

User manual



Important notes for users in the U.K.

Mains plug

This apparatus is fitted with an approved 13 Amp plug. To change a fuse in this type of plug proceed as follows:

- 1 Remove fuse cover and fuse.
- 2 Fix new fuse which should be a BS1362 3 Amp, A.S.T.A. or BSI approved type.
- 3 Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place.

If the mains plug contains a fuse, this should have a value of 3 Amp. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 3 Amp.

Note: *The severed plug must be disposed of to avoid a possible shock hazard should it be inserted into a 13 Amp socket elsewhere.*

How to connect a plug

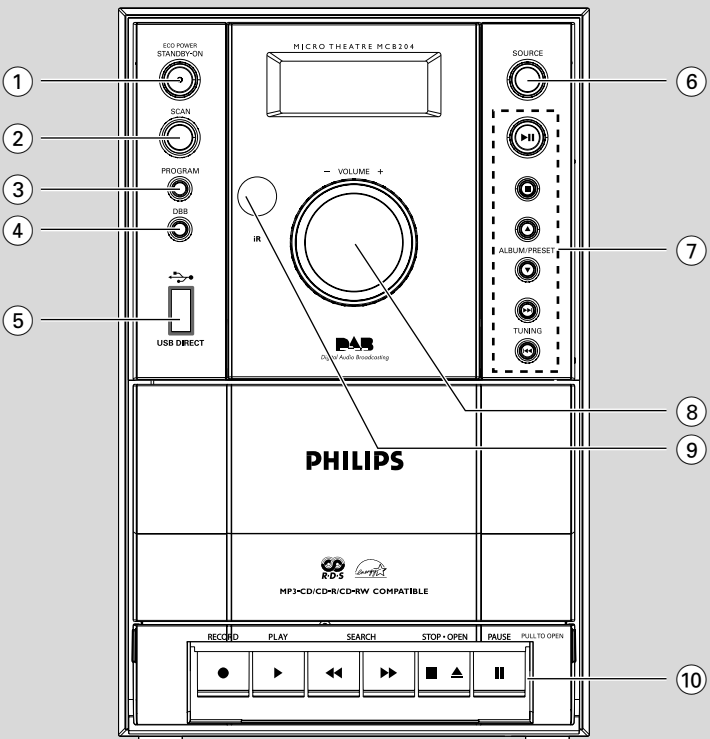
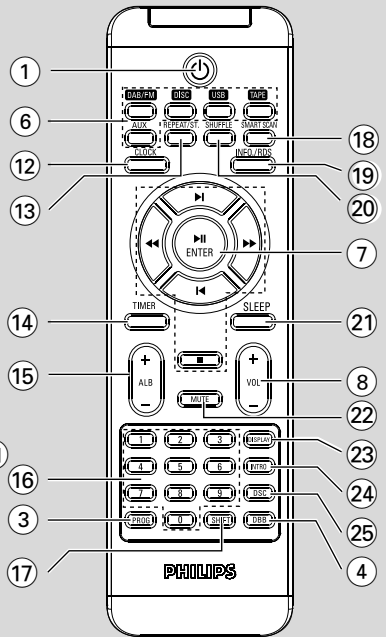
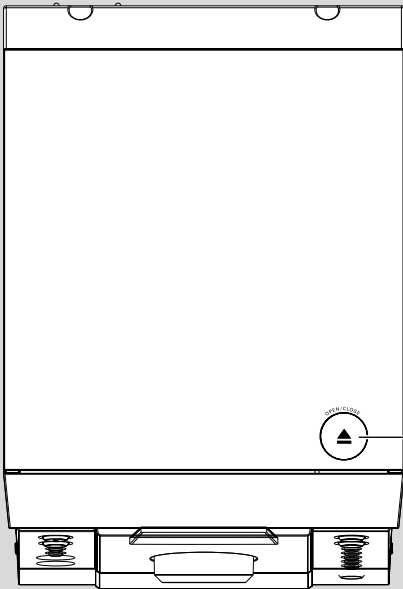
The wires in the mains lead are coloured with the following code: blue = neutral (N), brown = live (L).

- As these colours may not correspond with the colour markings identifying the terminals in your plug, proceed as follows:
 - Connect the blue wire to the terminal marked N or coloured black.
 - Connect the brown wire to the terminal marked L or coloured red.
 - Do not connect either wire to the earth terminal in the plug, marked E (or \perp) or coloured green (or green and yellow).

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead - not simply over the two wires.

Copyright in the U.K.

Recording and playback of material may require consent. See Copyright Act 1956 and The Performer's Protection Acts 1958 to 1972.



Hearing Safety

Listen at a moderate volume.

- Using headphones at a high volume can impair your hearing. This product can produce sounds in decibel ranges that may cause hearing loss for a normal person, even for exposure less than a minute. The higher decibel ranges are offered for those that may have already experienced some hearing loss.
- Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So after prolonged listening, what sounds "normal" can actually be loud and harmful to your hearing. To guard against this, set your volume to a safe level before your hearing adapts and leave it there.

To establish a safe volume level:

- Set your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, without distortion.

Listen for reasonable periods of time:

- Prolonged exposure to sound, even at normally "safe" levels, can also cause hearing loss.
- Be sure to use your equipment reasonably and take appropriate breaks.

Be sure to observe the following guidelines when using your headphones.

- Listen at reasonable volumes for reasonable periods of time.
- Be careful not to adjust the volume as your hearing adapts.
- Do not turn up the volume so high that you can't hear what's around you.
- You should use caution or temporarily discontinue use in potentially hazardous situations.
- Do not use headphones while operating a motorized vehicle, cycling, skateboarding, etc.; it may create a traffic hazard and is illegal in many areas.

General Information

Supplied accessories	6
Environmental information	6
Safety information	6
About Digital Audio Broadcasting (DAB)	7

Preparations

Rear connections	8
Inserting batteries into the remote control... ..	9

Controls

Controls on the system and remote control	10
Controls buttons available on the remote control only	10

Basic Functions

Switching the system on	11
Adjusting volume and sound.....	11

CD/MP3 Operation

Loading a disc	12
Basic playback controls	12
Playing an MP3 disc	12-13
Different play modes: Shuffle and Repeat	13
Programming track numbers	13
Reviewing the programme	13
Erasing the programme	13

DAB Reception

Tuning to DAB for the first time	14
Re-tuning	14
Manual tuning	14
DAB information display	15
Programming DAB stations	15
Tuning to preset DAB stations	15

FM Radio Reception

Tuning to radio stations	16
Programming radio stations	16
Automatic programming	
Manual programming	
Tuning to preset radio stations	16
RDS	17
Setting the RDS clock	17

Tape Operation/Recording

Tape playback	18
General information on recording	18
Synchro start CD recording	18
Recording from the radio	18

External Sources

Using a non-USB device	19
Using a USB mass storage device	19-20

Clock/Timer

Setting the clock	21
Setting the timer	21
Activating and deactivating TIMER	21
Activating and deactivating SLEEP	21

Specifications


Maintenance

Troubleshooting

General Information

This product complies with the radio interference requirements of the European Community.

Supplied accessories

- 2 speaker boxes
- remote control
- 1 certified AC/DC adaptor (Input: 100-240V~50/60Hz 0.8A Max, Output: 13V  1.4A)

Environmental Information

All unnecessary packaging has been omitted. We have tried to make the packaging easy to separate into three materials: cardboard (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet).

Your system consists of materials which can be recycled and reused if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packaging materials, exhausted batteries and old equipment.

Disposal of your old product

Your product is designed and manufactured with high quality materials and components, which can be recycled and reused.



When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC

Please inform yourself about the local separate collection system for electrical and electronic products.

Please act according to your local rules and do not dispose of your old products with your normal household waste. The correct disposal of your old product will help prevent potential negative consequences for the environment and human health.

Safety Information

- Before operating the system, check that the operating voltage indicated on the typeplate (or the voltage indication beside the voltage selector) of your system is identical with the voltage of your local power supply. If not, please consult your dealer.
- Place the system on a flat, hard and stable surface.
- The apparatus shall not be exposed to dripping or splashing.
- Install the unit near the AC outlet and where the AC power plug can be easily reached.
- Place the system in a location with adequate ventilation to prevent internal heat build-up in your system. Allow at least 10 cm (4 inches) clearance from the rear and the top of the unit and 5 cm (2 inches) from each side.
- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc.
- Do not expose the system, batteries or discs to excessive moisture, rain, sand or heat sources caused by heating equipment or direct sunlight.
- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- No objects filled with liquids, such as vases, shall be placed on the apparatus.
- If the system is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens of the disc unit inside the system. Should this occur, the CD player would not operate normally. Leave the power on for about one hour with no disc in the system until normal playback is possible.
- The mechanical parts of the set contain self-lubricating bearings and must not be oiled or lubricated.
- **When the system is switched to Standby mode, it is still consuming some power. To disconnect the system from the power supply completely, remove the AC power plug from the wall socket.**

About Digital Audio Broadcasting (DAB)

DAB digital radio is a new way of broadcasting radio via a network of terrestrial transmitters. It provides listeners with more choice and information delivered in crystal clear, crackle-free sound quality.

- The technology allows the receiver to lock on to the strongest signal it can find.
- With DAB digital stations there are no frequencies to remember; and sets are tuned by station name, so there's no retuning on the move.

What is a multiplex?

Digital radio operation is made up of a single block of frequencies called a multiplex. Each multiplex works within a frequency spectrum, such as Band III for DAB broadcasts.

Note:

- You will receive only those stations within your transmission area.

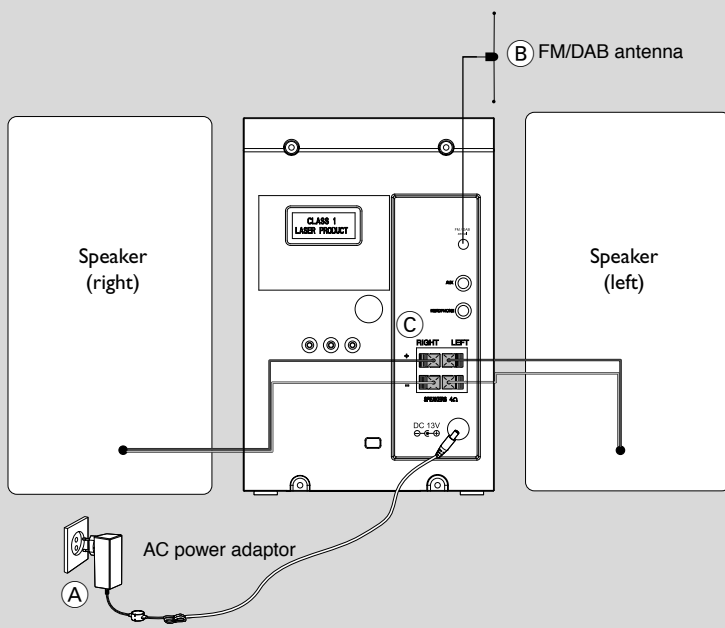
DAB Broadcasters and DLS

Each DAB broadcaster (or multiplex operator) also provides text and audio data services.

Some programmes are supported by Dynamic Label Segments (DLS). This is data which you can read as scrolling text on your DAB radio display. Some stations transmit the latest news, travel, and weather; what's on now and next, website addresses and phone numbers.

For more information on digital radio coverage and services, please visit: www.drdb.org.

Preparations



Rear connections

The type plate is located at the rear of the system.

For users in the U.K.: please follow the instructions on page 2.

(A) Power

Before connecting the AC power adaptor to the wall outlet, ensure that all other connections have been made.

WARNING!

- For optimal performance, use only the original power cable.
- Never make or change any connections with the power switched on.

To avoid overheating of the system, a safety circuit has been built in. Therefore, your system may switch to Standby mode automatically under extreme conditions. If this happens, let the system cool down before reusing it (not available for all versions).

(B) Antenna Connection

FM/DAB Antenna

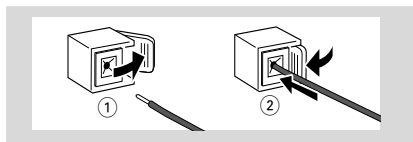
It is unnecessary to connect the FM/DAB-T-shape antenna since it is fixed to the main unit.

- Adjust the FM/DAB antenna for optimal FM/DAB reception.

(C) Speakers Connection

Front Speakers

Connect the speaker wires to the SPEAKERS terminals, right speaker to "RIGHT" and left speaker to "LEFT", coloured (marked) wire to "+" and black (unmarked) wire to "–".



- Fully insert the stripped portion of the speaker wire into the terminal as shown.

Notes:

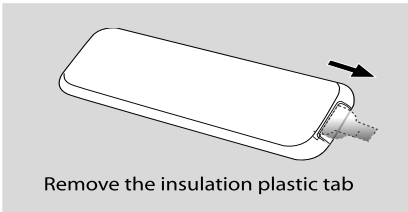
- For optimal sound performance, use the supplied speakers.
- Do not connect more than one speaker to any one pair of + / – speaker terminals.
- Do not connect speakers with an impedance lower than the speakers supplied. Please refer to the SPECIFICATIONS section of this manual.

CAUTION!

- Remove battery if they are exhausted or will not be used for a long time.
- Battery contains chemical substances, so they should be disposed of properly.

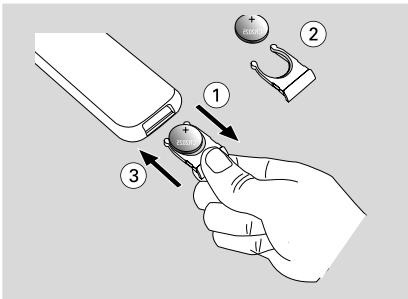
Before using the remote control

- 1 Pull out the plastic protective sheet.
- 2 Select the source you wish to control by pressing one of the source select keys on the remote control (for example CD, TUNER).
- 3 Then select the desired function (for example ►, ◀, ▶).



Replacing battery (lithium CR2025) into the remote control

- 1 Push to open the battery tray.
- 2 Replace a new battery according to the indicated polarity.
- 3 Push the battery tray back to close it.



Controls on the system and remote control

- ① **ECO POWER STANDBY-ON** (⏻)
 - switches the system on or to standby/Eco-power standby.
- ② **SCAN**
 - for DAB (press and hold) to start a full scan process to search for all local DAB stations.
 - (press briefly) to start a quick scan process to search for DAB stations.
- ③ **PROGRAM**
 - for CD/USB programmes tracks.
 - for Tuner programmes radio stations manually or automatically.
 - for DAB..... programmes DAB radio stations manually or automatically.
- ④ **DBB (Dynamic Bass Boost)**
 - enhances the bass.
- ⑤ **USB DIRECT**
 - jack for the external USB mass storage device.
- ⑥ **SOURCE**
 - selects the respective sound source: DAB/FM, DISC, USB, TAPE or AUX.
- ⑦ **Mode Selection**
 - ▶| starts or interrupts CD playback.
 - stops CD playback or erases a CD programme.

ALBUM/PRESET ▼ ▲
for radio selects a preset radio station.
for MP3 disc selects an album.

TUNING ◀◀ ▶▶
for Tuner tunes to radio stations.
for CD/MP3/USB selects a desired track.
..... (press and hold) to search backward and forward.
for clock/timer adjusts the hours and minutes, for the clock/timer function.
- ⑧ **VOLUME (VOL -/+)**
 - adjusts the volume level.
- ⑨ **iR SENSOR**
 - infrared sensor for remote control.
- ⑩ **Tape Deck Operation**
 - RECORD** ● ... starts recording.
 - PLAY** ▶ starts playback.
 - SEARCH** ◀◀ / ▶▶ fast rewinds/winds the tape.
 - STOP•OPEN** ■ ▲
..... stops the tape; opens the tape

compartment.

PAUSE II interrupts recording or playback.

- ⑪ **OPEN/CLOSE** ▲
 - opens/closes the CD door.

AUX jack (located on the back panel)

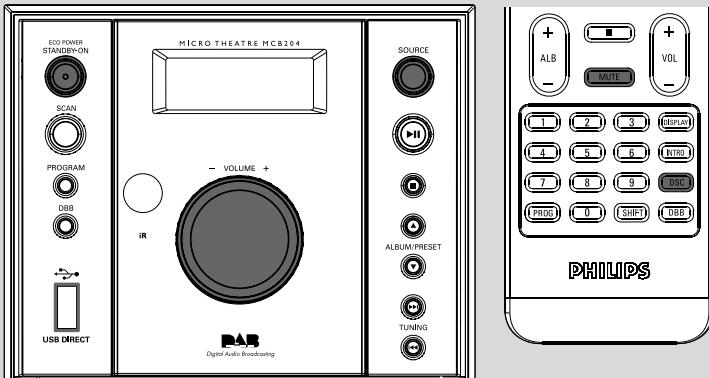
- connects an external source (3.5 mm socket)

Headphone (located on the back panel)


- connects headphones

Controls available on the remote control only


- ⑫ **CLOCK**
 - sets the clock function.
- ⑬ **REPEAT/ST.**
 - for CD/MP3/USB.....repeats a track/disc/all programmed tracks.
 - for FM sets stereo or mono sound mode.
- ⑭ **TIMER**
 - sets the timer function.
- ⑮ **ALB+/-**
 - for MP3/USBselects an album.
- ⑯ **Numeric Keypad (0-9)**
 - for CD/MP3/USB..... selects a track directly.
 - for TUNER..... selects a preset radio station directly.
- ⑰ **SHIFT**
 - inputs a number larger than 10 (used together with the Numerical Keypad).
- ⑱ **SMART SCAN**
 - autoscans for DAB frequencies.
- ⑲ **INFO/RDS**
 - for FM..... displays RDS information.
 - for DAB..... displays INFO messages.
- ⑳ **SHUFFLE**
 - plays disc tracks in random order.
- ㉑ **SLEEP**
 - activates/deactivates or selects the sleeper time.
- ㉒ **MUTE**
 - interrupts and resumes sound reproduction
- ㉓ **DISPLAY**
 - for CD/MP3-CD..... displays disk information during playback.
- ㉔ **INTRO**
 - for CD/MP3/USB..... starts scanning of all tracks in a disc.
- ㉕ **DSC (Digital Sound Control)**
 - selects the desired sound effect: FLAT, CLASSIC, JAZZ, POP or ROCK.




Switching the system on

- Press **ECO POWER STANDBY-ON** or **SOURCE** (or  on the remote control).
→ The system will switch to the last selected source.
- Press **DAB/FM, DISC, USB, TAPE** or **AUX** on the remote control.
→ The system will switch to the selected source.

To switch the system to standby mode

- Press **ECO POWER STANDBY-ON** on the system (or  on the remote control).
→ The volume level, interactive sound settings, last selected source and tuner presets will be retained in the player's memory.


To switch the system to Eco-power standby mode

- Press and hold **ECO POWER STANDBY-ON** ( on the remote control) for more than 2 seconds.
→ The display will go blank.

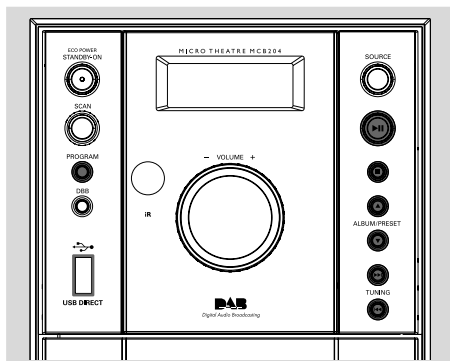
Power-saving automatic standby

The power-saving feature automatically switches to standby 15 minutes after a CD playback has ended and no control is operated.

Adjusting volume and sound

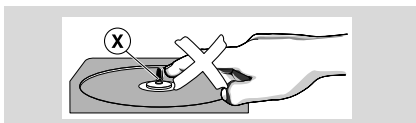
- 1 Turn the **VOLUME** control anti-clockwise to decrease or clockwise to increase volume on the system (or press **VOL -/+** on the remote control).
→ The display shows the volume level  and a number from 0-31. "MIN" denotes the minimum volume level and "MAX" denotes the maximum volume level.
 - 2 Press **DSC** on the remote control repeatedly to select the desired sound effect: **FLAT, CLASSIC, JAZZ, POP** or **ROCK**.
 - 3 Press **DBB** to switch bass enhancement on or off.
→ The display shows **DBB** if the DBB is activated.
 - 4 Press **MUTE** on the remote control to interrupt sound reproduction instantly.
→ Playback will continue without sound.
- To activate sound reproduction you can:
 - press **MUTE** again;
 - adjust the volume controls.

CD/MP3 Operation



IMPORTANT:

The lens of the CD player should never be touched.

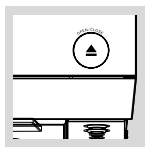


Loading a disc

This CD player plays Audio Discs including CD-Recordables, CD-Rewritables and MP3 CD.

- CD-ROM, CD-I, CDV, VCD, DVD or computer CDs, however, are not possible.

- 1 Select **CD** source.
- 2 Press **OPEN/CLOSE** ▲ on the top of the system to open the CD compartment.
→ **OPEN** is displayed when you open the CD compartment.



- 3 Insert a disc with the printed side facing up and press down on **OPEN/CLOSE** ▲ to close the CD door.
→ **READING** is displayed as the CD player scans the contents of a disc, and then the total number of tracks and playing time (or the total number of albums and tracks for MP3 disc) are shown.

Basic playback controls

To play a disc

- Press **▶||** to start playback.
→ The current track number and elapsed playing time of the track are displayed during disc playback.

To select a different track

- Press **TUNING** ◀◀ ▶▶ (or ◀/▶ on the remote control) once or repeatedly until the desired track number appears in the display.

To find a passage within a track

- 1 Press and hold down on **TUNING** ◀◀ ▶▶ (or ◀◀/▶▶ on the remote control).
→ The disc is played at high speed and low volume.
- 2 When you recognise the passage you want, release **TUNING** ◀◀ ▶▶ (or ◀◀/▶▶ on the remote control).
→ Normal playback continues.

To interrupt playback

- Press **▶||** during playback.
→ The display freezes and the elapsed playing time flashes when playback is interrupted.
→ To resume, press **▶||** again.

To stop playback

- Press ■.

Notes: CD play will also stop when;

- the CD door is opened.
- the disc has reached the end.
- you select another source: **TAPE** or **TUNER**.
- you select standby.

Playing an MP3 disc

- 1 Load an MP3 disc.
→ The disc reading time may exceed 10 seconds due to the large number of songs compiled into one disc.
→ "Rxx Txx" is displayed. Rxx is the total album number and Txx is the total track number.
- 2 Press **ALBUM/PRESET** ▼ ▲ (or **ALB +/-** on the remote control) to select a desired album.

- 3 Press **TUNING** ◀◀ ▶▶ (◀/▶) on the remote control) to select a desired track.
→ The album number will change accordingly as you reach the first track of an album by pressing ▶ or the last track of an album by pressing ◀.
- 4 Press ▶▶ to start playback.
- During playback, press **DISPLAY** on the remote control to select two display modes: ID3 ON and ID3 OFF
ID3 ON → The name of the current album and title will be scrolled through the display once followed by the current album number, track number and the elapsed playback time.
ID3 OFF → The current album number, track number, and elapsed playback time are displayed.

Supported MP3 disc formats:

- ISO9660, Joliet, UDF 1.5
- Maximum title number: 256 (depending on filename length)
- Maximum album number: 99
- Supported sampling frequencies: 32 kHz, 44.1 kHz, 48 kHz
- Supported Bit-rates: 32-256 (kbps), variable bitrates

Different play modes: SHUFFLE and REPEAT

You can select and change the various play modes before or during playback. The play modes can also be combined with PROGRAMME.

SHUF tracks of the entire disc are played in random order

REP ALL repeats the entire disc/ programme

REP plays the current track continuously

- 1 To select your play mode, press the **SHUFFLE** or **REPEAT** button before or during playback until the display shows the desired function.
- 2 Press ▶▶ to start playback if in the STOP position.
→ If you have selected SHUFFLE, playback starts automatically.
- 3 To return to normal playback, press the respective **SHUFFLE** or **REPEAT** button until the various SHUFFLE/ REPEAT modes are no longer displayed.

- You can also press ■ to cancel your play mode.

Note:

– The **SHUFFLE** and **REPEAT** functions cannot be used simultaneously.

Programming track numbers

Programming tracks is possible when playback is stopped. Up to 32 tracks can be stored in the memory in any order:

- 1 Press **PROGRAM** to enter the programming mode.
→ **PROG** is shown.
- 2 Press **TUNING** ◀◀ ▶▶ (◀/▶) repeatedly to select your desired track number.
- For MP3 disc, press **ALBUM/PRESET** ▼/▲ (**ALB +/-**) and **TUNING** ◀◀ ▶▶ (◀/▶) to select the desired album and track for programming.
- 3 Press **PROGRAM** to confirm the track number to be stored.
- 4 Repeat steps 2-3 to select and store all desired tracks.
- 5 To start playback of your disc programme, press ▶▶.

Reviewing the programme

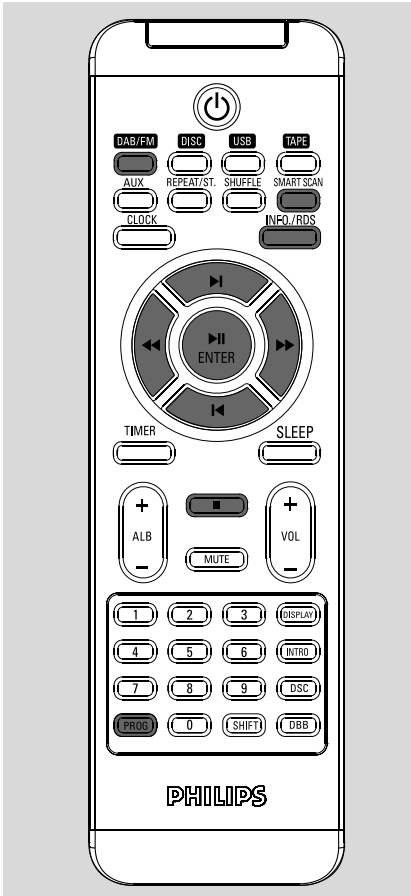
- In stop mode, press and hold **Program** until the display shows all your stored track numbers in sequence.
- To exit review mode, press ■.

Erasing the programme

You can erase the programme by:

- pressing ■ once in the STOP mode;
- pressing ■ twice during playback;
- opening the CD compartment;
→ **PROG** disappears from the display.

DAB Reception



Tuning to DAB for the first time

- Press **SOURCE** on the system to select DAB (or press **DAB/FM** on the remote control).
 - The system will start full scan to search for all available Band III channels automatically.
 - If no DAB service is available, "NO SERVICE" will appear on the display panel.
 - If there are available DAB services, the system will store all detected stations.

Re-tuning

By re-tuning, you can update your DAB multiplex (ensemble) list all over again. At the completion of scanning, the system will tune to the first service of the first multiplex (ensemble) in the updated multiplex (ensemble) list.

During scanning, the system will initially display the following the following, where "CH" is the DAB channel and "N" is the number of the current multiplex (ensemble).

CH	N
-----------	----------

- Press and hold **SMART/SCAN** for more than 2 seconds.
 - The display panel shows "F SCAN" and the system will start full scan to search for all available Band III channels again automatically.
- Press **SMART/SCAN** briefly.
 - The display panel shows "Q SCAN" and the system will start a quick scan process to search for Band III channels again automatically.
- If you press **■** during scanning, the scanning process will stop and the system will return to the DAB frequency before scanning starts.
 - The other DAB operation buttons will be locked.

Note:

– If no DAB service is detected during the above processes, the display panel will show "NO SERVICE".

Manual tuning

- Press and hold **ENTER/▶ II** for more than 2 seconds to start manual tuning.
 - The current DAB channel and frequency will be displayed.
- Press **◀◀▶▶** on the front panel or press **◀◀ / ▶▶** on the remote control to select your desired DAB channels.
- Press **ENTER/▶ II** to confirm and tune to your selected channel.

DAB information display

You can view the DAB service information in the following 6 information modes. Depending on the DAB radio station you are tuning to, some information modes may be unavailable.

- Press **INFO./RDS** repeatedly to view the following information.
 - DLS
 - ERR
 - NEWS/SPORT/STA
 - bps
 - time
 - station (12B 225.64 MHz)

Programming DAB stations

You can save up to 20 DAB stations in the system memory.

- 1 Press **PROGRAM** on the front panel or press **PROG** on the remote control.
→ The display shows "PN", where N stands for the preset number.
- 2 Press **◀◀/▶▶** on the front panel or press **◀/▶** on the remote control 0 to select your desired preset number.
- 3 Press **PROGRAM** on the front panel or press **PROG** on the remote control to confirm the selected station to be stored.
→ The display shows "PN SERVICE" briefly, indicating the preset is saved.
- 4 Repeat steps 2-3 to select and store all desired stations.

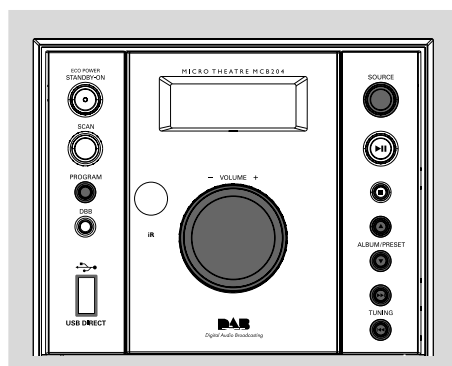
Note:

- If no service is associated with the number you input, the display will show "PN EMP" briefly, where "N" stands for the input preset number.

Tuning to preset DAB stations

- Press **◀◀/▶▶** on the front panel or press **◀/▶** on the remote control repeatedly until the desired preset station is displayed.

FM Radio Reception



Tuning to radio stations

- 1 Press **SOURCE** on the set repeatedly or press **DAB/FM** on the remote repeatedly to select **TUNER** source.
- 2 Press down on **TUNING** ◀◀ ▶▶ (or ◀▶/▶▶ on the remote control) and release the button.
→ The display will show "SEARCH" until a radio station with sufficient signal strength is found.
- 3 Repeat step 2 if necessary until you find the desired station.
- To tune to a weak station, press **TUNING** ◀◀ ▶▶ (or ◀▶/▶▶ on the remote control) briefly and repeatedly until you have found optimal reception.

Programming radio stations

You can store up to 20 radio stations in the memory.

Automatic programming

Automatic programming will start with a chosen preset number. From this preset number upwards, former programmed radio stations will be overridden. The system will only programme stations which are not in the memory already.

- 1 Press **ALBUM/PRESET** ▼ ▲ (or ◀/▶ on the remote control) to select the preset number where programming should start.

Note:

– If no preset number is selected, default is preset (1) and all your presets will be overridden.

- 2 Press **PROGRAM** for more than 2 seconds to activate programming.

→ **AUTO** is displayed and available stations are programmed. The first preset automatically stored will then be played.

Manual programming

- 1 Tune to your desired station (see Tuning to radio stations).
- 2 Press **PROGRAM** to activate programming.
→ The next available preset number flashes for selection.
- 3 Press **ALBUM/PRESET** ▼ ▲ (or ◀/▶ on the remote control) to allocate a number from 1 to 20 to this station.
- 4 Press **PROGRAM** again to confirm the setting.
→ The preset number and frequency of the preset station are shown.
- 5 Repeat the above four steps to store other stations.
- You can override a preset station by storing another frequency in its place.

Tuning to preset radio stations

- Press **ALBUM/PRESET** ▼ ▲ (or ◀/▶ on the remote control) until the desired preset station is displayed.

RDS

Radio Data System is a service that allows FM stations to show additional information. If you are receiving an RDS station, **R-D-S** and the station name are displayed.

When automatic programming is used, RDS stations will be programmed first.

Scrolling through different RDS information

- Press **INFO./RDS** briefly and repeatedly to scroll through the following information (if available):
 - Station name
 - Programme type such as *POP...*
 - No CT, within 30 seconds, real time will be displayed
 - Radio text message
 - Frequency

Setting the RDS clock

Some RDS radio station may be transmitting a real clock time at an interval of every minute. It is possible to set the clock by using a time signal which is broadcast together with the RDS signal.

- 1 Tune to an RDS station.
- 2 The system will read the RDS time and set the clock automatically.

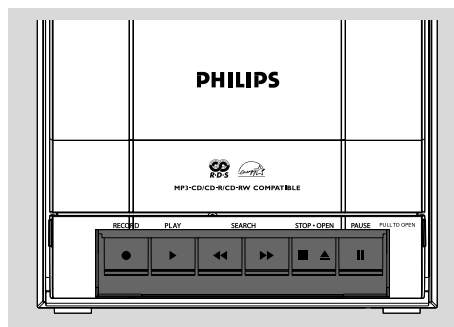
Note:

– *Some RDS radio station may be transmitting a real time clock at a minute interval. The accuracy of the transmitted time depends on the transmitting RDS radio station.*

RDS Programme types

NO TYPE	.....	No RDS programme type
NEWS	.....	News services
AFFAIRS	.....	Politics and current affairs
INFO	.....	Special information programmes
SPORT	.....	Sports
EDUCATE	.....	Education and advanced training
DRAMA	.....	Radio plays and literature
CULTURE	.....	Culture, religion and society
SCIENCE	.....	Science
VARIED	.....	Entertainment programmes
POP M	.....	Pop music
ROCK M	.....	Rock music
MOR M	.....	Light music
LIGHT M	.....	Light classical music
CLASSICS	.....	Classical music
OTHER M	.....	Special music programmes
WEATHER	.....	Weather
FINANCE	.....	Finance
CHILDREN	.....	Children's programmes
SOCIAL	.....	Social Affairs
RELIGION	.....	Religion
PHONE IN	.....	Phone In
TRAVEL	.....	Travel
LEISURE	.....	Leisure
JAZZ	.....	Jazz Music
COUNTRY	.....	Country Music
NATION M	.....	National Music
OLDIES	.....	Oldies Music
FOLK M	.....	Folk Music
DOCUMENT	.....	Documentary
TEST	.....	Alarm Test
ALARM	.....	Alarm

Tape Operation/Recording



Tape playback

- 1 Select **TAPE** source.
→ Display: shows "TAPE" throughout tape operation.
- 2 Open the tape key flap marked "**PULL TO OPEN**" on the front panel.
- 3 Press **STOP-OPEN ■▲** to open the tape door.
- 4 Insert a recorded tape and close the tape door.
- Load the tape with the open side downward and the full spool to the left.
- 5 Press **PLAY ▶** to start playback.
- The key is automatically released at the end of a tape, except if **PAUSE II** has been activated.
- 6 To pause, press **PAUSE II**. Press again to resume.
- 7 By pressing **◀◀** or **▶▶** on the system fast winding of tape is possible in both directions.
- 8 To stop the tape, press **STOP-OPEN ■▲**.

General information on recording

- Recording is permissible insofar as copyright or other rights of third parties are not infringed.
- For recording, use only NORMAL (IEC type I) tapes on which the tabs have not yet been broken. This deck is not suited for recording on METAL (IEC IV) type tapes.
- The best recording level is set automatically. Altering the VOLUME, DBB or DSC controls will not affect the recording in progress.
- The recording sound quality might differ depending on the quality of your recording source and the recording tape.
- At the very beginning and end of the tape, no recording will take place during the 7 seconds when the leader tape passes the recorder heads.

- To protect a tape from accidental erasure, have the tape in front of you and break out the left tab. Recording on this side is no longer possible. If, however, you wish to record over this side again, cover the tabs with a piece of adhesive tape.

Synchro start CD recording

- 1 Select **CD** source.
- 2 Insert a disc and if desired, programme track numbers.
- 3 Press **STOP-OPEN ■▲** to open the tape door.
- 4 Insert a suitable tape into the deck and close the tape door.
- 5 Press **RECORD ●** to start recording.
→ Playing of the CD programme starts automatically from the beginning of the CD. It is not necessary to start the CD player separately.

To select and record a particular passage within a CD track:

- Press and hold down on **TUNING I◀◀ ▶▶I**. Release the control when you recognize the passage you want.
- To pause CD playback, press **▶II**.
- Recording starts from this exact point in the track when you press **RECORD ●**.
- 6 To pause, press **PAUSE II**. Press again to resume.
- 7 To stop recording, press **STOP-OPEN ■▲**.

Recording from the radio

- 1 Tune to the desired radio station (see Tuning to radio stations).
- 2 Press **STOP-OPEN ■▲** to open the tape door.
- 3 Insert a suitable tape into the deck and close the tape door.
- 4 Press **RECORD ●** to start recording.
- 5 To interrupt playback press **PAUSE II**. To resume, press this key again.
- 6 To stop recording, press **STOP-OPEN ■▲**.

Using a non-USB device

- 1 Connect the audio out terminals of the external equipment (TV,VCR, Laser Disc player, DVD player or CD Recorder) to the AUX terminals of your system.
- 2 Press **SOURCE** repeatedly (or **AUX** on the remote control) to select external equipment.

Note:

- All the sound control features (DSC or DBB, for example) are available for selection.
- Refer to the operating instructions for the connected equipment for details.

Using a USB mass storage device

By connecting a USB mass storage device to the system, you can enjoy the device's stored music through your system's speakers.

Compatible USB mass storage devices

With the MCB204, you can use

- USB flash memory (USB 2.0 or USB 1.1)
- USB flash player (USB 2.0 or USB 1.1)
- USB device which requires driver installation under Windows XP is not supported.

Note:

In some USB flash players (or memory devices), the stored contents are recorded using copyright protection technology. Such protected contents will be unplayable on any other devices (such as MCB204 device).

Supported formats:

- USB or memory file format FAT12, FAT16, FAT32 (sector size: 512 - 4096 bytes)
- MP3 bit rate (data rate): 32-320 kbps and variable bit rate
- WMA v9 or earlier
- Directory nesting up to a maximum of 8 levels
- Number of albums: maximum 99
- Number of tracks: maximum 999
- ID3 tag v2.0 or later
- File name in Unicode UTF8 (maximum length: 128 bytes)

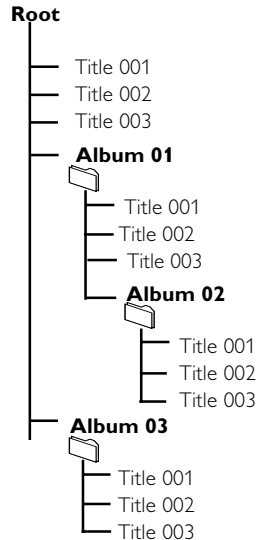
The system will not play or support the following:

- Empty albums: an empty album is an album that does not contain MP3/WMA files, and will not be shown in the display.
- Non-supported file formats are skipped. This means that e.g.: Word documents .doc or MP3 files with extension. dlf are ignored and will not be played.
- AAC, WAV, PCM, NTFS audio files
- DRM protected WMA files
- WMA files in Lossless format

How to organize your MP3/WMA files on the USB mass storage device

This Hi-Fi system will browse the MP3/WMA files in the folders/sub-folders/titles order.

Example:




Organize your MP3/WMA files in different folders or subfolders as required.

Notes:

- If you have not organized MP3/WMA files into any albums on your disc, an album "01" will be automatically assigned for all those files.
- Make sure that the file names of MP3 files end with .mp3. and the file names of WMA files end with .wma.

- For DRM protected WMA files, use Windows Media Player 10 (or later) for conversion. Visit www.microsoft.com for details about Windows Media Player and WM DRM (Windows Media Digital Rights Management).

Playing a USB mass storage device

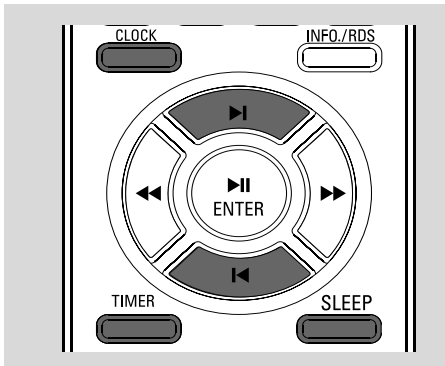
- 1 Make sure that your MCB204 is being powered on.
- 2 Press **SOURCE** repeatedly (or **USB** on the remote) to enter USB mode.
- 3 Plug a compatible USB mass storage device to MCB204's USB port marked . If needed, use a suitable USB cable to connect between the device and MCB204's USB port.
 - The device will automatically power on.
- If the device is not powered on, turn on the power manually, then re-connect it.
 - MCB204's display shows USB and the total number of playable audio files (Max. displayed track number is 999) stored on the device.
- 4 Press **▶||** on your MCB204 to start play.
 - Press **ALBUM/PRESET ▼/▲ (ALB +/-)** and **TUNING ◀◀ ▶▶** (or **◀/▶**) to select the desired album and track.
 - MCB204's display shows USB and the display information as described in CD/MP3 Operation.

Helpful hints:

- Up to 999 playable audio files stored on a USB mass storage device can be played on MCB204.
- Up to 99 playable albums stored on a USB mass storage device can be selected and displayed on MCB204.
- Make sure that file names of MP3 files end with .mp3, and the file names of WMA files end with .wma.
- For DRM protected WMA files, use Windows Media Player 10 (or later) for conversion. Visit www.microsoft.com for details about Windows Media Player and WM DRM (Windows Media Digital Rights Management).
- For USB device playing, if the display shows "OL", it means that the USB device is electrically overloading MCB204. You need to change a USB device.

INFORMATION REGARDING USB DIRECT:

1. *Compatibility of the USB connection on this micro system:*
 - a) This micro system supports most USB Mass storage devices (MSD) that these devices are compliant to the USB MSD standards.
 - i) Most common Mass storage class devices are flash drives, memory sticks, jump drives and etc.
 - ii) If you see a "Disc Drive" showing up on your computer after you have plugged the mass storage device into your computer, most likely it is MSD compliant and it will work with this micro system.
 - b) If your Mass storage device requires a battery/power source, please make sure you have a fresh battery in it or charge the USB device first and then plug it into the micro system again.
2. *Supported Music type:*
 - a) This device only supports unprotected music with file extension: .mp3 .wma
 - b) Music bought from on-line music stores are not supported because they are secured by Digital Rights Management protection (DRM).
 - c) File name extensions that ended with the following are not supported: .wav; .m4a; .m4p; .mp4; .aac and etc.
3. *No Direct connection can be made from a Computer USB port to the micro system even you have either or both mp3 or wma file in your computer.*



Setting the clock

- 1 In standby or active mode, press **CLOCK** on the remote control.
→ The clock digits for the hours flash.
- 2 Press **TUNING** ◀◀ ▶▶ (or ◀/▶) on the remote control) to set the hours.
- 3 Press **CLOCK** again.
→ The clock digits for the minutes flash.
- 4 Press **TUNING** ◀◀ ▶▶ (or ◀/▶) on the remote control) to set the minutes.
- 5 Press **CLOCK** to confirm the time.

Setting the timer

The system can be used as an alarm clock, whereby the CD, USB, TUNER, or DAB is switched on at a set time. The clock time needs to be set first before the timer can be used.

- 1 In standby or active mode, press and hold **TIMER** on the remote control.
→ "ON" appears and the hour digits for the start timer starts flashing.
- 2 Press **TUNING** ◀◀ ▶▶ (or ◀/▶) on the remote control) to set the hours.
- 3 Press **TIMER** again.
→ The clock digits for the minutes flash.
- 4 Press **TUNING** ◀◀ ▶▶ (or ◀/▶) to set the minutes.
- 5 Press **TIMER** again.
→ "OFF" appears and the hour digits for the end timer starts flashing.
- 6 Press **TUNING** ◀◀ ▶▶ (or ◀/▶) to set the hours.
- 7 Press **TIMER** again.

→ The clock digits for the minutes flash.

- 8 Press **TUNING** ◀◀ ▶▶ (or ◀/▶) to set the minutes.
- 9 Press **TIMER** again and then press **TUNING** ◀◀ ▶▶ (or ◀/▶) to select the desired sound source: CD, USB, TUNER, or DAB.
- 10 Press **TIMER** again.
→ For CD, USB or DAB mode, "VOLUME x x" appears.
→ For Tuner mode, "P x x" appears, where P stands for the preset number: Press **TUNING** ◀◀ ▶▶ (or ◀/▶) to select the desired radio station. Then press **TIMER** again, "VOLUME x x" appears.
- 11 Press **TUNING** ◀◀ ▶▶ (or ◀/▶) to set the volume level.
- 12 Press **TIMER** again to confirm the time.
→ The timer is now set and activated.

Notes:

– If no volume level or preset number is selected, default is preset to 12 and 01 respectively.




Activating and deactivating TIMER

In standby or during playback, press **TIMER** once.

→ Display shows  if activated, and disappears if deactivated.

Activating and deactivating SLEEP

The sleep timer enables the system to switch off by itself after a set period of time.

- Press **SLEEP** on the remote control once or more.
→ Display shows  and one of the sleep time options in sequence: SLEEP OFF, 120, 90, 60, 45, 30, 15, 05, SLEEP OFF ...
- To deactivate, press **SLEEP** on the remote control once or more until "SLEEP OFF" is shown, or press **ECO POWER STANDBY-ON** on the system (or  on the remote control).
→  disappears from the display.

Specifications

AMPLIFIER

Output power 2 x 4W RMS
Signal-to-noise ratio ≥ 60 dBA (IEC)
Frequency response 125 – 16000 Hz
Impedance loudspeakers 4Ω

CD PLAYER

Frequency range 125 – 16000 Hz
Signal-to-noise ratio 65 dBA

TUNER

FM wave range 87.5 – 108 MHz
Sensitivity at 75 Ω
– FM 26 dB sensitivity 20 μ V
Total harmonic distortion $\leq 5\%$

TAPE DECK

Frequency response
Normal tape (type I) 125 – 8000 Hz (8 dB)
Signal-to-noise ratio
Normal tape (type I) 40 dBA
Wow and flutter $\leq 0.4\%$ JIS

SPEAKERS

Bass reflex system
Dimensions (w x h x d) . 146 x 228 x 160 (mm)

GENERAL INFORMATION

AC Power 220 – 230 V / 50 Hz
Dimensions (w x h x d) ... 146 x 228 x 216 (mm)
Weight (with/without speakers)
..... approx. 4.4 / 2.0 kg
Power consumption
Active 30 W
Standby < 5 W
Eco Power Standby < 1 W

Specifications and external appearance are subject to change without notice.

Maintenance

Cleaning the Cabinet

- Use a soft cloth slightly moistened with a mild detergent solution. Do not use a solution containing alcohol, spirits, ammonia or abrasives.

Cleaning Discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the centre out.
- Do not use solvents such as benzene, thinner, commercially available cleaners, or antistatic spray intended for analogue records.

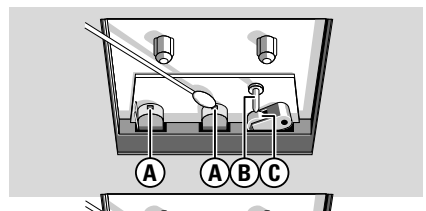


Cleaning the disc lens

- After prolonged use, dirt or dust may accumulate at the disc lens. To ensure good playback quality, clean the disc lens with Philips CD Lens Cleaner or any commercially available cleaner. Follow the instructions supplied with cleaner.

Cleaning the Heads and the Tape Paths

- To ensure good recording and playback quality, clean the heads (A), the capstan(s) (B), and pressure roller(s) (C) after every 50 hours of tape operation.
- Use a cotton swab slightly moistened with cleaning fluid or alcohol.
- You can also clean the heads by playing a cleaning tape once.



Demagnetising the heads

- Use a demagnetising tape available at your dealer.

WARNING

Under no circumstances should you try to repair the system yourself, as this will invalidate the warranty. Do not open the system as there is a risk of electric shock.

If a fault occurs, first check the points listed below before taking the system for repair. If you are unable to remedy a problem by following these hints, consult your dealer or Philips for help.

Problem	Solution
"NO DISC" is displayed.	<ul style="list-style-type: none"> ✓ Insert a disc. ✓ Check if the disc is inserted upside down. ✓ Wait until the moisture condensation at the lens has cleared. ✓ Replace or clean the disc, see "Maintenance". ✓ Use a finalized CD-RW or a correct MP3-CD format disc.
Radio reception is poor.	<ul style="list-style-type: none"> ✓ If the signal is too weak, adjust the antenna or connect an external antenna for better reception. ✓ Increase the distance between the Mini HiFi System and your TV or VCR.
Recording or playback cannot be made.	<ul style="list-style-type: none"> ✓ Clean deck parts, see "Maintenance". ✓ Use only NORMAL (IEC I) tape. ✓ Apply a piece of adhesive tape over the missing tab space.
The tape deck door cannot open.	<ul style="list-style-type: none"> ✓ Remove and reconnect the AC power plug and switch on the system again.
The system does not react when buttons are pressed.	<ul style="list-style-type: none"> ✓ Remove and reconnect the AC power plug and switch on the system again.
Sound cannot be heard or is of poor quality.	<ul style="list-style-type: none"> ✓ Adjust the volume. ✓ Disconnect the headphones. ✓ Check that the speakers are connected correctly. ✓ Check if the stripped speaker wire is clamped. ✓ Make sure the MP3-CD was recorded within 32-256 kbps bit rate with sampling frequencies at 48 kHz, 44.1 kHz or 32 kHz.
The left and right sound outputs are reversed.	<ul style="list-style-type: none"> ✓ Check the speaker connections and location.
The remote control does not function properly.	<ul style="list-style-type: none"> ✓ Select the source (CD or TUNER, for example) before pressing the function button (▶, ◀, ▶). ✓ Reduce the distance between the remote control and the system. ✓ Insert the batteries with their polarities (+/- signs) aligned as indicated. ✓ Replace the batteries. ✓ Point the remote control directly towards the IR sensor.

Troubleshooting

The time is not working.

- ✓ Set the clock correctly.
- ✓ Press TIMER to switch on the timer.
- ✓ If recording or tape dubbing is in progress, stop recording.

The Clock/Timer setting is erased.

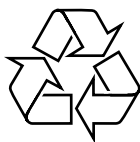
- ✓ Power has been interrupted or the power cord has been disconnected. Reset the clock/timer.

The USB device doesn't play on my MCB204

- ✓ It is not set in the USB mode. Press USB to select USB mode.
- ✓ The device is not securely connected to MCB204's USB port. Re-connect the device, and make sure that the device is powered on.
- ✓ The device is not supported by MCB204, or the audio file format stored on the device is not supported by MCB204. Use a compatible device/ playable audio file format.

Meet Philips at the Internet
<http://www.philips.com>

English



MCB204



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