

More Than You Want to Know About Treble Boosters



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1 Introduction

Treble boosters are specialized audio circuits designed to enhance the higher frequency range of an electric guitar. Originally developed in the 1960s to compensate for the tonal losses of early amplifiers and long cable runs, treble boosters selectively amplify mid-to-high frequencies, producing a brighter, more cutting sound that drives amplifier inputs into richer overdrive. This documentation provides an overview of treble booster design principles, common circuit topologies, typical component choices, and practical considerations for building and customizing treble booster effects.

While I commercialize pedals under the [Maple Booster](#) brand, a registered business in Ontario (Canada), these notes are a shared for free and under a small Open Hardware effort on my website.

Contributions are always welcome. Please send me an email to mapleboosterpedals@gmail.com.

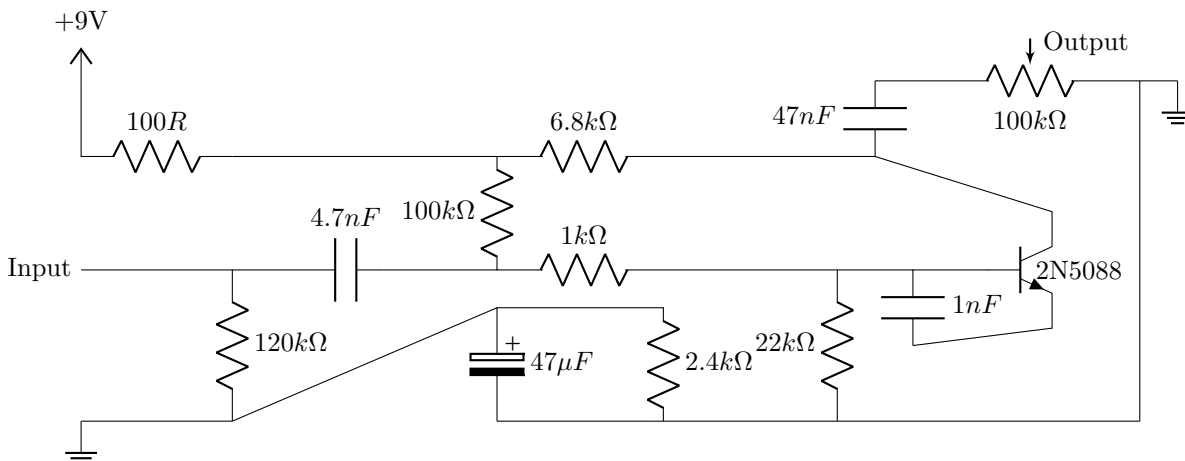
If these notes are useful to you, please consider [buying me a coffee](#) and it shall be used to expand these diagrams.

2 Brian May Treble Booster

Source: [DIY Strat](#).

Built and tested: Yes.

About: There is not a lot of information about this circuit. The site mentions Beavis Audio, but I could not find mentions to this effect on their website.



3 Rangemaster-like Treble Booster

There are multiple versions of this pedal, which at some point was commercialized as Ringmaster. I made some changes to use a commonly available NPN silicon transistor in 2025. The original does not have a volume control.

- Source: Adapted from [Greg Fryer](#) diagrams I backed up in 2016-18.
- Built and tested: Yes.

