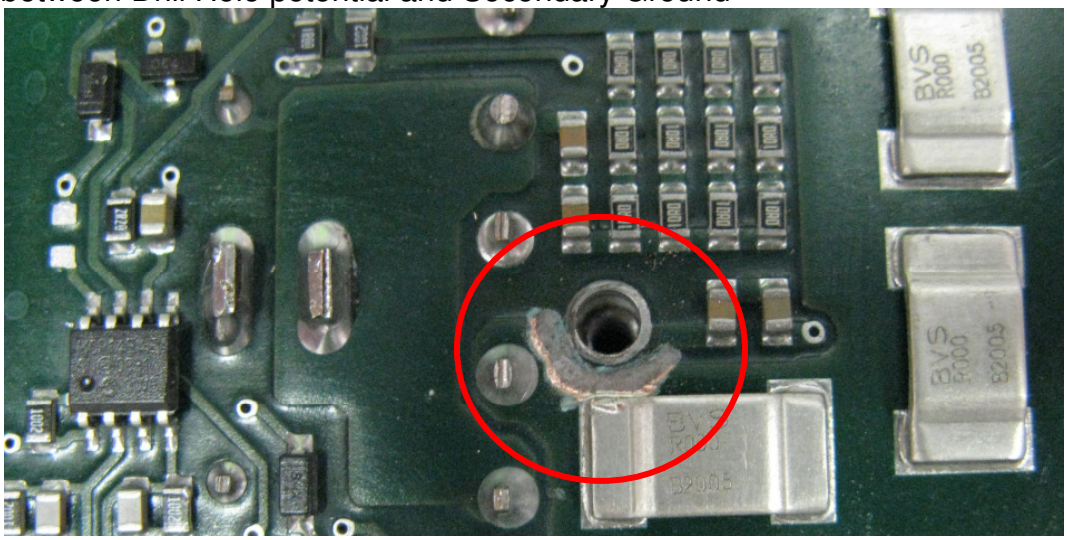
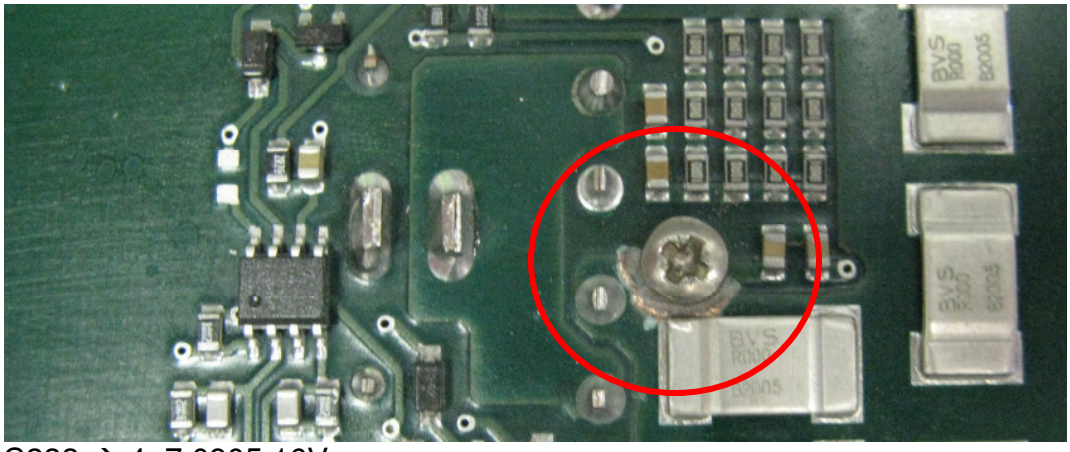
Reworks dsPIC Microchip Server PSU (Mainboard)

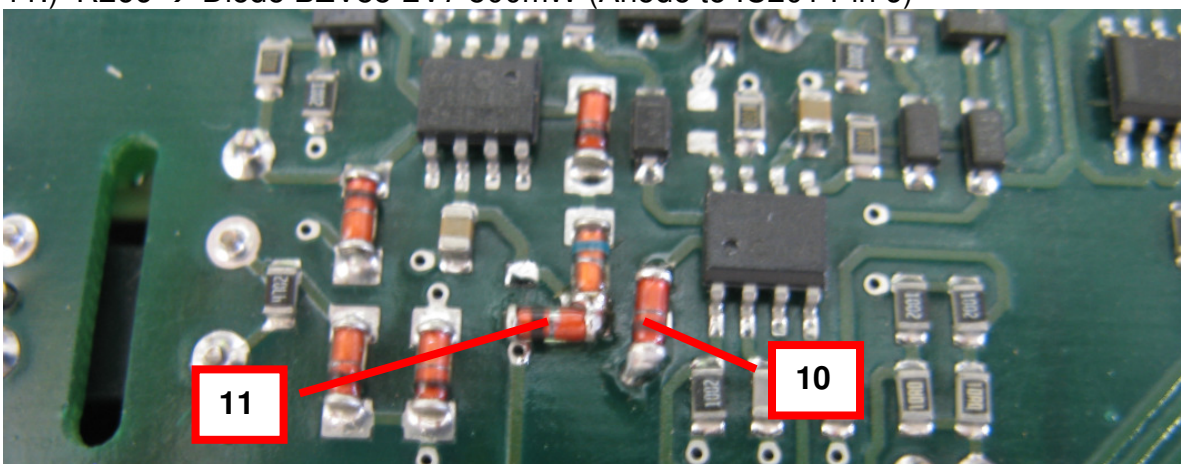
1.) R240/R225 remove
2.) R248 → 4R7
3.) V207 → 2N7002 N
4.) R116 → 4R7
5.) C119 remove
6.) V111 → 2N7002 N
7.) Remove Bottom Copper around the Drill Hole to be pass with distance between Drill Hole potential and Secondary Ground



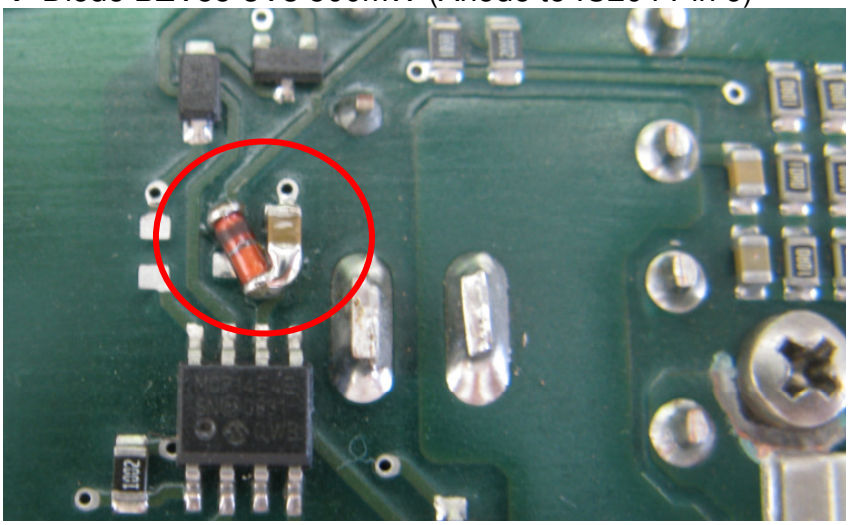


8.) C233 → 4µ7 0805 16V
9.) C234 → 4u7 0805 16V

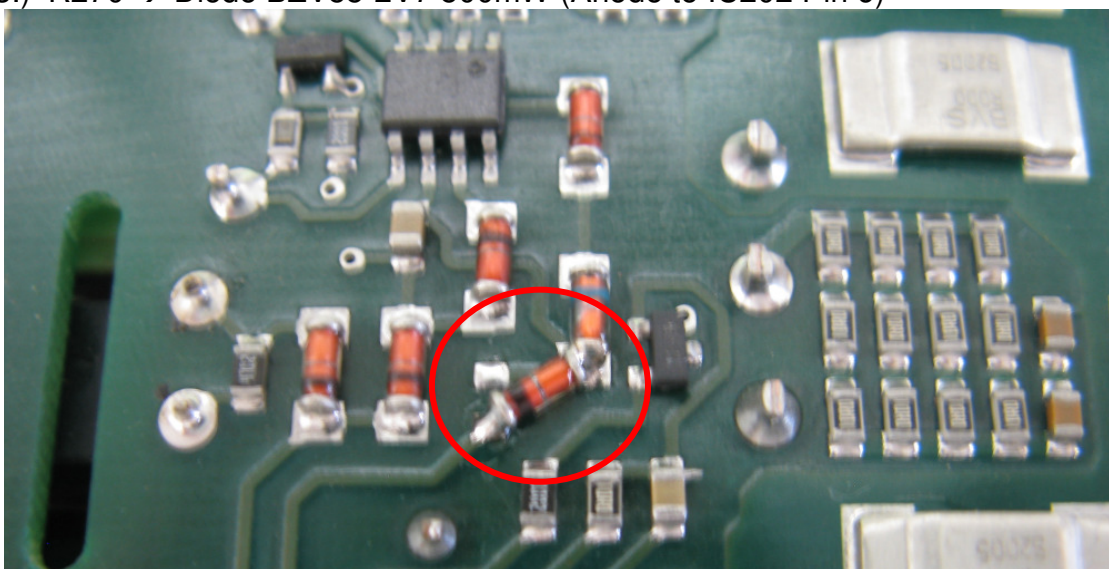
10.) R226 → Diode BZV55-3V3 500mW (Anode to IC203 Pin 6)
11.) R266 → Diode BZV55-2V7 500mW (Anode to IC201 Pin 6)



12.) R228 → Diode BZV55-3V3 500mW (Anode to IC204 Pin 6)

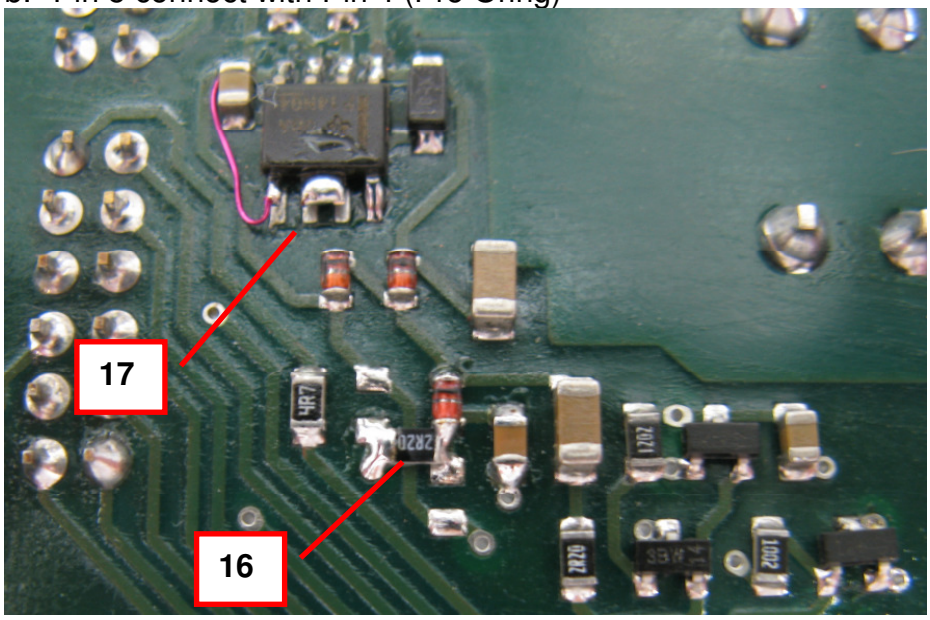


13.) R270 → Diode BZV55-2V7 500mW (Anode to IC202 Pin 6)

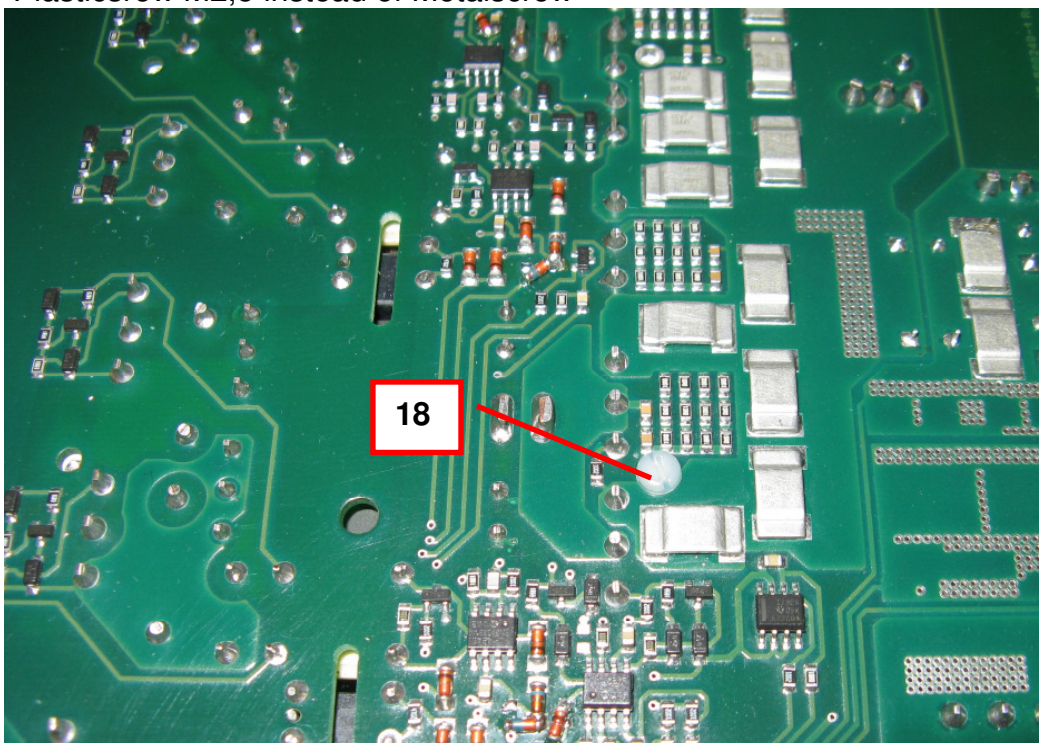


14.) D218 → BAV303 assamble
15.) C223 → 100nF 0805 assamble

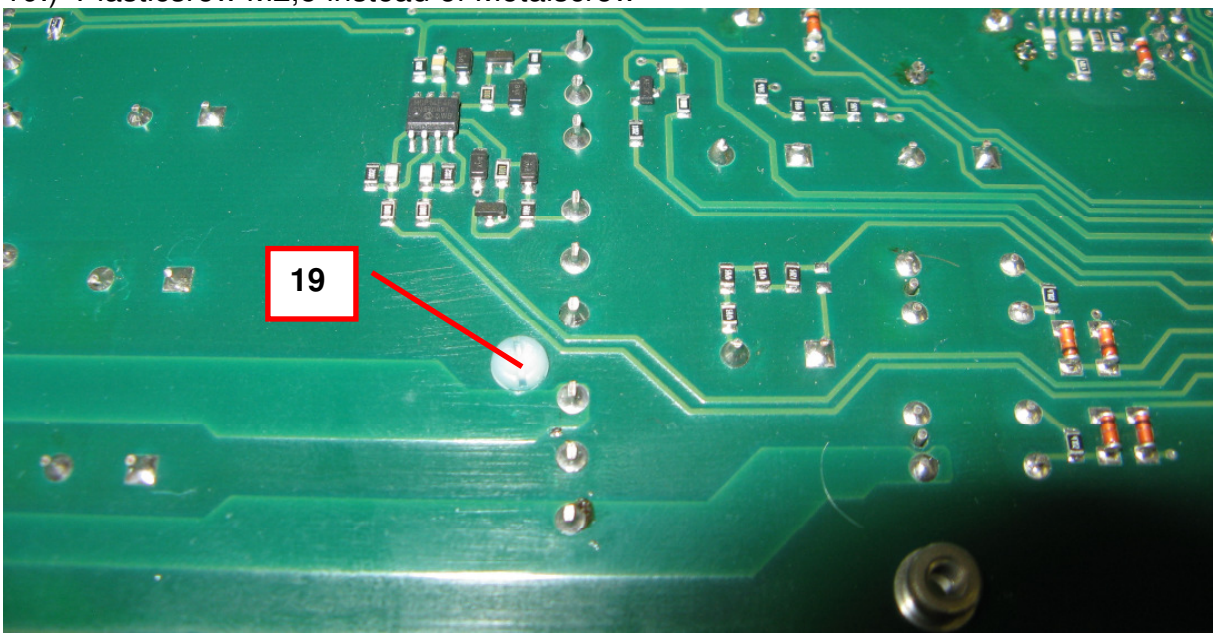
16.) R252 = 2R2 from D218/Anode to 12V0 Supply
17.) IC206 → Pins 5,6,7 remove from Pads
   a. Pins 6 and 7 connect
   b. Pin 5 connect with Pin 4 (Pre Oring)



18.) Plasticsrew M2,5 instead of Metalscrew

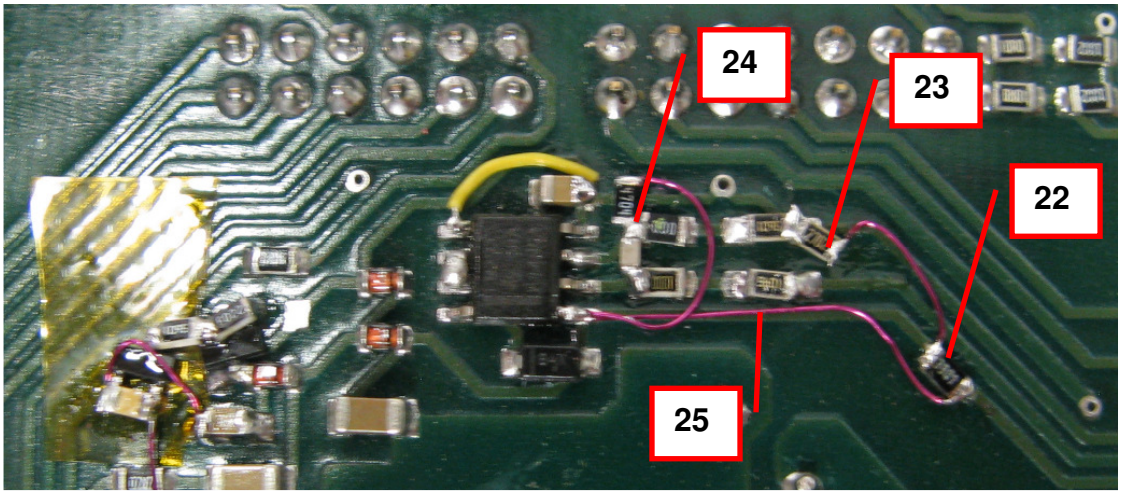


19.) Plasticsrew M2,5 instead of Metalscrew



Oring and Charge Pump Reworks

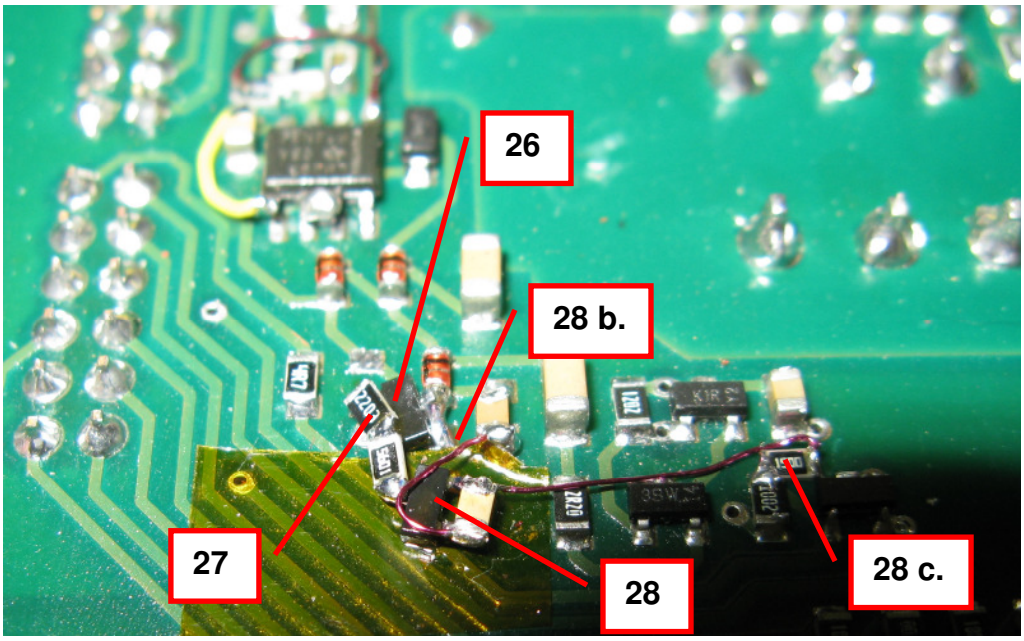
20.) R253 → 0R 0805
21.) D221, D220 → 5K6 0805
22.) Cut Connection under shown Resistor and Connect a 3K9 0805 between the cut Connection
23.) 27K 0805 between Resistor from task 22.) and Pre Oring Signal
24.) 22pF 0603 between Pin 2 and Pin3 of IC206
    a. 4M7 0805 Resistor between Pin 1 and Pin 3 of IC206
25.) Connection from Pin 1 of IC206 and Resistor from Task 22.)



26.) Add a BC856 Transistor with Pin 3 and turn it with Top Side to Bootom at D218 Cathode

27.) Add 220K 0805 betwenn Pin 1 and Pin 2 of the BC856 Transistror.
   a. Add Pin 2 of the BC856 Transistor to 12V0 Signal under this Pin 2
   b. Add a 5K6 0805 Resistor to Pin1 of this Transistror

28.) Add a BC846 Transistor with Pin 3 and with Top Side to bottom to the 5K6 Transistor.
   a. Connect a 1µF Cap 16 V 0805 between Pin 1 and Pin 2 of the BC846 Transistor
   b. Connect Pin 2 to GND.
   c. Connect Pin 1 with a 150R 0805 Resistor to R248



PCB_BOTTOM_all