Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

Hifonics BXX3000.1D

Hifonics BXX3000.1D Brutus Class D Mono Car Subwoofer Amplifier User Manual

Model: BXX3000.1D

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Hifonics BXX3000.1D Brutus Class D Mono Car Subwoofer Amplifier. Please read this manual thoroughly before attempting installation or operation to ensure proper use and to prevent damage to the amplifier or your vehicle's audio system. Keep this manual for future reference.

2. Safety Instructions

Always observe the following safety precautions during installation and operation:

- **Power Disconnection:** Disconnect the vehicle's negative battery terminal before starting any installation to prevent electrical shorts.
- **Professional Installation:** If you are unsure about the installation process, seek assistance from a qualified professional car audio installer.
- **Wiring:** Ensure all wiring is correctly routed and secured to prevent pinching, cutting, or abrasion. Use appropriate gauge wire for power, ground, and speaker 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.
- **Moisture Exposure:** Avoid mounting the amplifier in areas where it may be exposed to moisture or excessive humidity.
- **Fuse Protection:** Always use an external fuse on the main power cable, located within 18 inches (45 cm) of the battery terminal.
- **Volume Levels:** Prolonged exposure to high volume levels can cause hearing damage. Adjust volume responsibly.

3. Installation

3.1 Mounting the Amplifier

Choose a mounting location that is dry, well-ventilated, and secure. Ensure the amplifier is mounted firmly to prevent movement during vehicle operation. Avoid mounting on carpeted surfaces directly, as this can impede airflow.

3.2 Wiring Connections

Refer to the diagrams below for proper wiring connections. Ensure all connections are tight and secure to prevent intermittent operation or damage.



Figure 1: Power and Speaker Output Terminals

3.2.1 Power Connections

- **+12V (BATT+):** Connect this terminal directly to the positive (+) terminal of the vehicle's battery using a heavy-gauge power cable. Install an in-line fuse holder within 18 inches of the battery.
- **GND (Ground):** Connect this terminal to a clean, unpainted metal surface of the vehicle's chassis. Ensure a good electrical connection by scraping away any paint or rust. Use a heavy-gauge ground cable of the same size as the power cable.
- **REM (Remote):** Connect this terminal to the remote turn-on output of your head unit. This wire turns the amplifier on and off with your car's audio system.

3.2.2 Input Connections

Connect your head unit's RCA outputs to the amplifier's RCA input terminals (L and R).



Figure 2: Input and Control Panel

3.2.3 Speaker Output Connection

Connect your subwoofer(s) to the SPEAKER OUTPUT terminals. This is a mono amplifier, so all speaker connections should be wired to achieve the desired impedance (1 Ohm minimum stable impedance).



Figure 3: Close-up of Speaker Output Terminals

4. Controls and Adjustments

The Hifonics BXX3000.1D amplifier features several controls for fine-tuning your audio system. Refer to Figure 2 for the location of these controls.

- **LEVEL (Input Gain):** Adjusts the input sensitivity of the amplifier to match the output voltage of your head unit. Start with the gain control at minimum (0.2V) and slowly increase it until you hear distortion, then back off slightly.
- **PHASE:** Allows adjustment of the subwoofer's phase from 0° to 180°. This helps to align the subwoofer's output with the main speakers for optimal bass response.
- **BASS EQ:** Provides a bass boost from 0dB to 10dB at a specific frequency. Use sparingly to avoid distortion.
- **SUBSONIC:** A high-pass filter that removes extremely low frequencies (15Hz - 35Hz) that are inaudible and can cause damage to subwoofers. Set this just below the lowest frequency your subwoofer can reproduce effectively.
- **LPF (Low Pass Filter):** A low-pass filter that allows only frequencies below the set point (35Hz - 250Hz) to pass through to the subwoofer. Adjust this to blend the subwoofer's output with your main speakers.

- **MODE (MST/SLV):** This switch is used when linking multiple amplifiers. Set to MST (Master) for the primary amplifier and SLV (Slave) for secondary amplifiers in a linked setup.
- **REMOTE HFR-31:** Port for connecting an optional wired remote bass level control.
- **POWER LED:** Illuminates green when the amplifier is powered on and operating normally.
- **PROTECT LED:** Illuminates red when the amplifier enters protection mode due to overheating, short circuit, or low voltage.

5. Operation

Once all connections are made and verified, turn on your vehicle's ignition and head unit. The POWER LED on the amplifier should illuminate green. Gradually increase the volume on your head unit and adjust the amplifier's LEVEL control for optimal sound without distortion. Fine-tune the PHASE, BASS EQ, SUBSONIC, and LPF controls to achieve the desired bass response and blend with your vehicle's main speakers.

6. Maintenance

The Hifonics BXX3000.1D amplifier requires minimal maintenance.

- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, dry cloth to remove dust. Do not use harsh chemicals or abrasive cleaners.
- **Inspection:** Regularly check all wiring connections for tightness and signs of corrosion or damage. Ensure adequate ventilation around the amplifier.

7. Troubleshooting

If you experience issues with your amplifier, consult the following troubleshooting guide:

Problem	Possible Cause	Solution
No Power (Power LED off)	Blown fuse, poor power/ground connection, no remote signal.	Check in-line fuse, verify +12V, GND, and REM connections. Ensure head unit is on.
Protect LED is red	Overheating, short circuit in speaker wiring, impedance too low, low voltage.	Allow amplifier to cool. Check speaker wiring for shorts. Verify speaker impedance. Check vehicle's battery voltage.
No Sound Output	RCA input cables disconnected, gain set too low, speaker wires disconnected.	Check RCA connections. Adjust LEVEL control. Verify speaker connections.
Distorted Sound	Gain set too high, damaged speakers, improper filter settings.	Reduce LEVEL control. Inspect speakers. Adjust LPF, SUBSONIC, and BASS EQ settings.

8. Specifications

Feature	Specification
Model	BXX3000.1D
Output Power (RMS)	3000 Watts @ 1 Ohm

Feature	Specification
Number of Channels	1 (Mono)
Phase Shift	0° - 180°
Signal to Noise Ratio	>95dB
Frequency Response	10Hz - 250Hz
Bass Boost	0dB - 10dB
Subsonic Filter	15Hz - 35Hz
Low Pass Filter (LPF)	35Hz - 250Hz
Item Dimensions (L x W x H)	25.1 x 10.2 x 3.6 inches
Material Type	Metal, Plastic

9. Warranty Information

Warranty coverage for the Hifonics BXX3000.1D amplifier is provided as per Amazon's policy. Please refer to your purchase documentation or Amazon's website for specific details regarding warranty terms and conditions.

10. Customer Support

For technical assistance, troubleshooting beyond this manual, or inquiries regarding your Hifonics BXX3000.1D amplifier, please contact Hifonics customer support. You can typically find contact information on the official Hifonics website or through your authorized dealer.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B07943ZHNW

More documents and user manuals: **https://manuals.plus/**