



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.

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.

Panel Descriptions

AC Adaptor Jack
Accepts connection of an AC Adaptor (PSA series; optional). By using an AC Adaptor, you can play without being concerned about how much battery power you have left.

- * Use only the specified AC adaptor (PSA series; optional), and connect it to an AC outlet of the correct voltage. Do not use any other AC adaptor, since this may cause malfunction.
- * If the AC adaptor is connected while power is on, the power supply is drawn from the AC adaptor.
- * 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.

AC Adaptor
(PSA series: optional)

CHECK Indicator
Shows whether the effect is on or off, and also doubles as the battery check indicator. The indicator lights when the effect is on.

- * If you're powering the unit with a battery and the CHECK indicator goes dim—or doesn't light at all—when you try to turn the effect on, the battery is near depletion and should be replaced. For instructions on changing the battery, refer to “Changing the Battery.”
- * The CHECK indicator shows whether the effect is being applied or not. It does not indicate whether the power to the device is on or not.

BALANCE Knob
Adjusts the output balance between the direct sound and the effect sound.

MODE Knob
Selects the type of effect that adds overtones. Higher values (1–3) produce a deeper effect.

DETUNE Knob
Adjusts the depth of the detune effect which adds richness to your sound. Turning the knob clockwise deepens the effect.

TONE Knob
Adjusts the brightness of the effect sound. Turning the knob clockwise brightens the sound.

OUTPUT Jacks A (MONO)/B
These output jacks can be connected to an amplifier or another effects unit.

- * Use the OUTPUT A jack when you want to use mono output.

Guitar Amplifier

INPUT Jack
Accepts signals coming from a guitar or 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.

Electric Guitar

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

- * For instructions on changing the battery, refer to “Changing the Battery.”

Precautions When Connecting

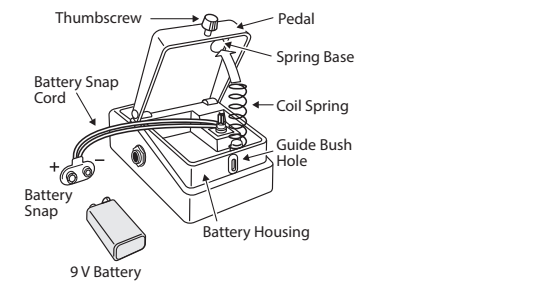
- To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.
 - Some connection cables contain resistors. Do not use cables that incorporate resistors for connecting to this unit. The use of such cables can cause the sound level to be extremely low, or impossible to hear. For information on cable specifications, contact the manufacturer of the cable.
 - If you'll be using the MO-2 for an extended time, we recommend that you use an AC adaptor. If you prefer to use a battery, we recommend an alkaline battery.
 - Raise the amp volume only after turning on the power to all connected devices.
 - Once the connections have been completed, turn on power to your various devices in the order specified. By turning on devices in the wrong order, you risk causing malfunction and/or damage to speakers and other devices.
- When powering up:** Turn on the power to your amp last.

When powering down: Turn off the power to your amp first.
- This unit is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before the unit will operate normally.
 - When operating on battery power only, the unit's indicator will become dim when battery power gets too low. Replace the battery as soon as possible.

Changing the Battery

When the indicator goes dim or no longer lights while the effect is on, it means that the battery must be replaced. Replace the battery following the steps below.

- * Since this device consumes a considerable amount of power, we recommend that you use an AC adaptor. If using batteries, please use alkaline batteries.



- Hold down the pedal and loosen the thumbscrew, then open the pedal upward.**
 - * The pedal can be opened without detaching the thumbscrew completely.
- Remove the old battery from the battery housing, and remove the snap cord connected to it.**
- 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 -).
- 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.
- Finally, insert the thumbscrew into the guide bush hole and fasten it securely.**

Specifications

Nominal Input Level	-20 dBu
Input Impedance	1 MΩ
Nominal Output Level	-20 dBu
Output Impedance	1 kΩ
Recommended Load Impedance	10 kΩ or greater
Power Supply	Alkaline battery (9V, 6LR61) or Carbon-zinc battery (9V, 6F22) AC adaptor (sold separately)
Current Draw	45 mA * Expected battery life under continuous use: Alkaline: Approx. 9 hours Carbon: Approx. 2.5 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	Owner's Manual Leaflet ("USING THE UNIT SAFELY," "IMPORTANT NOTE," and "Information") Alkaline battery (9V, 6LR61)
Option (sold separately)	AC adaptor (PSA series)

- * 0 dBu = 0.775 Vrms
- * The battery that was supplied with the unit is for temporary use, intended primarily for testing the unit's operation. We suggest replacing this with an alkaline dry cell.
- * 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.