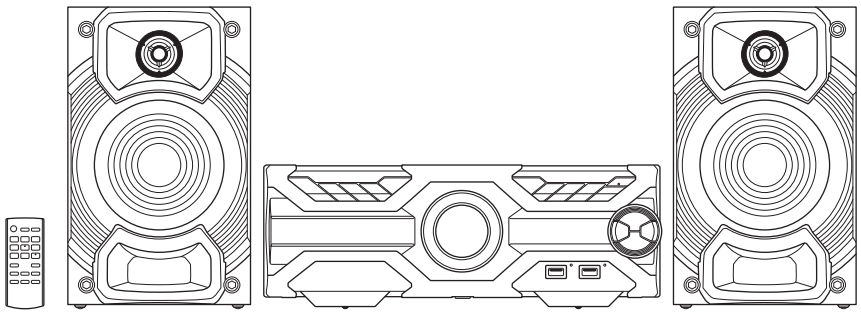


Operating Instructions

CD Stereo System

Model No. **SC-AKX520**
SC-AKX320



This illustration shows SC-AKX320.

Thank you for purchasing this product.

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

Manufactured by: Panasonic Corporation
Kadoma, Osaka, Japan
Importer for Europe: Panasonic Marketing Europe GmbH
Panasonic Testing Centre
Winsbergirng 15, 22525 Hamburg, Germany

Panasonic Corporation
Web Site: <http://www.panasonic.com>

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These operating instructions are applicable for models SC-AKX520 and SC-AKX320.
AKX520: Indicate features applicable to SC-AKX520.
AKX320: Indicate features applicable to SC-AKX320.

System	SC-AKX520	SC-AKX320
Main unit	SA-AKX520	SA-AKX320
Speakers	SB-AKX440	SB-AKX220

Unless otherwise indicated, illustrations in these operating instructions are of SC-AKX320.
Your system and the illustrations can look differently.



Back of product

The symbols on this product (including the accessories) represent the following:

	AC
	Class II equipment (The construction of the product is double-insulated.)
	ON
	Standby

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 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!

- 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.
- This unit is intended for use in moderate climates.
- 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.
- Set the unit up on an even surface away from direct sunlight, high temperatures, high humidity, and excessive vibration.

NORSK

ADVARSEL!

- Produkt**
- For å redusere faren for brann, elektrisk støt eller skade på apparatet:
 - Dette apparatet må ikke utsettes for regn, fuktighet, drypp eller sprut.
 - Ikke plasser objekter som er fylt med væske, som vaser, på apparatet.
 - Bruk anbefalt tilbehør.
 - Fjern ikke deksler.
 - Dette apparatet må ikke repareres på egen hånd. Overlat servicearbeid til kvalifisert servicepersonell.

FORSIKTIG!

- Produkt**
- For å redusere faren for brann, elektrisk støt eller skade på apparatet:
 - Ikke plasser apparatet i en bokhylle, et innbygget kabinet eller et annet lukket sted. Pass på at apparatet er godt ventilert.
 - Apparatets ventilasjonsåpninger må ikke dekkes til med aviser, duker, gardiner eller lignende.
 - Plasser ikke åpen ild, slik som levende lys, oppå apparatet.
 - Dette apparatet er beregnet til bruk under moderate klimaforhold.
 - Dette apparatet anvender en laser. Betjening av kontroller, justeringer eller andre inngrep enn de som er beskrevet i denne bruksanvisning, kan føre til farlig bestråling.

Vekselstrømmett

- Støpelet er frakoblende enhet. Strømuttaket må befines seg i nærheten slik at støpelelet lett kan kobles ut fra uttaket umiddelbart.

Safety information for customers in the EU

English Declaration of Conformity (DoC)

Hereby, *"Panasonic Corporation"* declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

Customers can download a copy of the original DoC to our RE products from our DoC server:
<http://www.ptc.panasonic.eu>
Contact to Authorised Representative:
Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergirng 15, 22525 Hamburg, Germany

Type of wireless	Frequency band	Maximum power (dBm e.i.r.p.)
Bluetooth®	2402 – 2480 MHz	10 dBm

Type of wireless	Frequency band	Maximum power (dBm e.i.r.p.)
Bluetooth®	2402 – 2480 MHz	10 dBm

Latviski Atbilstības deklarācija (DoC)	
Ar šo <i>"Panasonic Corporation"</i> paziņo, ka šis izstrādājums atbilst pamatprasībām un pārējiem Direktīvas 2014/53/ES noteikumiem. Pircēji var lejupielādēt oriģinālo DoC kopiju mūsu RE izstrādājuma no mūsu DoC servera: http://www.ptc.panasonic.eu Līdzām sazināties ar pilnvaroto pārstāvi: Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergirng 15, 22525 Hamburg, Vācija	

Bezuvadu tips	Frekvenču joslā	Maksimālā jauda (dBm e.i.r.p.)
Bluetooth®	2402 – 2480 MHz	10 dBm

Beviolio ryšio tinklas	Dažnių diapazonas	Maksimali siuntimo galia (dBm e.i.r.p.)
Bluetooth®	2402 – 2480 MHz	10 dBm

Slovensko Izjava o skladnosti (DoC)	
<i>"Panasonic Corporation"</i> v tem dokumentu izjavlja, da je izdelek v skladu z bistvenimi zahtevami in drugimi pomembnimi določbami Direktive 2014/53/EU. Stranka lahko naloži izvod izvirnega DoC o naših izdelkih RE s strežnika DoC: http://www.ptc.panasonic.eu Naslov pooblaščenega predstavnika: Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergirng 15, 22525 Hamburg, Nemčija	

Typ bezdrôtového pripojenia	Frekvencné pásmo	Maximálny výkon (dBm e.i.r.p.)
Bluetooth®	2402 – 2480 MHz	10 dBm

Slovensky Vyhlásenie o zhode (DoC)	
<i>"Panasonic Corporation"</i> týmto vyhlasuje, že tento výrobok je v súlade so základnými požiadavkami a ďalšími príslušnými ustanoveniami smernice 2014/53/EU. Zákazníci si môžu stiahnuť kópiu pôvodného DoC na naše RE výrobky z nášho servera DoC: http://www.ptc.panasonic.eu Kontakt na splnomocneného zástupcu: Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergirng 15, 22525 Hamburg, Nemecko	

Vrsta brezžične povezave	Frekvenčni pas	Največja moč (dBm EIRP)
Bluetooth®	2402 – 2480 MHz	10 dBm

Caution for AC mains lead

(For the AC mains plug of three pins)

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.

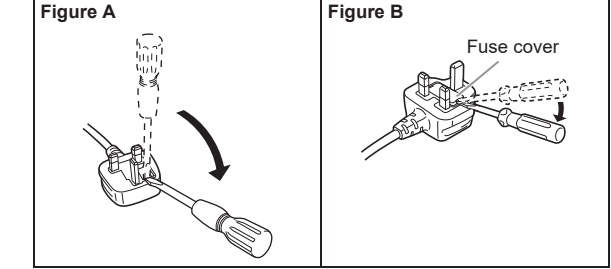
If you lose the fuse cover the plug must not be used until a replacement cover is obtained. A replacement fuse cover can be purchased from your local dealer.

Before use
Remove the connector cover.

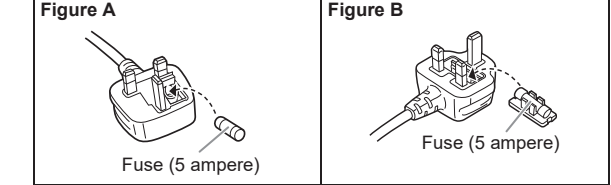
How to replace the fuse

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

- Open the fuse cover with a screwdriver.



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



Ελληνικά Δήλωση συμμόρφωσης (DoC)	
Η <i>"Panasonic Corporation"</i> δηλώνει ότι το προϊόν αυτό είναι συμμόρφωμένο προς τις βασικές απαιτήσεις και άλλες σχετικές διατάξεις της Οδηγίας 2014/53/ΕΕ. Οι πελάτες μπορούν να κατεβάσουν ένα αντίγραφο του πρωτοτύπου DoC για το RE προϊόντα μας από τον DoC server μας: http://www.ptc.panasonic.eu Επικοινωνήστε με τον Εξουσιοδοτημένο Αντιπρόσωπό μας: Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergirng 15, 22525 Hamburg, Γερμανία	

Wireless típus	Frekvenciásáv	Maximális teljesítmény (dBm e.i.r.p.)
Bluetooth®	2402 – 2480 MHz	10 dBm

Τύπος ασύρματης	Ζώνη συχνότητας	Μέγιστη ισχύς (dBm e.i.r.p.)
Bluetooth®	2402 – 2480 MHz	10 dBm

Disposal of Old Equipment and Batteries
Only for European Union and countries with recycling systems

-
- These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries must 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.
- By disposing of them correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment.
- For more information about collection and recycling, please contact your local municipality.
- Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

Note for the battery symbol (bottom symbol):
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.

Maintenance

Disconnect the AC mains lead before maintenance. Clean this system 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.

Português Declaração de Conformidade (DoC)

Com o presente documento, a *"Panasonic Corporation"* declara que este produto se encontra em conformidade com os requisitos específicos e demais especificações referentes a Diretiva 2014/53/UE.

Os clientes podem baixar uma cópia da declaração de conformidade (DoC) para nossos produtos RE do Server DoC: <http://www.ptc.panasonic.eu>
Contacto com um Representante Autorizado: Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergirng 15, 22525 Hamburg, Alemanha

Tipo de ligação sem fios	Banda de frequência	Potência máxima (dBm e.i.r.p.)
Bluetooth®	2402 – 2480 MHz	10 dBm

Eesti keel Vastavusdeklaratsioon (DoC)	
Käesolevaga kinnitab <i>"Panasonic Corporation"</i> , et see toode vastab direktiivi 2014/53/EL olulistele nõuetele ja teiste asjakohastele sätetele. Kliendid saavad kopia meie RE toodetele kehtiva originaalvastavusdeklaratsiooni kopia laadida meie DoC-serverilt: http://www.ptc.panasonic.eu Võtke ühendust volitatud esindajaga: Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergirng 15, 22525 Hamburg, Saksamaa	

Juhtumavaab seadme tüüp	Sagedusriba	Maksimaalne võimsus (dBm EIRP)
Bluetooth®	2402 – 2480 MHz	10 dBm

Norsk Samsvareklaring (DoC)	
<i>"Panasonic Corporation"</i> erklærer herved at dette produktet samsvarer med de grunnleggende kravene og andre relevante bestemmelser i direktivet 2014/53/EU. Kundene kan laste ned en kopi av den originale samsvarserklæringen (DoC) for vårt RE utstyr fra vår DoC server: http://www.ptc.panasonic.eu Kontaktinformasjon autorisert representant: Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergirng 15, 22525 Hamburg, Tyskland	

Type trådløs	Frekvensbånd	Maks. effekt (dBm e.i.r.p.)
Bluetooth®	2402 – 2480 MHz	10 dBm

Български Декларация за съответствие (DoC)	
С настоящото <i>"Panasonic Corporation"</i> декларира, че този продукт е в съответствие с основните изисквания и други съответни разпоредби на Директивата 2014/53/ЕО. Потребителите могат да свалят копия от оригиналните DoC към нашите продукти от тип RE от сървъра, на който се съхраняват DoC: http://www.ptc.panasonic.eu Свържете се с нашия упълномощен представител: Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergirng 15, 22525 Hamburg, Германия	

Вид безжична връзка	Честотна лента	Максимална мощност (dBm e.i.r.p.)
Bluetooth®	2402 – 2480 MHz	10 dBm

Román Declarație de Conformitate (DoC)	
<i>"Panasonic Corporation"</i> declară prin prezenta că acest produs este conform cu cerințele esențiale și alte prevederi relevante ale Directivei 2014/53/UE. Clienții pot descărca o copie a DoC-ului original al produselor noastre RE de la adresa noastră DoC din Internet: http://www.ptc.panasonic.eu Contactați Reprezentantul Autorizat: Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergirng 15, 22525 Hamburg, Germania	

Tip de wireless	Interval de frecvență	Putere maximă (dBm e.i.r.p.)
Bluetooth®	2402 – 2480 MHz	10 dBm

Hrvatski Deklaracija o podobnosti (DoC)	
Ovimе <i>"Panasonic Corporation"</i> izjavljujе da ovaj proizvod udovoljаva osnovnim zahtjevima i ostalim relevantnim odredbama Direktive 2014/53/EU. Kupci mogu preuzeti kopiju originalne DoC za naše RE proizvode s našeg DoC poslužitelja: http://www.ptc.panasonic.eu Adresa ovlaštenog predstavništva: Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergirng 15, 22525 Hamburg, Njemačka	

Vrsta bežične mreže	Frekvencijski pojas	Maksimalna snaga (dBm e.i.r.p.)
Bluetooth®	2402 – 2480 MHz	10 dBm

Türkçe Uygunluk Beyanı (DoC)	
<i>"Panasonic Corporation"</i> bu belge ile bu ürünün 2014/53/UE Direktif'in temel gerekliliklerine ve diğer ilgili hükümlerine uygun olduğunu beyan eder. Müşterilerimiz RE ürünlerimizle ilgili orijinal DoC belgesinin bir kopyasını DoC sunucumuzdan indirebilir: http://www.ptc.panasonic.eu Yetkili Temsilci ile temasa geçin: Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergirng 15, 22525 Hamburg, Almanya	

Kablosuz türü	Frekans bandı	Maksimum güç (dBm e.i.r.p.)
Bluetooth®	2402 – 2480 MHz	10 dBm

About Bluetooth®

Panasonic bears no responsibility for data and/or information that is compromised during a wireless transmission.

Frequency band
This system uses the 2.4 GHz frequency band.

Certification
This system conforms to the frequency restrictions and has received certification based on frequency laws. Thus, a wireless permit is not necessary.

- The actions below are punishable by law in some countries:
 - Taking apart or modifying the main unit.
 - Removing specification indications.

Restrictions of use

- Wireless transmission and/or usage with all Bluetooth® equipped devices is not guaranteed.
- All devices must conform to standards set by the Bluetooth SIG, Inc. Depending on the specifications and settings of a device, it can fail to connect or some operations can be different.
- This system supports Bluetooth® security features. But depending on the operating environment and/or settings, this security is possibly not sufficient. Transmit data wirelessly to this system with caution.
- This system cannot transmit data to a Bluetooth® device.

Range of use

- Use this device at a maximum range of 10 m.
- The range can decrease depending on the environment, obstacles or interference.

Interference from other devices

- This system may not function properly and troubles such as noise and sound jumps may arise due to radio wave interference if this unit is located too close to other Bluetooth® devices or the devices that use the 2.4 GHz band.
- This system may not function properly if radio waves from a nearby broadcasting station, etc. is too strong.

Intended usage

- This system is for normal, general use only.
- Do not use this system near an equipment or in an environment that is sensitive to radio frequency interference (example: airports, hospitals, laboratories, etc.).

Licenses

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Panasonic Corporation is under license. Other trademarks and trade names are those of their respective owners.

Android and Google Play are trademarks of Google LLC.

Specifications

General

Power supply	AC 220 V to 240 V, 50 Hz
Power consumption	86 W 60 W
Power consumption in standby mode (approximate)	With "BLUETOOTH STANDBY" set to "OFF" 0.5 W With "BLUETOOTH STANDBY" set to "ON" 0.6 W
Dimensions (W x H x D)	400 mm x 142 mm x 250 mm
Mass (SA-AKX520)	2.5 kg
Mass (SA-AKX320)	2.5 kg
Operating temperature range	0°C to +40°C
Operating humidity range	35% to 80% RH (no condensation)

Amplifier section

RMS output power stereo mode	
AKX520	Front Ch (both ch driven) 325 W per channel (3 Ω), 1 kHz, 30% THD Total RMS stereo mode power 650 W
AKX320	Front Ch (both ch driven) 225 W per channel (4 Ω), 1 kHz, 30% THD Total RMS stereo mode power 450 W

Tuner section

Frequency modulation (FM)	
Preset memory	30 stations
Frequency range	87.50 MHz to 108.00 MHz (50 kHz step)
Antenna terminals	75 Ω (unbalanced)
Amplitude modulation (AM)	
Preset memory	15 stations
Frequency range	522 kHz to 1629 kHz (9 kHz step) 520 kHz to 1630 kHz (10 kHz step)

Disc section

Disc played (8 cm or 12 cm) CD, CD-R/RW (CD-DA, MP3*)

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

Pick up	
Wavelength	790 nm (CD)
NORSK	
Bølge lengde	790 nm (CD)
Laserstyrke	Ingen farlig stråling sendes ut

Terminal section

USB port	
USB standard	USB 2.0 full speed
Media file format support	MP3 (*, mp3)
USB device file system	FAT12, FAT16, FAT32

AUX IN	
Audio input	Pin jack (1 system)
AKX520	
Microphone	
Terminal	Mono, 6.3 mm jack (2 system)

Bluetooth® section	
Version	Bluetooth® Ver. 4.2
Class	Class 2
Supported profiles	A2DP, AVRCP, SPP
Frequency band	2.4 GHz band FH-SS
Operating frequency	2402 MHz to 2480 MHz
Maximum power (EIRP)	10 dBm
Operation distance	10 m line of sight
Supported codec	SBC

Speaker section

SB-AKX440	
Speaker unit(s)	20 cm cone type x 1 6 cm cone type x 1
Impedance	3 Ω
Dimensions (W x H x D)	257 mm x 422 mm x 219 mm
Mass	4.5 kg
SB-AKX220	
Speaker unit(s)	16 cm cone type x 1 6 cm cone type x 1
Impedance	4 Ω
Dimensions (W x H x D)	199 mm x 333 mm x 210 mm
Mass	3.3 kg
Note:	• Specifications are subject to change without notice. • Mass and dimensions are approximate. • Total harmonic distortion is measured by the digital spectrum analyzer.

Note on disc

- This system can play CD-R/RW with CD-DA or MP3 format content.
- Before playback, finalise the disc on the device it was recorded on.
- Some CD-R/RW cannot be played because of the condition of the recording.

Note on USB device

- This system does not guarantee connection with all USB devices.
- This system supports USB 2.0 full speed.
- This system can support USB devices of up to 32 GB.
- Only FAT 12/16/32 file system is supported.

Note on MP3 file

- Files are defined as tracks and folders are defined as albums.
- Tracks must have the extension ".mp3" or ".MP3".
- Tracks will not necessarily be played in the order you recorded them.
- Some files can fail to work because of the sector size.

MP3 file on disc

- This system can access up to:
 - 255 albums (including root folder)
 - 999 tracks
 - 20 sessions
- Disc must conform to ISO9660 level 1 or 2 (except for extended formats).

MP3 file on USB device

- This system can access up to:
 - 800 albums (including root folder)
 - 8000 tracks
 - 999 tracks in one album

Sales and Support Information

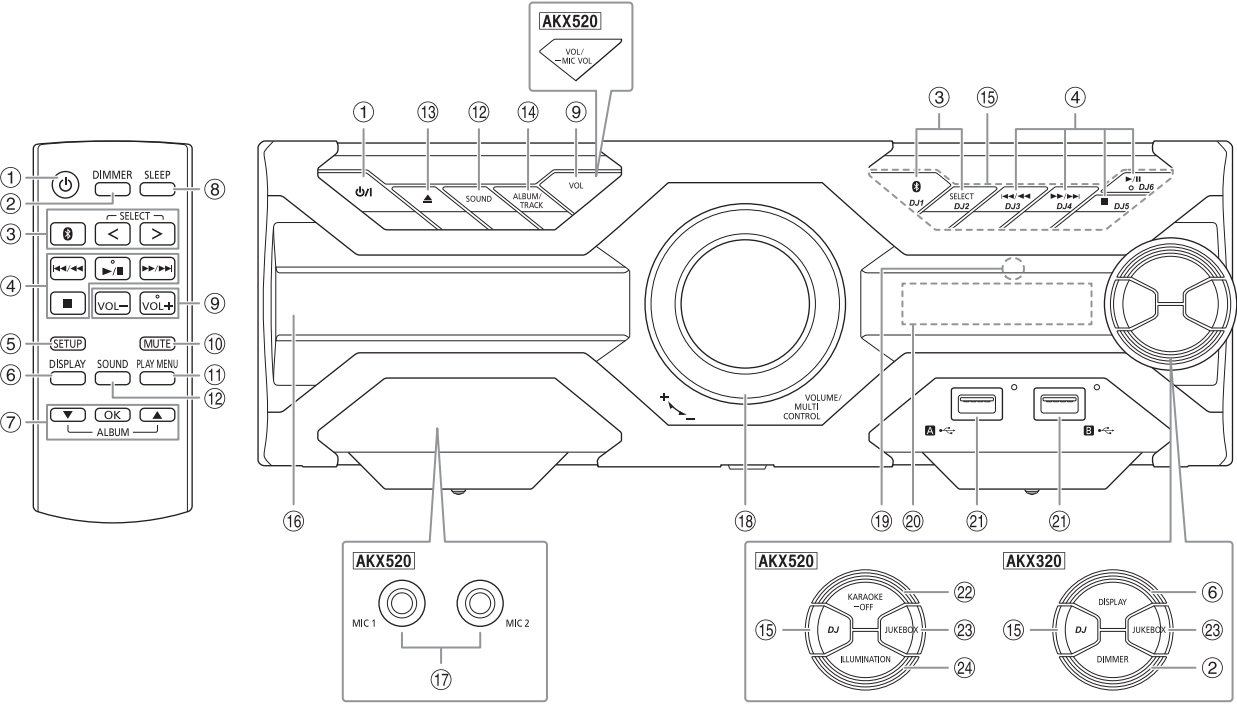
For the United Kingdom and Ireland

Customer Communications Centre
• For customers within the UK: 0344 844 3889
• For customers within Ireland: 01 289 8333
• Monday – Friday 9:00am – 5:00pm (Excluding public holidays).
• For further support on your product, please visit our website: www.panasonic.co.uk

Direct Sales at Panasonic UK
• Order accessory and consumable items for your product with ease and confidence by phoning our Customer Communications Centre. Monday – Friday 9:00am – 5:00pm (Excluding public holidays).
• Or go on line through our Internet Accessory ordering application at www.pas-shop.co.uk
• Most major

Overview of controls

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



- Standby/on switch** 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.
- Decrease the brightness of the display panel** To cancel, press the button again.
AKX520
The illumination effect is also switched off.
- Select the audio source** Press [SELECT <, >] (main unit: [SELECT]) repeatedly to select the source:
USB A → USB B → CD → FM
↑
BLUETOOTH ← AUX ← AM
On the main unit:
To start Bluetooth® pairing, press and hold .
- Basic playback control
- View the setup menu
- View the content information
- Select or confirm the option
- Set the sleep timer
- Adjust the volume level**
On the main unit:
Press [VOL] and then turn [VOLUME/MULTI CONTROL] to adjust the volume.
AKX520
Adjust the microphone volume level
Press and hold [-MIC VOL] until "MIC VOL" is shown.
Turn [VOLUME/MULTI CONTROL] to adjust the volume.
- Mute the sound**
To cancel, press the button again.
"MUTE" is also cancelled when you adjust the volume or when you switch off the system.
- View the play menu
- Select the sound effects
- Open or close the disc tray
- Select MP3 album or track**
Press [ALBUM/TRACK] to select album or track.
Browse tracks or albums
Turn [VOLUME/MULTI CONTROL] to browse.
To start playback from the selection, press .
- DJ function direct buttons**
Press [DJ] to switch on the DJ function.
Press [DJ1] to [DJ6] to select the desired function.
To cancel, press the selected [DJ1] to [DJ6] again.
- Disc tray
- Microphone jack
- Volume or multi control knob
- Remote control sensor**
Distance: Within approximately 7 m
Angle: Approximately 10° up and 30° down, 30° left and right
- Display panel
- USB port (←>) USB status indicator
- AKX520**
Select the Karaoke effects
To cancel, press and hold [-OFF] until "OFF EFFECT" is shown.
- Select DJ jukebox
- AKX520**
Select the illumination effects

Preparing media

Disc

- Press to open the disc tray.
Put in a disc with the label facing up.
Press again to close the disc tray.

- Press [SELECT <, >] repeatedly to select "CD".

USB

Preparation

Before you connect a USB device to the system, make sure you do a backup of the data.

- Decrease the volume and connect the USB device to the USB port.**
Hold the main unit when connecting or disconnecting the USB device.
- Press [SELECT <, >] repeatedly to select "USB A" or "USB B".
USB status indicator lights up in red when selected.

Note:

- Do not use a USB extension cable. The system cannot recognise USB device connected through a cable.
- Some devices cannot be charged as the maximum USB charging current is 0.5 A only.

Bluetooth®

You can connect and play an audio device wirelessly through Bluetooth®.

Preparation

- Switch on the main unit.
- Switch on the Bluetooth® feature of the device and put the device near the system.
- Read the operating instructions of the device for details.

Pairing a device

AKX520
Preparation
If this system is connected to a Bluetooth® device, disconnect it (⇨ "Disconnecting a device").

- Press .
If "PAIRING" is shown, continue with step 3.
- Press [PLAY MENU] to select "PAIRING" and then press [OK].
- Select "SC-AKX520" or "SC-AKX320" from the Bluetooth® menu of the device.
If prompted for a passkey, input "0000" or "1234".
The device connects with this system automatically after pairing is complete.
The MAC address (example: 6C:5A:B5:B3:1D:0F) may be shown before "SC-AKX520" or "SC-AKX320" is shown.
The name of the connected device is shown for a few seconds.

Using the main unit

- Press and hold until "PAIRING" is shown.
- Select "SC-AKX520" or "SC-AKX320" from the Bluetooth® menu of the device.
The name of the connected device is shown for a few seconds.

Note:

- You can pair up to 8 devices with this system. If a 9th device is paired, the device that has not been used for the longest time will be replaced.
- Depending on the searching functionality of the Bluetooth® device and the surrounding environment, if the product name is not shown on the Bluetooth® menu of the device, switch off and then switch on the Bluetooth® feature of the device repeatedly during the pairing process.

Connecting a device

AKX520
Preparation
If this system is connected to a Bluetooth® device, disconnect it (⇨ "Disconnecting a device").

- Press .
"BLUETOOTH READY" is shown.
- Select "SC-AKX520" or "SC-AKX320" from the Bluetooth® menu of the device.
The name of the connected device is shown for a few seconds.
- Start playback on the device.

Note:

- A device must be paired to connect.
- When "BLUETOOTH" is selected as the source, this system will automatically try to connect to the last connected device. ("LINKING" is shown during this process.)

Media playback

The following marks indicate the availability of the feature.

CD CD-R/RW in CD-DA format or with MP3 files.
USB USB device with MP3 files.
BLUETOOTH Bluetooth® device.

Basic playback

CD USB BLUETOOTH	
Play	Press .
Stop	Press . USB The position is memorised. "RESUME" is shown. Press again to stop fully.
Pause	Press . Press again to continue playback.
Skip	Press or to skip track. CD USB Press to skip MP3 album.
Search	Press and hold or .

Note:
Depending on the Bluetooth® device, some operations may not work.

Viewing available information

CD **USB** **BLUETOOTH**
You can view the available information, such as MP3 album and track number, on the display panel.

Press [DISPLAY] repeatedly.
Example: MP3 album and track number display.

	Album number	Track number

Note:

- Maximum characters that can be shown: Approximately 32
- This system supports ver. 1.0, 1.1 and 2.3 ID3 tags.
- Text data that the system does not support can show differently.

Play menu

- CD** **USB**
Press [PLAY MENU].
USB
Press [PLAY MENU] repeatedly to select "PLAYMODE".
- Press to select the setting and then press [OK].

OFF PLAYMODE	Cancel the setting.
1-TRACK	Play one selected track. Press or to select the track.
1-ALBUM	Play one selected MP3 album. Press to select the MP3 album.
RANDOM	Play all tracks randomly.
1-ALBUM RANDOM	Play all tracks in one selected MP3 album randomly. Press to select the MP3 album.
ALL REPEAT	Repeat all tracks.
1-TRACK REPEAT	Repeat 1-TRACK.
1-ALBUM REPEAT	Repeat 1-ALBUM.
RANDOM REPEAT	Repeat random playback.
1-ALBUM RANDOM REPEAT	Repeat 1-ALBUM RANDOM.

Note:

- During random playback, you cannot skip to tracks which have been played.
- The setting is cancelled when you open the disc tray or disconnect the USB device.

Link mode

BLUETOOTH
You can change the link mode to suit the connection type.

Preparation

If this system is connected to a Bluetooth® device, disconnect it (⇨ "Disconnecting a device").

- Press [PLAY MENU] repeatedly to select "LINK MODE".
- Press to select the mode and then press [OK].

MODE 1	Emphasis on connectivity.
MODE 2 (default)	Emphasis on sound quality.

Note:

- When enjoying video contents with this function, the video and audio output may not be synchronised. In this case, select "MODE 1".
- Select "MODE 1" if the sound is interrupted.

Multi Connect

AKX520
This system supports Multi Connect, which can connect up to 3 devices simultaneously.

To switch between the connected devices

When one of the connected devices is playing, you can easily switch control to another connected device simply by starting a playback on that device. The previous playback will be paused automatically.

Note:
This function may not work for some apps or devices (depending on app or device specifications).

Disconnecting a device

While a Bluetooth® device is connected

- Press [PLAY MENU] repeatedly to select "DISCONNECT?".

- Press to select "OK? YES" and then press [OK].
"BLUETOOTH READY" is shown.
To cancel, select "OK? NO".

AKX520
Using the main unit
Press and hold until "PAIRING" is shown.

Note:

- AKX520**
This function disconnects all connected devices.
- A device is disconnected when you:
 - Select a different source.
 - Move the device out of the maximum range.
 - Disable the Bluetooth® transmission of the device.
 - Switch off the system or the device.

Radio

Preparation

Press [SELECT <, >] repeatedly to select "FM" or "AM".

Manual tuning

- Press [PLAY MENU] repeatedly to select "TUNE MODE".
Or press on the main unit to select "MANUAL". Continue with step 3.
- Press to select "MANUAL" and then press [OK].
- Press or to tune in to the station.
To tune automatically, press and hold the button until the frequency starts changing quickly.
"STEREO" is shown when a stereo broadcast is being received.

Memory presetting

You can preset up to 30 FM stations and 15 AM stations.

Automatic presetting

- Press [PLAY MENU] to select "A.PRESET".
- Press to select "LOWEST" or "CURRENT" and then press [OK].
LOWEST Tuning begins from the lowest frequency.
CURRENT Tuning begins from the current frequency.
The tuner presets all the stations it can receive into the channels in ascending order.
To cancel, press .

Manual presetting

- Press [PLAY MENU] repeatedly to select "TUNE MODE".
Or press on the main unit to select "PRESET". Continue with step 3.
- Press to select "MANUAL" and then press [OK].
- Press or to tune in to the station.
- Press [OK].
- Press to select a preset number and then press [OK].
Do steps 3 through 5 again to preset more stations.
The tuner presets all the stations it can receive into the channels in ascending order.
The new station replaces any station that occupies the same preset number.

Selecting a preset station

- Press [PLAY MENU] repeatedly to select "TUNE MODE".
Or press on the main unit to select "PRESET". Continue with step 3.
- Press to select "PRESET" and then press [OK].
- Press or to select the preset station.

Improving the sound quality

When "FM" is selected

- Press [PLAY MENU] repeatedly to select "FM MODE".

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

To memorise the setting
Continue with step 4 of "Manual presetting" (⇨ above).

When "AM" is selected

- Press [PLAY MENU] repeatedly to select "B.PROOF".
- Press to select the setting that provides the best reception and then press [OK].

Checking the signal status

When "FM" is selected

For Australia and New Zealand

Press [DISPLAY] to select "FM STATUS".
Except for Australia and New Zealand

FM --- The FM signal is weak.
The system is not tuned in to a station.

FM ST The FM signal is in stereo.

FM MONO "MONO" is selected as the "FM MODE". The FM signal is in monaural.

RDS broadcasting

Except for Australia and New Zealand

This system can show the text data transmitted by the radio data system (RDS) available in some areas.

When "FM" is selected

Press [DISPLAY] repeatedly.

FREQ	Frequency
PS	Programme service
PTY	Programme type

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

AM allocation setting

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

When "AM" is selected

Press and hold on the main unit.

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.
- Preset frequencies are erased after you change the setting.

Sound effects

- Press [SOUND] repeatedly to select the effect.
- Press to select the setting and then press [OK].
Or turn [VOLUME/MULTI CONTROL] to select the setting.

PRESET EQ	"ROCK", "POP", "AFRO BEAT", "ARABIC", "PERSIAN", "INDIA BASS", "DANGDUT", "MALAY POP", "ELECTRONICA", "REGGAETON", "SALSA", "SAMBA", "FOOTBALL", "KARAOKE" AKX520 or "FLAT".
BASS/MID/TREBLE	−4 to +4 Note: These settings can change when you select a PRESET EQ setting.
SURROUND	"ON SURROUND" or "OFF SURROUND"
D.BASS LEVEL	"OFF", "LEVEL 1" to "LEVEL 6"
D.BASS BEAT	"ON D.BASS BEAT" or "OFF D.BASS BEAT" Note: • This function emphasises the attack level of the drumbeat and produces a punchy sound. Depending on the track, the effect may be small. • This function does not work when "D.BASS LEVEL" is set to "OFF".

Illumination effects

AKX520

You can change the illumination effect on the system.

Press [SETUP] repeatedly to select "ILLUMINATION" and then press to select the effect.
Or press [ILLUMINATION] repeatedly to select the effect.

COLOR A selection of 3 different illumination colours on the main unit.
AUTO Illuminate in 3 different colours and change alternately.
OFF Cancel the effect.

You can also turn [VOLUME/MULTI CONTROL] to select the next or previous effect.

Note:
When the dimmer function is switched on, the illumination on the system will remain off even when you switch on the illumination function.

DJ functions

You can use the DJ functions to add sound effects between songs.

Using the "Panasonic MAX Juke" app
You can download and install the free Android™ app "Panasonic MAX Juke" on Google Play™ for additional features, such as to request song playback from multiple devices simultaneously. You can also call up the tracks you want to play through the app. For details on the app, refer to the site below.
<http://av.jp.n.support.panasonic.com/support/global/cs/audio/app/>
(This site is in English only.)

DJ jukebox

USB
You can use the DJ jukebox function to add cross-fade effect between songs.

- Press [PLAY MENU] to select "JUKEBOX".
- Press to select the setting and then press [OK].

Using the main unit

Press [JUKEBOX] repeatedly to select the setting.

ON CROSSFADE	Cancel cross-fading.
OFF CROSSFADE	Add cross-fading.
OFF	Switch off DJ Jukebox.

Note:

- The system switches to repeat mode automatically when you switch on DJ Jukebox.
- DJ jukebox is switched off when you switch off the system or change to another source.
- The cross-fade function may not work between songs that have different sampling frequencies.

Changing the repeat setting

- Press [PLAY MENU] repeatedly to select "PLAYMODE".
- Press to select the setting and then press [OK].

RANDOM REPEAT	Repeat random playback.
RND	
ALL TITLE REPEAT	Repeat all tracks.

DJ effect

By AUX source

You can use the DJ effect function to add sound effects.

- Press [DJ] to select "DJ EFFECT SELECT NUMBER" or "ON DJ EFFECT".
To cancel, select "OFF EFFECT".
- Press [DJ1] to [DJ6] to select the effect.

[DJ1] PHASER	Add space and dimension to the sound.
[DJ2] FILTER	Enhance or filter specific ranges of the sound.
[DJ3] SOUND CHOPPER	Cut off the sound periodically.
[DJ4] ELECTRO ECHO	Add digital echo to the sound.
[DJ5] PITCH SHIFTER	Adjust the keys of the sound.
[DJ6] HARMONIZER	Add notes to the sound to create harmony.

To cancel, press the button again.

- Turn [VOLUME/MULTI CONTROL] to select the setting.

Note:
DJ effect is switched off when you switch off the system or change to AUX source.

Using a microphone

AKX520

Preparation
Decrease the volume of the system to its minimum before you connect or disconnect a microphone.

- Connect a microphone (not supplied) to the microphone jack.
Plug type: Ø 6.3 mm monoaural
- Press [SOUND] repeatedly to select "MIC VOL".
Or press and hold [-MIC VOL] until "MIC VOL" is shown.
- Press to adjust the volume of the microphone and then press [OK].
Or turn [VOLUME/MULTI CONTROL] to adjust the volume of the microphone.
- If you want to sing with the background music, play the music source and adjust the volume of the system.

Note:

- If a strange noise (howling) is emitted, move the microphone away from the speakers, or decrease the volume of the microphone.
- When you do not use the microphone, disconnect it from the microphone jack, and decrease the volume of the microphone to its minimum.

Karaoke

AKX520

Preparation

Select the music source.

Note:
The Karaoke function is switched off when you switch off the system.

Karaoke effect

You can use the Karaoke effect function to add sound effects.

- Press [SOUND] repeatedly to select "KARAOKE EFFECT" and then press to select the effect.
Or press [KARAOKE] repeatedly to select the effect.

VOCAL CANCEL	Reduce the vocal level or change the audio mode (depending on the source).
ECHO	Add an echo effect to the sound.
KEY CONTROL	Change the key of a song. Note: The setting is cancelled when you change to another source.
TEMPO	CD USB Change the speed of a song.
BGM	Change the background music level.
MIC EQ	Select a MIC EQ mode.
OFF EFFECT	Cancel the effect. Press [OK] to confirm. Or press and hold [-OFF] until "OFF EFFECT" is shown.

To check the current setting, press [OK].

- Press or to select the setting and then press [OK].
Or turn [VOLUME/MULTI CONTROL] to select the setting.

VOCAL CANCEL	"OFF", 1 to 3, "L", "R", "L+R" <i>When using stereo source not formatted for Karaoke</i> It is recommended to use "2 VOCAL CANCEL" for most songs. <i>When using Karaoke formatted source</i> L: Only left channel sound (accompaniment only) R: Only right channel sound (vocals only) L+R: Left and right channel sounds are mixed
ECHO	"OFF", 1 to 4
KEY CONTROL	−6 to +6
TEMPO	"OFF", −2 to +2
BGM	"OFF", 1 to 3
MIC EQ	"SINGING" or "SPEECH"

Note:
To use Karaoke effect in AUX source, set "AUX MODE" to "MODE 1" (⇨ "AUX mode").

Clock and timers

Setting the clock

This is a 24-hour clock.

- Press [SETUP] to select "CLOCK".
- Press to set the time and then press [OK].

To check the time