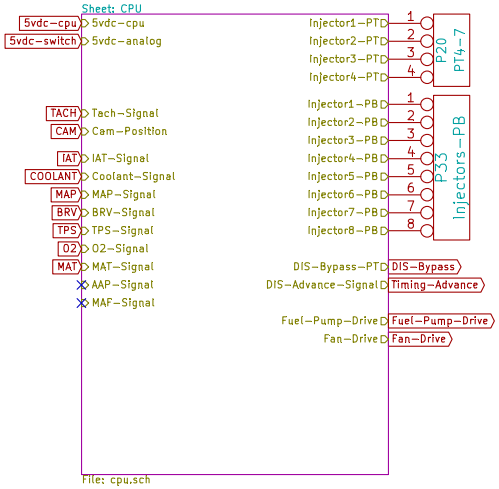
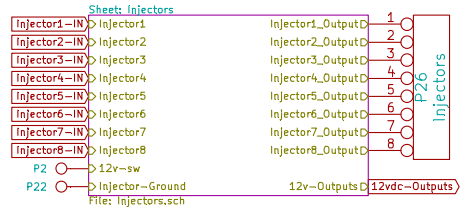
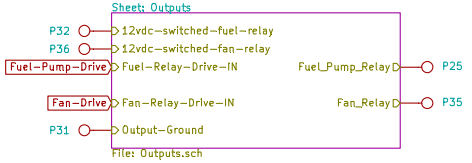
Notes:

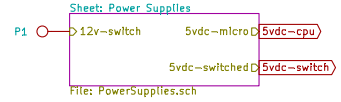
All Jumpers labeled JP# are crossover wires, nothing more.
This was done to ease single sided PCB Prototype testing.

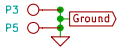
J2 is the TE Connectivity Automotive Grade water resistant connector.
The 34 position will allow for modifications to the board for additional inputs as this design only uses 27 positions. I am still awaiting samples to test, however I have ordered samples of AMP Seal water resistant 35 position connectors to test as well.











For 6/8 cylinder Semi Sequential Injection, run jumper wires from:
P20 pin 1 to P21 pin 1 = Bank 1
P20 pin 2 to P21 pin 2 = Bank 2
P20 pin 3 to P21 pin 3 = Bank 3
P20 pin 4 to P21 pin 4 = Bank 4

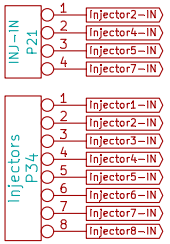
AND DO THE FOLLOWING

For 6/8 cylinder Semi Sequential Injection configuration (can be tie-bar shorting jumper if you installed a 0.100" pin header for P34)
Jumper from:

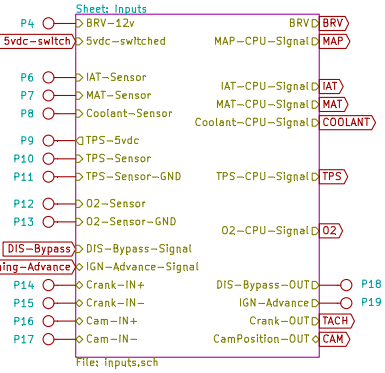
P34 pin 1 to P34 pin 2
P34 pin 3 to P34 pin 4
P34 pin 5 to P34 pin 6
P34 pin 7 to P34 pin 8

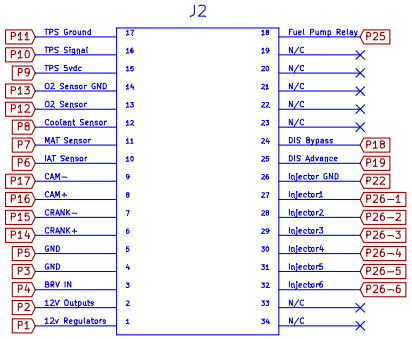
For Full Sequential Injection run jumper wires from:
P33 to P34 pin for pin and do not connect anything to P21.
Ie:
P33 pin 1 to P34 pin 1
P33 pin 2 to P34 pin 2
P33 pin 3 to P34 pin 3
P33 pin 4 to P34 pin 4
P33 pin 5 to P34 pin 5
P33 pin 6 to P34 pin 6
P33 pin 7 to P34 pin 7
P33 pin 8 to P34 pin 8

P21 Pin 1 has a trace to P34 Pin 2 on the PCB
P21 Pin 2 has a trace to P34 Pin 4 on the PCB
P21 Pin 3 has a trace to P34 Pin 5 on the PCB
P21 Pin 4 has a trace to P34 Pin 7 on the PCB



P21 and P34 allow for selection for Semi-Sequential or Sequential Injection





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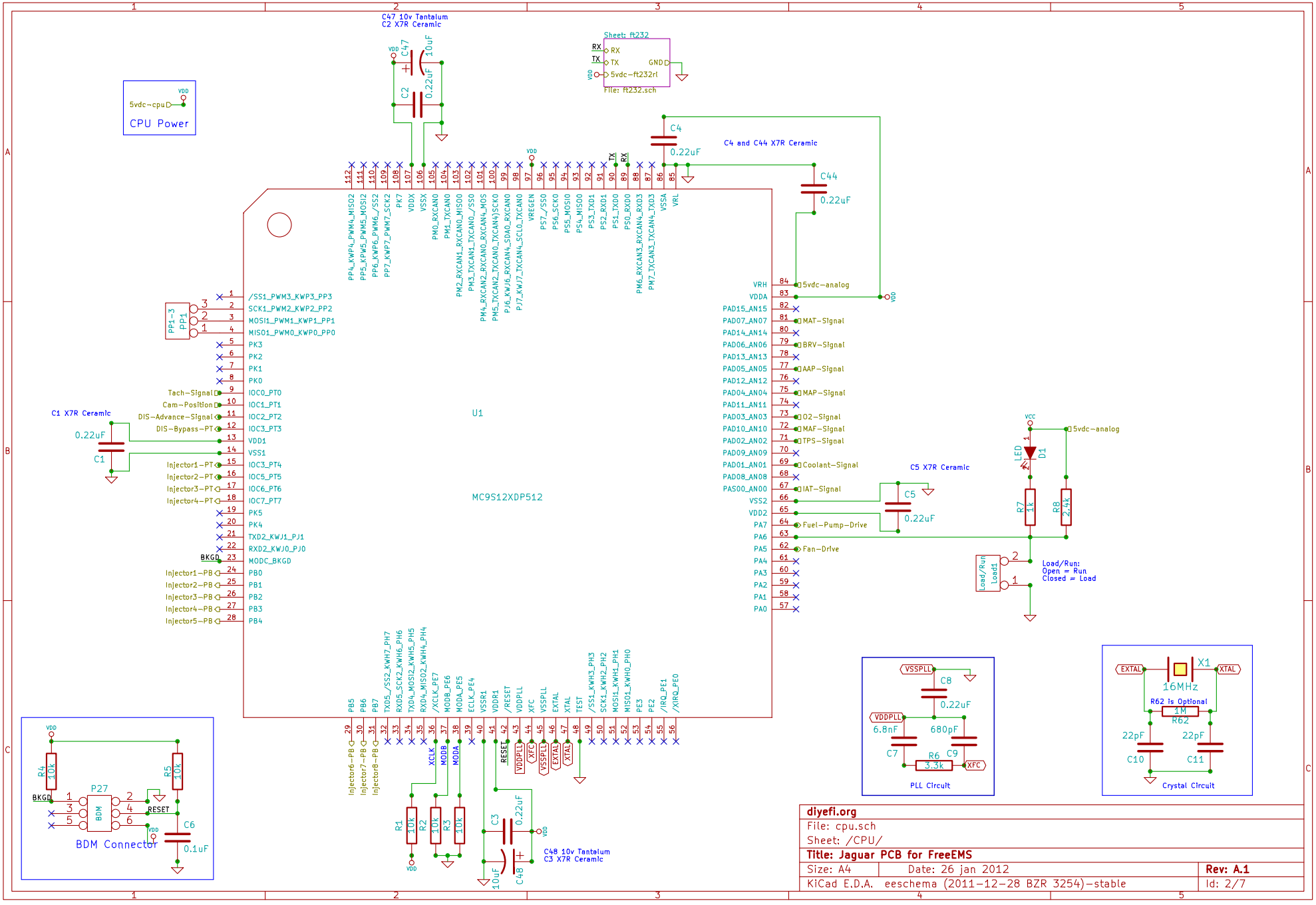
Size: A4	Date: 26 jan 2012	**Rev: A.1**
KiCad E.D.A. eeschema (2011-12-28 BZR 3254)-stable		Id: 1/7


C47 10v Tantalum
C2 X7R Ceramic
Sheet: ft232
File: ft232.sch
CPU Power
C4 and C44 X7R Ceramic
C1 X7R Ceramic
C5 X7R Ceramic
U1
MC9S12XDP512
BDM Connector
PLL Circuit
Crystal Circuit
C48 10v Tantalum
C3 X7R Ceramic
Load/Run:
Open = Run
Closed = Load
R62 Is Optional
diyefi.org
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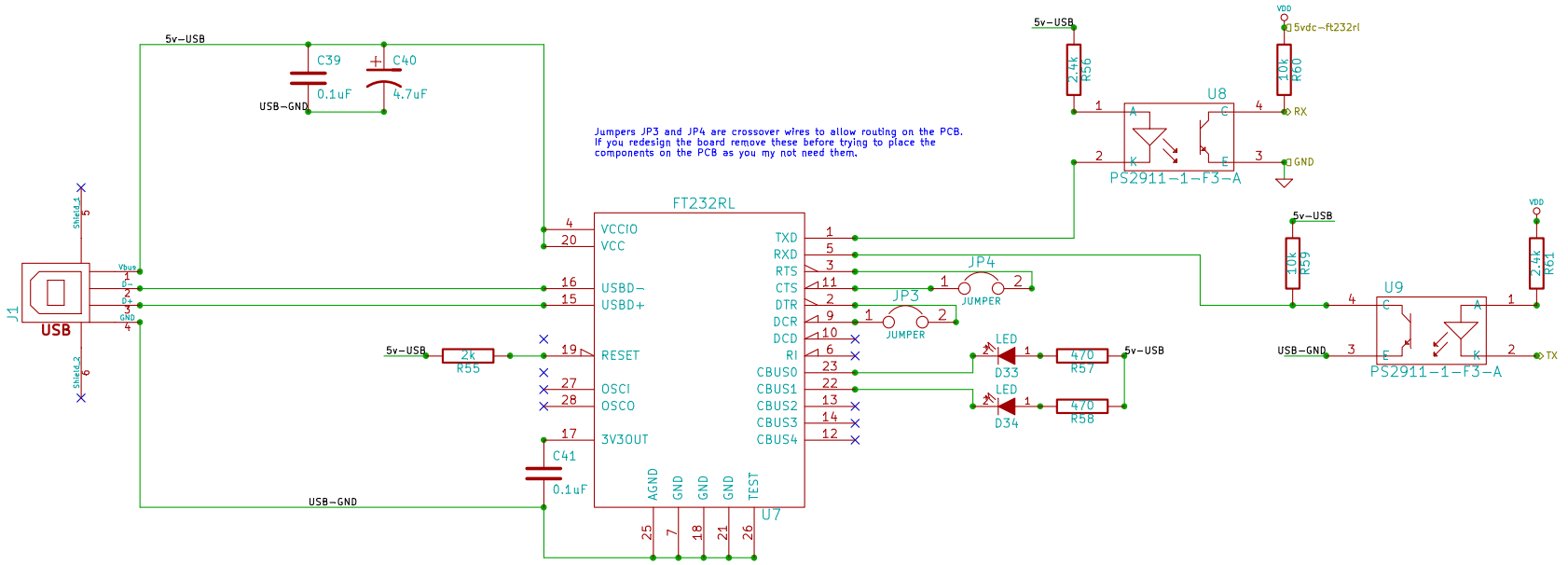
Title: Jaguar PCB for FreeEMS
Size: A4
Date: 26 jan 2012
Rev: A.1
KiCad E.D.A. eeschema (2011-12-28 BZR 3254)-stable
Id: 2/7



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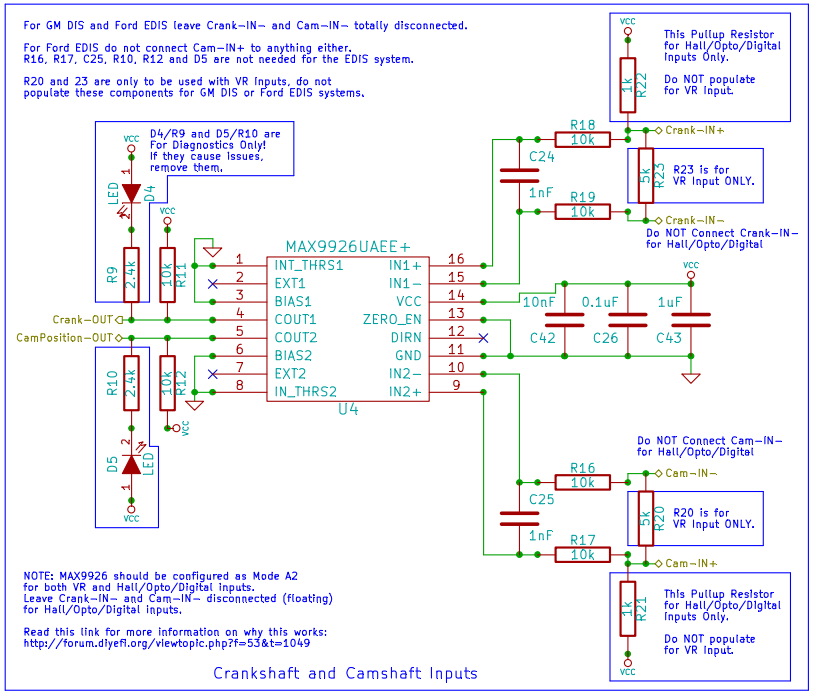
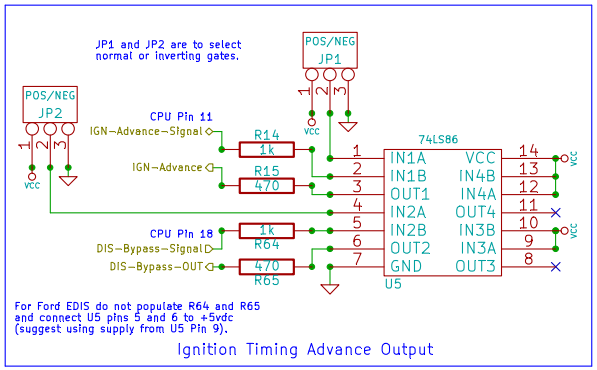
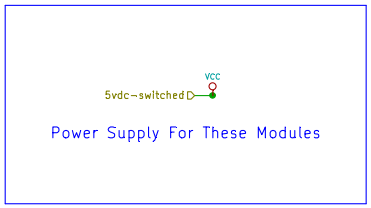
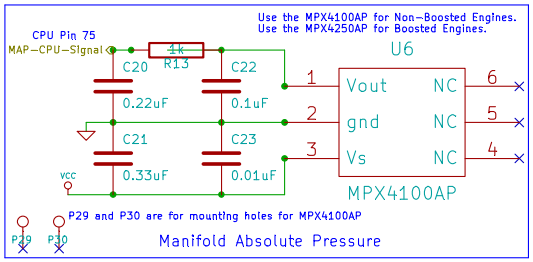
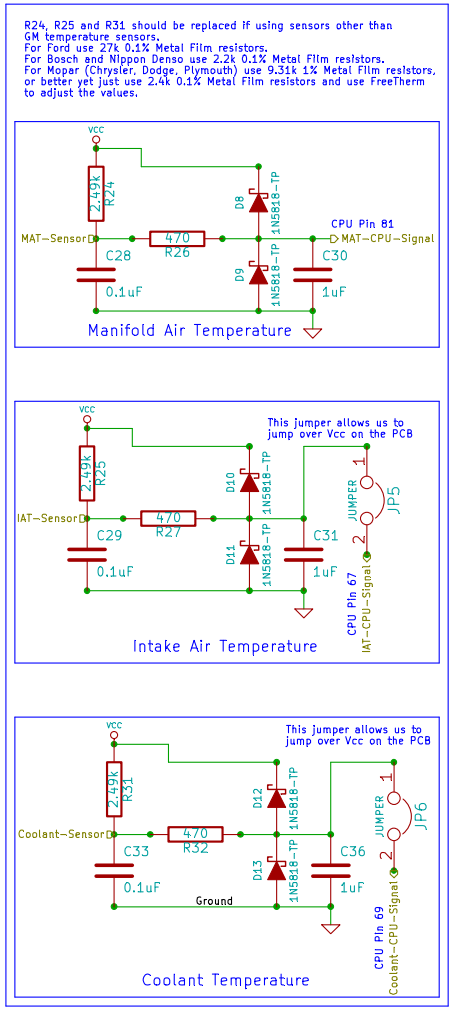
Size: A4	Date: 26 jan 2012	**Rev: A.1**
KiCad E.D.A. eeschema (2011-12-28 BZR 3254)-stable		Id: 3/7

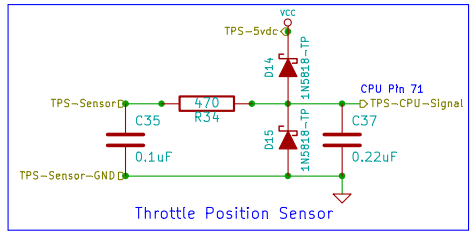


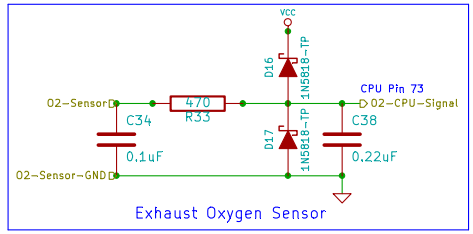


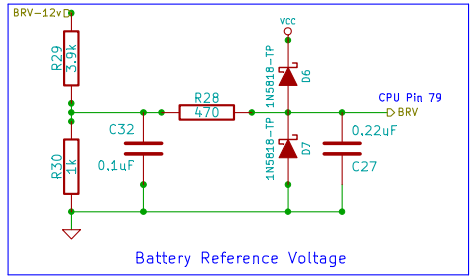












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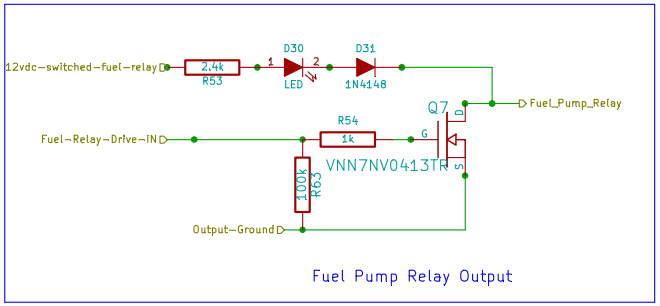
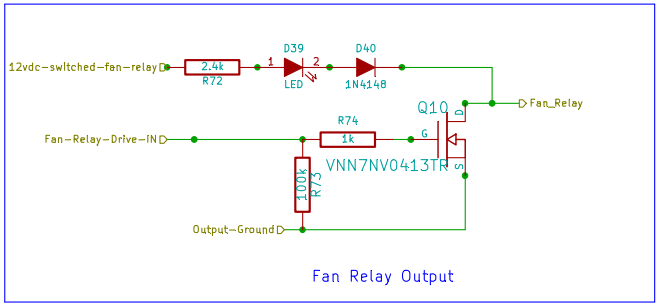
Size: A4	Date: 26 jan 2012	**Rev: A.1**
KiCad E.D.A.	eeschema (2011-12-28 BZR 3254)-stable	Id: 4/7





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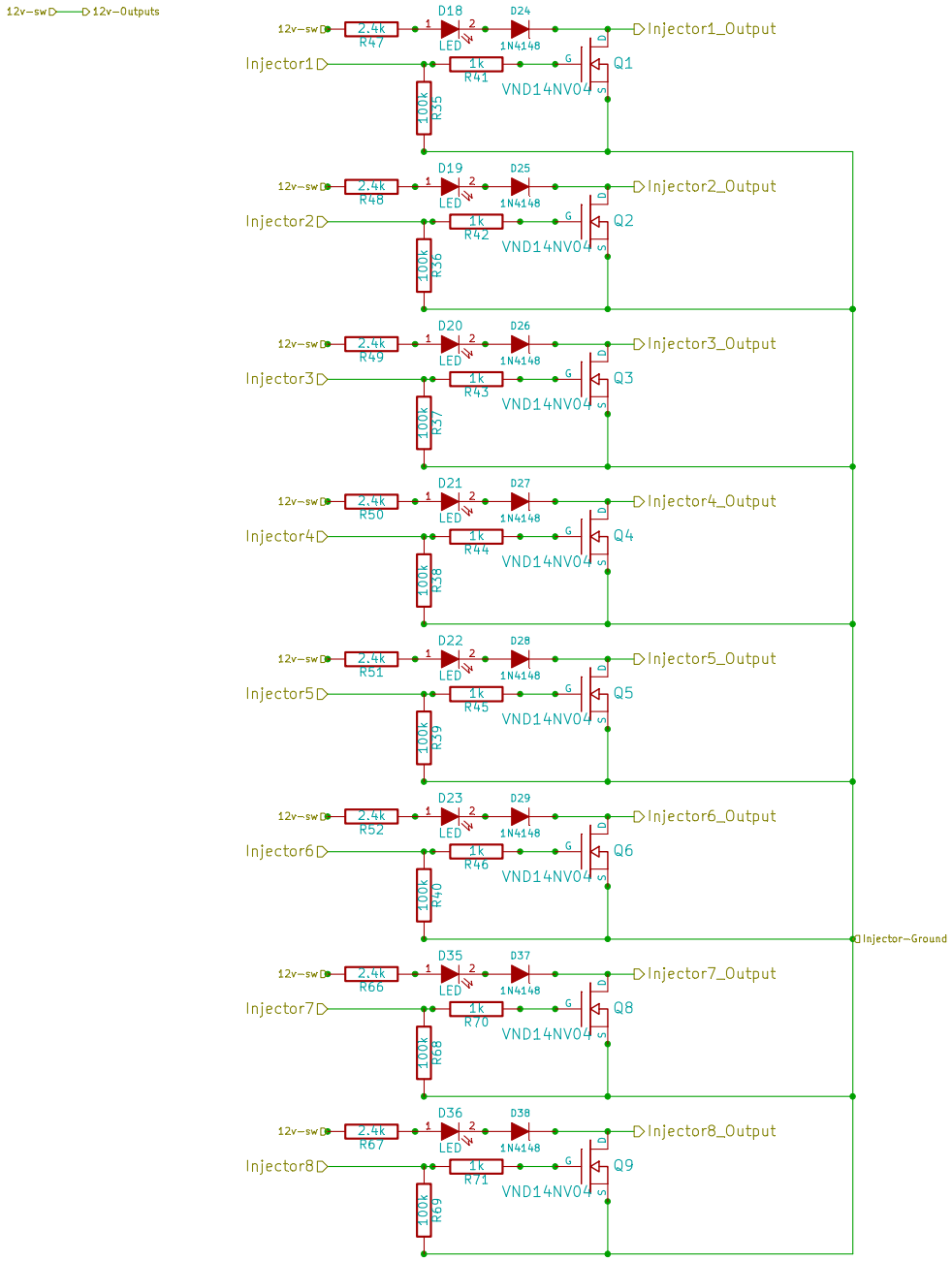
KiCad E.D.A. eeschema (2011-12-28 BZR 3254)-stable		Id: 5/7



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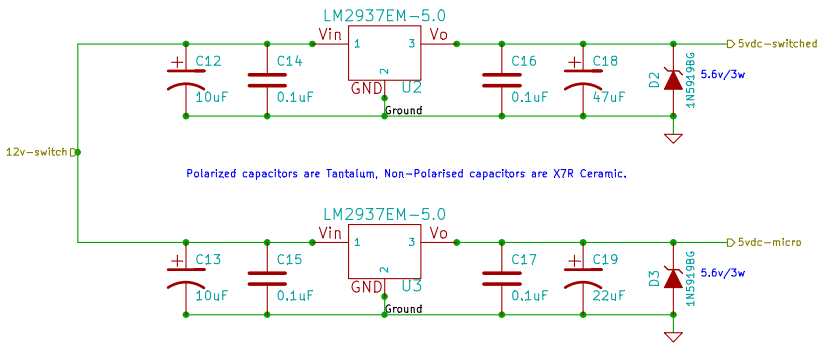
Size: A4	Date: 26 jan 2012	**Rev: A.1**
KiCad E.D.A. eeschema (2011-12-28 BZR 3254)-stable		Id: 6/7



C14, C15, C16 and C17 are 50v X7R Ceramic capacitors.

C12 and C13 are 35v Tantalum capacitors.
C18 and C19 are 16v Tantalum capacitors.

diyefi.org		
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Title: Jaguar PCB for FreeEMS		
Size: A4	Date: 26 jan 2012	**Rev: A.1**
KiCad E.D.A. eeschema (2011-12-28 BZR 3254)-stable		Id: 7/7