

About the Shaka Express:

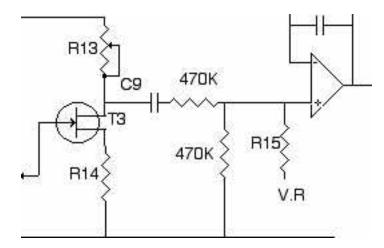
The Shaka Express is a medium to very high gain overdrive pedal. The op amp section resembles the original Shaka Braddah, minus the clipping diodes. In fact, one of the versions of the Shaka Express had LEDs as clipping diodes in the feedback loop of the op amp. There are 3 FET stages that allow you to get lots of gain. The mid notch circuit is subtle but does enhance the tone of the circuit. As of this schematic date, this is my favorite high-gain distortion pedal. It sounds very good when recorded direct using the Marshall speaker simulator. A touch of reverb and delay and it's a great sound. Tons of harmonics, sustain, and grind are in this pedal. This pedal is not for low gain sounds - it's heavy overdrive/distortion all the way!

Suggested Mods:

The Shaka Express is the first Shaka pedal to go through a testing process before being released. Here are some of the mods suggested:

Ed Rembold:

To utilize T3 to the fullest - put a 470K/470K resistor after C9 from signal to ground and use the junction of the 2 resistors to the input of the tone stage. Ed used a 100K dual pot for the "bite" control. You can also try a 50K dual pot as well. Note: In my version, I didn't clip T3 as much, the trimmer before T3 was set so the level was fairly low going into T3. Ed's recommendation is a good one and allows you to control T3's distortion a lot more.



I recommend shielded wire for the input and output of this pedal. Ground the shield only on one end of the cable.

Another tip: As Rob Strand pointed out, you could make a mod that would switch the 3rd gain stage in and out, making the pedal a lot more versatile for lower gain sounds. I've done it and it works very well.

Layout/PCB

Coming soon...

http://hail-eris.com/~stompbox/pedals/ http://surf.to/stompbox