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Hifonics BG-1900.1D

Hifonics BG-1900.1D Brutus Gamma Monoblock Amplifier User Manual

Model: BG-1900.1D

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Hifonics BG-1900.1D Brutus Gamma Monoblock Amplifier. Please read this guide thoroughly before attempting installation or use to ensure optimal performance and safety.

2. SAFETY INFORMATION

- Always disconnect the vehicle's negative battery terminal before any installation or wiring procedures to prevent electrical shorts.
- Ensure proper grounding of the amplifier to the vehicle's chassis.
- Use appropriate gauge power and ground cables 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.
- Consult a professional car audio installer if you are unsure about any part of the installation process.

3. KEY FEATURES

- **Powerful Sound Output:** Delivers 1,900 watts of power to speakers and subwoofers.

- **Mono Operation:** Designed for single-channel output, ideal for subwoofers.
- **Variable Electronic Crossover:** Allows precise control over audio frequencies.
- **Electronic Equalizer Capabilities:** Fine-tune your sound for optimal performance.
- **Overload and Speaker Short Protection:** Illuminated indicators on the amplifier end panel provide status.
- **Ultra-Fi MOSFET Output Devices:** Ensures powerful sound, efficient cooling, and minimal distortion.
- **Classic Hifonics Aluminum Construction:** Durable design for heat dissipation.
- **Secure Molded Connection Terminals:** Easy-to-access, angled ports for power, ground, and speaker connections.
- **Nickel-Plated Connectors:** Delivers efficient high/low level audio and resists corrosion.
- **Dual Coil Pulse Width Modulated Power Supply:** Maintains constant voltage through Ultra-Fi output devices.

4. PRODUCT OVERVIEW



Figure 4.1: Front view of the Hifonics BG-1900.1D Brutus Gamma Monoblock Amplifier, showcasing its sleek design and Hifonics branding.



Figure 4.2: Rear panel of the amplifier, detailing the RCA inputs, crossover controls, bass EQ, and level adjustments.

Official Product Video: Hifonics Brutus Gamma BG Amplifiers

Your browser does not support the video tag.

Video 4.1: An official overview of the Hifonics Brutus Gamma BG Amplifier series, highlighting key features and design elements.

5. INSTALLATION

Proper installation is crucial for the performance and longevity of your amplifier. Follow these steps carefully.

5.1 Power Cable Size and Fusing

Refer to the table below for recommended fuse sizes and cable gauges based on your amplifier model. Always use the proper power and ground cable sizes to prevent overheating and ensure stable power delivery.

| Model | Fuse Size | Cable Size |
|------------|-----------|------------|
| BG-1900.1D | 100A | 4ga |

5.2 Installation Steps

- Disconnect Negative Battery Terminal:** Before starting any work, disconnect the negative battery terminal to prevent accidental shorts.
- Run Cables:** Route power, ground, and RCA cables through the vehicle, keeping them separate to avoid interference.
- Mount Amplifier:** Securely mount the amplifier in a well-ventilated area, away from heat sources and moisture. Ensure it is firmly attached to a solid surface.
- Chassis Ground:** Connect the ground cable to a clean, unpainted metal surface on the vehicle's chassis. Use a bolt or screw to ensure a secure connection.
- Negative Power Connection:** Connect the negative power cable to the amplifier's GND terminal.
- Remote Turn-On Connection:** Connect the remote turn-on wire from your head unit to the amplifier's REM terminal.
- Positive Power Connection:** Connect the positive power cable to the amplifier's +12V terminal.
- Signal Input Connection:** Connect the RCA cables from your head unit's pre-outs to the amplifier's RCA input jacks.
- Speaker Connections:** Connect your subwoofer speaker wires to the amplifier's speaker output terminals. Ensure correct polarity (+ to + and - to -).

6. SETUP AND ADJUSTMENTS

After installation, configure the amplifier settings for optimal audio performance.

- Input Mode:** For monoblock amplifiers, ensure the input mode is set correctly for a single channel or bridged input.
- Crossover Mode:** Set the crossover switch to LPF (Low Pass Filter) for subwoofer applications. This allows only low frequencies to pass to the subwoofer.
- Low Pass Adjustment (LPF):** Adjust the LPF knob to set the upper frequency limit for your subwoofer, typically between 30Hz and 250Hz.
- Subsonic Filter:** Use the Subsonic filter to remove extremely low, inaudible frequencies that can waste

amplifier power and damage subwoofers.

- **Bass Boost:** Adjust the Bass EQ knob (0dB to 10dB) to enhance low-frequency output. Use sparingly to avoid distortion.
- **Level Setting:** Adjust the LEVEL knob to match the output voltage of your head unit. Start with the amplifier level at minimum and gradually increase until desired volume is achieved without distortion. This is not a volume control.

7. OPERATING INSTRUCTIONS

Once installed and configured, your Hifonics BG-1900.1D amplifier is ready for use. Turn on your vehicle's ignition and head unit. The amplifier should power on automatically via the remote turn-on connection. Adjust the volume from your head unit. If you experience any issues, refer to the troubleshooting section.

8. MAINTENANCE

- **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 are free from dust and debris to maintain proper heat dissipation.
- **Connections:** Regularly check all power, ground, and speaker connections to ensure they are secure and free from corrosion.
- **Fuse Replacement:** If the amplifier's fuse blows, replace it only with a fuse of the same type and rating (100A).

9. TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|-----------------|---|--|
| No Power | Blown fuse, loose power/ground connection, no remote turn-on signal. | Check/replace fuse, verify all power/ground/remote connections, check head unit remote output. |
| No Sound Output | Loose RCA cables, incorrect input mode, speaker wires disconnected, amplifier in protection mode. | Verify RCA connections, check input mode settings, ensure speaker wires are connected, check protection indicator. |
| Distorted Sound | Gain set too high, improper crossover settings, damaged speaker. | Reduce gain level, adjust crossover settings, inspect speaker for damage. |

| Problem | Possible Cause | Solution |
|-----------------------|---|--|
| Amplifier Overheating | Insufficient ventilation, impedance too low, prolonged high volume. | Ensure proper airflow around amplifier, verify speaker impedance, reduce volume. |

10. SPECIFICATIONS

- **Manufacturer:** Hifonics
- **Model:** BG-1900.1D
- **Output Power (RMS):**
 - @ 1 ohm: 1 channel x 1,900 watts
 - @ 2 ohms: 1 channel x 950 watts
 - @ 4 ohms: 1 channel x 475 watts
- **Number of Channels:** 1 (Monoblock)
- **Maximum Supply Voltage:** 12 Volts (DC)
- **Mounting Type:** Surface Mount
- **Item Weight:** 9 pounds
- **UPC:** 806576231219
- **Material:** Hifonics (Aluminum construction)

11. WARRANTY AND SUPPORT

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