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VEVOR CB-400D-C

VEVOR CB-400D-C 400W Monoblock Car Amplifier User Manual

Model: CB-400D-C

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your VEVOR CB-400D-C 400W Monoblock Class D Car Audio Amplifier. Please read this manual thoroughly before using the product to ensure proper function and safety. This amplifier is designed to deliver powerful and clear bass for your car audio system.



The VEVOR CB-400D-C 400W Monoblock Car Amplifier.

2. SAFETY INSTRUCTIONS

- Always disconnect the vehicle's negative battery terminal before performing any wiring or installation.
- Ensure all wiring is correctly routed and secured to prevent damage or short circuits.
- Install an external fuse within 12 inches (30 cm) of the battery's positive terminal.
- Avoid installing the amplifier in locations exposed to direct sunlight, excessive heat, moisture, or dust.
- Ensure adequate ventilation around the amplifier to prevent overheating.
- Do not open the amplifier casing. Refer all servicing to qualified personnel.
- Use appropriate gauge wiring for power and speaker connections as recommended.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Car Amplifier (VEVOR CB-400D-C)
- 1 x Volume Controller (with 16.4 ft / 5 m cable)
- 1 x Desiccant Pack
- 4 x Screws
- 2 x Fuses
- 1 x User Manual

4. PRODUCT FEATURES

- **400W RMS Power:** Delivers 400W RMS at 1Ω, optimized for subwoofers to provide deep bass and strong impact. Features ultra-low total harmonic distortion and noise for clear sound.
- **Wide Compatibility:** Compatible with most factory car audio systems in sedans and pickups. Supports 1Ω, 2Ω, and 4Ω loads and flexible wiring. Works with 10-inch and 12-inch single/dual voice coil subwoofers.
- **Real-Time Volume Control:** Includes a remote controller with a 16.4 ft (5 m) cable for adjusting bass volume from the driver's seat.
- **Adjustable Audio Settings:** Features a control panel with Low Pass Filter, Bass Boost, and Phase Shift for precise audio customization.
- **Compact Design:** Its small size allows for flexible installation in various vehicle locations, such as behind the rear seat or in the trunk.
- **Cooling and Protection:** Constructed with an aluminum alloy chassis and ventilation holes for improved passive heat dissipation. Built-in temperature, overcurrent, and overvoltage protection ensure safe operation.

5. SETUP AND INSTALLATION

5.1 Pre-Installation Tips

- Disconnect your vehicle's negative battery terminal before wiring.
- An external fuse must be installed within 12 inches (30 cm) of the battery's positive terminal.



This detailed diagram provides clear instructions for connecting the amplifier to the car's head unit, subwoofers, and battery, including important tips for pre-installation and external fuse placement.

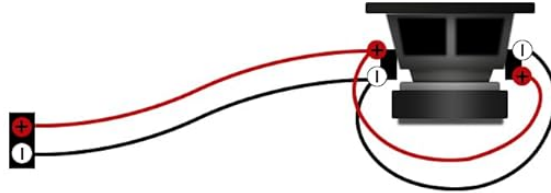
5.2 Wiring Connections

The amplifier supports various subwoofer configurations. Refer to the diagram below for common wiring examples for 1Ω,

Wide Compatibility

1Ω Total

Single Sub
Parallel Voice Coil Example



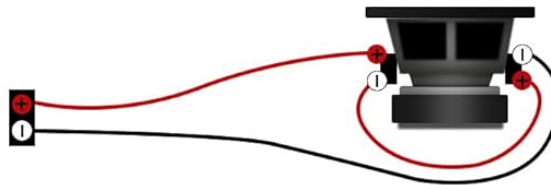
2Ω Total

Single Sub
Single Voice Coil Example



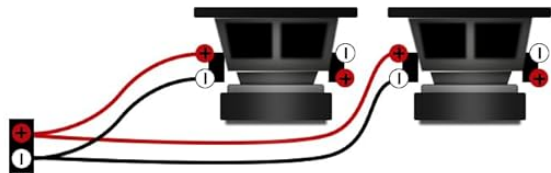
4Ω Total

Single Sub
Series Voice Coil Example



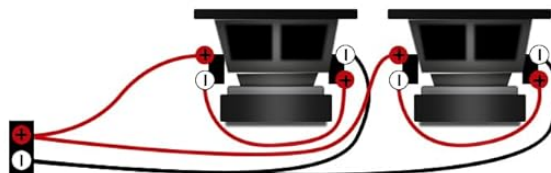
1Ω Total

Dual Sub,
Parallel Voice Coil Example



2Ω Total

Dual Sub
Series-Parallel Voice
Coil Example



This image provides various wiring configurations for connecting single and dual voice coil subwoofers to the amplifier, demonstrating compatibility with 1 Ohm, 2 Ohm, and 4 Ohm total impedance setups.

5.3 Physical Installation

Due to its compact size, the amplifier offers flexible installation options. Common locations include behind the rear seat or within the trunk's side panel. Ensure the chosen location allows for proper ventilation.

Ultra Slim Body for Flexible Installation



This diagram illustrates the compact design of the amplifier, allowing for flexible installation in tight spaces such as behind the rear seat or within the trunk's side panel.



The VEVOR CB-400D-C amplifier neatly installed in the trunk of a car, demonstrating a typical mounting location.

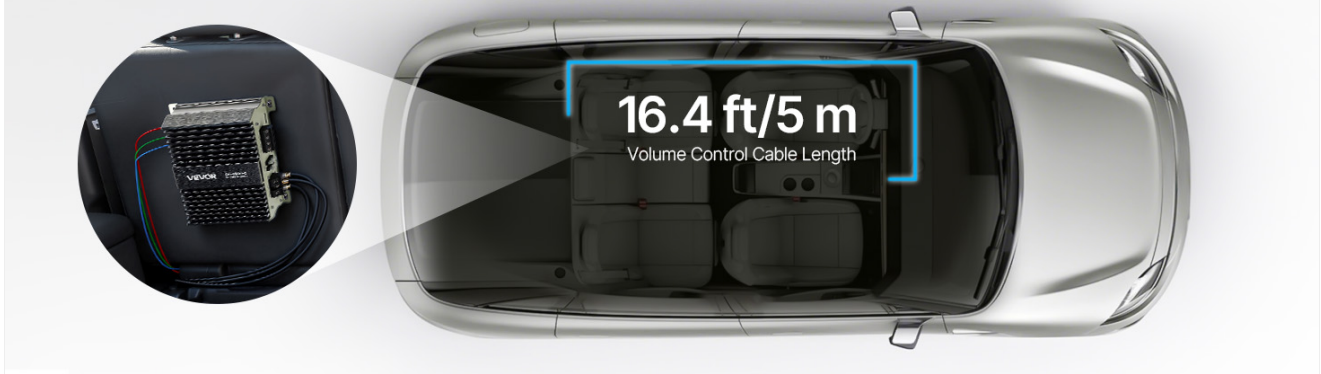
6. OPERATING INSTRUCTIONS

6.1 Remote Volume Control

The included remote volume controller allows you to adjust the bass level conveniently from the driver's seat. Connect the remote to the amplifier's 'REMOTE' port.

Total Control from the Driver's Seat

Fine-tune your bass instantly, anytime you drive



An overhead view of a car illustrating the amplifier's installation and the 16.4 ft (5 m) remote volume control cable, enabling convenient bass adjustments from the driver's seat.

6.2 Panel Adjustments

The amplifier's control panel provides several settings to fine-tune your audio output:

- **Phase Shift (0-180°):** Adjusts the phase of the subwoofer output to match the main speakers, improving bass integration.
- **Low Pass Filter (LPF):** Sets the upper frequency limit for the subwoofer, typically between 50Hz and 250Hz.
- **Subsonic Filter:** Filters out extremely low frequencies below the audible range, protecting the subwoofer from damage and improving sound quality. Recommended setting is 15-55Hz.
- **Bass Boost (0-12 dB):** Increases the bass output at a specific frequency, typically around 45Hz. Use sparingly to avoid distortion.
- **Input Level (MIN/MAX):** Matches the amplifier's input sensitivity to the output level of your head unit. Start at MIN and slowly increase until desired volume is reached without distortion.

Multiple Settings

Remote Control
Adjust volume from the driver's seat

Panel Adjustment

Input Level Control



Phase Shift
(0-180°)

Low Pass Filter

Subsonic Filter
Recommended: 15-55 Hz

Bass Boost
(0-12 dB)

This image displays the amplifier's control panel with adjustable settings for Phase Shift, Low Pass Filter, Subsonic Filter, and Bass Boost, alongside the remote volume control for convenient adjustment from the driver's seat.



A detailed view of the amplifier's control panel, showing the input terminals, fuse, speaker output, and adjustment knobs for phase, low pass filter, subsonic filter, bass boost, and input level.

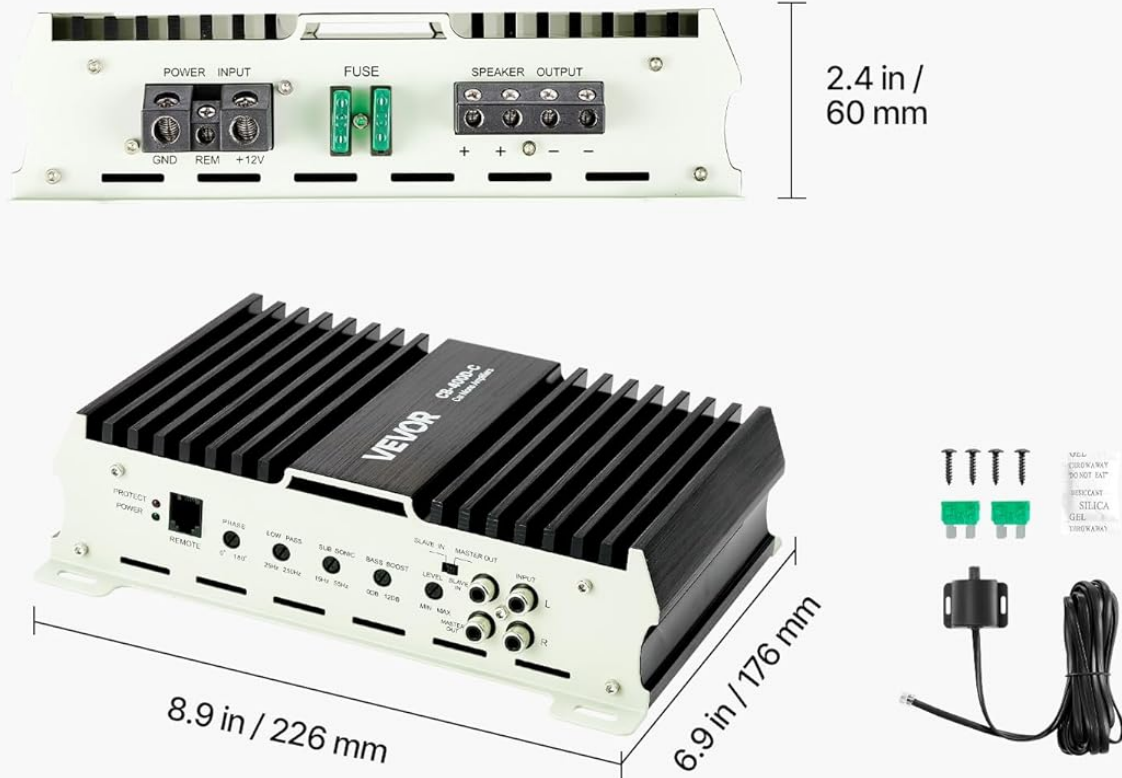
7. MAINTENANCE

- Keep the amplifier clean and free from dust. Use a soft, dry cloth for cleaning.
- Ensure all connections remain secure. Periodically check wiring for any signs of wear or damage.
- Do not block the ventilation holes on the amplifier to ensure proper heat dissipation.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No Power / Amplifier Not Turning On	Blown fuse, loose power/ground connection, remote turn-on wire disconnected.	Check and replace fuses. Verify all power, ground, and remote turn-on connections are secure.
No Sound Output	Input signal issue, speaker wires disconnected, amplifier in protection mode.	Check RCA input cables from head unit. Verify speaker connections. Check amplifier status indicator (PROTECT/POWER LED).
Distorted Sound	Input level too high, speaker impedance mismatch, damaged speaker.	Adjust input level (gain) on the amplifier. Ensure speaker impedance matches amplifier's capabilities. Inspect speakers for damage.
Amplifier Overheating	Insufficient ventilation, impedance too low, prolonged high-volume use.	Ensure amplifier has adequate airflow. Check speaker impedance. Reduce volume or allow amplifier to cool down.

9. SPECIFICATIONS



Item Model Number: **CB-400D-C**

Voltage Range: **DC 9-16V**

Rated Voltage: **DC 12 V**

Main Material: **Aluminum Alloy**

Product Weight: **4.2 lbs/1.92 kg**

Signal-to-Noise Ratio (SNR): **75 dB (1W), 102 dB (Max)**

Remote Control Cable Length: **16.4 ft/5 m**

Product Dimensions: **6.9 x 8.9 x 2.4 in / 176 x 226 x 60 mm**

Accessories: **1 x Volume Controller, 1 x Desiccant Pack, 4 x Screws, 2 x Fuses, 1 x User Manual**

RMS Power: **400W (1 Ω)**

Peak Power: **800W (1 Ω)**

Frequency Response: **15-250HZ**

Amplifier Class: **Class D**

Impedance: **1 Ω, 2 Ω, 4 Ω**

This image provides a detailed technical drawing of the amplifier, including its dimensions (6.9 x 8.9 x 2.4 inches) and a summary of key specifications.

Specification	Value
Item Model Number	CB-400D-C
Voltage Range	DC 9-16V
Rated Voltage	DC 12V
RMS Power	400W (1Ω)
Peak Power	800W (1Ω)
Frequency Response	15-250Hz
Amplifier Class	Class D
Impedance	1Ω, 2Ω, 4Ω
Main Material	Aluminum Alloy
Product Weight	4.2 lbs / 1.92 kg
Signal-to-Noise Ratio (SNR)	75 dB (1W), 102 dB (Max)
Remote Control Cable Length	16.4 ft / 5 m
Product Dimensions (L x W x H)	6.9 x 8.9 x 2.4 in / 176 x 226 x 60 mm

10. WARRANTY INFORMATION

For warranty details, please refer to the specific warranty policy provided with your purchase or visit the official VEVOR website. Keep your proof of purchase for any warranty claims.

11. SUPPORT

If you encounter any issues or have questions regarding your VEVOR CB-400D-C amplifier, please contact VEVOR customer service for assistance. Support contact information can typically be found on the VEVOR website or on your product packaging.