

Panasonic®

Operating Instructions CD Stereo System

Model No. **SC-EN17**



These instructions are applicable to the following systems.

System	SC-EN17
Main unit	SA-EN17
Speakers	SB-EN17

SC-EN17 for U.S.A. and Canada is used in the illustrations unless otherwise mentioned.

Dear Customer

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

Troubleshooting guide

Before requesting service, make the following checks. If you are in doubt about any of the check points, or if the solutions indicated in the chart do not solve the problem, refer to the "Customer Services Directory" on page 8 if you reside in the U.S.A., or refer to the "Product information" on page 7 if you reside in Canada. In other areas, consult your dealer.

No play.	<ul style="list-style-type: none"> The disc isn't correctly set. The disc is scratched or dirty. (Tracks skipped.) There is moisture on the lens. Wait for about an hour and then try again.
MP3 cannot be read.	<ul style="list-style-type: none"> You may not be able to play MP3 if you have copied a multi-session disc that has no data between sessions. When creating a multi session disc, it is necessary to close the session. The amount of data on the disc is too small. Set the amount of data to greater than approximately 5 MB.
Sound is unfixed, reversed or comes from one speaker only.	<ul style="list-style-type: none"> Check the speaker connections. (→ page 2)
No sound or there is a lot of noise.	<ul style="list-style-type: none"> Noise may occur when playing MP3 if recording quality is poor. Keep this unit away from mobile telephones. Turn the volume up. Switch the unit off, determine and correct the cause, then switch the unit on. Causes include shorting of the positive and negative speaker wires, straining of the speakers through excessive volume or power, and using the unit in a hot environment.
Humming heard during play.	<ul style="list-style-type: none"> An AC power supply cord or fluorescent light is near the cords. Keep other appliances and cords away from this unit's cords.

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

A beat sound is heard while receiving a radio broadcast.	<ul style="list-style-type: none"> Switch the TV off or separate it from the unit.
A low hum or noise is heard during AM broadcasts.	<ul style="list-style-type: none"> Keep the antenna away from other cables and cords. Keep the AM antenna away from the unit.
The picture on the television near the set disappears or stripes appear on the screen.	<ul style="list-style-type: none"> The location and orientation of the antenna are incorrect. The TV antenna wire is too close to the unit. Separate the antenna wire of the TV set from the unit.
Remote control doesn't work.	<ul style="list-style-type: none"> Check that the batteries are inserted correctly. (→ page 2) Replace the batteries if they are worn.

Display

--:--	<ul style="list-style-type: none"> You plugged the AC power supply cord in for the first time or there was a power failure recently. Set the time. (→ page 5) The total programmed play time is more than 200 minutes. Tracks can still be programmed and played.
PGM FULL	<ul style="list-style-type: none"> The number of programmed tracks is limited to 24. No further tracks can be programmed.
NOT MP3	<ul style="list-style-type: none"> A CD-ROM disc that is not CD-DA or MP3 format is inserted. It cannot be played.
ERROR	<ul style="list-style-type: none"> Incorrect operation performed. Read the instructions and try again.
F76	<ul style="list-style-type: none"> There is a power supply problem. Consult the dealer.

Panasonic Consumer Electronics Company, Division of Panasonic Corporation of North America
One Panasonic Way Secaucus, New Jersey 07094
<http://www.panasonic.com>

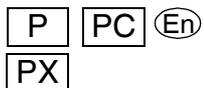
For units with PX printed on the outer packaging

Matsushita Electric Industrial Co., Ltd. Corporate Management Division for the Americas Sales Office for North America Tokyo Panasonic Sales Section

32nd Floor, World Trade Center 4-1, Hamamatsu-cho, 2-Chome, Minato-Ku, Tokyo 105-6132, Japan

Panasonic Puerto Rico, Inc.
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



Supplied accessories

 Use the numbers indicated in parentheses when asking for replacement parts.

In U.S.A. to order accessories, refer to "Accessory Purchases" on page 8.

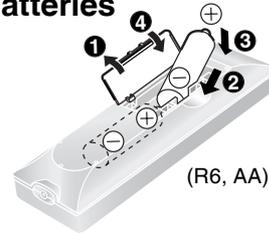
- 1 Remote control (EUR7711170)
 - 2 Batteries
 - 1 AM loop antenna (G0ZZ00002036)
 - 1 Power plug adaptor (For units with PX printed on the outer packaging) (RJP1SG05-Z)
 - 1 AC power supply cord
- For U.S.A. and Canada** (RJA0065-1D) **For units with PX printed on the outer packaging** (RJA0019-D)

Note

The included AC power supply cord is for use with this unit only. Do not use it with other equipment.

The remote control

Batteries



- Insert so the poles (+ and -) match those in the remote control.
- Do not use rechargeable type batteries.

Use



Remote control signal sensor

- Aim at the sensor, avoiding obstacles, at a maximum range of 7 m directly in front of the unit.
- Operation can be affected by strong light sources, such as direct sunlight, and the glass doors on cabinets.

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.

Placement of speakers

You can remove the speaker cover.

Note

- Keep your speakers at least 10 mm (13/32") away from the system for proper ventilation.
- These speakers do not have magnetic shielding. Do not place them near televisions, personal computers or other devices easily influenced by magnetism.
- To avoid damage to the speakers, do not touch the speaker cones if you have taken the covers off.



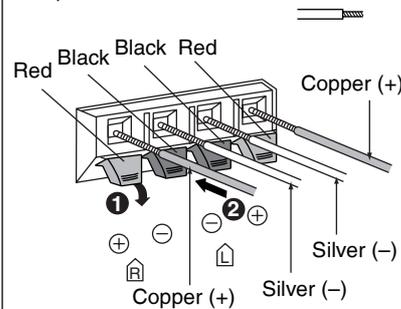
Caution

- Use the speakers only with the recommended system. Failure to do so may lead to damage to the amplifier and/or the speakers, and may result in the risk of fire. Consult a qualified service person if damage has occurred or if you experience a sudden change in performance.
- Do not attach these speakers to walls or ceilings.

Connections

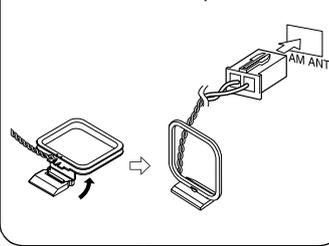
1 Speakers

Before connecting, twist off the tip.



2 AM loop antenna

Stand the antenna up on its base.

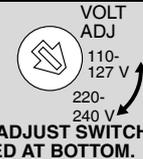


3 AC power supply cord

For units with PX printed on the outer packaging

Voltage setting

Set the voltage selector to the voltage setting for the area in which the unit will be used.
110-127 V / 220-240 V



Note

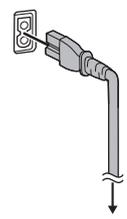
This unit will be seriously damaged or fail to operate correctly if this setting is not made correctly.

Power plug

If the power plug will not fit your socket, use the power plug adaptor (included).



Connect the AC power supply cord only after all other connections have been made.



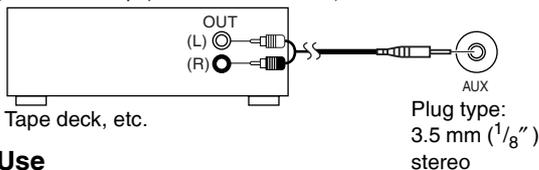
To household AC outlet

Conserving power

The unit consumes power even when it is turned off with [POWER/OFF]. To save power when the unit is not to be used for a long time, unplug it from the household AC outlet. If the unit is left unplugged for longer than approximately two weeks, all settings will revert to the factory settings. Remember to reset the radio stations and any other memory items before using the unit again.

Other equipment

(Cords and equipment not included.)



Use

Remote control

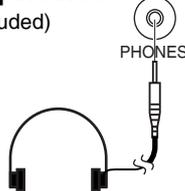
Select "AUX"  Start Playback from the other source.

Note

- An analog player with a built-in phono equalizer can be connected.
- For details, refer to the instruction manual of the other equipment.

Headphones

(Not included)



Reduce the volume before connection. Plug type: 3.5 mm (1/8 inch) stereo

Note

Avoid listening for prolonged periods of time to prevent hearing damage.

The socket outlet shall be installed near the equipment and easily accessible or the mains plug or an appliance coupler shall remain readily operable.

CD operations

1 Insert the CD.

Main unit **Remote control**

■/▲ OPEN/CLOSE

You cannot use an 8 cm (3") disc.

The unit comes on and the CD lid opens.

Label must face outward.

Put the CD in the pocket.

Press [▲] again to close.

Keep fingers away from the CD lid when it is closing to avoid possible minor injury.

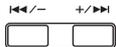
To turn on the unit



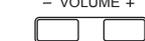
To stop play



To skip/search



To adjust the volume



0 (Minimum) 50 (Maximum)

2 Start play.

Main unit **Remote control**

CD \triangleright /II

Elapsed playing time of track
Track number

1 0:01

Note
If the CD is already in the unit, the unit comes on and play begins.
(One touch play)

1

Input using the numbered buttons
To select a 2-digit number
e.g. 16: [≥10] → [1] → [6]
To select 3-digit number
e.g. 226:
[≥10] → [≥10]
→ [2] → [2] → [6]

2

To adjust the volume

Stop

Main unit **Remote control**

■/▲

Number of tracks
Total play time

14 40:21

Number of albums
Number of tracks

MP3 ALBUM TRACK

2 10

Pause

Main unit **Remote control**

CD \triangleright /II

CD \triangleright /II

10 32:15

Press again to resume play.

Skip/Search

Main unit **Remote control**

⏮/⏪ ⏩/⏭

⏮ ⏩

Press to skip/
Press and hold to search

Note

- You can search during play or while paused.
- You cannot search through MP3 files.
- You can only search within the current track during program play, one track repeat, and random play.

Direct access play

Play starts with the track you select.



Select the desired track

Repeat play/ random play

1-↻: One track repeat
↻: All track repeat
RND: Random play

PLAY MODE

Select the play mode

• Each time you press the button:
1-↻ → ↻ → RND
(While stopped)
No display (Canceled)

Note

- During random play, you cannot skip to the previous track.
- You cannot select "RND" while playing MP3.
- You cannot use random play and program play at the same time.

Program play

This function allows you to program up to 24 tracks.

PGM/CLEAR -AUTO PRESET

Press while stopped

PGM

Select tracks (Maximum 24 tracks)

Track number

6 01

Sequence number

Track number

6 40:1

Total play time

(CD only)

Start play

• **Erase a program** (While stopped)



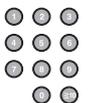
Note

Program contents are stored in the unit's memory even after changing to a different function or turning the unit off. All program contents are erased by pressing [PGM/CLEAR] or by opening the CD lid.

• **Confirm a programmed track** (While stopped)



• **Add a program track** (While stopped)



Select the track you want to add

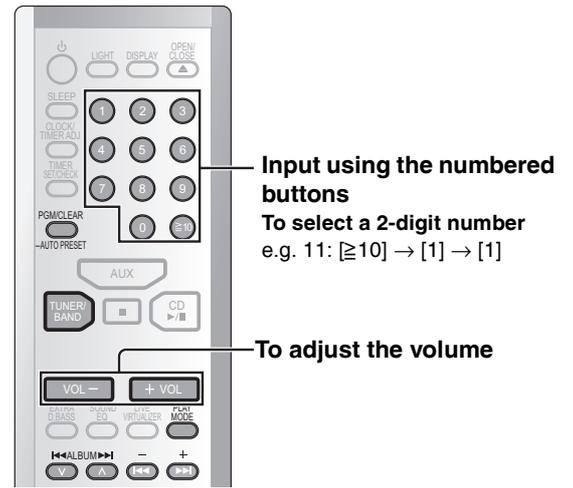
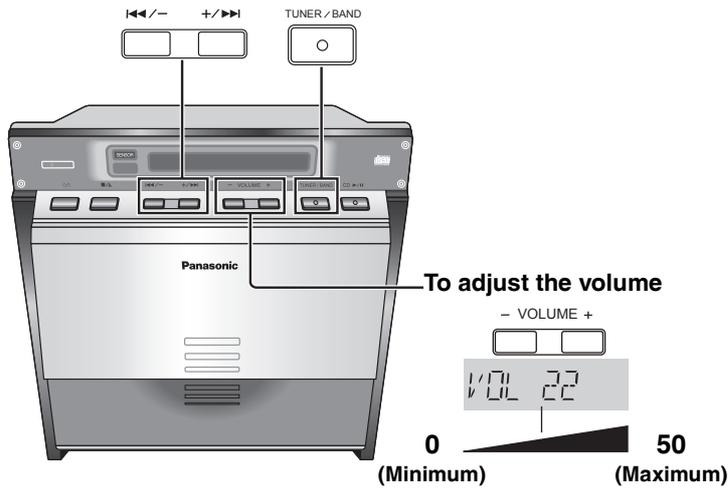
Note

- You cannot use random play and program play at the same time.

Refer to page 6 regarding MP3 play.

Radio operations

Radio stations can be tuned manually by selecting the station's frequency or they can be preset into channels to make it easy to tune. You can preset up to 20 FM channels and up to 12 AM channels.



Allocation settings

Each country allocates broadcast bands according to their particular system.

For U.S.A. and Canada

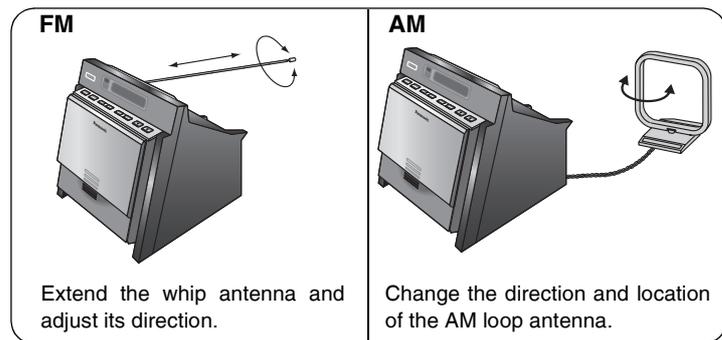
You can change the FM step. The step is factory-set to 0.2 MHz, but you can change it to receive broadcasts allocated 0.1-MHz steps. Any FM frequencies preset in channels will be changed by this procedure. Preset them again.

For units with PX printed on the outer packaging

You can change the AM step. The step is factory-set to 10 kHz, but you can change it to receive broadcasts allocated 9-kHz steps. Any AM frequencies preset in channels will be changed by this procedure. Preset them again.

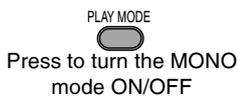
- Select the opposite band from the one you are going to change with [TUNER/BAND].**
 - Press and hold [TUNER/BAND] on the unit.**
After a few seconds the display changes to show the current minimum frequency. Continue to hold the button down. The minimum frequency changes and the step is changed.
- To return to the original step, repeat the above steps.

To improve reception

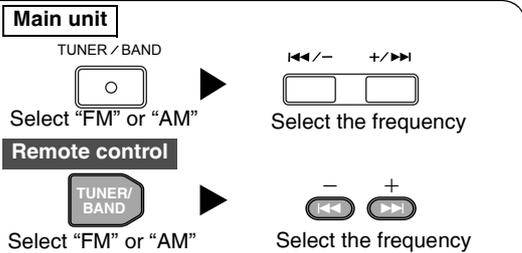


If noise is excessive in FM

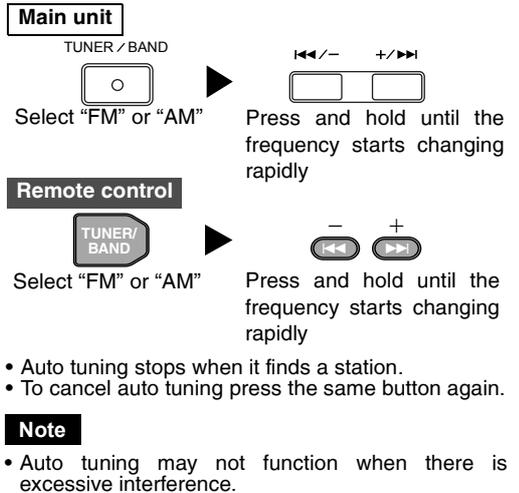
You can improve FM reception by switching reception to monaural.



Manual tuning

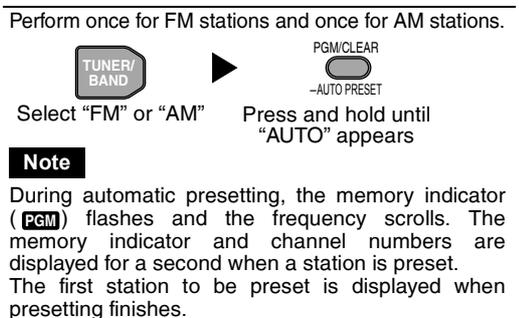


Auto tuning



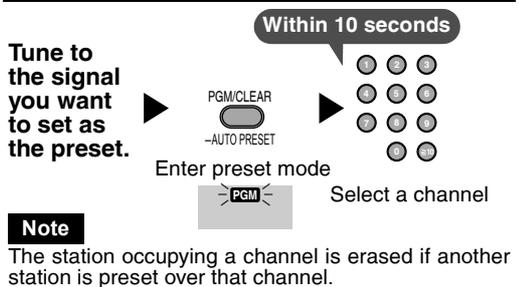
Automatic presetting

The tuner presets the stations it can receive into channels in ascending order.

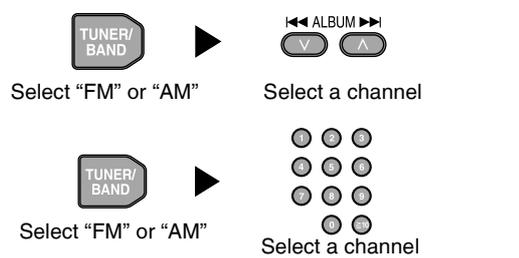


Manual presetting

Preset the stations one at a time.



Selecting channels

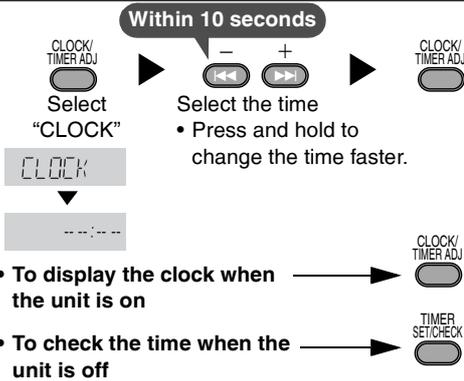


Timers and others



Setting the time

This is a 12-hour clock.

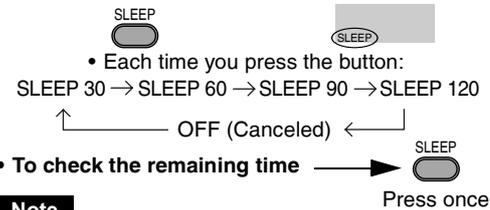


Note

The clock is accurate to within ±60 seconds a month. Readjust if necessary.

SLEEP timer

The SLEEP timer can turn the unit off after a set time.

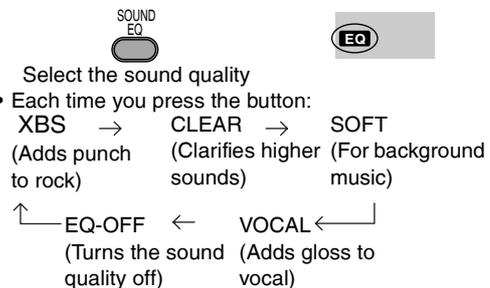


Note

The play timer and sleep timer can be used together. The sleep timer always has priority. Be sure not to overlap timer settings.

Sound quality

You can choose one of four types of sound quality.



Live Virtualizer

You can create a three-dimensional sound field when listening to stereo sound.



Note

The actual effect depends on the source played.

Extra D.Bass

Boosts the bass.



Play timer

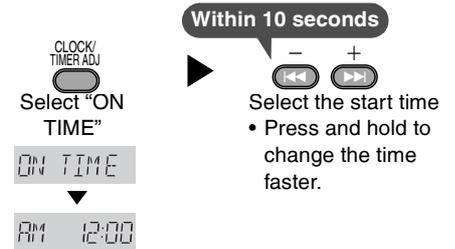
This timer starts play of the selected source at the selected time.

Preparation: Set the clock (see left).

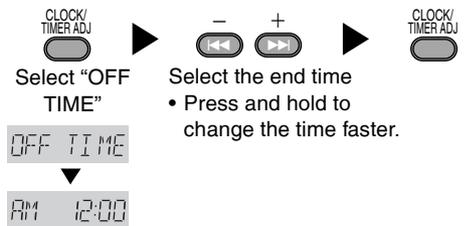
1 Perform timer settings

① Set the start time

While the time is displayed



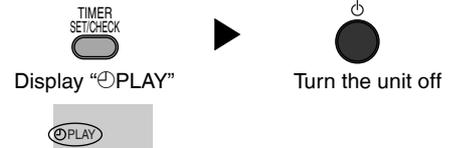
② Set the end time



2 Select the source and adjust the volume



3 Turn the timer on

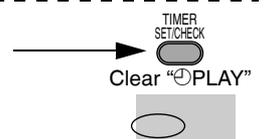


The unit must be off for the timer to operate.

Note

You can enjoy any sources while the play timer is set.

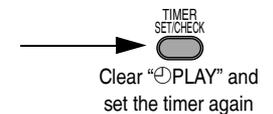
• To cancel the timer while the unit is on



Note

The timer function will be canceled, but the settings stay in the memory. The timer comes on every day if the timer is on.

• To change the timer



• To check the setting while the unit is off



Note

• If you turn the unit off and on again while the timer is functioning, the finish time setting will not be activated.
• When the "AUX" source is selected, set the timer on the connected equipment to the same time.

Display

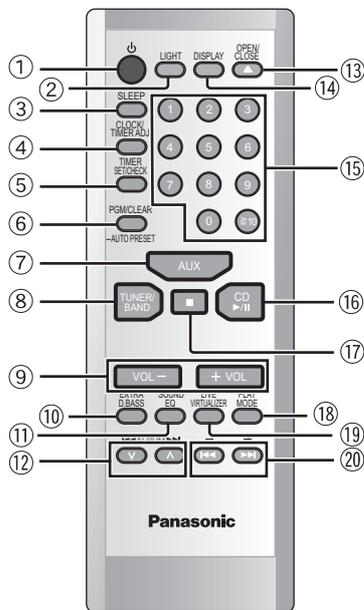
You can change the display.



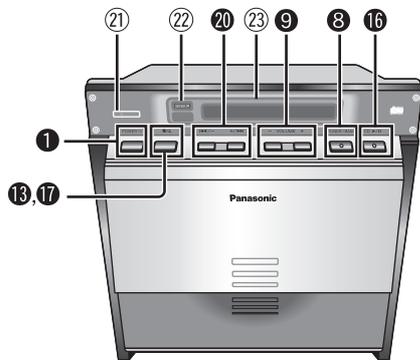
The following types of information are displayed.

- Original display
- MP3 album title display
- MP3 track title display
- Time display

Control guide



The shaded buttons, such as ①, function in the same way as the buttons on the remote control.



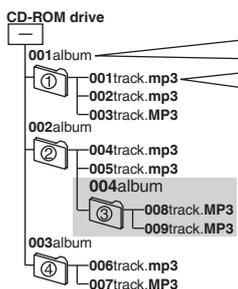
- ① **Standby/on switch** [⏻, POWER ⏻/⏻] 3
Press to switch the unit from on to standby mode or vice versa.
In standby mode, the unit is still consuming a small amount of power.
- ② **Light button** [LIGHT]
Turn on and off the light of display for better viewing in a darkened room.
The factory setting is ON.
- ③ **SLEEP timer button** [SLEEP] 5
- ④ **Clock/timer adjust button** [CLOCK/TIMER ADJ] 5
- ⑤ **Timer set/check button** [TIMER SET/CHECK]..... 5
- ⑥ **CD program/clear, tuner preset button** [PGM/CLEAR, -AUTO PRESET] 3, 4
- ⑦ **AUX button** [AUX]..... 2
- ⑧ **Tuner/band select button** [TUNER/BAND] 4
- ⑨ **Volume buttons** [VOL -, + VOL, - VOLUME +] 3
- ⑩ **Extra D.Bass button** [EXTRA D.BASS] 5
- ⑪ **Sound EQ button** [SOUND EQ] 5
- ⑫ **Album skip, preset channel select buttons** [V, ^, ◀◀ ALBUM ▶▶]..... 4, 6
- ⑬ **CD open/close button** [▲, OPEN/CLOSE] 3
- ⑭ **Display button** [DISPLAY]..... 5
- ⑮ **Numbered buttons** [1-9, 0, ≥10]..... 3
- ⑯ **CD play/pause button** [▶/|| CD]..... 3
- ⑰ **CD stop button** [■]..... 3
- ⑱ **Play mode button** [PLAY MODE]..... 3, 4, 6
- ⑲ **Live virtualizer button** [LIVE VIRTUALIZER]..... 5
- ⑳ **CD skip/search, frequency select, time adjust buttons** [◀◀, ▶▶, -, +, ◀◀-/+▶▶] 3, 4, 5
- ㉑ **Standby indicator**
When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.
- ㉒ **Remote control signal sensor**
- ㉓ **Display**

MP3 operations

This unit can play MP3, a method of compressing audio without overtly hurting audio quality.

When creating MP3 files to play on this unit

- Maximum number of tracks and albums: 999 tracks and 256 albums.
- Compatible compression rate: Between 64 kbps and 320 kbps (stereo). 128 kbps (stereo) is recommended.
- Disc formats: ISO9660 level 1 and level 2 (except for extended formats).
- It is better not to create folders (album) within folders (004album below).



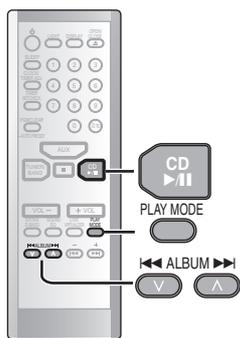
Naming tracks and albums

Prefix with 3-digit numbers in the order you want to play

Extension
001track.mp3 (or.MP3)

Up to 31 characters for tracks and albums

If you created an album such as 004album on the left, the files may not play in order. The albums would play in the order ①, ②, ③, ④.

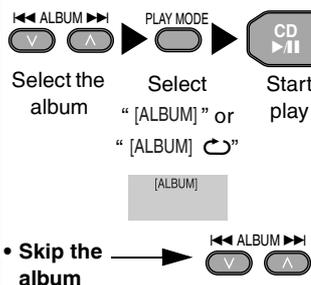


Album play

You can listen to tracks within albums.

[ALBUM] : Album play

[ALBUM] ◀: Album repeat



Limitations on MP3

- This unit is compatible with multi-session but if there are a lot of sessions it takes more time for play to start. Keep the number of sessions to a minimum to avoid this.
- This unit cannot play files recorded using packet write.
- If the disc includes both MP3 and normal audio data (CD-DA), the unit plays the type recorded in the inner part of the disc. If the disc includes both MP3 and other types of audio data (e.g. WMA or WAV), the unit plays only the MP3.
- Depending on how you create MP3 files, they may not play in the order you numbered them or may not play at all.
- Upper case alphanumeric characters and an underbar “_” can be displayed on this unit. Lower case characters are converted to upper case.

Regarding CDs

Note on CD-R and CD-RW

This unit can play CD-R and CD-RW recorded with CD-DA or MP3. Use an audio recording disc for CD-DA and finalize* it when you finish recording. The unit may not be able to play some discs due to the condition of the recording.

*A process performed after recording that enables CD-R/CD-RW players to play audio CD-R and CD-RW.

Caution

Choose discs with this mark:
Do not;



- use irregularly shaped CDs.
- attach extra labels and stickers.
- use CDs with labels and stickers that are coming off or with adhesive exuding from under labels and stickers.
- attach scratch-proof covers or any other kind of accessory.
- write anything on the CD.
- clean CDs with liquids (Wipe with a soft, dry cloth.).

Note about using a DualDisc

- The digital audio content side of a DualDisc does not meet the technical specifications of the Compact Disc Digital Audio (CD-DA) format so play may not be possible.
- Do not use a DualDisc in this unit as it may get scratched or scraped.

IMPORTANT SAFETY INSTRUCTIONS

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

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



Listening caution



Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion—and, most importantly, without affecting your sensitive hearing.

We recommend that you avoid prolonged exposure to excessive noise.

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.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

User memo:

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

Product Service

1. **Damage requiring service** — The unit should be serviced by qualified service personnel if:
 - (a) The AC power supply cord or the plug 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. The servicer will require all components to service your system. Therefore, should service ever be necessary, be sure to bring the entire system.

Product information

For product information or assistance with product operation: In the U.S.A., refer to "Customer Services Directory" on page 8. In Canada, contact the Panasonic Canada Inc. Customer Care Centre at 905-624-5505, or visit the website (www.panasonic.ca), or an authorized Servicentre closest to you.

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 _____

Specifications

Main unit

Radio
Frequency range
(For U.S.A. and Canada)
FM 87.9–107.9 MHz (200 kHz steps)
 87.5–108.0 MHz (100 kHz steps)
 520–1710 kHz (10 kHz steps)
AM
(For units with PX printed on the outer packaging)
FM 87.50–108.00 MHz (50 kHz steps)
AM 520–1710 kHz (10 kHz steps)
 522–1629 kHz (9 kHz steps)

CD player
Sampling frequency 44.1 kHz
Decoding 16 bit linear
Beam source Semiconductor laser (wavelength 780 nm)
Number of channels 2 channel, stereo
Wow and flutter Less than possible measurement data
D/A converter MASH (1 bit DAC)
Terminals
Input AUX: 3.5 mm stereo (27 kΩ)
Output PHONES: 3.5 mm stereo (32 Ω)

General
Power supply
(For U.S.A. and Canada) AC 120 V, 60 Hz
(For units with PX printed on the outer packaging) AC 110-127 V / 220-240 V, 50/60 Hz

Power consumption
(For U.S.A. and Canada) 28 W
(For units with PX printed on the outer packaging) 26 W

Dimensions (W×H×D) 206 mm×204 mm×214 mm
 (8¹/₈" × 8¹/₃₂" × 8⁷/₁₆")

Mass
With speakers
(For U.S.A. and Canada) 4.0 kg (8 lb. 13 oz.)
(For units with PX printed on the outer packaging) 4.2 kg (9 lb. 4 oz.)

Without speakers
(For U.S.A. and Canada) 2.4 kg (5 lb. 5 oz.)
(For units with PX printed on the outer packaging) 2.6 kg (5 lb. 12 oz.)

Speakers

Full range
(For U.S.A. and Canada) 8 cm (3¹/₈"), 6 Ω×2
(For units with PX printed on the outer packaging) 8 cm (3¹/₈"), 12 Ω×2

Ceramic tweeter 1.52 cm (1⁹/₃₂") × 2
Dimensions (W×H×D) 115 mm×211 mm×215 mm
 (4¹⁷/₃₂" × 8⁵/₁₆" × 8¹⁵/₃₂")

Power consumption in standby mode:
(For U.S.A. and Canada) 3.4 W
(For units with PX printed on the outer packaging) 3.7 W

Note

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

MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia.

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!

- DO NOT INSTALL OR PLACE THIS UNIT IN A BOOKCASE, BUILT-IN CABINET OR IN ANOTHER CONFINED SPACE. ENSURE THE UNIT IS WELL VENTILATED. TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING, ENSURE THAT CURTAINS AND ANY OTHER MATERIALS DO NOT OBSTRUCT THE VENTILATION VENTS.
- DO NOT OBSTRUCT THE UNIT'S VENTILATION OPENINGS WITH NEWSPAPERS, TABLECLOTHS, CURTAINS, AND SIMILAR ITEMS.
- DO NOT PLACE SOURCES OF NAKED FLAMES, SUCH AS LIGHTED CANDLES, ON THE UNIT.
- DISPOSE OF BATTERIES IN AN ENVIRONMENTALLY FRIENDLY MANNER.

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.

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

Notice:

This product has parts that contains a small amount of mercury. Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information please contact your local authorities, or the Electronics Industries Alliance: <<http://www.eiae.org>>

THE FOLLOWING APPLIES ONLY IN THE U.S.A. AND CANADA

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE SCREWS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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.

For units with PX printed on the outer packaging

THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

For units with PX printed on the outer packaging

CAUTION:

Change the voltage setting to suit the AC voltage in your area. See page 2. Note that the unit will be seriously damaged or fail to operate if this setting is not made correctly.

CAUTION	INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM. (IEC60825-1 Class 3b)
ATTENTION	RAYONNEMENT LASER INVISIBLE DANGEREUX EN CAS D'OUVRETTURE ET, LORSQUE LA SECURITE EST NEUTRALISEE, EXPOSITION DANGEREUSE AU FASCEAU.
ADVARSEL	USYNLIG LASERSTRÅLING VED ÅBNING. NÅR SIKKERHEDSÅFBRYDRE ER UDE AF FUNKTION, LINDGÅ UDSÆTTELSE FOR STRÅLING.
VARO!	AVATTRESSA JA SUKUALI MÄTUS OHTETTRESSA OLET ALTIMA NÄKYMÄTÖNÄ LASERSTRÄLLELLÄ ÄLÄ KATSO SÄTEESIEN.
VARNING	OSYNLIG LASERSTRÅLING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRÄKTA EJ STRÅLEN.
VORSICHT	UNSICHTBARE LASERSTRÄHLUNG. WENN ABDECKUNG GEÖFFNET UND SICHERHEITSPERKEGELUNG ÜBERBRÜCKT, NICHT DEM STRAHL AUSSETZEN.
ADVARSEL	USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSÅS BRYTES. UNNÅG EKSPONERING FOR STRÅLEN. (IOLXSD0053)

ONLY FOR CANADA

(Inside of product)

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

Panasonic 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 does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Puerto Rico, Inc. (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
Audio Products (except items listed below)	One (1) year	One (1) year
USB Reader-Writer, Personal Computer Card Adapters (in exchange for defective item)	One (1) year	Not Applicable
Accessories: Headphones, Cartridges, Microphones, Adapters	Ninety (90) days	Ninety (90) days
Rechargeable Batteries, DVD-R/RAM Discs (in exchange for defective item)	Ten (10) days	Not Applicable
SD Memory Cards, Rechargeable Battery Packs (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 carry-in or mail-in your product during the warranty period. If non-rechargeable batteries are included, they are not warranted. 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.

Carry-In or Mail-In Service

For Carry-In or Mail-In Service in the United States call 1-800-211-PANA (1-800-211-7262) or visit Panasonic web site: <http://www.panasonic.com>
 For assistance in Puerto Rico call Panasonic Puerto Rico, Inc. (787)-750-4300 or fax (787)-768-2910.

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, or commercial use (such as in a hotel, office, restaurant, or other business), rental use of the product, service by anyone other than a Factory Servicenter or other Authorized Servicior, 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, travel to and from the servicior, loss of media or images, data or other memory 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 Servicenter. 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.

Customer Services Directory

Obtain Product Information and Operating Assistance; locate your nearest Dealer or Servicenter; purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at:

<http://www.panasonic.com/consumersupport>

or, contact us via the web at:

<http://www.panasonic.com/contactinfo>

You may also contact us directly at:

1-800-211-PANA (7262),
 Monday-Friday 9 am-9 pm; Saturday-Sunday 10 am-7 pm, EST.

For hearing or speech impaired TTY users, TTY: 1-877-833-8855

Accessory Purchases

Purchase Parts, Accessories and Instruction Books online for all Panasonic Products by visiting our Web Site at:

<http://www.pasc.panasonic.com>

or, send your request by E-mail to:

npcparts@us.panasonic.com

You may also contact us directly at: 1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only) (Monday - Friday 9 am to 8 pm, EST.)

Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032
 (We Accept Visa, MasterCard, Discover Card, American Express, and Personal Checks)

For hearing or speech impaired TTY users, TTY: 1-866-605-1277

Service in Puerto Rico

Panasonic Puerto Rico, Inc.
 Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985
 Phone (787)750-4300, Fax (787)768-2910