

# electro-harmonix

## DUAL OP-AMP

# BIG MUFF

# 2

Welcome to the Electro-Harmonix Big Muff Pi 2, our legendary hit reimagined. This creamy fuzz features a long-lost dual op-amp gain circuit from the 1970s designed by the Muff legend himself, Bob Myer. The Big Muff Pi 2 delivers its own unique flavor of fuzz magic while remaining true to the Big Muff Pi legacy. This pedal has modern upgrades including a soft footswitch, true bypass, an LED to indicate effect status, and optionally may be powered by a standard 9V battery or 9V pedal power supply.

## Operating Instructions

---

Connect your guitar to the input jack of the Big Muff Pi 2 and the output jack to your amp's input. Press the footswitch to ensure the LED is lit. Your BMP2 is now ready to play.

A good starting point is to set the SUSTAIN and TONE knobs to their 12 o'clock positions, and the VOL knob to 9 o'clock. Further tweak the knobs to dial-in your perfect setting.

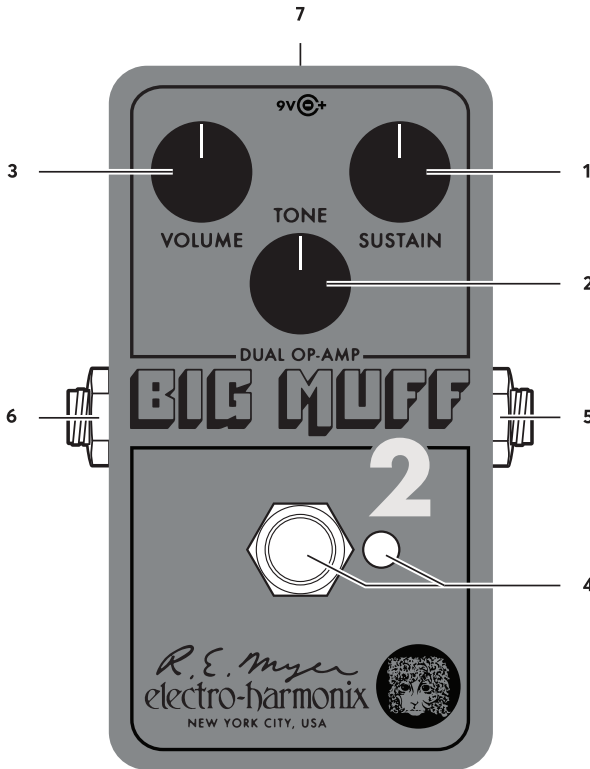
### POWER REQUIREMENTS:

Voltage: **9VDC**      Current: **15mA**      Polarity: **Center-Negative**      Battery: **9V**

This device may be powered with an Electro-Harmonix 9.6DC-200mA, MOP-D10, or S8 power supply. It may also be powered with a 9V battery. Use of the wrong adapter or a plug with the wrong polarity may damage the device and void the warranty. Do not exceed 12VDC on the power plug. Power supplies rated for less than 50mA can cause the device to act unreliably.

## Controls and Connections

---



1. **SUSTAIN Knob** Adjusts the amount of sustain and distortion.
2. **TONE Knob** Provides a range of sounds from high treble to deep bass. As you turn the knob clockwise the treble increases and bass decreases.
3. **VOL Knob** Sets the output level of your BMP2.
4. **FOOTSWITCH & STATUS LED** The soft footswitch engages or bypasses the effect. The status LED lights when the effect is engaged. The LED is off in bypass. A mechanical relay is employed for True Bypass. The footswitch includes a momentary action when you press and hold the switch for more than half a second. The momentary footswitch action may be disabled, see the section called *Footswitch Latching and Momentary Action*.
5. **Input Jack** Audio input jack, located on the right side of the pedal. Impedance: 117kΩ.

6. **Output Jack** Audio output jack, located on the left side of the pedal.  
Impedance: max 2.7kΩ.
7. **9VDC Power Jack** An optional 9VDC, center-negative power supply may be connected to the power jack to provide power without a battery. The Big Muff Pi 2 requires 15mA at 9VDC on a center-negative plug. Do not exceed 12VDC at the power jack.

*When using a 9V battery, plugging into the input jack activates power.*

*The input cable should be removed when the unit is not in use to avoid running down the battery.*

*To change the 9-volt battery, you must remove the 4 screws on the bottom of the Big Muff Pi 2. Once the screws are removed, you can take off the bottom plate and change the battery. Do not touch the circuit board while the bottom plate is off, or you risk damaging a component. Reattach the bottom plate and screws after the battery has been changed.*

---

## Footswitch Latching and Momentary Action

---

The soft footswitch works both like a standard latching footswitch and a momentary footswitch. The latching action means each press and release of the footswitch will toggle between bypass and effect modes. A momentary change between bypass and effect occurs when you press and hold the footswitch. The Big Muff Pi 2 changes state immediately upon pressing the footswitch. If you continue to hold the footswitch—for more than half a second—it will return to the previous state when you release the footswitch.

Momentary hold action can be disabled completely by performing the following procedure:

1. Power down the Big Muff Pi 2.
2. Press and hold the footswitch.
3. While holding down the footswitch, apply power to the BMP2.
4. Continue to hold down the footswitch. After about 2 seconds, the LED blinks.  
A slow blink means momentary footswitch holds are disabled. A fast blink means momentary footswitch holds are enabled.
5. Release the footswitch.

The momentary footswitch hold setting is remembered through power-cycles so you can set it and forget it.

---

## Notes and Specifications

---

Audio input impedance at Input jack: 117kΩ

Audio impedance at the Output jack: varies with VOL knob, maximum of 2.7kΩ

Current draw: 15mA at 9VDC

Power Supply: 9VDC with Center-negative polarity, or 9V battery

True bypass switching