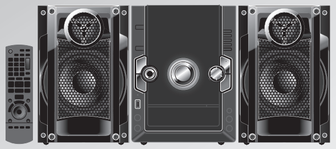


Panasonic

Operating Instructions

CD Stereo System

Model No. **SC-AKX10**

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.

These operating instructions are applicable to the following system.

System	SC-AKX10
Main unit	SA-AKX10
Speakers	SB-AKX10

Your unit may not look exactly the same as illustrated.

SUPPLIED ACCESSORIES

Please check and identify the supplied accessories.
Use numbers indicated in parentheses when asking for replacement parts. (As of January 2010)

- 1 x AC mains lead
  - For the United Kingdom (K2CZ3YY00005)
  - For Australia (K2CJ2DA00008)
- 1 x Remote control (N2QAYB000500)
- 2 x Remote control batteries
- 1 x FM indoor antenna (RSAX0002)
- 1 x AM loop antenna (N1DYYYY00010)
- For the United Kingdom
  - 1 x Antenna plug adaptor (K1YZ02000013)

Note:
"EB" on the packaging indicates the United Kingdom.

EU

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

EB GN En

EU

Pursuant to at the directive 2004/108/EC, article 9(2)
Panasonic Testing Centre
Panasonic Marketing Europe GmbH
Winsbergring 15, 22525 Hamburg, Germany

RQTX1089-B
L0110CH0

CLASS 1
LASER PRODUCT

Back of product

Inside of product

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.

For the United Kingdom and Republic of Ireland

■ Sales and Support Information

Customer Care Centre
- For customers within the UK: 0844 844 3852
- For customers within the Republic of Ireland: 01 289 8333
- Visit our website for product information
- E-mail: customer.care@panasonic.co.uk

Direct Sales at Panasonic UK
- For customers: 0844 844 3856
- Order accessory and consumable items for your product with ease and confidence by phoning our Customer Care Centre Monday-Thursday 9:00am-5:30pm, Friday 9:30am-5:30pm (Excluding public holidays).
- Or go on line through our Internet Accessory ordering application at www.panasonic.co.uk.
- Most major credit and debit cards accepted.
- All enquiries transactions and distribution facilities are provided directly by Panasonic UK Ltd.
- It couldn't be simpler!
- Also available through our Internet is direct shopping for a wide range of finished products, take a browse on our website for further details.

Interested in purchasing an extended guarantee? Please call 0870 240 6284 or visit our website www.panasonic.co.uk/guarantee.

Information for Users on Collection and Disposal of Old Equipment and used Batteries

These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste.
For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.
By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.
For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.
Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

For business users in the European Union
If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

[Information on Disposal in other Countries outside the European Union]
These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

Note for the battery symbol (bottom two symbol examples):
This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Cd

Caution for AC Mains Lead

For United Kingdom

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ⓐ or the BSI mark ⓑ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION!
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as stated below.
If in any doubt please consult a qualified electrician.

IMPORTANT
The wires in this mains lead are coloured in accordance with the following code:
Blue: Neutral, Brown: Live.
As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.
The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL ⏚ OR COLOURED GREEN OR GREEN/YELLOW.
THIS PLUG IS NOT WATERPROOF—KEEP DRY.

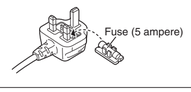
Before use
Remove the connector cover.

How to replace the fuse
The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.
Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

Figure B



2. Replace the fuse and close or attach the fuse cover.

Figure A

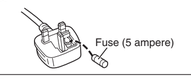
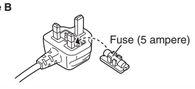


Figure B



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 place 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 authorised 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.

PLACEMENT OF SPEAKERS

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

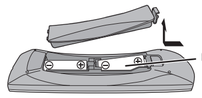
You cannot take the front net off the speakers.

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.**

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 [9], 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.

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 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.

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 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.
- Maximum album: 255 albums
- Maximum track: 2500 tracks
- Maximum track in one album: 999 tracks

MAINTENANCE

If the surfaces are dirty

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

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 [AUX] [5] on the main unit and [2] [20] until the main unit's display shows "REMOTE 2".

2 Press and hold [OK] [36] and [2] [20] for at least 2 seconds.

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

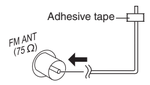
MAKING THE CONNECTIONS

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

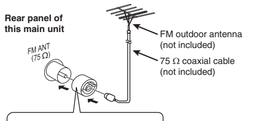
Antenna connections

Place the antenna where reception is best.

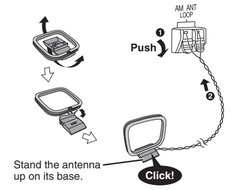
FM indoor antenna



FM outdoor antenna



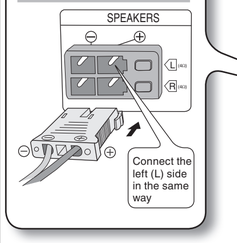
AM loop antenna

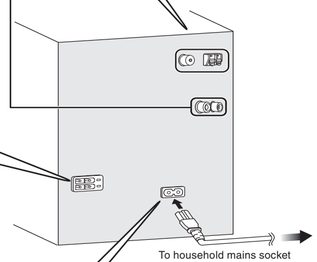


Note:
- If the radio reception is poor, use optional outdoor antenna. This antenna should be installed by a competent technician.
- Disconnect the outdoor antenna when the unit is not in use.
- Do not use the outdoor antenna during a lightning storm.
- Disconnect the FM indoor antenna.

Please refer to "CONNECTING TO OTHER EXTERNAL UNIT" for more information on the AUX connection.

Speaker connections

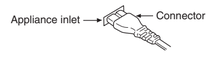




AC mains lead connection

FOR THE UNITED KINGDOM ONLY
READ THE CAUTION FOR AC MAINS LEAD ON THE LEFT BEFORE 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.



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.

CONNECTING TO OTHER EXTERNAL UNIT

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

1 Press [AUX] [5] to select "AUX".

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

Note:
- All peripheral components and cables are sold separately.
- 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.

Level adjustment

You can select the sound input level of your external unit. You are recommended to set the input level as below:

NORMAL : For connection to TV, VCR, DVD Player
HIGH : For connection to digital audio player such as MP3 player

Press [INPUT LEVEL] [38] to select your desired setting.

HIGH ↔ NORMAL

Note:
- If there is high sound distortion when level "HIGH" is selected, the unit will automatically switch to "NORMAL".
- You can also manually select "NORMAL" if there is sound distortion.

DISCS

Playing discs

1 Press [⏏, OPEN/CLOSE] 16 on the main unit to open the tray 17.
The unit turns on, load a disc with the label facing up.
Press [⏏, OPEN/CLOSE] 16 again to close the tray 17.

2 Press [▶/II, CD] 13 to start play.

Stop playback	Press [■] 4 (stop) during play.
Pause play	Press [▶/II, CD] 13 during play. Press again to resume play.
Skip album	MP3 Press [▲/▼, ALBUM] 36 to select the desired album during play or when in stop mode. • This function does not work during RANDOM mode.
Skip tracks	During play Press [I◀◀/◀◀] / [▶▶/▶▶I] 11, or turn [TRACK] 14 to skip to your desired track. While in stop mode Press [I◀◀/◀◀] / [▶▶/▶▶I] 11 followed by [▶/II, CD] 13 to skip and play your desired track. Alternatively, turn [TRACK] 14 to skip and play your desired track. • During random play (➡ see "Play Mode function"), you cannot skip to tracks which have been played. • You cannot use [TRACK] 14 to skip track during random play. MP3 During 1-ALBUM and 1-ALBUM RANDOM mode, track skipping can only be done within the current album.
Search through tracks	CD Press and hold [I◀◀/◀◀] / [▶▶/▶▶I] 11 during play or pause to search. • During program play, or random play (➡ see "Play Mode function"), you can search only within the track.

Play Mode function

CD MP3

Press [PLAY MODE] 32 to select the desired mode.

1-TRACK 1-TR	Play one selected track on the disc. Press the numeric buttons 20 to select the track. Play starts from the selected track.
1-ALBUM 1-ALB	MP3 Play one selected album on the disc. Press [▲/▼, ALBUM] 36 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 [▲/▼, ALBUM] 36 to select the album.

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 17.

Checking the track information

You can view the information of the current track from the display panel 1.
Press [DISPLAY] 24 repeatedly during play or pause.

CD
Elapsed play time ↔ Remaining play time

MP3
Elapsed play time → Remaining play time
↑ ↓
Track name ← Album name

MP3
Press [MP3 INFO] 37 repeatedly during play or pause.
Tag (Album) → Tag (Track) → Tag (Artist)
↑ ↓
Elapsed play time ←

Note:
- 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.

Program play

This function allows you to program up to 24 tracks.

CD

1 Press [▶/II, CD] 13 and then [■] 4 (stop).
2 Press [PROGRAM] 22.
"PGM" appears.
3 Press the numeric buttons 20 to select your desired track.
Repeat this step to program other tracks.
4 Press [▶/II, CD] 13 to start play.

MP3

1 Press [▶/II, CD] 13 and then [■] 4 (stop).
2 Press [PROGRAM] 22.
3 Press [▲/▼, ALBUM] 36 to select your desired album.
4 Press [▶▶/▶▶I] 11 once and then the numeric buttons 20 to select your desired track.
5 Press [OK] 36.
Repeat steps 3 to 5 to program other tracks.
6 Press [▶/II, CD] 13 to start play.

For two-digit track, press [≥10] 20 once then the two digits.
For three-digit track, press [≥10] 20 twice then the three digits.

Cancel program mode	Press [PROGRAM] 22 in the stop mode.
Replay the program	Press [PROGRAM] 22 then [▶/II, CD] 13.
Add to the program	CD In the stop mode, press [▶▶/▶▶I] 11 and then repeat step 3. MP3 Repeat steps 3 to 5 in the stop mode.
Check program contents	Press [I◀◀/◀◀] / [▶▶/▶▶I] 11 when "PGM" is displayed in the stop mode. To check while programming, press [PROGRAM] 22 twice after "PGM" appears, then press [I◀◀/◀◀] / [▶▶/▶▶I] 11. CD The track number and program order are displayed. MP3 The program order is displayed followed by the album number and track number.
Clear the last track	Press [DEL] 21 in the stop mode.
Clear all programmed tracks	Press [■] 4 (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 17.

Repeat play

CD MP3

You can repeat program play or other selected play mode.
Press [REPEAT] 33.
"ON REPEAT" and "↻" are displayed.
To cancel
Press [REPEAT] 33 again.
"OFF REPEAT" is displayed and "↻" is cleared.

Note:
You can use repeat mode with "Program play" and "Play Mode function".

USB

MP3
The USB connectivity enables you to connect and play MP3 tracks from USB mass storage class. Typically, USB memory devices (bulk only transfer).

Playback

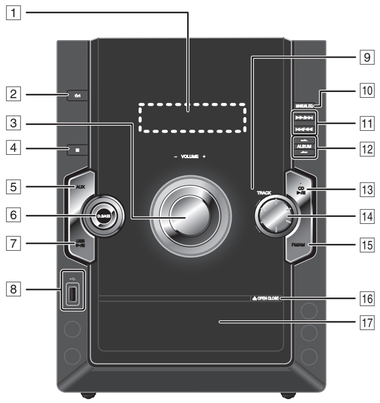
1 Reduce the volume 3 and connect the USB mass storage device to the USB port 8.
2 Press [▶/II, USB] 7 to start play.

Stop playback	Press [■] 4 (stop) during play. "RESUME" is displayed. The position is memorised. Press [▶/II, USB] 7 to resume play. Press [■] 4 (stop) again to clear the position.
Pause play, Skip tracks or Skip album	These functions have similar operation as described in "Playing discs".

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

MAIN UNIT

Standby/on switch [⏻/I] 2
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.



RADIO

Manual tuning

1 Press [FM/AM] 15 to select "FM" or "AM".
2 Press [TUNE MODE] 26 to select "MANUAL".
3 Press [I◀◀/◀◀] / [▶▶/▶▶I] 11 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 [I◀◀/◀◀] / [▶▶/▶▶I] 11 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 [I◀◀/◀◀] / [▶▶/▶▶I] 11 once again.

To improve the sound quality

When "FM" is selected
Press [FM MODE] 39 to display "MONO".

To cancel
Press [FM MODE] 39 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 [TUNE MODE] 26.
Each time you press the button: BP2 ↔ BP1

For the United Kingdom

RDS broadcasting

This unit can display the text data transmitted by the radio data system (RDS) available in some areas.
If the station you are listening to is transmitting RDS signals, "RDS" will light up on the display.
Press [DISPLAY] 24 to display:
Station name (PS) → Program Type (PTY) → Frequency display

Program type displays			
NEWS	VARIED	FINANCE	COUNTRY
AFFAIRS	POP M	CHILDREN	NATIONAL
INFO	ROCK M	SOCIAL A	OLDIES
SPORT	M-O-R- M ✲	RELIGION	FOLK M
EDUCATE	LIGHT M	PHONE IN	DOCUMENT
DRAMA	CLASSICS	TRAVEL	TEST
CULTURE	OTHER M	LEISURE	ALARM
SCIENCE	WEATHER	JAZZ	

✲ M-O-R- M = Middle-of-the-Road music

Note:
RDS displays may not be available if reception is poor.

AM allocation setting

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] 15 on the main unit.
After a few seconds the display changes to a flashing display of the current minimum frequency.
2 Continue to hold down [FM/AM] 15.
- 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.

Automatic presetting

30 FM and 15 AM stations can be preset.
Preparation
Press [FM/AM] 15 to select "FM" or "AM".
1 Press [PLAY MODE] 32 repeatedly to select either "CURRENT" or "LOWEST".

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

2 Press [AUTO PRESET] 25 to start presetting.
The tuner presets all the stations it can receive into the channels in ascending order. When finished, the last station memorised is tuned in.

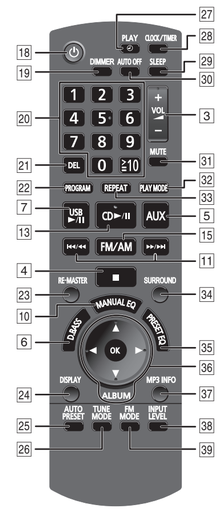
Manual presetting

30 FM and 15 AM stations can be preset.
Preparation
Press [FM/AM] 15 to select "FM" or "AM".
1 Press [TUNE MODE] 26 to select "MANUAL".
2 Press [I◀◀/◀◀] / [▶▶/▶▶I] 11 to tune to the required station.
3 Press [PROGRAM] 22.
4 Press the numeric buttons 20 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 20 to select a channel.
For channels 10 to 30 press [≥10] 20, then the two digits.
OR
1 Press [TUNE MODE] 26 to select "PRESET".
2 Press [I◀◀/◀◀] / [▶▶/▶▶I] 11 to select the channel.

REMOTE CONTROL



[AUTO OFF] 30
This auto off function allows you to turn off the unit in **disc** or **USB** mode only after left unused for 10 minutes.
- Press the button to activate the function.
- Press the button again to cancel.
- The setting is maintained even if the unit is turned off.

[MUTE] 31
To mute the sound.
- Press the button to activate the function.
- Press the button again or adjust the volume to cancel.

[DIMMER] 19
To dim the display panel.
- Press the button to activate the function.
- Press the button again to cancel.

[I◀/▶I] 36
These buttons have the exact same functions as those of [I◀◀/◀◀] / [▶▶/▶▶I] 11.

[▲/▼, ALBUM] 12
These buttons have the exact same functions as those of [▲/▼, ALBUM] 36.

CLOCK AND TIMER

Setting the clock

This is a 24-hour clock.
1 Press [CLOCK/TIMER] 28 to select "CLOCK".
Each time you press the button:
CLOCK → ◴ PLAY
↳ Original display ↵
2 Within 8 seconds or so
Press [▲/▼] 36 to set the time.
3 Press [OK] 36 to finish setting the time.

Displaying the clock
Press [CLOCK/TIMER] 28 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.

Sleep timer

This function enables you to turn off the unit automatically after the set time.
Press [SLEEP] 29 to select your desired time.

To cancel
Press [SLEEP] 29 to select "OFF".

Changing the remaining time
Press [SLEEP] 29 to show the remaining time and press [SLEEP] 29 again to select your desired time.

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

Play timer

You can set the timer to come on at a certain time to wake you up.
Turn the unit on and set the clock.

Prepare the music source you want to listen to; disc, radio, USB, or other external unit, and set the volume 3.
1 Press [CLOCK/TIMER] 28 repeatedly to select play timer.
Each time you press the button:
CLOCK → ◴ PLAY
↳ Original display ↵
2 Within 8 seconds or so
Press [▲/▼] 36 to set the starting time.
3 Press [OK] 36 to confirm.
4 Repeat steps 2 and 3 to set the finishing time.

To activate the timer
5 Press [◴ PLAY] 27 to turn on the timer.
6 Press [⏻] 18 to turn off the unit.
The unit must be turned off for the timer to operate.

Change the settings	Repeat steps 1 to 4 and 6 (➡ see above).
Change the source or volume	1) Press [◴ PLAY] 27 to clear the timer indicator from the display. 2) Make changes to the source or volume. 3) Perform steps 5 and 6 (➡ see above).
Check the settings	Press [CLOCK/TIMER] 28 repeatedly to select ◴ PLAY.
Cancel	Press [◴ PLAY] 27 to clear the timer indicator from the display.

Note:
- The play timer will start at the preset time, with the volume increasing gradually to preset level.
- 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.

SOUND EFFECTS

Changing the sound quality: Preset EQ

Press [PRESET EQ] 35 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] 10 repeatedly to select your desired setting.
BASS ↔ TREBLE
2 Press [I◀◀/◀◀] / [▶▶/▶▶I] 11 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 [SURROUND] 34 to display "▯▯▯▯▯▯▯▯" indicator.
To cancel
Press [SURROUND] 34 again to clear "▯▯▯▯▯▯▯▯" indicator.

Note:
If interference in FM stereo reception increases, cancel the surround-sound effect.

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 [RE-MASTER] 23 repeatedly to select either "ON RE-MASTER" or "OFF RE-MASTER".

Enjoying the bass: D.BASS

Press [D.BASS] 6 repeatedly to select either "ON D.BASS" or "OFF D.BASS".

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 do not solve the problem, consult your dealer for instructions.

■ *Common problems*

When the unit is in standby mode, the display lights up and changes continuously.
- Press and hold [■] 4 on the main unit to select "NO DEMO".

No response when remote control buttons are pressed.
- Check that the batteries are installed correctly.

Distorted sound or no sound.
- Turn the volume up.
- 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.
- 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.
- You have not inserted the disc correctly; insert it correctly.
- Disc may be dirty. Wipe it clean.
- Replace the disc if it is scratched, warped, or non-standard.
- 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.
- You have inserted a disc the unit cannot play; insert one it can.
- 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.
- Use an optional FM outdoor antenna. The antenna should be installed by a competent technician.

A beat sound is heard.
- Turn the television off or move it away from the unit.
- Switch to either BP 1 or BP 2 when in AM tuner mode.

A low hum is heard during AM broadcast.
- Separate the antenna from other cables and cords.

■ *USB*

The USB drive or its contents cannot be read.
- The USB drive format or its contents is/are not compatible with the system.
- The USB host function of this product may not work with some USB devices.
- USB devices with storage capacity of more than 8 gigabytes may not work in some instances.

Slow operation of the USB device.
- Large file size or high memory USB flash drive takes longer time to read.

■ *Unit displays*

"NO PLAY"
- Check the content.
- Only MP3 format files can be played.
- If there are more than 255 albums or folders (audio and non-audio), some of the MP3 files in these albums may not be read and played. Transfer these music albums to another USB. Alternatively, reformat the USB device and save these music albums prior to saving the other non-audio folders.

"F61"
- Check and correct the speaker cords connection.
- If this does not fix the problem, consult the dealer.
- Disconnect the USB device. Turn the unit off and then turn back on.

"ERROR"
- Incorrect operation performed. Read the instructions and try again.

"NOT MP3/ERROR1"
- An unsupported MP3 format is being played. The unit will skip that track and play the next one.

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

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

SPECIFICATIONS

Amplifier section

RMS Output power stereo mode
Front Ch (both channels driven)
125 W per channel (4 Ω), 1 kHz, 10% THD
Total RMS stereo mode power 250 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)
Aux input RCA pin jack

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
Pick up
Wavelength 785 nm (CD)
Laser power CLASS 1 (CD)
Audio output (Disc)
Number of channels 2 (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
FAT 12, FAT 16, FAT 32
USB port power 500 mA (Max)

Speaker section

Type 2 way, 2 speaker system (Bass reflex)
Speaker unit(s)
Woofer 16 cm cone type
Tweeter 6 cm cone type
Impedance 4 Ω
Output sound pressure 85 dB/W (1 m)
Frequency range
34 Hz to 22 kHz (–16 dB)
41 Hz to 20 kHz (–10 dB)
Dimensions (WxHxD) 220 mm x 332 mm x 186 mm
Mass 2.6 kg

General

Power supply AC 220 to 240 V, 50 Hz
Power consumption 62 W
Dimensions (WxHxD) 250 mm x 336 mm x 245 mm
Mass 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:
1) Specifications are subject to change without notice. Mass and dimensions are approximate.
2) Total harmonic distortion is measured by the digital spectrum analyzer.