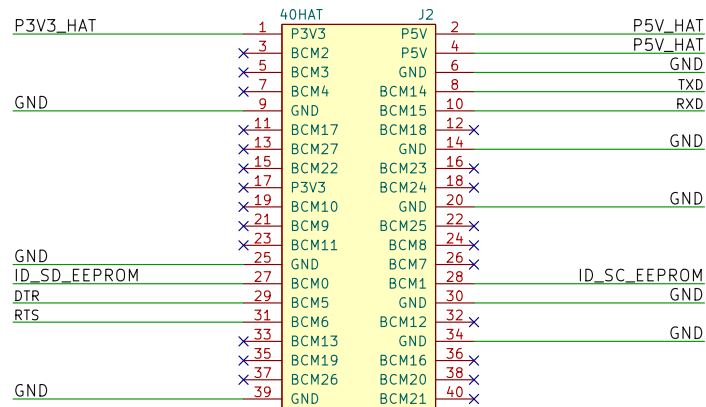


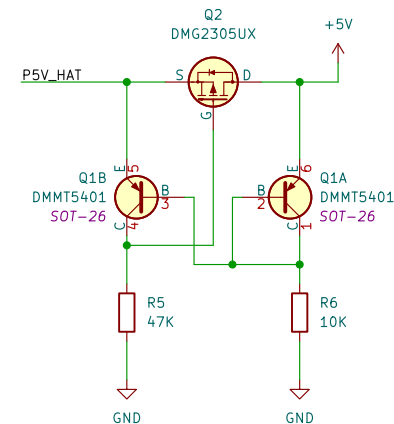
Sheet: /		
File: Control_board.kicad_sch		
Title: Raspberry Pi HAT		
Size: A4	Date:	Rev: A
KiCad E.D.A. kicad 6.0.2-378541a8eb-116-ubuntu21.10.1		Id: 1/5

This is based on the official Raspberry Pi spec to be able to call an extension board a HAT.
<https://github.com/raspberrypi/hats/blob/master/designguide.md>

40-Pin HAT Connector

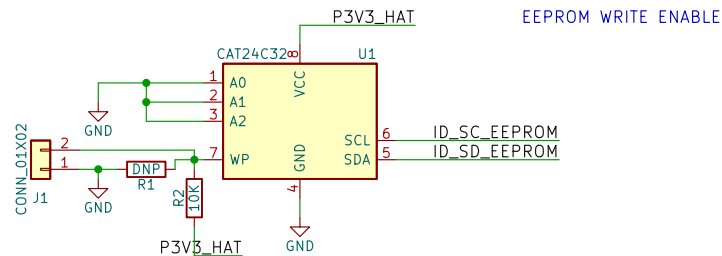


5V back power protection

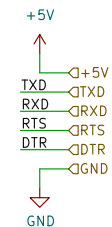


HAT EEPROM

The HAT spec requires this EEPROM with system information to be in place in order to be called a HAT. It should be set up as write protected (WP pin held high), so it may be desirable to either put a jumper as shown to enable writing, or to hook up a spare IO pin to do so.

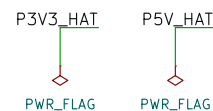
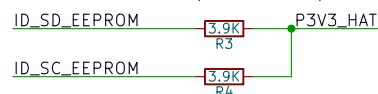


Mounting Holes



Pullup Resistors

These are just pullup resistors for the I2C bus on the EEPROM. The resistor values are per the HAT spec.



Sheet: /Pi Hat/
 File: Pi_Hat.kicad_sch

Title:

Size: A4

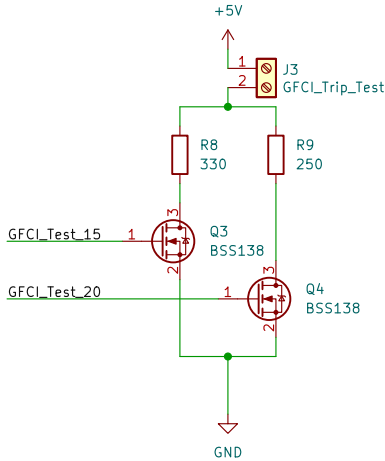
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KiCad E.D.A. kicad 6.0.2-378541a8eb-116-ubuntu21.10.1

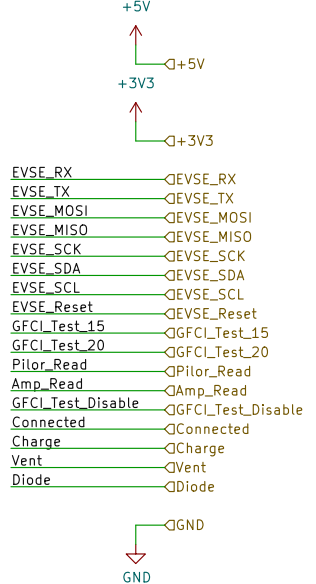
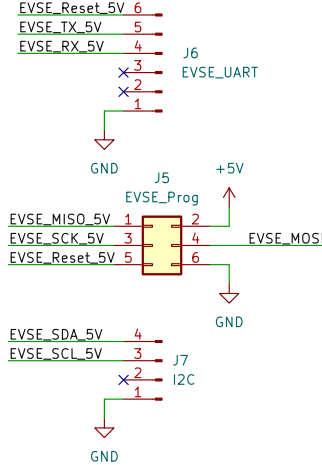
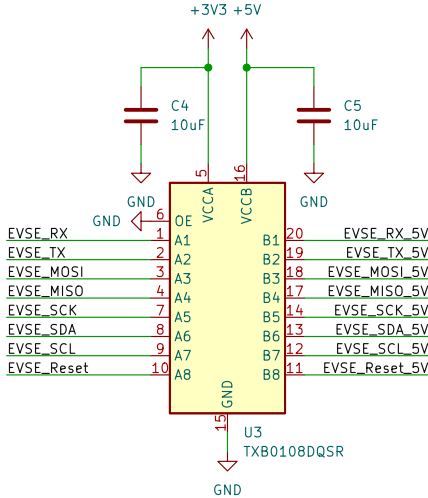
Rev:

Id: 2/5

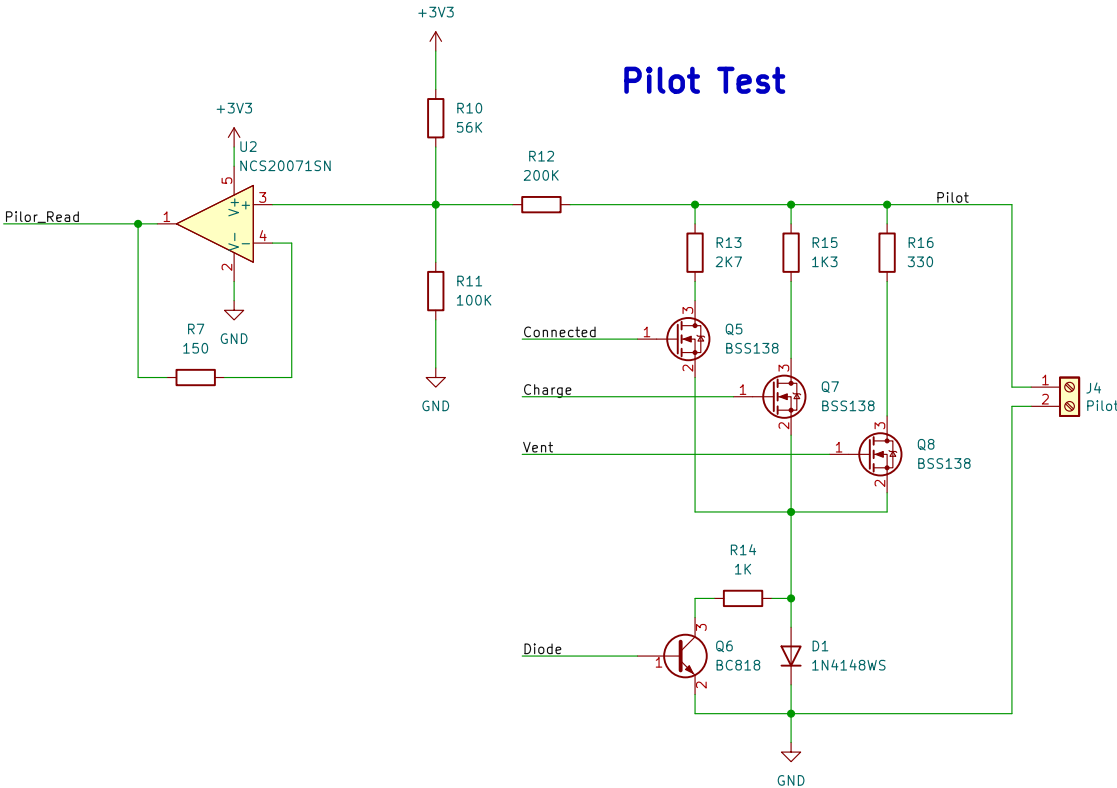
GFCI Trip Test



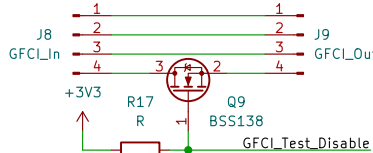
EVSE Digital Connections



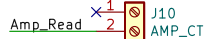
Pilot Test



GFCI Enable



CT Output

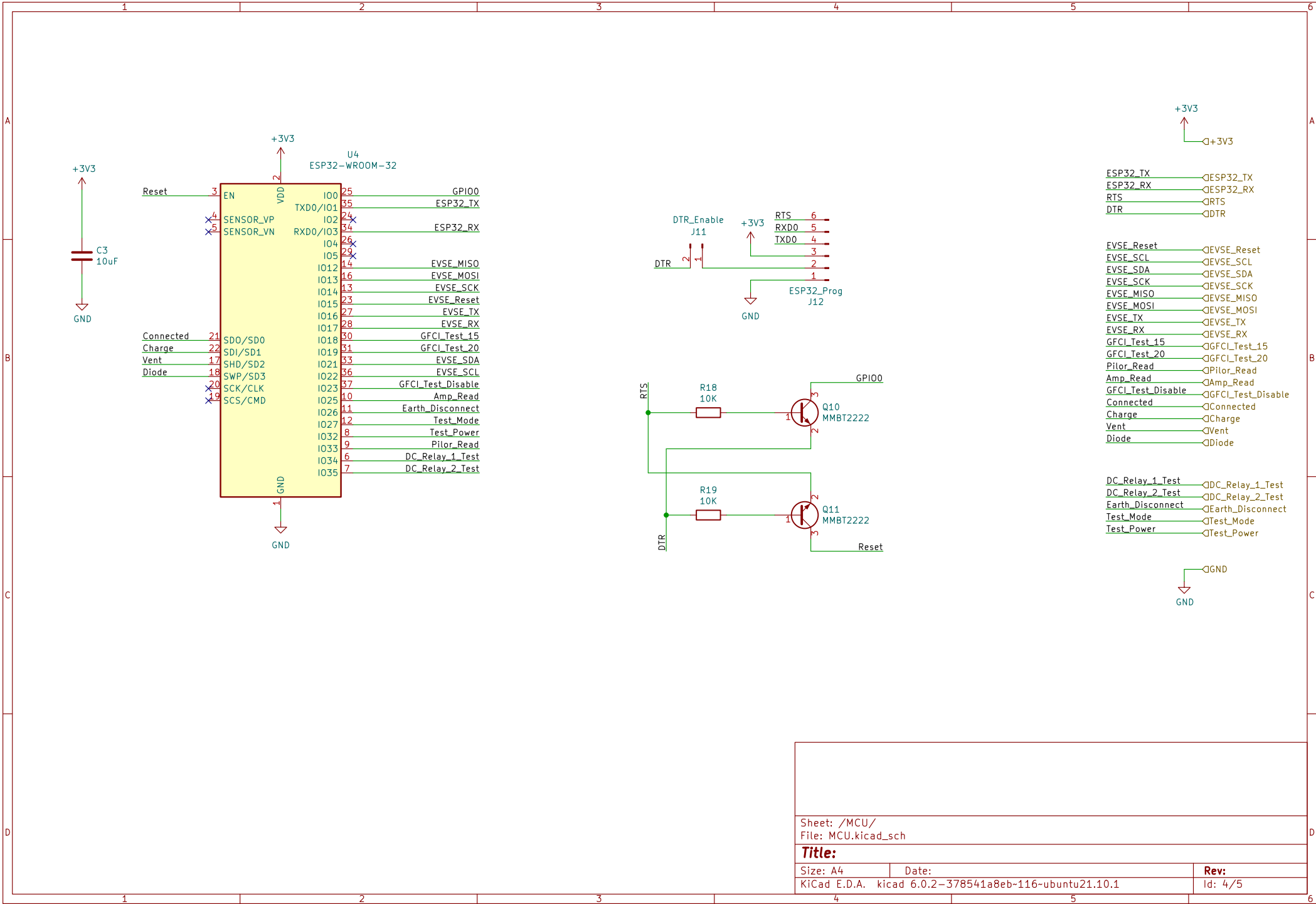


Sheet: /Tester/
File: Tester.kicad_sch

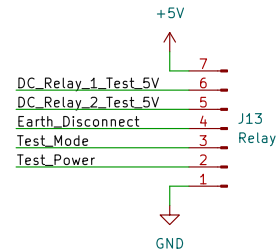
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Size: A4	Date:
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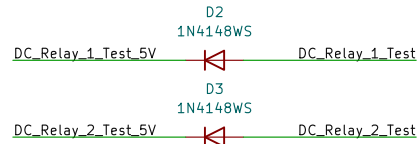
Rev:
Id: 3/5



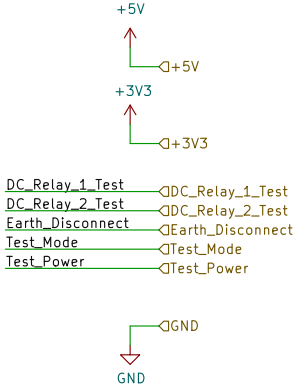
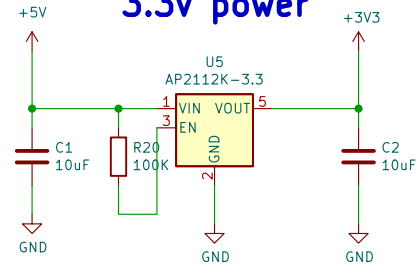
Relay Board Connector



Level shift Inputs



3.3v power



Sheet: /Relay Board/ File: Relay_Board.kicad_sch		
Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. kicad 6.0.2-378541a8eb-116-ubuntu21.10.1		Id: 5/5