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MC147



# User manual

**PHILIPS**

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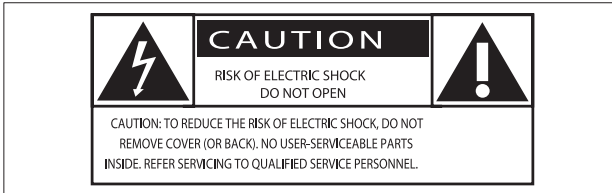
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# 1 Important

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## Safety

Know these safety symbols



This 'bolt of lightning' indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

The 'exclamation mark' calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

**WARNING:** To reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.

**CAUTION:** To prevent electric shock, fully insert the plug. (For regions with polarized plugs: To prevent electric shock, match wide blade to wide slot.)

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## Important Safety Instructions

- ① Read these instructions.
- ② Keep these instructions.
- ③ Heed all warnings.
- ④ Follow all instructions.
- ⑤ Do not use this apparatus near water.
- ⑥ Clean only with dry cloth.

- ⑦ Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- ⑧ Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- ⑨ Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- ⑩ Only use attachments/accessories specified by the manufacturer.
- ⑪ Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- ⑫ Unplug this apparatus during lightning storms or when unused for long periods of time.
- ⑬ Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- ⑭ **Battery usage CAUTION** – To prevent battery leakage which may result in bodily injury, property damage, or damage to the unit:
  - Install all batteries correctly, + and - as marked on the unit.

- Do not mix batteries (old and new or carbon and alkaline, etc.).
- Remove batteries when the unit is not used for a long time.
- Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

- ⑮ **Apparatus shall not be exposed to dripping or splashing.**
- ⑯ **Do not place any sources of danger on the apparatus (e.g. liquid filled objects, lighted candles).**
- ⑰ **Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.**



### Warning

- Never remove the casing of this apparatus.
- Never lubricate any part of this apparatus.
- Never place this apparatus on other electrical equipment.
- Keep this apparatus away from direct sunlight, naked flames or heat.
- Never look into the laser beam inside the apparatus.
- Ensure that you always have easy access to the power cord, plug or adaptor to disconnect the apparatus from the power.



### Caution

- Use of controls or adjustments or performance of procedures other than herein may result in hazardous radiation exposure or other unsafe operation.

## Important notes for users in the U.K.

### Mains fuse

This product is fitted with an approved non-molded plug. If you replace the fuse, use one with:

- the ratings shown on the plug,
- a BS 1362 approval, and
- the ASTA approval mark.

Contact your dealer if you are not sure about what type of fuse to use.

Caution: To conform with the EMC directive (2004/108/EC), do not detach the plug from the power cord.

### How to connect a plug

The wires in the power cord are colored as follows: blue = neutral (N), brown = live (L). If the colors do not correspond with the colors on your plug, identify the terminals in your plug as follows:

- 1 Connect the blue wire to the terminal marked N or colored black.
- 2 Connect the brown wire to the terminal marked L or colored red.
- 3 Do not connect either wire to the earth terminal in the plug, marked E (or e) or colored green (or green and yellow).

Before you replace the plug cover, make sure that the cord grip is clamped over the sheath of the cable and not just over the two wires in the cable.

### Copyrights in the U.K.

Recording and playback of material might 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.

---

## Notice

Any changes or modifications made to this device that are not expressly approved by Philips Consumer Lifestyle may void the user's authority to operate the equipment.



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



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 that 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. Correct disposal of your old product helps to prevent potential negative consequences for the environment and human health.



Your product contains batteries covered by the European Directive 2006/66/EC, which cannot be disposed with normal household waste. Please inform yourself about the local rules on separate collection of batteries because correct disposal helps to prevent negative consequences for the environmental and human health.

### 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.



Be responsible  
Respect copyrights

The making of unauthorized copies of copy-protected material, including computer programs, files, broadcasts and sound recordings, may be an infringement of copyrights and constitute a criminal offence. This equipment should not be used for such purposes.

This apparatus includes this label:



Note

- The type plate is located at the rear of the apparatus.

## 2 Your Micro Hi-Fi System

Congratulations on your purchase, and welcome to Philips! To fully benefit from the support that Philips offers, register your product at [www.philips.com/welcome](http://www.philips.com/welcome).

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### Introduction

With this unit, you can:

- play CDs
- listen to radio, tape, or external audio devices

The unit supports the following media format:



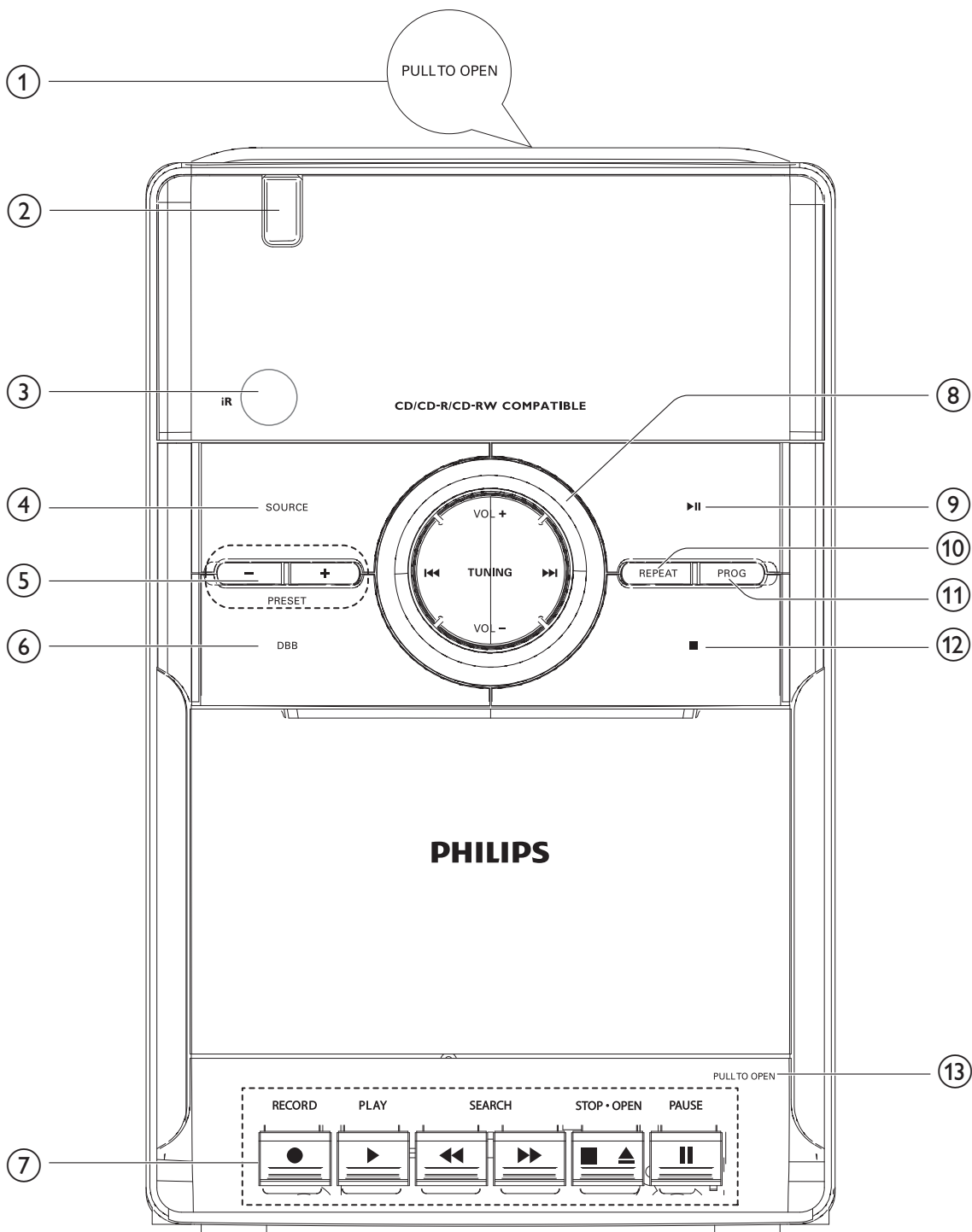
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### What's in the box

Check and identify the contents of your package:

- Main unit
- Loudspeaker boxes x 2
- Remote control
- User manual
- Quick start guide

## Overview of the main unit



**① PULL TO OPEN**

- Open or close the disc compartment.

**② STANDBY-ON** 

- Turn on the unit, or switch to standby.

**③ iR**

- Remote sensor.

**④ SOURCE**

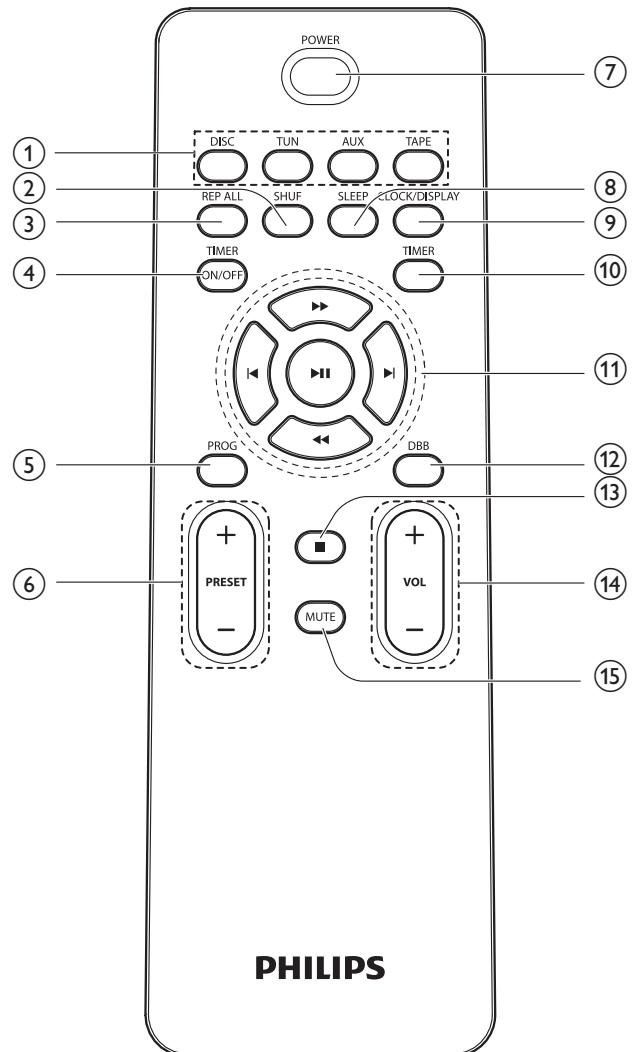
- Select a source: disc, tuner, tape or AUX (external audio source).

**⑤ PRESET +/-**

- Select a preset radio station.

- ⑥ **DBB**
  - Turn on or off dynamic bass enhancement.
- ⑦ **Tape deck operation**
  - ● Start to record.
  - ▶ Start tape play.
  - ◀◀ / ▶▶ Fast rewind/wind the tape.
  - Stop the tape play or open the tape door.
  - || Pause tape play or pause recording.
- ⑧ **TUNING ◀◀ / ▶▶**
  - Skip to a previous or next track.
  - Search within a track or disc.
  - Tune to a radio station.
- VOL +/-**
  - Adjust volume.
- ⑨ **▶ ||**
  - Start or pause play.
- ⑩ **REPEAT**
  - Repeat a track or disc.
- ⑪ **PROG**
  - Program tracks.
  - Program radio stations.
- ⑫ **■**
  - Stop play or erase a program.
- ⑬ **PULL TO OPEN**
  - Pull to open the tape button cover.

## Overview of the remote control



- ① **Source selection keys**
  - Select a source: disc, tuner, tape or AUX (external audio source).
- ② **SHUF**
  - Play tracks randomly.
- ③ **REP ALL**
  - Play all tracks repeatedly.
- ④ **TIMER ON/OFF**
  - Turn on or off alarm timer.
- ⑤ **PROG**
  - Program tracks.
  - Program radio stations.



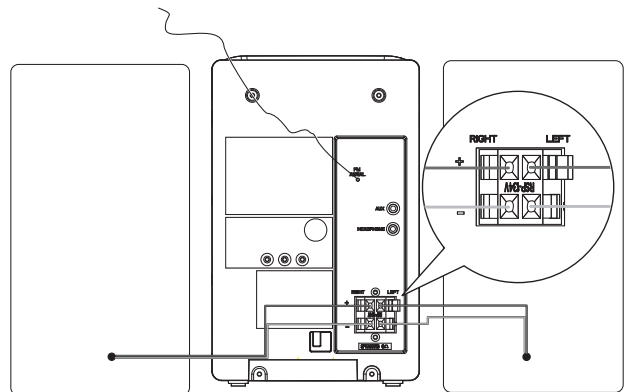
- ⑥ **PRESET +/-**
  - Select a preset radio station.
- ⑦ **POWER**
  - Switch on the unit
  - Switch to standby.
- ⑧ **SLEEP**
  - Set the sleep timer.
- ⑨ **CLOCK/DISPLAY**
  - Set the clock.
  - Display play information.
- ⑩ **TIMER**
  - Set the alarm timer.
- ⑪ **▶||**
  - Start or pause play.
- ◀◀ / ▶▶**
  - Search within a track or disc.
  - Tune to a radio station.
- ◀ / ▶**
  - Skip to a previous or next track.
- ⑫ **DBB**
  - Turn on or off dynamic bass enhancement.
- ⑬ **■**
  - Stop play or erase a program.
- ⑭ **VOL +/-**
  - Adjust volume.
- ⑮ **MUTE**
  - Mute volume.

## 3 Get started

### Caution

- Use the controls only as stated in this user manual.
- Always follow the instructions in this chapter in sequence.

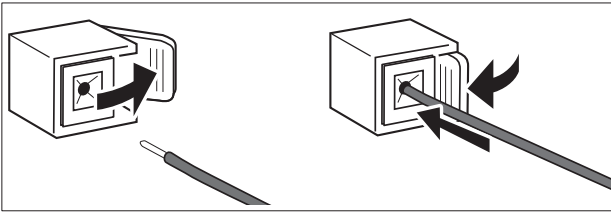
## Connect speakers



### Note

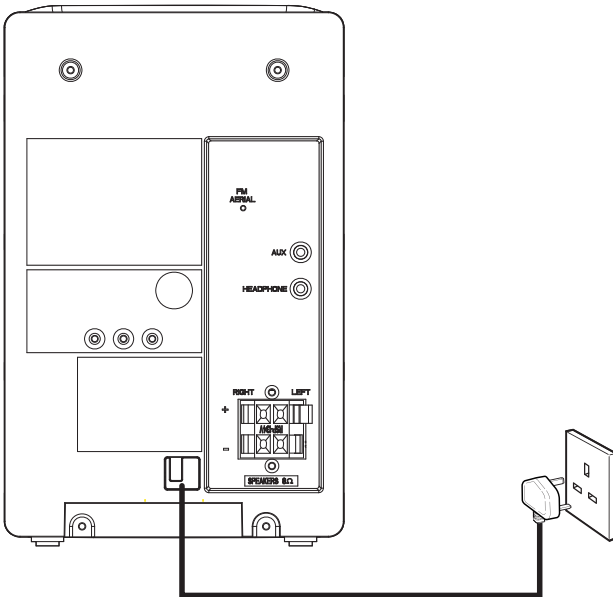
- Insert the stripped portion of each speaker wire into the socket completely.
- For optimal sound, use the supplied speakers only.
- Connect only speakers with impedance that is the same or higher than the supplied speakers. Refer to the Specifications section of this manual.

- 1 For the right speaker, find the sockets on the main unit marked 'RIGHT'.
- 2 Insert the red wire to the red (+) socket. To insert each speaker wire:
  - ① Hold down the socket flap.
  - ② Insert the speaker wire fully.
  - ③ Release the socket flap.



- 3 Insert the black wire into the black (-) socket.
- 4 For the left speaker, find the sockets on the main unit marked 'LEFT'.
- 5 Repeat steps 2-3.

## Connect power



### ! Caution

- Risk of product damage! Make sure that the power supply voltage corresponds to the voltage printed on the back of the unit.
- Before connecting the AC power cord, make sure that you have completed all other connections.

- 1 Connect the AC power cord to the power outlet.

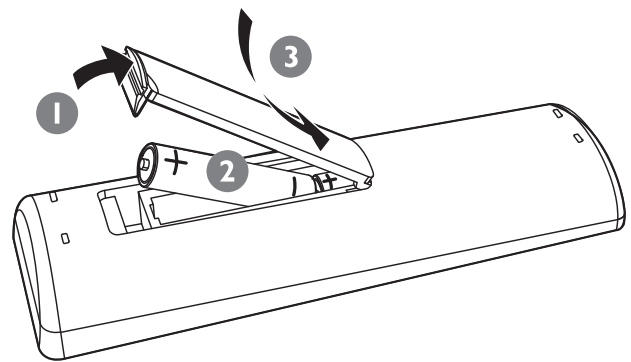
## Prepare the remote control

### ! Caution

- Risk of explosion! Keep batteries away from heat, sunshine or fire. Never discard batteries in fire.

### To insert the remote control battery:

- 1 Open the battery compartment.
- 2 Insert 2 AAA batteries (not supplied) with correct polarity (+/-) as indicated.
- 3 Close the battery compartment.



### ≡ Note

- If you are not going to use the remote control for a long time, remove the batteries.
- Do not use old and new or different types of batteries in combination.
- Batteries contain chemical substances, so they should be disposed of properly.

## Set clock

- 1 Press **STANDBY-ON**  $\odot$  to switch the unit to standby.  
 ↳ --:-- (or clock) is displayed.
- 2 Press and hold **CLOCK/DISPLAY** to activate the clock setting mode.  
 ↳ The 12 hour or 24 hour format is displayed.

- 3 Press **PROG** repeatedly to select 12 hour or 24 hour format.
- 4 Press **CLOCK/DISPLAY** to confirm.  
↳ The hour digits are displayed and begin to blink.
- 5 Press **◀/▶** (or **TUNING ◀/▶** on the main unit) to set the hour.
- 6 Press **CLOCK/DISPLAY** to confirm.  
↳ The minute digits are displayed and begin to blink.
- 7 Press **◀/▶** (or **TUNING ◀/▶** on the main unit) to set the minute.
- 8 Press **CLOCK/DISPLAY** to confirm.



#### Tip

- To view the clock during play, press **CLOCK/DISPLAY** repeatedly until the clock is displayed.

---

## Turn on

- 1 Press **POWER**.  
↳ The product switches to the last selected source.

---

## Switch to standby

- 1 Press **POWER** to switch the unit to standby mode.  
↳ The backlight on the display panel is dimmed.  
↳ The clock (if set) appears on the display panel.

# 4 Play

---

## Play disc

- 1 Press **DISC** to select the disc source.
- 2 Pull at **PULL TO OPEN** on the top panel to open the disc compartment.
- 3 Insert a disc with the printed side facing up, then close the disc compartment.
- 4 Press **▶||** to start play.
  - To pause/resume play, press **▶||**.
  - To stop play, press **■**.

---

## Skip to a track

- 1 During disc play, press **◀/▶** to select another track.

---

## Search within a track

- 1 During play, press and hold **◀/▶**.
- 2 Release to resume normal play.

---

## Repeat play

- 1 During play, select a repeat play mode:
  - To play the current track repeatedly, press **REPEAT** on the main unit.
  - To play all tracks repeatedly, press **REP ALL** on the remote control.
- 2 To return to normal play, press **REPEAT** or **REP ALL** again.

---

## Random play

- 1 During play, press **SHUF**.  
↳ [SHUF] (shuffle) is displayed: all tracks are played randomly.
- 2 To return to normal play, press **SHUF** again.



### Note

- Random play cannot be selected when you play programmed.

---

## Program tracks

You can program a maximum of 20 tracks.

- 1 At CD mode, in the stop position, press ◀ / ▶ to select a track number.
- 2 Press **PROG** to confirm.  
↳ [PROG] (program) blinks on the display.
- 3 Repeat steps 1 to 2 to select all tracks to program.
- 4 Press ▶|| to play the programmed tracks.  
↳ During play, [PROG] (program) is displayed.
  - To erase the program, in the stop position, press ■.

# 5 Adjust volume level and sound effect

---

## Adjust volume level

- 1 During play, press **VOL +/-** to increase or decrease the volume level.

---

## Enhance bass

- 1 During play, press **DBB** to turn on or off dynamic bass enhancement.  
↳ If DBB is activated, DBB is displayed.

---

## Mute sound

- 1 During play, press **MUTE** to mute or resume sound.

# 6 Listen to radio

---

## Tune to a radio station

- 1 Press **TUN** to select radio source.
- 2 Press and hold **◀◀ / ▶▶** for more than 2 seconds.
  - ↳ **[SEARCH]** (search) is displayed.
  - ↳ The radio tunes to a station with strong reception automatically.
- 3 Repeat step 2 to tune to more stations.
  - To tune to a weak station, press **◀◀ / ▶▶** repeatedly until you find optimal reception.

---

## Program radio stations automatically

You can program a maximum of 40 preset radio stations.

- 1 In the tuner mode, press and hold **PROG** for 2 seconds to activate automatic program mode.
  - ↳ **[AUTO]** (auto) is displayed.
  - ↳ All available stations are programmed in the order of waveband reception strength.
  - ↳ The first programmed radio station is broadcast automatically.

---

## Program radio stations manually

You can program a maximum of 40 preset radio stations.

- 1 Tune to a radio station (see "Tune to a radio station" section).

- 2 Press **PROG** to activate program mode.
  - ↳ **[PROG]** blinks on the display.
- 3 Press **PRESET +/-** to allocate a number to this radio station, then press **PROG** to confirm.
  - ↳ The preset number and the frequency of the preset station are displayed.
- 4 Repeat the above steps to program other stations.



### Tip

- To overwrite a programmed station, store another station in its place.

---

## Select a preset radio station

- 1 In tuner mode, press **PRESET +/-** to select a preset number.



### Tip

- Position the antenna as far as possible from TV, VCR or other radiation source.
- For optimal reception, fully extend and adjust the position of the antenna.

# 7 Listen to tape

## Note

- When you play or record a tape, the sound source cannot be changed.
- To record, use only "Normal" (IEC type I) tapes on which the write-protect notches (tabs) are not broken.

---

## Play a tape

- 1 Press **TAPE** to select the tape source.
- 2 Pull at **PULL TO OPEN** on the front panel to open the tape button cover.
- 3 Press **■▲** to open the tape door.
- 4 Load a tape with the open side downward and the full spool to the left, and close the tape door.
- 5 Press **▶** to start play.
  - To pause or resume play, press **||**.
  - To stop play, press **■▲**.
  - To fast rewind or wind the tape, press **◀◀/▶▶**.

---

## Record from CD to tape

- 1 Press **DISC** to select the disc source.
- 2 Load a disc.
  - To record from the beginning of the disc, stop disc play from the beginning.
  - To record a section of the disc, stop disc play from the beginning of the section.
- 3 Pull at **PULL TO OPEN** on the front panel to open the tape button cover.
- 4 Press **■▲** to open the tape door.
- 5 Load a tape with the open side downward and the full spool to the left, and close the tape door.

- 6 Press **●** to start recording.
  - ↳ Disc play starts automatically from the beginning of the disc or the selected section.
  - To pause or resume recording, press **||**.
  - To stop recording, press **■▲**.

---

## Record from radio to tape

- 1 Tune to a radio station.
- 2 Pull at **PULL TO OPEN** on the front panel to open the tape button cover.
- 3 Press **■▲** to open the tape door.
- 4 Load a tape with the open side downward and the full spool to the left, and close the tape door.
- 5 Press **●** to start recording.
  - To pause or resume recording, press **||**.
  - To stop recording, press **■▲**.

# 8 Other features

## Note

- Alarm timer is not available in AUX mode.
- If disc or tape source is selected and the track or tape cannot be played, tuner is activated automatically.

---



## Set the alarm timer

This unit can be used as an alarm clock. The disc or tuner is activated to play at a preset time.

- 1 Make sure that you have set the clock correctly.
- 2 Press **POWER** to switch the unit to standby.  
↳ The clock is displayed.
- 3 Press and hold **TIMER**.  
↳ A prompt to select the source is displayed.
- 4 Press **DISC**, **TUN**, or **TAPE** to select a source.
- 5 Press **TIMER** to confirm.  
↳ The hour digits are displayed and begin to blink.
- 6 Press **◀▶** (or **TUNING ◀▶** on the remote control) to set the hour.
- 7 Press **TIMER** to confirm.  
↳ The minute digits are displayed and begin to blink.
- 8 Press **◀▶** (or **TUNING ◀▶** on the remote control) to set the minute.
- 9 Press **TIMER** to confirm.  
↳ The timer is set and activated.

---

## Activate and deactivate alarm timer

- 1 Press **TIMER ON/OFF** repeatedly to activate or deactivate timer.  
↳ If timer is activated, the display shows .  
↳ If timer is deactivated,  disappears.

---

## Set the sleep timer

This unit can switch to standby automatically after a set period of time.

- 1 When the unit is turned on, press **SLEEP** repeatedly to select a set period of time (in minutes).  
↳ When sleep timer is activated, the display shows **zzZ**.

### To deactivate sleep timer

- 1 Press **SLEEP** repeatedly until "0" is displayed.  
↳ When sleep timer is deactivated, **zzZ** disappears.

---

## Listen to an external device

You can listen to an external audio device (such as an MP3 player) through this unit.

- 1 Press **AUX** to select AUX source.
- 2 Connect an audio cable (not supplied) to:
  - **AUX** jack (3.5 mm) on the unit
  - the headphone jack on an external device
- 3 Start to play the device (see the device's user manual).

# 9 Product information



## Note

- Product information is subject to change without prior notice.

## Specifications

### Amplifier

Output Power	2 × 2W RMS
Frequency Response	125 - 16000 Hz
Signal to Noise Ratio	>60 dBA

### Disc

Laser Type	Semiconductor
Disc Diameter	12cm/8cm
Support Disc	CD-DA, CD-R, CD-RW
Frequency Response	125 -16000 Hz
Signal to Noise Ratio	65 dBA

Tuning Range	FM: 87.5 - 108 MHz MW: 531-1602 KHz
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Tuning grid	FM: 50 KHz MW: 9 KHz
-------------	-------------------------

Sensitivity - 26dB S/N Ratio	FM: 20 $\mu$ V MW: 5 mV/m
---------------------------------	------------------------------

Total Harmonic Distortion	< 5%
------------------------------	------

### Speakers

Speaker Impedance	8 ohm
Dimensions (W × H × D)	134 × 230 × 152 mm

## General information

AC power	230 - 240V, 50Hz
Operation Power Consumption	15W
Standby Power Consumption	<2W
Dimensions - Main Unit (W × H × D)	148 × 233 × 216 mm
Weight (with/without speakers)	approximately 3.65/1.53 kg

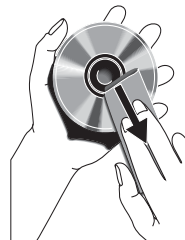
## Maintenance

### Clean the cabinet

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

### Clean 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.

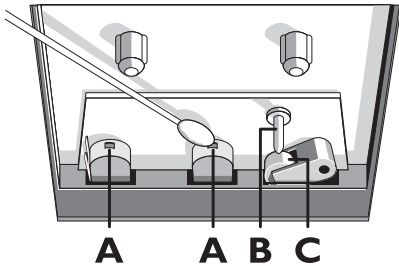
### Clean the disc lens

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



### Clean the heads and the tape paths

- To ensure good recording and play 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.

### Demagnetise the heads

- Use a demagnetising tape available at your dealer.

# 10 Troubleshooting

## Caution

- Never remove the casing of this apparatus.

To keep the warranty valid, never try to repair the system yourself.

If you encounter problems when using this apparatus, check the following points before requesting service. If the problem remains unsolved, go to the Philips web site ([www.philips.com/welcome](http://www.philips.com/welcome)). When you contact Philips, ensure that the apparatus is nearby and the model number and serial number are available.

### No power

- Ensure that the AC power cord of the unit is connected properly.
- Ensure that there is power at the AC outlet.
- As a power-saving feature, the system switches off automatically 15 minutes after track play reaches the end and no control is operated.

### No sound or poor sound

- Adjust the volume.
- Disconnect the headphones.
- Check that the speakers are connected correctly.
- Check if the stripped speaker wires are clamped.

### Left and right sound outputs reversed

- Check the speaker connections and location.

### No response from the unit

- Disconnect and reconnect the AC power plug, then turn on the unit again.

### Remote control does not work

- Before you press any function button, first select the correct source with the remote control instead of the main unit.

- Reduce the distance between the remote control and the unit.
- Insert the battery with its polarities (+/- signs) aligned as indicated.
- Replace the battery.
- Aim the remote control directly at the sensor on the front of the unit.

#### **No disc detected**

- 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.
- Use a finalized CD or correct format disc.

#### **Poor radio reception**

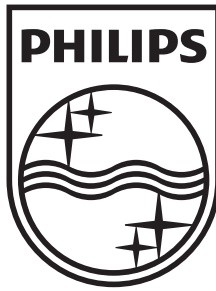
- Increase the distance between the unit and your TV or VCR.
- Fully extend the antenna.

#### **Timer does not work**

- Set the clock correctly.
- Switch on the timer.

#### **Clock/timer setting erased**

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



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