



Little Devil Equalizer - Designed by Wade Chandler Goeke

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Thank you for purchasing the Chandler Limited Little Devil Equalizer. Your Devil is handmade in the USA by real people. What does that mean? We do not use large solder or component machines that pick and solder the parts. We pay a real person to do it like they did in the golden age of gear. We do not have most of our work done in China only to do final assembly in America and then call it made in USA. We do not use surface mount components or ribbon cables commonly used in cell phones and computers to shrink their size and reduce the build time. Instead we use time proven through hole audio components, discrete transistors, and large transformers just like they did in the golden age of gear.

At Chandler we are proud of our American made products and we hope you like them!


The Little Devil Equalizer uses a 100% discrete transistor circuit and specially wound transformers. Included are item descriptions and hints to get you on your way. Please feel free to call our shop anytime for help or questions.

Prior to sending in your gear for repair, please contact our shop at the number below. We will assist you in troubleshooting the problem and if needed, we will issue you an RMA# to send in the gear.

Send repairs to: Chandler Limited, Inc.
Attention: Repairs
222 S. Cherry St.
Shell Rock, IA 50670

Phone: (319) 885-4200
Email: support@chandlerlimited.com

 Connections - All connections on the Devils are transformer balanced with pin 2 hot.

 Current draw - Here are the current draw specifications for the Devil Equalizer when the Devil is loaded 600 ohm and operating at a continuous level of unity gain. Please consult your rack and PSU specifications to make sure you are not overloading you system.

+16 volt power rail = +65ma
-16 volt power rail = -65ma

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COMPATIBILITY-

The Little Devil Equalizer is tested and proven to have no start up or power errors in these racks-

API 500v 10-slot with L200 PSU

API 500-6B Lunchbox

API 500-6B HC "new version" Lunchbox

BAE 11-slot with power one supply

BAE 6-slot portable with power one supply

BAE 6-slot with Avedis designed supply

Emperical Labs 2-slot (awesome rack and worth the money!)

A-Designs 2-slot

Purple Sweet 10

As of the release of this product we have not yet tested with the Radial Workhorse.

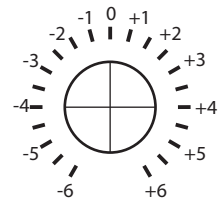
POWER SUPPLY RECOMMENDATIONS-

With ANY 500 modules (not just the Devils) we recommend using a rack with external supply. We feel a power supply in such close proximity to the right hand slots of the rack can cause hum and noise floor issues with many modules by many manufacturers. For this reason we mainly recommend the API 500v rack with external L200 supply and the BAE 11-slot with external supply.

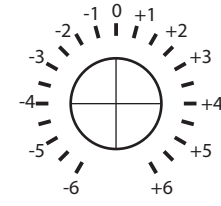
NOTES on BAE racks-

We recommend adding a wire from Earth to power supply common on all BAE racks. In many cases hum can be avoided and Earth to common is standard procedure on most electronic equipment.

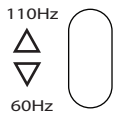
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TREBLE



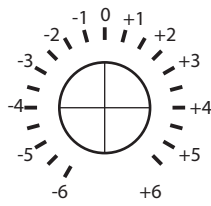
BASS



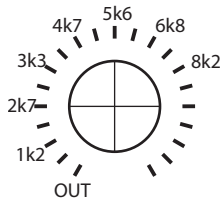
TREBLE and BASS - The Devil Treble and Bass controls are English circuits as used in many of your favorite recordings and pieces of gear. It is a high and low shelving circuit as developed by JP Baxebdall and was used in classic 1073 and 1081 modules we all love, and many other known units. We started with these circuits and set the frequencies to 12k high frequency and selectable 60/110 Hz low frequency. From there I adjusted both the circuit and frequencies as my ears saw fit.

The Treble and Bass bands are both capacitor based circuits and thus have a high distinct sound that differs from modern gyrator parametric circuits. You'll find the Treble to be smooth and open sounding and the Bass warm and round.

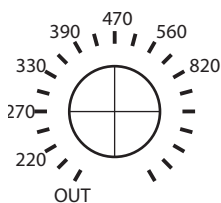
The selectable Bass was tuned with different uses in mind. The 60Hz selection has been tuned for a deep, low bass sound suited for drums and bass guitar. The 110Hz selection has a wide sweeping curve that accents mid frequencies as well as bass. This is excellent for filling out guitars and bass and just about anything else.



MID Frequencies - As with the Treble and Bass the Mids are based on well loved English console circuits. Again they were used in 1073, 1081, and 33115 type designs as well as many other classic UK circuits. While the Treble and Bass are capacitor in design the Mids are inductor based. Those familiar with the sound of inductor circuits can testify to their wonderful sound. Modern gyrator, parameteric, and plug in equalizers can't touch the "cool" provided by the inductor circuits!



HI MID



LO MID

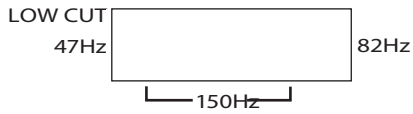
Each Mid band is also provided with a Q switch. The Q sharpens or smooths the peak of the Mid band and allows for mellow or a more pointed boost and cut. As well as changing the point of the EQ you will notice that the Q also changes the amount of overall boost and cut. If you need more boost/cut or want to "dig in" to the track more you may find switching to "hi Q" helps. If you're looking for a smoother EQ sound and more resolution try the "lo Q". In my use I try each Q setting whenever grabbing for a mid band. It is simple and fast to try both and may yield unexpected results.

The Mid frequencies are...

HI MID - 1k2, 2k7, 3k3, 4k7, 5k6, 6k8, 8k2.

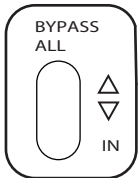
LO MID - 220, 270, 330, 390, 470, 560, 820 Hz.

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LOW FILTER - As with all the Devil EQ circuits this too has English heritage. The simple pushbutton circuit allows for three selections

by pushing different combinations. Left is 47Hz. Right is 82Hz. Both is 150Hz. Unlike most Chandler products, which have wide extended frequency response, the Devil EQ is sharply cut at 20Hz on the low end. This can help to keep the low end spectrum from becoming muddy. For this reason the filter steps start at 47Hz. You may still find it useful to switch the filter to this first step to clear out low frequency mud.



BYPASS - The Bypass on the Devil EQ is a hardwire bypass. When set to bypass there is absolutely no circuit in your signal path.

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CE Certification

Chandler Limited declares under its sole responsibility that all products manufactured by them are in compliance with EC directives 2004/108/EC Electromagnetic Compatibility; 2004/108/EG Electromagnetic Compatibility; 2006/95/EC Low Voltage Equipment Safety.