

bias\_generator\_and\_trem\_oscillator.sch  
File: bias\_generator\_and\_trem\_oscillator.kicad\_sch

power\_supply  
File: power\_supply.kicad\_sch

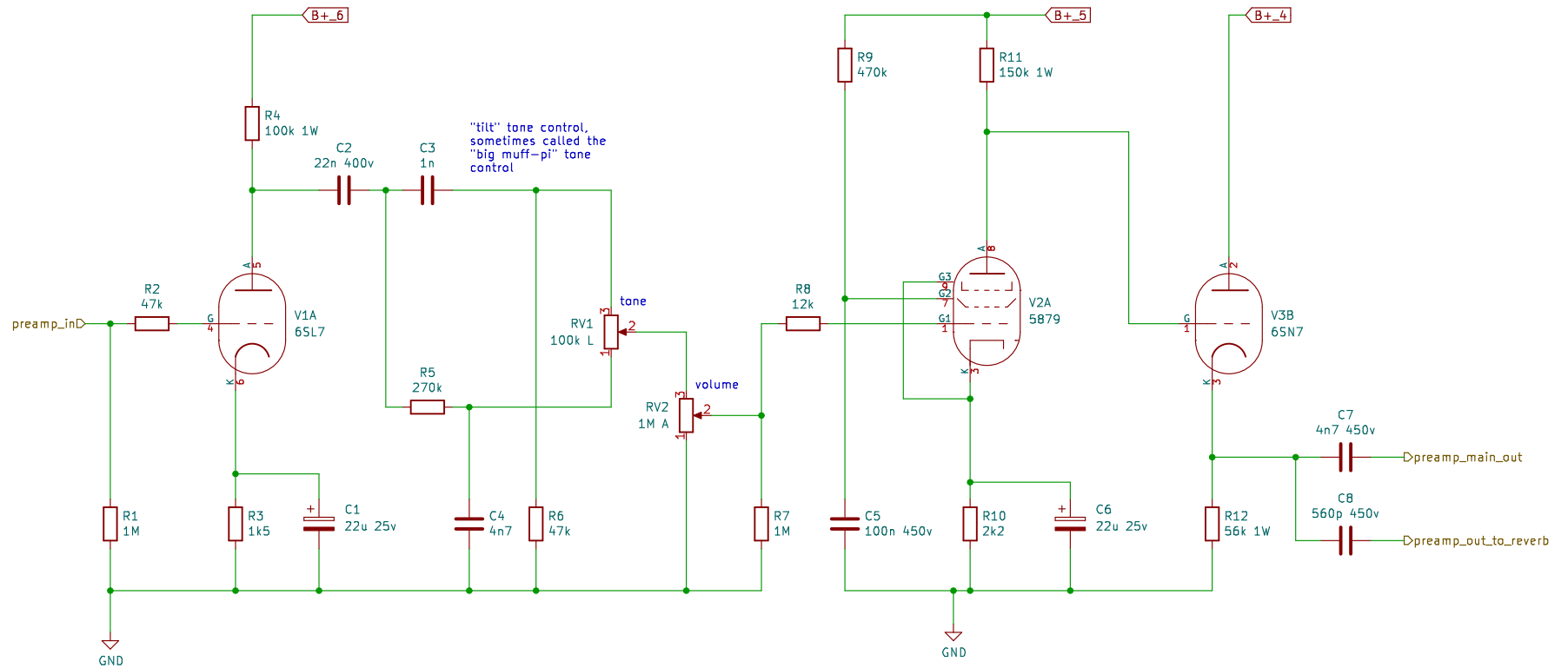
Author: Jordan Aceto  
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File: cf\_tube\_amp.kicad\_sch

**Title: cf 12 watt class AB tube amp**

Size: A4 Date: 2022-01-03  
KiCad E.D.A. kicad 6.0.0-d3dd2cf0fa-116-ubuntu20.04.1

Rev: 0  
Id: 1/7



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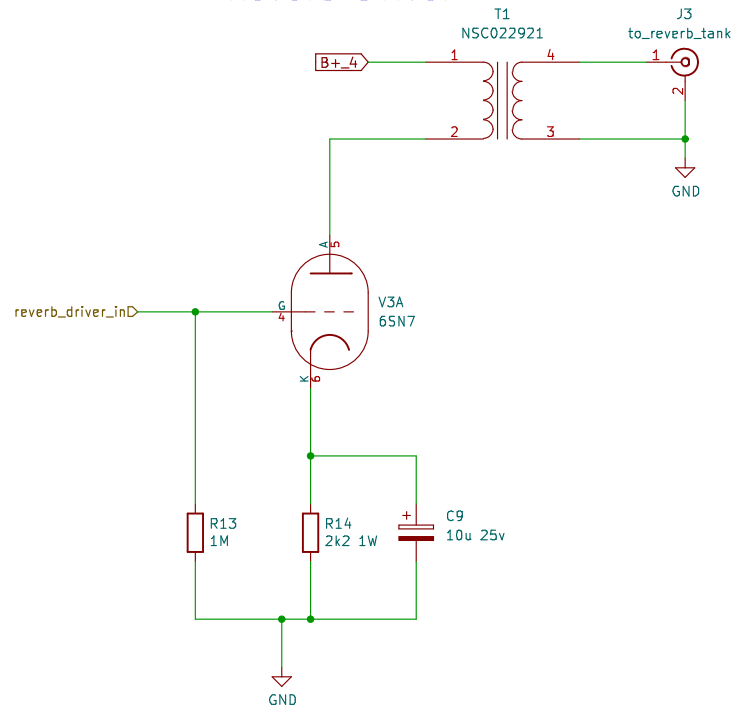
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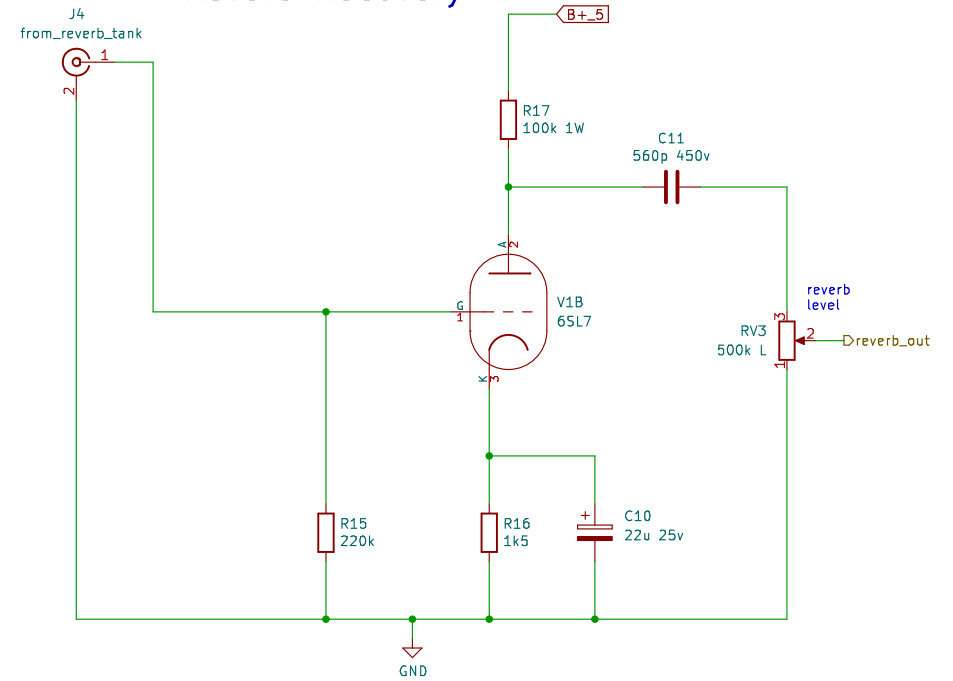
Size: A4 Date: 2022-01-03  
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Rev: 0  
 Id: 2/7

## Reverb Driver



## Reverb Recovery



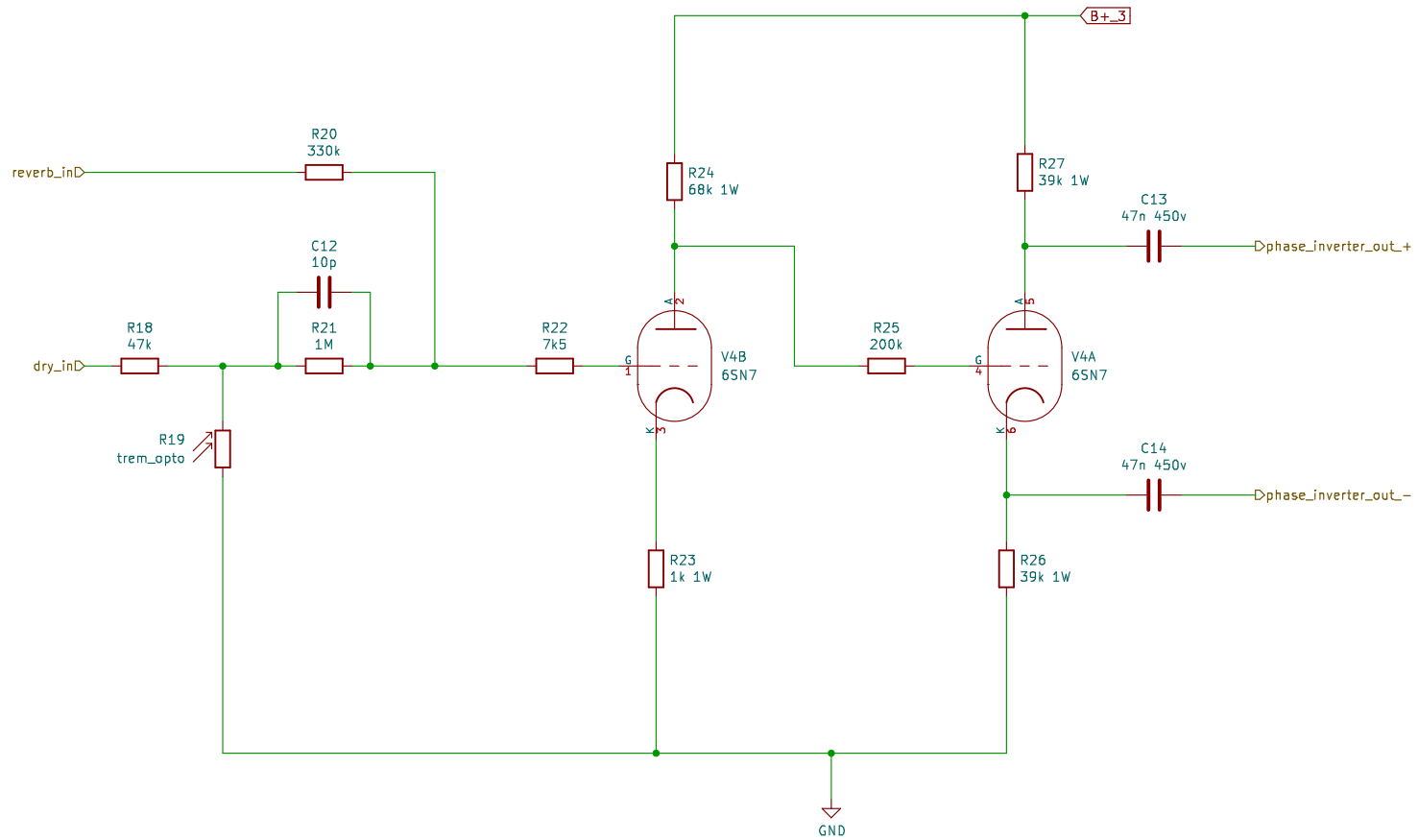
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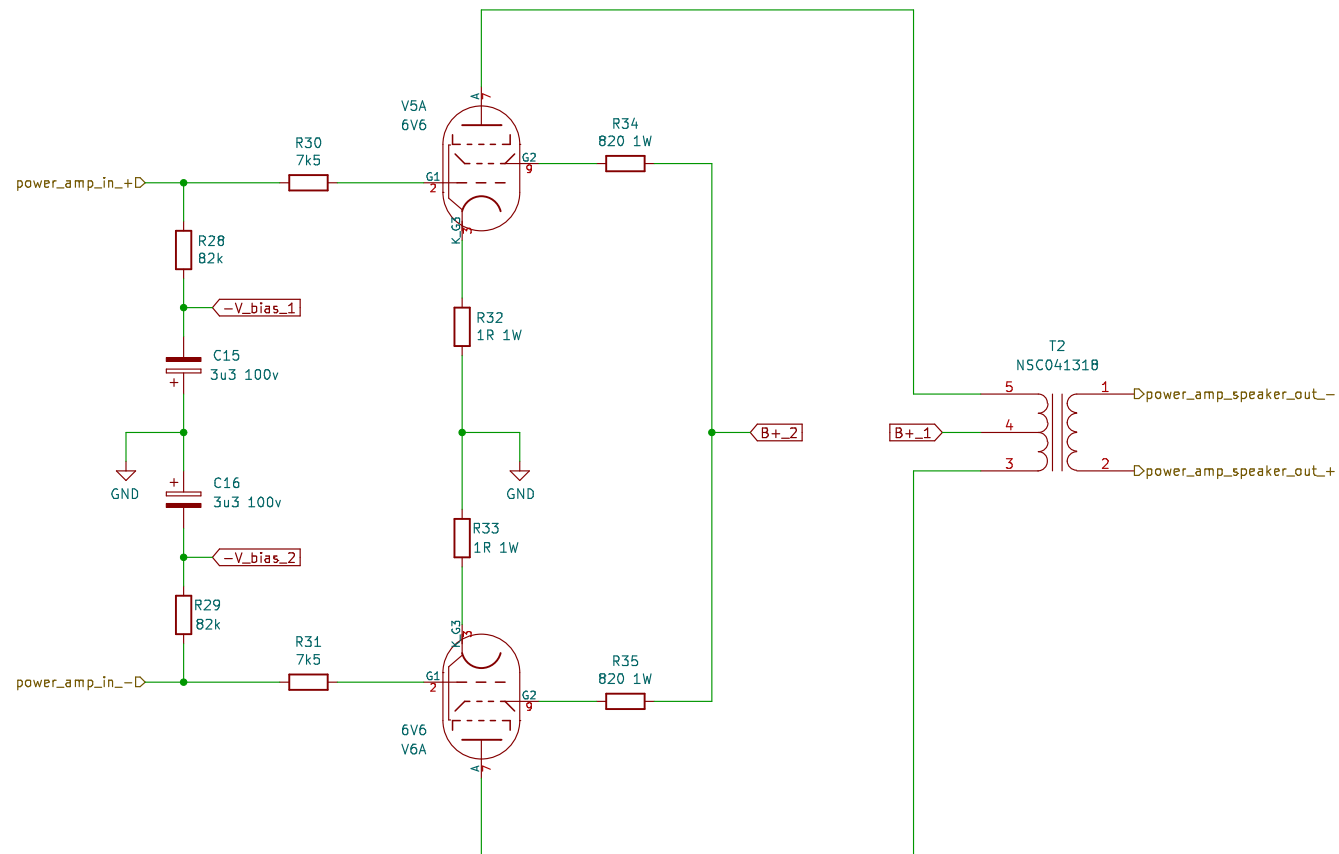
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Sheet: /phase\_inverter/  
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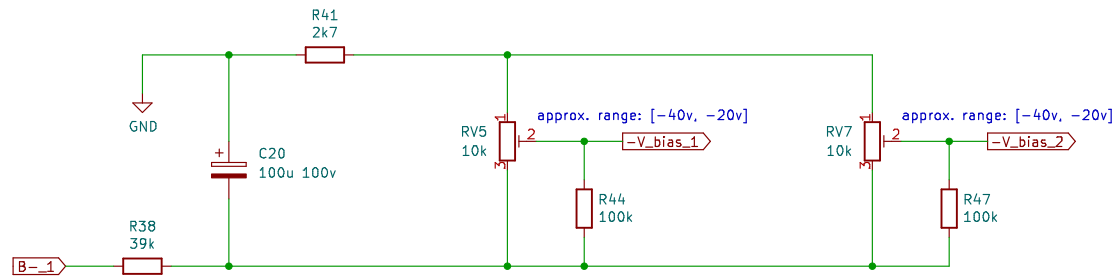
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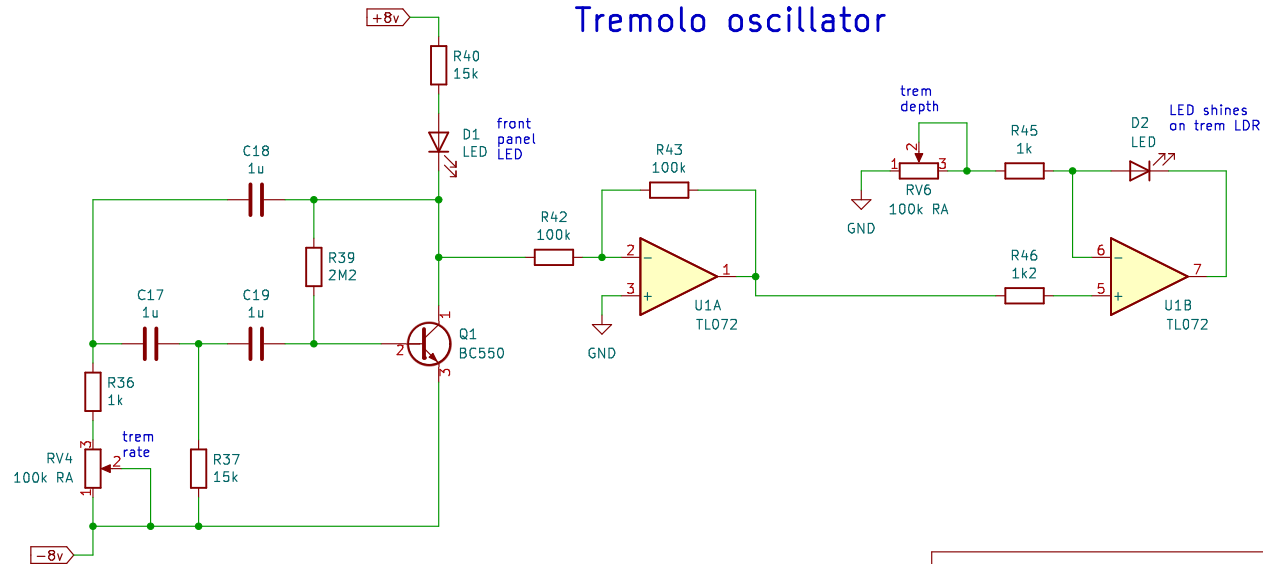
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Rev: 0  
 Id: 5/7

## 6V6 bias voltage generator



## Tremolo oscillator



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120 VAC in

approximately  
350mA @ idle  
650mA @ max

J5  
iec\_power\_entry

F1  
1A sb

SW1  
power\_on

T3  
power\_transformer

HVAC

6.3VAC

5VAC

375 VDC

370 VDC

330 VDC

310 VDC

300 VDC

295 VDC

B+\_1

B+\_2

B+\_3

B+\_4

B+\_5

B+\_6

D3  
1N4007

D7  
1N4007

L1  
9H 200mA

R48  
3k 5W

R49  
3k 1W

R50  
2k2 1W

R51  
820 1W

C23  
47u 450v

C24  
47u 450v

C25  
22u 450v

C26  
22u 450v

C27  
22u 450v

C28  
22u 450v

D4  
1N4007

D8  
1N4007

GND

hum  
balance

RV8  
500R 1W

GND

D5  
1N4007

C21  
470u 50v

C22  
470u 50v

D6  
1N4007

+8v

-8v

V1C  
6SL7

V2B  
5879

V3C  
6SN7

V4C  
6SN7

V5B  
6V6

V6B  
6V6

LA1  
Lamp

All voltages  
and currents  
are approximate

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