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› Audiopipe Class D Monoblock Amplifier 1500W User Manual

Audiopipe APCLE-15001D

Audiopipe Class D Monoblock Amplifier 1500W User Manual

Model: APCLE-15001D

Brand: Audiopipe

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Audiopipe Class D Monoblock Amplifier 1500W, Model APCLE-15001D. This amplifier is designed to deliver high-quality audio performance for car audio systems. Please read this manual thoroughly before installation and use to ensure proper function and safety.

SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the amplifier or vehicle:

- Ensure the vehicle's battery is disconnected before beginning any installation work.
- Use appropriate wire gauges for power, ground, and speaker connections as specified in the installation section.
- Mount the amplifier securely in a location that allows for adequate ventilation and is protected from moisture and excessive heat.
- Do not operate the amplifier if it is damaged or malfunctioning.
- Consult a professional car audio installer if you are unsure about any aspect of the installation process.

PACKAGE CONTENTS

Verify that all items are present in the package:

- (1) Audiopipe 1500W 1 Ohm Class D Monoblock Car Audio Digital Amplifier (Model: APCLE-15001D)
- User Manual (this document)
- Mounting Hardware (if included, check packaging)

PRODUCT FEATURES

The Audiopipe APCLE-15001D amplifier offers the following key features:

- **1500 Watts:** High power output for robust audio performance.
- **1 Channel Class D:** Efficient monoblock design for subwoofer applications.
- **Power Output:**
 - 1 Channel @ 4 Ω - 600W
 - 1 Channel @ 2 Ω - 950W
 - 1 Channel @ 1 Ω - 1500W
- **Signal to Noise Ratio:** >70dB for clear audio.
- **Frequency Response:** 8Hz ~ 180KHz for a wide range of audio reproduction.
- **Full MOSFET Circuit Design:** Provides massive power without distortion.
- **Aluminum Material:** Durable construction for longevity.

SPECIFICATIONS

Specification	Value
Model Number	APCLE-15001D
Brand	Audiopipe
Output Power	1500 Watts (Max)
Number of Channels	1 (Monoblock)
Amplifier Class	Class D
Signal to Noise Ratio	>70dB
Frequency Response	8Hz ~ 180KHz
Voltage	16 Volts (Max Supply 5 Volts)
Dimensions (L x W x H)	14 x 7 x 2.2 inches
Item Weight	10.34 pounds
Material	Aluminum
Color	Black
Mounting Type	Surface Mount

SETUP AND INSTALLATION

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

Mounting the Amplifier

Choose a mounting location that is dry, well-ventilated, and secure. Avoid mounting the amplifier directly on carpet or in

enclosed spaces without airflow. Ensure there is sufficient space around the amplifier for heat dissipation.



Image: Audiopipe 1500W Monoblock Amplifier installed in a vehicle trunk, demonstrating a typical mounting and wiring setup.

Wiring Connections

Refer to the diagram below for proper wiring connections. Use high-quality power, ground, and speaker cables of appropriate gauge to handle the amplifier's power output. Ensure all connections are secure and properly insulated.



Image: Rear view of the amplifier, highlighting the power, ground, remote, RCA input/output, and speaker terminals for connection.

- **Power (B+):** Connect to the positive terminal of the vehicle's battery via an inline fuse (not included, but essential).
- **Ground (GND):** Connect to a clean, unpainted metal surface on the vehicle chassis.
- **Remote (REM):** Connect to the remote turn-on lead from your head unit.
- **RCA Inputs (INPUT):** Connect to the RCA outputs of your head unit or signal processor.
- **Speaker Outputs (SPEAKER):** Connect to your subwoofer(s). Ensure correct polarity and impedance matching (1 Ohm minimum).

OPERATING INSTRUCTIONS

Once installed, follow these steps to operate your amplifier:

1. **Initial Power-Up:** After all connections are made and checked, reconnect the vehicle's battery. The amplifier's power indicator should illuminate.
2. **Gain Adjustment:** Start with the gain control at minimum. Gradually increase the gain until the desired volume is achieved without distortion. Avoid setting the gain too high, as this can lead to clipping and damage to speakers or the amplifier.
3. **LPF (Low Pass Filter) Adjustment:** Adjust the LPF frequency (40Hz-180Hz) to control the upper frequency limit of the audio signal sent to the subwoofer. This helps blend the subwoofer with your main speakers.
4. **Subsonic Filter Adjustment:** The subsonic filter (OFF-50Hz) helps protect your subwoofer by filtering out

extremely low frequencies that are below the audible range or the subwoofer's safe operating range.

5. **Bass Boost Adjustment:** Use the Bass Boost (0dB-12dB) and Bass Boost Frequency (30Hz-80Hz) controls to enhance bass output at a specific frequency. Use sparingly to avoid distortion and potential damage.



Image: Top-down view of the amplifier's control panel, illustrating the various adjustment knobs for fine-tuning audio output.

MAINTENANCE

Regular maintenance helps ensure the longevity and performance of your amplifier:

- **Cleaning:** Periodically clean the amplifier's exterior with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Ventilation:** Ensure that the amplifier's cooling fins and ventilation openings are free from dust and debris. Blocked vents can lead to overheating.
- **Connections:** Occasionally check all wiring connections for tightness and corrosion. Loose connections can cause poor performance or damage.
- **Environment:** Protect the amplifier from extreme temperatures, direct sunlight, and moisture.

TROUBLESHOOTING

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

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No Power / Amplifier Not Turning On	Blown fuse, loose power/ground/remote wire, faulty head unit remote output.	Check inline fuse and amplifier fuses. Verify all power, ground, and remote connections are secure. Test remote wire for 12V when head unit is on.
No Audio Output	Loose RCA cables, incorrect gain setting, speaker wires disconnected, amplifier in protect mode.	Ensure RCA cables are securely connected. Adjust gain. Check speaker wire connections and polarity. If in protect mode, check for short circuits or overheating.
Distorted Sound	Gain set too high, incorrect LPF/subsonic settings, poor ground connection, speaker impedance mismatch.	Reduce gain. Adjust LPF/subsonic filters. Verify ground connection is clean and secure. Ensure speaker impedance matches amplifier's capabilities (1 Ohm minimum).
Amplifier Overheating	Insufficient ventilation, impedance too low, prolonged high volume use.	Ensure adequate airflow around the amplifier. Check speaker impedance. Reduce volume or allow amplifier to cool down.

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the warranty card included with your product or visit the official Audiopipe website. Keep your purchase receipt as proof of purchase for any warranty claims.

For additional assistance, you may contact Audiopipe customer service through their official channels. Always provide your product model number (APCLE-15001D) and serial number when seeking support.