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YaeCCC 5800W 12V 4 Channel Car Amplifier User Manual

Model: a592cbe8-a094-488f-b50d-20b91adfdd40

Introduction

Thank you for choosing the YaeCCC 5800W 12V 4 Channel Car Amplifier. This manual provides essential information for the proper installation, operation, and maintenance of your new car audio amplifier. Please read this manual thoroughly before use to ensure optimal performance and safety.
This amplifier is designed to enhance your in-car audio experience with powerful and clear sound. Its robust construction ensures stable operation and efficient heat dissipation.

Product Overview

Key Features

- **High-precision metal casing:** Features a streamlined protection structure for improved thermal conductivity and high-quality heat dissipation, ensuring stable, long-term, high-power operation.
- **High-density pure copper circulation:** Utilizes a three-color large circulation design for smaller size and higher power, allowing for more reasonable adjustments to power demands and ensuring safe, efficient, continuous, and stable operation.
- **Integrated Protection:** Equipped with short circuit, overload, and overheat protection mechanisms for enhanced safety and durability.
- **Efficient Heat Dissipation:** Features all-aluminum pits for superior heat management.

Specifications

Specification	Value
Name	Car Amplifier
Channel	4
Material	Metal
Color	Black

Specification	Value
Size	32 x 24 x 4.5 cm (12.6 x 9.45 x 1.77 inches)
Voltage	12V DC
Input Resistance	4Ω
Input Sensitivity	92dB
High Pass Frequency	32-2KHz
Low Pass Frequency	32-300Hz
Peak Power	5800W
Rated Power	4 * 120W
Mounting Type	Surface Mount

Installation and Setup

Proper installation is crucial for the performance and longevity of your amplifier. It is recommended that installation be performed by a qualified professional.

Package Contents

- 1 x YaeCCC 5800W 4 Channel Car Amplifier

Mounting Location

Choose a mounting location that is dry, well-ventilated, and away from direct sunlight or heat sources. Ensure there is sufficient space around the amplifier for air circulation. Common locations include under a seat, in the trunk, or mounted to a rear seat back.

Wiring Diagram and Connections

Refer to the diagrams below for proper wiring connections. Always disconnect the vehicle's battery before making any electrical connections.



Figure 1: Top and rear view of the amplifier, illustrating the layout of input and output terminals. This image shows the overall design and connection points.



Figure 2: Close-up of the amplifier's connection panel, clearly labeling the Power (GND, REM, +12V), Fuse, Front Speaker, and Rear Speaker terminals.

1. **Power Connection:**
    - Connect the **+12V** terminal to the positive (+) terminal of the car battery using a heavy-gauge power cable with an inline fuse (not included).
    - Connect the **GND** terminal to a clean, unpainted metal surface on the vehicle's chassis, ensuring a solid ground connection.
    - Connect the **REM** (Remote) terminal to the remote turn-on output of your car stereo. This will turn the amplifier on and off with your stereo.
2. **Speaker Connections:**
    - Connect your speakers to the **FRONT SPEAKER** and **REAR SPEAKER** terminals. Ensure correct polarity (+ to + and - to -) for each speaker.
    - This amplifier supports 4 channels. For bridging, refer to the specific bridging instructions for your speaker

configuration.

3. **Audio Input:**
    - Connect the RCA audio cables from your car stereo's pre-amp outputs to the amplifier's **IN** (Input) RCA jacks.

Operating Instructions

Once installed, follow these steps to operate your amplifier:



Figure 3: Side panel of the amplifier displaying the various control knobs and RCA connections for audio input and output.

1. **Power On:** Ensure all connections are secure. Turn on your car stereo. The amplifier should power on automatically via the remote turn-on wire. The power indicator light will illuminate.
2. **Gain Adjustment:**
    - Start with the **GAIN** knobs set to minimum (fully counter-clockwise).

- Play a familiar piece of music through your car stereo at about 75% of its maximum volume.
- Slowly increase the amplifier's GAIN knobs (for both Front and Rear channels) until you hear slight distortion, then back off slightly. This sets the amplifier's input sensitivity to match your stereo's output.

3. **Crossover Settings (HPF/LPF):**
   - **HPF (High Pass Filter):** Use this for full-range speakers (e.g., door speakers) to block low frequencies that they cannot reproduce effectively. Adjust the HPF knob to filter out frequencies below a certain point (e.g., 80Hz-120Hz).
   - **LPF (Low Pass Filter):** Use this for subwoofers to allow only low frequencies to pass through. Adjust the LPF knob to filter out frequencies above a certain point (e.g., 80Hz-120Hz).
   - If using full-range speakers without a subwoofer, you may set the crossover to "FULL" or adjust HPF as needed.
4. **Fine Tuning:** Adjust your car stereo's equalizer and tone controls to achieve your desired sound quality. Make small adjustments to the amplifier's gain and crossover settings as needed.

Maintenance

To ensure the longevity and optimal performance of your YaeCCC amplifier, follow these maintenance guidelines:

- **Cleaning:** Regularly wipe the amplifier's exterior with a soft, dry cloth to remove dust and dirt. Do not use liquid cleaners or solvents.
- **Ventilation:** Ensure that the amplifier's heat sinks and ventilation fins are free from obstructions. Good airflow is essential for proper heat dissipation.
- **Connections:** Periodically check all wiring connections (power, ground, remote, speaker, RCA) to ensure they are secure and free from corrosion. Loose connections can lead to poor performance or damage.
- **Fuse Replacement:** If the amplifier does not power on, check the inline fuse on the +12V power cable and the fuse on the amplifier itself. Replace blown fuses only with fuses of the same type and rating.
- **Environmental Conditions:** Avoid exposing the amplifier to extreme temperatures, high humidity, or direct water contact.

Troubleshooting

If you experience issues with your amplifier, consult the following table before seeking professional assistance:

Problem	Possible Cause	Solution
No Power / Amplifier does not turn on	◦ Blown fuse (inline or on amplifier) ◦ Loose or incorrect power/ground/remote connection ◦ Car stereo not providing remote turn-on signal	◦ Check and replace fuses with correct rating. ◦ Verify all power, ground, and remote connections are secure and correctly wired. ◦ Check car stereo's remote output.

Problem	Possible Cause	Solution
No Sound Output	◦ Loose RCA input cables ◦ Incorrect speaker wiring or loose speaker connections ◦ Amplifier in protection mode (protection light on) ◦ Gain set too low	◦ Ensure RCA cables are securely connected to both stereo and amplifier. ◦ Check speaker wire connections for correct polarity and tightness. ◦ Check for short circuits in speaker wires or speakers. Allow amplifier to cool if overheated. ◦ Increase gain slowly.
Distorted Sound	◦ Gain set too high ◦ Poor ground connection ◦ Speaker impedance mismatch ◦ Damaged speakers	◦ Reduce gain setting. ◦ Ensure ground connection is clean and secure. ◦ Verify speaker impedance matches amplifier's capabilities. ◦ Test speakers with another amplifier if possible.
Amplifier Overheats	◦ Insufficient ventilation ◦ Improper impedance load (too low) ◦ Playing at high volume for extended periods	◦ Ensure amplifier has adequate airflow. Relocate if necessary. ◦ Check speaker impedance. Do not run below recommended minimum impedance. ◦ Reduce volume or take breaks to allow cooling.

Warranty and Support

YaeCCC is committed to providing high-quality products. For warranty information and customer support, please refer to the documentation included with your purchase or visit the official YaeCCC store online.
For further assistance, you may contact YaeCCC customer service through their official channels. Please have your product model number (a592cbe8-a094-488f-b50d-20b91adfdd40) and purchase details ready.
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