

D4 and R9 are not assembled on the board.

Fix: C1b was added, because C1 is far away from VCC/GND pins in older through-hole models.

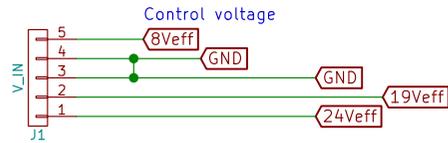
Reverse engineered
Michael Büsch <m@buesch.ch>

Sheet: /
 File: lf1600.sch

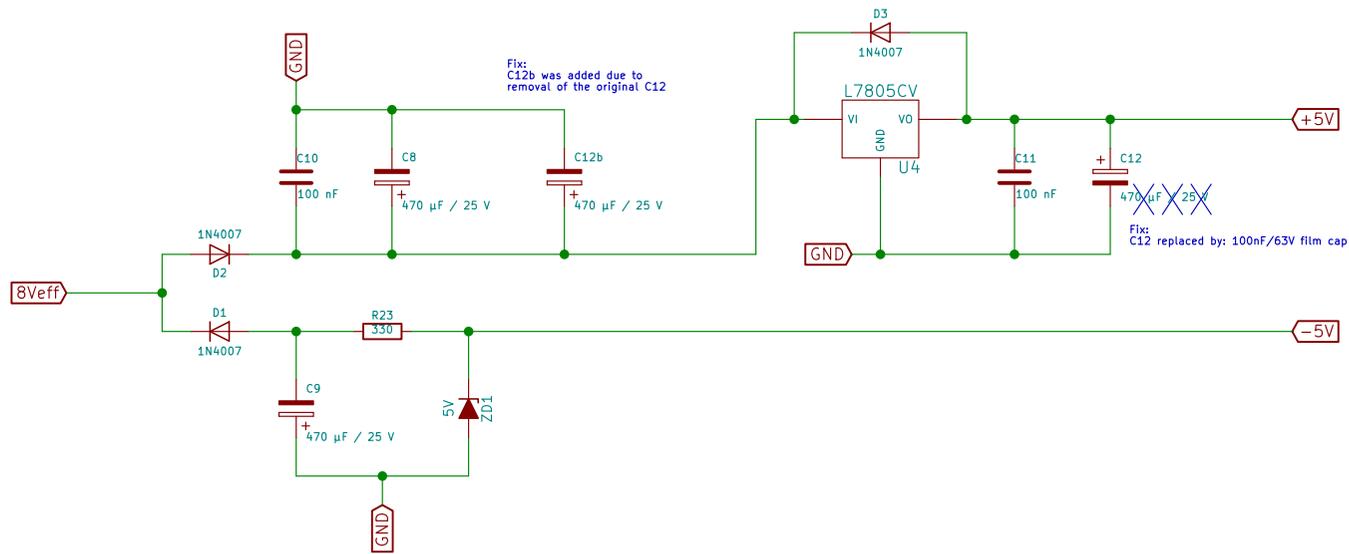
Title: Xytronic LF-1600

Size: A4 Date:
 KiCad E.D.A. kicad 4.0.5+dfsg1-4

Rev: 1.1
 Id: 1/5



Supply voltage
 19Veff is not connected
 24Veff is labeled as "24V", but actually is 31 V (eff)



Fix:
 C12b was added due to
 removal of the original C12

Fix:
 C12 replaced by: 100nF/63V film cap

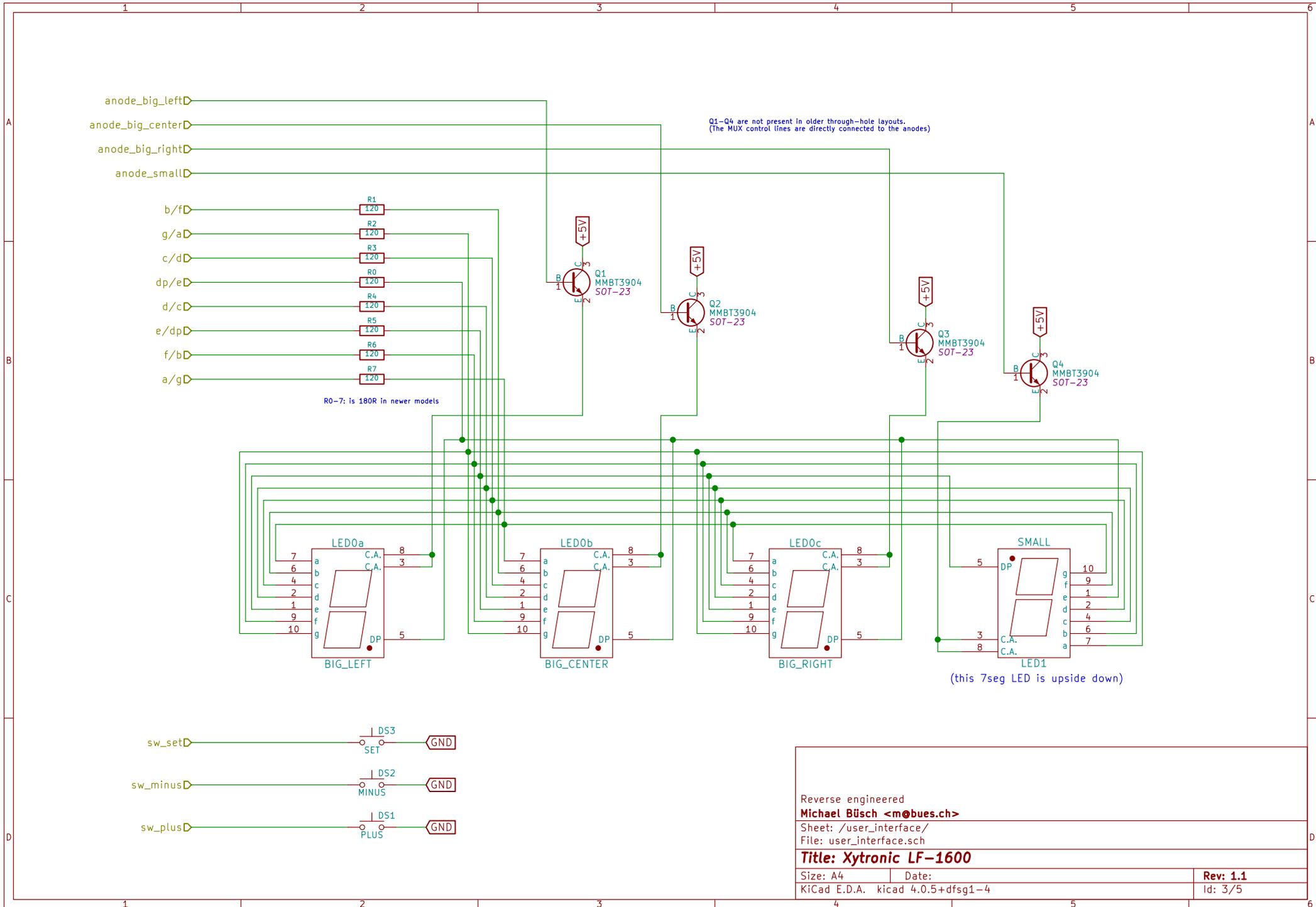
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Sheet: /supply/
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Title: Xytronic LF-1600

Size: A4 Date:
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Rev: 1.1
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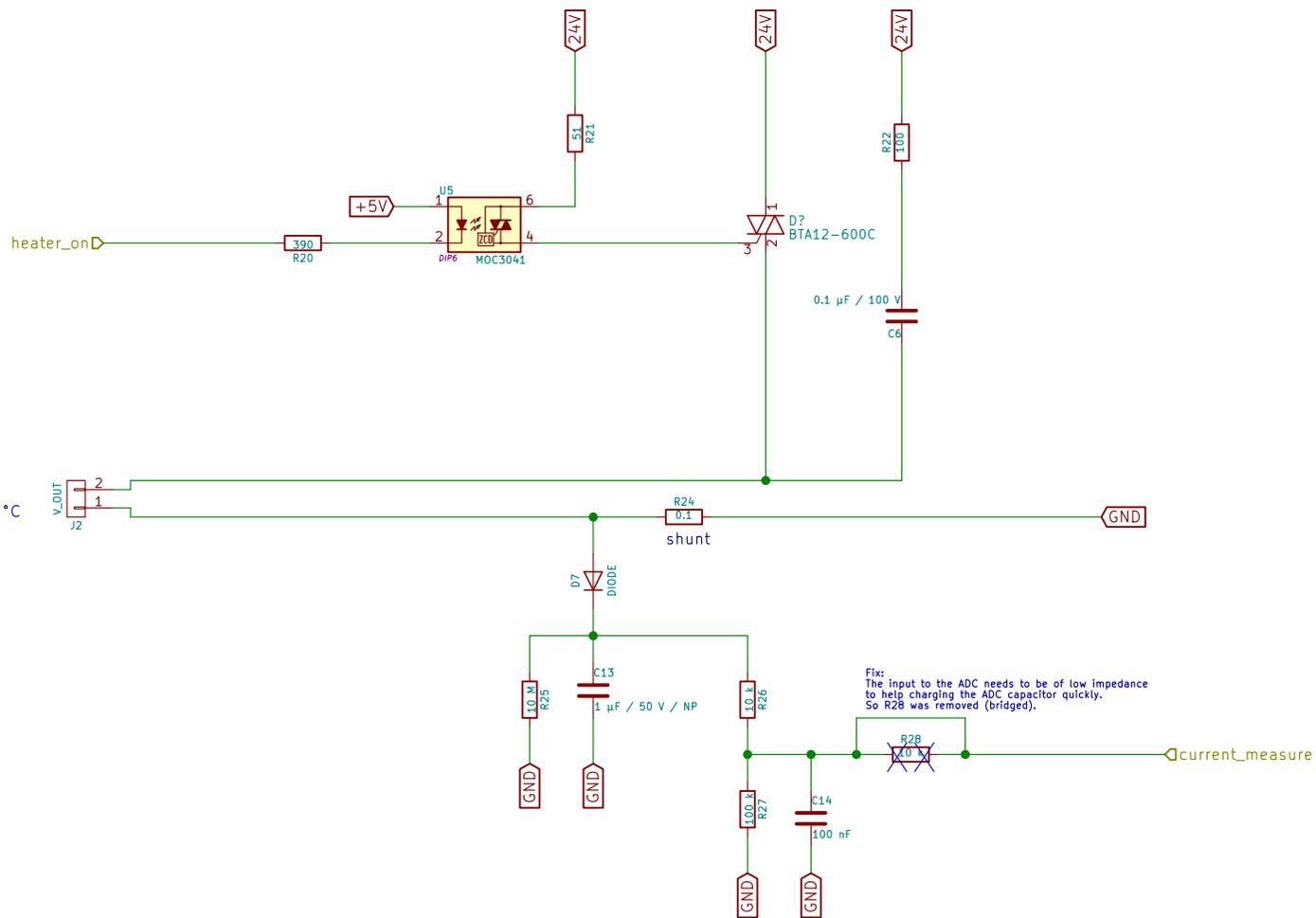


Q1-Q4 are not present in older through-hole layouts.
(The MUX control lines are directly connected to the anodes)

R0-7: is 180R in newer models

(this 7seg LED is upside down)

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Sheet: /user_interface/	
File: user_interface.sch	
Title: Xytronic LF-1600	
Size: A4	Date:
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Heater element
 $R = 3.5 \text{ Ohms @ } 20 \text{ }^\circ\text{C}$

Fix:
 The input to the ADC needs to be of low impedance
 to help charging the ADC capacitor quickly.
 So R28 was removed (bridged).

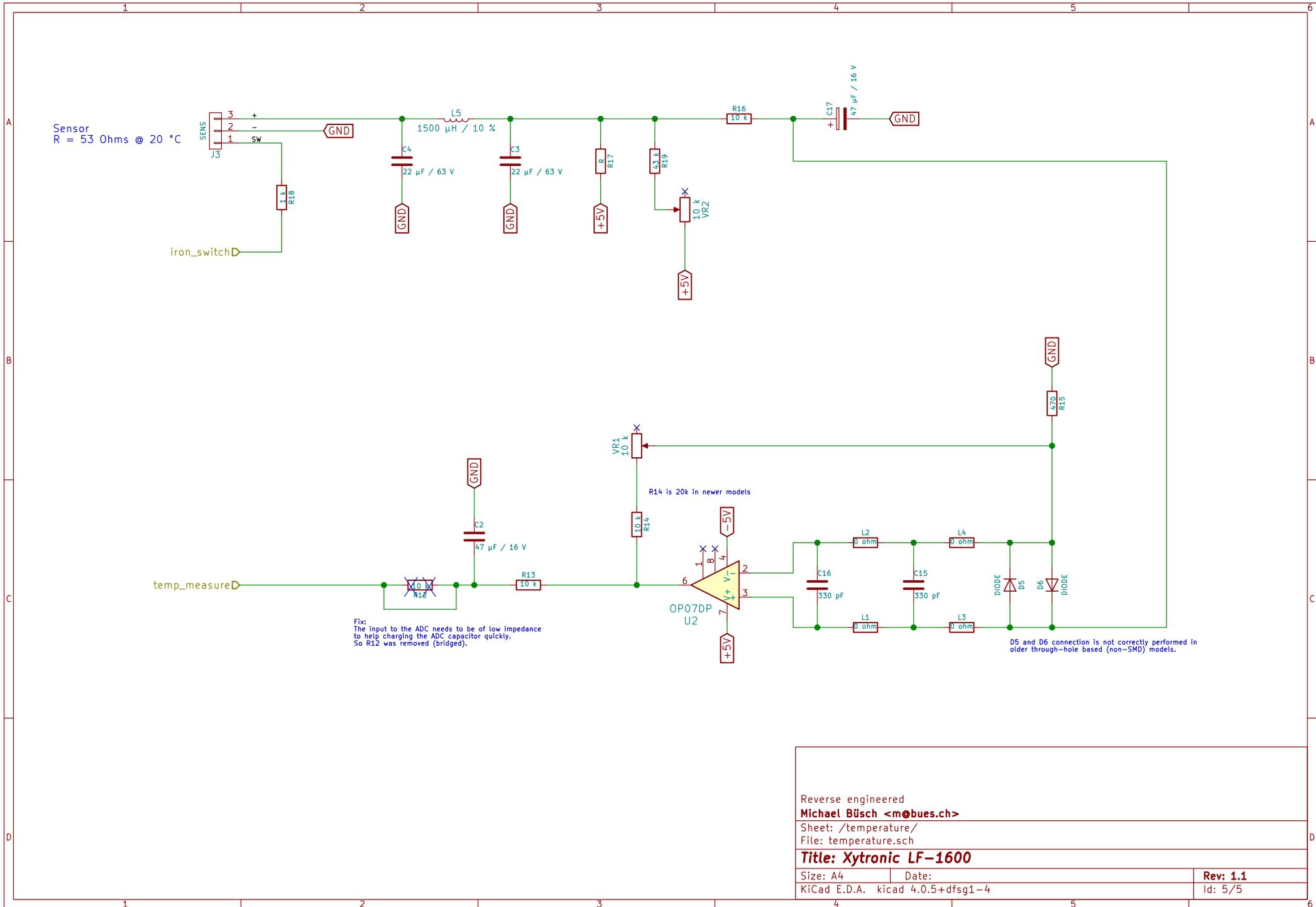
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Sheet: /heater/
 File: heater.sch

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Sheet: /temperature/
 File: temperature.sch

Title: Xytronic LF-1600

Size: A4 Date:
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Rev: 1.1
 Id: 5/5