recording/playback at the same time.	<ul style="list-style-type: none"> •When you set both, only the one you set last works.
Timer recording does not work.	<ul style="list-style-type: none"> •You cannot set the timer if there is less than one minute of available recording time.
Cannot use a battery that can be used on other equipment.	<ul style="list-style-type: none"> •This unit determines the battery empty even if there is actually life left in it. This is to preserve the clock and other memory items.
Cannot select a folder.	<ul style="list-style-type: none"> •Press [•FOLDER/▶MENU] briefly. You will enter the menu mode if you hold the button down for 2 or more seconds.

Maintenance

To clean this unit, wipe with a soft, dry cloth.

- Never use alcohol, paint thinner or benzine to clean this unit.
- Before using chemically treated cloth, read the instructions that came with the cloth carefully.

Panasonic®

IC Recorder Operating Instructions

Model No. **RR-QR150**
RR-QR153



Model RR-QR153 is only for the U.S.A.

Dear customer

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

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



Panasonic Consumer Electronics Company, Division of Matsushita Electric Corporation of America

One Panasonic Way Secaucus, New Jersey 07094
<http://www.panasonic.com>

Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc. ("PSC")
Ave. 65 de Infantería, Km. 9.5 San Gabriel Industrial Park, Carolina, Puerto Rico 00985

Panasonic Canada Inc.

5770 Ambler Drive, Mississauga, Ontario L4W 2T3

www.panasonic.ca

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F0103YH0

Specifications

Power output:	200 mW (max.)
Frequency response:	350 Hz – 4,300 Hz (HQ mode)
S/N:	38 dB (HQ mode)
Jack:	
Output jack;	Earphone, 3.5 mm (1/8 in.); 1.4 mW 16 Ω
Input jack;	Mic, 3.5 mm (1/8 in.); 0.56 mV plug in power
Speaker:	28 mm (1 1/2 in.) 8 Ω
Power requirement:	DC 3 V 2 AAA size (R03/LR03, UM-4) batteries
Dimensions (W×H×D):	
Max dimensions;	48.6 × 106.0 × 15.0 mm (1 15/16 × 4 3/16 × 9/16 in.)
Cabinet dimensions;	47.5 × 105.0 × 14.0 mm (1 7/8 × 4 1/8 × 1/2 in.)
Mass:	
with batteries;	About 64 g (2.2 oz.)
without batteries;	About 44 g (1.5 oz.)
Operational temperature range:	0 °C – 40 °C (32 °F – 104 °F)
Battery life:	[When used at 25 °C (77 °F) on a flat, stable surface]

Batteries	Playback	Recording
Panasonic alkaline batteries	About 18 hours	About 68 hours

- The battery life may be less depending on the operating conditions.

Note:

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

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 _____

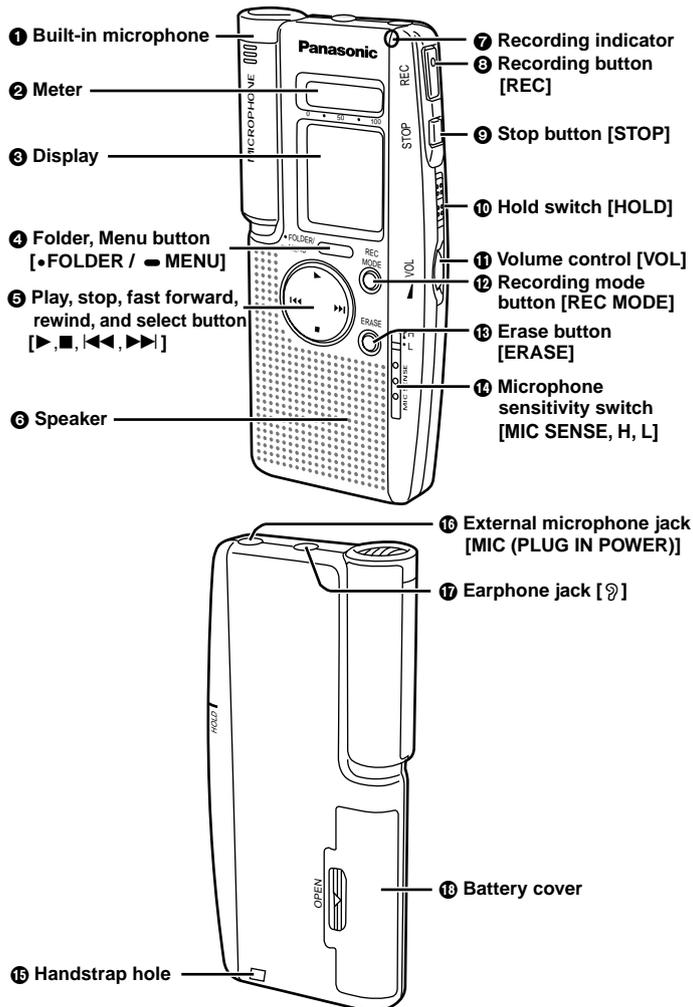
Supplied accessories

RR-QR153

External microphone (monaural)L0FBBA000002
 Soft caseRFC0075-K
 2 Alkaline dry cell batteries

• Use numbers indicated when asking for replacement parts.
To order accessories contact 1-800-332-5368 or web site
 (<http://www.panasonic.com>).

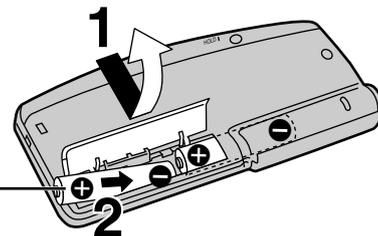
Control guide



Inserting the batteries

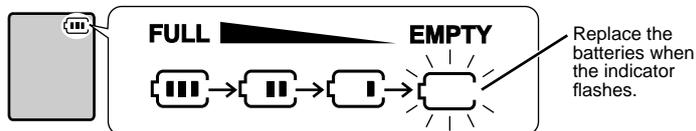
RR-QR150

Long life alkaline batteries are recommended.



• If rechargeable batteries are to be used, rechargeable batteries manufactured by Panasonic are recommended.

The battery indicator (displayed during operation)



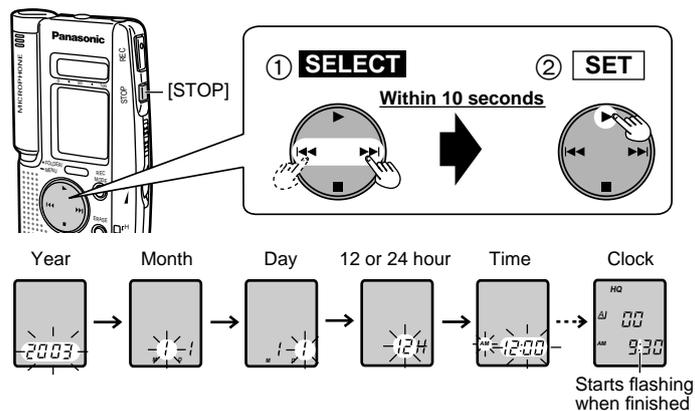
• Change the batteries within 30 seconds to preserve memory items.

Setting the time

The year (2003) starts flashing on the display after you insert a battery.
 (See "Correcting the time settings" below if it doesn't.)

Repeat the SELECT) SET steps to set the clock.

The clock has a monthly accuracy of +/- 60 seconds at room temperature.



Correcting the time settings

1. While stopped, press and hold [•FOLDER/•MENU] until the display changes.

Do each of the following within 10 seconds

2. Press [•FOLDER/•MENU] until the year (e.g. 2003) appears.

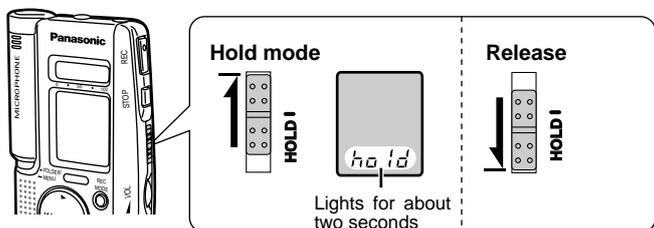
3. Follow the above steps to change the setting you want to correct.

• Start from the beginning again if the display returns to the clock partway through.

• Press [STOP] or [■] to stop partway through.

Hold function

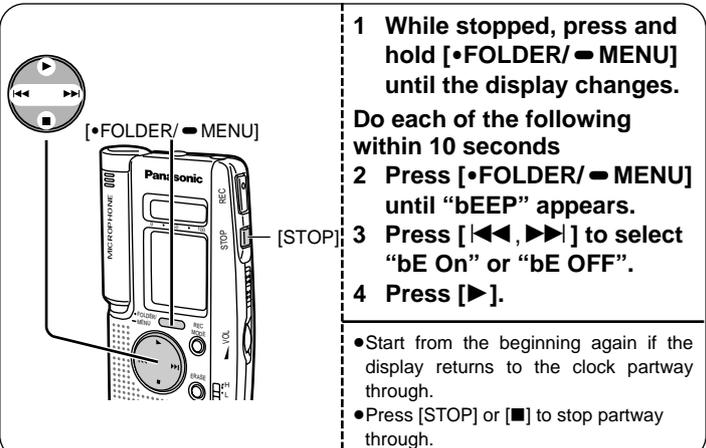
This causes the unit to ignore accidental button presses.

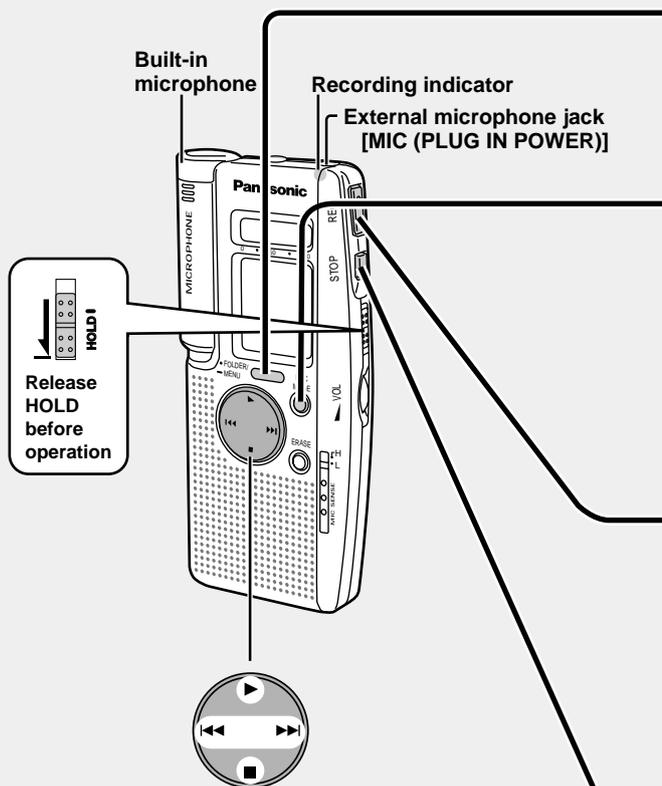


To save the batteries

While stopped, switch to hold so the display turns off.

Turning the operation beep on and off





Recording through the external microphone

The built-in microphone switches off.

RR-QR153

Connect the included microphone to the [MIC] jack.

RR-QR150

Use a condenser microphone without a built-in power supply.

Plug type: 3.5 mm (1/8 in.) monaural

Store files in 4 folders (A, B, C and D). Each folder holds up to 99 files.

1 Press [•FOLDER/•MENU] to select the folder.

Each time you press the button:

A) B) C) D
^ -----|



2 Press [REC MODE] to change the recording quality.

Each time you press the button:

HQ) SP) LP
^ -----|



Recording quality	Available recording time
HQ (High quality)	33 minutes
SP (Standard play)	65 minutes
LP (Long play)	210 minutes

•Use HQ or SP if the sound source is far away.

You can also change the microphone sensitivity and VAS setting. (See below)

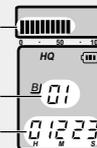
3 Press [REC] to start recording.

The recording indicator lights.

Each time you press [•FOLDER/•MENU]:

Recording time

Recording level



Available recording time

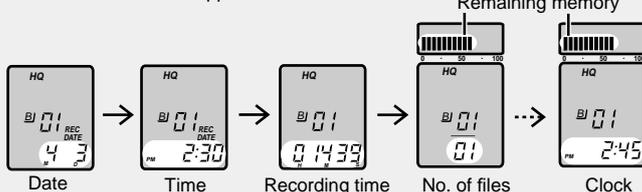
File number

•Available recording time also appears when the remaining time becomes very short.

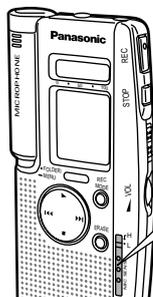
Available recording time

4 Press [STOP] (or [■]) to stop recording.

Information for the file appears one after the other:



Changing microphone sensitivity



H (High): Relatively soft sounds are recorded.



L (Low): Only relatively louder sounds are recorded. Use when recording close to the mouth.

Preventing unnecessary recording (VAS: Voice activated system)

VAS detects silence and pauses recording automatically. It is especially effective when microphone sensitivity is set to L.

1 While stopped, press and hold [•FOLDER/•MENU] until the display changes.

Do each of the following within 10 seconds

2 Press [•FOLDER/•MENU] until “☉” appears.

3 Press [◀▶] to select “On”.

4 Press [▶].

“☉” and recording indicator flash while VAS is waiting for a sound to record.

To turn the function off:

Select “OFF” in step 3.

•Start from the beginning again if the display returns to the clock partway through.

•Press [STOP] or [■] to stop partway through.

Timer recording

Preparation: Select the folder and recording quality (Steps 1 and 2 above).

1 While stopped, press and hold [•FOLDER/•MENU] until the display changes.

Do each of the following within 10 seconds

2 Press [•FOLDER/•MENU] until “REC☉” appears.

3 Press [◀▶] to select “On”.

4 Press [▶].

5 Set the times.

① Press [◀▶] to change the start time.

② Press [▶].

③ Press [◀▶] to change the end time.

④ Press [▶].

When finished, the display changes in the following order:

ON time # OFF time # Current number of files # Clock

“REC☉” flashes during recording and goes out when finished. (The setting is also canceled.)

To check the timer settings:

1 While stopped, press and hold [•FOLDER/•MENU] until the display changes.

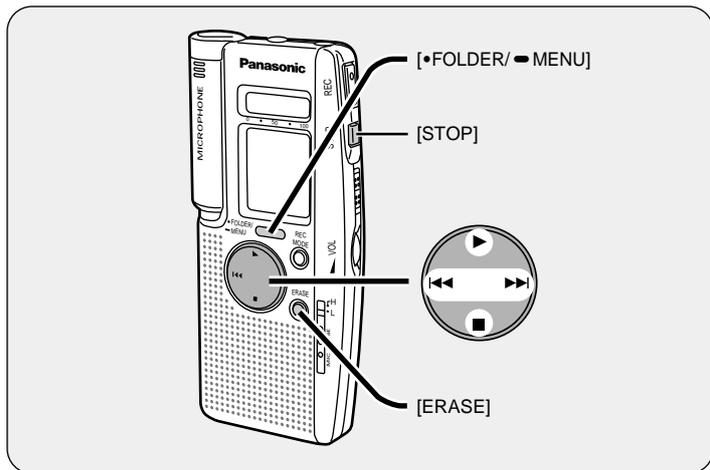
2 Within 10 seconds, press [•FOLDER/•MENU] until “REC☉” appears.

To cancel the timer:

Select “OFF” in step 3.

•Start from the beginning again if the display returns to the clock partway through.

•Press [STOP] or [■] to stop partway through.



Locking files

- 1 While stopped, press [**•FOLDER/≡MENU**] to select the folder.
- 2 Press and hold [**•FOLDER/≡MENU**].



Do each of the following within 10 seconds

- 3 Press [**◀▶▶▶**] to select the file.
- 4 Press [**▶**].

To unlock:

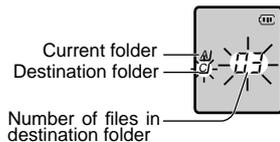
Do the above steps and select the file you want to unlock in step 3 and press [**▶**]. "LOCK" goes out.

Moving files

- 1 While playing the file you want to move, press and hold [**•FOLDER/≡MENU**] until the display starts flashing.

Do each of the following within 10 seconds

- 2 Press [**•FOLDER/≡MENU**] to select the folder you want to move the file to.



- 3 Press [**▶**].

Erasing files

You cannot restore files you erase.

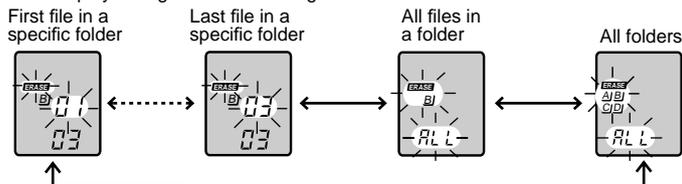
- 1 While stopped, press [**•FOLDER/≡MENU**] to select the folder (start from step 2 during play).
- 2 Press and hold [**ERASE**] until the display starts flashing.



Do each of the following within 10 seconds

- 3 Press [**◀▶▶▶**] to select the file you want to erase.

The display changes in the following order:



- 4 Press [**ERASE**].

- Start from the beginning again if the display returns to the clock partway through.
- Press [**STOP**] or [**■**] to stop partway through.

Unit

- Avoid using or placing this unit near sources of heat. Do not leave it in an automobile exposed to direct sunlight for a long period of time with the doors and windows closed.
- To avoid product damage, do not expose this product to rain, water or other liquids.
- Do not keep this unit and magnetized cards (bank cards, commuter passes, etc.) close together.
- The speaker does not have magnetic shielding. Do not place it near televisions, personal computers or other devices easily influenced by magnetism.

Batteries

- 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 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.
- Mishandling of batteries can cause electrolyte leakage which can damage items the fluid contacts and may cause a fire. If electrolyte leaks from the batteries, consult your dealer. Wash thoroughly with water if electrolyte comes in contact with any part of your body.

Allergies

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

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.

This product may receive radio interference caused by mobile telephones or other products during operation. If such interference is apparent, please increase separation between the product and the mobile telephone or other product.

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.

Product service

1. **Damage requiring service**—The unit should be serviced by qualified service personnel if:
 - (a) Objects or liquids have gotten into the unit; or
 - (b) The unit has been exposed to rain; or
 - (c) The unit does not operate normally or exhibits a marked change in performance; or
 - (d) 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>).

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

User memo:

DATE OF PURCHASE _____
 DEALER NAME _____
 DEALER ADDRESS _____

 TELEPHONE NUMBER _____

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 Infantería, Km. 9.5
 San Gabriel Industrial Park, Carolina, Puerto Rico 00985

ONLY FOR U.S.A.

Panasonic Audio Products Limited Warranty

Limited Warranty Coverage

If your product listed below does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

Product or Part Name	Parts	Labor
Radio, Clock Radio, Radio with Tape Player or Recorder, Portable CD Player, Headphone Stereo, Tape Recorder, Speaker	One (1) Year	One (1) Year
Rechargeable batteries (in exchange for defective item)	Ten (10) Days	Not Applicable
SD Memory Card (in exchange for defective item)	Ninety (90) Days	Not Applicable

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must mail-in your product during the warranty period. This Limited Warranty excludes both parts and labor for batteries, antennas, and cosmetic parts (cabinet). This warranty only applies to products purchased and serviced in the United States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is". A purchase receipt or other proof of the original purchase date is required for warranty service.

To obtain service in the USA please contact:

Panasonic Services Company, Panasonic Plus Department
 20421 84th Avenue South
 Kent, WA 98032
 Tel: 1-800-833-9626 Fax: 1-800-237-9080

For assistance in Puerto Rico call Panasonic Sales Company (787)-750-4300 or 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.

Customer Services Directory

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 servicer by visiting our Web Site.

Limited Warranty Limits And Exclusions

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a Factory Servicer or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY.

(As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the servicer, loss of or damage to media or images, data or other memory or recorded content. The items listed are not exclusive, but are for illustration only.)

ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.

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 exclusions 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. If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicer. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.

Service in Puerto Rico
 Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company/Factory Servicer:
 Ave. 65 de Infantería, Km. 9.5. San Gabriel Industrial Park, Carolina, Puerto Rico 00985
 Phone (787) 750-4300 Fax (787) 768-2910

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)