

Panasonic

Operating Instructions

CD Stereo System

Model No. SC-AK270

Dear customer

Thank you for purchasing this product.

For optimum performance and safety, please read these instructions carefully.

These operating instructions are applicable to the following system.

System	SC-AK270
Main unit	SA-AK270
Speakers	SB-AK270

SUPPLIED ACCESSORIES

Please check and identify the supplied accessories. Use numbers indicated in parentheses when asking for replacement parts. (As of January 2008)

1 x AC mains lead

For the United Kingdom

(K2CT3CA00004)

For Continental Europe

(K2CQ2CA00006)

For Australia and N.Z. (K2CJ2DA00008)

1 x Remote Control

(N2QAYB000243)

1 x FM indoor antenna

(RSA0007-L1)

1 x AM loop antenna

(N1DYYYY00003)

Unless otherwise indicated, illustrations in these operating instruction are for the United Kingdom and Continental Europe.

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

Your unit may not look exactly the same as illustrated.

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Before connecting, operating or adjusting this product, please read these instructions completely. Please keep this manual for future reference.

Note:

"EB" on the packaging indicates the United Kingdom.









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CLASS 1 LASER PRODUCT



LUOKAN 1 LASERLAITE KLASS 1 LASER APPARAT

CAUTION	 CLASS 1M INVISIBLE LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEO60825-1 +A2/ Class 1M
VARNING	 KLASS 1M OSYNLIG LASERSTRÄLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÄLEN DIREKT GENOM OPTISKT INSTRUMENT.
FORSIGTIG	 USYNLIG LASERSTRÄLING KLASSE 1M, NÄR LÄGET ER ÄBENT. UNDGÅ AT SE LIGE PÅ MED OPTISKE INSTRUMENTER.
VARO!	 AVATTAESSA OLET ALTTIINA LUOKAN 1M NÄKYMÄTÖNTÄ LASERSÄTEILYÄ. ÄLÄ KATSO OPTISELLA LAITTEELLA SUORAAN SÄTEESEEN.
VORSICHT	 UNSICHTBARE LASERSTRAHLUNG KLASSE 1M, WENN ABDECKUNG GEÖFFNET. NICHT DIREKT MIT OPTISCHEN INSTRUMENTEN BETRACHTEN.
ATTENTION	 RAYONNEMENT LASER INVISIBLE, CLASSE 1M, EN CAS D'OUVERTURE. NE PAS REGARDER DIRECTEMENT À L'AIDE D'INSTRUMENTS D'OPTIQUE.
注意	ここを開くと不可視レーザ光が出ます。ビームを見たり、触れたりしないでください。
注意	- 打开时有不可见激光辐射。避免光束照射。 GB7241.1-2001/3B 类 PQLXS0071

Inside of product Tuotteen sisällä Produktets innside

■ Sales and Support Information (For the United Kingdom and Republic of Ireland)

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

- 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.

- If you see this symbol -

Information on Disposal for Users of Waste Electrical & Electronic Equipment (private households)



This symbol on the products and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste. For proper treatment, recovery and recycling, please take these products to designated collection points, where they will be accepted on a free of charge basis. Alternatively, in some countries you may be able to return your products to your local retailer upon the purchase of an equivalent new product.

Disposing of this product correctly 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. Please contact your local authority for further details of your nearest designated collection point. 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

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.

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 BATTÉRIES 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.

SUOMI

VAROITUS!

LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VAROITUS:

VÄHENNÄ TULIPALON, SÄHKÖISKUN TAI LAITTEISTON VAHINGOITTUMISEN VAARAA

- TÄTÄ LAITETTA EI SAA ALTISTAA SATEELLE, KOSTEUDELLE, ROISKEILLE TAI TIPPUVILLE NESTEILLE. LAITTEEN PÄÄLLE EI SAA MYÖSKÄÄN ASETTAA MITÄÄN NESTEELLÄ TÄYTETTYÄ ESINETTÄ, KUTEN MALJAKKOA.
- KÄYTÄ VAIN SUOSITELTUJA LISÄVARUSTEITA.
- ÄLÄ IRROTA KANTTA (TAI TAUSTAA). SISÄLLÄ EI OLE KÄYTTÄJÄN HUOLLETTAVISSA OLEVIA OSIA. HUOLLON SAA SUORITTAA VAIN AMMATTITAITOINEN HENKILÖKUNTA.

VAROITUS!

- ÄLÄ ASENNA TAI LAITA TÄTÄ LAITETTA KABINETTITYYPPISEEN KIRJAKAAPPIIN TAI MUUHUN SULJETTUUN TILAAN, JOTTA TUULETUS ONNISTUISI. VARMISTA ETTÄ VERHO TAI MIKÄÄN MUU MATERIAALI EI HUONONNA TUULETUSTA, JOTTA VÄLTETTÄISIIN YLIKUUMENEMISESTA JOHTUVA SÄHKÖISKU-TAI TULIPALOVAARA.
- ÄLÄ PEITÄ LAITTEEN TUULETUSAUKKOJA SANOMALEHDELLÄ, PÖYTÄLIINALLA, VERHOLLA TAI MUULLA VASTAAVALLA ESINEELLÄ.
- ÄLÄ ASETA PALAVAA KYNTTILÄÄ TAI MUUTA AVOTULEN LÄHDETTÄ LAITTEEN PÄÄLLE.
- HÄVITÄ PARISTOT LUONTOA VAHINGOITTAMATTOMALLA TAVALLA.

Pistorasia tulee asentaa laitteen lähelle helppopääsyiseen paikkaan.

Verkkojohdon pistokkeen on oltava aina helposti käytettävissä. Tämä laite voidaan kytkeä kokonaan irti verkkovirrasta irrottamalla verkkojohdon pistoke pistorasiasta.

NORSK

ADVARSEL!

DETTE PRODUKTET ANVENDER EN LASER.
BETJENING AV KONTROLLER, JUSTERINGER ELLER
ANDRE INNGREP ENN DE SOM ER BESKREVET I DENNE
BRUKSANVISNING, KAN FØRE TIL FARLIG BESTRÅLING.
DEKSLER MÅ IKKE ÅPNES, OG FORSØK ALDRI Å
REPARERE APPARATET PÅ EGENHÅND. ALT SERVICE OG
REPARASJONSARBEID MÅ UTFØRES AV KVALIFISERT
PERSONELL.

ADVARSEL:

FØLG NEDENSTÅENDE INSTRUKSER FOR Å REDUSERE RISIKOEN FOR BRANN, ELEKTRISK STØT OG SKADE PÅ PRODUKTET:

- DETTE APPARATET MÅ IKKE UTSETTES FOR REGN, FUKTIGHET, DRYPP ELLER SPRUT, OG INGEN VÆSKEFYLTE GJENSTANDER, SOM F.EKS. VASER, MÅ PLASSERES PÅ APPARATET.
- BRUK KUN ANBEFALT TILBEHØR.
- IKKE FJERN DEKSELET (ELLER BAKSIDEN); APPARATET INNEHOLDER INGEN DELER SOM KAN SKIFTES ELLER REPARERES AV BRUKEREN. OVERLAT TIL KVALIFISERTE SERVICETEKNIKERE Å UTFØRE SERVICE.

ADVARSEL!

- APPARATET MÅ IKKE PLASSERES I EN BOKHYLLE, ET INNEBYGGET KABINETT ELLER ET ANNET LUKKET STED HVOR VENTILASJONSFORHOLDENE ER UTILSTREKKELIGE. SØRG FOR AT GARDINER ELLER LIGNENDE IKKE FORVERRER VENTILASJONSFORHOLDENE, SÅ RISIKO FOR ELEKTRISK SJOKK ELLER BRANN FORÅRSAKET AV OVERHETING UNNGÅS.
- APPARATETS VENTILASJONSÅPNINGER MÅ IKKE DEKKES TIL MED AVISER, BORDDUKER, GARDINER OG LIGNENDE.
- PLASSER IKKE ÅPEN ILD, SLIK SOM LEVENDE LYS, OPPÅ APPARATET.
- BRUKTE BATTERIER MÅ KASSERES UTEN FARE FOR MILJØET.

Strømuttaket må befinne seg i nærheten av utstyret og være lett tilgjengelig.

Støpslet på strømkabelen må være klart til bruk.

Når dette apparatet skal kobles helt fra strømnettet (AC), må støpslet på strømkabelen trekkes ut av stikkontakten.

THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

TÄMÄ LAITE ON TARKOITETTU KÄYTETTÄVÄKSI LEUDOSSA ILMASTOSSA.

DETTE APPARATET ER BEREGNET TIL BRUK UNDER MODERATE KLIMAFORHOLD.

Caution for AC Mains Lead

For United Kingdom, "EB" area code model only.

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 \circledast or the BSI mark \heartsuit 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 \(\perp \) OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use

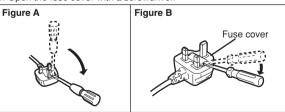
Remove the connector cover.

How to replace the fuse

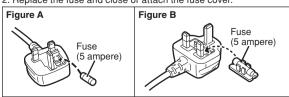
The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.



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



Safety precautions

Placement

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

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

Do not place heavy items on the unit.

Voltage

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

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

AC mains lead protection

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

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

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

Foreign matter

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

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

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

Service

Do not attempt to repair this unit by yourself. If sound is interrupted, indicators fail to light, smoke appears, or any other problem that is not covered in these instructions occurs, disconnect the AC mains lead and contact your dealer or an 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.

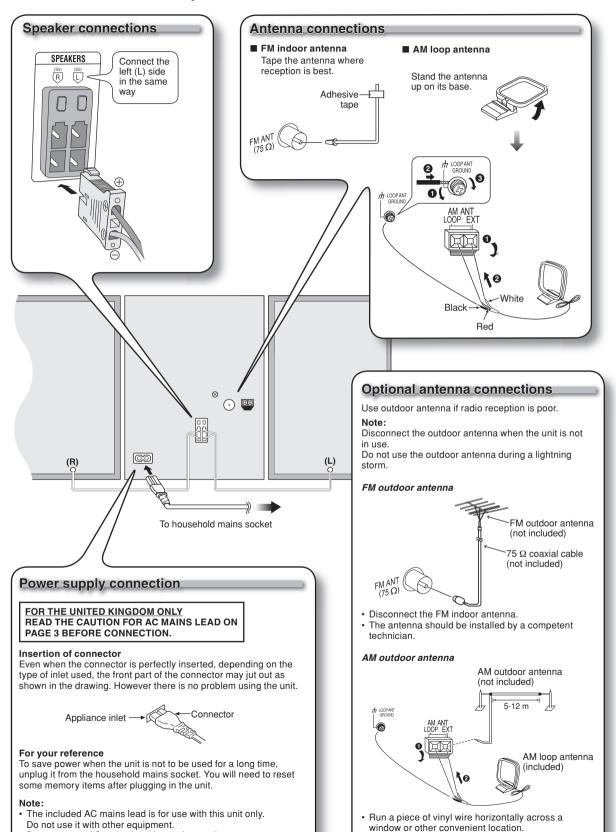
Caution

- 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.

Simple setup

Making the connections

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



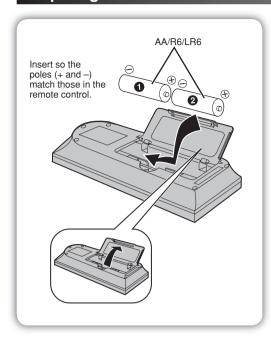
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Leave the loop antenna connected.

Do not use an AC mains lead from other equipment.

Preparing the remote control



Do not:

- · mix old and new batteries.
- · use different types of batteries at the same time.
- · take apart or short circuit the batteries.
- attempt to recharge alkaline or manganese batteries.
- · use batteries if the covering has been peeled off.

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.

■ Use

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

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.

- · Do not use rechargeable type batteries.
- 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.

DEMO function



When the unit is first plugged in, a demonstration of its functions may be shown on the display.

If the demo setting is off, you can show a demonstration by selecting "DEMO ON"

Press and hold [-■ STOP, -DEMO] on the main unit.

The display changes each time you press and hold the button. NO DEMO (off) ↔ DEMO ON (on)

While in standby mode, select "NO DEMO" to reduce power consumption.

Note:

DEMO function cannot be turned on when DIMMER is on.

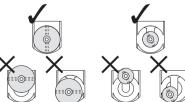
Handling of the disc trays and discs

Not doing the following will cause damage to the unit.

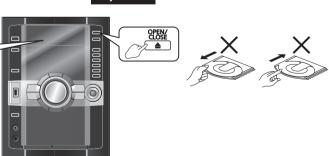
Removing the mains plug

Press [0/I] to turn off the unit and remove the mains plug only after all the displays have disappeared.

Inserting a disc



Tray caution



- Place the disc correctly with the label facing up as shown in the diagram.
- Insert one disc into the tray.

- Always press [♠, OPEN/CLOSE] to insert or remove a disc.
- Do not push or pull out the tray by hand as this will cause an accident.

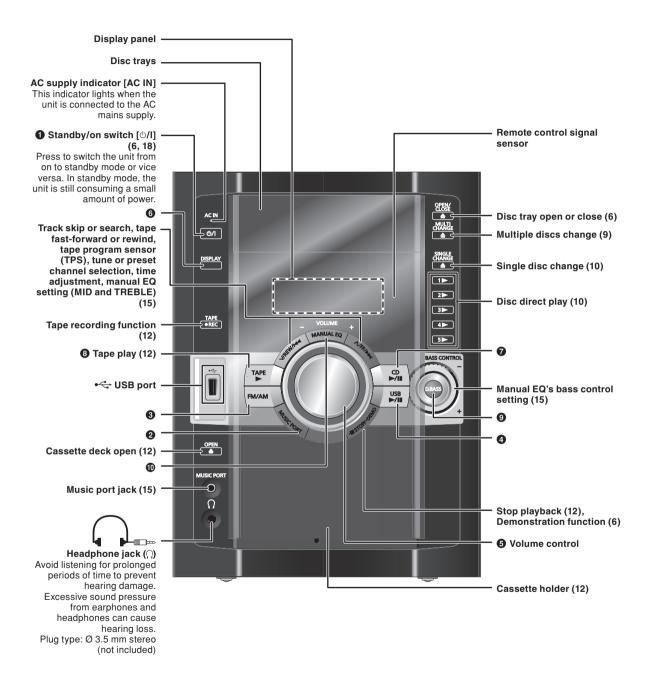
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Overview of controls

Main unit

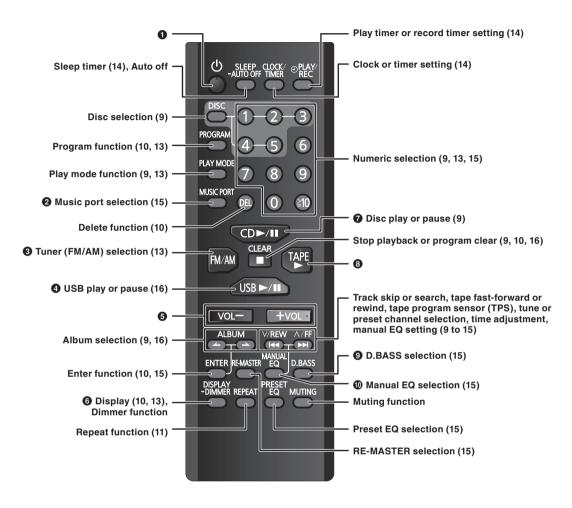
Refer to the numbers in parentheses for page reference. Buttons labelled such as 1 function in exactly the same way as the controls on the remote control.



Overview of controls (continued)

Remote control

Buttons labelled such as 1 function in exactly the same way as the controls on the main unit.





This auto off function allows you to turn off the unit in **disc**, **tape or USB** mode only after left unused for 10 minutes.

- Press and hold [SLEEP, –AUTO OFF] to activate the function.
- Press and hold [SLEEP, –AUTO OFF] again to cancel.
- The setting is maintained even if the unit is turned off.

-DISPLAY

To dim the display panel.

- Press and hold [DISPLAY, –DIMMER] to activate.
- Press and hold [DISPLAY, –DIMMER] again to cancel.



To mute the sound.

- · Press the button to activate.
- Press the button again or adjust the volume to cancel.



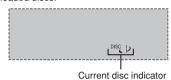
Basic play

Press [♠, OPEN/CLOSE] on the main unit to open the tray. The unit turns on, load a disc in the current tray with the label facing up.

Press [♠, OPEN/CLOSE] to close the tray.

2 Press [►/II, CD] to start play.

You can also press [DISC] and then [1] ~ [5] to select and play the other loaded discs.



То	Action
Stop play CLEAR	Press [■, CLEAR] during play. MP3 Display when in the stop mode: Example: "MP3" indicates the disc contains MP3 files.
	Total number Total number of albums of tracks

	8007T087	1 DISC
Pause play	Press [▶/II, CD] during play.	

CD►/II

Press again to resume play.

Skip album ÁLBUM

MP3

Press [ALBUM (or)] to select the desired album during play or when in stop mode.

· This function does not work during 1-DISC RANDOM and ALL-DISC RANDOM mode.

Skip tracks

Press [I◀◀, ∨/REW] or [►►I, ∧/FF].

• During random play (➡ see right, "Play Mode function"), you cannot skip to tracks which have been played.

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 [\blacktriangleleft , \lor /REW] or [\blacktriangleright +, \land /FF] during play or pause to search.

 During program play (→ page 10), or random play (→ see right, "Play Mode function"), you can search only within the track.

PLAY MODE **Play Mode function**

CD MP3

You can listen to specific discs and tracks.

Preparation

Select and play your desired disc.

Press [PLAY MODE] to select the desired mode.

Mode	To play
1-DISC	One selected disc.
ALL DISC	All loaded discs in succession from the selected disc to the final disc. Example: $4 \rightarrow 5 \rightarrow 1 \rightarrow 2 \rightarrow 3$.
1-TRACK	One selected track on the selected disc. CD Press the numeric buttons to select the track in the current disc. Play starts from the selected track.
ALBUM (2)	Press [ALBUM (∠ or △)] to select the album. Press [I◄◄, ∨/REW] or [▶►I, ∧/FF], or the numeric buttons to select the track in the current album. Play starts from the selected track.
1-ALBUM 1-ALB ALBUM	MP3 One selected album on the selected disc. Press [ALBUM (∠ or →)] to select the album.
1-DISC RANDOM 1 DISC RND	One selected disc randomly.
1- ALBUM RANDOM 1-ALB RND ALBUM	All tracks in one selected album randomly. Press [ALBUM (or)] to select the album.
ALL-DISC RANDOM ALL DISC RND	All loaded discs randomly.

When playback ends

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

You cannot use program mode together with "Play Mode function".



Changing multiple discs (MULTI CHANGE)

By main unit only

Press [♠, MULTI CHANGE] to open the trays.

2 Press the button repeatedly to check and change multiple discs.

- · The tray with a disc being played will not open.
- · If the player is stopped, all trays will open. To close the remaining trays simultaneously, press [▲, OPEN/CLOSE].

Discs (continued)



Changing a single disc (SINGLE CHANGE)

By main unit only

While one disc is playing, you can change the discs in other trays.

- **1** Press [▲, SINGLE CHANGE].
- 2 Press [▶, 1] ~ [▶, 5] to select the desired tray.
- 3 Change the disc.
- 4 Press [♠, SINGLE CHANGE] again to close the tray.

-DISPLAY

Checking the track information



You can select a desired disc display mode.

Press [DISPLAY, -DIMMER] during play or pause.

CD

Elapsed play time ↔ Remaining play time



Note:



- When a title is longer than 8 characters, it will scroll across the display. The scrolling will start after every 3 seconds.
- "NO TAG" is displayed if titles with tags have not been entered.
- Maximum number of displayable characters: approximately 32
- This unit can display album, track and artist name with MP3 ID3 tags (version 1.0 and 1.1).
- Titles containing text data that the unit does not support cannot be displayed.
- ID3 is a tag embedded in MP3 track to provide information about the track.
- Titles entered with 2-byte code cannot be displayed correctly on this unit.

Advanced play

PROGRAM

Program play



This function allows you to program up to 24 tracks.

CD

- 1 Press [►/II, CD] and then [■, CLEAR].
- **2** Press [PROGRAM]. "PGM" appears.
- 3 Press [DISC] and then [1] ~ [5] to select the disc.
- **4** Press the numeric buttons to select your desired track. Repeat steps 3 to 4 to program other tracks.
- **5** Press [▶/II, CD] to start play.

MP3

- 1 Press [DISC] and then [1] ~ [5] to select the disc.
- 2 Press [■, CLEAR].
- 3 Press [PROGRAM].
- 4 Press [ALBUM (∠ or →)] to select your desired album. To select an album directly, press the numeric buttons after pressing [ALBUM (∠ or →)].
- 5 Press [◄◄, ∨/REW] or [►►I, ^/FF] to select the track. To select a track directly, press the numeric buttons after pressing [◄◄, ∨/REW] or [►►I, ^/FF].
- 6 Press [ENTER].

Repeat steps 4 to 6 to program other tracks.

7 Press [▶/II, CD] to start play.

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

То	Action
Cancel program mode	Press [PROGRAM] in the stop mode.
Replay the program	Press [PROGRAM] then [▶/III, CD] in the stop mode.
Add to the program	CD Repeat steps 3 to 4 in the stop mode. MP3 Repeat steps 4 to 6 in the stop mode.
Check program contents	Press [I◄◄, V/REW] or [▶►I, ∧/FF] when "PGM" is displayed in the stop mode. CD The track number, program order and disc number are displayed:
	Track Program number order
	DISC
	MP3 The program order is displayed followed by the album number and track number.
Clear the last track	Press [DEL] in the stop mode.
Clear all programmed tracks	Press [■, CLEAR] in the stop mode. "CLR ALL" is displayed. Within 5 seconds, press the button again to clear all tracks.

Note:

· You cannot program CD-DA together with MP3 tracks.

MP3

- The program memory is cleared when you change a disc or open the disc tray.
- · You cannot program more than one disc.

Repeat play

CD MP3

You can repeat program play or other selected play mode.

Press [REPEAT].

"C" is displayed.

To cancel

Press [REPEAT] again.

"O" is cleared.

Note:

You can use repeat mode with "Program play" (→ page 10) and "Play Mode function" (→ page 9).

NOTE on CDs

- This unit can access up to 99 tracks.
- Choose disc with this mark.



- · 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 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.

When "NOT MP3/ERROR1" appears on the display, an unsupported MP3 format is being played. The unit will skip that track and play the next one.

- 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.

Cassette tape - Play and record

The buttons described for "Cassette tape – Play and record" are mainly using the main unit unless indicated otherwise.



Use normal position tapes.

High position and metal position tapes can be played, but the unit will not be able to identify the characteristics of these tapes.

1 Press [▶, TAPE].

The unit turns on.

If a cassette was loaded, play starts automatically (One touch play).

2 Press [**≜**, OPEN] and insert the cassette.

Insert with the side to be played facing towards you and the exposed tape facing down. Close the holder by hand.

3 Press [►, TAPE] to start play.

STOP, -DEMO].



Fast-forward and

Press [\vee /REW/I \blacktriangleleft] or [\wedge /FF/ $\blacktriangleright \blacktriangleright$ I] in the stop mode.

Note:

- Tapes exceeding 100 minutes are thin and can break or get caught in the mechanism.
- Tape slack can get caught up in the mechanism and should be wound up before the tape is played.

TPS (Tape Program Sensor)

This function enables you to search the beginning of up to a maximum of 9 tracks.

Press [\vee /REW/ \blacktriangleleft] or [\wedge /FF/ \blacktriangleright \blacktriangleright] during play.

Play resumes from the track found.

Note:

TPS may not operate correctly in the following situations:

- If the interval between tracks is less than 4 seconds.
- · If there is noise between tracks.
- If there are silent parts within tracks.



Selection of tapes for recording

Use normal position tapes.

High position and metal position tapes can be used, but this unit will not be able to record or erase them correctly.

Preparation

Wind up the source tape so recording can begin immediately.

1 Press [A, OPEN] and insert the cassette to be recorded. Insert with the side to be recorded facing towards you and the exposed tape facing down.

$m{2}$ Select the source to be recorded.

Radio recording:
Tune in the station. (→ page 13)

Disc recording:

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

То	Action	
Record programmed tracks	CD Perform steps 2 to 4 in "Program play" (→ page 10).	
	MP3 Perform steps 3 to 6 in "Program play" (→ page 10).	
By remote co	Ry remote control only	

By remote control only

Record specific discs or tracks

- 1) Press [DISC] and then [1] ~ [5] to select the disc.
- Ensure disc is stopped.2) Press [PLAY MODE] to select the desired mode (→ page 9).
- 3) (MP3)

For 1-ALBUM mode and 1-TRACK mode: Press [ALBUM (or)] to select the album.

CD MP3

For 1-TRACK mode:

Press [I \blacktriangleleft , \lor /REW] or [$\blacktriangleright \blacktriangleright$ I, \land /FF] to select the track.

3 Press [● REC, TAPE] to start recording.

Other basic operations

То	Action
Stop recording	Press [-■ STOP, -DEMO].
Record on the other side of the tape TAPE • REC	Turn the cassette over and press [● REC, TAPE].
Erase a recorded sound	 Press [►, TAPE] and then [-■ STOP, -DEMO]. Insert the recorded cassette. Press [● REC, TAPE].

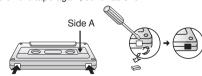
Your attention is drawn to the fact that recording pre-recorded tapes or discs or other published or broadcast material may infringe copyright laws.

Note:

Changes to volume and sound quality do not affect recording.

Erasure prevention

The illustration shows how to remove the tabs to prevent recording. To record on the tape again, cover as shown.



Tab for side B Tab for side A

To re-record Normal cassette



Adhesive tape

Using the FM/AM radio



PLAY MODE

Manual tuning

- 1 Press [FM/AM] to select "FM" or "AM".
- **2** Press [PLAY MODE] to select "MANUAL".
- $m{3}$ Press [◄◄, \vee /REW] or [▶▶।, \wedge /FF] 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◄◄, V/REW] or [▶►I, ∧/FF] 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 [◄◄, V/REW] or [▶►I, A/FF] once again.

PLAY MODE

To improve the sound quality

When "FM" is selected.

Press and hold [PLAY MODE] to display "MONO".

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

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

When "AM" is selected

Press and hold [PLAY MODE].

Each time you press button: BP2 ↔ BP1 • The setting is recalled whenever "AM" is selected.

For the United Kingdom and Continental Europe

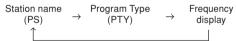


RDS broadcasting

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, -DIMMER] to display:



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

※ M-O-R- M = Middle-of-the-Road music

RDS displays may not be available if reception is poor.



Memory preset

25 FM and 15 AM stations can be preset.

Preparation

Press [FM/AM] to select "FM" or "AM".

Automatic presetting

- 1 Tune to the frequency where presetting is to begin.
- Press and hold [PROGRAM] to start presetting.



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

PROGRAM

Manual presetting

- 1 Press [PLAY MODE] to select "MANUAL".
- **2** Press [\blacktriangleleft , \lor /REW] or [\blacktriangleright \blacktriangleright], \land /FF] to tune to the required
- 3 Press [PROGRAM].
- 4 Press the numeric buttons to select a channel. For channels 10 to 25 press [≥10], then the two digits. The station occupying a channel is erased if another station is preset to that channel.

PLAY MODE

Selecting a preset station

Press the numeric buttons to select the channel.



OR

- 1 Press [PLAY MODE] to select "PRESET".
- **2** Press [◄◄, ∨/REW] or [▶▶, ∧/FF] to select the channel.

Using the timers



Setting the clock

This is a 24-hour clock.

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

Each time you press the button:

2 (Within 8 seconds or so)

Press [$\blacktriangleleft \blacktriangleleft$, \lor /REW] or [$\blacktriangleright \blacktriangleright$], \land /FF] to set the time.

3 Press [CLOCK/TIMER] to finish setting the time.

Displaying the clock

Press [CLOCK/TIMER] once when the unit is on or in standby mode. The time is displayed for a few seconds.

Note:

Reset the clock regularly to maintain accuracy.



Using the play or record timer

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

Play timer and record timer cannot be used together.

Turn the unit on and set the clock.

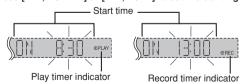
Timer	Action
Play timer	Prepare the music source you want to listen to; cassette, disc number (1 to 5), radio or other external equipments, and set the volume.
Record timer	Check the cassette's erasure prevention tabs (→ page 12), insert the cassette and tune to the radio station (→ page 13) or select the external equipment (→ page 15 to 16).

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

PLAY: to set the play timerREC: to set the record timer

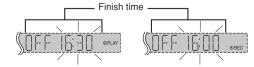
(Proceed to the next step within 8 seconds

2 Press [\blacktriangleleft , \vee /REW] or [\blacktriangleright \blacktriangleright I, \wedge /FF] to set the starting time.



3 Press [CLOCK/TIMER] to confirm.

4 Repeat steps 2 to 3 to set the finishing time.



To activate the timer

5 Press [@PLAY/REC] repeatedly to turn on your desired timer.

 \oplus **PLAY** $\rightarrow \oplus$ **REC** \rightarrow no display (off)

6 Press [\circlearrowleft] to turn off the unit.

The unit must be off for the timers to operate.

Other basic operations

То	Action
Change the settings	Repeat steps 1 to 4 and 6 (➡ see left and above).
Change the source or volume	 Press [⊕PLAY/REC] to clear the timer indicator from the display. Make changes to the source or volume. Perform steps 5 to 6 (➡ see above).
Check the settings	Press [CLOCK/TIMER] repeatedly to select ①PLAY or ②REC.
Cancel	Press [@PLAY/REC] to clear the timer indicators from the display.

If you use the unit after the timers are set

After using, check that the correct tape or disc are loaded before turning the unit off.

Note:

- The play timer will start at the preset time with volume increasing gradually to preset level.
- The record timer will start 30 seconds before the set time with the volume muted.
- The timer comes on at the set time every day if the timer is on.
- The unit must be in the standby mode for the timer to function.
- If you turn the unit off and on again while a timer is functioning, the finish time setting will not be activated.
- If MUSIC PORT or USB is selected as the source when the timer comes on, the system turns on and engages MUSIC PORT or USB as the source. If you wish to playback or record from the other equipments, just activate the equipments' play mode and increase the volume. (See the other equipments' instruction manual.)



Using the sleep timer

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

Press [SLEEP, -AUTO OFF] to select your desired time.



To cancel

Press [SLEEP, -AUTO OFF] to select "OFF".

Changing the remaining time

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

- The play and sleep timer or the record and sleep timer can be used together.
- The sleep timer always has priority. Be sure not to overlap timer settings.
- The sleep timer turns off when you perform the record function.

Using sound effects



Changing the sound quality: Preset EQ

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

HEAVY
$$\rightarrow$$
 SOFT \rightarrow CLEAR \rightarrow VOCAL \rightarrow DISCO

The flat (off) \leftarrow HALL \leftarrow LIVE \leftarrow

Setting	Effect
HEAVY	Adds punch to rock
SOFT	For background music
CLEAR	Clarifies higher frequencies
VOCAL	Adds gloss to vocal
DISCO	Produces sound with the same kind of lengthy reverberations heard at a disco
LIVE	Makes vocals more alive
HALL	Adds an expansiveness to the sound to produce the atmosphere of a great concert hall
FLAT	No effect



Changing the sound quality: Manual EQ

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

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

2 Press [◄◄, ∨/REW] or [▶▶, ∧/FF] to adjust the level.

OR

By main unit only

Setting the BASS:

Turn [BASS CONTROL] to either increase (+) or decrease (-) the pitch.

Note:

- The level of the pitch is between -3 to +3.
- The changes you make are stored and automatically recalled the next time you select "MANUAL EQ".



Changing the sound quality: RE-MASTER

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

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

Note:

- During CD (MP3) or USB selection, the re-master effect is digital.
- · As for MUSIC PORT selection, the re-master effect is analogue.



Enjoying the bass: D.BASS

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

Using other equipment

Note:

All peripheral components and cables are sold separately.



Avoid interfering with other Panasonic equipment

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

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

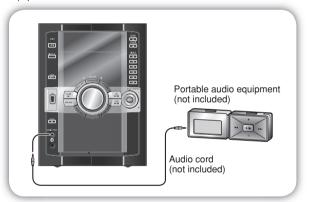
The main unit and remote control must be set to the same mode.

- 1 Press and hold [MUSIC PORT] on the main unit and [2] on the remote control until the main unit's display shows "REMOTE 2".
- 2 Press and hold [ENTER] and [2] on the remote control for at least 2 seconds.

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

Connecting to a portable audio equipment

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



MUSIC PORT

Playing or recording from a portable audio equipment

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

- 1 Plug the audio cord into the MUSIC PORT jack.
- 2 Press [MUSIC PORT] repeatedly until "MUSIC PORT" is displayed

For listening: Proceed to step 3.

For recording: Press [REC, TAPE] on the main unit to start

recording.

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

Using other equipment (continued)

Connecting and playing a USB mass storage device

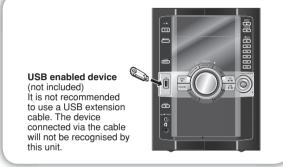


The USB connectivity enables you to connect and play MP3 tracks from USB mass storage class. Typically, USB memory devices. (Bulk only transfer)

Preparation

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

It is not recommended to use a USB extension cable. The USB device is not recognised by this unit.



- 1 Reduce the volume and connect the USB mass storage device.
- **2** Press [►/II, USB] to start play.

Other basic operations

То	Action
Pause play	Press [▶/II, USB]. Press again to resume play.
038 -/ 11	
Stop play CLEAR	Press [■, CLEAR]. "RESUME" is displayed. The position is memorised. Press [▶/II, USB] to resume play. Press [■, CLEAR] again to clear the position.
Skip tracks V/REW	Press [i◀◀, ∨/REW] or [▶▶I, ∧/FF].
Skip album ALBUM	Press [ALBUM (ar a b)] in the play mode. Press [ALBUM (ar a b)] once and then the numeric buttons in the stop mode.

TAPE ● REC

Recording from a USB mass storage device

- Press [i◄◄, V/REW] or [▶▶I, A/FF] to select the desired track for recording.
- **2** Press [● REC, TAPE] on the main unit to start recording.

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

Files 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.
- This unit can access up to 255 albums (including blank folders) and 2500 tracks.
- The maximum number of tracks in a folder are 999 tracks.
- Only one memory card will be selected when connecting a multiport USB card reader. Typically the first memory card inserted.
- Disconnect the USB card reader from the unit when you remove the memory card. Failure to do so may cause malfunction to the device.
- When you connect your digital audio player to the USB port, it charges all the time except in standby mode or during tape recording.

Troubleshooting guide

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

■ Common problems		Page
When the unit is in standby mode, the display lights up and changes continuously.	Turn off the demo function. If you set the clock, demo function will be turned off automatically.	6 14
No response when remote control buttons are pressed.	Check that the batteries are installed correctly.	6
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.	Ξ
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.	_
"ERROR" is displayed. "ERROR" is displayed during recording.	 Incorrect operation performed. Read the instructions and try again. You are not able to select other playback source (example: radio, USB and etc.) or press [I◄◄, ∨/REW] or [►►I, ∧/FF] during recording. Stop the recording function. 	<u> </u>
":" appears on the display during standby mode.	You plugged the AC mains lead in for the first time or there was a power failure recently. Set the time.	— 14
"F61" is displayed.	Check and correct the speaker cords connection. If this does not fix the problem, consult the dealer.	5
"F76" is displayed.	There is a power supply problem. Consult the dealer.	

■ Playing the 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.	6 — —
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.	_
"VBR-" is displayed instead of the remaining play time.	The unit cannot display the remaining play time for variable bit rate (VBR) tracks.	

■ Using the cassette deck

Poor sound quality.	Clean the heads.	18
Recording cannot be performed.	If the erasure prevention tabs have been removed, cover the holes with adhesive tape.	12

■ Using the USB device

No response when [● REC, TAPE] button is pressed.	Disconnect the USB device and then reconnect it back. Alternatively, turn the unit off and then back on.	_
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.	16 — —
Slow operation of the USB device.	Large file size or high memory USB flash drive takes longer time to read.	_
"USB OVER CURRENT ERROR"	The USB device is drawing too much power. Disconnect the USB device. Turn the unit off and then back on.	_
"NO PLAY"	Check the content. Only MP3 format files can be played.	_

0700VTO

Troubleshooting guide (continued)

■ Listening to the radio		Page
Distorted sound or noise is heard. The stereo indicator flickers or does not light.	Use an outdoor antenna.	5
A beat sound is heard.	Turn the television off or move it away from the unit.	_
A low hum is heard during AM broadcast.	Separate the antenna from other cables and cords.	_

■ Disc trays

Disc tray(s) cannot open. "CHGR ERR" is displayed.	Press [Φ/l] to release the jammed tray(s) as the unit will switch off. Turn it on again and the tray(s) will initialise to the previous tray(s) condition.	_
	If this still does not fix the problem, please consult the dealer.	_

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)
- While pressing and holding down [₺/l] on the main unit, reconnect the AC mains lead.

 "---" appears on the display.

All the settings are returned to the factory preset. You will need to reset the memory items.

Maintenance

If the surfaces are dirty

To clean this unit, wipe with a soft, dry cloth.

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

For a cleaner crisper sound (cassette deck)

Clean the heads regularly to assure good quality playback and recording. Use a cleaning tape (not included).

When moving the unit

- 1 Remove all discs.
- 2 Press [७/I] to turn the unit off.
- 3 Disconnect the AC mains lead.

Specifications

AMPLIFIER SECTION

RMS Output power stereo mode

THD 10%, both channels driven

1 kHz 125 W per channel (3 Ω) Total RMS stereo mode power 250 W

Total Hills Stereo Illode power

FM/AM TUNER, TERMINALS SECTION

Preset station FM 25 stations AM 15 stations

25 stations FAT 32

Frequency Modulation (FM)

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

Amplitude Modulation (AM)

Frequency range 522 to 1629 kHz (9 kHz step)

Music Port (front) jack

 $\begin{array}{ll} \mbox{Sensitivity} & 100 \mbox{ mV}, 4.0 \mbox{ k}\Omega \\ \mbox{Terminal} & \mbox{Stereo}, 3.5 \mbox{ mm} \mbox{ jack} \\ \end{array}$

Headphone jack

Terminal Stereo, 3.5 mm jack

Output impedance $32 \Omega (Max)$

CASSETTE DECK SECTION

Type 1 way

Track system 4 track, 2 channel

Heads

Record/playback Solid permalloy head

 Erasure
 Double gap ferrite head

 Motor
 DC servo motor

 Recording system
 AC bias 100 kHz

 Erase system
 AC erase 100 kHz

Tape speed 4.8 cm/s

Overall frequency response (+3 dB, -6 dB) at DECK OUT NORMAL 35 Hz to 14 kHz

 S/N Ratio
 50 dB (A weighted)

 Wow and flutter
 0.18% (WRMS)

Fast forward and rewind time

Approx. 120 seconds with C-60 cassette tape

DISC SECTION

Disc played [8 cm or 12 cm]

(1) CD-Audio (CD-DA)

(2) CD-R/RW (CD-DA, MP3 $^{\times}$ formatted disc)

(3) MP3 $^{\times}$

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

Pick up

Wavelength 780 nm

Beam Source Semiconductor laser

NORSK

Bølgelengde 780 nm

Laserstyrke Ingen farlig stråling sendes ut

Audio output (Disc)

Number of channels 2 (FL, FR)

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

USB port power 500 mA (Max)

SPEAKER SECTION

Type 2 way, 2 speaker system (Bass reflex)

Speaker(s)

41 Hz to 25 kHz (–10 dB)

Dimensions (WxHxD) 219 x 334 x 196 mm

Mass 2.6 kg

GENERAL

Power supply
Power consumption
Pomensions (WxHxD)

Mass
Operating temperature range
Operating humidity range

AC 230 to 240 V, 50 Hz
250 x 331 x 342 mm
4.7 kg
0°C to 40°C
35% to 80% RH (no condensation)

Power consumption in standby mode: 0.4 W (approx.)

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



Web Site: http://panasonic.net

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



RQTV0279-2B L0108KE2038

RQTV0279-2B.indd 20 3/3/08 4:33:49 PM