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Audiobahn DUB1101D

DUB Class D Amplifier 1CH 3200W DUB1101D User Manual

Model: DUB1101D | Brand: Audiobahn

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1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Audiobahn DUB Class D Amplifier 1CH 3200W, model DUB1101D. Please read this manual thoroughly before using the product to ensure proper function and safety. This amplifier is designed to deliver powerful bass performance for high-performance in-car audio systems.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the amplifier and connected components:

- **Professional Installation Recommended:** Installation of car audio equipment can be complex. It is highly recommended that installation be performed by a qualified professional.
- **Disconnect Battery:** Before beginning any wiring, always disconnect the vehicle's negative battery terminal to prevent electrical shorts.
- **Proper Wiring:** Ensure all wiring is correctly connected and insulated to prevent short circuits and electrical hazards. Use appropriate gauge wires for power and ground connections.
- **Ventilation:** Mount the amplifier in a location that allows for adequate air circulation to prevent overheating. Do not cover the amplifier's heat sinks.
- **Fuse Protection:** Always use the recommended fuse type (40A x 3) for the amplifier's power input. Do not bypass or use fuses with higher ratings.
- **Avoid Moisture:** Do not expose the amplifier to water or excessive moisture.
- **Secure Mounting:** Securely mount the amplifier to prevent it from becoming a projectile in the event of a sudden stop or collision.
- **Volume Levels:** Prolonged exposure to high volume levels can cause hearing damage. Adjust volume to a safe and comfortable level.

3. WHAT'S IN THE BOX

Upon opening the package, verify that all the following items are included:

- 1 x Audiobahn DUB1101D 1 Channel Class D Amplifier
- 1 x Remote Control (for bass level adjustment)
- 1 x User Manual (this document)

4. PRODUCT OVERVIEW

The Audiobahn DUB1101D is a high-performance Class D monoblock amplifier designed for powerful bass reproduction. Its compact design and efficient Class D topology make it suitable for various car audio installations.



Image: Front view of the Audiobahn DUB1101D Class D Amplifier, showcasing its black finish, DUB logo, model number, and connection terminals.

Key Features:

- High-efficiency Class D topology for powerful output with minimal heat.
- Stable operation at 1 Ohm for maximum power delivery.
- Adjustable input sensitivity (0.2-6V) for compatibility with various head units.
- Built-in protection circuits for thermal, overload, and short-circuit conditions.
- Compact dimensions for flexible installation options.

5. SETUP & INSTALLATION

Proper installation is crucial for optimal performance and safety. Follow these steps carefully:

5.1 Mounting Location:

- Choose a dry, well-ventilated location away from direct sunlight and heat sources.
- Ensure sufficient space around the amplifier for air circulation, especially around the heat sinks.
- Mount the amplifier securely to a solid surface using appropriate hardware to prevent movement.

5.2 Wiring Connections:

Before making any connections, disconnect the vehicle's negative battery terminal.

1. **Power (B+):** Run a heavy-gauge power cable (e.g., 4-gauge or larger) directly from the positive terminal of the vehicle's battery to the amplifier's B+ terminal. Install an inline fuse holder (with the recommended 40A x 3 fuse) as close to the battery as possible (within 18 inches).
2. **Ground (GND):** Connect a heavy-gauge ground cable of the same length as the power cable from the amplifier's GND terminal to a clean, unpainted metal surface on the vehicle's chassis. Ensure a solid, low-resistance connection.
3. **Remote Turn-On (REM):** Connect a remote turn-on wire from your head unit's remote output to the amplifier's REM terminal. This wire turns the amplifier on and off with your head unit.
4. **RCA Input:** Connect RCA cables from your head unit's subwoofer or full-range pre-out to the amplifier's RCA input jacks.
5. **Speaker Output:** Connect your subwoofer(s) to the amplifier's speaker output terminals. Pay close attention to polarity (+ to + and - to -). Ensure the total impedance of your speakers matches the amplifier's stable operating impedance (1 Ohm, 2 Ohm, or 4 Ohm).
6. **Remote Bass Control:** Connect the included remote bass control to the designated port on the amplifier.

Once all connections are made, re-connect the vehicle's negative battery terminal.

6. OPERATING INSTRUCTIONS

After successful installation, follow these steps to operate your amplifier:

1. **Power On:** Turn on your vehicle's ignition and head unit. The amplifier's power indicator light should illuminate.
2. **Gain Adjustment:**
 - Set the amplifier's gain control to its minimum (fully counter-clockwise) position.
 - Play a familiar piece of music with strong bass at about 75% of your head unit's maximum volume.
 - Slowly increase the amplifier's gain control until you hear distortion, then back it off slightly until the sound is

clean. This sets the amplifier's input sensitivity to match your head unit's output.

3. **Crossover Settings:** The DUB1101D typically features a low-pass filter (LPF) for subwoofer applications. Adjust the LPF frequency to blend smoothly with your other speakers. A common starting point is 80-100 Hz.
4. **Bass Boost:** Use the bass boost control sparingly, if at all. Excessive bass boost can lead to distortion and potential damage to your speakers or amplifier.
5. **Remote Bass Control:** Use the wired remote control to conveniently adjust the subwoofer's output level from your listening position.

7. MAINTENANCE

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

- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Ventilation:** Ensure the amplifier's heat sinks remain free of dust and debris. Use compressed air to gently clear any blockages.
- **Connections:** Occasionally check all wiring connections for tightness and corrosion. Loose connections can lead to poor performance or damage.
- **Fuse Replacement:** If a fuse blows, replace it only with a fuse of the exact same type and rating (40A x 3). A blown fuse often indicates an underlying issue that should be investigated.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No Power / Power LED Off	Blown fuse; Loose power/ground connection; No remote turn-on signal.	Check and replace fuses; Verify all power, ground, and remote connections are secure; Check head unit's remote output.
No Sound Output	RCA cables disconnected/damaged; Speaker wires disconnected/shorted; Amplifier in protection mode; Gain set too low.	Check RCA connections; Inspect speaker wiring for shorts or breaks; Turn off and restart amplifier; Adjust gain setting.
Distorted Sound	Gain set too high; Speaker impedance mismatch; Damaged speakers.	Reduce gain; Verify speaker impedance is compatible; Test speakers with another amplifier.
Amplifier Overheating / Protection Mode	Insufficient ventilation; Speaker impedance too low; Prolonged high volume.	Ensure proper airflow around amplifier; Check speaker impedance; Reduce volume or allow amplifier to cool.

If the problem persists after attempting these solutions, contact Audiobahn customer support or a qualified car audio technician.

9. SPECIFICATIONS

Technical specifications for the Audiobahn DUB1101D Class D Amplifier:

Feature	Value
Model Number	DUB1101D
Output Power 4Ω (Watts)	490W x 1CH
Output Power 2Ω (Watts)	730W x 1CH
Output Power 1Ω (Watts)	1100W x 1CH
THD	<0.2%
Frequency Response (±1dB)	50Hz-250KHz
Signal-to-noise ratio	>85dB
Sensitivity	0.2-6V
Recommended Fuse Type	40A x 3
Dimensions (L x W x H)	230 x 211 x 56 mm (9.06 x 8.31 x 2.20 inches)
Product Dimensions (Packaged)	13.39 x 9.45 x 3.35 inches; 4.85 Pounds
Voltage	6 Volts (DC)
Maximum Supply Voltage	12 Volts
Mounting Type	Through-Hole Mount

10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your Audiobahn DUB1101D amplifier, please contact Audiobahn customer service directly. Refer to the official Audiobahn website or your purchase documentation for specific warranty terms and contact details.

When contacting support, please have your product model number (DUB1101D) and purchase date readily available.