

AUNA 10001807

Auna W1-F-10000 Car Amplifier User Manual

Model: 10001807

1. INTRODUCTION

Thank you for choosing the Auna W1-F-10000 6-channel car amplifier. This powerful amplifier is designed to deliver high-quality audio performance for your vehicle's sound system. Featuring MOSFET technology and Super Bass Boost, it provides a maximum power output of 10,000 watts, ensuring a rich and dynamic audio experience. This manual provides detailed instructions for proper installation, operation, and maintenance to ensure optimal performance and longevity of your amplifier.

2. SAFETY INSTRUCTIONS

Please read all safety instructions carefully before installing and operating the amplifier. Failure to follow these instructions may result in injury or damage to the unit or vehicle.

- Always disconnect the vehicle's battery negative terminal before starting any installation work.
- Ensure proper grounding of the amplifier to the vehicle's chassis.
- Use appropriate gauge wiring for power, ground, and speaker connections as specified in this manual.
- Do not mount the amplifier in areas exposed to direct sunlight, excessive heat, moisture, or dust.
- Protect all wiring from sharp edges and moving parts.
- Never operate the amplifier with damaged wiring.
- Seek professional assistance if you are unsure about any installation or wiring procedures.

3. PRODUCT FEATURES

- 6-channel bridgeable car amplifier
- Maximum power output: 10,000 Watts
- MOSFET technology for stable power delivery
- Adjustable High-Pass Filter (HPF) and Low-Pass Filter (LPF)
- Super Bass Boost function for enhanced low-frequency response
- Overload, overheat, and short-circuit protection
- Robust chassis design for durability



Figure 3.1: Top view of the Auna W1-F-10000 amplifier, showcasing its internal components through a transparent panel. The image highlights the intricate circuitry, large capacitors, and toroidal transformers, along with the "10000 WATTS" power rating visible on the circuit board. This view emphasizes the amplifier's robust internal design.

4. PACKAGE CONTENTS

Please check the package for the following items:

- Auna W1-F-10000 Car Amplifier
- Mounting Screws
- User Manual (this document)
- (Optional: Remote Bass Control Knob, if included with your model)

5. CONTROLS AND CONNECTIONS

Familiarize yourself with the various inputs, outputs, and controls on your amplifier before installation.

5.1. Rear Panel - Power and Speaker Terminals



Figure 5.1: Rear panel of the amplifier, displaying the power input terminals (+BATT, REM, GND), fuse holders, and six speaker output terminals (CH1-CH6). The speaker terminals are clearly labeled for both positive and negative connections, with bridging options indicated.

for channels 1-2 and 5-6.

1. **+BATT (Power Input):** Connect to the positive terminal of the vehicle's battery via an inline fuse.
2. **REM (Remote Turn-On):** Connect to the remote output of your head unit.
3. **GND (Ground Input):** Connect to a solid, unpainted metal point on the vehicle's chassis.
4. **FUSE:** Integrated fuse holders for protection.
5. **SPEAKER OUT (CH1-CH6):** Terminals for connecting speakers. Supports bridged mode for higher power output to subwoofers.

5.2. Rear Panel - Audio Inputs and Controls



Figure 5.2: Rear panel of the amplifier, showing the RCA audio input jacks (AUDIO IN CH1-CH6) and various control knobs. These include Gain controls for each channel pair, High-Pass Filter (HPF) and Low-Pass Filter (LPF) frequency adjustments, and a Super Bass X-OVER control. Indicator lights for Power and Protection are also visible.

1. **POWER/PROTECTION Indicators:** LEDs indicating amplifier status.
2. **HPF (High-Pass Filter):** Adjusts the cutoff frequency for high-pass filtering.
3. **GAIN:** Adjusts the input sensitivity of the amplifier to match the output of your head unit.
4. **LPF (Low-Pass Filter):** Adjusts the cutoff frequency for low-pass filtering.
5. **AUDIO IN (RCA):** RCA input jacks for connecting to your head unit's pre-outs.
6. **SUPER BASS X-OVER:** Control for the Super Bass Boost function.

6. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. It is recommended to have this amplifier installed by a qualified professional.

6.1. Mounting Location

Choose a mounting location that is:

- Well-ventilated to prevent overheating.
- Protected from moisture and direct sunlight.
- Securely fastened to a solid surface.
- Away from vehicle's electronic control units (ECUs) to prevent interference.

6.2. Wiring Diagram (General)

Below is a general wiring guide. Always refer to your head unit's manual for specific connections.

1. **Power Wire (+BATT):** Run a heavy gauge power cable (e.g., 4 AWG or 0 AWG depending on total system power) directly from the positive terminal of the vehicle's battery. Install an inline fuse holder within 18 inches (45 cm) of the battery.
2. **Ground Wire (GND):** Use a heavy gauge wire of the same size as the power wire. Connect it to a clean, unpainted

metal surface on the vehicle's chassis. Ensure a good electrical connection.

- 3. **Remote Turn-On Wire (REM):** Connect a smaller gauge wire (e.g., 18 AWG) from the amplifier's REM terminal to the remote output of your head unit. This wire turns the amplifier on and off with your head unit.
- 4. **RCA Audio Cables:** Connect RCA cables from your head unit's pre-out jacks to the amplifier's AUDIO IN jacks.
- 5. **Speaker Wires:** Connect your speakers to the amplifier's SPEAKER OUT terminals. Ensure correct polarity (+ to + and - to -). For bridged operation, refer to the specific bridging instructions for channels 1-2 and 5-6.

Note: For detailed wiring configurations (e.g., 2-channel, 4-channel, 6-channel, or bridged setups), consult a professional installer or specific car audio resources.

7. OPERATING INSTRUCTIONS

Once installed, follow these steps to operate your amplifier:

- 1. **Initial Power On:** After all connections are secure, reconnect the vehicle's battery. Turn on your head unit. The amplifier's POWER indicator should illuminate. If the PROTECTION indicator lights up, refer to the Troubleshooting section.
- 2. **Gain Adjustment:**
 - Set all amplifier gain controls to minimum.
 - Set your head unit's volume to about 75% of its maximum.
 - Slowly increase the amplifier's gain control until you hear distortion, then back off slightly until the sound is clear.
- 3. **Crossover Settings (HPF/LPF):**
 - **HPF (High-Pass Filter):** Use for full-range speakers or tweeters to block low frequencies. Adjust to prevent distortion at high volumes.
 - **LPF (Low-Pass Filter):** Use for subwoofers to block high frequencies. Adjust to blend smoothly with your main speakers.
- 4. **Super Bass Boost:** Adjust this control to enhance low-frequency output. Use sparingly to avoid distortion and potential speaker damage.

8. MAINTENANCE

Regular maintenance ensures the longevity and performance of your amplifier.

- **Cleaning:** Use a soft, dry cloth to wipe the amplifier's exterior. Do not use harsh chemicals or abrasive cleaners.
- **Ventilation:** Ensure that the amplifier's cooling fins are free from dust and debris. Periodically check for obstructions around the amplifier.
- **Connections:** Periodically check all wiring connections for tightness and corrosion. Loose connections can lead to poor performance or damage.
- **Fuses:** If a fuse blows, replace it only with a fuse of the same type and rating. Never use a higher rated fuse.

9. TROUBLESHOOTING

If you experience issues with your amplifier, refer to the table below before contacting support.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No Power / Amplifier does not turn on	Blown fuse; Loose power/ground/remote connection; Faulty head unit remote output.	Check and replace fuses; Verify all power, ground, and remote wire connections are secure and properly terminated; Test head unit remote output.
Protection LED is on	Short circuit in speaker wiring; Overheating; Low voltage; Internal fault.	Check speaker wires for shorts to chassis or between positive/negative; Ensure proper ventilation; Check battery voltage; If problem persists, seek professional service.
No Sound Output	No input signal; Incorrect gain setting; Muted head unit; Faulty RCA cables; Speaker wires disconnected.	Verify head unit is on and playing audio; Adjust gain; Check head unit volume/mute; Test RCA cables; Reconnect speaker wires.
Distorted Sound	Gain set too high; Incorrect crossover settings; Speaker impedance mismatch; Damaged speakers.	Reduce gain; Adjust HPF/LPF settings; Verify speaker impedance matches amplifier's capabilities; Inspect speakers for damage.

10. SPECIFICATIONS

Technical specifications for the Auna W1-F-10000 Car Amplifier.

Feature	Specification
Model Number	10001807
Channels	6
Max Power Output	10,000 Watts
Technology	MOSFET
Filters	Adjustable High-Pass Filter (HPF), Low-Pass Filter (LPF)
Bass Boost	Super Bass Boost
Protection Features	Overload, Overheat, Short-circuit
Color	Black

11. WARRANTY AND SUPPORT

Auna products are designed for reliability and performance. For warranty information and technical support, please refer to the official Auna website or contact your local dealer.
For further assistance, you may visit the official Auna store:[Auna Official Store](#)



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