



Before using this unit, carefully read the sections entitled: "USING THE UNIT SAFELY" and "IMPORTANT NOTES" (supplied on a separate sheet). After reading, keep the document(s) where it will be available for immediate reference.

Main Features

- The BOSS NS-2 is a completely new type noise suppressor that features the SEND and RETURN jacks.
- The NS-2 can detect the instrument signal separately from the noise comes from each effect unit connected between the SEND and RETURN. This makes it possible to reduce the noise of each effect unit whether it is turned on or off.
- Different from the past noise suppressing system, the NS-2 features a high-quality VCA and high-speed envelope-detecting circuits, and the expander starts its function when the volume of the instrument becomes lower than the threshold level. Therefore, natural noise reducing effect is obtained without deteriorating the sound quality and expression.
- The NS-2 works as a noise-gate unit, cutting the noise and hum that occur between song intervals or at break.
- You can use the Pedal Switch effectively as a mute-switch when tuning or changing guitars, as for a Normal/Effect switch.
- The 9 V DC OUT jack is provided ti connect to the optional Parallel DC Cord (PCS-20A) for supplying power to the other 9 V effect units.

Guitar Amplifier

* To prevent malfunction and equipment failure, always turn down the volume, and turn off all the units before making any

sound when switching the unit on/off. However, this is normal and does not indicate a malfunction.

Before turning the unit on/off, always be sure to turn the volume down. Even with the volume turned down, you might hear some

Panel Descriptions

counterclockwise

OUTPUT jack

SEND jack

Pedal Switch

Thumbscrew

battery

amplifiers or other devices

The output jack is used to connect the unit to



- Power cannot be supplied from the DC OUT jack when the NS-2 is running on batteries.
- If you use the PCS-20A to supply power to devices that are compatible with PSA adaptors, make sure that the total current consumption of all devices (including the NS-2) does not exceed the maximum output current of the PSA series unit vou're using.

This sets the threshold level where the noise suppression starts working. Adjust it depending on the signal level and noise level, and when too low,

Through this jack, the input signal is sent to external effect devices.

By pressing the pedal, effect ON/OFF (Normal/Reduction in the Reduction mode and Reduction/Mute in the Mute mode) can be controlled.

When this screw is loosened, the pedal will open, allowing you to change the

* For instructions on changing the battery, refer to "Changing the Battery."



without being concerned about how much battery power you have left. We recommend that you keep batteries installed in the unit even though you'll be powering it with the AC adaptor. That way, you'll be able to continue a performance even if the cord of the AC adaptor gets accidentally disconnected from the unit.

Accepts connection of an AC Adaptor (PSA series; sold separately). By using an AC Adaptor, you can play

- Use only the specified AC adaptor (PSA-series).
- If the AC adaptor is connected while power is on, the power supply is drawn from the AC adaptor.

CHECK/MUTE indicator **REDUCTION** indicator CHECK/MUTE This indicator lights when the effect (Noise reduction or Mute whichever This indicator os lit when the noise reduction function is being engaged. selected) is on

This indicator also serves as battery check. If this indicator goes dim or no longer lights while an effect is ON, the THRESHOLD knob battery is near exhaustion and should be replaced immediately

This is where the signals from the effect units

SEND

RETURN jack

are returned.

Noise

INPUT

RETURN **←**

NS-2

The CHECK indicator shows whether the effect is on or off, and indicates the different functions. It does not indicate whether the power to the device is on or not.

DECAY knob

This sets the time needed for the sound to fade out when the input signal becomes lower than the set threshold level.

Rotating it clockwise makes the decay time longer. Normally, set this to the MIN position.

MODE selector switch

This selects the reduction or mute mode.

CHECK/MUTE Indicator		Light (ON)
REDUCTION	Normal	Reduction
MUTE	Reduction	Mute on

INPUT jack

This jack accepts input signals (coming from a guitar, some other musical instrument, or another effects unit).

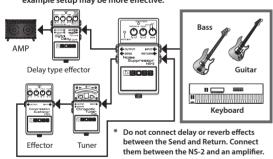


The INPUT jack doubles as the power switch. Power to the unit is turned on when you plug into the INPUT jack; the power is turned off when the cable is unplugged. To prevent unnecessary battery consumption,

be sure to disconnect the plug from the INPUT jack when not using the effects unit.

Operating the Unit

- 1. Make all the necessary connections.
- You can also set up the NS-2 at the end of the other effects, but the example setup may be more effective.



2. Set the controls on the panel as shown below.



- Push the pedal switch and make sure the check indicator lights up.
- When the check indicator is lit, noise reduction is on and when it is dark, normal.
- 4. Turn on the effect device to be used, then set the threshold knob so that the reduction indicator will light while not playing and the noise will not be natural.



- Try making the decay toward the end sound natural.
- 5. Normally, set the DECAY knob to the MIN position, but if the sound does not fade out naturally, rotate it clockwise.



- 6. Set the mode selector switch to reduction or mute.
 - REDUCTION position allows you to select Normal or reduction, and the MUTE position allows you to keep reduction on use Mute occasionally.

AC Adaptor

- Connect the AC adaptor to the DC IN jack on the unit first, then to the socket
- When the unit is not in use, disconnect the AC adaptor from the socket.

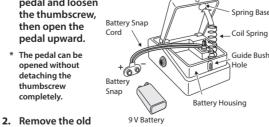
Use of Battery

- A battery was installed in the unit before it left the factory. The life of this battery may be limited, however, since its primary purpose was to enable testing.
- If you handle batteries improperly, you risk explosion and fluid leakage. Make sure that you carefully observe all of the items related to batteries that are listed in "USING THE UNIT SAFELY" and "IMPORTANT NOTES" (supplied on a separate sheet).
- If the battery voltage drops (the Check/Mute indicator becomes dimmer), various symptoms are shown, such as the effect becomes weak, no sound is produced, etc. To prevent that, replace the battery immediately.
- Batteries should always be installed or replaced before connecting any other devices. This way, you can prevent malfunction and

Thumbscrew

Changing the Battery





Pedal

* The pedal can be opened without detaching the thumbscrew completely.

battery from the battery housing, and remove the snap cord connected

- Connect the snap cord to the new battery, and place the battery inside the battery housing.
- * Be sure to carefully observe the battery's polarity (+ versus -)
- 4. Slip the coil spring onto the spring base on the back of the pedal, and then close the pedal.
- * Carefully avoid getting the snap cord caught in the pedal, coil spring, and battery housing.
- 5. Finally, insert the thumbscrew into the guide bush hole and fasten it securely.

Main Specifications

Nominal Input Level	-20 dBu
Input Impedance	1 ΜΩ
Nominal Output Level	-20 dBu
Output Impedance	1 kΩ
Recommended Load Impedance	10 kΩ or greater
Power Supply	Carbon-zinc battery (9 V, 6F22) or Alkaline battery (9 V, 6LR61)
	AC adaptor (PSA series: sold separately)
Current Draw	25 mA * Expected battery life under continuous use: Carbon: 11 hours Alkaline: 24.5 hours These figures will vary depending on the actual conditions of use.
Dimensions	73 (W) x 129 (D) x 59 (H) mm 2-7/8 (W) x 5-1/8 (D) x 2-3/8 (H) inches
Weight	415 g / 15 oz (including battery)
Accessories	Leaflet ("USING THE UNIT SAFELY," "IMPORTANT NOTES," and "Information") Carbon-zinc battery (9 V, 6F22)
Options	AC adaptor (PSA-series)
(sold separately)	Parallel DC Cord: PCS-20A

- * 0 dBu = 0.775 Vrms
- * This document explains the specifications of the product at the time that the document was issued. For the latest information, refer to the Roland website.

WARNING

Connect only specified devices to DC OUT jack

Connect only the specified device (PCS-20A) to the DC OUT jack (which provide a supply of power).



02 © 2016 Roland Corporation