

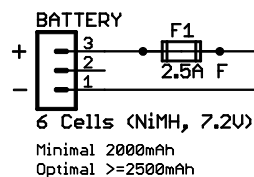
**SUPPLY VOLTAGE:**

+UB max: 10V

+UB RECOMMENDED: 7.2V &lt;---

+UB min: 5.5V

Observe correct polarity!

**CHARGE JACK POLARITY**

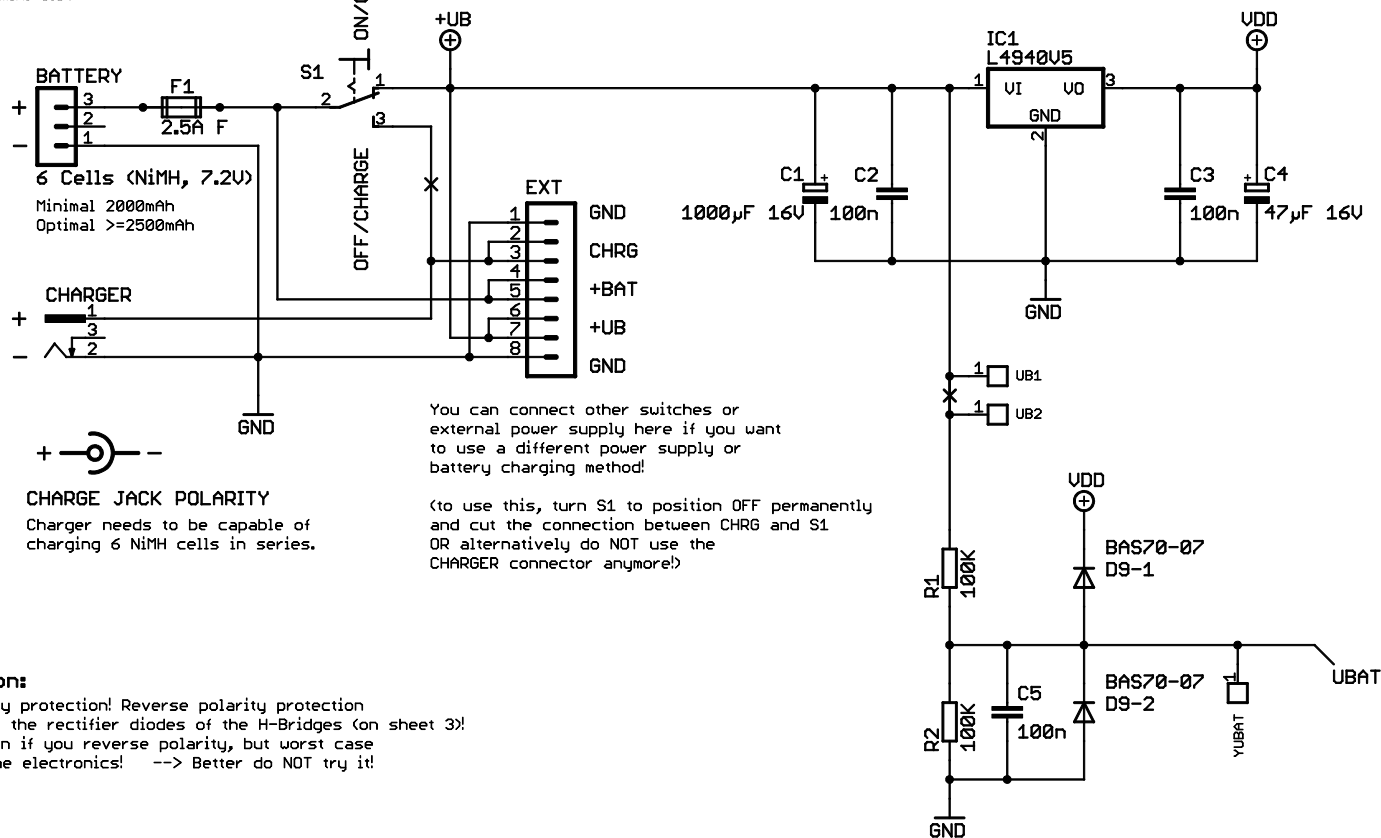
Charger needs to be capable of charging 6 NiMH cells in series.

You can connect other switches or external power supply here if you want to use a different power supply or battery charging method!

(to use this, turn S1 to position OFF permanently and cut the connection between CHRG and S1 OR alternatively do NOT use the CHARGER connector anymore!)

**Reverse polarity protection:**

There is NO global reverse polarity protection! Reverse polarity protection is only achieved with Fuse F1 and the rectifier diodes of the H-Bridges (on sheet 3)! Usually only the Fuse will be blown if you reverse polarity, but worst case you could damage some parts of the electronics! --> Better do NOT try it!

**RP6 ROBOT SYSTEM**

[C] AREXX ENGINEERING

<http://www.arexx.com/>

designed by Dominik S. Herwald

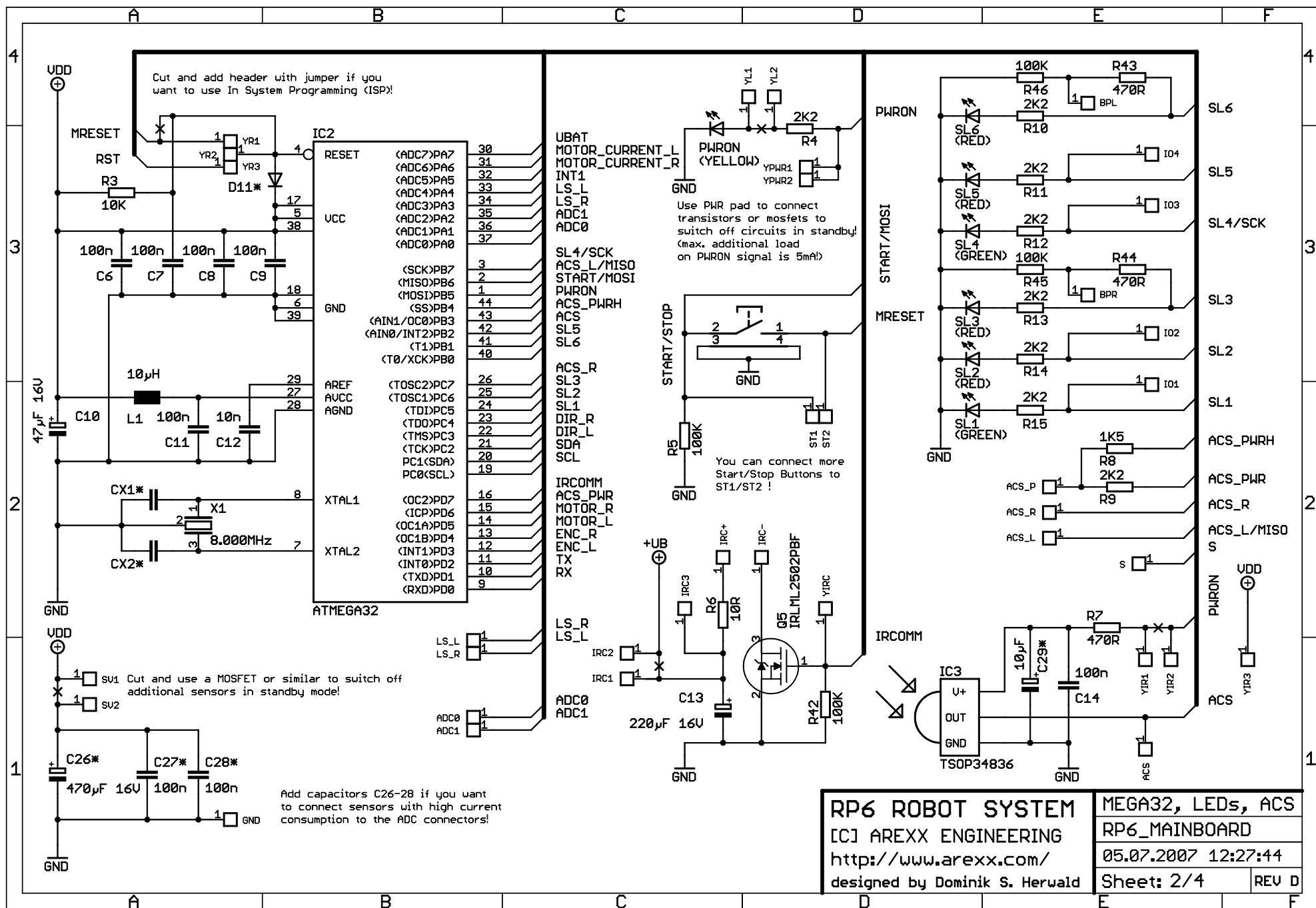
**POWER SUPPLY**

RP6\_MAINBOARD

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Sheet: 1/4

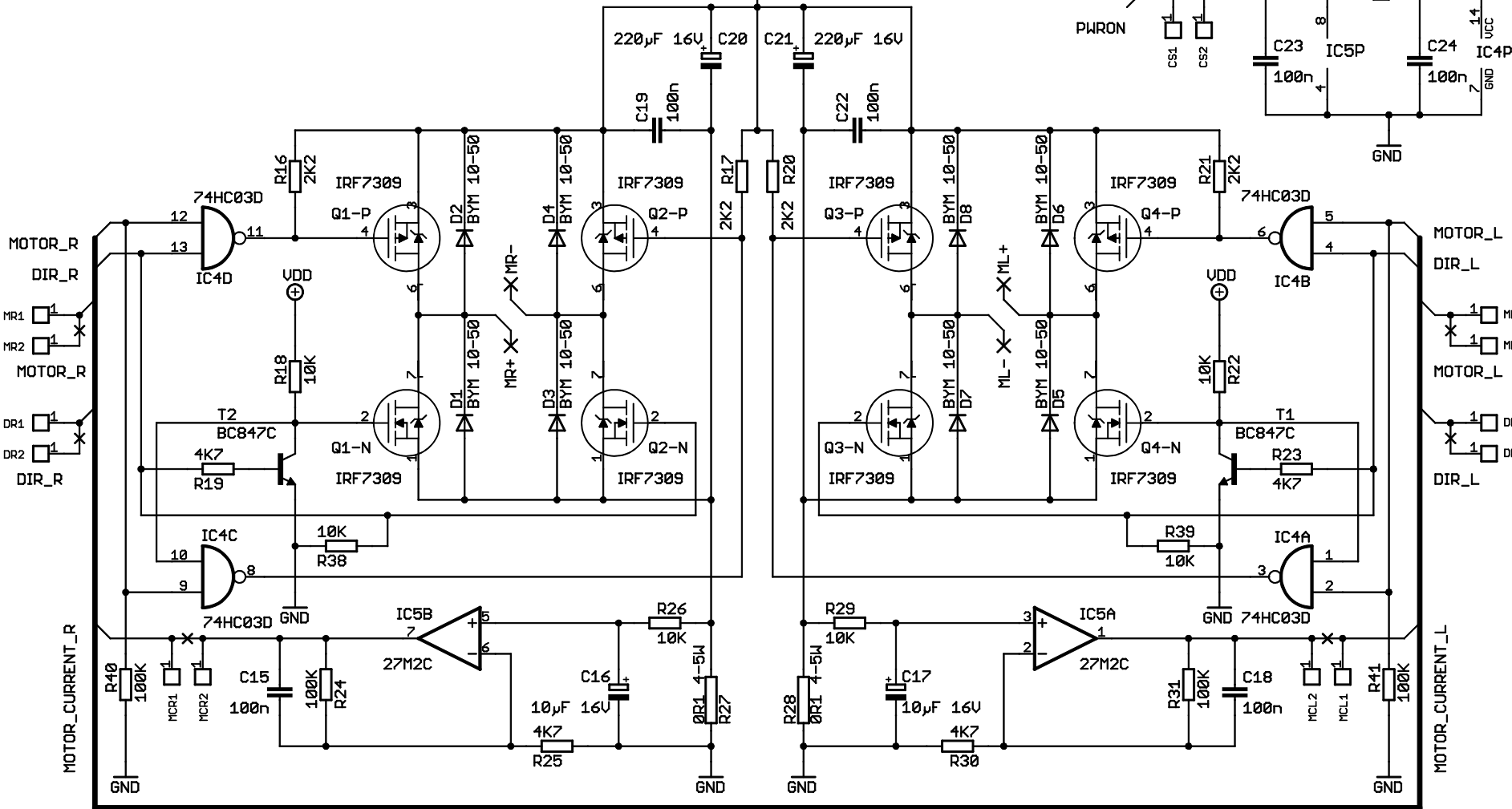
REV D



# DUAL MOTOR H-BRIDGE

PEAK DC-Motor current: 3A  
 Continuous DC-Motor current: 2A  
 Current measurement max.: ca. 1.8A (+/-15% variation of resistors!)

It is possible to use a second power supply only for the Motors - have a look at the pads under the main fuse!



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MOTOR H-BRIDGES

RP6\_MAINBOARD

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REV D

