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BOSS Audio Systems NX2000.2

BOSS Audio Systems NX2000.2 Onyx 2-Channel Amplifier

Model: NX2000.2

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your BOSS Audio Systems NX2000.2 Onyx 2-Channel Mosfet Bridgeable Amplifier. Please read this manual thoroughly before attempting installation or operation to ensure optimal performance and safety.



Front view of the BOSS Audio Systems NX2000.2 Onyx 2-Channel Amplifier, showcasing its compact design and control panel.

SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your amplifier. It is recommended that

installation be performed by a qualified professional.

Safety Precautions:

- Always disconnect the vehicle's negative battery terminal before starting any electrical work.
- Use appropriate gauge wiring for power, ground, and speaker connections to prevent overheating and ensure stable power delivery.
- Install an external fuse (not supplied) on the main power cable within 18 inches (45 cm) of the battery.
- Mount the amplifier securely in a location that allows for adequate ventilation and is protected from moisture and direct sunlight.

Wiring Connections:

1. **Power Connection:** Connect the +12V terminal of the amplifier to the positive terminal of the vehicle's battery using a heavy-gauge power cable.
2. **Ground Connection:** Connect the GND terminal of the amplifier to a clean, unpainted metal surface on the vehicle chassis. Ensure a solid, low-resistance connection.
3. **Remote Turn-On:** Connect the REM terminal of the amplifier to the remote turn-on output of your head unit. This will turn the amplifier on and off with your stereo.
4. **Audio Input:** Use RCA cables to connect the line-level inputs from your head unit to the amplifier's RCA input jacks. Alternatively, use the speaker-level inputs if your head unit does not have RCA outputs.
5. **Speaker Output:** Connect your speakers to the amplifier's speaker terminals. Ensure correct polarity (+ to + and - to -) for each speaker. For bridged operation, refer to the specific wiring diagram for your speaker configuration.
6. **Remote Subwoofer Level Control:** Connect the included remote control to the designated port on the amplifier for convenient bass level adjustment.

OPERATING INSTRUCTIONS

The NX2000.2 amplifier offers various controls to fine-tune your audio system.

Controls and Adjustments:

- **Variable Gain Control:** Adjusts the input sensitivity of the amplifier to match the output level of your head unit. Start with the gain at minimum and slowly increase until desired volume is achieved without distortion.
- **Low-Pass Crossover (LPF):** Filters out high frequencies, allowing only low frequencies to pass through to your speakers, typically used for subwoofers. This is a variable control, allowing precise frequency selection.
- **High-Pass Crossover (HPF):** Filters out low frequencies, allowing only high frequencies to pass through to your speakers, typically used for full-range or component speakers. This is a variable control.
- **Bass Boost:** Provides an 18dB boost at a specific low frequency, enhancing bass response. Use sparingly to avoid distortion or speaker damage.
- **Trimode Operation:** This amplifier supports trimode operation, allowing it to power two full-range speakers and one subwoofer simultaneously. Refer to the wiring diagram for specific trimode configurations.
- **Remote Subwoofer Level Control:** Use the wired remote to adjust the subwoofer output level conveniently from the driver's seat.

MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your amplifier.

- **Cleaning:** Periodically clean the amplifier's exterior with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners. Ensure ventilation fins are free of dust and debris to prevent overheating.
- **Ventilation:** Ensure that the amplifier's cooling fins are not obstructed. Proper airflow is essential for dissipating heat generated during operation.
- **Fuse Replacement:** If the amplifier fails to power on, check the external fuse on the power cable and the internal fuses (if applicable). Always replace fuses with the same type and rating to prevent damage.

TROUBLESHOOTING

If you experience issues with your amplifier, consult the following table before contacting technical support.

Problem	Possible Cause	Solution
No Power / Amplifier Not Turning On	Blown fuse; Poor power/ground connection; No remote turn-on signal.	Check and replace fuses; Verify power and ground connections; Ensure remote wire is connected and receiving +12V.
No Sound Output	Input cables disconnected; Speaker wires disconnected or shorted; Gain set too low; Head unit volume too low.	Check RCA or speaker-level input connections; Verify speaker wiring and check for shorts; Adjust gain control; Increase head unit volume.
Distorted Sound	Gain set too high; Speaker impedance mismatch; Damaged speakers; Poor ground connection.	Reduce gain setting; Ensure speaker impedance matches amplifier's capabilities; Inspect speakers for damage; Verify ground connection.
Amplifier Overheating	Insufficient ventilation; Speaker impedance too low; Prolonged high-power operation.	Ensure proper airflow around the amplifier; Check speaker impedance; Reduce volume or operating time.

SPECIFICATIONS

- **Brand:** BOSS Audio Systems
- **Model Name:** Onyx
- **Model Number:** NX2000.2
- **Speaker Maximum Output Power:** 2000 Watts
- **Number of Audio Channels:** 2/1 Channel
- **Power Source:** MOSFET Power Supply
- **Signal-to-Noise Ratio:** 102 dB
- **Additional Features:** Bass Boost, Remote Subwoofer Level Control
- **Mounting Type:** Tabletop Mount (typically for car audio installations)
- **Material:** Onyx (series designation)
- **Item Weight:** 1 Pound

WARRANTY INFORMATION

The BOSS Audio Systems NX2000.2 Onyx Amplifier comes with a **SIX YEARS** warranty. Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, refer to the official BOSS Audio Systems website or contact customer support.

CUSTOMER SUPPORT

For further assistance, technical support, or service inquiries regarding your BOSS Audio Systems NX2000.2 Onyx Amplifier, please visit the official BOSS Audio Systems website or contact their customer service department. Contact information can typically be found on the manufacturer's website or product packaging.

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