Audiopipe APMN-1500

Audiopipe APMN-1500 Class D Monoblock Amplifier User Manual

Model: APMN-1500

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Audiopipe APMN-1500 Class D Monoblock Amplifier. Please read this manual thoroughly before attempting installation or operation to ensure proper use and optimal performance.

Image: Front view of the Audiopipe APMN-1500 amplifier, showcasing its sleek design and the included remote bass knob.

2. Safety Information

Always observe the following safety precautions during installation and operation:

- Disconnect the vehicle's negative battery terminal before starting any electrical work.
- Ensure all wiring is properly routed and secured to prevent damage or short circuits.
- Use appropriate gauge wiring for power and ground connections as specified in the installation section.
- Install the amplifier in a location that allows for adequate ventilation to prevent overheating.
- Avoid mounting the amplifier in areas exposed to moisture or excessive vibration.
- If you are unsure about any part of the installation process, consult a professional car audio installer.

3. Package Contents

Verify that all items are present in the package:

- Audiopipe APMN-1500 Class D Monoblock Amplifier
- Remote Bass Knob with Cable
- Inline Fuse Holder (if not integrated) and Fuse
- Mounting Hardware (screws)
- User Manual (this document)

4. Features

The Audiopipe APMN-1500 amplifier is designed to deliver powerful and clear bass performance for your car audio system. Key features include:

- Class D Monoblock Design for high efficiency and power output.
- Adjustable Low Pass Filter (LPF) for precise frequency control.
- Adjustable Subsonic Filter to protect subwoofers from ultra-low frequencies.
- Variable Bass Boost for enhanced low-frequency response.
- Remote Bass Knob for convenient level control.
- Protection Circuitry against thermal overload, short circuits, and over/under voltage.

5. Setup & Installation

5.1 Mounting the Amplifier

Choose a secure, dry location with sufficient airflow. Common mounting locations include the trunk, under a seat, or behind a rear seat. Ensure the amplifier is mounted firmly to prevent movement during vehicle operation.

- Mark the mounting holes using the amplifier as a template.
- Drill pilot holes if necessary, ensuring no wires or fuel lines are damaged.
- Secure the amplifier using the provided mounting screws.

5.2 Wiring Connections

Refer to the diagrams below for proper wiring. All connections must be secure and insulated.

Power and Speaker Terminals

Image: Rear view of the Audiopipe APMN-1500 amplifier, showing the power input terminals (+12V, REM, GND) and speaker output terminals.

1. **+12V (Power):** Connect to the positive terminal of the car battery via an appropriate gauge power cable and an inline fuse (not more than 18 inches from the battery). Car audio systems typically operate on a 12V DC supply.
2. **REM (Remote Turn-On):** Connect to the remote output of your head unit. This turns the amplifier on and off with your car stereo.
3. **GND (Ground):** Connect to a clean, unpainted metal surface of the vehicle chassis. Ensure a good electrical connection.
4. **SPEAKER:** Connect your subwoofer(s) to these terminals. Observe correct polarity (+ to + and - to -).

Input and Control Panel

Image: Top view of the Audiopipe APMN-1500 amplifier, displaying the RCA inputs, bridge connections, and various control knobs.

1. **INPUT (RCA):** Connect to the RCA pre-out of your head unit.
2. **REMOTE:** Connect the remote bass knob cable here.
3. **BRIDGE IN/OUT:** Used for linking multiple amplifiers (consult a professional for advanced configurations).
4. **PROTECT/POWER Indicators:** LEDs indicating amplifier status.

6. Operating Instructions

Once installed, adjust the amplifier settings for optimal sound performance.

6.1 Control Panel Adjustments

The control panel features several adjustable settings:

- **GAIN (Input Level):** Adjust this to match the output voltage of your head unit. Start with the gain at minimum and slowly increase it until you hear distortion, then back off slightly. Do not use the gain control as a volume knob.
- **LPF (Low Pass Filter):** This filter allows only frequencies below the set point to pass through to the

subwoofer. Adjust between 40Hz and 180Hz. A common setting for subwoofers is around 80-100Hz.

- **SUBSONIC Filter:** This filter removes ultra-low frequencies that are inaudible and can damage subwoofers. Adjust between OFF and 50Hz. Set it slightly below your enclosure's tuning frequency.
- **BASS BOOST FREQ:** Selects the center frequency for the bass boost.
- **BASS BOOST:** Increases the output level at the selected bass boost frequency (0dB to 12dB). Use sparingly to avoid distortion and potential speaker damage.

6.2 Remote Bass Knob

The remote bass knob provides convenient control over the subwoofer output level from the driver's seat. It adjusts the overall output of the amplifier, allowing you to fine-tune the bass intensity without accessing the amplifier directly.

7. Maintenance

To ensure the longevity and optimal performance of your amplifier:

- Keep the amplifier clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Periodically check all wiring connections to ensure they are secure and free from corrosion.
- Ensure adequate ventilation around the amplifier to prevent overheating.
- Avoid spilling liquids on the amplifier.

8. Troubleshooting

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

Problem	Possible Cause	Solution
No Power / No Sound	Blown fuse, loose power/ground/remote wire, faulty head unit.	Check amplifier fuse and inline fuse. Verify all power, ground, and remote connections. Ensure head unit is on and sending a remote signal.
Amplifier in Protection Mode (PROTECT LED on)	Overheating, short circuit in speaker wiring, impedance too low.	Allow amplifier to cool down. Check speaker wiring for shorts. Verify speaker impedance matches amplifier's capabilities.
Distorted Sound	Gain set too high, improper LPF/Bass Boost settings, poor ground connection.	Reduce gain. Adjust LPF and Bass Boost settings. Check ground connection for cleanliness and security.
No Bass Knob Functionality	Loose or damaged bass knob cable, faulty bass knob.	Check the connection of the bass knob cable to both the amplifier and the knob itself. Inspect the cable for damage.

9. Specifications

Technical specifications for the Audiopipe APMN-1500 amplifier:

Feature	Specification
Model Number	APMN-1500
Output Power	1500 Watts
Number of Channels	1 (Monoblock)
Amplifier Class	Class D
Dimensions (L x W x H)	17 x 8.5 x 4 inches
Item Weight	8.6 pounds
Material	Aluminum, Silicon
Mounting Type	Surface Mount
Voltage	5 Volts *(Note: Car audio systems typically operate on 12V DC. Please ensure your power supply is compatible.)*
UPC	784644418000

10. Warranty and Support

Audiopipe products are designed for reliability and performance. For warranty information, technical support, or service inquiries, please refer to the official Audiopipe website or contact your authorized dealer. Keep your purchase receipt as proof of purchase for warranty claims.
For further assistance, visit the Audiopipe Store on Amazon.