

Notes:

Make sure that the PCB grounds do not touch the inside of the case and isolate the TO-220 voltage regulators from the end panels of the case with silicon insulators and use plastic isolators on the metal screws.

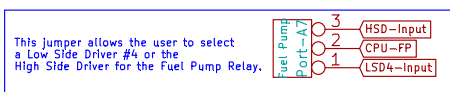
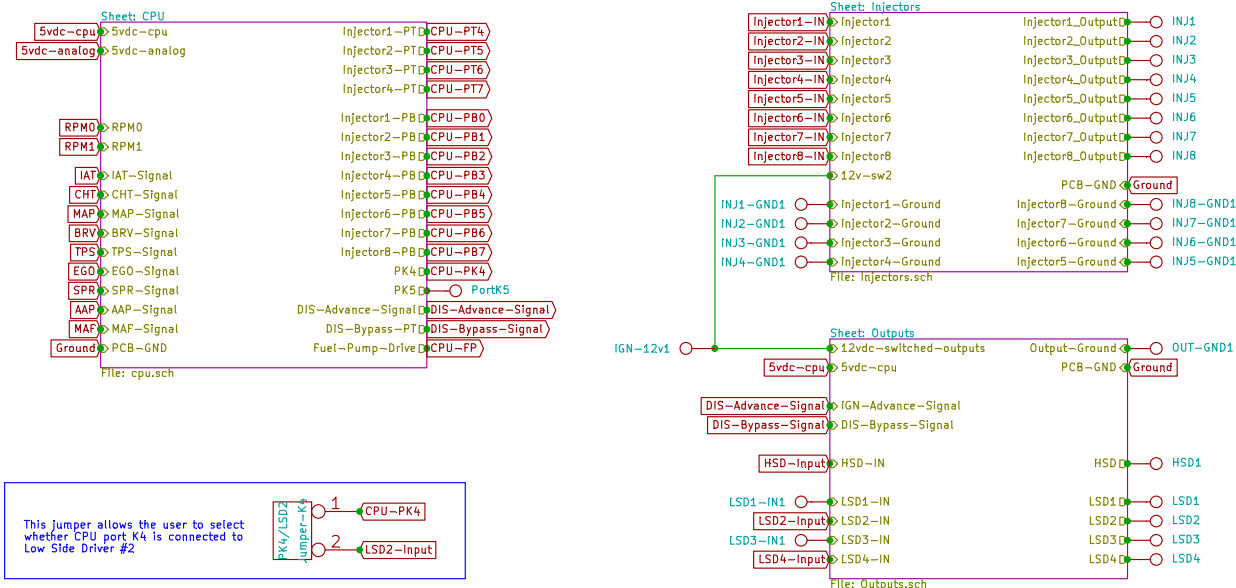
5vdc-cpu = VDD

5vdc-analog = VCC

Components that are missing from design changes:

C45, C46, C50, D3, D32, R14, R15, R56, R59, R60, R61, R62, R64, R65, R79, R85, R86, R93, R94, R96, R97, R98, R99, U5, U10

This PCB is intended to be used with either the specified Context Engineering enclosure or retro-fitted into a factory ECU enclosure.



For 6/8 cylinder using Port T with current code, run Jumper wires from:
PT4-7 pin 1 to PB0-7 pin 1 = Bank 1
PT4-7 pin 2 to PB0-7 pin 3 = Bank 2
PT4-7 pin 3 to PB0-7 pin 5 = Bank 3
PT4-7 pin 4 to PB0-7 pin 7 = Bank 4

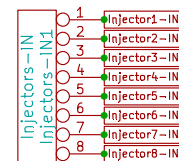
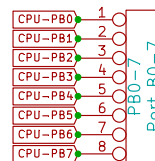
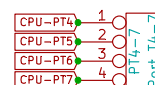
AND DO THE FOLLOWING

For 6/8 cylinder using Port T with current code jumper from:
(can be tie-bar shorting jumper if you installed a 0.100" pin header for Injectors-IN)

Injectors-IN pin 1 to pin 2
Injectors-IN pin 3 to pin 4
Injectors-IN pin 5 to pin 6
Injectors-IN pin 7 to pin 8

To use Port B with future XGATE code, run jumper wires from:
P33 to P34 pin for pin and do not connect anything to P20.

ie:
PB0-7 pin 1 to Injectors-IN pin 1
PB0-7 pin 2 to Injectors-IN pin 2
PB0-7 pin 3 to Injectors-IN pin 3
PB0-7 pin 4 to Injectors-IN pin 4
PB0-7 pin 5 to Injectors-IN pin 5
PB0-7 pin 6 to Injectors-IN pin 6
PB0-7 pin 7 to Injectors-IN pin 7
PB0-7 pin 8 to Injectors-IN pin 8



PT4-7 and PB0-7 allow for selection to use either Port T (4 cpu outputs:MAXIMUM:current code) or Port B (8 cpu outputs:future XGATE code)



Git: c4952a2cf0

File: Jaguar.sch

Sheet: /

Title: Jaguar PCB for FreeEMS

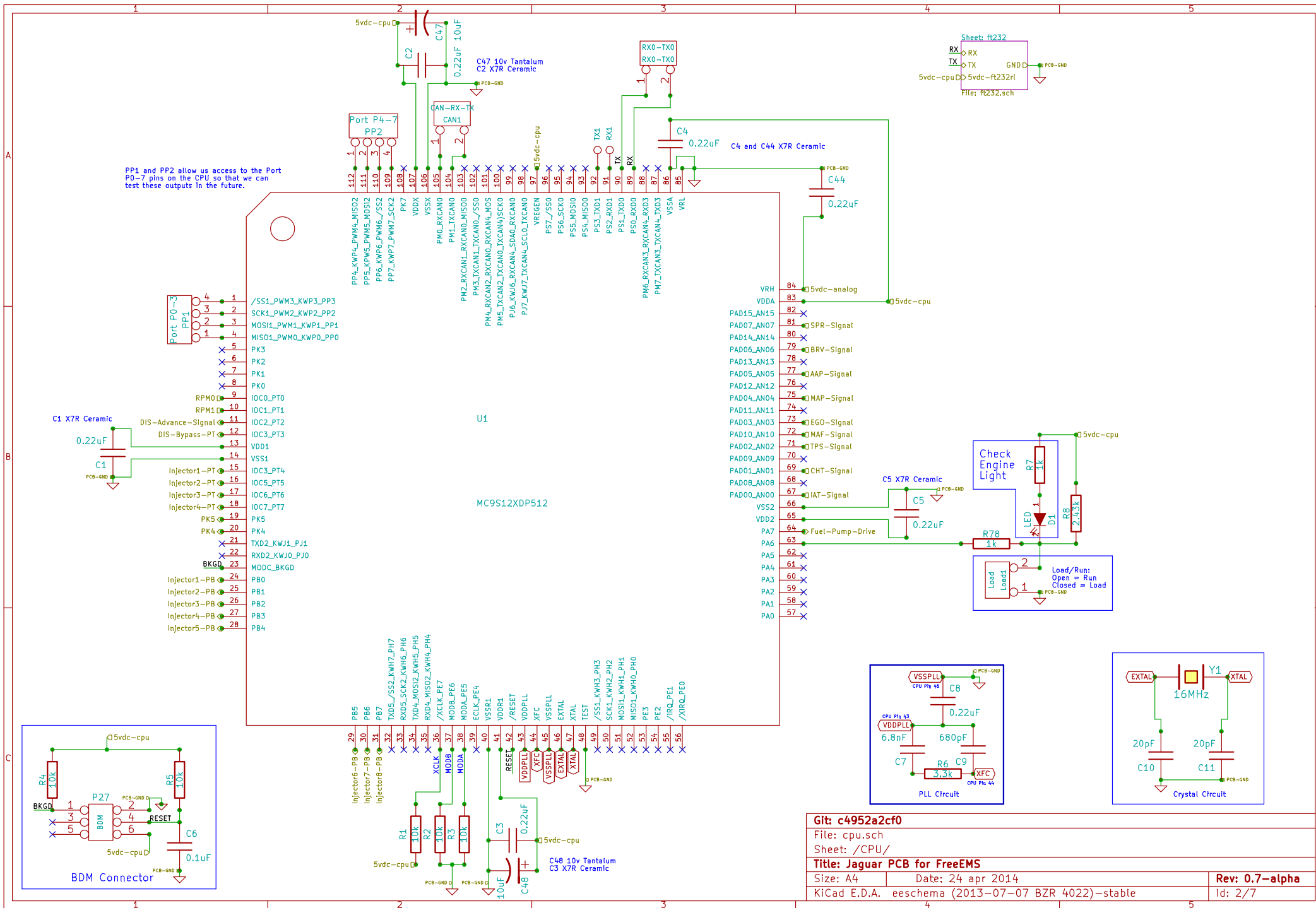
Size: A4

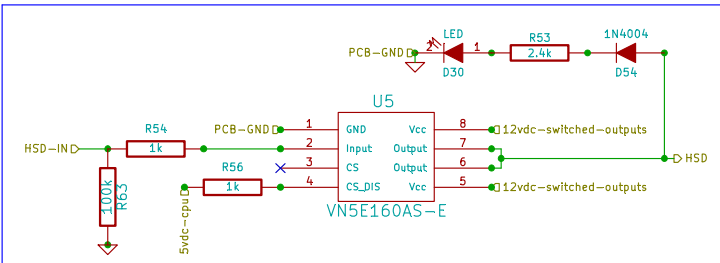
Date: 24 apr 2014

Rev: 0.7-alpha

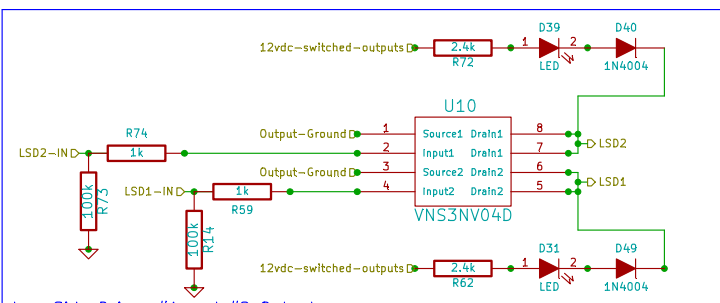
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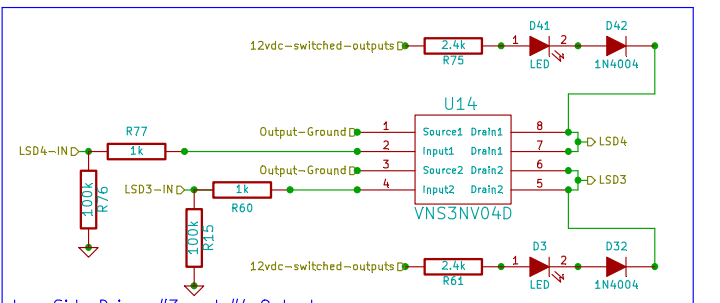




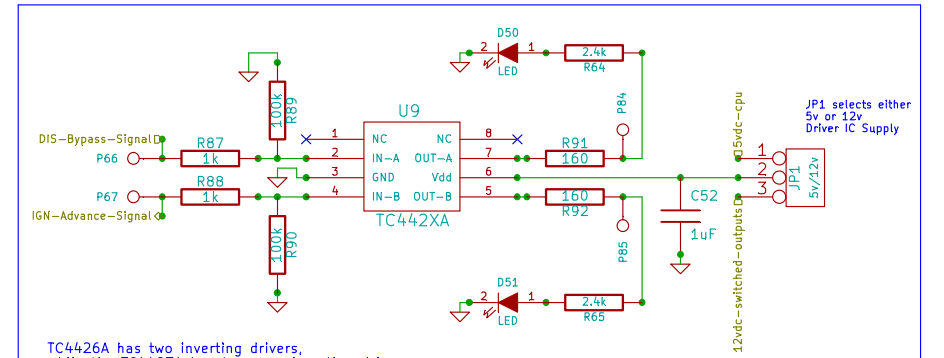
High Side Driver Relay Output



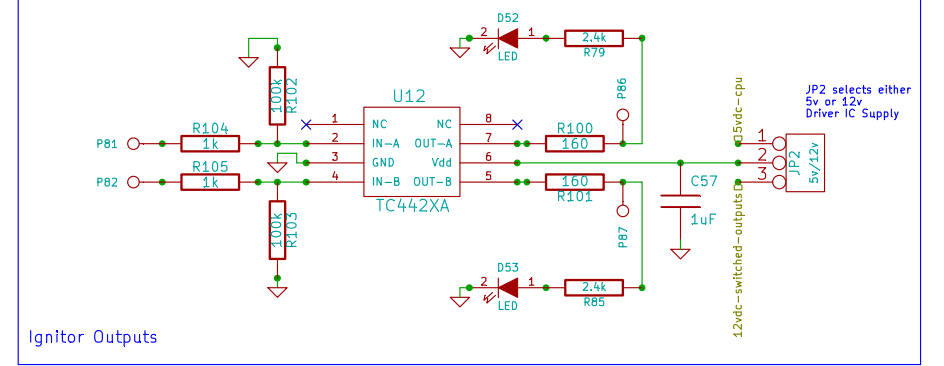
Low Side Driver #1 and #2 Outputs



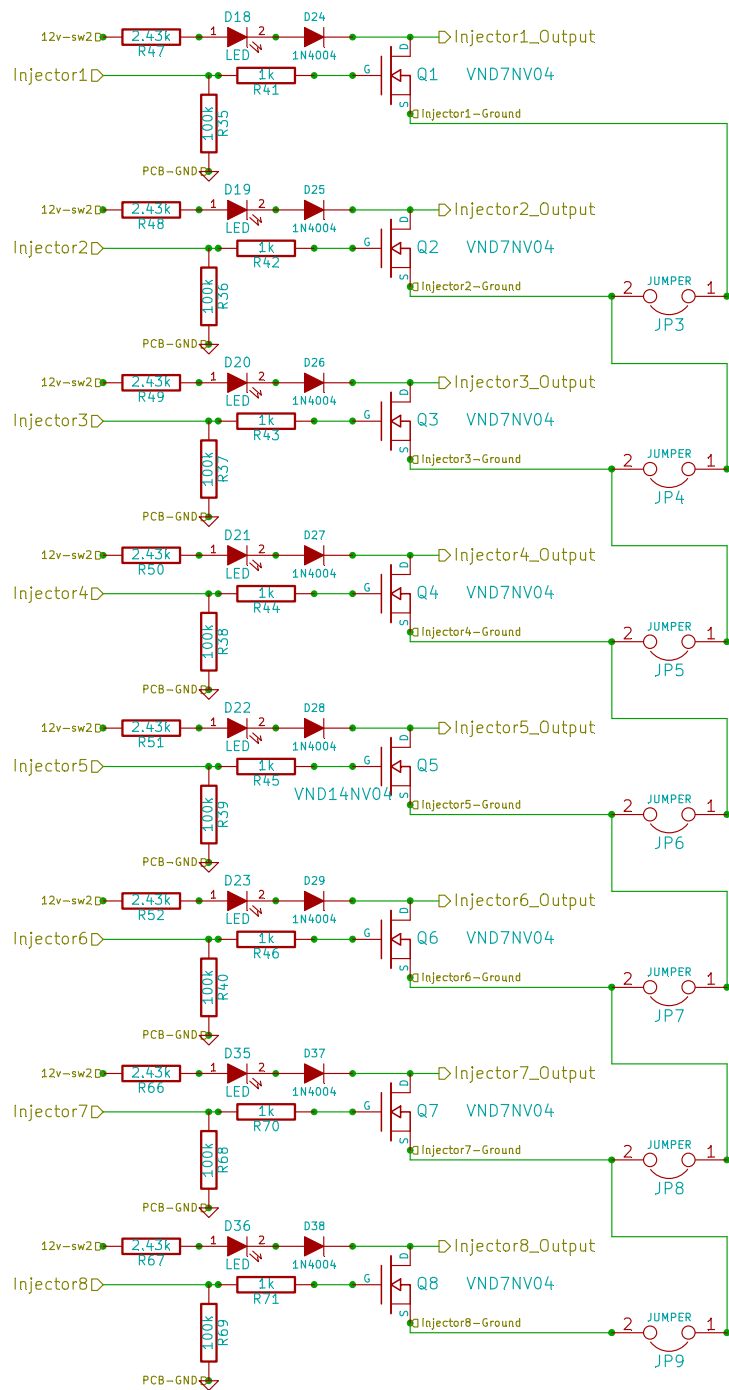
Low Side Driver #3 and #4 Outputs



TC4426A has two inverting drivers, while the TC4427A has two non-inverting drivers. The TC4428A has one inverting and one non-inverting driver.



Ignitor Outputs



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File: Injectors.sch

Sheet: /Injectors/

Title: Jaguar PCB for FreeEMS

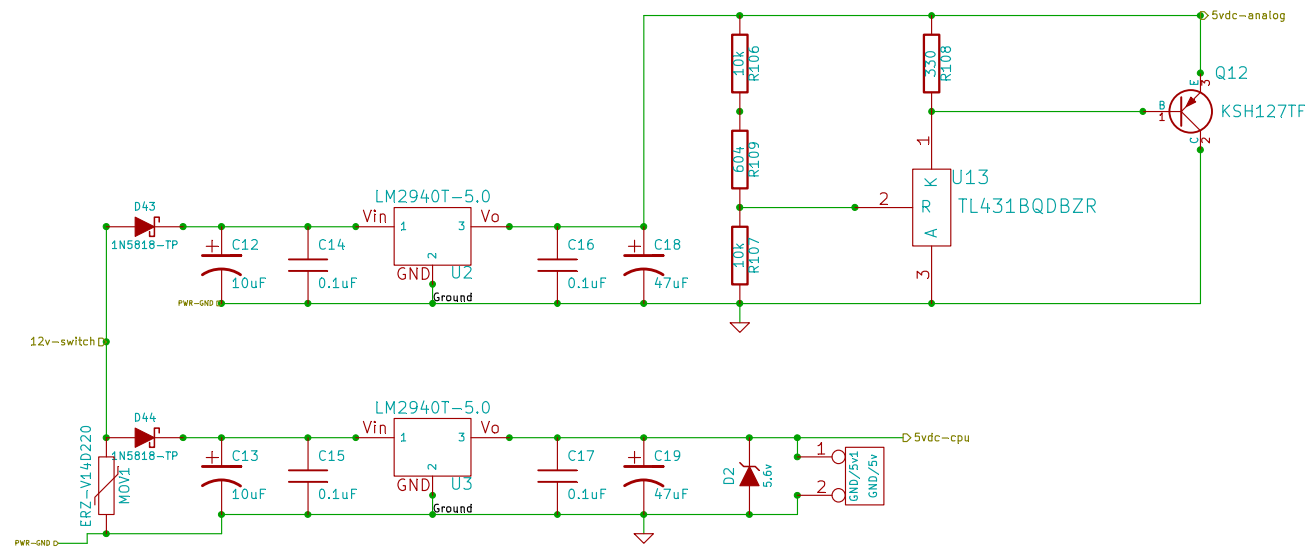
Size: A4

Date: 24 apr 2014

Rev: 0.7-alpha

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C14, C15, C16 and C17 are 50v X7R Ceramic capacitors.
 C12 and C13 are 35v Tantalum capacitors.
 C18 and C19 are 10v Tantalum capacitors.

Git: c4952a2cf0		
File: PowerSupplies.sch		
Sheet: /Power Supplies/		
Title: Jaguar PCB for FreeEMS		
Size: A4	Date: 24 apr 2014	Rev: 0.7-alpha
KiCad E.D.A. eeschema (2013-07-07 BZR 4022)-stable		Id: 7/7