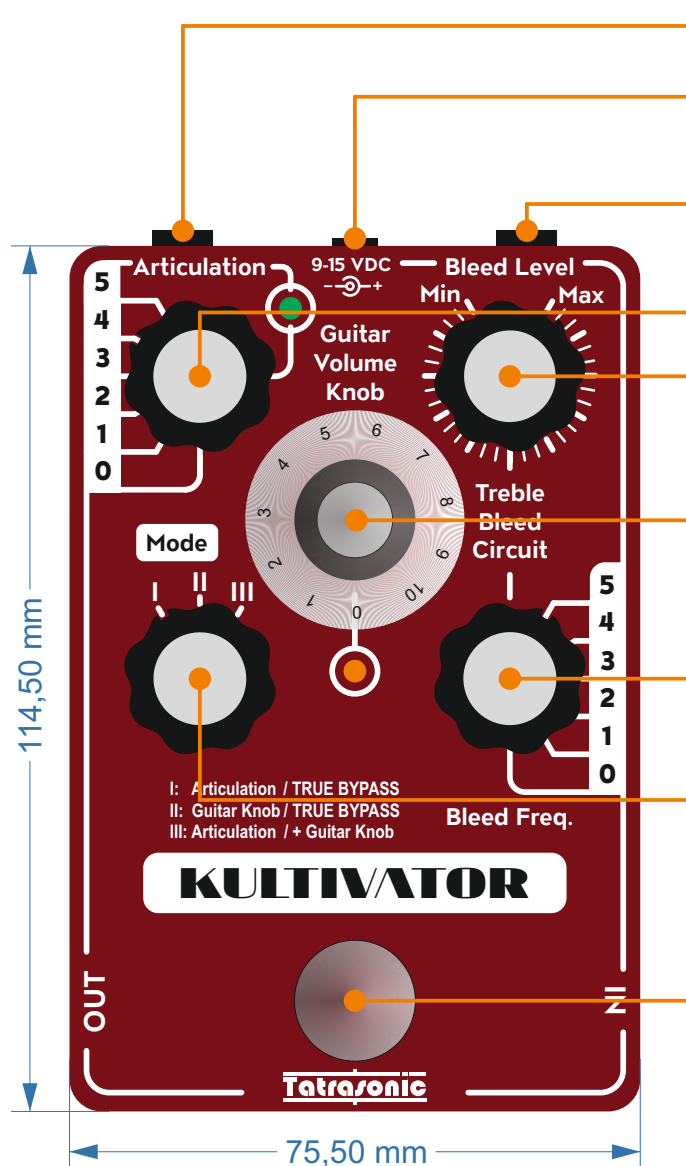


Rýchly užívateľský manuál



Signal **TO** amplifier (Jack, TRS, 6.3mm)

DC jack (2.1 / 5.5 mm) for power supply (9 to 15V).
Max. current consumption is 15 mA. Center negative.

Signal **FROM** guitar (Jack, TRS, 6.3mm)

Articulation switch is used for cutting "mud" from the sound. 0 is minimum cut, 5 is maximum cut.

Bleed level potentiometer is used for setting treble level in the bleed circuit.

Volume is used for the exact same thing as on a guitar. To roll signal gain / volume down.

Bleed frequency setting.

This is variable because different guitars need different settings. 0 is for darker sound, 5 is very sharp bleeding.

Mode setting.

MODE I: Footswitch is controlling only Articulation.

MODE II: Footswitch is controlling volume drop + bleeding.

MODE III: Articulation is always ON. FS is controlling volume and the bleeding circuit.

Footswitch. The functionality depends on mode setting.

WE WISH YOU A GREAT TONE!

.....
Maroš Ďurík

.....
Juraj Kankula

Description:

The necessity of the Kultivator arose from the fundamental laws of electrical engineering. Guitar pickups possess high internal/output impedance (not to be simplified solely to DC resistance). Therefore, to regulate guitar volume, a potentiometer with a significantly higher resistance value must be used to avoid unwanted signal attenuation even when the pot is at maximum. However, this introduces a further increase in impedance, particularly in the potentiometer's middle positions. Consequently, the signal source (the guitar) becomes highly susceptible to the parasitic capacitance of the guitar cable and the input impedance of the amplifier. The resulting circuit begins to act as a low-pass filter—simply put, it starts to "eat" the high frequencies.

The solution commonly used is known in technical literature as a "treble bleed." This wiring attempts to restore the drop in high frequencies so the sound doesn't lose its brightness. However, this typically requires one or more internal modifications to the guitar itself.

The Kultivator solves these issues, providing the ability to "clean up" a distorted sound without losing high frequencies and without any modifications to the guitar's wiring—effectively transforming a high-gain channel into a clean or crunch channel.

Furthermore, its design allows it to function as an impedance amplifier/buffer. This means the electrical requirements for the guitar cable following the Kultivator are significantly reduced.

For more information and audio samples, please visit our website: www.tatrasonic.sk

