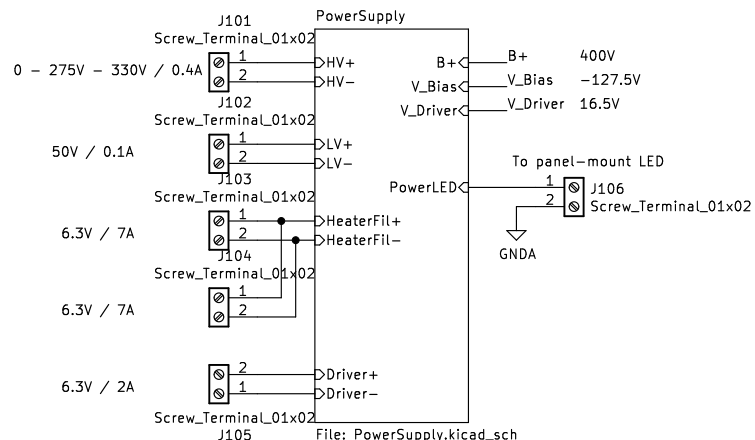
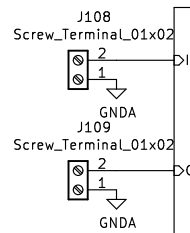


# Notes / Questions

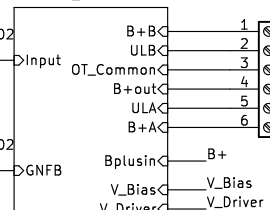
Power Transformer Inputs  
Toroidy  
TSTA 0250/001



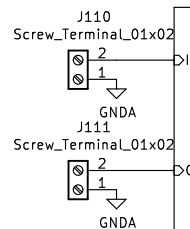
Channel 1 Input



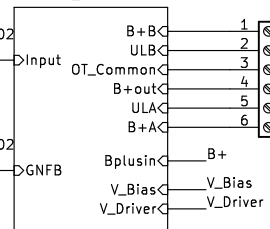
Channel 1 Output Transformer  
Primary Windings  
PWPP30W6K6  
6.6k Raa 30W 40% UL taps



Channel 2 Input

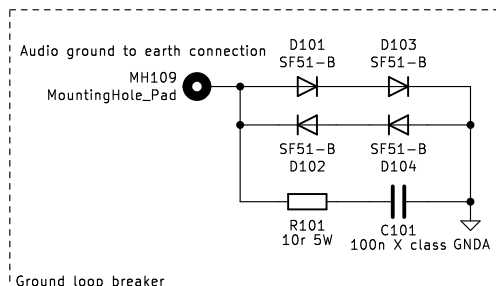
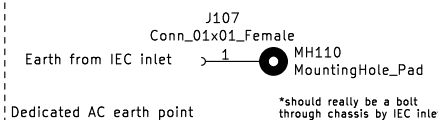


Channel 2 Output Transformer  
Primary Windings  
PWPP30W6K6  
6.6k Raa 30W 40% UL taps



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

Mounting holes

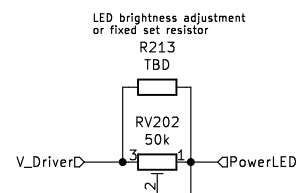
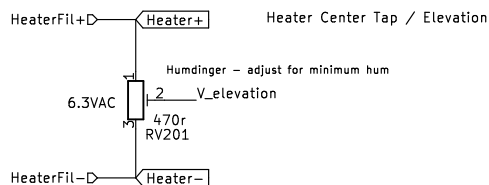
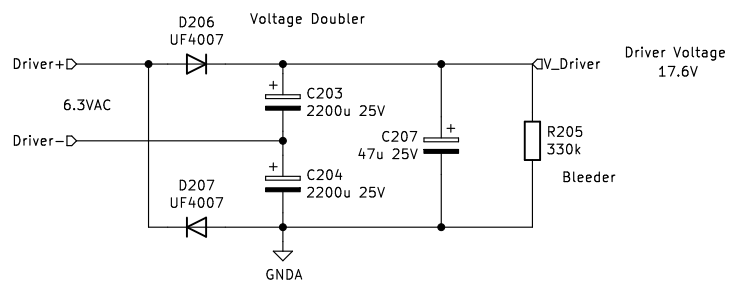
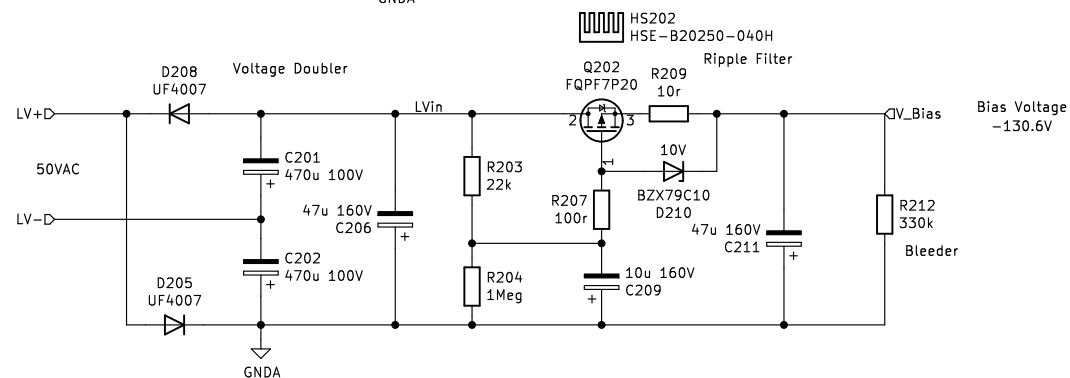
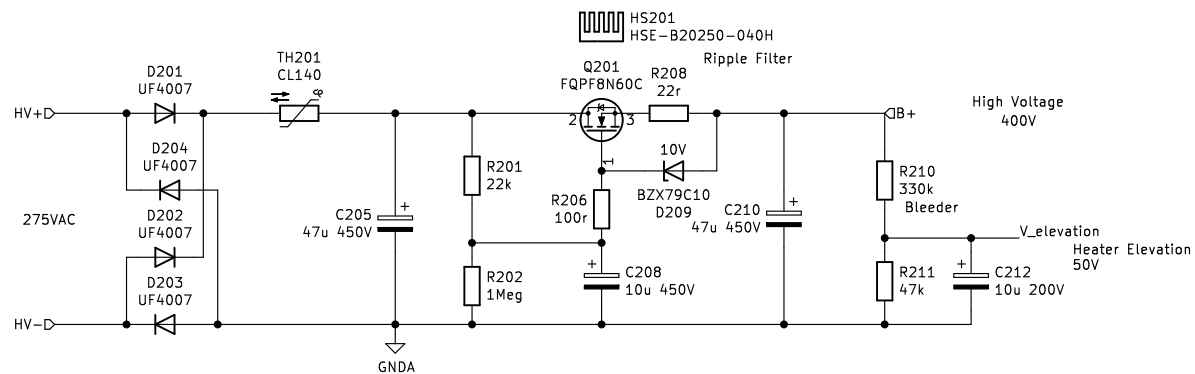


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**Title: Baby Huey – "Engineer's Version"**

Size: A4 Date: 2021-04-25  
KiCad E.D.A. kicad (6.0.2-0)

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  $6/22 = 270\text{mA}$

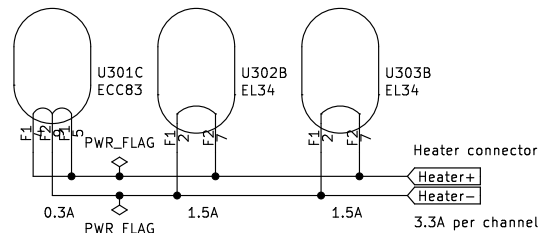
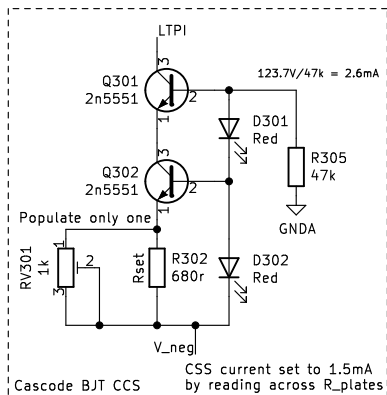
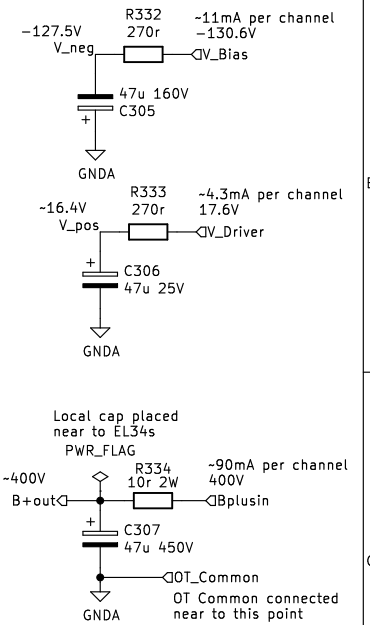
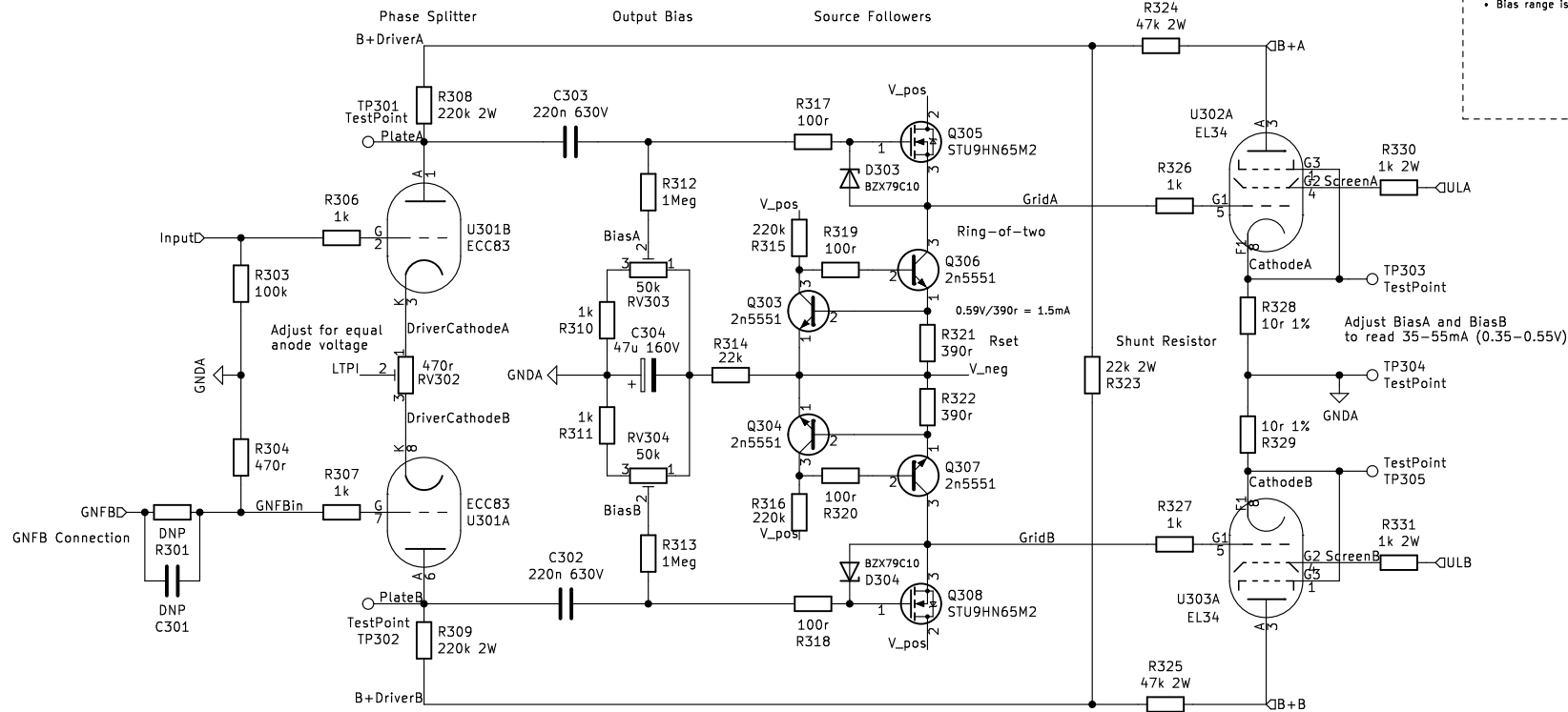
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File: PowerSupply.kicad\_sch

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

Size: A4 Date: Rev:  
KiCad E.D.A. kicad (6.0.2-0) 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



Sheet: /Channel\_1/  
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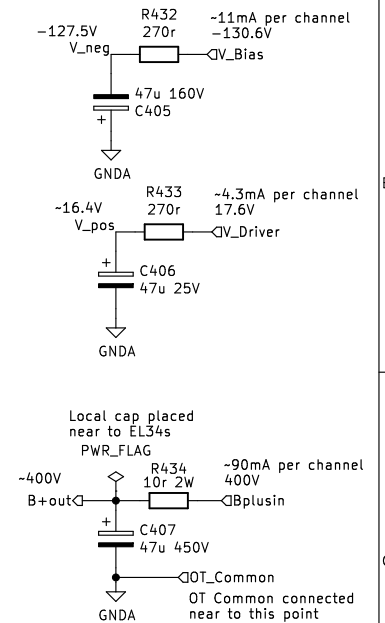
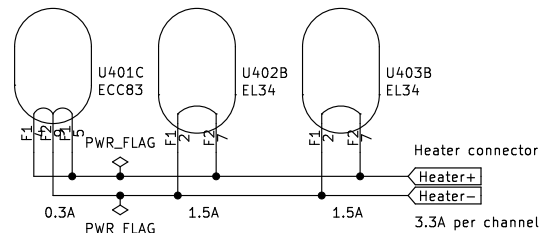
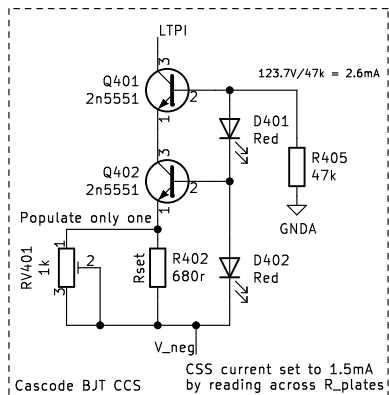
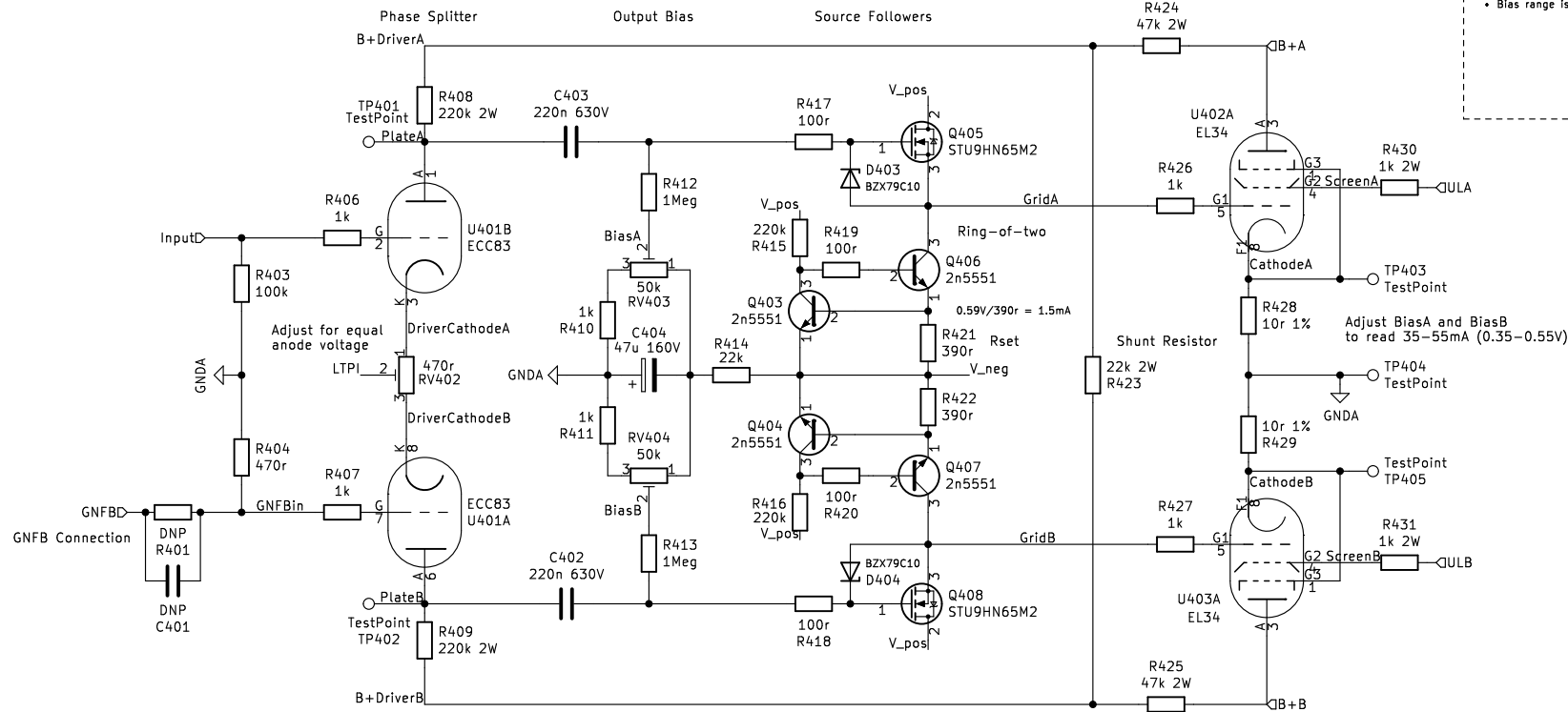
**Title: Baby Huey – "Engineer's Version" – Channel**

Size: A4 Date: KiCad E.D.A. kicad (6.0.2-0)

Rev: Id: 3/4

## 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



Sheet: /Channel2/

File: Channel.kicad\_sch

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

Size: A4

Date:

KiCad E.D.A. kicad (6.0.2-0)

Rev:

Id: 4/4