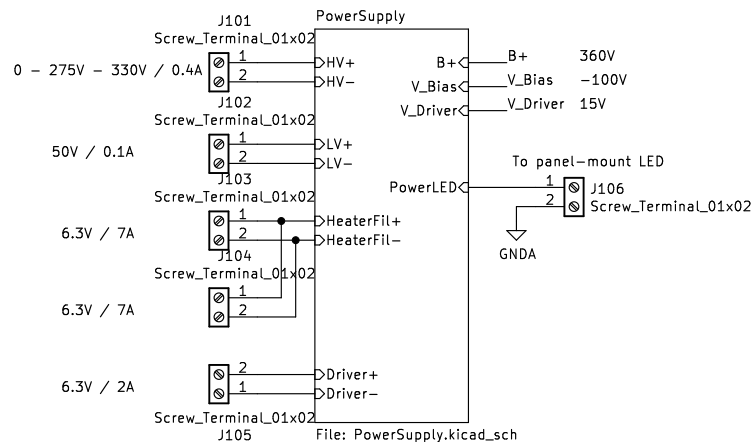
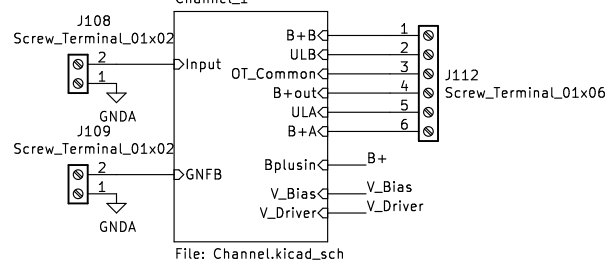


Notes / Questions

Power Transformer Inputs
Toroidy
TSTA 0250/001

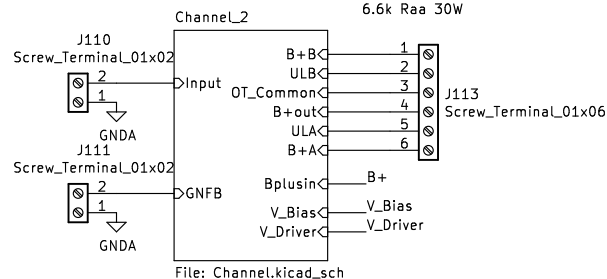


Channel 1 Input



Channel 1 Output Transformer
Primary Windings
PWPP30W6K6
6.6k Raa 30W

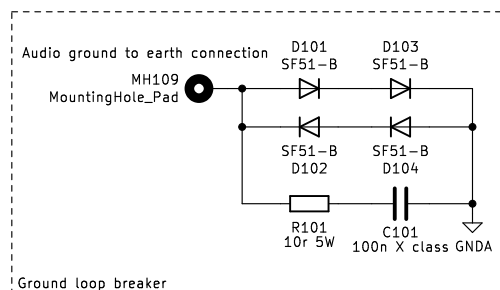
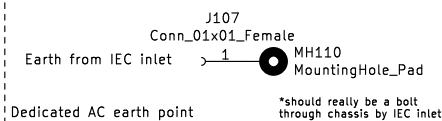
Channel 2 Input



Channel 2 Output Transformer
Primary Windings
PWPP30W6K6
6.6k Raa 30W

- MH101 MountingHole
- MH102 MountingHole
- MH103 MountingHole
- MH104 MountingHole
- MH105 MountingHole
- MH106 MountingHole
- MH107 MountingHole
- MH108 MountingHole

Mounting holes



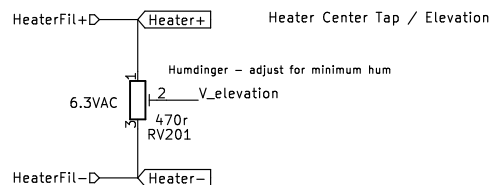
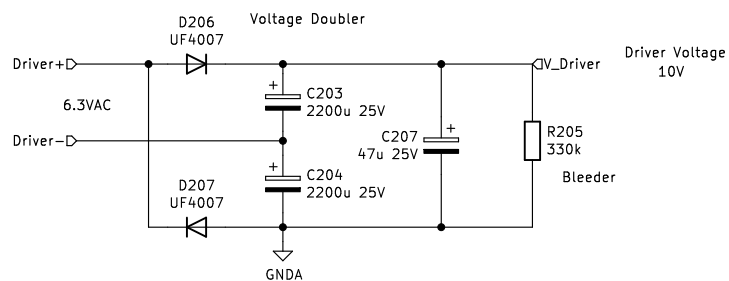
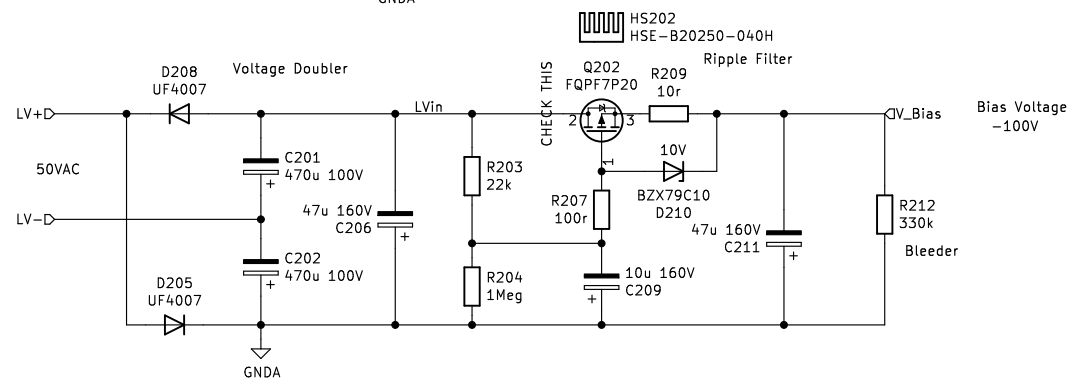
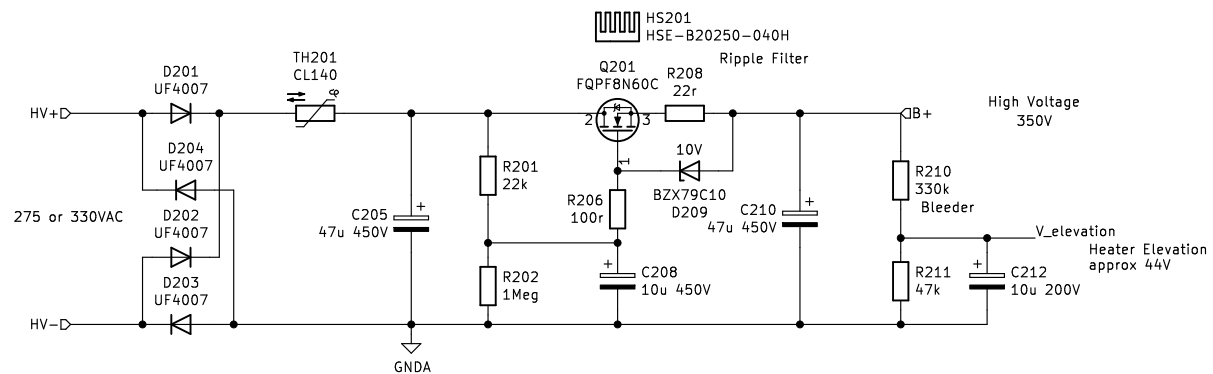
Sheet: /
File: BabyHuey.kicad_sch

Title: Baby Huey – "Engineer's Version"

Size: A4 Date: 2021-04-25

KiCad E.D.A. kicad (6.0.0-0)

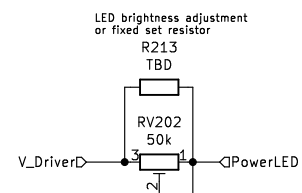
Rev:
Id: 1/4



Notes

- * Both FETs are encapsulated in plastic
- no isolation pad / shoulders needed
- use heat transfer pad / paste

The regulator gives protection to inrush
Max V across the 22r resistor is $V_Z - V_{GS} = 10 - 4 = 6$
Max current is $6/22 = 270\text{mA}$



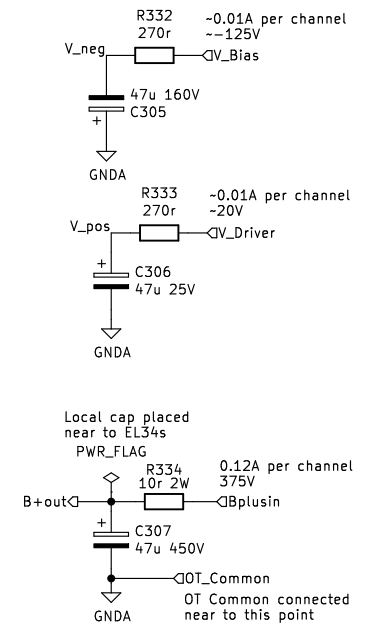
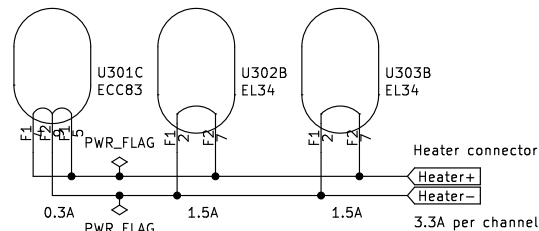
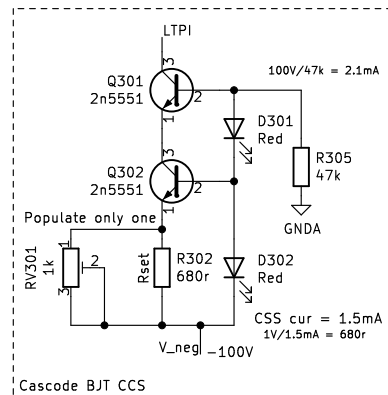
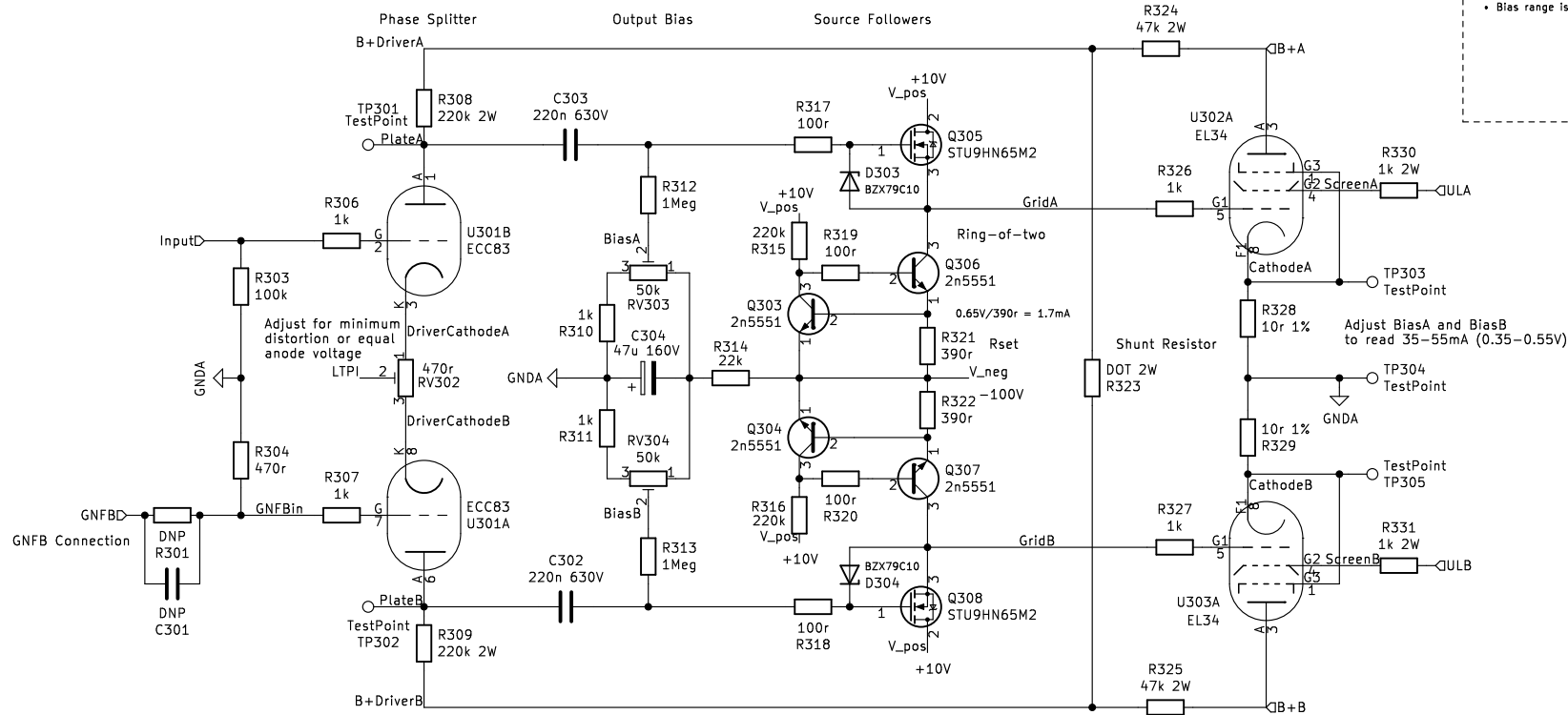
Sheet: /PowerSupply/
File: PowerSupply.kicad_sch

Title: Baby Huey – "Engineer's Version" – Power Supply

Size: A4 Date: Rev:
KiCad E.D.A. kicad (6.0.0-0) Id: 2/4

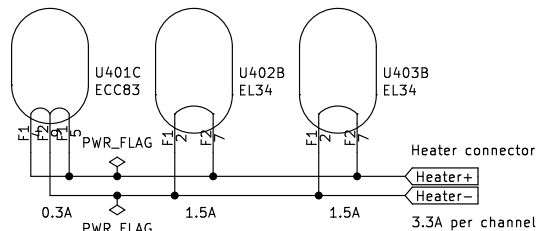
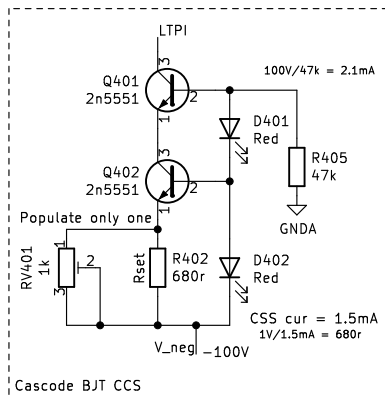
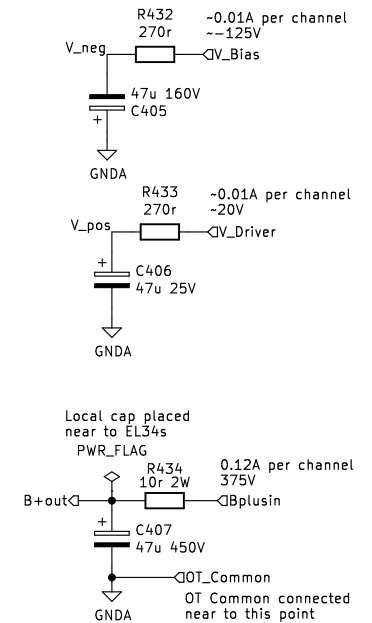
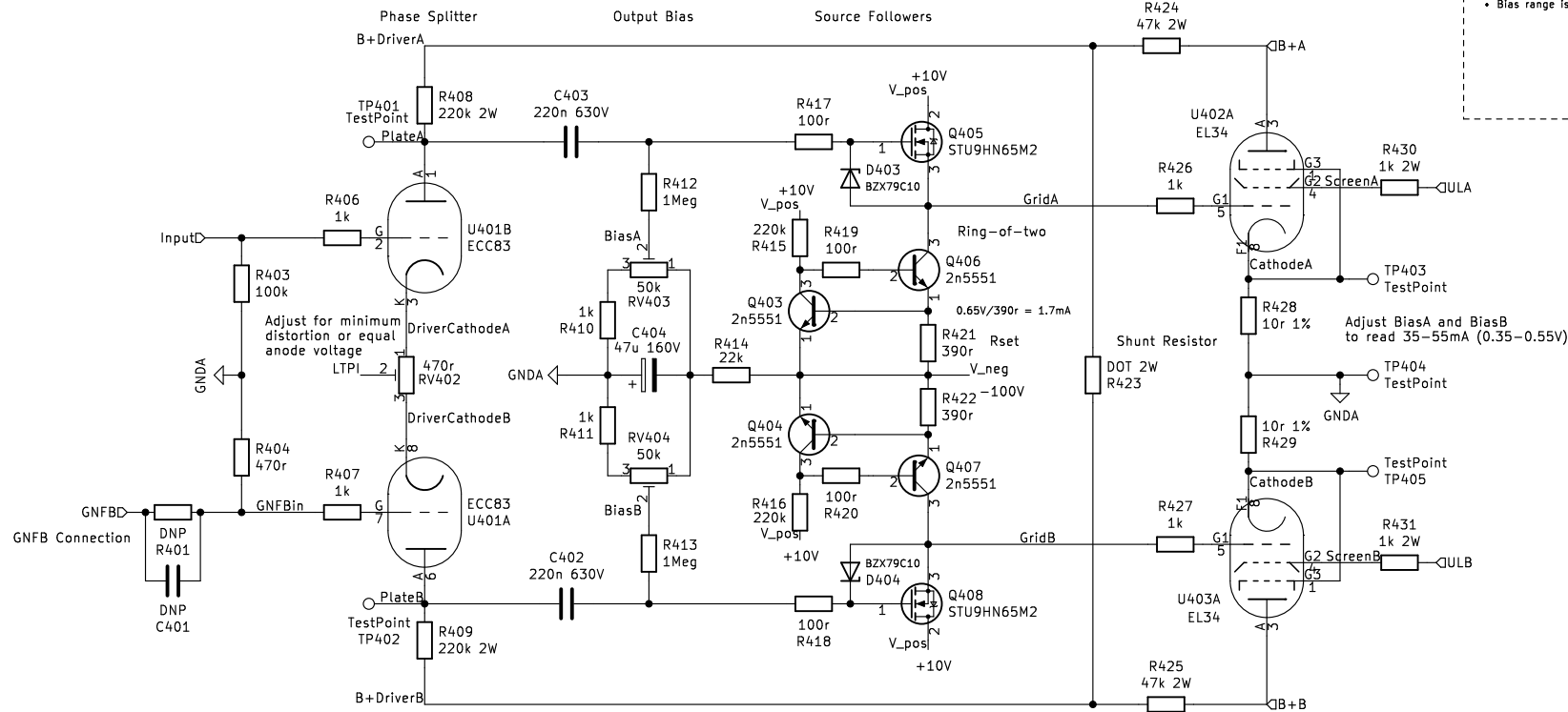
Notes / Questions

- What value for Shunt Resistor? 22k or 33k according to forum. 39k is too large.
- Could increase the source follower current to 2.4mA – use 270r
- However, lower starts to stress the 2N5551 dissipation limit.
- Bias range is -1V to -70V



Notes / Questions

- What value for Shunt Resistor? 22k or 33k according to forum. 39k is too large.
- Could increase the source follower current to 2.4mA – use 270r
- However, lower starts to stress the 2N5551 dissipation limit.
- Bias range is -1V to -70V



Sheet: /Channel2/

File: Channel.kicad_sch

Title: Baby Huey – "Engineer's Version" – Channel

Size: A4

Date:

KiCad E.D.A. kicad (6.0.0-0)

Rev:

Id: 4/4