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PIONEER GM-D9701

Pioneer GM-D9701 Class D Mono Amplifier Instruction Manual

Model: GM-D9701

1. INTRODUCTION

Thank you for purchasing the Pioneer GM-D9701 Class D Mono Amplifier. This amplifier is designed to provide high-quality audio performance for your vehicle's sound system. This manual provides essential information for proper installation, operation, and maintenance of your amplifier. Please read this manual thoroughly before use to ensure optimal performance and safety.

2. SAFETY INFORMATION

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

- **Power Supply:** Connect the amplifier only to a 12V DC negative ground electrical system.
- **Wiring:** Ensure all wiring is securely connected and properly insulated to prevent short circuits. Use appropriate gauge wires for power and ground connections.
- **Fuses:** Always replace fuses with new ones of the specified rating. Using an incorrect fuse can cause damage or fire.
- **Mounting:** Mount the amplifier securely in a location that does not obstruct vehicle operation or safety devices. Avoid mounting in areas exposed to direct sunlight, high temperatures, or excessive moisture.
- **Volume Levels:** Prolonged exposure to high volume levels can cause hearing damage. Adjust volume to a safe level.
- **Professional Installation:** If you are unsure about any installation steps, consult a qualified professional installer.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Pioneer GM-D9701 Class D Mono Amplifier
- Owner's Manual
- Installation Hardware (screws, etc.)
- Bass Boost Remote Control Unit with Cable
- RCA Cable (for high-level input adapter)

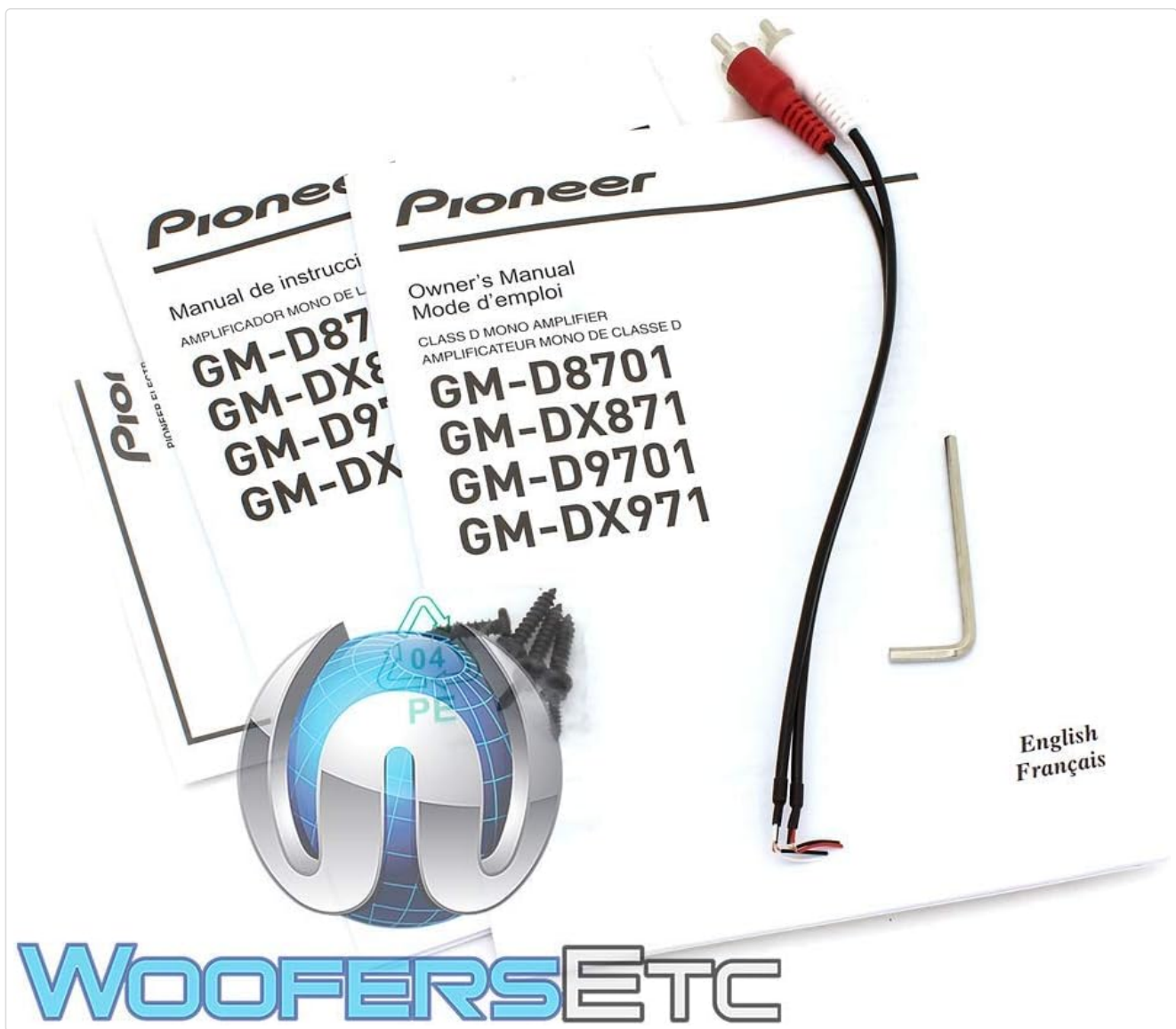


Image: Contents of the Pioneer GM-D9701 amplifier package, showing the owner's manual, remote control, and necessary cables.

4. SETUP

4.1. Installation

Choose a mounting location that is dry, well-ventilated, and away from direct heat sources. Ensure sufficient space around the amplifier for proper heat dissipation. Secure the amplifier firmly using the provided screws to prevent movement during vehicle operation.

4.2. Wiring Connections

Before making any connections, disconnect the vehicle's negative battery terminal to prevent short circuits.



Image: Rear panel of the GM-D9701 amplifier, illustrating the various input and control connections.

- **Power Connection:** Connect a heavy-gauge power cable (e.g., 4-gauge) directly from the positive (+) terminal of the car battery to the amplifier's POWER terminal. Install an appropriate fuse holder with a fuse (e.g., 150A) within 18 inches of the battery.
- **Ground Connection:** Connect a heavy-gauge ground cable (e.g., 4-gauge) from the amplifier's GROUND terminal to a clean, unpainted metal point on the vehicle chassis. Ensure a good electrical contact.
- **Remote Turn-On Connection (S.CONTROL):** Connect a remote turn-on wire from your head unit's remote output to the amplifier's S.CONTROL terminal. This wire turns the amplifier on and off with your head unit.



Image: Detailed view of the power, ground, and remote control terminals, along with the three 40A fuses.

- **Input Connection (RCA):** Connect RCA cables from your head unit's subwoofer or pre-amp output to the amplifier's INPUT (L/R) terminals. If your head unit does not have RCA outputs, use the provided high-level input adapter.



Image: Close-up of the RCA input and output connections, along with the gain adjustment knob.

- **Speaker Output:** Connect your subwoofer(s) to the amplifier's SPEAKER OUTPUT terminals. Ensure correct polarity

(+ to + and - to -). The GM-D9701 is a mono amplifier, designed for a single subwoofer or multiple subwoofers wired to a compatible impedance (1 Ohm, 2 Ohm, or 4 Ohm).



Image: Detailed view of the speaker output terminals on the GM-D9701 amplifier.

5. OPERATING

5.1. Controls and Adjustments

The GM-D9701 features several controls to fine-tune your audio output:



Image: Detailed view of the gain, frequency (FREQ), and bass boost remote connection on the amplifier.

- **GAIN Control:** This knob adjusts the input sensitivity of the amplifier to match the output level of your head unit. Start with the gain set to minimum (0.2V) and slowly increase it until the sound is clear and distortion-free at your desired maximum volume. Avoid setting the gain too high, as this can cause distortion and damage to speakers. The range is from 0.2V to 6.5V.
- **FREQ (Crossover) Control:** This knob adjusts the low-pass filter (LPF) frequency. The LPF allows only frequencies below the set point to pass through to the subwoofer, preventing higher frequencies from reaching it. Adjust this to blend the subwoofer's output seamlessly with your main speakers. The range is from 40 Hz to 240 Hz.
- **BASS BOOST REMOTE:** This port is for connecting the included wired remote control.



Image: The wired remote control unit for bass boost adjustment.

- **Bass Boost Remote Control:** This remote allows you to adjust the bass boost level from the driver's seat. Use it to enhance low-frequency response as desired.

6. MAINTENANCE

The Pioneer GM-D9701 amplifier requires minimal maintenance. Follow these guidelines to ensure longevity:

- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Ventilation:** Ensure that the amplifier's cooling fins are free from dust and debris to maintain proper airflow and prevent overheating.
- **Connections:** Occasionally check all wiring connections for tightness and corrosion. Loose connections can lead to poor performance or damage.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No Power / Amplifier does not turn on	Blown fuse; Loose power/ground/remote wire; No remote signal from head unit; Vehicle battery low.	Check and replace fuses; Verify all power, ground, and remote connections; Check head unit remote output; Charge or replace vehicle battery.
No Sound Output	Loose RCA or speaker connections; Incorrect gain setting; Head unit volume too low; Amplifier in protection mode.	Check all RCA and speaker wiring; Adjust gain; Increase head unit volume; Check for overheating or short circuits.
Distorted Sound	Gain set too high; Incorrect crossover setting; Speaker impedance mismatch; Damaged speaker.	Reduce gain; Adjust FREQ (crossover) setting; Verify speaker impedance is compatible (1-4 Ohms); Inspect speakers for damage.
Amplifier Overheats	Insufficient ventilation; Speaker impedance too low; Prolonged high volume use.	Ensure proper airflow around amplifier; Verify speaker impedance; Reduce volume or allow amplifier to cool.

If the problem persists after checking these points, consult your dealer or a qualified service technician.

8. SPECIFICATIONS

Technical specifications for the Pioneer GM-D9701 Class D Mono Amplifier:

- **Output Power:** 2400 Watts (Max)
- **RMS Power Output:**
 - 500W RMS x 1 @ 4Ω
 - 800W RMS x 1 @ 2Ω
 - 1200W RMS x 1 @ 1Ω
- **Frequency Response:** 10 Hz – 240 kHz

- **Signal-to-Noise Ratio:** 100 dB
- **Number of Channels:** 1 (Mono)
- **Voltage:** 16 Volts (Operating)
- **Item Dimensions (L x W x H):** 4.33 x 12.99 x 12.99 inches
- **Item Weight:** 7.89 pounds
- **Fuses:** 3 x 40A (120A total)
- **Mounting Type:** Surface Mount
- **Specification Met:** FCC

9. WARRANTY AND SUPPORT

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

Pioneer Customer Support: www.pioneerelectronics.com