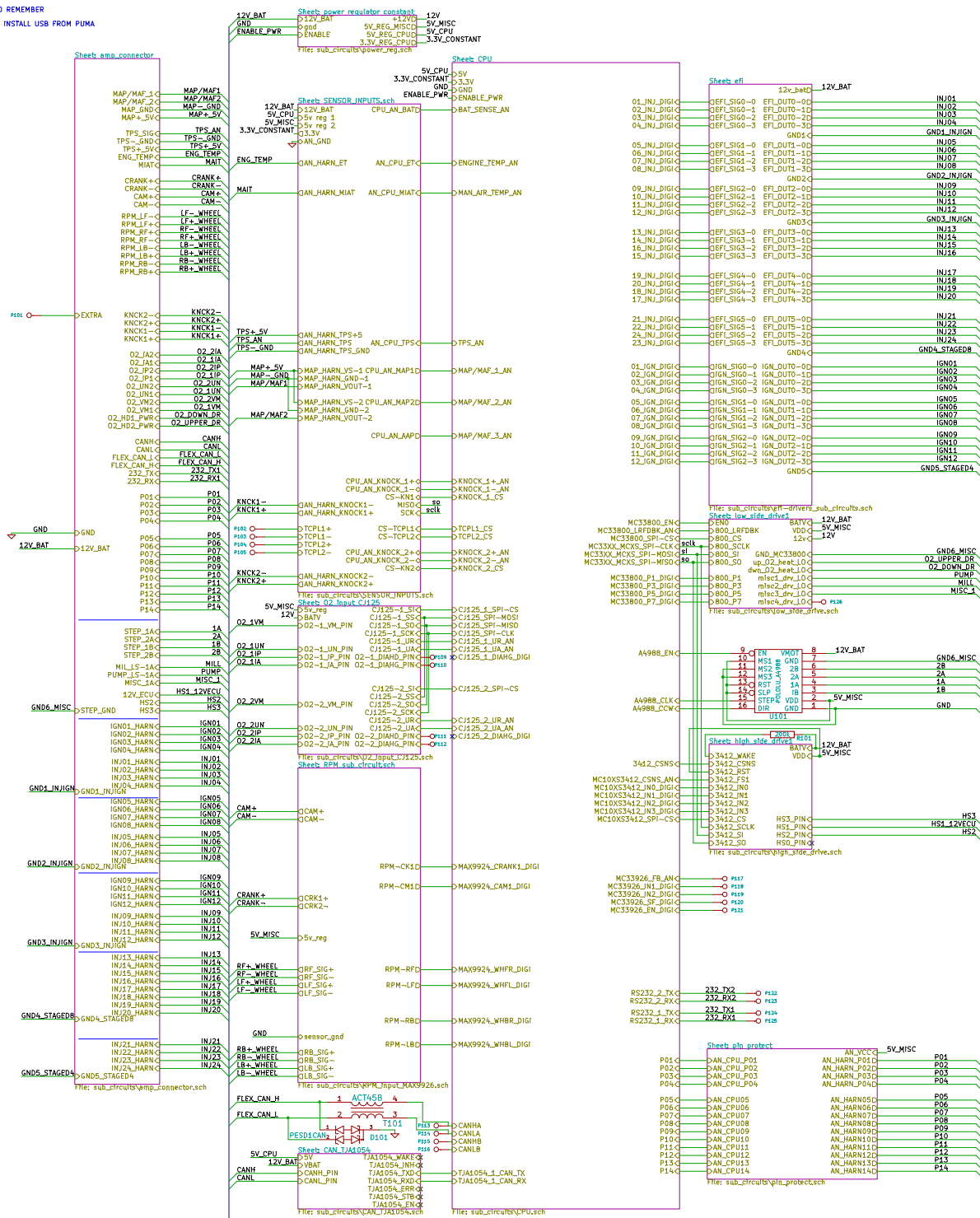
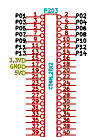
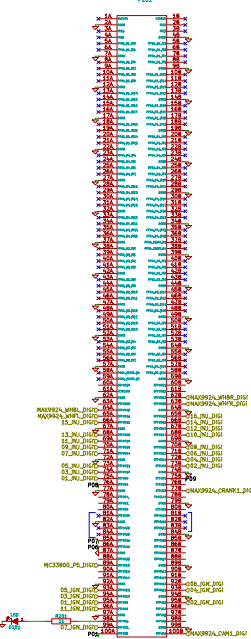


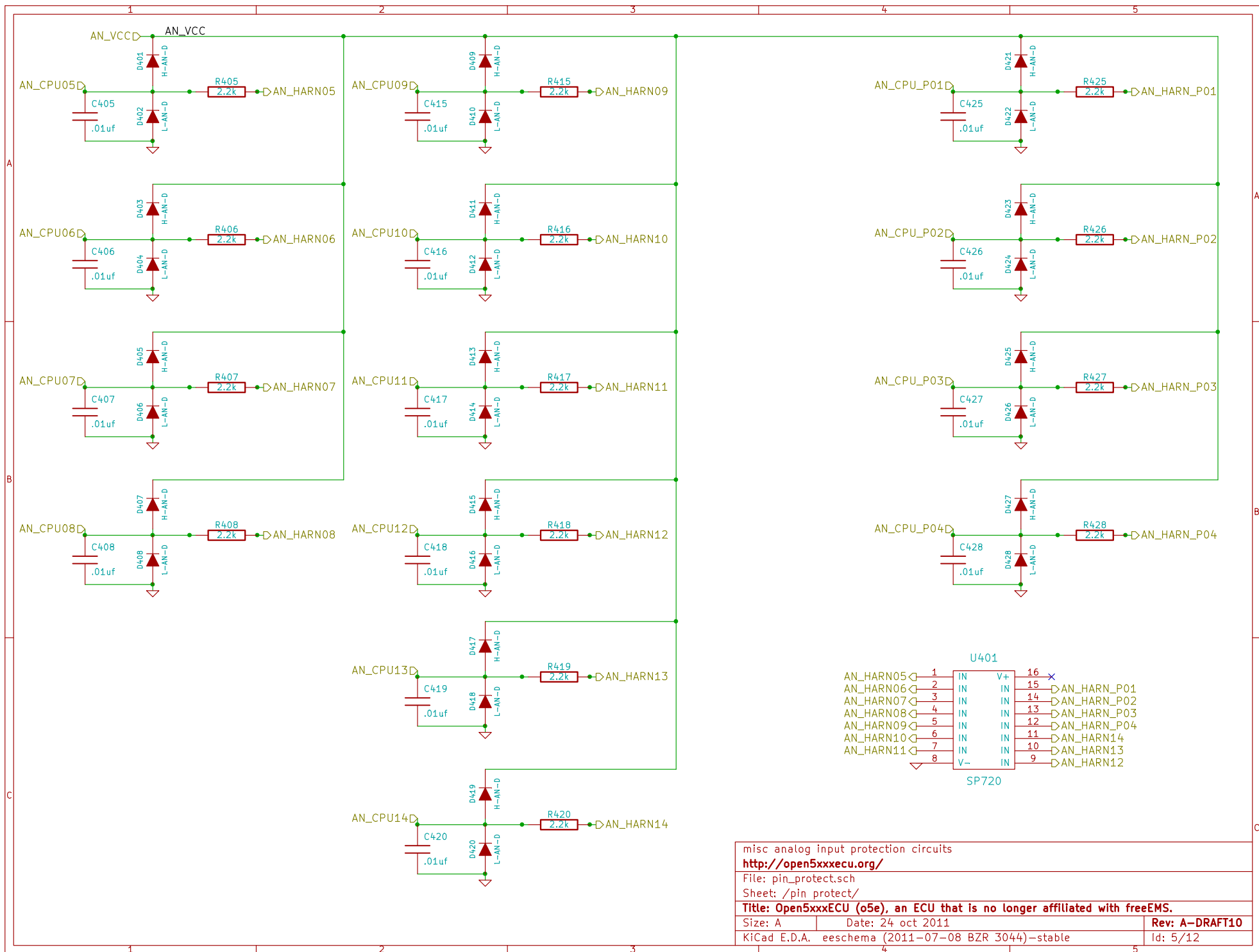
NOTES TO REMEMBER  
PERHAPS INSTALL USB FROM PUMA

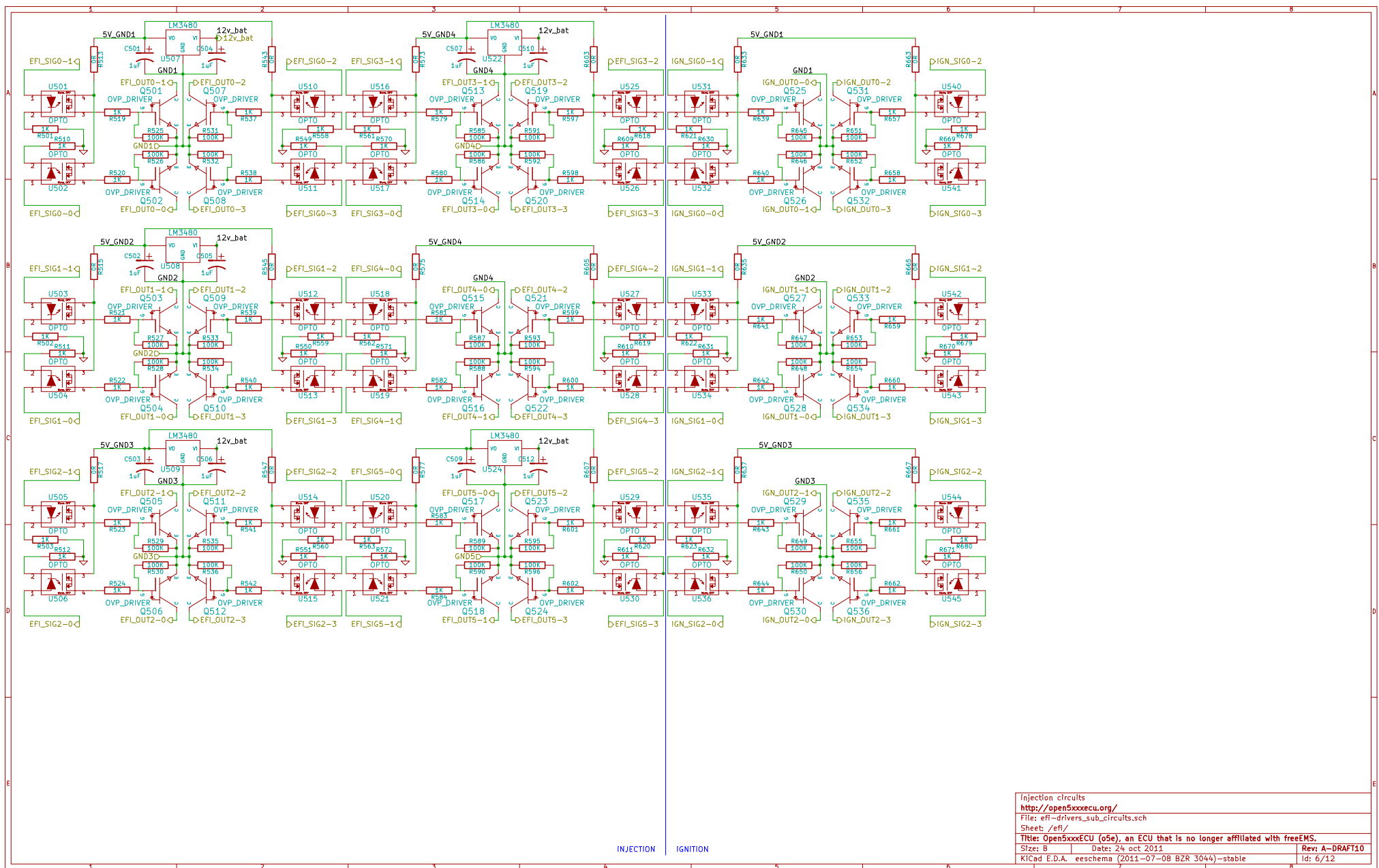


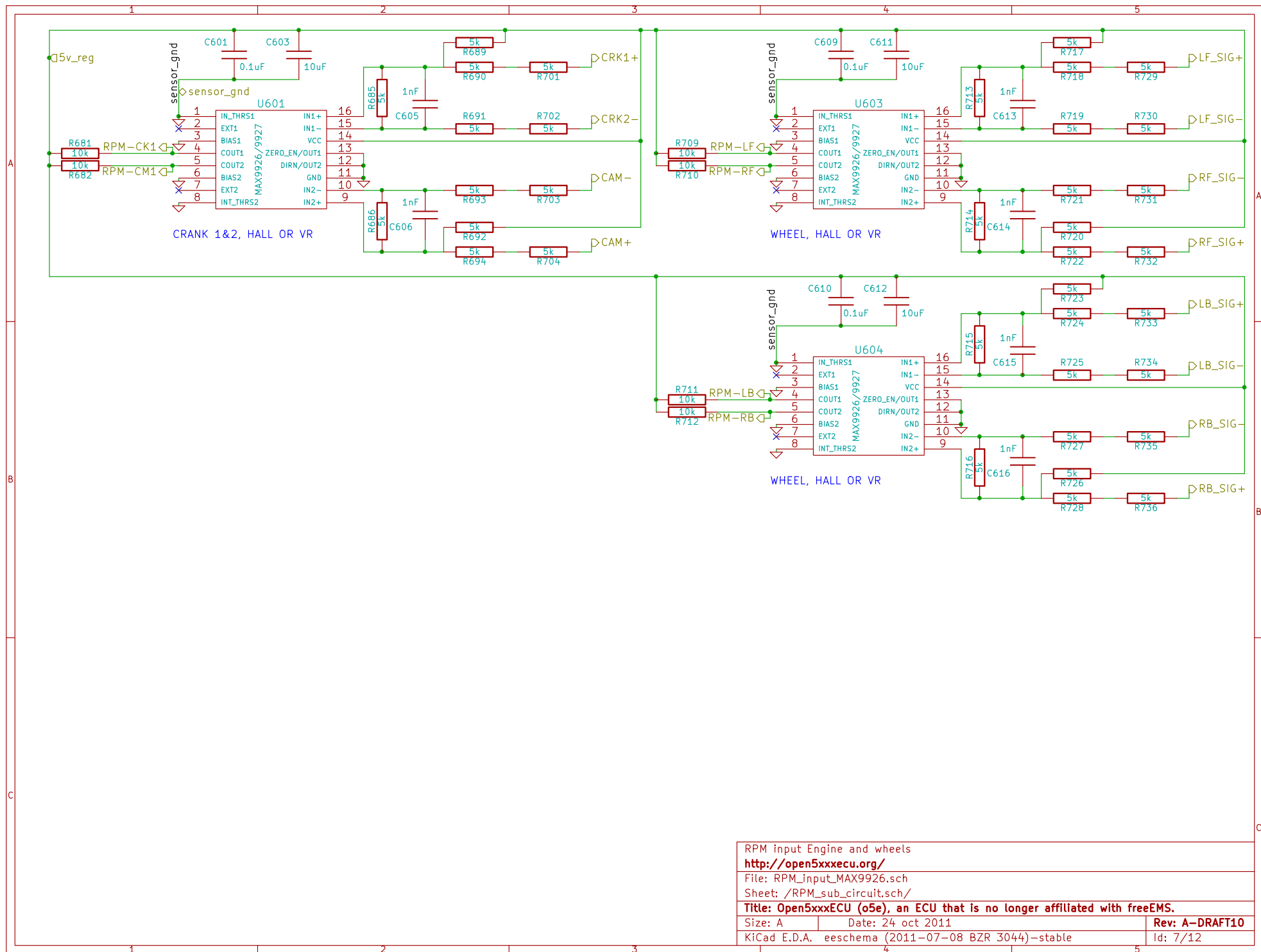




<a href="http://open5xxxecu.org/">http://open5xxxecu.org/</a>		
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<b>Title: Open5xxxECU (o5e), an ECU that is no longer affiliated with freeEMS.</b>		
Size: A	Date: 24 oct 2011	<b>Rev: A-DRAFT10</b>
KiCad E.D.A.	eeschema (2011-07-08 BZR 3044)-stable	Id: 4/12







FILTER/BULK CAPS  
REVERSE POLARITY PROTECTION DIODE  
REVERSE POLARITY SPIKE PROTECTION  
TRANSIENT INDUCTOR AND DIODE SHUNT

REVERSE POLARITY SPIKE PROTECTION  
TRANSIENT INDUCTOR AND DIODE SHUNT

EXPECTS AN UPSTREAM 5A FUSE/CIRCUIT BREAKER  
INCLUDED 12A FUSE IS FOR REVERSE PROTECTION ON OKR DEVICE

12V\_BATD

C705 100nF

D702

TPSMA27A

D703

TPSMA27A

D708

C708 100uF

C709 100nF

L701 4.7uH

C714 100uF

12V\_BUF\_BAT

C715 100nF

7812

U704

C719 22uF

12V\_FUSE

F701

10k

R738

5V1

D706

5V

OKR-T/3-W12-C

U705

Vin

VOUT

/SHDN

GND

TRIM

220R

R741

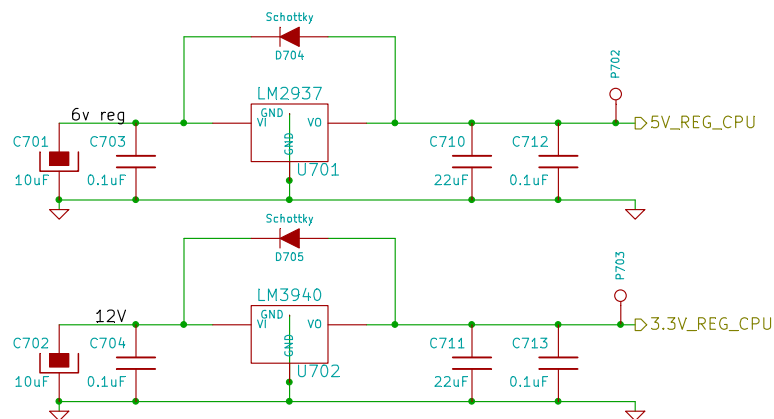
6V

6V reg

The circuit diagram shows a 6V regulator section. It starts with an LED connected to a 3.3k resistor (R737) and a diode D701. The output of this stage goes through a 10uF capacitor (C706) and a 0.1uF capacitor (C707). The main input to the MCP1826 regulator is labeled '6v reg'. The regulator has pins for Vin, VOUT, /SHDN, GND, PWRGD, and U703. A 1N4448 diode (D707) is connected between the input and output. A 100k resistor (R739) is connected between the output and ground. The output is filtered by a 22uF capacitor (C716), followed by a 0.1uF capacitor (C717) and a 2200uF capacitor (C718). The final output is labeled '5V\_REG\_MISC' and 'P704'. Annotations include: '\*C717: aluminum', '\*C718: tantalum, close to the regulator', and 'THIS SECTION SMALL FILTER LARGER BULK LDO REGULATOR POWER LED'.

THIS SECTION CONTAINS

SMALL FILTERING CAPS TO PREVENT OSSILLATION  
LARGER BULK CAPS TO HANDLE THE BULK NEEDS  
LDO REGULATOR TO GENERATE A 1 AMP ACCURATE 5V SOURCE GOOD FOR MISC NEEDS  
POWER LED TO INDICATE IT'S POWRED  
ENABLE FEATURE TO ALLOW MCU TO TURN THINGS OFF.  
REVERSE POLARITY DIODE PROTECTING THE MCP1826



SMALL FILTERING CAPS TO PREVENT OSSILATION  
LARGER BULK CAPS TO HANDLE THE BULK NEEDS  
LDO REGULATOR TO GENERATE A 1 AMP 5V PERCISSION LOW RIPPLE SOURCE

SMALL FILTERING CAPS TO PREVENT OSSILATION  
LARGER BULK CAPS TO HANDLE THE BULK NEEDS  
LDO REGULATOR TO GENERATE A 1 AMP 3.3V PERCISSION LOW RIPPLE SOURCE

<http://open5xxecu.org/>

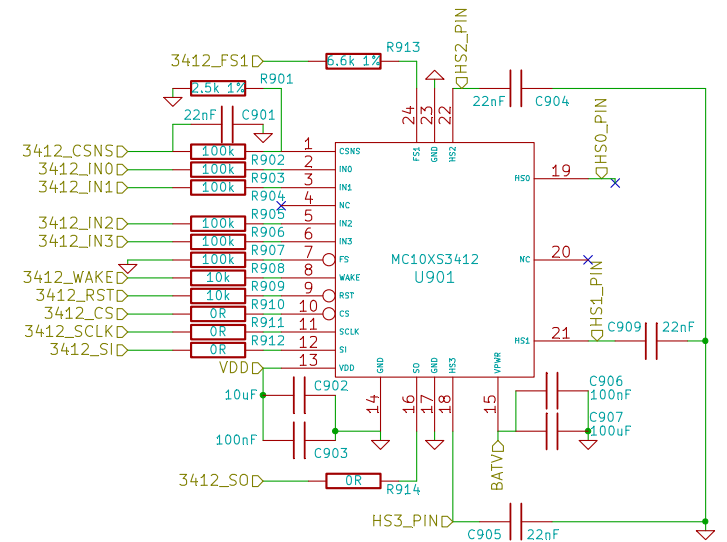
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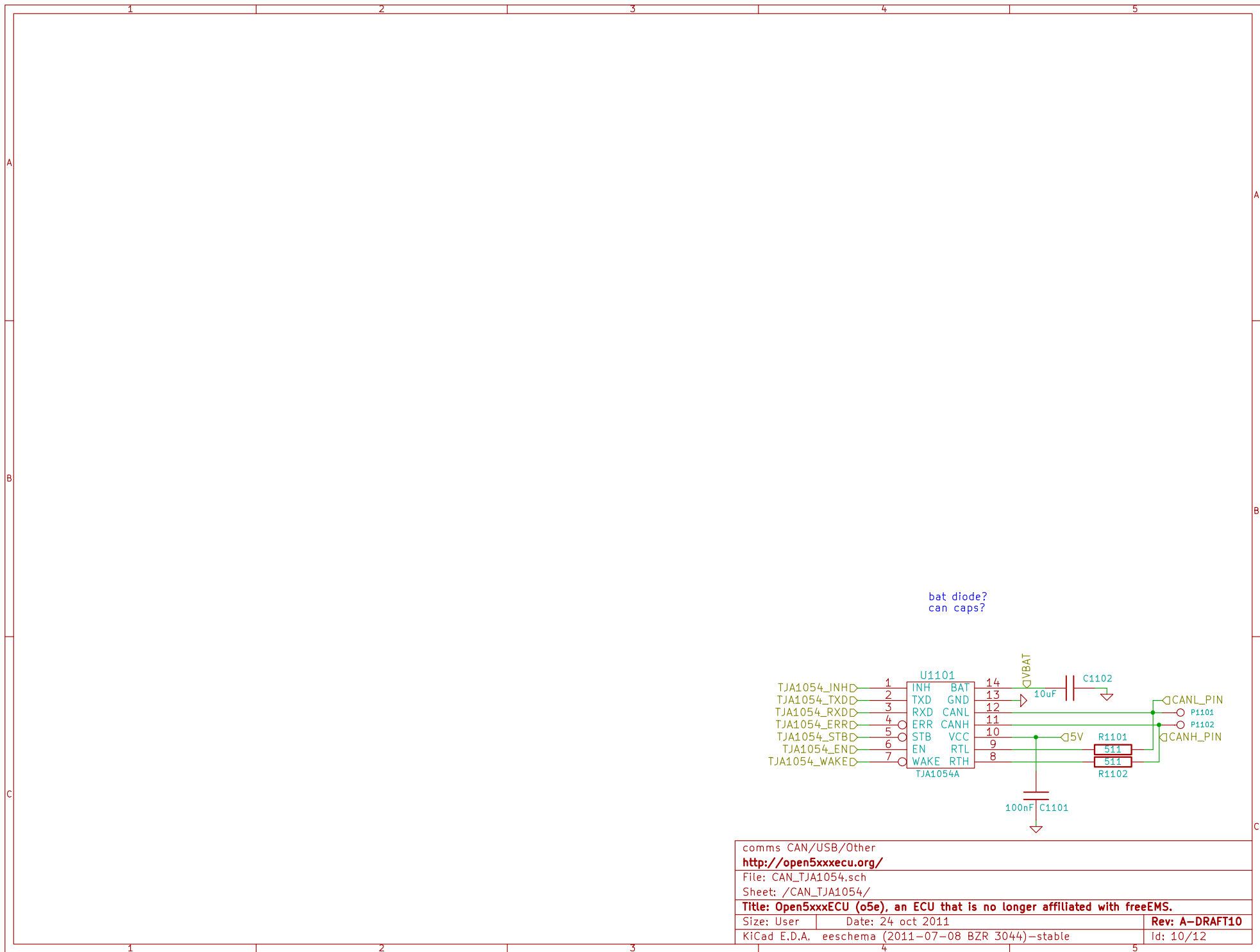
Rev: A-DRAFT10

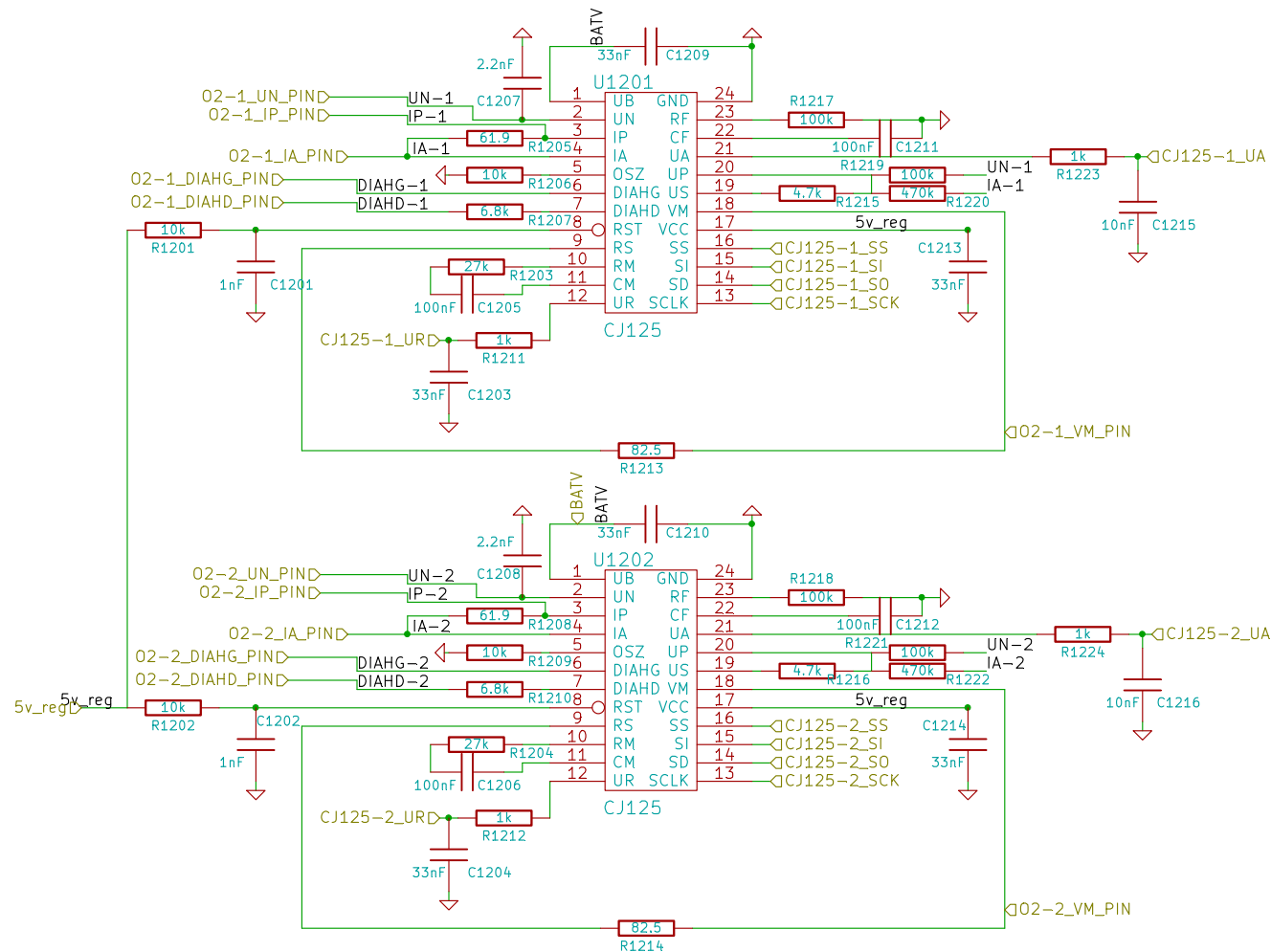
Id: 8/12



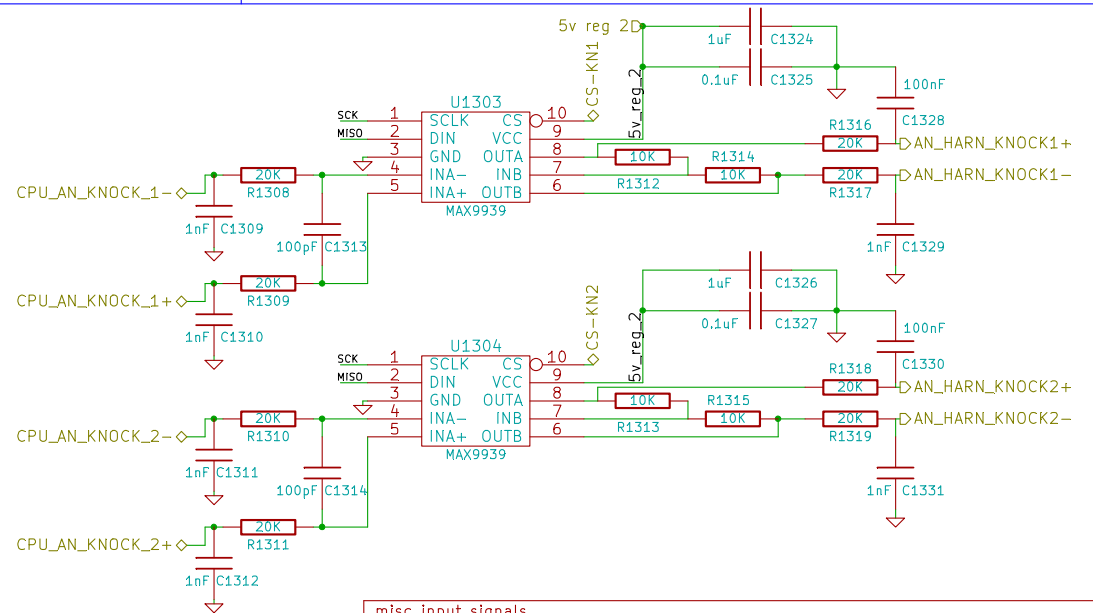
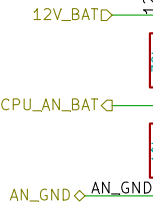


High side drive circuits		
<a href="http://open5xxxecu.org/">http://open5xxxecu.org/</a>		
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<b>Title: Open5xxxECU (o5e), an ECU that is no longer affiliated with freeEMS.</b>		
Size: A4	Date: 24 oct 2011	Rev: A-DRAFT10
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2 channels of Wide O2		
<a href="http://open5xxxecu.org/">http://open5xxxecu.org/</a>		
File: O2_input_CJ125.sch		
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Size: User	Date: 24 oct 2011	Rev: A-DRAFT10
KiCad E.D.A. eeschema (2011-07-08 BZR 3044)-stable		Id: 11/12



Id: 12/12