

Panasonic®

Operating Instructions

CD Stereo System

Model No. **SC-AKX50**



Dear Customer

Thank you for purchasing this product.

For optimum performance and safety, please read these instructions thoroughly before connecting, operating or adjusting this product.

Please keep this manual for future reference.

Supplied Accessories

Please check and identify the supplied accessories.

1 x AC power supply cord

2 x Remote control batteries

1 x FM indoor antenna

1 x AM loop antenna

1 x Remote control
(N2QAYB000503)

Operations in these instructions are described mainly using the remote control, but you can perform the operations on the main unit if the controls are the same.

Your unit may not look exactly the same as illustrated.

GN

RQTX1098-B

These operating instructions are applicable to the following system.

System	SC-AKX50
Main unit	SA-AKX50
Speakers	SB-AKX70

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.

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.
- 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.

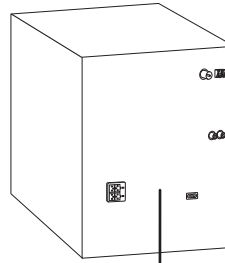
The socket outlet shall be installed near the equipment and easily accessible.

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.

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.

THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.



CAUTION	- CLASS 1M INVISIBLE LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1+A2:Class 1M
WARNING	- KLASSE 1M OSYMBOLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRÄKTA EJ STRÅLEN DIREKT GENOM OPTISKA INSTRUMENT.
FORSIGTIG	- OSYMBOLIG LASERSTRÅLNING KLASSE 1M. NÄR LÅSET ER ÅBENT. UNDGÅ AT SE LIGE PÅ MED OPTISKE INSTRUMENTER.
VARO!	- AVATTAESSA OLET ALTIIN LUKKAN 1M NÄKYMÄTÖNTÄ LASERSÄTELYÄ. ÄLÄ KATSO OPTISELLÄ LAITTEELLA SUORAAN SÄTTEESEEN.
VORSICHT	- UNSICHTBARE LASERSTRÄHLUNG KLASSE 1M. WENN ABDECKUNG GEÖFFNET. NICHT DIREKT MIT OPTISCHEN INSTRUMENTEN BETRACHTEN.
ATTENTION	- RAYONNEMENT LASER INVISIBLE, CLASSE 1M. EN CAS D'OUVERTURE, NE PAS REGARDER DIRECTEMENT À L'ŒIL DE INSTRUMENTS D'OPTIQUE.
PRECAUCIÓN	- RADIACIÓN LASER INVISIBLE DE CLASE 1M AL ESTAR ABIERTO. NO VEA DIRECTAMENTE CON INSTRUMENTOS ÓPTICOS.
注意	- ここを開くと不可視レーザー光が出ます。ビームを直視したり、離れた方へ照射しないでください。
注意	- 打开时有不可见激光辐射。避免光束直射。 GB7241.1-2001/IEC 类 RQLX50105

Inside of product

- 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.

Safety precautions

Placement

Set the unit up on an even surface away from direct sunlight, high temperatures, high humidity, and excessive vibration. These conditions can damage the cabinet and other components, thereby shortening the unit's service life.

Place it at least 15 cm away from wall surfaces to avoid distortion and unwanted acoustical effects.

Do not place heavy items on the unit.

Voltage

Do not use high voltage power sources. This can overload the unit and cause a fire.

Do not use a DC power source. Check the source carefully when setting the unit up on a ship or other places where DC is used.

AC mains lead protection

Ensure the AC mains lead is connected correctly and not damaged. Poor connection and lead damage can cause fire or electric shock. Do not pull, bend, or place heavy items on the lead.

Grasp the plug firmly when unplugging the lead. Pulling the AC mains lead can cause electric shock.

Do not handle the plug with wet hands. This can cause electric shock.

Foreign matter

Do not let metal objects fall inside the unit. This can cause electric shock or malfunction.

Do not let liquids get into the unit. This can cause electric shock or malfunction. If this occurs, immediately disconnect the unit from the power supply and contact your dealer.

Do not spray insecticides onto or into the unit. They contain flammable gases which can ignite if sprayed into the unit.

Service

Do not attempt to repair this unit by yourself. If sound is interrupted, indicators fail to light, smoke appears, or any other problem that is not covered in these instructions occurs, disconnect the AC mains lead and contact your dealer or an authorized service centre. Electric shock or damage to the unit can occur if the unit is repaired, disassembled or reconstructed by unqualified persons.

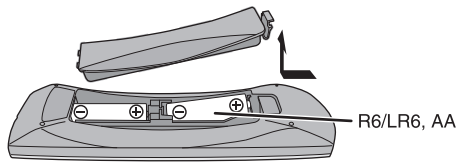
Extend operating life by disconnecting the unit from the power source if it is not to be used for a long time.

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Preparing the remote control

Use alkaline or manganese batteries.
Insert so the poles (+ and –) match those in the remote control.



Aim at the remote control signal sensor (➔ page 6), avoiding obstacles, at a maximum range of 7 m directly in front of the unit.

Note on using the remote control

- Do not mix old and new batteries.
- Do not use different types of batteries at the same time.
- Do not take apart or short circuit the batteries.
- Do not attempt to recharge alkaline or manganese batteries.
- Do not use batteries if the covering has been peeled off.
- Do not heat or expose to flame.
- Do not leave the battery(ies) in an automobile exposed to direct sunlight for a long period of time with doors and windows closed.
- Mishandling of batteries in the remote control can cause electrolyte leakage, which may cause a fire.
- Remove the batteries if the remote control is not going to be used for a long period of time. Store in a cool, dark place.

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

Placement of speakers

Speakers are designed identically so that no left or right channel orientation is necessary.



You cannot take the front net off the speakers.

Use only the supplied speakers.

The combination of the main unit and speakers provide the best sound. Using other speakers can damage the unit and sound quality will be negatively affected.

Note:

- Keep your speakers at least 10mm 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.
- You can damage your speakers and shorten their useful life if you play sound at high levels over extended periods.
- Reduce the volume in the following cases to avoid damage.
 - When playing distorted sound.
 - When adjusting the sound quality.

Caution

- Use the speakers only with the recommended system. Failure to do so can damage the amplifier and speakers, and can cause fire. Consult a qualified service person if damage occurs or if a sudden change in performance is apparent.
- Do not attach these speakers to walls or ceilings.

Making the connections

Connect the AC mains lead only after all the other connections have been made.

Antenna connections
Place the antenna where reception is best.

■ **FM indoor antenna**

■ **AM loop antenna**

Please refer to "Connecting and playing other external unit" on page 16 for more information on the AUX connection.

To household mains socket

AC mains lead connection

Insertion of connector
Even when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector may jut out as shown in the drawing. However there is no problem using the unit.

Appliance inlet → Connector

For your reference
To save power when the unit is not to be used for a long time, unplug it from the household mains socket. You will need to reset some memory items after plugging in the unit.

Note:

- The included AC mains lead is for use with this unit only. Do not use it with other equipment.
- Do not use an AC mains lead from other equipment.

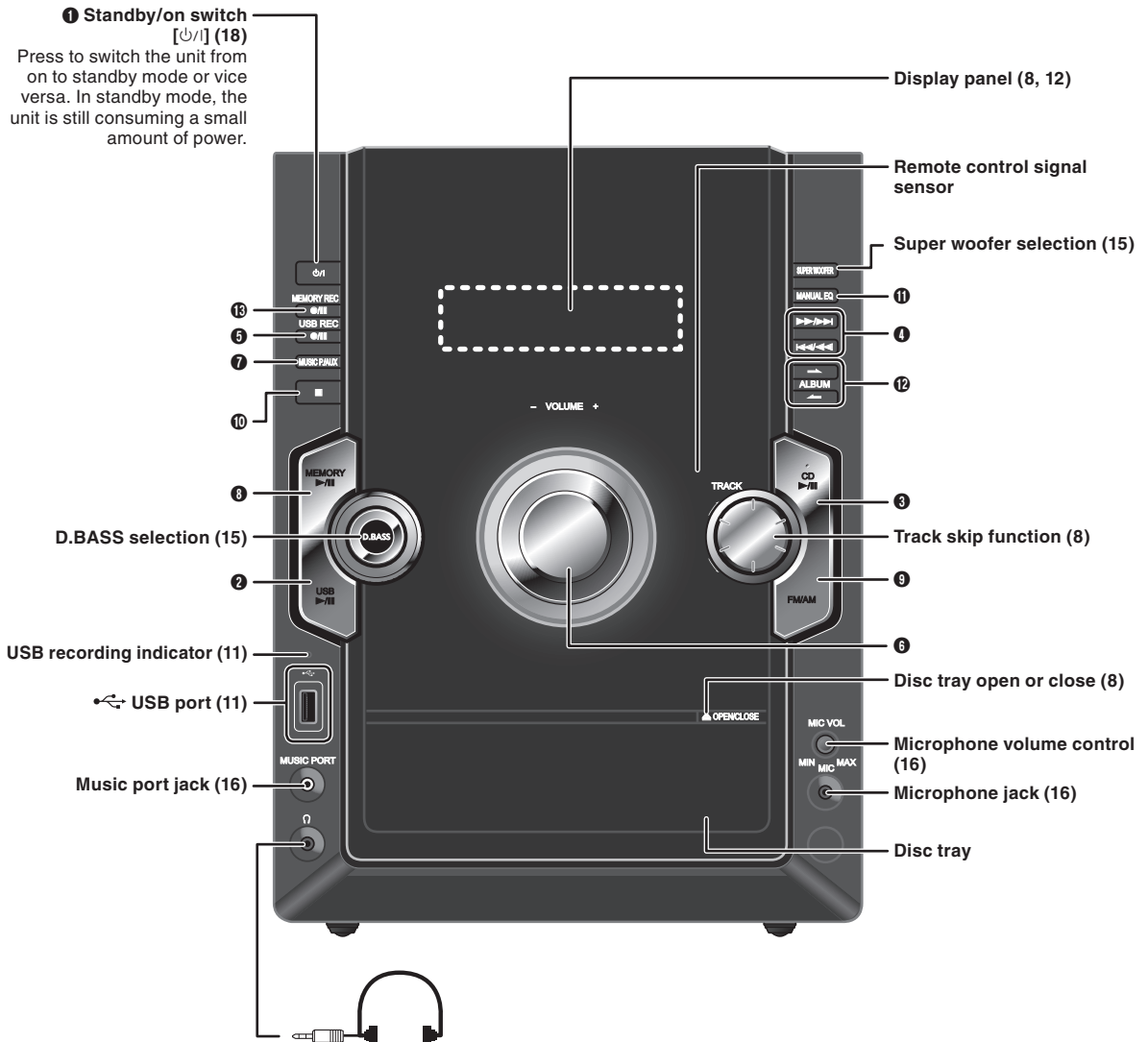
Speaker connections

Connect the left (L) side in the same way

Overview of controls

Main unit

Refer to the numbers in parentheses for page reference. Buttons labelled such as ❶ function in exactly the same way as the controls on the remote control (➔ page 7).

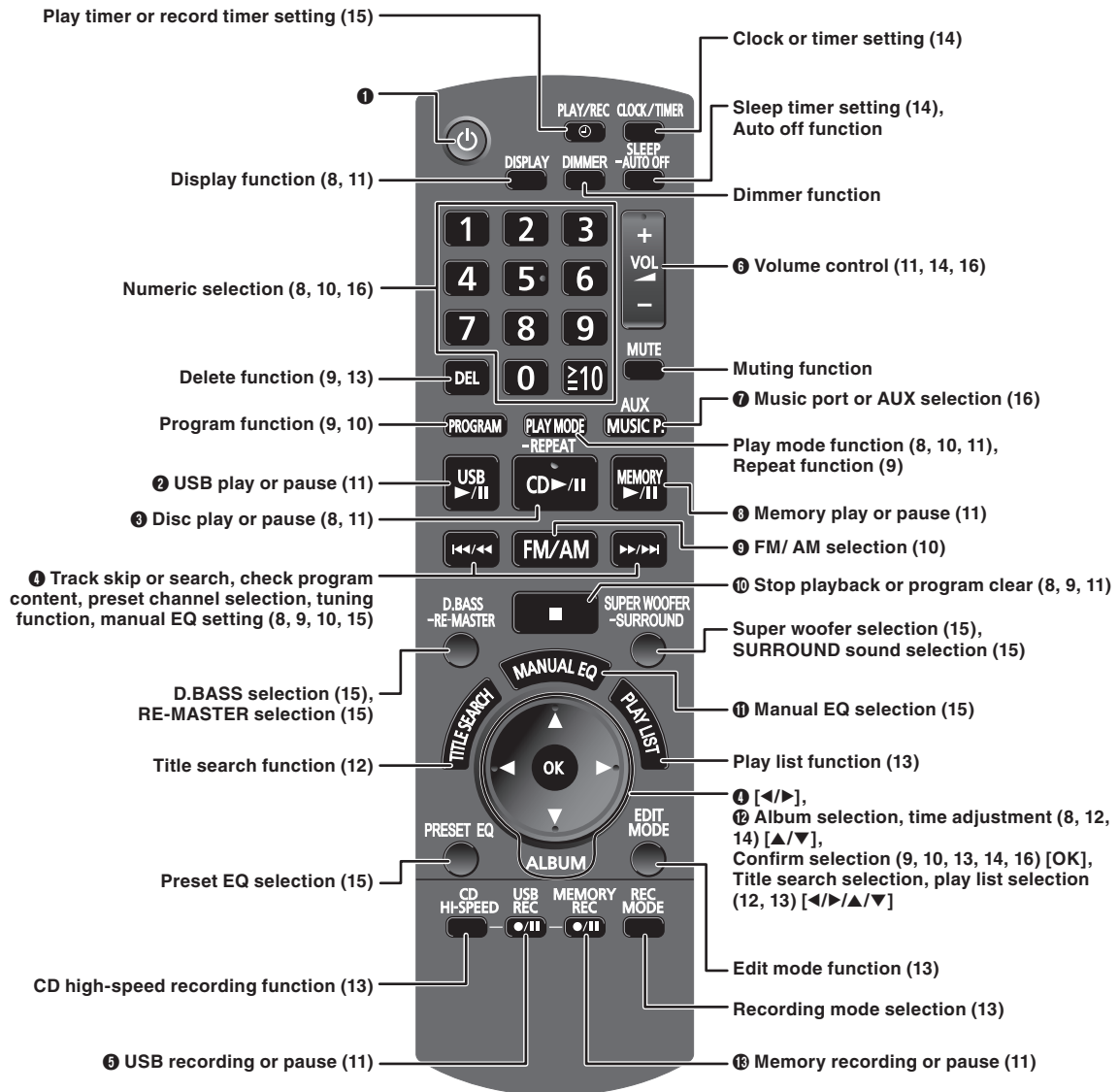


Headphone jack (16)
Plug type: Ø 3.5 mm stereo (not included)

- Avoid listening for prolonged periods of time to prevent hearing damage.
- Excessive sound pressure from earphones and headphones can cause hearing loss.
- Listening at full volume for long periods may damage the user's ears. Be sure to use the supplied or recommended headphones or earphones.

Remote control

Buttons labelled such as ❶ function in exactly the same way as the controls on the main unit (➔ page 6).



<p style="text-align: center;">SLEEP -AUTO OFF</p> <p style="text-align: center;">[Button]</p> <p>This auto off function allows you to turn off the unit in disc, USB or memory mode only after left unused for 10 minutes.</p> <ul style="list-style-type: none"> • Press and hold the button to activate the function. • Press and hold the button again to cancel. • The setting is maintained even if the unit is turned off. 	<p style="text-align: center;">DIMMER</p> <p style="text-align: center;">[Button]</p> <p>To dim the display panel.</p> <ul style="list-style-type: none"> • Press the button to activate the function. • Press the button again to cancel. 	<p style="text-align: center;">MUTE</p> <p style="text-align: center;">[Button]</p> <p>To mute the sound.</p> <ul style="list-style-type: none"> • Press the button to activate the function. • Press the button again or adjust the volume to cancel.
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Discs

Basic play

1 Press [▲, OPEN/CLOSE] on the main unit to open the tray. The unit turns on, load a disc with the label facing up. Press [▲, OPEN/CLOSE] again to close the tray.

2 Press [▶/⏸, CD] to start play.

Stop playback	<p>Press [■] (stop) during play.</p> <p>MP3</p> <p>Display when in the stop mode: Example: "MP3" indicates the disc contains MP3 files.</p>
Pause play	<p>Press [▶/⏸, CD] during play. Press again to resume play.</p>
Skip album	<p>MP3</p> <p>Press [▲/▼, ALBUM] to select the desired album during play or when in stop mode.</p> <ul style="list-style-type: none"> This function does not work during RANDOM mode.
Skip tracks	<p>During play</p> <p>Press [◀◀/▶▶] or [▶▶/▶▶], or turn [TRACK] to skip to your desired track.</p> <p>While in stop mode</p> <p>Press [◀◀/▶▶] or [▶▶/▶▶] followed by [▶/⏸, CD] to skip and play your desired track.</p> <p>Alternatively, turn [TRACK] to skip and play your desired track.</p> <ul style="list-style-type: none"> During random play (⇒ see right, "Play Mode function"), you cannot skip to tracks which have been played. You cannot use [TRACK] to skip track during random play. <p>MP3</p> <p>During 1-ALBUM and 1-ALBUM RANDOM mode, track skipping can only be done within the current album.</p>
Search through tracks	<p>CD</p> <p>Press and hold [◀◀/▶▶] or [▶▶/▶▶] during play or pause to search.</p> <ul style="list-style-type: none"> During program play (⇒ page 9), or random play (⇒ see right, "Play Mode function"), you can search only within the track.

Play Mode function

CD **MP3**

Press [PLAY MODE] to select the desired mode.

1-TRACK 1-TR	<p>Play one selected track on the disc. Press the numeric buttons to select the track. Play starts from the selected track.</p>
1-ALBUM 1-ALB	<p>MP3</p> <p>Play one selected album on the disc. Press [▲/▼, ALBUM] to select the album.</p>
RANDOM RND	<p>Play a disc randomly.</p>
1- ALBUM RANDOM 1-ALB RND	<p>MP3</p> <p>Play all tracks in one selected album randomly. Press [▲/▼, ALBUM] to select the album.</p>

When playback ends

The current play mode will be retained in memory until it is changed even if the unit is turned off.

Note:

- You cannot use program mode together with "Play Mode function".
- The play mode setting is cleared when you open the disc tray.

Checking the track information

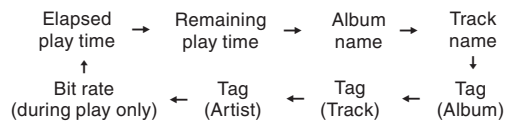
You can view the information of the current track from the display panel.

Press [DISPLAY] repeatedly during play or pause.

CD

Elapsed play time ↔ Remaining play time

MP3



Note:

MP3

- This unit supports ver. 1.0 and 1.1 ID3 tags.
- ID3 is a tag embedded in MP3 track to provide information about the track.
- Titles containing text data that the unit does not support may be differently displayed.

Advanced play

Program play

This function allows you to program up to 24 tracks.

CD

- 1** Press **[▶/II, CD]** and then **[■]** (stop).
- 2** Press **[PROGRAM]**.
"PGM" appears.
- 3** Press the numeric buttons to select your desired track.
Repeat this step to program other tracks.
- 4** Press **[▶/II, CD]** to start play.

MP3

- 1** Press **[▶/II, CD]** and then **[■]** (stop).
- 2** Press **[PROGRAM]**.
- 3** Press **[▲/▼, ALBUM]** to select your desired album.
- 4** Press **[◀◀/▶▶]** or **[▶▶/▶▶]** to select the track.
To select a track directly, press the numeric buttons after pressing **[◀◀/▶▶]** or **[▶▶/▶▶]**.
- 5** Press **[OK]**.
Repeat steps 3 to 5 to program other tracks.
- 6** Press **[▶/II, CD]** to start play.

For two-digit track, press ≥ 10 once then the two digits.
For three-digit track, press ≥ 10 twice then the three digits.

Cancel program mode	Press [PROGRAM] in the stop mode.
Replay the program	Press [PROGRAM] then [▶/II, CD] in the stop mode.
Add to the program	<p>CD</p> <p>In the stop mode, press [▶▶/▶▶] and then repeat step 3.</p> <p>MP3</p> <p>Repeat steps 3 to 5 in the stop mode.</p>
Check program contents	<p>Press [◀◀/▶▶] or [▶▶/▶▶] when "PGM" is displayed in the stop mode.</p> <p>To check while programming, press [PROGRAM] twice after "PGM" appears, then press [◀◀/▶▶] or [▶▶/▶▶].</p> <p>CD</p> <p>The track number and program order are displayed:</p> <div style="text-align: center;"> </div> <p>MP3</p> <p>The program order is displayed followed by the album number and track number.</p>
Clear the last track	Press [DEL] in the stop mode.
Clear all programmed tracks	Press [■] (clear) in the stop mode. "CLR ALL" is displayed. Within 5 seconds, press the button again to clear all tracks.

Note:

The program memory is cleared when you open the disc tray.

Repeat play

CD **MP3**

You can repeat program play (→ see left) or other selected play mode (→ page 8).

Press and hold **[– REPEAT]**.

"REPEAT ON" and "⊞" are displayed.

To cancel

Press and hold **[– REPEAT]** again.

"REPEAT OFF" is displayed and "⊞" is cleared.

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 playback may not be possible.

NOTE on CDs

- This unit can access up to 99 tracks.
- This unit can play MP3 files and CD-DA format audio CD-R/RW that have been finalised.
- It may not be able to play some CD-R/RW due to the condition of the recording.
- Do not use irregularly shaped disc.
- Do not use disc with labels and stickers that are coming off or with adhesive exuding from under labels and stickers.
- Do not attach extra labels or stickers on the disc.
- Do not write anything on the disc.

NOTE on MP3

- Files are treated as tracks and folders are treated as albums.
- This unit can access up to 999 tracks, 255 albums and 20 sessions.
- Disc must conform to ISO9660 level 1 or 2 (except for extended formats).
- To play in a certain order, prefix the folder and file names with 3-digits numbers in the order you want to play them.

Limitations on MP3 play

- If you have recorded MP3 on the same disc as CD-DA, only the format recorded in the first session can be played.
- Some MP3s may not be played due to the condition of the disc or recording.
- Recordings will not necessarily be played in the order you recorded them.

Using the FM/AM radio

Manual tuning

- 1 Press [FM/AM] to select “FM” or “AM”.
- 2 Press [PLAY MODE] to select “MANUAL”.
- 3 Press [◀◀/▶▶] or [▶▶/▶▶] to select the frequency of the required station.
“ST” is displayed when a stereo FM broadcast is being received.

To tune automatically

Press and hold [◀◀/▶▶] or [▶▶/▶▶] until the frequency starts changing rapidly. The unit begins auto tuning, stopping when it finds a station.

- Auto tuning may be interrupted when there is excessive interference.
- To cancel auto tuning, press [◀◀/▶▶] or [▶▶/▶▶] once again.

To improve the sound quality

When “FM” is selected

Press and hold [PLAY MODE] to display “MONO”.

To cancel

Press and hold [PLAY MODE] again until “MONO” disappears.

- MONO is also cancelled if the frequency is changed.
- Turn off “MONO” for normal listening.

When “AM” is selected

Press and hold [PLAY MODE].

Each time you press the button: BP2 ↔ BP1

AM allocation setting

By main unit only

This system can also receive AM broadcasts allocated in 10 kHz steps.

To change the step from 9 kHz to 10 kHz

- 1 Press and hold [FM/AM].
After a few seconds the display changes to a flashing display of the current minimum frequency.
- 2 Continue to hold down [FM/AM].
 - When the minimum frequency changes, release the button. To return to the original step, repeat the above steps.
 - After changing the setting, previously preset frequency will be cleared.

Memory preset

30 FM and 15 AM stations can be preset.

Preparation

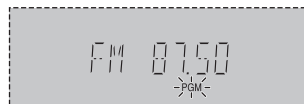
Press [FM/AM] to select “FM” or “AM”.

Automatic presetting

- 1 Press [OK] repeatedly to select either “CURRENT” or “LOWEST”.

CURRENT	Tuning begins from the current frequency.
LOWEST	Tuning begins from the lowest frequency.

- 2 Press and hold [PROGRAM] to start presetting.



The tuner presets all the stations it can receive into the channels in ascending order. When finished, the first station memorised is tuned in.

Manual presetting

- 1 Press [PLAY MODE] to select “MANUAL”.
- 2 Press [◀◀/▶▶] or [▶▶/▶▶] to tune to the required station.
- 3 Press [PROGRAM].
- 4 Press the numeric buttons to select a channel.
The station occupying a channel is erased if another station is preset to that channel.
- 5 Repeat steps 2 to 4 to preset more stations.

Selecting a preset station

Press the numeric buttons to select a channel.

For channels 10 to 30 press [≥10], then the two digits.



OR

- 1 Press [PLAY MODE] to select “PRESET”.
- 2 Press [◀◀/▶▶] or [▶▶/▶▶] to select the channel.

USB and internal memory

The USB connectivity enables you to record sound or music tracks from various sources to MP3 format and store into the USB mass storage device which can be played back. Typically, USB memory devices (bulk only transfer).

The 2 GB internal memory of this unit also allows you to store recorded sound or music tracks from various sources to MP3 format which can also be played back when desired.

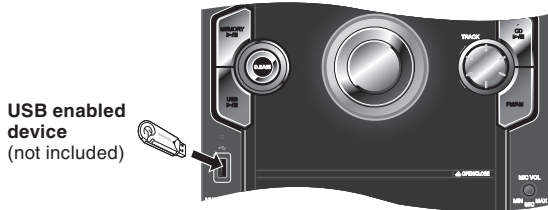
You can play or record up to 800 folders (maximum 999 tracks in an album) or a total of 8000 tracks, depending on the available storage capacity.

Connecting a USB mass storage device

Preparation

Before connecting any USB mass storage device to the unit, ensure that the data stored therein has been backed up.

It is not recommended to use a USB extension cable. The USB device connected via the cable will not be recognized by this unit.



Reduce the volume and connect the USB mass storage device to the USB port.

Note:

When you connect your digital audio player to the USB port, it charges all the time except in standby mode.

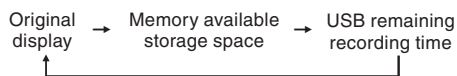
Checking the USB and internal memory status

You can check available storage space in the USB device or internal memory.

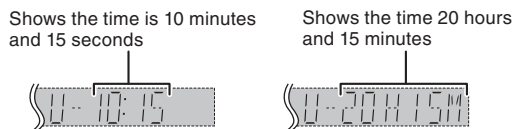
1 Press [▶/II, USB] or [▶/II, MEMORY] and then [■] (stop).

2 Press [DISPLAY] repeatedly in the stop mode.

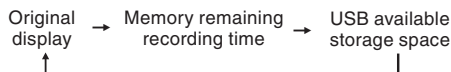
USB



Example of USB remaining recording time:



MEMORY



Example:



Note:

The memory's remaining recording time will also have similar display as USB.

Recording to a USB mass storage device or the internal memory

Panasonic will not be held responsible on the consumer's action to record copyrighted music in the form of various audio files which results in copyright infringement.

Note:

- These functions do not work with any "RANDOM" mode selection.
- Repeat mode will turn off when recording starts.
- A new album is created each time you perform a recording. Depending on the memory, the album's sequence may change once the recording has completed.
- The recorded sound or music tracks are stored in a folder named "REC_DATA" in the USB.
- All tracks are recorded to .mp3 format.

Basic recording

1 Select the source to be recorded.

Radio recording:

Tune in the station (➔ page 10).

CD recording:

- ① Insert the disc you want to record.
Press [▶/II, CD] and then [■] (stop).
- ② Prepare the desired disc recording mode.

Record programmed tracks	Program the tracks you want (➔ page 9).
Record specific tracks	Press [PLAY MODE] to select 1-TRACK (➔ page 8).

Ensure the disc has stopped.

MUSIC PORT or AUX recording:

Connect and play the equipment (➔ page 16).

2 Record to your desired storage location.

Press [●/II, USB REC] or [●/II, MEMORY REC] to start recording.

"REC" is displayed, followed by "REXXXXXX MAKING". "REXXXXXX" indicates the folder's name.

Stop recording	Press [■] (stop). "WRITING" is displayed for a few seconds.
Pause recording	Press [●/II, USB REC] or [●/II, MEMORY REC] during recording. Press again to resume recording. Note: Pause can only be performed during recording from the radio, music port or AUX source (except in SYNCHRO mode). A track mark (➔ page 13) is inserted every time you pause.
Erase a recorded track	(➔ page 14)

Note:

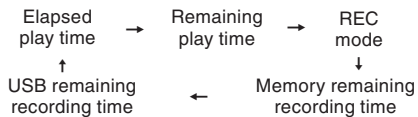
- "RENAME" and "ALBUM" will be displayed when the system rearranges and renames the folders in ascending order.
- USB recording indicator blinks during USB recording.

Checking the track information

While performing basic recording function (➔ page 11), you can view the information of the current track from the display panel.

Press [DISPLAY] repeatedly during recording.

Example: Display during CD recording



Recording of MP3 tracks

MP3

You can record MP3 tracks stored in an album from the disc to a USB device or the unit's internal memory.

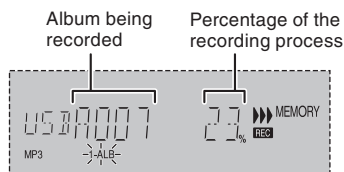
Album recording can also be performed from the USB device to the internal memory and vice versa.

1 Select the source of the album you want to record.
Press [▶/II, CD] or [▶/II, USB] or [▶/II, MEMORY] and then [■] (stop).

2 Press [▲/▼, ALBUM] to select the desired album.

3 Record to your desired storage location.
Press [●/II, USB REC] or [●/II, MEMORY REC] to start recording.

Example: Recording an album from the USB device to the internal memory.



Stop recording	Press [■] (stop). Recording stops at the last completed track in the album. "NO. FXXX" which is the folder name will be displayed. Example: If recording stops amidst the fourth track, only the first three tracks will be stored. "NO FILE RECORDED" is displayed if recording stops amidst the first track.
Erase a recorded track	(➔ page 14)

Note:

- Some files may take longer to record.
- Depending on the condition of the disc or file, some MP3 files may not be able to record.

Basic play

Press [▶/II, USB] or [▶/II, MEMORY] to start play.

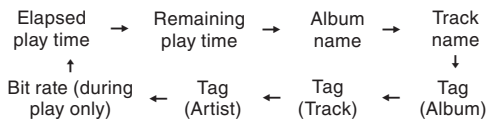
Stop playback	Press [■] (stop) during play. This unit memorises the track at which you stopped. Playback will resume from that track. Press [▶/II, USB] or [▶/II, MEMORY] to resume play. OR Press [■] (stop) again to cancel the resume play function.
Pause play, Skip tracks or Skip album	These functions have similar operation as described in "Basic play" of discs (➔ page 8).

Checking the track information

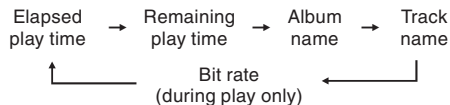
You can view the information of the current track from the display panel.

Press [DISPLAY] repeatedly during play or pause.

USB



MEMORY



Advanced play

Title search

MEMORY

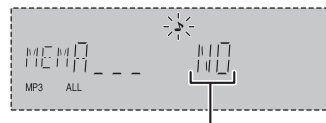
After a period of time, the number of MP3 tracks will increase in the internal memory storage. This is where the title search function comes in handy to enable you the convenience to search for your desired track.

1 Press [TITLE SEARCH] to start the search.
"▶" blinks.

2 Press [▲/▼] repeatedly to select the first character of the desired track.

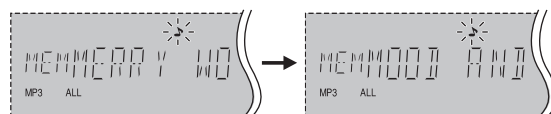
- ▲ : Search in descending order (other characters, 9 to 0, Z to A).
- ▼ : Search in ascending order (A to Z, 0 to 9, other characters).

Example:



3 When there are more than one track that match with the selected character, press [◀/▶] repeatedly to search for your desired track.

Example:



4 Press [OK] to select and play the track.

Note:

- This function will skip tracks that are created with basic recording (➔ page 11).
- This function does not work with any random or program mode.
- The character is not case sensitive.
- A same track title display will be shown for tracks with the same title.

Play List

MEMORY

You can store up to 10 play lists. Each play list stores up to 99 tracks.

- 1 Press [▶/II, MEMORY] and then [■] (stop).
- 2 Press [PLAY LIST].
- 3 Press [▲/▼] to select the desired play list.
- 4 Press [OK] to confirm.
"PL01 EMPTY" is displayed if no track is found in play list named "PL01".
- 5 Press [▲/▼] to select the desired album.
- 6 Press [◀/▶] to select the track.
- 7 Press [OK] to store the selected track.
- 8 Press [EDIT MODE] and then repeat step 5 to 7 to store other tracks.
- 9 Press [▶/II, MEMORY] to start play.

Cancel the play list	Press [PLAY LIST] repeatedly until "P" has cleared.
Select other play list	Press [PLAY LIST] and then [▲/▼] to select the play list.
Add tracks	Perform step 8 in the stop mode.
Check contents of the play list	Press [◀/▶] in the stop mode.
Clear a single track	In the stop mode, press [◀/▶] to select the desired track you want to clear then press [DEL], "DELETE?" is displayed. Within 5 seconds, press [OK] to clear the track.
Clear all tracks in a play list	Press [■] (clear) in the stop mode, "CLEAR?" is displayed. Within 5 seconds, press [OK] to clear all tracks.

Advanced recording functions

High-speed recording

CD

Recording speed:

CD : Four times (maximum of 4x) the normal speed.
CD-RW : Two times (2x) the normal speed.

- 1 Insert the disc you want to record.
- 2 Press [▶/II, CD] and then [■] (stop).
To record a specific track, press [PLAY MODE] to select 1-TRACK.
- 3 Press [CD HI-SPEED] and [●/II, USB REC] or [●/II, MEMORY REC] simultaneously to start recording.

Note:

- Depending on the condition of the disc, it may not be possible to record at four times the normal speed or perform high-speed recording. Record the CD at normal speed.
- The sound is muted during high-speed recording.

Recording from CD using analogue format

CD

You can change your recording mode from the default digital recording to analogue recording.

- 1 Press [▶/II, CD] and then [■] (stop).
- 2 Press and hold [EDIT MODE] to select "ANALOG-REC".
Each time you press and hold the button:

ANALOG-REC (analogue recording) ↔ DIGITAL-REC (digital recording)

Note:

- The recording mode returns to the default "DIGITAL-REC" after completing the analogue recording.
- High-speed recording is not applicable while using analogue mode.

Recording mode

You can select the desired recording mode before you start the basic recording (➔ page 11).

Press [REC MODE] repeatedly to select your desired setting.

128 KBPS → 192 KBPS → 320 KBPS

128 KBPS	Long play mode
192 KBPS	Normal mode
320 KBPS	High quality sound mode

During recording

Press [DISPLAY] repeatedly to display the current recording mode.

Note:

You cannot change the recording mode during recording.

Adding track marks

When recording from analogue source such as radio, music port or AUX, you may want to separate the sound or music track at desired point during recording. You can perform this separation by adding track marks using the various listed modes.

Before recording

Press [EDIT MODE] repeatedly to select your desired track mark mode.

Radio:

MANUAL ↔ TIME MARK

MUSIC PORT or AUX:

MANUAL → SYNCHRO → TIME MARK

MANUAL	Track marks are inserted manually. Press [OK] to add track mark during recording.
TIME MARK	Track marks are inserted automatically every five minutes.
SYNCHRO	Recording starts automatically when the other equipment starts to play. Recording pause when it detects silence for approximately three seconds.

Note:

- If you press [OK] or pause recording while using TIME MARK mode during recording, the five-minute counter will be reset.
- You cannot insert track marks manually in SYNCHRO mode.

Erasing the recorded tracks

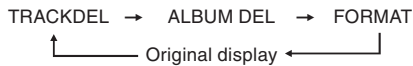
This function allows you to erase unwanted tracks quickly and easily.

1 Press [▶/II, USB] or [▶/II, MEMORY] and then [■] (stop).

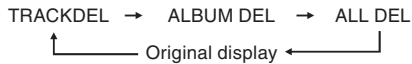
2 Press [▲/▼/◀/▶] to select your desired album or track.

3 Press [EDIT MODE] repeatedly to select your desired erasing mode.

USB



MEMORY



TRACKDEL	Erase single track
ALBUMDEL	Erase one album
FORMAT	Format the USB device
ALL DEL	Erase all albums

4 Press [OK].
 Within 2 seconds or so, the selected item to be erased is displayed followed by the "PRESS OK" display.

Example:



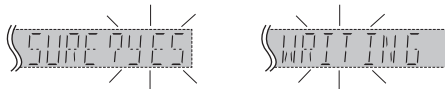
5 Press [OK] again.

6 Press [◀/▶] to select "YES" then press [OK] to confirm the erasure.
 "WRITING" is displayed.

OR

Press [◀/▶] to select "NO" then press [OK] to cancel the erasure.

Example:



Note:

When an album contains more than 999 tracks, "ALBUMDEL" will erase only 999 tracks. Repeat steps 2 to 6 to erase that album.

NOTE on USB

Compatible devices

- Devices which are defined as USB mass storage class:
- USB devices that support bulk only transfer.
 - USB devices that support USB 2.0 full speed.

Supported format

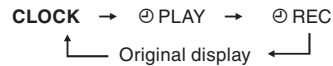
- Folders are defined as album.
- Files are defined as track.
- Track must have the extension ".mp3" or ".MP3".
- CBI (Control/Bulk/Interrupt) is not supported.
- A device using NTFS file system is not supported. [Only FAT 12/16/32 (File Allocation Table 12/16/32) file system is supported.]
- Depending on the sector size, some files may not work.

Using the clock and timers

Setting the clock

This is a 24-hour clock.

1 Press [CLOCK/TIMER] to select "CLOCK".
 Each time you press the button:



2 Within 8 seconds or so
 Press [▲/▼] to set the time.

3 Press [OK] to finish setting the time.

Displaying the clock

Press [CLOCK/TIMER] once when the unit is on or in standby mode.

The time is displayed for a few seconds.

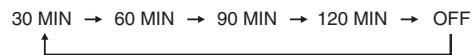
Note:

Reset the clock regularly to maintain accuracy.

Using the sleep timer

This function enables you to turn off the unit automatically after the set time.

Press [SLEEP] repeatedly to select your desired time.



Sleep timer indicator

To cancel

Press [SLEEP] to select "OFF".

Changing the remaining time

Press [SLEEP] to show the remaining time and press [SLEEP] again to select your desired time.

Note:

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

Using the play or record timer

You can set the timer to come on at a certain time to wake you up (play timer) or to record from the radio or the other optional equipments (record timer).

Play timer and record timer cannot be used together.

Turn the unit on and set the clock.

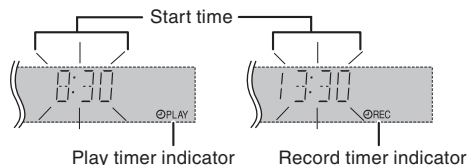
Play timer	Prepare the music source you want to listen to; disc, USB device, internal memory, radio or other optional equipments and set the volume.
Record timer	Insert the USB device (for USB recording) and tune to the radio station (➡ page 10) or select the music port or AUX source (➡ page 16).

- 1** Press [CLOCK/TIMER] repeatedly to select the timer function.



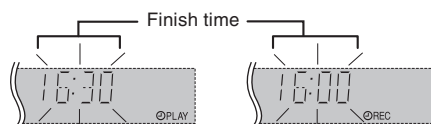
⊕ PLAY : to set the play timer
 ⊕ REC : to set the record timer
 (Proceed to the next step **within 8 seconds**)

- 2** Press [▲/▼] to set the starting time.



- 3** Press [OK] to confirm.

- 4** Repeat steps 2 and 3 to set the finishing time.



- 5** Press [▲/▼] to select the desired source for play timer or record timer.

- 6** Press [OK] to confirm.

For play timer proceed to step 9.
 For record timer continue from step 7 onward.

- 7** Press [▲/▼] to select the desired recording storage location.

- 8** Press [OK] to confirm.

To activate the timer

- 9** Press [⊕ PLAY/REC] repeatedly to turn on your desired timer.



- 10** Press [⏻] to turn off the unit.
 The unit must be turned off for the timer to operate.

Change the settings	Repeat steps 1 to 8 and 10 (→ see above).
Change the volume	1) Press [⊕ PLAY/REC] to clear the timer indicator from the display. 2) Make changes to the volume. 3) Perform steps 9 and 10.
Check the settings	Press [CLOCK/TIMER] repeatedly to select ⊕ PLAY or ⊕ REC.
Cancel	Press [⊕ PLAY/REC] to clear the timer indicator from the display.

Note:

- The play timer will start at the preset time with volume increasing gradually to preset level.
- The record timer will start 30 seconds before the set time with the volume muted.
- The timer comes on at the set time every day if the timer is on.
- The unit must be in the standby mode for the timer to function.
- If you turn the unit off and on again while a timer is functioning, the finish time setting will not be activated.

Using sound effects

Changing the sound quality: Preset EQ

Press [PRESET EQ] repeatedly to select your desired setting.

HEAVY	Adds punch to rock
CLEAR	Clarifies higher frequencies
SOFT	For background music
VOCAL	Adds gloss to vocal
FLAT	No effect

Changing the sound quality: Manual EQ

1 Press [MANUAL EQ] repeatedly to select your desired setting.

BASS	For lower pitch sound
MID	For middle pitch sound
TREBLE	For higher pitch sound

2 Press [◀◀/▶▶] or [▶▶/▶▶] to adjust the level.

Note:

- The level of the pitch is between -4 to +4.
- The changes you make are stored and automatically recalled the next time you select "MANUAL EQ".

Enhancing the stereo sound: SURROUND sound

Enables you to add natural width and depth to the stereo sound.

To activate

Press and hold [-SURROUND] to display "■■■■■" indicator.

To cancel

Press and hold [-SURROUND] again to clear "■■■■■" indicator.

Note:

- Surround sound is less discernible when listening through headphones.
- If interference in FM stereo reception increases, cancel the surround sound effect.

Enjoying the bass: D.BASS

Press [D.BASS] repeatedly to select either "ON D.BASS" or "OFF D.BASS".

Changing the sound quality: RE-MASTER

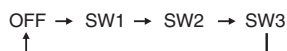
MP3

This feature reproduces the frequencies lost during recording (original soundtrack) to give you a sound closer to the original.

Press and hold [-RE-MASTER] repeatedly to select either "ON RE-MASTER" or "OFF RE-MASTER".

Boosting the super woofer

Press [SUPER WOOFER] repeatedly to select your desired setting.



Note:

This function is not applicable when a headphone is connected.

Using the microphone

The buttons described for “Using the microphone” are mainly using the main unit unless indicated otherwise.

Enjoying the microphone mixing

You can enjoy microphone mixing from various music sources (disc, radio, USB device, internal memory or other optional equipments).

1 Firstly, lower the volume with [MIC VOL, MAX/MIN], connect the microphone (not included) to the microphone jack.

Plug type : Ø 3.5 mm monaural

2 Start playing the music source.

3 Adjust the volume with [+/-, VOLUME] and [MIC VOL, MAX/MIN] and sing along.

Note:

- If a strange noise (howling) is emitted during use, move the microphone away from the speakers, or turn down the microphone volume.
- When you are not using the microphone, disconnect it from the microphone jack, and turn down the microphone volume level to “MIN”.

Using other optional equipments

Note:

All the peripheral components and cables are sold separately.

Avoid interfering with other Panasonic equipment

Other Panasonic audio or video equipment may start functioning when you operate the unit using the supplied remote control.

You can operate this unit in another mode by setting the remote control operating mode to “REMOTE 2”.

The main unit and remote control must be set to the same mode.

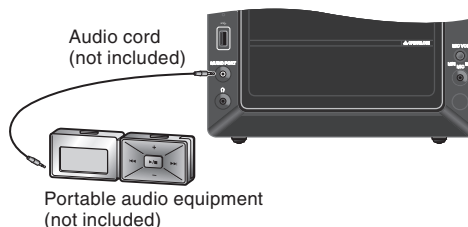
1 Press and hold [MUSIC P./AUX] on the main unit and [2] on the remote control until the main unit’s display shows “REMOTE 2”.

2 Press and hold [OK] and [2] on the remote control for at least 2 seconds.

To change the mode back to “REMOTE 1”, repeat steps 1 and 2 above by replacing [2] with [1].

Connecting and playing a portable audio equipment

This feature enables you to enjoy music from a portable audio equipment.



Switch off the equalizer function (if there is any) of the portable audio equipment before you plug into the MUSIC PORT jack. Otherwise, sound from the speaker may be distorted.

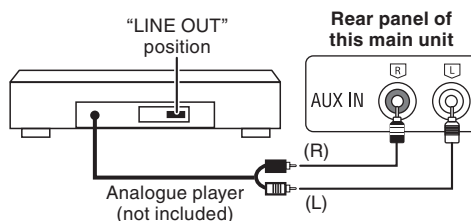
1 Plug the audio cord into the MUSIC PORT jack.

2 Press [MUSIC P./AUX] repeatedly to select “MUSIC PORT”.

3 Play the portable audio equipment. (See the portable audio equipment’s instruction manual.)

Connecting and playing other external unit

You can connect to an analogue player with a built-in phone equalizer.



1 Press [MUSIC P./AUX] repeatedly to select “AUX”.

2 Play the external unit. (See the external unit’s instruction manual.)

Note:

- When units other than those described above are to be connected, please consult your audio dealer.
- Sound distortion may occur when you use an adaptor other than the one supplied.

Troubleshooting guide

Before requesting service, make the following checks. If you are in doubt about some of the check points, or if the solutions indicated in the chart do not solve the problem, consult your dealer for instructions.

■ Common problems		Page
When the unit is in standby mode, the display lights up and changes continuously.	<ul style="list-style-type: none"> Press and hold [■] on the main unit to select "DEMO OFF". 	—
No response from the unit even though it has been turned on.	<ul style="list-style-type: none"> Press [⏻] for more than 10 seconds to turn off the unit. Alternatively, unplug the AC mains lead and plug it in after a lapse of a few seconds. Turn the unit on again. 	—
No response when remote control buttons are pressed.	<ul style="list-style-type: none"> Check that the batteries are installed correctly. 	4
Distorted sound or no sound.	<ul style="list-style-type: none"> Turn the volume up. 	—
	<ul style="list-style-type: none"> Turn off the unit, determine and correct the cause, then turn the unit on again. It may be caused by straining of the speakers through excessive volume or power, and using the unit in a hot environment. 	—
A "humming" sound can be heard during play.	<ul style="list-style-type: none"> An AC mains lead or fluorescent light is near the unit. Keep other appliances and cords away from the unit. 	—

■ Discs		
Incorrect display or play will not start.	<ul style="list-style-type: none"> You have not inserted the disc correctly; insert it correctly. 	8
	<ul style="list-style-type: none"> Disc may be dirty. Wipe it clean. 	—
	<ul style="list-style-type: none"> Replace the disc if it is scratched, warped, or non-standard. 	—
	<ul style="list-style-type: none"> Condensation has formed: Wait 1 to 2 hours for it to evaporate. 	—
The total number of tracks displayed is incorrect. The disc cannot be read. Distorted sound is heard.	<ul style="list-style-type: none"> You have inserted a disc the unit cannot play; insert one it can. 	—
	<ul style="list-style-type: none"> You have inserted a disc that has not been finalised or completely formatted. 	—

■ Radio		
Distorted sound or noise is heard. The stereo indicator flickers or does not light.	<ul style="list-style-type: none"> Use an optional outdoor antenna for FM radio. The antenna should be installed by a competent technician. 	—
A beat sound is heard.	<ul style="list-style-type: none"> Turn the television off or move it away from the unit. 	—
	<ul style="list-style-type: none"> Switch to either BP 1 or BP 2 when in AM tuner mode. 	10
A low hum is heard during AM broadcast.	<ul style="list-style-type: none"> Separate the antenna from other cables and cords. 	—

■ USB		
The USB drive or its contents cannot be read.	<ul style="list-style-type: none"> The USB drive format or its contents is/are not compatible with the system. 	14
	<ul style="list-style-type: none"> The USB host function of this product may not work with some USB devices. 	—
	<ul style="list-style-type: none"> USB devices with storage capacity of more than 32 gigabytes may not work in some instances. 	—
Slow operation of the USB device.	<ul style="list-style-type: none"> Large file size or high memory USB flash drive takes longer time to read. 	—

■ Unit displays		
"NO PLAY"	<ul style="list-style-type: none"> Check the content. 	—
	<ul style="list-style-type: none"> Only MP3 format files can be played. 	—
"F61"	<ul style="list-style-type: none"> Check and correct the speaker cords connection. If this does not fix the problem, consult the dealer. 	5
	<ul style="list-style-type: none"> Disconnect the USB device. Turn the unit off and then turn back on. 	—
	<ul style="list-style-type: none"> Incorrect operation performed. Read the instructions and try again. 	—
"ERROR" (during recording)	<ul style="list-style-type: none"> You are not able to select other playback source (example: radio, USB and etc.) or press [◀◀/▶▶] or [▶▶/▶▶] during recording. Stop the recording function. 	11
	<ul style="list-style-type: none"> You are not able to open the disc tray when recording from AM source. 	—
	<ul style="list-style-type: none"> Select a suitable recording mode (128 KBPS or 192 KBPS) and resume recording. 	13
"PLAYERROR"	<ul style="list-style-type: none"> An unsupported MP3 format is being played. The unit will skip that track and play the next one. 	—

"VBR—"	<ul style="list-style-type: none"> The unit cannot display the remaining play time for variable bit rate (VBR) tracks. 	—
"HI-SPEED CAN'T REC"	<ul style="list-style-type: none"> You cannot use high-speed recording while using analogue mode. Change to digital mode or use normal recording. 	13
"DEVICE FULL"	<ul style="list-style-type: none"> You cannot perform recording because the total USB remaining REC (recording) time of the USB device is less than the total time of the music source. Change to a USB device which has the appropriate recording time and perform the recording again. 	11

System memory reset (Initialisation)

When the following situations occur, refer to the instructions below to reset the memory:

- There is no response when buttons are pressed.
- You want to clear and reset the memory contents.

To reset system memory

- 1 Disconnect the AC mains lead. (Wait at least 3 minutes before proceeding to step 2.)**
- 2 While pressing and holding down [⏻] on the main unit, reconnect the AC mains lead.**
"-----" appears on the display panel.
- 3 Release [⏻].**
All the settings are returned to the factory preset.
You will need to reset the memory items.

Maintenance

If the surfaces are dirty

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.

Specifications

AMPLIFIER SECTION

RMS output power stereo mode

Front High Ch (both channels driven)	140 W per channel (4 Ω), 1 kHz, 10% THD
Front Low Ch (both channels driven)	160 W per channel (3 Ω), 1 kHz, 10% THD
Total RMS stereo mode power	600 W

FM/AM TUNER, TERMINALS SECTION

Preset station	FM 30 stations AM 15 stations
-----------------------	----------------------------------

Frequency Modulation (FM)

Frequency range	87.50 MHz to 108.00 MHz (50 kHz step)
Antenna terminals	75 Ω (unbalanced)

Amplitude Modulation (AM)

Frequency range	522 kHz to 1629 kHz (9 kHz step) 520 kHz to 1630 kHz (10 kHz step)
	RCA pin jack

Aux input

Music port (front)

Sensitivity	100 mV, 4.7 kΩ
Terminal	Stereo, 3.5 mm jack

Headphone jack

Terminal	Stereo, 3.5 mm jack
Output level (CD, 1 kHz, -20 dB)	32 Ω (Max)

Mic jack

Sensitivity	0.7 mV, 1.1 kΩ
Terminal	Mono, 3.5 mm jack (1 system)

DISC SECTION

Disc played (8 cm or 12 cm)

- (1) CD-Audio (CD-DA)
- (2) CD-R/RW (CD-DA, MP3* formatted disc)
- (3) MP3*

*MPEG-1 Layer 3, MPEG-2 Layer 3

Pick up

Wavelength	795 nm (CD)
------------	-------------

Audio output (disc)

Number of channels	2 ch (FL, FR)
FL	= Front left channel
FR	= Front right channel

USB SECTION

USB port

USB Standard	USB 2.0 full speed
Media file format support	MP3 (*.mp3)
USB device file system	FAT12, FAT16, FAT32
USB port power	500 mA (Max)
Bit rate	16 kbps to 320 kbps (playback)

USB recording

Bit rate	128 kbps / 192 kbps / 320 kbps
USB recording speed	1x, 4x (CD only)
Recording file format	MP3 (*.mp3)

MEMORY SECTION

Memory

Memory size	2 GB
Media file format support	MP3 (*.mp3)

Memory recording

Bit rate	128 kbps / 192 kbps / 320 kbps
Memory recording speed	1x, 4x (CD only)
Recording file format	MP3 (*.mp3)
Capacity of total songs recorded	510 songs
(Use 128 kbps, approximately 1 song = 4 mins)	

SPEAKER SECTION

Type	3 way, 3 speaker system (Bass reflex)
-------------	---------------------------------------

Speaker unit(s)

Super woofer	20 cm cone type
Woofer	10 cm cone type
Tweeter	6 cm cone type

Impedance

4 Ω (high), 3 Ω (low)

Output sound pressure

86 dB/W (1 m)

Frequency range

48 Hz to 26 kHz (-16 dB)

66 Hz to 20 kHz (-10 dB)

Dimensions (WxHxD)

250 mm x 414 mm x 301 mm

Mass

5.6 kg

GENERAL

Power supply	AC 220 to 240 V, 50 Hz
Power consumption	115 W
Dimensions (WxHxD)	250 mm x 336 mm x 245 mm
Mass	3.4 kg
Operating temperature range	0°C to +40°C
Operating humidity range	35% to 80% RH (no condensation)

Power consumption in standby mode: 0.3 W (approximate)

Note:

1. Specifications are subject to change without notice.
- Mass and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

Panasonic Corporation
Web Site: <http://panasonic.net>

En

RQTX1098-B
L0310CH0