Panasonic

Operating Instructions

CD Stereo System

Model No. **SC-AKX56**

Thank you for purchasing this product.
For optimum performance and safety, please read these instructions carefully.
Please keep this manual for future reference.

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

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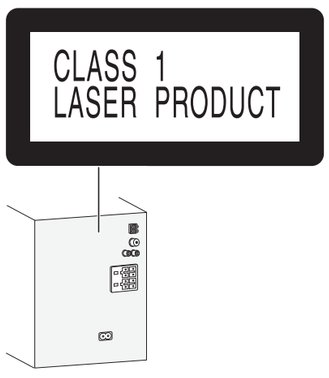
GN En
RQT9793-L
L0313HH0

Do the procedures with the remote control. You can also use the buttons on the main unit if they are the same.

Your system and the illustrations can look differently.

These operating instructions are applicable to the following system.

System	SC-AKX56
Main unit	SA-AKX56
Speakers	SB-AKX76



Safety precautions

WARNING!

Unit

- To reduce the risk of fire, electric shock or product damage,
  - Do not expose this unit to rain, moisture, dripping or splashing.
  - Do not place objects filled with liquids, such as vases, on this unit.
  - Use only the recommended accessories.
  - Do not remove covers.
  - Do not repair this unit by yourself. Refer servicing to qualified service personnel.
- Do not let metal objects fall inside this unit.

CAUTION!

Unit

- To reduce the risk of fire, electric shock or product damage,
  - Do not install or place this unit in a bookcase, built-in cabinet or in another confined space. Ensure this unit is well ventilated.
  - Do not obstruct this unit's ventilation openings with newspapers, tablecloths, curtains, and similar items.
  - Do not place sources of naked flames, such as lighted candles, on this unit.
- Set the unit up on an even surface away from direct sunlight, high temperatures, high humidity, and excessive vibration.
- This unit is intended for use in moderate climates.
- The mains plug is the disconnecting device. Install this unit so that the mains plug can be unplugged from the socket outlet immediately.
- This unit may receive radio interference caused by mobile telephones during use. If such interference occurs, please increase separation between this unit and the mobile telephone.
- This unit utilizes a laser. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Battery

- Danger of explosion if battery is incorrectly replaced. Replace only with the type recommended by the manufacturer.
- When disposing the batteries, please contact your local authorities or dealer and ask for the correct method of disposal.
- Do not heat or expose to flame.
- Do not leave the battery(ies) in a car exposed to direct sunlight for a long period of time with doors and windows closed.
- Do not break open or short-circuit the battery.
- Do not charge the alkaline or manganese battery.
- Do not use the battery if the cover has peeled off.
- Remove the battery if you do not use the remote control for a long period of time. Keep in a cool, dark area.

– 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.

Supplied accessories

Check and identify the supplied accessories.

- ☐ **1 x AC mains lead**
- ☐ **1 x AM loop antenna**
- ☐ **1 x FM indoor antenna**

- ☐ **1 x Remote control battery**
- ☐ **1 x Remote control** (N2QAYB000850)

Limited warranty (ONLY FOR AUSTRALIA)

Panasonic Warranty

1. The product is warranted for 12 months from the date of purchase. Subject to the conditions of this warranty Panasonic or its Authorised Service Centre will perform necessary service on the product without charge for parts or labour, if in the opinion of Panasonic, the product is found to be faulty within the warranty period.
2. This warranty only applies to Panasonic products purchased in Australia and sold by Panasonic Australia or its Authorised Distributors or Dealers and only where the products are used and serviced within Australia or it's territories. Warranty cover only applies to service carried out by a Panasonic Authorised Service Centre and only if valid proof of purchase is presented when warranty service is requested.
3. This warranty only applies if the product has been installed and used in accordance with the manufacturer's recommendations (as noted in the operating instructions) under normal use and reasonable care (in the opinion of Panasonic). The warranty covers normal domestic use only and does not cover damage, malfunction or failure resulting from use of incorrect voltages, incorrect installation, accident, misuse, neglect, build-up of dirt or dust, abuse, maladjustment of customer controls, mains supply problems, thunderstorm activity, infestation by insects or vermin, tampering or repair by unauthorised persons (including unauthorised alterations), introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, exposure to abnormally corrosive conditions or any foreign object or matter having entered the product.
4. This warranty does not cover the following items unless the fault or defect existed at the time of purchase:
   (a) Cabinet Part(s) (e) DVD, Blu-ray or Recordable Discs
   (b) Video or Audio Tapes (f) Video / Audio Heads from wear and tear in normal use
   (c) SD cards or USB devices (g) Information stored on Hard Disk Drive, USB stick or SD card
   (d) User replaceable Batteries (h) DTV reception issues caused by TV Aerial / Cabling / Wall socket(s) etc
5. Some products may be supplied with Ethernet connection hardware. The warranty is limited on such products and will not cover
   (a) Internet and or DLNA connection / setup related problems
   (b) Access fees and or charges incurred for internet connection
   (c) The use of incompatible software or software not specifically stipulated in the product operations manual; and
   (d) Any indirect or consequential costs associated with the incorrect use or misuse of the hardware, its connection to the internet or any other device.
6. To claim warranty service, when required, you should:
   - Telephone Panasonic's Customer Care Centre on 132600 or visit our website referred to below and use the Service Centre Locator for the name/address of the nearest Authorised Service Centre.
   - Send or take the product to a Panasonic Authorised Service Centre together with your proof of purchase receipt as a proof of purchase date. Please note that freight and insurance to and / or from your nearest Authorised Service Centre must be arranged by you.
   - Note that home or pick-up/delivery service is available for the following products in the major metropolitan areas of Australia or the normal operating areas of the nearest Authorised Service Centres:
     - Plasma/LCD televisions / displays (screen size greater than 103 cm)
7. The warranties hereby conferred do not extend to, and exclude, any costs associated with the installation, de-installation or re-installation of a product, including costs related to the mounting, de-mounting or remounting of any screen, (and any other ancillary activities), delivery, handling, freighting, transportation or insurance of the product or any part thereof or replacement of and do not extend to, and exclude, any damage or loss occurring by reason of, during, associated with, or related to such installation, de-installation, re-installation or transit.

Panasonic Authorised Service Centres are located in major metropolitan areas and most regional centres of Australia, however, coverage will vary dependant on product. For advice on exact Authorised Service Centre locations for your product, please telephone our Customer Care Centre on 132600 or visit our website and use the Service Centre Locator.

In addition to your rights under this warranty, Panasonic products come with consumer guarantees that cannot be excluded under the Australian Consumer Law. If there is a major failure with the product, you can reject the product and elect to have a refund or to have the product replaced or if you wish you may elect to keep the goods and be compensated for the drop in value of the goods. You are also entitled to have the product repaired or replaced if the product fails to be of acceptable quality and the failure does not amount to a major failure.

If there is a major failure in regard to the product which cannot be remedied then you must notify us within a reasonable period by contacting the Panasonic Customer Care Centre. If the failure in the product is not a major failure then Panasonic may choose to repair or replace the product and will do so in a reasonable period of time from receiving notice from you.

THIS WARRANTY CARD AND THE PURCHASE DOCKET (OR SIMILAR PROOF OF PURCHASE) SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES

If you require assistance regarding warranty conditions or any other enquiries, please visit the
Panasonic Australia website **www.panasonic.com.au** or contact by phone on **132 600**
If phoning in, please ensure you have your operating instructions available.

Panasonic Australia Pty. Limited
ACN 001 592 187 ABN 83 001 592 187
1 Innovation Road, Macquarie Park NSW 2113

PRO-031-F11 Issue: 4.0 01-01-2011

Specifications

Amplifier section

RMS output power stereo mode

Front Hi	250 W per channel (3 Ω), 1 kHz, 30% THD
Front Lo	250 W per channel (3 Ω), 100 Hz, 30% THD
Total RMS stereo mode power	1000 W (30% THD)

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)
Music port (front)	
Sensitivity	100 mV, 4.7 kΩ
Terminal	Stereo, 3.5 mm jack
AUX input	Pin jack

Disc section

Disc played (8 cm or 12 cm)	CD, CD-R/RW (CD-DA, MP3※)
Pick up	
Wavelength	790 nm (CD)
Audio output (disc)	
Number of channels	2 ch (FL, FR)
FL = Front left channel	
FR = Front right channel	

※ MPEG-1 Layer 3

Internal memory section

Memory	
Memory size	2 GB
Media file format support	MP3 (*.mp3)
Memory recording	
Bit rate	128 kbps
Memory recording speed	1x, 3x max (CD only)
Recording file format	MP3 (*.mp3)
Capacity of total songs recorded	510 songs
(use 128 kbps, approximately 1 song = 4 mins)	

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
USB recording speed	1x, 3x max (CD only)
Recording file format	MP3 (*.mp3)

Speaker section

Type	3 way, 3 speaker system (bass reflex)
Speaker unit(s)	
Super Woofer	20 cm cone type
Woofer	8 cm cone type
Tweeter	6 cm cone type
Impedance	High 3 Ω / Low 3 Ω
Output sound pressure	86 dB/W (1 m)
Frequency range	42 Hz to 28 kHz (–16 dB) 46 Hz to 23 kHz (–10 dB)
Dimensions (W x H x D)	300 mm x 401 mm x 268 mm
Mass	5.5 kg

General

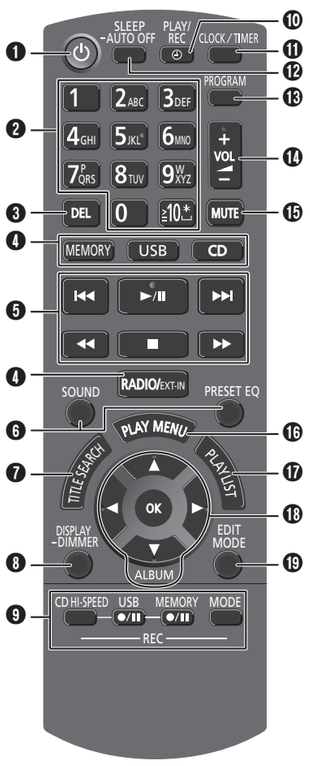
Power supply	AC 220 to 240 V, 50 Hz
Power consumption	108 W
Dimensions (W x H x D)	220 mm x 334 mm x 250 mm
Mass	3.3 kg
Operating temperature range	0°C to +40°C
Operating humidity range	35% to 80% RH (no condensation)

Power consumption in standby mode
0.3 W (approximate)

Note:

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

Overview of controls



❶ **Standby/on switch** [⏻], [⏻/I]
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.

❷ Alphanumeric buttons
To select a 2-digit number
Example: 16: [≧10]→[1]→[6]
To set a character
Example: B: [2]→[2]

❸ Delete a programmed track
Delete a selected track in a playlist

❹ Select audio source

❺ Basic playback control

❻ Select the sound effects

❼ Start the title search for internal memory

❽ View content information
Decrease the brightness of the display panel
Press and hold the button to use this function.
To cancel, press and hold the button again.

❾ Recording operation control

❿ Set the play timer and record timer

⓫ Set the clock and timer

⓬ Set the sleep timer
Automatically switch off the system
The auto off function switches off the system (except in radio source) if you do not use the system for 30 minutes.
Press and hold the button to use this function.
To cancel, press and hold the button again.

⓭ Set the program function

⓮ Adjust the volume of the system

⓯ **Mute the sound of the system**
Press the button again to cancel.
"MUTE" is also cancelled when you adjust the volume or when you switch off the system.

⓰ Set the play menu item

⓱ Internal memory playlist operation

⓲ Select the option

⓳ Set the edit mode for USB and internal memory

⓴ **Internal memory playlist direct buttons**
Press and hold to add a track to the corresponding playlist.
Press to select the playlist.

㉑ Remote control sensor
Distance: Within approximately 7 m
Angle: Approximately 20° up and down, 30° left and right

㉒ USB port (⭠)
USB recording indicator

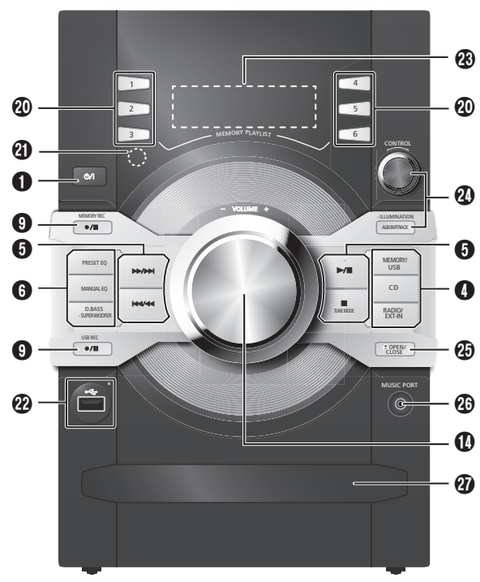
㉓ Display panel

㉔ Browse playlist of the internal memory
Browse tracks or albums
CD
Turn [CONTROL] to browse the track.
Press [▶/II] to start playback from the selection.
MP3
Press [ALBUM/TRACK] to select album or track and then turn [CONTROL] to browse.
Press [▶/II] to start playback from the selection.
Set the illumination effect
Press and hold [– ILLUMINATION] and then turn [CONTROL] to select the desired setting.

㉕ Open or close the disc tray

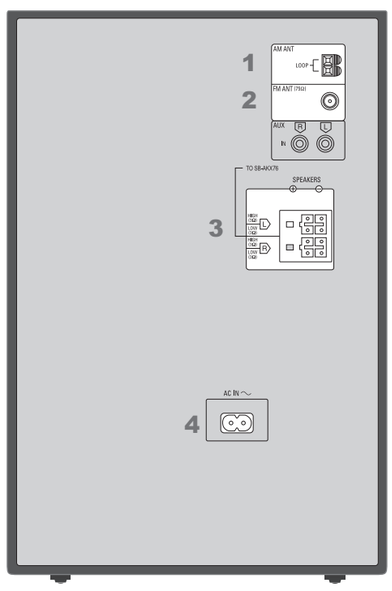
㉖ Music port jack

㉗ Disc tray

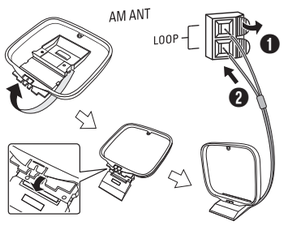


Making the connections

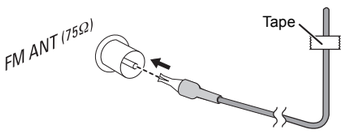
Connect the AC mains lead only after all the other connections have been made.



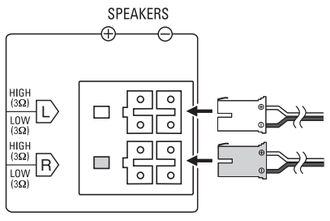
1 Connect the AM loop antenna.
Stand the antenna up on its base until it clicks.



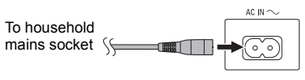
2 Connect the FM indoor antenna.
Place the antenna where reception is best.



3 Connect the speakers.
Connect the speaker cables to the terminals of the same colour.



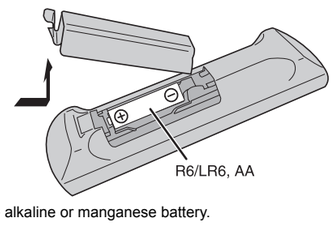
4 Connect the AC mains lead.



Do not use an AC mains lead from other equipment.

Conserving power
The system consumes approximately 0.3 W when it is in standby mode. Disconnect the power supply if you do not use the system.
Some settings will be lost after you disconnect the system. You have to set them again.

Preparing the remote control



Use alkaline or manganese battery.

Install the battery so that the poles (+ and –) align with those in the remote control.

Placement of speakers

Put the speakers so that the tweeter is on the outside.

Use only the supplied speakers.
You can cause damage to the system and decrease the sound quality if you use other speakers.

Note:

- Keep your speakers more than 10 mm from the main unit for ventilation.
- Put the speakers on a flat safe surface.
- These speakers do not have magnetic shielding. Do not put them near TVs, PCs or other equipment easily influenced by magnetism.
- When you play at high levels for a long period, it can cause damage to the speakers and decrease the life of the speakers.
- Decrease the volume in these conditions to prevent damage:
  - When the sound is distorted.
  - When you adjust the sound quality.

CAUTION!

- **Use the speakers only with the recommended system. If not, you can cause damage to the amplifier and speakers and can cause a fire. Consult an approved service personnel if damage occurs or if there is a sudden apparent change in performance.**
- **Do the procedures included in these instructions when you attach the speakers.**

Sound and illumination effects

Sound effects

BASS MID TREBLE	1. Press [SOUND] to select "BASS", "MID" or "TREBLE". 2. Press [◀, ▶] to adjust the level (-4 to +4). ***Using the main unit*** 1. Press [MANUAL EQ] to select "BASS", "MID" or "TREBLE". 2. Press [I◀◀/◀◀] or [▶▶/▶▶I] to adjust the level.
SURROUND	1. Press [SOUND] to select "SURROUND". 2. Press [◀, ▶] to select "ON SURROUND" or "OFF SURROUND".
INPUT LEVEL (For music port source)	1. Press [SOUND] to select "INPUT LEVEL". 2. Press [◀, ▶] to select "NORMAL" or "HIGH". **Note:** Select "NORMAL" if the sound is distorted during "HIGH" input level.
SUPERWOOFER	1. Press [SOUND] to select "SUPERWOOFER". 2. Press [◀, ▶] to select "SW1", "SW2", "SW3" or "OFF". ***Using the main unit*** 1. Press and hold [–SUPER WOOFER]. 2. Press [I◀◀/◀◀] or [▶▶/▶▶I] to select the desired setting.
RE-MASTER MP3	1. Press [SOUND] to select "RE-MASTER". 2. Press [◀, ▶] to select "ON RE-MASTER" or "OFF RE-MASTER".
D.BASS	1. Press [SOUND] to select "D.BASS". 2. Press [◀, ▶] to select "ON D.BASS", "AUTO D.BASS" or "OFF D.BASS". ***Using the main unit*** Press [D.BASS] to select "ON D.BASS", "AUTO D.BASS" or "OFF D.BASS".
PRESET EQ	Press [PRESET EQ] to select "HEAVY", "SOFT", "CLEAR", "VOCAL" or "FLAT".

Illumination effects

By main unit only
You can change the illumination colour on this system.

1 Press and hold [– ILLUMINATION].

2 Within 5 seconds, turn [CONTROL] to select the desired setting.

Disc

Playing disc

1 Press [⏏ OPEN/CLOSE] on the main unit to open the disc tray.
Put in a disc with the label facing up.
Press [⏏ OPEN/CLOSE] again to close the disc tray.

2 Press [CD] and then press [►/II] to start playback.

Stop playback	Press [■].
Pause playback	Press [►/II]. Press again to continue playback.
Skip album MP3	Press [▲, ▼].
Skip track	Press [I◄◄] or [►►I] (main unit: [I◄◄/◄◄] or [►►/►►I]).
Search through track	Press and hold [◄◄] or [►►] (main unit: [I◄◄/◄◄] or [►►/►►I]).

Viewing available information

You can view the available information on the display panel.

Press [DISPLAY].

Note:
- Maximum characters that can be shown: approximately 32
- This system supports ver. 1.0 and 1.1 ID3 tags.
- Text data that the system does not support can show differently.

Play menu

1 Press [PLAY MENU] to select "PLAYMODE" or "REPEAT".

2 Press [◄, ►] and then press [OK] to select the desired mode.

PLAYMODE	
OFF PLAYMODE	Play all tracks.
1-TRACK 1-TR	Play one selected track on the disc. Press the alphanumeric buttons to select the track.
1-ALBUM 1-ALB MP3	Play one selected album on the disc. Press [▲, ▼] to select the album.
RANDOM RND	Play a disc randomly.
1-ALBUM RANDOM 1-ALB RND MP3	Play all tracks in one selected album randomly. Press [▲, ▼] to select the album.
REPEAT	
ON REPEAT ↻	Repeat playback.
OFF REPEAT	Cancel repeat playback.

Note:
The setting returns to the default "OFF PLAYMODE" when you open the disc tray.

Program playback

This function allows you to program up to 24 tracks.

1 Press [PROGRAM] in the stop mode.
"PGM" is shown.

2 CD
Press the alphanumeric buttons to select the desired track.
Do this step again to program other tracks.
MP3
1. **Press [▲, ▼] to select the desired album.**
2. **Press [►►I] and then press the alphanumeric buttons to select the desired track.**
3. **Press [OK].**

Do these steps again to program other tracks.

3 Press [►/II] to start playback.

Cancel program mode	Press [PROGRAM] in the stop mode.
Check program contents	Press [I◄◄] or [►►I] when "PGM" is shown in the stop mode.
Clear the last track	Press [DEL] in the stop mode.
Clear all programmed tracks	Press [■] in the stop mode. "CLR ALL" is shown. Within 5 seconds, press [■] again.

Note:
- You cannot use program playback together with "PLAYMODE" function.
- The program memory is cleared when you open the disc tray.

Note on disc

- This system can play CD-R/RW with CD-DA or MP3 format content.
- Some CD-R/RW cannot be played because of the condition of the recording.
- MP3 files are defined as tracks and folders are defined as albums.
- This system can access up to:
  – CD-DA: 99 tracks
  – MP3: 999 tracks, 255 albums and 20 sessions
- Disc must conform to ISO9660 level 1 or 2 (except for extended formats).
- Recordings will not necessarily be played in the order you recorded them.

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

Radio

Manual tuning

1 Press [RADIO/EXT-IN] to select "FM" or "AM".

2 Press [◄◄] or [►►] to select the frequency of the required station.
To tune automatically, press and hold the button until the frequency starts changing quickly.
"ST" is shown when a stereo broadcast is being received.

Using the main unit

1 Press [RADIO/EXT-IN] to select "FM" or "AM".

2 Press [TUNE MODE] to select "MANUAL".

3 Press [I◄◄/◄◄] or [►►/►►I] to select the frequency of the required station.

Improving the sound quality

When "FM" is selected

1 Press [PLAY MENU] to select "FM MODE".

2 Press [◄, ►] to select "MONO" and then press [OK].
To cancel, select "STEREO".
"MONO" is also cancelled when you change the frequency.

When "AM" is selected

1 Press [PLAY MENU] to select "B.PROOF".

2 Press [◄, ►] to select from "BP 1" to "BP 8" that provides the best reception and then press [OK].

Memory presetting

30 FM and 15 AM stations can be preset.

Automatic presetting

1 Press [OK] to select "LOWEST" or "CURRENT" frequency.

2 Press [PLAY MENU] to select "A.PRESET" and then press [OK].
"START?" is shown.

3 Press [OK] to start presetting.
To cancel, press [■].

Manual presetting

1 Press [◄◄] or [►►] to tune in to the station.

2 Press [PROGRAM].

3 Press the alphanumeric buttons to select a preset number.
Do steps 1 through 3 again to preset more stations.
The new station replaces any station that occupies the same preset number.

Selecting a preset station

Press the alphanumeric buttons, [I◄◄] or [►►I] to select the preset station.

Using the main unit

1 Press [TUNE MODE] to select "PRESET".

2 Press [I◄◄/◄◄] or [►►/►►I] to select the preset station.

AM allocation setting

By main unit only

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

1 Press [RADIO/EXT-IN] to select "FM" or "AM".

2 Press and hold [RADIO/EXT-IN].

After a few seconds, the display panel shows the current minimum radio frequency. Release the button when the minimum frequency changes.
- To go back to the initial setting, do the above steps again.
- After you change the setting, preset frequencies are erased.

USB and internal memory

You can connect and play music tracks from your USB device.

You can also record sound or music tracks into the 2 GB internal memory in ".mp3" format.

This system 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 device

Preparation
Before you connect a USB device to the system, make sure you do a backup of the data.
Do not use a USB extension cable. The system cannot recognise USB device connected through a cable.

Decrease the volume and connect the USB device to the USB port.
Hold the main unit when connecting or disconnecting the USB device.

Recording to a USB device or the internal memory

Panasonic cannot be held responsible on the action of consumer to record copyrighted contents which can cause copyright infringement.

Note:
- All recordings are in ".mp3" format.
- You cannot do recording when you are using random playback mode.
- Repeat playback mode is off during recording.
- A new album is added each time you do a recording.
- The sequence of album can change after the recording.
- The recordings are kept in a folder named "REC_DATA" in the USB device or the internal memory.

Basic recording

1 Select the source you want to record.
CD
Prepare the disc playback mode.

Record all tracks	Select "OFF PLAYMODE" (➡"Play menu").
Record programmed tracks	Program the tracks you want (➡"Program playback").
Record a single track	Select "1-TRACK" (➡"Play menu").

Make sure the disc is stopped.
Radio
Tune in to the radio station.
External equipment
Connect and play the equipment
(➡"External equipment").

2 Press [MEMORY REC ●/II] or [USB REC ●/II] to start recording.
The name of the folder that keeps the recording is shown.

Stop recording	Press [■]. "WRITING" is shown.
Pause recording	Press [MEMORY REC ●/II] or [USB REC ●/II] during recording. Press again to continue recording. **Note:** You can pause during recording from the radio, music port or AUX (except in SYNCHRO mode). A track mark is added every time you pause (➡"Adding track marks").

Note:
- Wait for a few seconds for the system to prepare the USB device before you start recording.
- USB recording indicator blinks during USB recording.

CD
- When the next track is being recorded, it will be shown on the display.

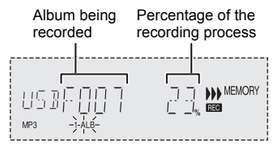
Recording MP3 tracks

MP3
You can record MP3 tracks from a disc to a USB device or the internal memory.
You can also record MP3 tracks from a USB device to the internal memory, or vice versa.

1 Prepare the source you want to record.

Record all tracks	Select "OFF PLAYMODE" (➡"Play menu").
Record programmed tracks	Program the tracks you want (➡"Program playback").
Record specified album or track	Select "1-ALBUM" or "1-TRACK" (➡"Play menu").

2 Press [MEMORY REC ●/II] or [USB REC ●/II] to start recording.
Example: Recording an album from the USB device to the internal memory.



Stop recording	Press [■]. Recording stops at the last fully recorded track in the album. For example, if you stop recording during the fourth track, only the first three tracks are recorded. "NO FILE RECORDED" is shown if no track is recorded.

Note:
- Some tracks can use a longer time to record.
- Some tracks cannot be recorded because of the condition of the source.
- The recorded folder name may be different from the original folder because of the auto rename function.

Basic playback

1 Press [MEMORY] or [USB] (main unit: [MEMORY/USB]) to select "MEMORY" or "USB".

2 Press [►/II] to start playback.

Stop playback	Press [■]. "RESUME" is shown. Press [►/II] to continue playback. OR Press [■] two times to stop the playback fully.

For other operations, refer to "Disc".

Viewing available information

You can view the available information on the display panel.

Press [DISPLAY].

In the stop mode	Available storage space or remaining recording time of USB device or internal memory.
During recording	Information that is related to recording.
During playback or pause	Information of the current track.

Title search

MEMORY
You can search for the desired track in the internal memory with title search.

1 Press [TITLE SEARCH].
"♪" blinks.

2 Press the alphanumeric buttons or [▲, ▼] to select the desired character then press [►] to select next character.
To delete a character, press [DEL].

3 Press [OK].
Press [◄, ►] to search for previous or next match.
"NOTFOUND" is shown if there is no match.

4 Press [OK] to confirm and play the track.
To cancel, press [TITLE SEARCH].

Note:
- This function skip tracks that are created with basic recording (➡"Basic recording").
- This function does not work with random or program playback.
- The character is not case sensitive.
- A same track title display will be shown for tracks with the same title.

Playlist

MEMORY
You can keep up to 6 playlists in the internal memory.
Each playlist can keep up to 99 tracks.

Adding tracks to the playlist

1 Select the track you want to add to the playlist.

2 Press [PLAYLIST].
"♫" blinks.

3 Press and hold the alphanumeric button (1 to 6) to add the track to the corresponding playlist.
Or press and hold [1] to [6] on the main unit to add the track to the corresponding playlist.
Do steps 1 through 3 again to add more tracks.

Listening to the playlist

1 Press [PLAYLIST] and then the alphanumeric button (1 to 6) to select the playlist.
Or press [1] to [6] on the main unit to select the playlist.

2 Press [►/II] to start playback.

Cancel playlist playback	Press [PLAYLIST] two times until "♫" is cleared. OR Press the selected [1] to [6] on the main unit. "♫" is cleared.
View contents of the playlist	Press [I◄◄] or [►►I] in the stop mode. OR Turn [CONTROL] in the stop mode.
Clear a single track	In the stop mode, press [I◄◄] or [►►I] to select the desired track you want to clear and then press [DEL]. "DELETE?" is shown. Within 5 seconds, press [OK].
Clear all tracks in a playlist	In the stop mode, press [■]. "CLEAR?" is shown. Within 5 seconds, press [OK].

Advanced recording functions

High-speed recording

CD
Recording speed:
CD: Three times (3x) the normal speed.
CD-RW: Two times (2x) the normal speed.

1 Put in the disc you want to record.

2 Press [CD].

3 Press [CD HI-SPEED REC] and [USB REC ●/II] or [MEMORY REC ●/II] together to start recording.

Note:
- If you cannot record at high-speed because of the condition of the disc, record the CD at normal speed.
- The sound is muted during high-speed recording.

Adding track marks

When recording from radio or external equipment, you can divide tracks using various modes.

Before recording
Press [REC MODE] to select the desired setting.

MANUAL	Add a track mark manually. **Press [OK] during recording to add a track mark.**
TIME MARK	A track is automatically divided at 5-minute intervals.
SYNCHRO (For music port or AUX source)	Recording starts automatically when the other equipment starts to play. Recording pause when it detects silence for 3 seconds.

Note:
- During recording, if you press [OK] or pause recording while using TIME MARK mode, the 5-minute counter is reset.
- You cannot add track marks manually in SYNCHRO mode.

Deleting the recorded tracks

1 Press [MEMORY] or [USB] (main unit: [MEMORY/USB]) to select "MEMORY" or "USB".

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

3 Press [I◄◄] or [►►I] to select the desired track.

4 Press [EDIT MODE] to select the desired mode.

TRACKDEL	Delete a single track.
ALBUMDEL	Delete one album (maximum 999 tracks).
FORMAT	Format the USB device.
ALL DEL	Delete all albums in the internal memory.

5 Press [OK].
The selected item to be deleted is shown.

6 Press [OK].
"SURE?NO" is shown.

7 Press [◄, ►] to select "YES" or "NO" and then press [OK].
Select "YES" to confirm the deletion.
"WRITING" is shown.

Note on USB

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

Note:
- 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.
- NTFS file system is not supported (only FAT 12/16/32 file system is supported).
- Some files can fail to work because of the sector size.

Clock and timers

Setting the clock

This is a 24-hour clock.

1 Press [CLOCK/TIMER] to select "CLOCK".

2 Within 10 seconds, press [▲, ▼] to set the time.

3 Press [OK].

Press [CLOCK/TIMER] to show the clock for a few seconds.

Note:
Reset the clock regularly to maintain accuracy.

Play and record timer

You can set the timer to come on at a certain time to:
- Wake you up (play timer)
- Record from the radio or the external equipment (record timer)

Play timer and record timer cannot be used together.

Preparation
Set the clock.

1 Press [CLOCK/TIMER] to select "◷PLAY" or "◷REC".

2 Within 10 seconds, press [▲, ▼] to set the start time.

3 Press [OK].

4 Do steps 2 and 3 again to set the end time.

5 Press [▲, ▼] to select the source you want to play or record and then press [OK].

6 For record timer, press [▲, ▼] to select "MEMORY" or "USB" to keep the recording and then press [OK].

To start the timer

1 Prepare the audio source.

Play timer	Prepare the music source you want to listen to (disc, USB, internal memory, radio or external equipment) and set the volume.
Record timer	Connect the USB device (for USB recording) and tune to the radio station or select the external equipment.

2 Press [PLAY/REC ◷] to select "◷PLAY" or "◷REC".
"◷PLAY" or "◷REC" is shown.
To cancel, press [PLAY/REC ◷] again.
The system must be switched off for the timer to operate.

To check the settings
Press [CLOCK/TIMER] to select "◷PLAY" or "◷REC".

Note:
- The play timer starts at a low volume and increases gradually to the preset level.
- The record timer starts 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.
- If you switch off the system and switch on again while a timer is in operation, the timer will not stop at the end time.

Sleep timer

The sleep timer switches off the system after the set time.

Press [SLEEP] to select the setting (in minutes).
To cancel, select "OFF".

30MIN → 60MIN → 90MIN → 120MIN → OFF

To show the remaining time
Press [SLEEP].

Note:
- The sleep timer can be used together with the play timer.
- The sleep timer always comes first. Be sure not to set an overlap of timers.

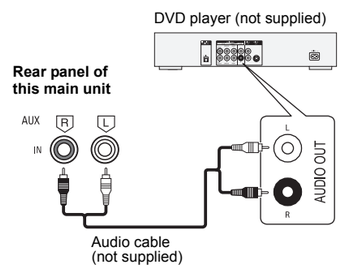
External equipment

Preparation
- Disconnect the AC mains lead.
- Switch off all equipment and read the appropriate operating instructions.

Note:
Components and cables are sold separately.

Using the auxiliary input

You can connect a VCR, DVD player etc. and listen to the audio through this system.



1 Connect the external equipment.

2 Press [RADIO/EXT-IN] to select "AUX".

3 Play the external equipment.

Note:
- If you want to connect equipment other than those described, refer to the audio dealer.
- Sound distortion can occur when you use an adaptor.

Using the music port

You can play music from a portable audio equipment.

Preparation
Switch off the equalizer (if any) of the portable audio equipment to prevent sound distortion.
Decrease the volume of the system and the portable audio equipment before you connect or disconnect the portable audio equipment.

1 Connect the portable audio equipment.
Plug type: Ø 3.5 mm stereo (not supplied)

2 Press [RADIO/EXT-IN] to select "MUSIC PORT".

3 Play the portable audio equipment.

Troubleshooting

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

Common problems

The display panel lights up and changes continuously in standby mode.
- Press and hold [■] on the main unit to select "DEMO OFF".

No operations can be done with the remote control.
- Examine that the battery is installed correctly.

Sound is distorted or no sound.
- Adjust the volume of the system.
- Switch off the system, determine and correct the cause, then switch the system on again. It can be caused by straining of the speakers through excessive volume or power, and when using the system in a hot environment.

A humming sound can be heard during playback.
- An AC mains lead or fluorescent light is near the cables. Keep other appliances and cords away from the cables of this system.

The sound level reduces.
- The protection circuit has been activated due to the continuous use at high volume output. This is to protect the system and maintain the sound quality.

Disc

Display not shown correctly.
Playback does not start.
- You have not put in the disc correctly. Put it in correctly.
- Disc is dirty. Clean the disc.
- Replace the disc if it is scratched, warped, or non-standard.
- There is condensation. Let the system dry for 1 to 2 hours.

The total number of tracks displayed is incorrect.
The disc cannot be read.
Distorted sound is heard.
- You put in a disc that the system cannot play. Change to a playable disc.
- You put in a disc that has not been finalised.

Radio

Sound is distorted.
- Use an optional FM outdoor antenna. The antenna should be installed by a competent technician.

A beat sound is heard.
- Switch off the TV or move it away from the system.
- When in AM tuner mode, select from "BP 1" to "BP 8" that provides the best reception.

A low hum is heard during AM broadcasts.
- Move the antenna away from other cables and cords.

USB

The USB device or the contents in it cannot be read.
- The format of the USB device or the contents in it is/are not compatible with the system.
- USB devices with storage capacity of more than 32 GB cannot work in some conditions.

Slow operation of the USB device.
- Large content size or large memory USB device takes longer time to read.

Main unit displays

"AC LOW"
- The household AC power supply is fluctuating. The sound level of the system will reduce gradually to protect the system.

"DEVICE FULL"
- You cannot do recording because the remaining recording time of the USB device is less than the total time of the music source.
  Change to a USB device which has enough recording time and do the recording again.

"ERROR"
- An incorrect operation was done. Read the instructions and try again.

"ERROR" (during recording)
- You cannot select other playback source (example: radio, USB etc.) or press [I◄◄] or [►►I] during recording. Stop the recording function.
- You cannot open the disc tray when recording from an AM source.

"F61"
- Examine and correct the speaker cords connection.
- Disconnect the USB device. Switch off the system and then switch it on again.

"NODEVICE"
- The USB device is not connected. Examine the connection.

"NO PLAY"
"UNSUPPORT"
- Examine the content. You can only play supported format.
- The files in the USB device can be corrupted. Format the USB device and try again.

"NO TRACK"
- There is no album or track in the USB device or the internal memory.

"NOT MP3 → ERROR"
- You played an unsupported MP3 file. The system will skip that track and play the next one.

"PLAYERROR"
- You played an unsupported MP3 file. The system will skip that track and play the next one.

"REMOTE 1" or "REMOTE 2"
- The remote control and the main unit are using different codes. Change the code of the remote control.
  – When "REMOTE 1" is shown, press and hold [OK] and [1] for a minimum of 4 seconds.
  – When "REMOTE 2" is shown, press and hold [OK] and [2] for a minimum of 4 seconds.

"TEMP NG"
- The temperature protection circuit has been activated, and the system will switch off. Let the unit cool down before switching it on again.
- Check that the ventilation opening of the unit is not obstructed.
- Ensure this unit is well ventilated.

"USB OVER CURRENT ERROR"
- The USB device is using too much power. Disconnect the USB device, switch off the system and then switch on again.

"VBR–"
- The system cannot show the remaining play time for variable bit rate (VBR) tracks.

Remote control code

When other Panasonic equipment responds to the remote control of this system, change the remote control code for this system.

Preparation
Press [RADIO/EXT-IN] to select "MUSIC PORT" or "AUX".

To set the code to "REMOTE 2"

1 Press and hold [RADIO/EXT-IN] on the main unit and [2] on the remote control until "REMOTE 2" is shown.

2 Press and hold [OK] and [2] for a minimum of 4 seconds.

To set the code to "REMOTE 1"

1 Press and hold [RADIO/EXT-IN] on the main unit and [1] on the remote control until "REMOTE 1" is shown.

2 Press and hold [OK] and [1] for a minimum of 4 seconds.

Memory reset (initialisation)

Reset the memory when the following situations occur:
- There is no response when buttons are pressed.
- You want to clear and reset the memory contents.

1 Disconnect the AC mains lead.

2 While you press and hold [⏻/I] on the main unit, connect the AC mains lead again.
Continue to press and hold the button (approximately 10 seconds) until "– – – – – – – –" is shown.

3 Release [⏻/I].
All the settings are set back to the factory preset.
It is necessary to set the memory items again.

Maintenance

To clean this system, wipe with a soft, dry cloth.
- Never use alcohol, paint thinner or benzine to clean this system.
- Before using chemically treated cloth, read the instructions that came with the cloth carefully.