

Panasonic®

Operating Instructions CD Stereo System

Model No. **SC-EN28**



Dear Customer

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

System	SC-EN28
Main unit	SA-EN28
Speakers	SB-EN28

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..

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 or noise is heard while receiving a radio broadcast.	<ul style="list-style-type: none"> Switch the TV or other audio player off or separate it from the unit. Switch off the portable audio player connected to "MUSIC PORT".
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.
FULL	<ul style="list-style-type: none"> The number of programmed tracks is limited to 24. No further tracks can be programmed.
NO/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>

Panasonic Puerto Rico, Inc.

Ave. 65 de Infantería, Km. 9.5
San Gabriel Industrial Park, Carolina,
Puerto Rico 00985



Supplied accessories

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

(As of January 2007)

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

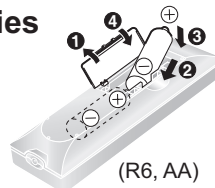
- 1 Remote control (N2QAGB000038)
- 2 Batteries
- 1 AC power supply cord (RJA0065-1D)
- 1 FM/AM antenna (N1DADYY00003)

Note

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

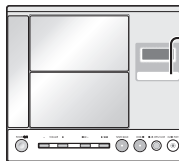
The remote control

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 benzene to clean this unit.
- Before using chemically treated cloth, read the instructions that came with the cloth carefully.

Care of the CD lens

- Clean the lens regularly to prevent malfunctions. Use a blower to remove dust and a cotton swab if it is extremely dirty. Recommended product: Lens cleaner kit (part no. SZZP1038C).
- Do not use the lens cleaner of the CD type.

Placement of speakers



Place this unit in an area with more than 240 mm (9 7/16") of vertical space. The CD lid may become damaged if it cannot open completely.

Placement of speakers

Left and right speakers are exactly the same.

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 nets off.

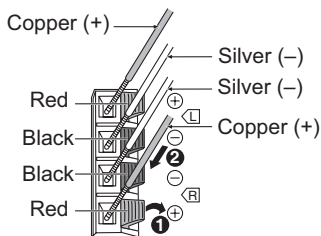
Caution

- 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

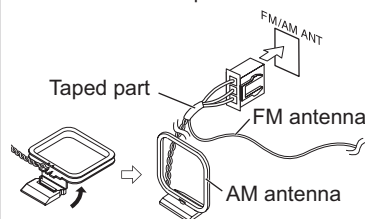
1 Speakers

If the speaker cords have tips, twist the tips and pull them off.



2 FM/AM antenna

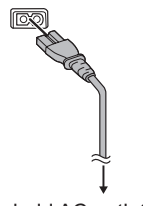
Stand the antenna up on its base.



Unplug the antenna connector by holding the taped part.

3 AC power supply cord

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



To household AC outlet

Conserving power

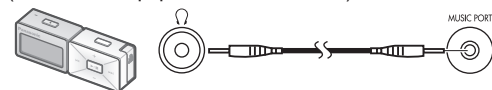
The unit consumes 2.0 W even when it is turned off with [POWER/I]. To save power when the unit is not to be used for a long time, unplug it from the household AC outlet. Remember to reset the radio stations and any other memory items before using the unit again.

Note

If the unit is left unplugged for longer than approximately two weeks, all settings will revert to the factory settings.

Portable audio equipment

(Cords and equipment not included.)



Portable audio player

Plug type: 3.5 mm (1/8") stereo

Use

Remote control



Start Playback from the Portable audio source.

Note

- Adjust the volume and sound quality of this unit and the other equipment.
- 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") 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. The mains plug of the power supply cord shall remain readily operable. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from AC receptacle.

CD operations

1 Set the CD in place.

Main unit

Remote control

■/▲ OPEN/CLOSE

OPEN/CLOSE

The unit comes on and the CD lid opens.

Label must face outward.

Press until you hear it click into place.

Press [▲] again to close.

Note

- Be sure to press the [OPEN/CLOSE] button to open and close the CD lid.
- Damage may occur if the lid is forced closed.



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

2 Start play.

Main unit

Remote control

Elapsed playing time of track
Track number



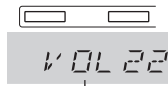
Note

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

To turn on the unit



To adjust the volume

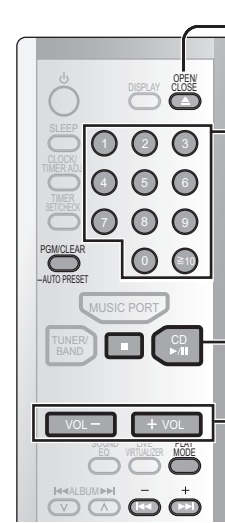


0 (Minimum) 50 (Maximum)

To skip/search



To stop play



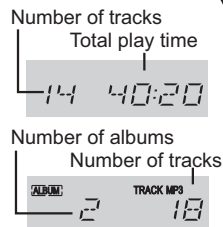
1
Input using the numbered buttons
To select a 2-digit number
e.g. 16: [≥10] → [1] → [6]
To select a 3-digit number
e.g. 226:
[≥10] → [≥10]
→ [2] → [2] → [6]

2
To adjust the volume

Stop

Main unit

Remote control



Repeat play/random play

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

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

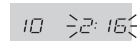
Note

- 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.

Pause

Main unit

Remote control



Press again to resume play.

Skip/Search

Main unit

Remote control



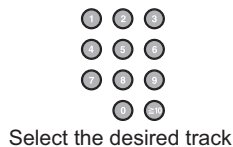
Press to skip/
Press and hold to search

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.

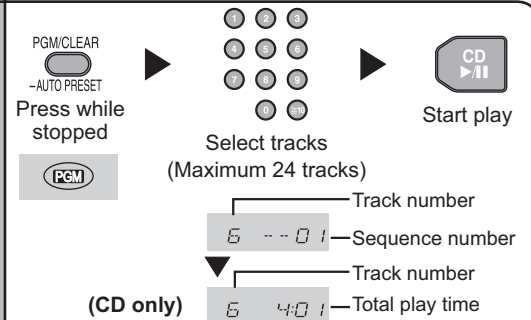
Direct access play

Play starts with the track you select.



Program play

This function allows you to program up to 24 tracks.



• Erase a program (While stopped)



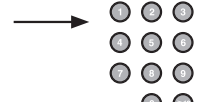
Note

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

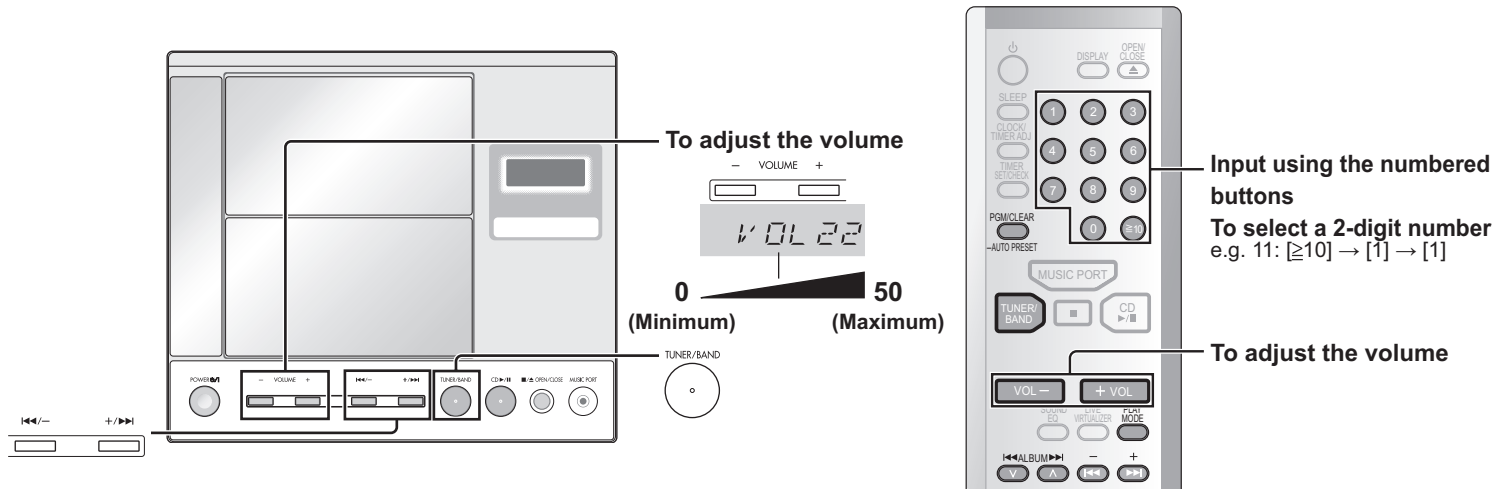
Note

• 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.

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.



1. Select the AM band with [TUNER/BAND].
2. 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.

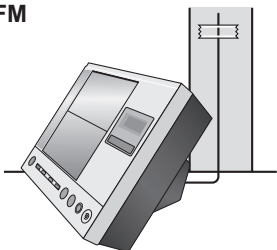
To return to the original step, repeat the above steps.

Note

The preset memory will be initialized when you change the frequency step.

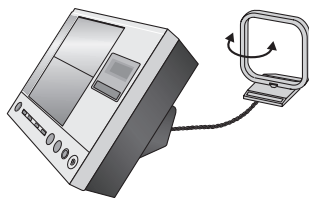
To improve reception

FM



Receive the radio stations after connecting the antenna. Then attach the antenna code on the wall or pillar in the good reception.

AM



Change the direction and location of the antenna.

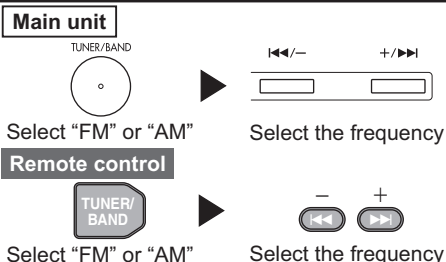
If noise is excessive in FM

You can improve FM reception by switching reception to monaural.

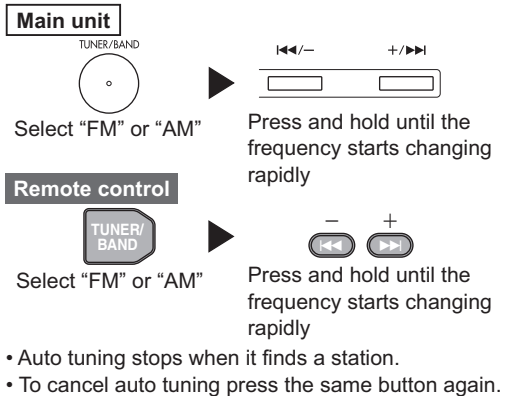


Press to turn the MONO mode ON/OFF

Manual tuning



Auto tuning

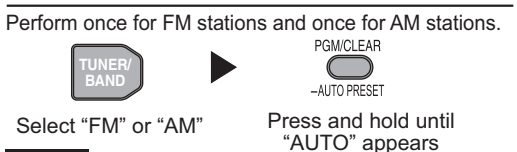


Note

- Auto tuning stops when it finds a station.
- To cancel auto tuning press the same button again.

Automatic presetting

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

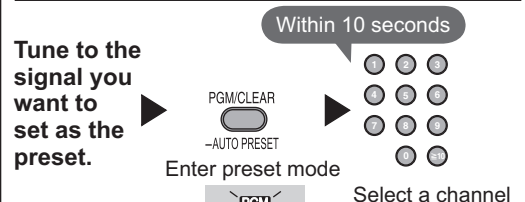


Note

During automatic presetting, the memory indicator (PGM) flashes and the frequency scrolls. The memory indicator and channel numbers are displayed for a second when a station is preset. The first station to be preset is displayed when presetting finishes.

Manual presetting

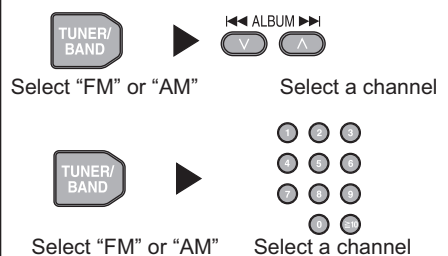
Preset the stations one at a time.



Note

The station occupying a channel is erased if another station is preset over that channel.

Selecting channels



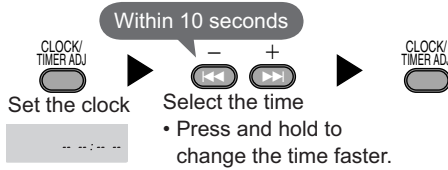
Timers and others

Press [⏻] to turn the unit on.



Setting the time

This is a 12-hour clock.



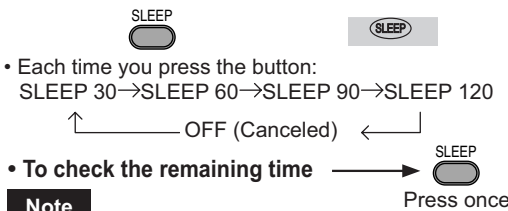
- To display the clock when the unit is on → CLOCK/TIMER ADJ
- To check the time when the unit is off → TIMER SET/CHECK

Note

The clock is accurate to within ± 60 seconds a month. Readjust if necessary. Set again after disconnecting the AC power supply cord or power failure.

SLEEP timer

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

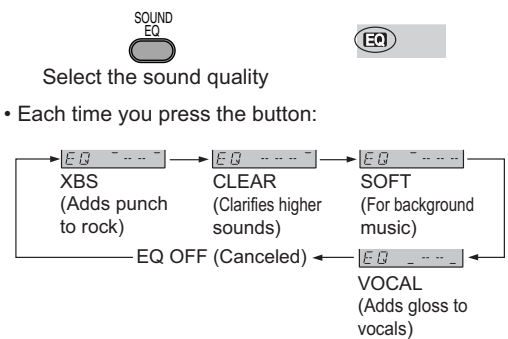


Note

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

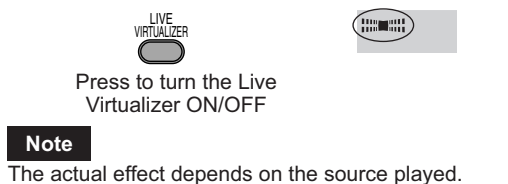
Sound quality

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.



Play timer

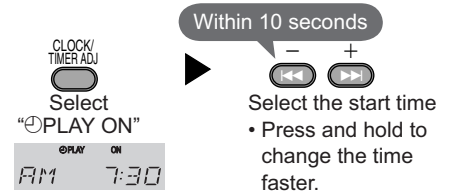
This timer starts play of the selected source at the selected time.

Preparation: Set the clock (left).

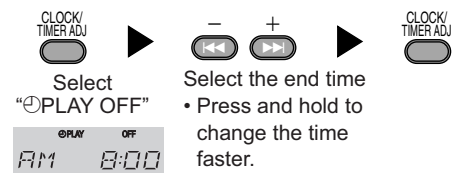
1 Perform timer settings

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 be operated.

Note

You can enjoy any sources while the play timer is set. The timer function will be canceled when you change the frequency step. Follow the step 3 again while the unit is on.

- To cancel the timer while the unit is on → TIMER SET/CHECK

Clear "⏻PLAY"

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 → TIMER SET/CHECK

Clear "⏻PLAY" and set the timer again

- To check the setting while the unit is off → TIMER SET/CHECK

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 "MUSIC P" source is selected, set the timer on the connected equipment to the same time.

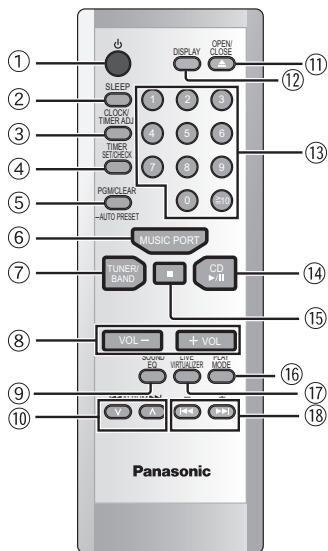
Display

You can change the display.

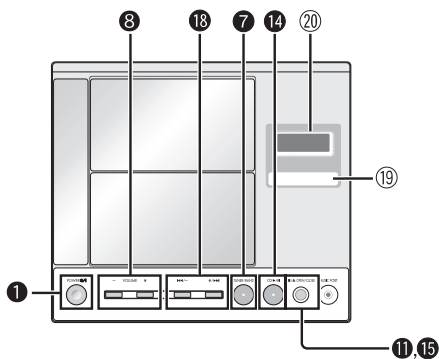
The following types of information are displayed.

- Original display
- Time display

Control guide



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



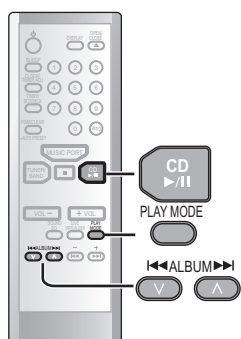
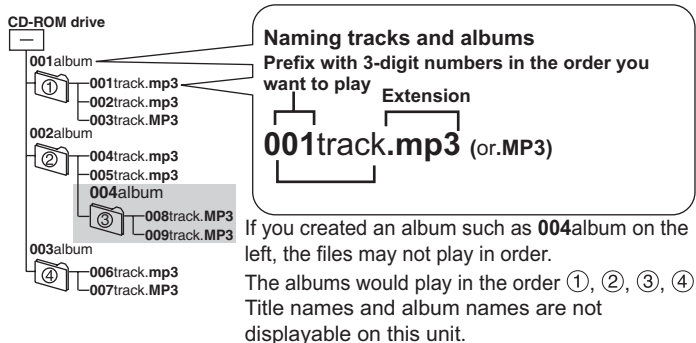
- ① Standby/on switch [⏻, POWER ⏻/⏻] 3
Press to switch the unit from on to standby mode or vice versa.
In standby mode, the unit is still consuming a small amount of power.
- ② SLEEP timer button [SLEEP]..... 5
- ③ Clock/timer adjust button [CLOCK/TIMER ADJ]..... 5
- ④ Timer set/check button [TIMER SET/CHECK]..... 5
- ⑤ CD program/clear, tuner preset button [PGM/CLEAR, -AUTO PRESET]..... 3, 4
- ⑥ MUSIC PORT button [MUSIC PORT]..... 2
- ⑦ Tuner/band select button [TUNER/BAND]..... 4
- ⑧ Volume buttons [VOL -, + VOL, - VOLUME +]..... 3
- ⑨ Sound EQ button [SOUND EQ] 5
- ⑩ Album skip, preset channel select buttons [∇, ▲, ◀◀ ALBUM ▶▶] 4, 6
- ⑪ CD open/close button [▲, OPEN/CLOSE]..... 3
- ⑫ Display button [DISPLAY]..... 5
- ⑬ Numbered buttons [1-9, 0, ≥10] 3
- ⑭ CD play/pause button [CD ▶/⏻] 3
- ⑮ CD stop button [■] 3
- ⑯ Play mode button [PLAY MODE] 3, 4, 6
- ⑰ Live virtualizer button [LIVE VIRTUALIZER] 5
- ⑱ CD skip/search, frequency select, time adjust buttons [◀◀, ▶▶, -, +, ◀◀/-, +/▶▶]..... 3, 4, 5
- ⑲ Remote control signal sensor
- ⑳ Display

MP3 operations

This unit can play MP3, a method of compressing audio without overly 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).
- The time for reading TOC depends on the number of the tracks, the folders or folder structures.



Album play

You can listen to tracks within albums.

[ALBUM] : Album play

[ALBUM] ↻ : Album repeat

• Skip the album → [◀◀] [▶▶]

Select the album: [◀◀] [▶▶]

Select "ALBUM," or "ALBUM, ↻": [PLAY MODE]

Start play: [CD ▶/⏻]

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.

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 not be possible to insert it correctly and 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.

-If you see this symbol-

Information on Disposal in other Countries outside the European Union



This symbol is only valid in the European Union. If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

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.
- USE ONLY THE RECOMMENDED ACCESSORIES.
- DO NOT REMOVE THE COVER (OR BACK); THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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.

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

FCC Note:

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.

Responsible Party:

Panasonic Corporation of North America
One Panasonic Way
Secaucus, NJ 07094
Telephone No.: 1-800-211-7262

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.

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.

Specifications

■ Main unit

Radio	
Frequency range	
FM	87.9 to 107.9 MHz (200 kHz steps)
	87.5 to 108.0 MHz (100 kHz steps)
AM	520 to 1710 kHz (10 kHz steps)

CD player	
Sampling frequency	44.1 kHz
Decoding	16 bit linear
Beam source	

Number of channels	2 channel, stereo
Wow and flutter	

D/A converter	Less than possible measurement data MASH(1 bit DAC)
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Terminals

Input	MUSIC PORT: 3.5 mm stereo (33 kΩ)
Output	PHONES: 3.5 mm stereo (32 Ω)
General	

Power supply	AC 120 V, 60 Hz
Power consumption	16 W
Dimensions (W×H×D)	241 mm×206 mm×206 mm (9 1/2" ×8 1/8" ×8 1/8")

Mass

With speakers	3.1 kg (6 lb. 13 oz.)
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Without speakers	1.8 kg (3 lb. 15 oz.)
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■ Speakers

Full range	8 cm (3 1/8"), 6 Ω×2
Dimensions (W×H×D)	91 mm×206 mm×176 mm (3 19/32" ×8 1/8" ×6 15/16")

Power consumption in standby mode: 2.0 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.

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 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, travel to and from the servicer, 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