

Nemesis Audio NA-BASSPRO

Nemesis Audio NA-BASSPRO Digital Bass Processor User Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Nemesis Audio NA-BASSPRO Digital Bass Processor. Please read this manual thoroughly before attempting to install or operate the unit to ensure proper function and to prevent damage.

The Nemesis Audio NA-BASSPRO is a high-performance digital bass processor designed to enhance the low-frequency output of your car audio system, providing deeper and more impactful bass.

2. KEY FEATURES

- **Bass Knob Included:** For convenient remote bass level control.
- **Power LED Indicator:** Provides visual confirmation of unit operation.
- **Frequency Response:** 10Hz – 100KHz, ensuring a wide audio spectrum.
- **Parametric Bass Control:** Allows precise adjustment of bass frequency, width, and level.
- **PFM Subsonic Filter:** Protects subwoofers from damaging ultra-low frequencies.
- **Balanced Inputs:** Minimizes noise and interference for a cleaner signal.
- **Low Total Harmonic Distortion (THD):** 0.0003%, for high-fidelity audio reproduction.
- **High Output Level:** Up to 13.5 Volts, providing strong signal to amplifiers.

3. SAFETY INFORMATION

Always observe the following safety precautions during installation and operation:

- Disconnect the vehicle's battery negative terminal before any installation.
- Ensure all wiring is properly routed and secured to prevent damage or short circuits.
- Do not install the unit in locations exposed to direct sunlight, excessive heat, moisture, or dust.
- Use appropriate gauge wiring for power and ground connections.
- Consult a professional car audio installer if you are unsure about any part of the installation process.

- Do not attempt to open or modify the unit. This will void the warranty and may cause damage.

4. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance. The following steps outline a general installation procedure.

4.1 Package Contents

Upon opening the package, verify that you have received the following items:

- Nemesis Audio NA-BASSPRO Digital Bass Processor
- Remote Bass Knob with Cable
- Mounting Hardware (screws)
- User Manual (this document)

4.2 Mounting the Unit

Choose a secure, dry location for mounting the NA-BASSPRO, away from heat sources and moisture. Ensure adequate ventilation around the unit. Use the provided mounting hardware to secure the processor firmly.

4.3 Wiring Connections

Refer to the diagram below for typical wiring connections. Ensure all connections are secure and properly insulated.



Image 1: Nemesis Audio NA-BASSPRO Digital Bass Processor packaging. This image displays the retail packaging of the Nemesis Audio NA-BASSPRO Digital Bass Processor. The packaging highlights the model number NA-BASSPRO, identifies

it as a 'Competition Series Digital Bass Processor,' and lists key features such as 'Bass Knob Included,' 'Power LED Indicator,' 'Frequency Response: 10Hz-100KHz,' 'Parametric Bass Control,' 'PFM Subsonic Filter,' 'Balanced Inputs,' 'THD: 0.003%,' and 'Output Level: 13.5 Volt.' The Nemesis Audio logo is also prominently featured.

1. **Power Connection (+12V):** Connect a fused +12V wire from the vehicle's battery to the +12V terminal on the NA-BASSPRO.
2. **Ground Connection (GND):** Connect a short, heavy-gauge wire from the GND terminal to a clean, unpainted metal surface on the vehicle chassis.
3. **Remote Turn-On (REM):** Connect a remote turn-on wire from your head unit or amplifier to the REM terminal. This will turn the NA-BASSPRO on and off with your audio system.
4. **Audio Inputs:** Connect the RCA outputs from your head unit or signal processor to the 'INPUT' RCA jacks on the NA-BASSPRO.
5. **Audio Outputs:** Connect the 'OUTPUT' RCA jacks from the NA-BASSPRO to the RCA inputs of your subwoofer amplifier.
6. **Bass Knob:** Connect the remote bass knob cable to the designated port on the NA-BASSPRO and mount the knob in an accessible location for the driver.

5. OPERATING INSTRUCTIONS

Once installed, the NA-BASSPRO allows for fine-tuning of your bass output.

5.1 Parametric Bass Control

The NA-BASSPRO features controls for parametric bass adjustment. These typically include:

- **Bass Frequency:** Adjusts the center frequency of the bass enhancement.
- **Bass Width (Q):** Controls the bandwidth of the bass enhancement. A narrower Q affects a smaller range of frequencies, while a wider Q affects a broader range.
- **Bass Level:** Adjusts the overall intensity of the bass enhancement.

Experiment with these controls to achieve your desired bass response, complementing your vehicle's acoustics and speaker setup.

5.2 PFM Subsonic Filter

The PFM (Programmable Frequency Multiplier) Subsonic Filter protects your subwoofers by removing extremely low frequencies that are inaudible and can cause damage. Set this filter to a frequency just below the lowest frequency your subwoofer can safely reproduce. Consult your subwoofer's specifications for recommended settings.

5.3 Output Level

The NA-BASSPRO provides an output level of up to 13.5 Volts. Adjust the output level to match the input sensitivity of your amplifier. Start with a low setting and gradually increase it to avoid clipping or distortion.

5.4 Remote Bass Knob

The included remote bass knob allows for convenient, on-the-fly adjustment of the bass level from the driver's seat. This control typically adjusts the overall bass enhancement level set on the main unit.

6. MAINTENANCE

The Nemesis Audio NA-BASSPRO is designed for reliable operation with minimal maintenance.

- Keep the unit clean by wiping it with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.

- Ensure all connections remain secure. Periodically check wiring for any signs of wear or damage.
- Keep the area around the unit free from obstructions to ensure proper ventilation.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No Power / Power LED Off	• Blown fuse • Loose power or ground connection • No remote turn-on signal	• Check and replace fuse if necessary • Verify all power and ground connections are secure • Ensure remote wire is connected and receiving +12V when the head unit is on
No Sound Output	• Incorrect RCA connections • Low output level setting • Amplifier issues	• Verify RCA input and output connections • Increase the output level on the NA-BASSPRO • Check amplifier power and settings
Distorted Sound	• Input signal too high • Output level too high • Improper gain staging	• Reduce input signal from head unit • Lower the output level on the NA-BASSPRO • Adjust amplifier gains and NA-BASSPRO output for optimal signal matching
Weak Bass Enhancement	• Incorrect parametric bass settings • PFM filter set too high	• Adjust Bass Frequency, Width, and Level controls • Lower the PFM subsonic filter frequency

If the problem persists after checking these points, contact Nemesis Audio customer support or a qualified technician.

8. SPECIFICATIONS

Feature	Specification
Model Number	NA-BASSPRO
Brand	Nemesis Audio
Frequency Response	10Hz – 100KHz
Total Harmonic Distortion (THD)	0.0003%
Output Level	13.5 Volts

Feature	Specification
Input Type	Balanced Inputs
Special Features	Parametric Bass Control, PFM Subsonic Filter, Remote Bass Knob
Product Dimensions	10 x 3 x 9 inches
Item Weight	2.25 pounds

9. WARRANTY AND SUPPORT

Nemesis Audio products are manufactured to high-quality standards. For warranty information, please refer to the warranty card included with your product or visit the official Nemesis Audio website. Keep your proof of purchase for warranty claims.

For technical support or service inquiries, please contact Nemesis Audio customer service through their official channels. Do not attempt to service the unit yourself.