

MEGABEAT

AUDIO

Ghost Booster User's Manual

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1 Description and features

Ghost Booster is a true bypass booster pedal with big headroom (to avoid saturation), very high input impedance (respecting your instrument tone) and gain from 0 dB (buffer) to 30 dB: broad range which will let you gain presence on a solo, adjust different stages levels or compensate the change between single and humbucker pick-ups among other uses.

Some characteristics:

- True bypass to avoid tone-loss
- Adjustable gain from 0 to 30 dB
- Powered by 9V battery or adapter
- Easy access battery holder
- Very high input impedance and very low output impedance
- Completely hand-made by MegaBeat Audio: from design and PCB's to painting and assembling
- Power filtering to reduce noise
- Reverse polarity protection
- Neutrik jacks
- Ultra low distortion and low noise high performance audio operational amplifier
- Great dynamic range

2 Knobs

Gain Knob With this knob you can adjust pedal gain from 0 to 30 dB.

3 Audio Jacks

Input Jack Signal input. Connect here your instrument or the output of the previous device on the signal chain.

Output Jack Signal output. Connect to your amplifier or the next device on the signal chain.

¹*Ghost Booster* doesn't make up sound or adds any equalization, it just respects your instrument tone with more fidelity than many pedals do.

4 Power

Pedal can be powered with a battery or an adapter. In both cases, pedal has a power filtering that reduces noise and imperfections caused by it. Thus, you can use an economic adapter with great results or improve a good adapter performance.

Power is commuted by input jack, so if this jack is unconnected, pedal will be off and won't use energy from battery nor adapter.

Battery This pedal can be powered with a 9V battery. To replace battery it's not necessary to dismantle the pedal thanks to the easy battery holder on the bottom side. Alkaline batteries are recommended.

Power Jack (9V) This pedal can be powered with a 9V DC adapter. Polarity is center negative as indicated on the pedal. Don't connect a wrong polarity adapter even though pedal is protected and nothing would happen.

When an adapter is connected, battery is disconnected automatically to prevent it from discharging.

5 Led & Footswitch

Led shows pedal status. ON indicates that *Ghost Booster* is acting and OFF that pedal is on true bypass, that is, input is connected directly to output and not to pedal circuitry to avoid any tone-loss.

Pedal status is changed by footswitch.

6 Setup Examples

Depending on effects order, different results can be obtained. Several positions of *Ghost Booster* on the signal chain and the approximate results are shown below. Anyway, the best way is trying until you get your personal desired sound.

Tone-loss prevention If you want to obtain the characteristic tone-loss prevention¹ of *Ghost Booster*, it's better to connect your

instrument directly to pedal before signal gets modified or deteriorated going through other pedal or device.

Buffer At 0 dB position (without increasing volume) it acts as a buffer achieving a perfect Impedance Bridging: useful to keep the tone completely, even running long cables or between pedals causing tone-loss problems.

Before distortion Placed before a distortion effect, it will increase the volume a little but distortion increase will be the most noticeable effect. You can also improve tone if instrument is connected directly to *Ghost Booster*

After distortion Placed after a distortion effect, it will increase volume with no distortion variation. However, if after *Ghost Booster* you connect an amplifier on a saturation channel, distortion produced by pre-amplifier stage could increase, making volume gain smaller. In case you don't want to increase distortion, you can use effects loop explained below.

Effects Loop If you connect *Ghost Booster* on the amp effects loop, it will add gain in a transparent way avoiding saturation thanks to pedal's big dynamic range.

7 Technical Specifications

- Gain (adjustable): 0 - 30 dB
- Input impedance: 1 M Ω
- Output impedance < 10 Ω
- Dynamic range > 13.8 dBu
- Current draw (on) \approx 20 mA
- Current draw (bypass) \approx 10 mA
- Dimensions: 124 mm x 93 mm x 55 mm
- Weight (without battery) = 280 g

8 Warranty

MegaBeat Audio provides an excellent warranty for 2 years. Should any of our products fail, contact us by our website (www.megabeataudio.com) and we will repair it with no cost for you² including components and labour and shipping costs.

9 More info

You can find more information, demo videos or contact us at our website:

www.megabeataudio.com

²If failure is not caused by an improper use.