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# deluxe bass BIG MUFF π2

**Welcome to the Electro-Harmonix Deluxe Bass Big Muff Pi 2 (DBBMP2).** 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 both the Bass Big Muff 2 and the original Deluxe Bass Big Muff, the DBBMP2 is an expanded take on the legendary fuzz sound of the Big Muff, designed specifically for bass guitar. The DBBMP2 includes a Crossover footswitch to sculpt your tone with high pass and low pass filter knobs, as well as a Gate knob to squelch unwanted noise. An input pad switch provides gain attenuation for active pickups while a wet/dry Blend knob allows for a perfect balance between fuzz and dry signals. An XLR Direct Output is included to run straight to a board and there is a Direct Out jack for setting up parallel signal paths.

## Operating Instructions

Connect your bass to the Input jack of the Deluxe Bass Big Muff Pi 2 and the Output jack to your amp's input. Set most knobs to noon, except Gate to minimum and Volume to 9 o'clock. Power your Deluxe Bass Big Muff Pi 2 with the supplied 9VDC power supply or any compatible 9V pedal power supply. Press the Effect footswitch to ensure its LED is lit. Your Deluxe Bass Big Muff Pi 2 is now ready to play.

**POWER REQUIREMENTS:**

Voltage: **9VDC** Current: **45mA** Polarity: **Center-Negative**

This device comes equipped with an Electro-Harmonix 9.6DC-200 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 100mA may cause the device to act unreliably.

# Controls and Connections


1. **VOLUME Knob** Sets the output level of the DBBMP2 at the OUTPUT and DI OUTPUT jacks. As you turn this knob clockwise, your output signal gets louder.
2. **BLEND Knob** Mixes between the dry and distorted signals. Turn this knob fully counterclockwise for 100% dry signal and fully clockwise for 100% distorted signal. Setting the BLEND knob to noon yields a 50/50 mix of dry/distorted signal.
3. **TONE Knob** Provides a range of sounds from high treble to deep bass on the distorted effect only. As you turn the TONE knob clockwise, the bass response reduces and treble increases.
4. **SUSTAIN Knob** Adjusts the amount of sustain, distortion, and fuzz.
5. **GATE Knob** Controls the input amplitude needed to open the noise gate. As you turn the GATE knob clockwise, the amount of gating increases, requiring a louder signal at the Input jack—after the Input switch—to open the gate and allow sound to pass through to the Output jack. Turning the GATE knob down all the way disables the noise gate function.
6. **HPF CROSSOVER Knob** When Crossover is engaged, the signal entering the distortion circuit is sent through a second-order high pass filter (HPF). The HPF knob adjusts the cutoff frequency of the high pass filter, ranging from 115Hz to 1kHz, with the frequency increasing as the knob is turned clockwise.
7. **LPF CROSSOVER Knob** When Crossover is engaged the dry signal is sent through a second-order low pass filter (LPF). The LPF knob adjusts the cutoff frequency of the low pass filter from 60Hz to 10kHz, with the frequency increasing as the knob is turned clockwise.

8. **Internal XOVER VOL. Trim Pot** Both the HPF and LPF are connected to an internal trim pot labeled Xover Vol. which adjusts the overall gain of the Crossover section. If you find that the volume jumps when you press the CROSSOVER footswitch, either getting quieter or louder, then try adjusting the internal Xover Vol. trim pot for balanced volume between Crossover on and off. The factory setting for Xover Vol. is 10 o'clock. Before attempting to adjust the internal trim pot, make sure you are happy with the HPF and LPF knob settings, as their settings can change the output volume of the Crossover section.
9. **INPUT switch** When set to -10dB, this toggle switch engages 10dB of attenuation on the input to make the DBBMP2 friendlier to basses with active pickups. Set INPUT to 0dB for no attenuation on the input signal.
10. **EFFECT FOOTSWITCH and STATUS LED** The soft footswitch engages or bypasses the effect. The status LED lights red when the effect is engaged. The LED is off in bypass. The Deluxe Bass Big Muff Pi 2 employs buffered bypass. The footswitch includes a momentary action: pressing and holding the footswitch for more than half a second returns DBBMP2 to the previous state upon release. The momentary footswitch action may be disabled, see the section *Footswitch Latching and Momentary Action.*
11. **CROSSOVER FOOTSWITCH and STATUS LED** The soft footswitch turns the Crossover circuit on or off. The status LED lights green when the Crossover circuit is active. The LED is off when disengaged. The footswitch includes a momentary action: pressing and holding the footswitch for more than half a second returns DBBMP2 to the previous state upon release. The momentary footswitch action may also be disabled, see the section *Footswitch Latching and Momentary Action.*
12. **INPUT Jack** Audio Input Jack. Impedance: 2.2MΩ.
13. **OUTPUT Jack** Main Audio Output Jack. Impedance: 550Ω.
14. **DIRECT OUT Jack** This is a buffered output of the original, unaffected bass signal. You can connect this jack to an amplifier or different effects chain. Impedance: 550Ω.
15. **DI OUTPUT XLR Jack** Low impedance output capable of driving 600Ω so that you can plug directly into a mixing console and recording equipment. This output's signal is the same as that of the OUTPUT jack. Impedance: 100Ω.
16. **9VDC** Power Jack – Current draw: 45mA at 9.0VDC, center-negative polarity.

## Footswitch Latching and Momentary Action

The two soft footswitches work 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 footswitches on the Deluxe Bass Big Muff Pi 2 change state immediately upon pressing the footswitches. If you continue to hold a 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 independently for each footswitch by performing the following procedure:

1. Power down the Deluxe Bass Big Muff Pi 2.
2. Press and hold either the Effect or Crossover footswitch or both footswitches.
3. While holding down the footswitch, apply power to the Deluxe Bass Big Muff Pi 2.
4. Continue to hold down the footswitch. After about 2 seconds, the LED near the footswitch blinks. A slow blink means momentary footswitch holds are disabled for that footswitch. A fast blink means momentary footswitch holds are enabled for that footswitch.
5. Release the footswitch.

The momentary hold setting for each footswitch is remembered through power-cycles, so you can set them to your preferred settings, and they will remain until you change them again.

## Notes and Specifications

Audio impedance at the INPUT jack: 2.2MΩ

Audio impedance at the OUTPUT jack: 550Ω

Audio impedance at the DIRECT OUT jack: 550Ω

Audio impedance at the DI OUTPUT jack: 100Ω

Current draw: 45mA at 9VDC

Power Supply: 9VDC, Center-negative polarity

Buffered bypass switching

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