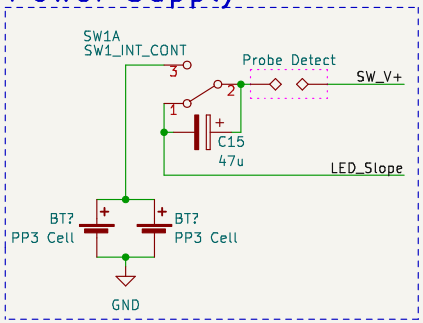
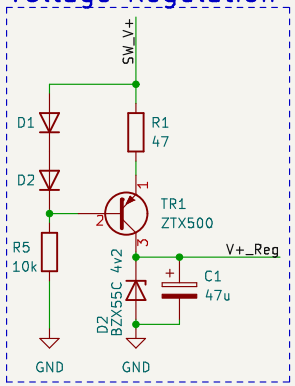
Power Supply



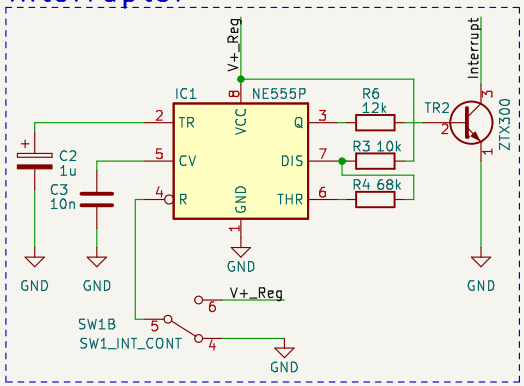
This area of the circuit is entirely redundant and serves no purpose in this situation –

The NE555 can handle a higher voltage than the TBA820M, and the PNP Transistor TR1 is unable to be switched.

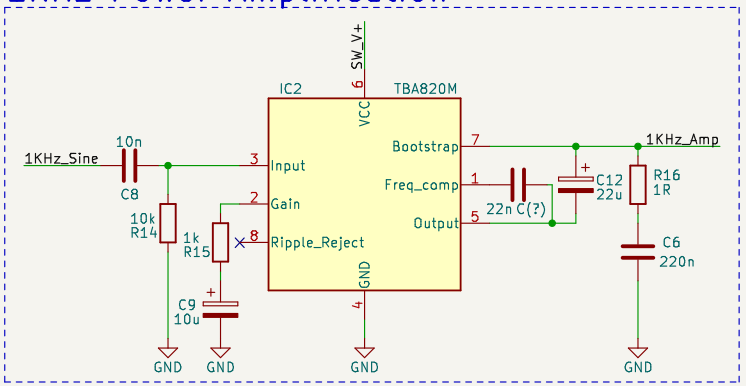
Voltage Regulation



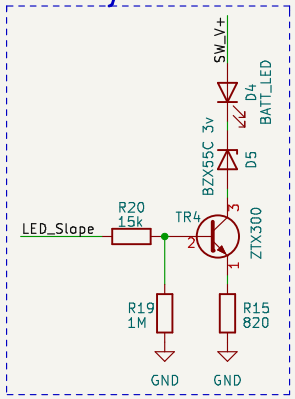
Interrupter



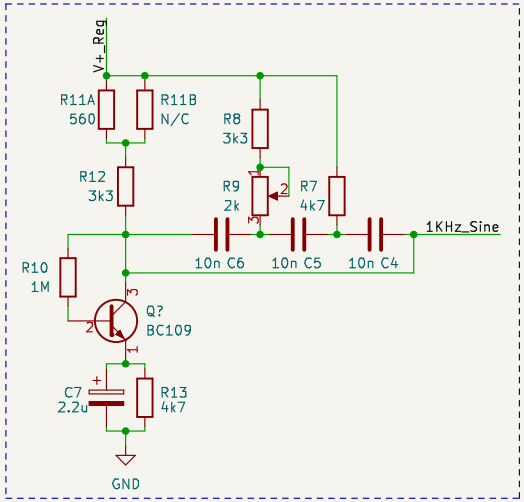
1KHz Power Amplification



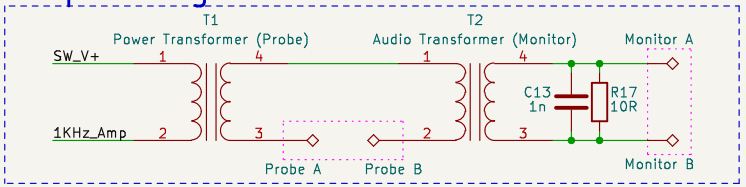
Battery LED



1KHz Generator



Output Stage



Notes:

Shunting TR1 and R1 – removing D1, D2, the Zener Diode, C1 and R5 will not harm the function of the device.

The TBA820M is a very unusual and outdated part, with lower than usual efficiency By adapting in any other 1.2W audio amplifyer, for example the LM386, will result in a more usable probe/monitor signal, with more efficiency.

My own device has been modified with the above notes, as well as an in–built speaker to the monitor signal, and an adjustable probe voltage. It serves as a very reliable audio frequency feed signal or wire prober.

See notes for modifications

Reverse Engineered by ADBeta

Sheet: /
File: BT_87F_Oscillator.kicad_sch

Title: BT 87F Oscillator

Size: A4	Date: 29 Oct 2022	**Rev:**
KiCad E.D.A. kicad (6.0.9)		Id: 1/1