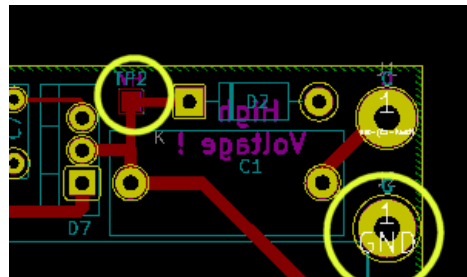
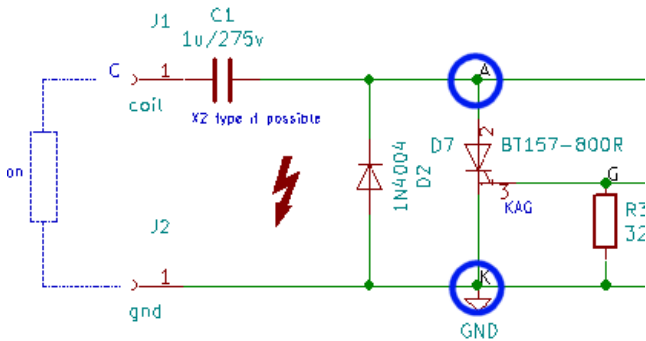


1) Remove the PIC

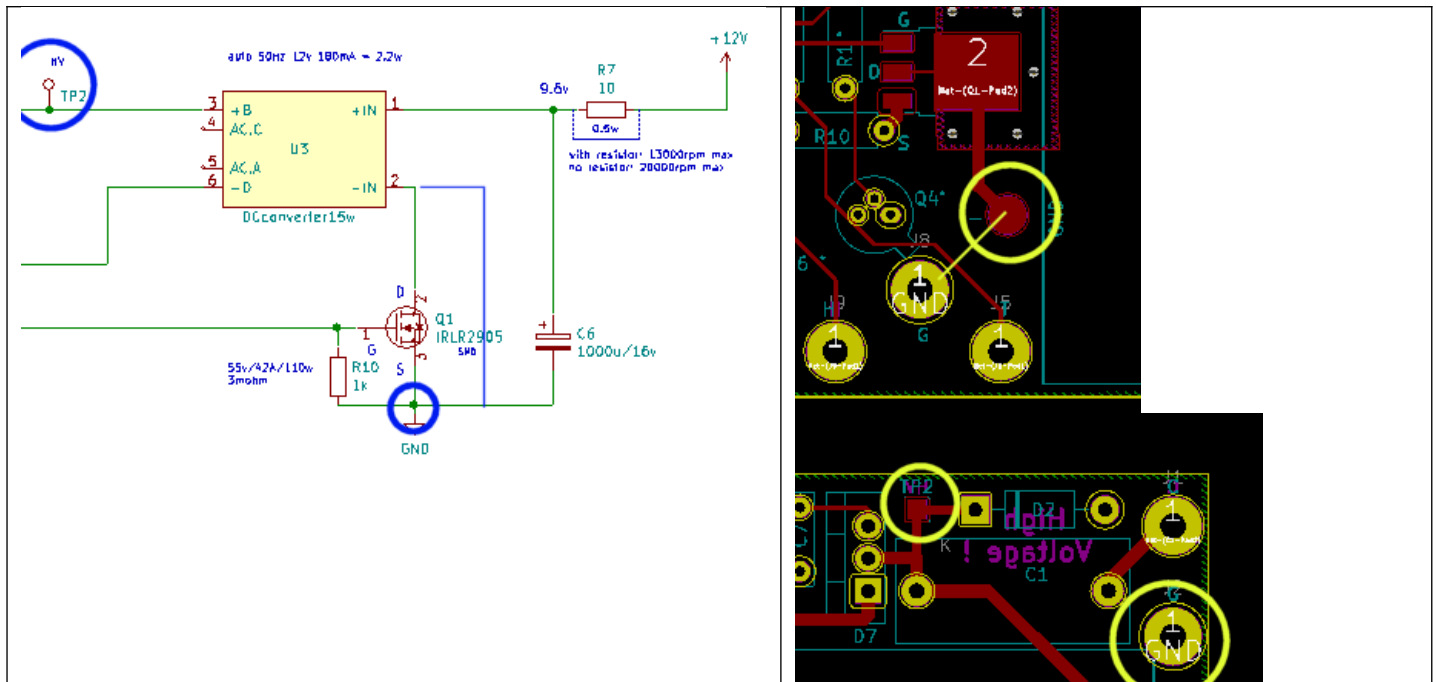
2) Use the multimeter in ohm position to check if no short between TP2 and GND



If shorted, replace D2 and D7

3) Power on the unit. Check the +12v and +5v lines. Power down the unit.

4) **Test the DC-Converter:** Connect pin 2 of DC converter to GND

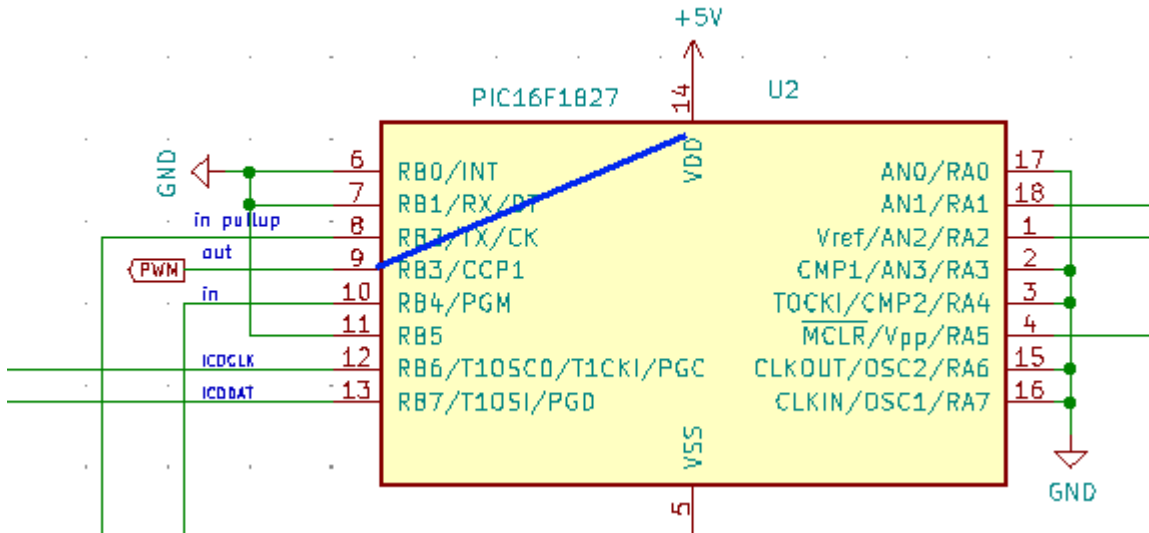


Power on the unit. Check if around 300Vdc between GND and TP2

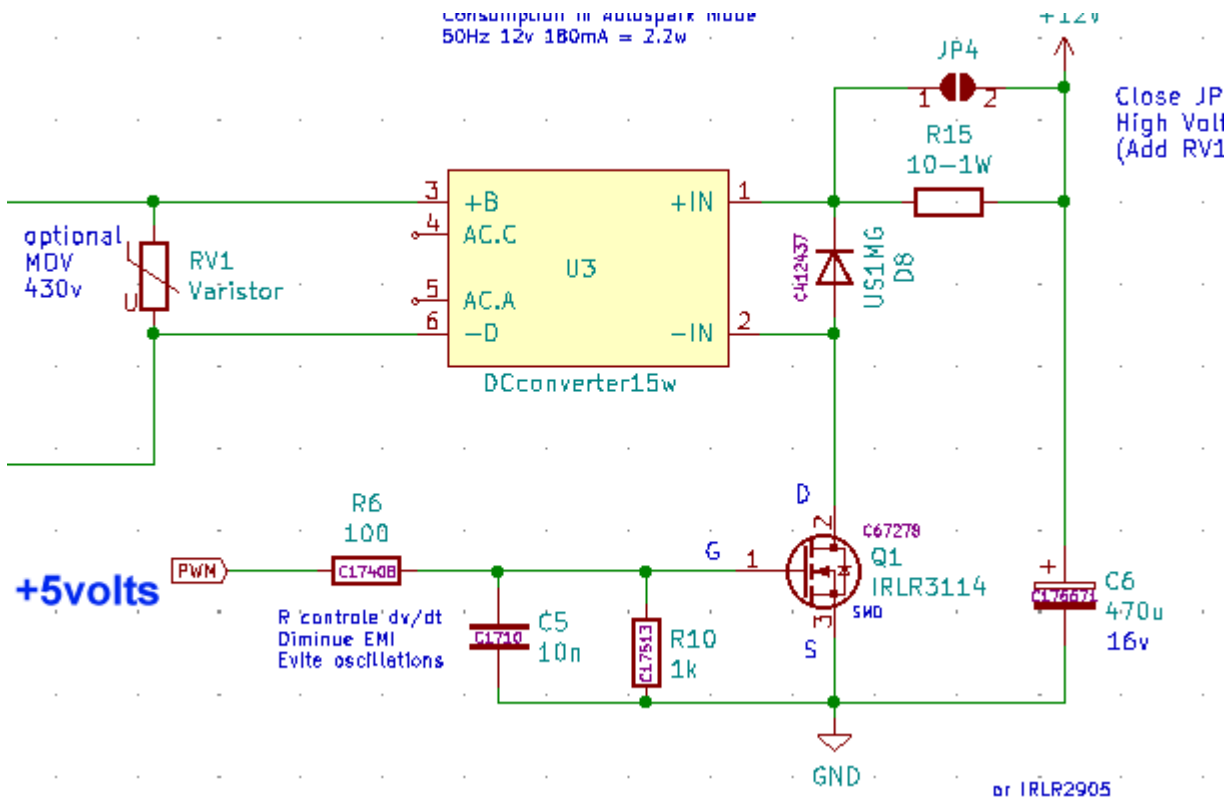
If no HV: repair/replace DC Converter

Remove the connection between pin2 and GND

5) Test the MOSFET: Connect pin 14 (+5v) to pin 9 (PWM) in the PIC socket.



When IRLR3114 receive +5v on its gate, it turns on, pin2 of DC converter is connected to ground and you have 300vdc between GND and TP2



If no HV: replace IRL3114

Remove the connection between pin9 and 14

6) Insert the PIC, power on the unit.

Is the led flashing 2 or 4 times?

Turn off the unit.

7) Connect a sparkplug connected to gnd.

Close JP1 jumper to select "Autospark" mode. Turn on the unit.

Led turns on and Voltage at TP2 should be around 200V. (On a True-RMS multimeter)

Video: <https://youtu.be/m-b0zJKN43o>

Are there any spark?

Turn off the unit.

8) Remove JP1. Turn on the unit. With a wire connected to +5v make a series of very fast touches on TP1 to "simulate" a pickup signal.

Is the LED blinking?

9) Remove the PIC, connect Test Point TP2 to pin 18. Turn on the unit.

Is D4 led blinking when pickup signal comes in?

Do this test in the darkness to see small led lighting. OFC if you get a scope, it's an easy task!

