



Before using this unit, carefully read the sections entitled: “USING THE UNIT SAFELY” and “IMPORTANT NOTES” (supplied on a separate sheet). These sections provide important information concerning the proper operation of the unit. Additionally, in order to feel assured that you have gained a good grasp of every feature provided by your new unit, this manual should be read in its entirety. The manual should be saved and kept on hand as a convenient 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.

Main Features

This is a distortion effect that produces the powerful sound of a large amp stack. It can generate a wide variety of distortion, ranging from classic rock sounds to modern high-gain sounds. You can obtain richly expressive guitar sounds by varying your guitar's volume and your picking dynamics.

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.

LEVEL Knob
Adjusts the volume when the effect is on.

BASS Knob
Adjusts the tone quality of the lower range when the effect is on.

OUTPUT Jack
Connect this jack to your amp or to the input of another effect unit.

Pedal Switch
This switch turns the effect on/off.

AC Adaptor
(PSA series: optional)

CHECK Indicator
This 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.

SOUND Knob
Adjusts the sound character of the distortion and the amount of distortion obtained when the effect is turned on.

Fat crunch sound.

Distortion that packs a great punch.

Ultra-high-gain distortion.

TREBLE Knob
Adjusts the tone quality of the upper range when the effect is on.

INPUT Jack
This 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.

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.”

Electric Guitar

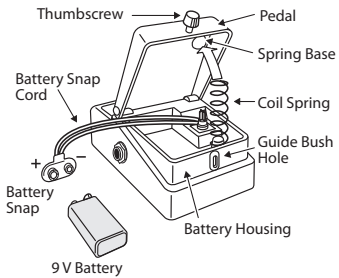
Precautions When Connecting

- * 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 ST-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 guitar amp last.
- When powering down: Turn off the power to your guitar 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.
1. Hold down the pedal and loosen the thumbscrew, then open the pedal upward.
 - * The pedal can be opened without detaching the thumbscrew completely.
 2. Remove the old battery from the battery housing, and remove the snap cord connected to it.
 3. 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.



Troubleshooting

Power won't come on/CHECK indicator doesn't light:

- Is your guitar properly connected to the INPUT jack? Check the connection once more.
- * The power will not turn on without a plug connected to the INPUT jack.
- * 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.
- Is the specified adaptor (PSA series; optional) properly connected? Check the connection once more.
- * Never use any AC adaptor other than one specified for use with the ST-2.
- Is the battery low or dead? Replace with a new battery.
- * The battery that is supplied with the unit is for temporary use, intended primarily for testing the pedal's operation.
- * If you'll be using the ST-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.
- * To prevent unnecessary battery consumption, be sure to disconnect the plug from the INPUT jack when not using the effects unit.

No sound/Low volume:

- Is your instrument properly connected to the ST-2? Check the connection once more.
- Is the LEVEL knob turned down? Turning the LEVEL knob toward the left will decrease the volume when the effect is on; if either knob is turned all the way to the left, there will be no sound. To hear the sound, turn the LEVEL knob to the right.
- Is the volume turned down on any guitar amp or effects device you have connected? Check the settings of the connected device.
- Is the battery low or dead? Replace with a new battery.

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Setting Samples

For combo amp

ULTRA GAIN

MIDDLE GAIN

CRUNCH

For stack amp

ULTRA GAIN

MIDDLE GAIN

CRUNCH

Specifications

ST-2: Power Stack	
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	DC 9 V: Carbon-zinc battery (9 V, 6F22)/ Alkaline battery (9 V, 6LR61), AC Adaptor (PSA series: optional)
Current Draw	41 mA (DC 9 V) * Expected battery life under continuous use: Carbon: 3 hours Alkaline: 9 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	440 g/1 lb (including battery)
Accessories	Owner's Manual, Leaflet ("USING THE UNIT SAFELY," "IMPORTANT NOTES," and "Information"), Alkaline battery (9 V, 6LR61)
Option	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.
- * In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.