



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.

Panel Descriptions

DC IN jack
In addition to 9-volt battery operation, this unit can also operate on a 9-volt AC adaptor (BOSS PSA series; sold separately).
* Use only the specified AC adaptor (PSA series; sold separately), and connect it to an AC outlet of the correct voltage.
* If the AC adaptor is connected while a battery is installed, the power supply is drawn from the AC adaptor.

LEVEL knob
This knob adjusts the volume of the effect sound.
* No sound will be heard when this knob is rotated completely counterclockwise.

BATTERY switch
This recreates the difference in sound caused by using batteries with different voltages. The sound changes according to the voltage you set. This simulates both the change in sound caused by the voltage you set, as well as the drop in battery voltage caused by the input signal. The sound changes according to the voltage setting, regardless of the actual battery voltage. This effect works even when using the AC adaptor.

OUTPUT jack
Use this 1/4" output jack to connect to the input of your guitar amplifier or the input of additional effect unit.

Pedal switch
This switch turns the effects ON/OFF.

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 an effect is ON/OFF, and doubles as the Battery Check indicator. The indicator lights when an effect is ON.
* The brightness of the CHECK indicator (LED) will dim as the battery lowers. Replace the battery when the LED is dim or does not light. For instructions, refer to "Changing the Battery."
* 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.

OUTPUT BUF/THRU switch
Enables/disables the output buffer. This works regardless of whether the effects are on or off.

ATTACK knob
Rotating the knob clockwise increases the gain and fuzz effect.
* If you set this knob too high, the noise will increase and oscillation may occur.

INPUT jack
This jack accepts input signals (coming from a guitar, some other musical instrument, or another effects unit).
* The INPUT jack also serves as the power switch. Power is turned on whenever a plug is inserted into the INPUT jack, and is turned off when the plug is disconnected. When not using the unit, you should disconnect any cord connected to the INPUT jack.

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 guitar amp last.
When powering down: Turn off the power to your guitar amp first.
- Before turning the unit on/off, always be sure to turn the volume down. Even with the volume turned down, you might hear some sound when switching the unit on/off. However, this is normal and does not indicate a malfunction.
- Do not use connection cables that contain a built-in resistor.

Changes in Sound Due to Changes in Temperature

As the TB-2W uses germanium transistors, the sound changes significantly with changes in temperature. In particular, since low temperatures cause large reductions in gain, we recommend that you use this unit in an environment between 20–30°C.

Time Required for Stable Operations After Turning On the Power

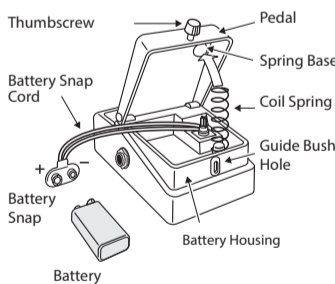
As the TB-2W uses germanium transistors, it takes time for the unit's operations to stabilize after you turn it on. We recommend that you turn the power on several minutes before using it.

Use of Battery

- The life of the included battery may be limited as its primary purpose was for testing during assembly.
- 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.
- If the batteries run extremely low, the sound may distort, but this does not indicate a malfunction. If this occurs, please replace the batteries or use the AC adaptor (sold separately).
- Batteries should always be installed or replaced before connecting any other devices. This way, you can prevent malfunction and damage.

Changing the Battery

- 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, hold down the pedal while tightening the thumbscrew into the guide bush hole.



Main Specifications

Nominal Input Level	-20 dBu
Input Impedance	1 MΩ (Buffered, Effect Off) 15 kΩ (Effect On)
Nominal Output Level	-20 dBu
Output Impedance	1 kΩ (Buffered) 15 kΩ (True Bypass, Effect On)
Recommended Load Impedance	10 kΩ or greater
Power Supply	DC 9 V: Alkaline battery (9 V, 6LR61), AC adaptor (sold separately)
Current Draw	60 mA * Expected battery life under continuous use: Alkaline battery: Approx. 4 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 (including battery)	430 g 1 lb
Accessories	Owner's Manual, Leaflet ("USING THE UNIT SAFELY," "IMPORTANT NOTES," and "Information"), Tone Bender booklet, Alkaline battery (9 V, 6LR61)
Option (sold separately)	AC adaptor (PSA-series)

* 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.

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Additional Precautions

When disposing of the packing carton or cushioning material in which this unit was packed, you must observe the waste disposal regulations that apply to your locality.

For the USA

SUPPLIER'S DECLARATION OF CONFORMITY
Compliance Information Statement

Model Name : TB-2W
Type of Equipment : GUITAR EFFECTS
Responsible Party : Roland Corporation U.S.
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