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› BOSS Audio Systems CE102 2-Channel Car Amplifier User Manual

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Model: CE102

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your BOSS Audio Systems CE102 2-Channel Car Amplifier. Please read this manual thoroughly before using the product to ensure proper functionality and safety.

IMPORTANT SAFETY INFORMATION

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Always ensure proper ventilation and avoid obstructing the amplifier's cooling fins. Disconnect the vehicle's battery before performing any electrical work. Professional installation is strongly recommended for optimal performance and safety.

KEY FEATURES

- **Power Output:** 50 Watts Max x 2 @ 4-Ohms.
- **Class A/B Topology:** Combines the sound quality of Class A with the efficiency of Class B amplifiers.
- **Variable Gain Control:** Adjusts the input signal level from your receiver to the amplifier.
- **High & Low Level Inputs:** Provides flexibility for connecting to various audio sources (RCA for low level, speaker wire for high level).
- **Fixed Low-Pass Crossover:** Filters out high frequencies, allowing only low frequencies to pass, ideal for subwoofers.
- **Fixed High-Pass Crossover:** Filters out low frequencies, allowing only high and mid-range frequencies to pass, suitable for full-range speakers or tweeters.
- **Compact Design:** Dimensions: 4" x 3.13" x 1.83".

SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your amplifier. It is highly recommended to have this product professionally installed.

Mounting the Amplifier

Select a secure, well-ventilated location for mounting the amplifier. Ensure it is protected from moisture and excessive heat. Use the provided mounting screws to secure the amplifier.



Image: Top view of the BOSS Audio Systems CE102 amplifier, showing the heat sink fins and the BOSS Audio Systems logo. The model number CE102 and "TWO CHANNEL POWER AMPLIFIER" are visible.

Wiring Connections

Before making any connections, disconnect the vehicle's negative battery terminal to prevent electrical shorts.

Power Connections

- **B+ (12V Power):** Connect directly to the positive terminal of the vehicle's battery using an appropriate gauge power cable and an inline fuse (not supplied).
- **GND (Ground):** Connect to a clean, unpainted metal surface of the vehicle chassis. Ensure a solid connection for optimal performance and safety.
- **REM (Remote Turn-On):** Connect to the remote output wire of your head unit. This wire turns the amplifier on and off with your car stereo.



Image: Close-up of the power and speaker terminal block on the BOSS CE102 amplifier. Labels for 'SPEAKER' (L+, L-, R+, R-) and 'POWER' (R, GND, B+) are visible, along with a green power indicator LED.

Audio Input Connections

- **Low Level Inputs (RCA):** Use RCA cables to connect the amplifier to the RCA pre-out jacks of your head unit. These inputs are measured in voltages.
- **High Level Inputs (Speaker Wire):** If your head unit does not have RCA outputs, use the high-level input connector. Connect the speaker output wires from your head unit directly to this input. These inputs are measured in wattages.



Image: Close-up of the input and control panel of the BOSS CE102 amplifier. It shows the High Input terminal, Low Input RCA jacks (R and L), a FILTER switch (L, OFF, H), and a LEVEL control knob (MIN to MAX).

Speaker Connections

Connect your speakers to the 'SPEAKER' terminals on the amplifier. Ensure correct polarity (+ to + and - to -) for each channel (Left and Right).

OPERATING INSTRUCTIONS

Adjusting the Gain Control (LEVEL)

The LEVEL control (also known as Gain Control) is used to match the amplifier's input sensitivity to the output level of your head unit. It is not a volume control. Start with the LEVEL control at minimum (MIN) and your head unit volume at about 75%. Slowly increase the LEVEL control until you hear distortion, then back it off slightly. This ensures the amplifier receives a clean signal.



Image: Graphic icon illustrating variable gain control, depicted as a curved line with an adjustable knob, indicating signal level adjustment.

Using the Crossover Filter (FILTER)

The CE102 amplifier features a three-position FILTER switch to optimize audio output for different speaker types:

- **L (Low-Pass):** Activates the fixed low-pass crossover. This setting is ideal for subwoofers, allowing only low frequencies to pass through.
- **H (High-Pass):** Activates the fixed high-pass crossover. This setting is suitable for full-range speakers or tweeters, allowing only high and mid-range frequencies to pass.
- **OFF:** Disables the crossover filter, allowing the full frequency range to pass through.



Image: Icons depicting Class A/B amplifier, fixed low-pass filter, and fixed high-pass filter, illustrating the amplifier's audio processing capabilities.

MAINTENANCE

The BOSS Audio Systems CE102 amplifier requires minimal maintenance. Keep the unit clean and free from dust and debris. Periodically check all wiring connections to ensure they are secure. Do not use harsh chemicals or abrasive cleaners on the amplifier's surface.

TROUBLESHOOTING

If you experience issues with your amplifier, consider the following basic checks:

- **No Power:** Check the inline fuse on the power cable. Ensure all power connections (B+, GND, REM) are secure and correctly wired. Verify the vehicle's battery has sufficient charge.
- **No Sound:** Check all audio input and speaker connections. Ensure the head unit is powered on and sending a signal. Verify the amplifier's gain (LEVEL) is adjusted correctly.
- **Distorted Sound:** Reduce the gain (LEVEL) control. Check speaker impedance compatibility. Ensure speaker wires are not shorted.
- **Amplifier Overheating:** Ensure the amplifier has adequate ventilation and is not covered. Check for proper

impedance matching with speakers.

For persistent issues, consult a professional car audio technician.

SPECIFICATIONS

Feature	Specification
Model	CE102
Number of Channels	2
Output Power	50 Watts Max x 2 @ 4-Ohms
Amplifier Class	Class A/B
Dimensions (L x W x H)	4 x 3.13 x 1.83 inches (100 x 79 x 48 mm)
Item Weight	12.8 ounces (0.36 kg)
Minimum Supply Voltage	4 Volts
Maximum Voltage	16 Volts
Inputs	High Level, Low Level (RCA)
Crossovers	Fixed Low-Pass, Fixed High-Pass

WARRANTY AND SUPPORT

BOSS Audio Systems provides a 6-year Platinum Online Dealer Warranty when the purchase is made through Amazon.com. For warranty claims or technical support, please refer to the official BOSS Audio Systems website or contact their customer service.

A detailed User Manual (PDF) is also available for download: [Download User Manual \(PDF\)](#)

