



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.

Main Features

This is an effect unit that's designed specifically for bass; it generates a solid sound that takes advantage of the tone and response of the bass itself.

Use the BLEND knob to mix the direct sound to the output, and use the responsive HIGH/LOW knobs to adjust the tone intuitively.

The LINE OUT jack provides a balanced output that preserves the tonal character of the bass amp. This is convenient when connecting a mixer or recorder.

Panel Descriptions

DC IN 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; sold separately), 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 a battery is installed, 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.

BLEND knob
Adjusts the output balance between the direct sound and the effect sound.

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

LINE OUT jack
This is a balanced (TRS) type output jack. Connect it to your mixer or recorder.
* This cannot be used as a headphone jack.
* The LINE OUT jack is wired as follows.

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."

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.

DRIVE knob
Adjusts the amount of overdrive. Turning the knob clockwise increases the effect (distortion).

HIGH knob
Adjusts the sound level of the upper range when the effect is on.

LOW knob
Adjusts the sound level of the lower range when the effect is on.

INPUT jack
This jack accepts signals coming from a bass 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.

Pedal switch
This switch turns the effect on/off.

Precautions When Connecting

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

* 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 bass amp last.

When powering down: Turn off the power to your bass 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.

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).

* 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.

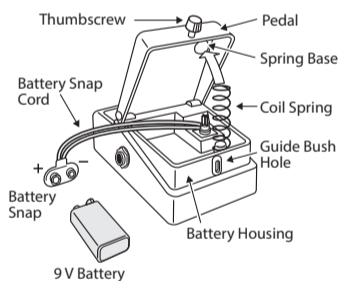
* Batteries should always be installed or replaced before connecting any other devices. This way, you can prevent malfunction and damage.

* The use of an AC adaptor is recommended as the unit's power consumption is relatively high. Should you prefer to use batteries, please use the alkaline type.

Changing the Battery

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.

Specifications

BOSS BB-1X: Bass Driver

Nominal Input Level	-20 dBu
Input Impedance	1 MΩ
Nominal Output Level	-20 dBu
Output Impedance	OUTPUT: 1 kΩ LINE OUT: 600 Ω
Recommended Load Impedance	OUTPUT: 10 kΩ or greater LINE OUT: 600 Ω or greater
Power Supply	DC 9 V: Alkaline battery (9 V, 6LR61)/ Carbon-zinc battery (9 V, 6F22), AC Adaptor (sold separately)
Current Draw	54 mA * Expected battery life under continuous use: Alkaline: Approx. 6 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	450 g/1 lb (including battery)
Accessories	Owner's Manual, Leaflet ("USING THE UNIT SAFELY," "IMPORTANT NOTES," and "Information"), Alkaline battery (9 V, 6LR61)
Option (sold separately)	AC adaptor (PSA series)

* 0 dBu = 0.775 Vrms

* In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.

Setting Samples

