

The FreaQ Double Stage Booster User Manual



Thank you for purchasing The FreaQ Double Stage Booster. This unique boost pedal allows you to boost your signal like a regular linear booster, but it also provides you with a second boost stage where you can configure the booster to work as a bass boost, a treble boost or anything in between. The variable frequency range and a dedicated GAIN control to boost or cut the selected frequencies give this pedal an unparalleled versatility. The unique DAMPING control allows you to tame any low frequency content before the signal gets boosted, giving your sound unparalleled clarity to stand out in any mix.

Controls:



1. **1/4" (6.35 mm) mono output.** Use an instrument / patch cable to connect your next pedal or the input of the amplifier.

2. **9 -18 VDC power supply jack.** Connect a regular pedal power supply unit with a 5.5 x 2.1 mm barrel plug, center negative.
3. **1/4" (6.35 mm) mono input.** Use an instrument cable to connect your guitar or the previous pedal in your effects chain.
4. **DAMPING control:** Pre-boost low frequency filter. The Damping control is a variable filter to reduce the low frequency content that feeds the booster circuit. If all of the low frequency content is allowed to be boosted, the bottom end may sound loose and flabby - by reducing (damping) the low frequency content at the input, the bottom end remains tight and responsive. As a general rule, higher BOOST settings sound better with increased DAMPING (i.e. less low frequencies feeding the circuits). Lower BOOST settings pair well with lower DAMPING settings, providing a more open low end character. No damping is applied to the input signal at the lowest setting (7 o'clock),
5. **GAIN control:** This control works in conjunction with the FREQ control below to determine the sound for the 2nd stage.
Once the second stage is activated (FREQ footswitch), GAIN settings below 12 o'clock cut the selected frequency range and GAIN settings above 12 o'clock will boost the selected frequency range.
This allows you to use the 2nd stage either as a bass booster or as a treble booster with any possible sounds in between.
6. **BOOST control:** This adjusts the signal level sent to the output jack.
Higher BOOST settings can drive the preamp stage of a tube amplifier into overdrive.
This will only boost the incoming signal. The lowest setting (7 o'clock) therefore does not reduce the input signal, but maintains the input signal level at unity gain.
You can use this setting to manipulate the frequency content of your signal with the 2nd stage without actually boosting the signal level.
7. **FREQ control:** Determines the frequency to be boosted or cut when the 2nd stage is engaged. This works in conjunction with the GAIN control. Select a frequency with the FREQ control and use the GAIN control to boost or cut that frequency range
8. **BOOST footswitch & LED:** This footswitch activates the 1st boost stage where only the BOOST and DAMPING controls affect the sound. The 1st boost stage is active when the LED above the switch is lit. The pedal is switched in True Bypass when the LED is off.
9. **FREQ footswitch & LED:** This footswitch activates the 2nd boost stage which uses the GAIN and FREQ controls in addition to the other controls.
The 2nd stage is active when the LED above the switch is lit.
For the 2nd stage to be active, the 1st stage must first be activated. If the BOOST footswitch is off, the 2nd stage is also off, even if the FREQ LED is still lit. In this case, turning on the 1st stage will at the same time activate the 2nd stage.

Specifications:

- Input: 1/4" (6.35 mm) TS
- Output: 1/4" (6.35 mm) TS

- Power supply: 9 -18 VDC 5.5 x 2.1 mm barrel plug, center negative
Battery operation is not possible.
Do not connect more than 18 V!
Power Consumption: max. 18 mA
- Dimensions: 3.70" x 4.86" x 2.09" (94 x 124 x 53 mm)
- Weight: 0.82 lbs (370 g)

About us:

THORN SOUNDLABS, established in 2021, is a sophisticated pedal manufacturer based in Nashville, Tennessee, often hailed as the 'Music City'. This bustling town, steeped in the rich traditions of music and entertainment, became the breeding ground for a collective of engineers, seasoned touring musicians, long-time industry experts, and passionate enthusiasts. Together, they embarked on a mission to redefine the realm of guitar and bass effects pedals and began creating a range of pedals with that little something “extra”, not just the “next distortion pedal”. Our pedals are instruments that sculpt and shape the sonic landscapes of musicians around the world. We understand that TONE is a personal journey.

In an age dominated by digital trends, THORN SOUNDLABS proudly embraces the warmth of analog design. We believe in the authenticity and richness that analog circuitry brings to musical tone. Each pedal meticulously crafted at THORN SOUNDLABS is a testament to our dedication to preserving the true essence of sound. Our goal is to provide musicians with effect pedals that deliver classic sound with that extra bit of control.

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