electro-harmonix

bass

BIG MUFF

π2

Welcome to the Electro-Harmonix Bass Big Muff Pi 2 (BBMP2)! From original Big Muff designer, Bob Myer, we bring you his long-lost dual op-amp gain circuit, now configured for bass players everywhere. Drawing inspiration from the original Bass Big Muff Pi, the BBMP2 employs sonic elements specifically added for bass instruments, such as a wet/dry Blend knob and Bass Boost toggle switch. The BBMP2 will thicken up your sound and provide over-the-top low-end growl for a bevy of creamy bass fuzz tones.

Operating Instructions

Connect your instrument to the INPUT jack of the BBMP2 and the AMP jack to your amp's input. Set all knobs to noon except VOL, which should start at minimum. Power your BBMP2 with a 9V battery or external 9VDC power supply. Press the footswitch to ensure the LED is lit. Turn up the VOL knob about a quarter of the way. Your Bass Big Muff Pi 2 is now ready to play.

POWER REQUIREMENTS:

Voltage: **9VDC**   Current: **20mA**   Polarity: **Center-Negative**   Battery: **9V**

This device may be powered by an Electro-Harmonix 9.6DC-200, MOP-D10, or S8 power supply. 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
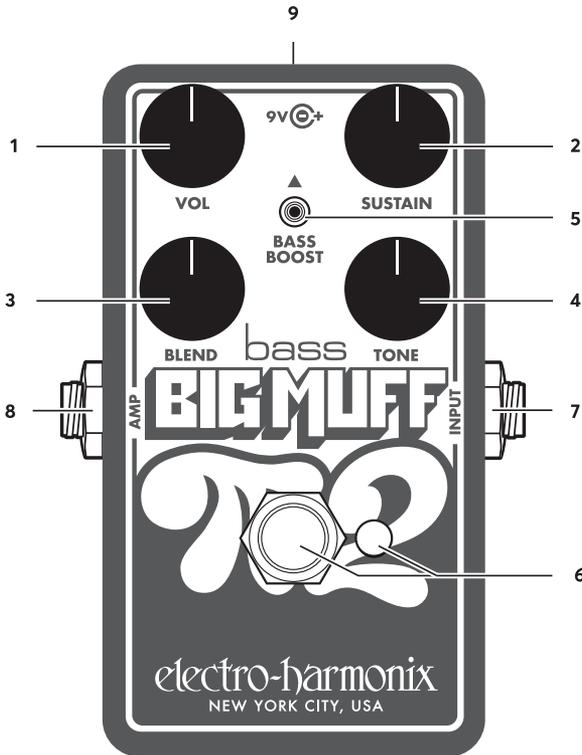
1. **VOL Knob** Sets the output level at the AMP jack. As you turn this knob clockwise, your output signal gets louder.

2. **SUSTAIN Knob** Adjusts the amount of saturation, sustain, fuzz, and distortion.

3. **BLEND Knob** Mixes between the dry and distorted signals. Turn this knob fully counterclockwise for 100% dry signal and fully clockwise for 100% wet signal. Setting the BLEND knob to noon yields a 50/50 mix of dry/distorted signal.

4. **TONE Knob** Provides a range of sounds from high treble to deep bass. As you turn the knob clockwise, treble increases and bass decreases.

5. **BASS BOOST Switch** This 2-position toggle switch allows you to add more low-end to the fuzz tone. Flip the switch to the up position to add a low-end boost to the distortion. It is most effective with higher TONE knob settings. In the down position, the Bass Boost is fully bypassed.

6. **FOOTSWITCH and 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. The Bass Big Muff Pi 2 employs True Bypass with a mechanical relay. The footswitch includes a momentary action, when you press and hold the footswitch for more than half a second. The momentary footswitch action may also be disabled, see the section *Footswitch Latching and Momentary Action*.

7. **INPUT Jack** Audio input jack. Impedance: 2.2MΩ.

8. **AMP Jack** Audio output jack. Impedance: 270Ω.

9. **9VDC Power Jack** An optional 9VDC, center-negative power supply can be connected to the power jack to provide power without a battery. The BBMP2 requires 20mA 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 BBMP2. Once the screws are removed, you can take off the bottom plate and change the battery. Please do not touch the circuit board while the bottom plate is off, or you risk damaging a component.

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. For a momentary change between bypass and effect, press and hold the footswitch. The BBMP2 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 BBMP2.

2. Press and hold the footswitch.

3. While holding down the footswitch, apply power to the BBMP2.

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 impedance at the INPUT jack: 2.2MΩ

Audio impedance at the AMP jack: 270Ω

Current draw: 20mA at 9VDC

Power Supply: 9VDC with Center-negative polarity

True bypass switching