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› BOSS LS-2 Line Selector/Power Supply Guitar Pedal Instruction Manual

## BOSS LS-2

# BOSS LS-2 Line Selector/Power Supply Guitar Pedal Instruction Manual

Model: LS-2



## 1. INTRODUCTION

The BOSS LS-2 Line Selector is a versatile guitar pedal designed to manage and switch between multiple audio signal paths. It allows musicians to easily switch between different effects devices or amplifiers, or to route input and output signals in various configurations. Featuring two independent line loops and six looping modes, the LS-2 offers extensive control over your signal chain. Additionally, it can supply power to several BOSS compact pedals when used with an AC adaptor, simplifying your pedalboard setup.

## 2. IMPORTANT SAFETY INFORMATION

- **Power Supply:** Use only the specified AC adaptor (BOSS PSA series) or a 9V battery. Using an incorrect power supply can cause malfunction or damage.
- **Connections:** Ensure all connections are secure before operating the unit. Avoid connecting or disconnecting cables while the unit is powered on to prevent damage to the unit or other equipment.
- **Environment:** Do not expose the unit to extreme temperatures, humidity, or direct sunlight. Keep away from water and other liquids.
- **Cleaning:** Clean the unit with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Servicing:** Do not attempt to service the unit yourself. Refer all servicing to qualified personnel.

## 3. PANEL LAYOUT AND CONTROLS

Familiarize yourself with the various controls and connectors on your LS-2 pedal.



**Figure 3.1:** Top-down angled view of the BOSS LS-2 Line Selector pedal, highlighting the input/output jacks, send/return loops, level controls, and mode selector knob.

- **INPUT Jack:** Connect your instrument or the output of a preceding effect pedal here.
- **OUTPUT Jack:** Connect this to your amplifier or the input of the next effect pedal.
- **SEND A/RETURN A Jacks:** These form Loop A. Connect effects pedals you wish to include in Loop A here.
- **SEND B/RETURN B Jacks:** These form Loop B. Connect effects pedals you wish to include in Loop B here.
- **LEVEL A Knob:** Adjusts the output level for Loop A.
- **LEVEL B Knob:** Adjusts the output level for Loop B.
- **MODE Selector Knob:** Selects one of the six operational modes for the line selector.
- **PEDAL Switch:** Toggles the selected loop(s) on/off or switches between modes depending on the selected mode.
- **AC Adaptor Jack (DC IN 9V):** Connect a BOSS PSA series AC adaptor here for power.
- **DC OUT Jack:** Provides power to other BOSS compact pedals when using an AC adaptor.



Figure 3.2: Side view of the BOSS LS-2 pedal, illustrating the various 1/4-inch audio jacks for input, output, and the two send/return loops.

## 4. SETUP AND CONNECTIONS

### 4.1 Powering the Unit

- **Battery Power:** Open the battery compartment on the underside of the pedal and insert a 9V battery, ensuring correct polarity.
- **AC Adaptor Power:** Connect a BOSS PSA series AC adaptor to the DC IN 9V jack. The LS-2 can also supply power to other BOSS compact pedals via the DC OUT jack using an optional daisy chain cable.

### 4.2 Connecting Audio

1. Connect your instrument (e.g., guitar) to the **INPUT** jack.

2. Connect the **OUTPUT** jack to your amplifier or the next pedal in your signal chain.
3. For Loop A, connect the input of your effects chain to the **SEND A** jack and the output of that effects chain to the **RETURN A** jack.
4. For Loop B, connect the input of your effects chain to the **SEND B** jack and the output of that effects chain to the **RETURN B** jack.



**Figure 4.1:** Angled view of the LS-2, showing the various input, output, send, and return jacks for connecting instruments and effect loops.

## 5. OPERATION

The LS-2 offers six distinct modes of operation, selected via the **MODE** knob. Each mode dictates how the two loops (A and B) and the bypass signal interact.

### 5.1 Mode Descriptions

- **A ↔ BYPASS:** Switches between Loop A and a direct bypass signal.

- **B ↔ BYPASS:** Switches between Loop B and a direct bypass signal.
- **A ↔ B:** Switches between Loop A and Loop B.
- **A+B ↔ BYPASS:** Switches between both Loop A and Loop B active simultaneously, and a direct bypass signal.
- **A+B MIX ↔ BYPASS:** Mixes the signals from Loop A and Loop B, then switches between this mixed signal and a direct bypass. The **LEVEL A** and **LEVEL B** knobs control the individual levels of each loop in the mix.
- **OUTPUT SELECT:** This mode allows you to switch between two different outputs. The signal from the INPUT jack is routed to either the OUTPUT jack or the RETURN A jack (which then acts as a second output). This is useful for switching between two amplifiers.



**Figure 5.1:** Detailed view of the LS-2's control panel, including the green LEVEL A knob, red LEVEL B knob, and the white MODE selector knob with its various settings.

## 5.2 Level Adjustment

Use the **LEVEL A** and **LEVEL B** knobs to adjust the volume of the signals passing through Loop A and Loop B, respectively. This is particularly useful for balancing levels when switching between different effects or when mixing loops in "A+B MIX" mode.

## 5.3 Using the Pedal Switch

The large foot pedal switch activates or deactivates the selected loop(s) or switches between the designated paths, depending on the chosen **MODE** setting. The indicator light will show the current status (e.g., which loop is active).

## 6. MAINTENANCE

- **Cleaning:** Wipe the unit with a soft, dry cloth. For stubborn dirt, use a slightly damp cloth and then dry thoroughly. Avoid harsh chemicals.
- **Battery Replacement:** When the indicator light dims or the unit stops functioning, replace the 9V battery. Always remove the battery if the unit will not be used for an extended period.
- **Storage:** Store the pedal in a clean, dry place away from direct sunlight and extreme temperatures.

## 7. TROUBLESHOOTING

- **No Sound:**

- Check all cable connections (input, output, send, return).
- Ensure the power supply (battery or AC adaptor) is correctly connected and functioning.
- Verify the **MODE** knob setting is appropriate for your desired signal path.
- Check the **LEVEL** knobs; ensure they are not set to minimum.
- Test the connected effects pedals in the loops independently to ensure they are working.

- **Weak or Distorted Sound:**

- Adjust the **LEVEL** knobs to achieve proper signal balance.
- Ensure the input signal level is not too high, causing clipping.
- Check the condition of your cables.

- **Noise or Hum:**

- Ensure all power supplies are properly grounded.
- Try using a different power outlet or AC adaptor.
- Keep audio cables away from power cables.
- Check for faulty cables or connections.

## 8. SPECIFICATIONS

<b>Brand</b>	BOSS
<b>Model Name</b>	LS-2
<b>Item Type Name</b>	Line Selector/Power Supply Guitar Pedal
<b>Controls Type</b>	Knob
<b>Power Source</b>	Corded Electric (9V DC via AC Adaptor) or 9V Battery
<b>Voltage</b>	9 Volts
<b>Amperage</b>	300 Milliamps (for power supply function)
<b>Hardware Interface</b>	1/4-inch Audio Jacks
<b>Signal Format</b>	Analog
<b>Item Dimensions (L x W x H)</b>	6 x 3.75 x 2.85 inches
<b>Item Weight</b>	500 Grams

## 9. WARRANTY INFORMATION

This BOSS LS-2 pedal is covered by a **Boss five-year warranty**. Please retain your proof of purchase for warranty claims. For detailed terms and conditions, refer to the warranty card included with your product or visit the official BOSS website.

## 10. CUSTOMER SUPPORT

For further assistance, technical support, or service inquiries, please visit the official BOSS website or contact your local BOSS distributor. You can find contact information and additional resources on the official BOSS support pages.



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