

ZJchao ZJchaoofg5b2gr9d

ZJchao Compact Audio Power Amplifier (Model: ZJchaoofg5b2gr9d) Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your ZJchao Compact Audio Power Amplifier, Model ZJchaoofg5b2gr9d. This amplifier is designed to deliver 20W per channel, providing clear audio output for various applications, including car and home audio systems. Its compact size and user-friendly controls make it suitable for diverse setups.

The amplifier features a durable, lightweight construction and includes LED-lighted knobs for easy adjustment and enhanced visibility.

2. SAFETY INFORMATION

- **Power Supply:** Use only the specified DC 12V power supply. Using an incorrect voltage can damage the device and pose a safety risk.
- **Ventilation:** Ensure adequate ventilation around the amplifier. Do not block ventilation openings. Overheating can lead to malfunction or fire.
- **Moisture:** Keep the amplifier away from water, moisture, and high humidity. Do not operate with wet hands.
- **Placement:** Place the amplifier on a stable, flat surface. Avoid placing it in direct sunlight or near heat sources.
- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth. Do not use liquid cleaners or aerosols.
- **Servicing:** Do not attempt to open or repair the amplifier yourself. Refer all servicing to qualified personnel.
- **Children:** Keep the device out of reach of children.

3. PACKAGE CONTENTS

Please check the package for the following items:

- 1 x ZJchao Compact Audio Power Amplifier

If any items are missing or damaged, please contact your retailer.

4. PRODUCT OVERVIEW

The ZJchao Compact Audio Power Amplifier features a straightforward design for ease of use. Below are diagrams illustrating the front and rear panels with their respective controls and ports.



Figure 4.1: Front and Rear Panel Layout

Front Panel Controls:

- **Power Switch:** Turns the amplifier on or off.
- **Bass Adjustment:** Adjusts the low-frequency output level.
- **Total Volume:** Controls the overall output volume. Features an LED ring for illumination.
- **High Regulating (Treble):** Adjusts the high-frequency output level.

Rear Panel Ports:

- **Audio Signal Input Port (RCA):** Connects to your audio source (e.g., smartphone, MP3 player, computer) using RCA cables.
- **Right Track Outlet (Speaker Output):** Connects to the right channel speaker.
- **Left Channel (Speaker Output):** Connects to the left channel speaker.
- **12V Input Port:** Connects to the DC 12V power adapter.



Figure 4.2: Amplifier Dimensions

The amplifier's compact dimensions are approximately 135mm (length) x 75mm (width) x 45mm (height).

Compact size audio power amplifier.

Two main channel output.
Left and right channel outputs are interfaces for speakers.



Figure 4.3: Compact Design and Speaker Outputs

The amplifier is designed for a compact footprint and provides two main channel outputs for connecting speakers.

5. SETUP

Follow these steps to set up your ZJchao Compact Audio Power Amplifier:

1. **Connect Speakers:** Connect your passive speakers to the 'Left Channel' and 'Right Track Outlet' terminals on the rear panel. Ensure that the speaker impedance is between 4-16Ω. Pay attention to polarity: connect the positive (+) terminal of the amplifier to the positive (+) terminal of the speaker, and the negative (-) terminal of the amplifier to the negative (-) terminal of the speaker.
2. **Connect Audio Source:** Connect your audio source (e.g., phone, tablet, computer, CD player) to the 'Audio Signal Input Port' (RCA) on the rear panel using appropriate RCA cables. Match the left and right channels.
3. **Connect Power:** Connect the DC 12V power adapter (not included) to the '12V Input Port' on the rear panel. Then, plug the power adapter into a suitable wall outlet.
4. **Initial Settings:** Before powering on, ensure the 'Total Volume' knob on the front panel is set to its minimum position to avoid sudden loud sounds.

6. OPERATING INSTRUCTIONS

Once the amplifier is set up, follow these steps for operation:

1. **Power On:** Press the 'Power Switch' on the front panel to turn on the amplifier. The LED ring around the volume knob will illuminate.
2. **Start Audio Playback:** Begin playing audio from your connected source device.
3. **Adjust Volume:** Slowly turn the 'Total Volume' knob clockwise to increase the sound level to your desired listening volume.
4. **Adjust Bass and Treble:** Use the 'Bass Adjustment' and 'High Regulating' (Treble) knobs to fine-tune the low and high frequencies of the audio output according to your preference.
5. **Power Off:** When finished, turn the 'Total Volume' knob to its minimum position, then press the 'Power Switch' to turn off the amplifier.

7. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your amplifier:

- **Cleaning:** Regularly wipe the exterior of the amplifier with a soft, dry, lint-free cloth. Do not use abrasive cleaners, waxes, or solvents.
- **Ventilation:** Ensure that the ventilation openings are free from dust and obstructions.
- **Storage:** If storing the amplifier for an extended period, disconnect it from the power source and store it in a cool, dry place, away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

If you encounter issues with your amplifier, refer to the following common problems and solutions:

- **No Power:**
 - Check if the power adapter is securely connected to both the amplifier and the power outlet.
 - Ensure the power outlet is functional.
 - Verify that the power switch on the amplifier is in the 'ON' position.
- **No Sound:**
 - Confirm that the audio source is playing and its volume is turned up.
 - Check all audio cable connections between the source and the amplifier, and between the amplifier and speakers. Ensure they are secure and correctly connected (left/right channels, positive/negative polarity).
 - Adjust the 'Total Volume' knob on the amplifier.
 - Ensure speakers are functional.
- **Distorted Sound:**
 - Reduce the 'Total Volume' level.
 - Check if the audio source's volume is too high, causing input clipping.
 - Ensure speaker impedance is within the 4-16Ω range.
 - Inspect speaker wires for frayed strands or short circuits.

- **Sound from Only One Channel:**

- Check the audio input cable for proper connection to both left and right channels.
- Verify the speaker wire connection for the non-working channel.
- Test with a different audio source or speaker to isolate the problem.

If the problem persists after trying these solutions, please contact customer support.

9. SPECIFICATIONS

Feature	Specification
Model	ZJchaoofg5b2gr9d
Power Output	20W x 2 channels
Load Impedance	4-16Ω
Signal-to-Noise Ratio (SNR)	85dB
Frequency Response	20Hz-20KHz
High Pitch Control	12dB±10KHz
Bass Control	12dB±100Hz
Item Size (L x W x H)	135 x 75 x 45mm (5.3 x 3.0 x 1.8in)
Item Weight	150g (5.3oz)

10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your purchase or contact your retailer. Keep your purchase receipt as proof of purchase.