

HyZor Serial # \_\_\_\_\_

Date \_\_\_\_\_ Installer Name \_\_\_\_\_

To diagnose your board we need voltages on all the indicated pins:

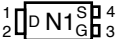
1. with the key on and engine not running and
2. the key on and the engine running.

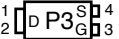
Component	Key on, engine not running				Key on, engine running			
	pin 1	pin 2	pin 3	pin 4	pin 1	pin 2	pin 3	pin 4
N1	NA				NA			
P1				NA				NA
P2	NA				NA			
P3	NA				NA			
P4	NA				NA			
U1				NA				NA

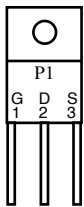
For HyZor Version A and B; please measure N1, P1, P2, P3, P4 and U1  
Obviously, if you don't have a particular component mounted, no need to fill in those blanks.

Measure from the pin to vehicle ground. (Voltage between pins means nothing for this evaluation).  
Put the black lead of your voltmeter to vehicle ground.

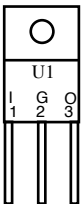
NA = Not Applicable for that component.

 N mosfets are board mounted n-channel IRFD014

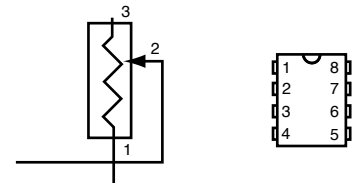
 P mosfets (except P1) are board mounted p-channel IRFD9014



P1 is a p-channel mosfet IRF9Z34 in TO-220 case.

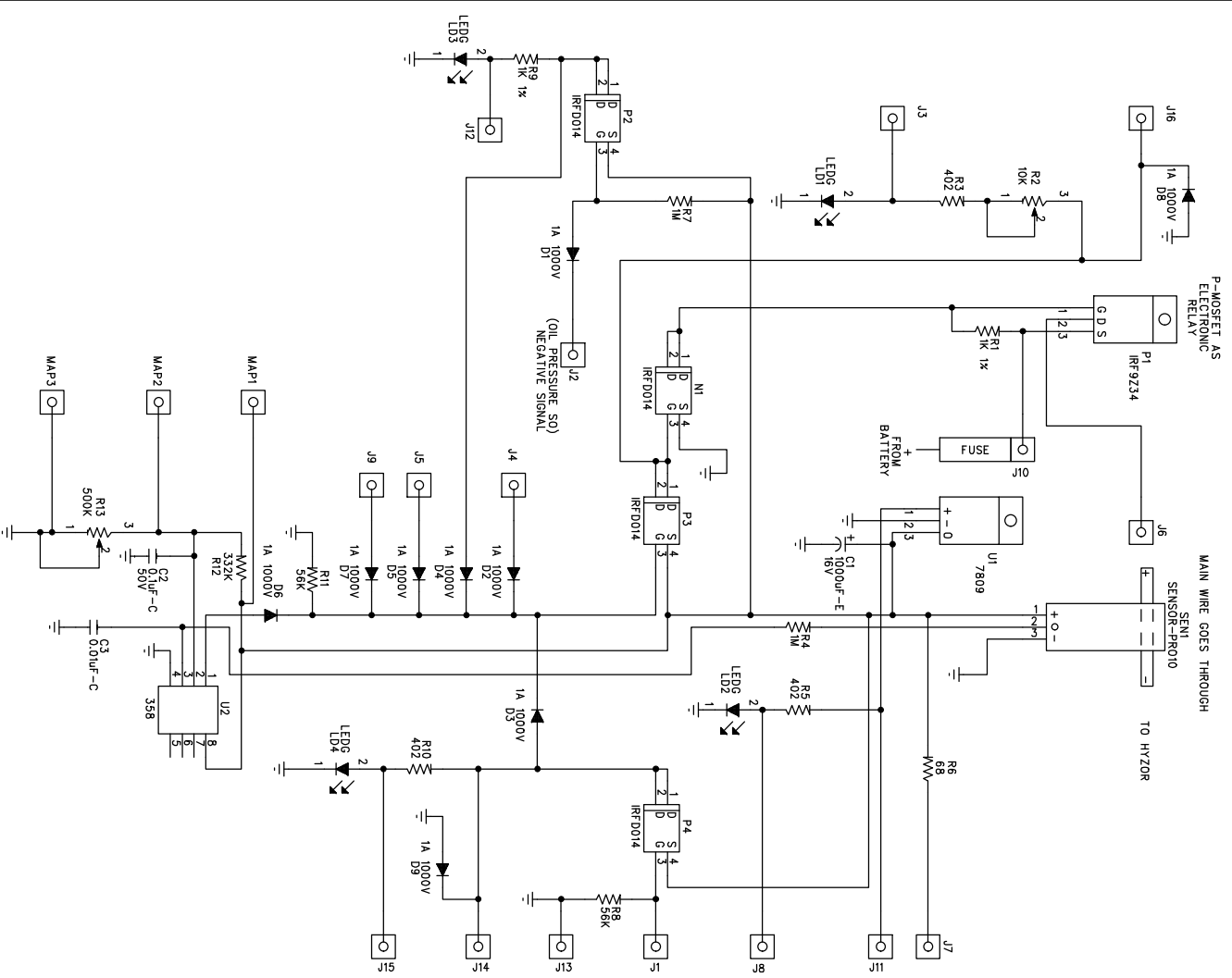


U1 is a 7809 (9 volt) regulator in TO-220 case.



Common Issues Are:

- 1) Not making sure the board is grounded properly (J13)
- 2) Putting the wrong mosfets in place or reversing them
- 3) Not handling mosfets properly and causing them to go bad before they get soldered onto the board.
- 4) Improper soldering technique, resulting in 'cold' (not actually connected) solder joints.



- A1 FIDUCIAL-KRAY
- A2 FIDUCIAL-KRAY
- A20 FIDUCIAL-KRAY
- A4 FIDUCIAL-AI
- A12 FIDUCIAL-AI
- A11 FIDUCIAL-AI
- MH2 MH356
- MH1 MH356
- MH3 MH356
- MH4 MH356
- MH5 MH350
- MH6 MH350
- MH7 MH350
- MH8 MH350
- MH11 MH356-TOOL
- MH12 MH356-TOOL

CI is a 1000 uF 16VDC electrolytic. Digkey # 4023PHCT-ND

PCB1  
HYZOR-REVA

REV	DESCRIPTION	ECN #	INIT	DATE
A0	PROTOTYPE		DWB	6-21-05
REVISION HISTORY				
EAGLE RESEARCH INC.				

TITLE: HYZOR CIRCUIT  
MAIN PCB

DESIGNER: DAVID W. BYBEE	ENGINEER: GEORGE WISEMAN
SIZE: A	REVISION: A0
DATE: 6-21-05	SHEET: 1 OF 1
FILENAME: HYZOR-REVA.SCH	