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CMQ205



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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.

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.

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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2 Your car power amplifier

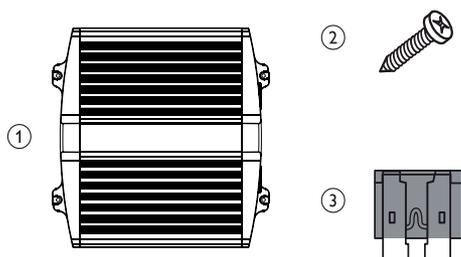
Congratulations on your purchase, and welcome to Philips! To fully benefit from the support that Philips offers, register your product at www.philips.com/welcome.

Introduction

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

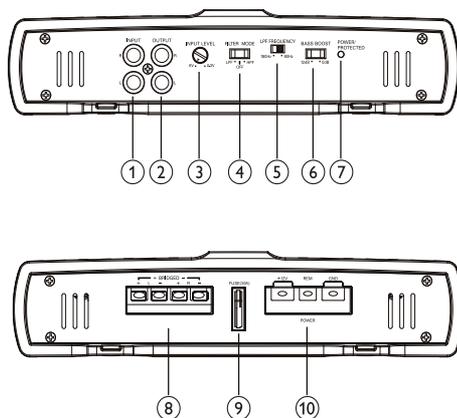
What's in the box

Check and identify the contents of your package:



- ① Amplifier
- ② Screw (25mm) x 4
- ③ Fuse x 1

Overview of the main unit



- ① **INPUT L/R**
 - Connect car audio with RCA cable.
- ② **OUTPUT L/R**
 - To connect additional amplifier with RCA cable for additional speakers.
- ③ **INPUT LEVEL**
 - Adjust input level (0.3V to 6V).
- ④ **FILTER MODE**
 - Set frequency filter at LPF (low-pass-filter), HPF (high-pass-filter), or OFF (flat) mode.
- ⑤ **LPF FREQUENCY**
 - Set LPF (low-pass-filter) frequency from 80Hz to 120Hz.
- ⑥ **BASS BOOST**
 - Boost frequency for around 50Hz, 12dB.
- ⑦ **POWER/PROTECTED**
 - Light in green when the amplifier is switched on.
 - Light in red when the amplifier is abnormal and protected.
- ⑧ **SPEAKER OUTPUT**
 - Connect to speakers or subwoofers.

⑨ FUSE: 30AX1

⑩ POWER

- To connect +12V-DC power wire, ground wire, and remote control wire.

3 Installation

Note

- Follow all mounting and wiring instructions.

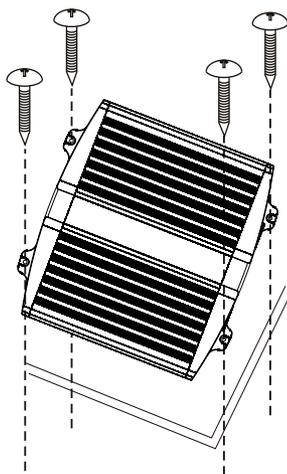
Mount the amplifier in car

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

Note

- To avoid interference, do not place the amplifier too close to the car audio or antenna.
- The supplied mounting screws are 25mm long. Make sure that the mounting board is thicker than 25mm.

- 1 Place the unit 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 unit with the supplied screws.

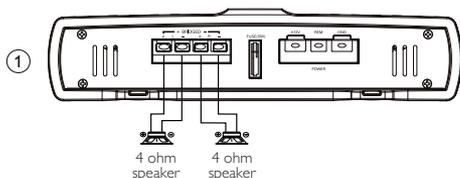


Connect speakers

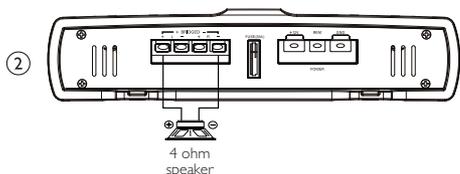
Note

- Use speakers with an impedance of 2 to 8 ohm (4 to 8 ohm when used as a bridged amplifier).
- Match the "left", "right", "+" and "-" terminals correctly. Revised polarity may degrade sound quality.

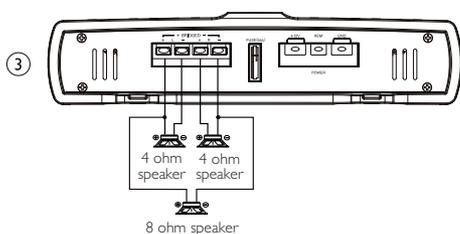
Option 1: Stereo mode: connect 2 speakers



Option 2: Mono bridged mode: connect 1 speaker



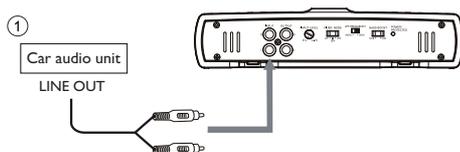
Option 3: Tri-mode: connect 3 speakers



Connect car audio

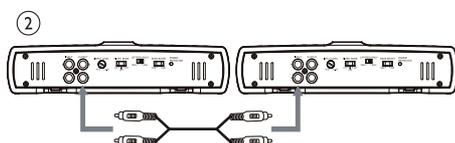
Option 1: Line input connection

Connect the amplifier to the car audio with an RCA cable (not supplied).



Option 2: Line output connection

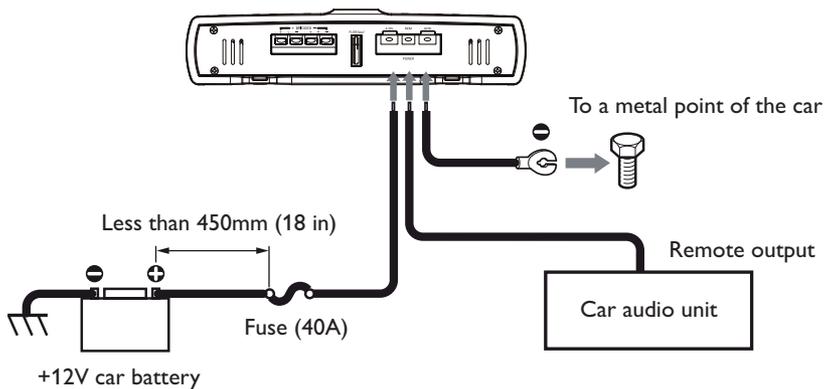
Connect the amplifier to another amplifier:



Connect power

① Make the power connection as illustrated below:

- 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 amplifier 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 power amplifier

Select filter mode

Select Filter Mode according to the connected speaker type.

- Slide **FILTER MODE** to the selected position.
 - HPF** (high-pass-filter): Select this mode when mid-range speakers and tweeters are connected for high frequency output.
 - LPF** (low-pass-filter): Select this mode when woofer and subwoofer are connected for low frequency output.
 - OFF** (flat): Select this mode when both tweeters and woofers are connected.

Select LPF frequency

When **FILTER MODE** is set at **LPF** position, you can select the range of frequency that is to be filtered.

Note

- When **FILTER MODE** is set at **OFF** or **HPF** position, **LPF FREQUENCY** does not work.

- Slide **LPF FREQUENCY** to the selected position.
 - 80Hz**: More high frequency signal is filtered. Select **80Hz** if you prefer stronger bass effect.
 - 180Hz**: Less high frequency signal is filtered.

Adjust input level

To ensure sound quality, adjust input level to match it with the car audio's output voltage.

- Check the line output voltage of the connected car audio.
- Rotate **INPUT LEVEL** to select a matched voltage: 0.3V to 6V.

Adjust bass boost

To enjoy more bass sound:

- Set **FILTER MODE** at **OFF** or **LPF** mode.
- Slide **BASS BOOST** to **12dB** position.

Tip

- If **BASS BOOST** is set at **0dB** position, no extra bass will be boosted.

Note

- If **FILTER MODE** is set at **HPF** mode, the bass frequency will be filtered.

About the protector indicator

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

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

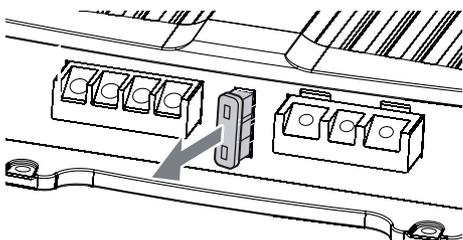
When the **PROTECTED** indicator lights up in red, the amplifier shuts down automatically. In this case please:

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

Replace fuse

If there is no power, the fuse might be damaged and need to be replaced.

- 1 Pull out the damaged fuse.
- 2 Replace the fuse with the supplied fuse or buy a new fuse that matches the rating of the damaged fuse (30A x 1).



If the fuse gets damaged immediately after it has been replaced, the amplifier might have internal malfunction. Consult qualified personal for repair:

5 Product information

Note

- Product information is subject to change without prior notice.

Power output (RMS)	- 4 ohm	75W x 2
	- 2 ohm	110W x 2
	- 4 ohm (bridged)	220W x 1
Total harmonic distortion	0.09%	
Signal to noise ratio	100dB	
Channel separation	50dB	
Frequency response	5-50kHz	
Input sensitivity	300mV - 6V	
Input impedance	22k ohm	
Fuse rating	30A x 1	
Dimensions (D x W x H)	246 x 240 x 54mm	
Weight	1.98kg	

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.

Power indicator does not light up

- The connected car audio is not turned on.
- The fuse is blown. Replace the fuse with a new one.
- The input level is not set correctly (see "Adjust input level").

The protector indicator lights up in red.

- The speaker terminals are short circuited. Check the speaker connections.

The sound is too low.

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

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.

The unit becomes abnormally hot.

- Place the amplifier in a well ventilated location.
- Use speakers with suitable impedance: 2-8 ohm (stereo), 4-8 ohm (bridged).

