

TOUCH MY DANG HEART

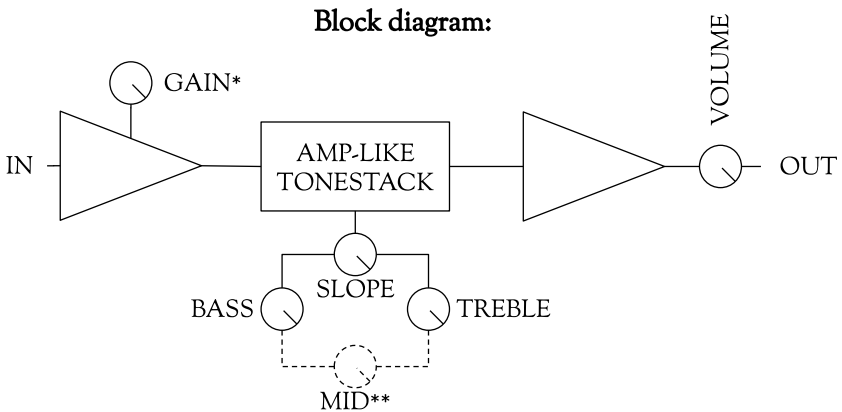
Equalizer

User Manual

Design statement:

The Touch My Dang Heart Equalizer combines a powerful, full-range clean boost with tone controls modeled after those found in guitar amplifiers.

The bass and treble controls automatically adjust an under-the-hood mid-range control. The result is a versatile two-band equalizer with an authentically amp-like sound and a consistent perceived loudness across all settings. Finally, a “slope” control adds a quasi-parametric element, allowing users to fine-tune the location of the mid-range scoop and enhance the power of one band at the expense of the other.



*internal trimpot; increasing may cause distortion

**automatically adjusted according to BASS and TREBLE settings

Controls overview:

- **BASS/TREBLE:** amp-like tone controls; flat response at 0% rotation; turn clockwise to add bass/treble
- **SLOPE:** adjusts the value of the “tone slope resistor”; at low %-rotation, the BASS band is wider with a larger gain range and the mid-range scoop is shifted toward a higher frequency; vice versa
- **GAIN:** the input gain can be adjusted via an internal trimpot; increasing it will increase the maximum output volume at the risk of introducing distortion
- **VOLUME:** output volume

I/O overview:

- **INPUT/OUTPUT:** use shielded 1/4” TS “instrument” cables. The input jack establishes the ground connection, so a TS cable must be plugged in to the input for the unit to power on.
- **POWER:** use standard 9V 2.1-mm center-negative “pedal power.” This circuit uses an internal regulator to roughly double the supply voltage. Do not exceed 9V.