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BOSS NS-1X

BOSS NS-1X Noise Suppressor Instruction Manual

Next-Generation Noise Reducer & Ultra-Fast Gate for Guitar, Bass & Other Instruments

PRODUCT OVERVIEW

The BOSS NS-1X Noise Suppressor is an advanced pedal designed to eliminate unwanted noise from your instrument signal without compromising natural tone or playing feel. Utilizing BOSS's Multi-Dimensional Processing (MDP) technology, it offers intelligent noise reduction for various playing scenarios.

Key features include:

- Advanced BOSS MDP technology for intelligent noise suppression.
- Two primary modes: **Reduction mode** for general noise suppression and **Gate mode** for ultra-fast performance, ideal for high-gain riffs.
- Intuitive controls: Threshold, Decay, and Damp knobs for precise adjustment.
- Mute mode to silence the instrument signal when the pedal switch is engaged.
- Dynamic Reduction indicator displaying current noise suppression status.
- Send/return loop for optimized noise elimination with other pedals like overdrives and distortions.
- DC Out for powering other pedals (requires optional PSA adaptor and PCS-20A parallel cable).





Figure 1: Front view of the BOSS NS-1X Noise Suppressor, highlighting the dynamic reduction indicator.

SETUP AND CONNECTIONS

Proper connection of the NS-1X is crucial for optimal performance. The pedal can be integrated into your signal chain in various ways, including a standard inline connection or using its send/return loop for more complex setups.

Standard Connection

For basic noise suppression, connect your instrument to the **INPUT** jack and your amplifier or next pedal to the **OUTPUT** jack.

Send/Return Loop Connection (Recommended for Drive Pedals)

To effectively suppress noise from high-gain pedals (e.g., overdrive, distortion) while preserving their tone, use the NS-1X's send/return loop. Connect your instrument to the **INPUT**. Connect the **SEND** jack to the input of your noisy pedals, and the output of your noisy pedals to the **RETURN** jack. Then, connect the NS-1X's **OUTPUT** to your amplifier or subsequent effects.

Power Supply

The NS-1X operates on a 9V DC power supply (center negative). Connect an optional PSA adaptor to the **DC IN** jack. The **DC OUT** jack can be used to distribute power to other pedals when using a PCS-20A parallel cable (sold separately).



Figure 2: Rear panel connections of the NS-1X, illustrating input, output, send, return, and power jacks.



NS-1X Noise Suppressor

CUTTING-EDGE

NOISE SUPPRESSION

Next-generation **noise reducer** and **ultra-fast gate** for eliminating unwanted sounds from your amplifier.



Figure 3: The NS-1X pedal with instrument cables connected to its input and output jacks.

OPERATION

The NS-1X features intuitive controls to quickly dial in your desired noise suppression profile.

Controls

- **THRESHOLD Knob:** Adjusts the signal level at which the gate and reduction effects begin. Turn clockwise to increase the threshold, making the suppression more aggressive.
- **DECAY Knob:** Adjusts how quickly the sound softens when the input signal falls below the threshold. Higher settings result in a smoother, more natural decay.
- **DAMP Knob:** Adjusts the amount of the gate and reduction effects. This control fine-tunes the intensity of the noise suppression.
- **MODE Switch:** Toggles between **REDUCTION** mode and **GATE** mode.
- **REDUCTION Indicator:** A multi-LED display that dynamically shows the current noise suppression status, providing visual feedback on the pedal's activity.



NS-1X Noise Suppressor

WHAT'S IN THE BOX

- NS-1X
- 9V Dry Battery



Figure 4: Detailed view of the NS-1X control panel, showing knobs and mode switch.

Modes of Operation

- **Reduction Mode:** This mode provides intelligent noise reduction suitable for general playing. It subtly cleans up background noise without affecting the natural dynamics of your playing.
- **Gate Mode:** Designed for ultra-fast performance, this mode provides a hard gate, ensuring precision and sharpness for high-gain riffs and quick stops.
- **Mute Mode:** When the pedal switch is engaged, the instrument signal is silenced. When the switch is off, the pedal operates in the user-selected Reduction or Gate mode. This is useful for silent tuning or breaks.

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Video 1: Official product video demonstrating the BOSS NS-1X Noise Suppressor in action with a guitarist and drummer, showcasing its noise reduction capabilities in a live setting.



BOSS

NS-1X Noise Suppressor

PRECISE DETECTION

The NS-1X has a **reduction indicator** that dynamically displays the current noise suppression status.

Figure 5: The NS-1X in use with a guitar, demonstrating its cutting-edge noise suppression for various instruments.

BOSS
MDP X Series

MULTI-DIMENSIONAL PROCESSING

Intelligent **BOSS MDP technology** revolutionizes your sound with real-time analysis, offering unparalleled quality and playability beyond traditional effects processing.



Figure 6: The NS-1X in use with a bass guitar, highlighting its premium noise elimination for bass and extended-range instruments.

MAINTENANCE

To ensure the longevity and optimal performance of your BOSS NS-1X, follow these maintenance guidelines:

- **Cleaning:** Wipe the pedal with a soft, dry cloth. Avoid using abrasive cleaners or solvents, which can damage the finish or internal components.
- **Storage:** Store the pedal in a cool, dry place away from direct sunlight and extreme temperatures. If storing for an extended period, remove any batteries to prevent leakage.
- **Battery Replacement:** If using a 9V dry battery, replace it when the CHECK indicator dims or fails to light when the pedal is engaged. To replace, loosen the thumbscrew on the front of the pedal, open the pedal, and swap the battery.
- **Cable Connections:** Regularly check all cables for wear and tear. Loose or damaged cables can introduce noise or signal loss.

TROUBLESHOOTING

If you encounter issues with your NS-1X, refer to the following common troubleshooting steps:

- **No Sound:**

- Check all cable connections. Ensure they are securely plugged into the correct input/output jacks.
- Verify the power supply. Ensure the 9V DC adapter is properly connected and functioning, or replace the 9V battery if used.
- Bypass the pedal: Connect your instrument directly to the amplifier to confirm other components are working correctly.

- **Excessive Noise or Hum:**

- Ensure proper grounding of your equipment.
- Check for faulty cables or power supplies.
- Adjust the **THRESHOLD** and **DAMP** knobs. If the threshold is too low, it may not suppress enough noise.
- Consider using the **Send/Return loop** for noisy drive pedals, as this configuration is often more effective for isolating and suppressing their specific noise.

- **"Tone Suck" or Unnatural Sound:**

- This can often be resolved by adjusting the **DECAY** knob. A higher decay setting can provide a more natural sound.
- Ensure the pedal is in the appropriate mode (**Reduction** or **Gate**) for your playing style and signal.
- Review your cabling method, especially if using a 4-cable method with an amplifier's effects loop. Incorrect routing can lead to undesirable tonal changes.

SPECIFICATIONS

Feature	Specification
Model Number	NS-1X
Item Weight	1.26 pounds
Product Dimensions	2.88 x 5.16 x 2.36 inches
Body Material	Metal
Color	White
Connector Type	1/4 inch (6.35mm) audio jack
Hardware Interface	1/4-inch Audio
Signal Format	Analog
Power Source	Corded Electric
Voltage	9 Volts

WARRANTY AND SUPPORT

The BOSS NS-1X Noise Suppressor comes with a **BOSS five-year warranty**, ensuring reliability and peace of

mind. For detailed warranty information or technical support, please refer to the official BOSS website or contact your local BOSS distributor.

For further assistance, you may also visit the [BOSS Store on Amazon](#).