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CSM1000



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1 Important

Safety

- Read and understand all instructions before you use the apparatus. If damage is caused by failure to follow instructions, the warranty does not apply.
- This unit is designed for negative ground (earth) 12 V DC operation only.
- Use only the supplied mounting hardware for a safe and secure installation.
- Do not connect any active speakers (with built-in amplifier) to the speaker terminals of the unit. Doing so may damage the active speakers.
- To ensure safe driving, adjust the volume to a safe and comfortable level.
- To avoid short circuit, do not expose the apparatus, remote control or remote control batteries to rain or water.
- Never expose the apparatus to direct sunlight, naked flames or heat.
- Clean the apparatus with soft, damp cloth. Never use substances such as alcohol, chemicals or household cleaners on the apparatus.

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.

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Notice

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.

2 Your car active subwoofer

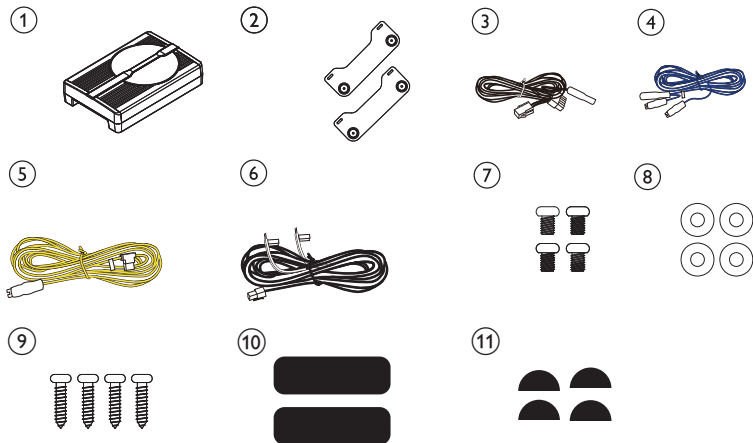
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Introduction

With the active subwoofer, you can enjoy high-quality sound performance with powerful bass and beats.

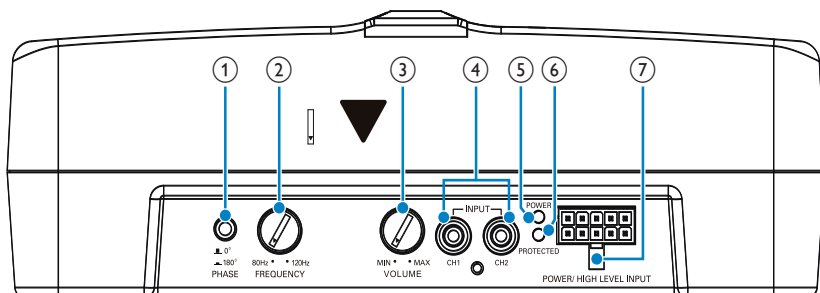
What's in the box

Check and identify the contents of your package:



- | | |
|-----------------------|--------------------------------|
| ① Main unit | ⑦ Tap type screw (M6x8 mm) x 4 |
| ② Mounting plates x 2 | ⑧ Washer x 4 |
| ③ Power cable | ⑨ Machine screw (Ø5x20 mm) x 4 |
| ④ Power control cable | ⑩ Velcro straps x 2 |
| ⑤ Battery (+) cable | ⑪ Cushion x 4 |
| ⑥ Speaker wire | |

Overview of the main unit



① PHASE

- Adjust the phase of subwoofer signal.

② FREQUENCY

- Set LPF (low-pass-filter) frequency from 80Hz to 120Hz.

③ VOLUME

- Adjust volume from 0 to maximum level.

④ INPUT (Ch1, Ch2)

- To connect car audio with RCA cable.

⑤ POWER

- Light in blue when power is turned on.

⑥ PROTECTED

- Lights in red when the protector is activated.

⑦ POWER/HIGH LEVEL INPUT

- To connect power supply (+12V-DC power supply, ground wire, and remote control wire) and car audio with bare wires.

3 Installation



Note

- Follow all mounting and wiring instructions.

Mount the subwoofer in car

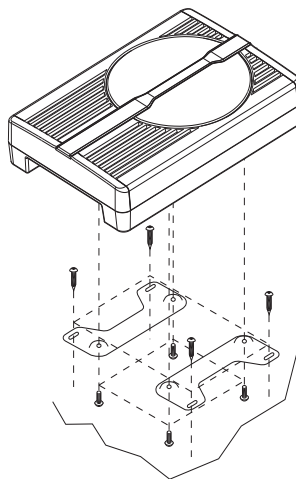
You can mount the subwoofer either under a seat or on the rear tray.



Note

- Make sure that the mounting location is safe for drilling and wiring, and it will not interfere with the mechanical and electrical components of the vehicle.
- For under-seat installation, make sure that it does not obstruct seat mobility.

- 1 Place the subwoofer on the location for installation.
- 2 Mark the positions of the four screw holes.
- 3 Drill the holes with driller of approximately 4mm in diameter.
- 4 Mount the subwoofer with the supplied screws and brackets.



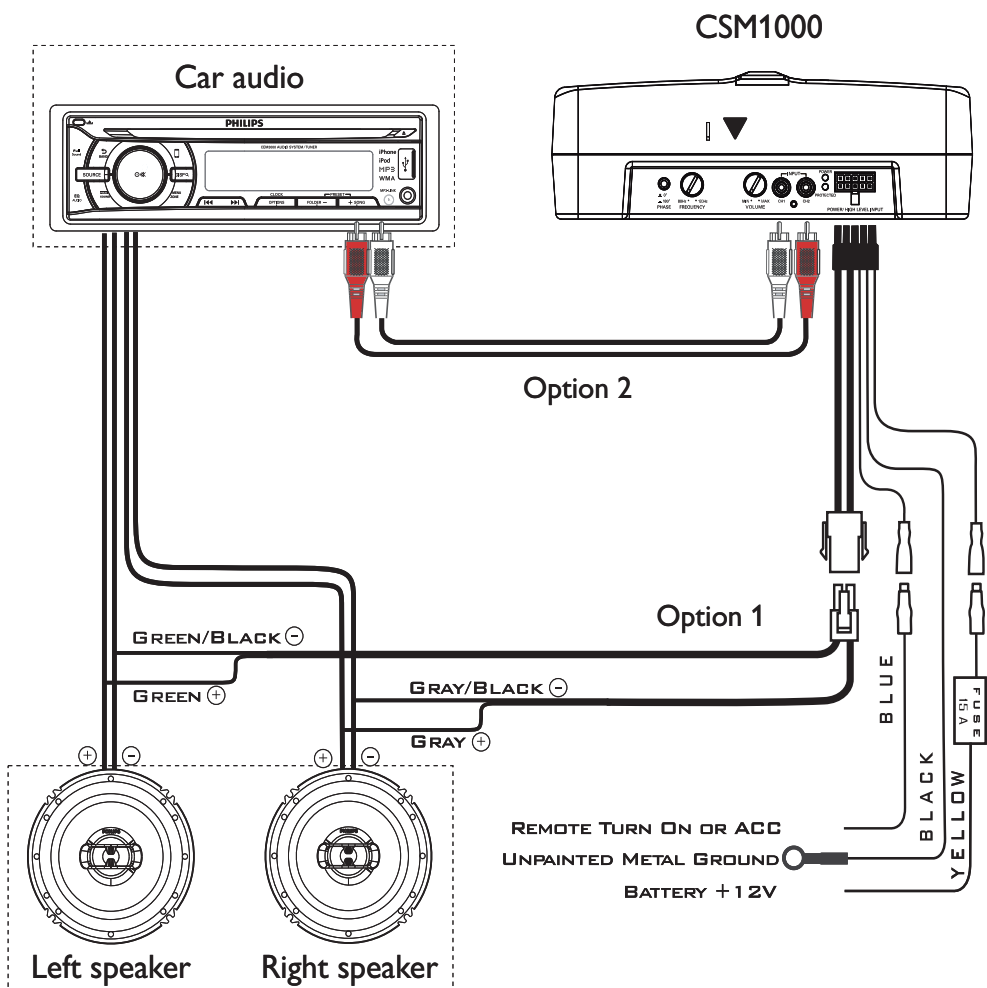
Connect wires



Caution

- Ensure that all loose leads are insulated with electrical tape.

- 1 Connect the subwoofer to your car audio by:
 - (option 1) connect to bare speaker wires from car audio.
 - (option 2) connect to the car audio directly via an RCA cable.



- 2 Make the power connection by:
- connect the ground wire from the car to the **GND** socket.
 - connect the remote wire from the car audio to the **REM** socket.
 - With this connection, you can turn on/off the subwoofer with the car audio.
 - connect the power wire from the car battery to the **+12V** socket



Tip

- If your car audio does not have remote output, connect the remote input terminal (REM) to the accessory power supply.

4 Use your active subwoofer



Note

- Before playing music, position all knobs at the minimum level.

Adjust phase

The location of the subwoofer determines the overall quality of the music. Even you are seat at sweet spot, the bass effect you heard might not in-phase with the overall music signal, for the subwoofer created a phase difference. In this case, you can change the phase of bass signal to enhance overall bass response, as well as overall feeling of the music.

- 1 Press down **PHASE**.
 - ↳ The bass signal is 180 degree out of phase with the original one.
- To resume original bass effect, press **PHASE** again to release the button.

Adjust frequency

You can change LPF (low-pass-filter) frequency from 80Hz to 120Hz.

- 1 Rotate **FREQUENCY** to adjust frequency.

Adjust volume

You can change volume from minimum level (0) to maximum level.

- 1 Rotate **VOLUME**.

About the protector indicator

The subwoofer has a built-in protection circuit to protect the transistors and speakers in following conditions:

- The subwoofer is overheated.
- A DC current is generated in the speakers.
- The battery voltage is over low or over high. Or
- The speaker terminals are short circuited.

When the **PROTECTED** indicator lights up in red, the subwoofer shuts down automatically. In this case, please:

- 1 Take out the disc or tape and turn off the car audio.
- 2 Check the cause of the malfunction.
- 3 If the subwoofer is overheated, let it cool down.

5 Product information

Note

- Product information is subject to change without prior notice.

Speaker type	Active subwoofer
Maximum output power	550Watt
Rated power	85Watt
Operating frequency	80Hz ~ 120Hz
Phase	0°, 180°
S/N ratio (rated power: 4ohms)	95dB
Sensitivity (1% distortion)	100mV at RCA, 1.8V at speaker level
Operating voltage	14.4V (10.5V ~ 16V)
Dimensions (DxWxH)	240 × 350 × 80mm
Weight (main unit)	3.9 kg

6 Troubleshooting

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). When you contact Philips, ensure that the apparatus is nearby and the model number and serial number are available.

The sound is too low.

- The volume is not set correctly (see "Adjust volume").

The sound is interrupted or stopped suddenly.

- The thermal protector is activated. Reduce the volume.
- The ventilation outlet is blocked. Remove any obstructions from the outlet.

Alternate noise is heard.

- The power connecting wires are installed too close to the RCA pin cords.
- The ground wire is not securely connected to a metal point of the car.
- Negative speaker wires touch the car chassis.

Sound is distorted.

- Make sure the speaker polarity is correct.
- Adjust phase.

The protector indicator lights up in red.

- The subwoofer is overheated. Cool down the subwoofer.

The unit becomes abnormally hot.

- Place the subwoofer in a well ventilated location.

