SP520 5KW 09 flaut code checking guide

1. Unit disassemble Step

① Remove the screws of top cover and wire cover.







2 Take out wire cover and open the top cover.



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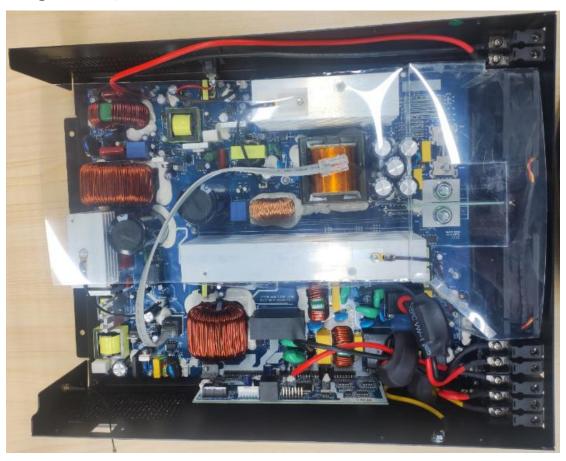
4 Remove the screws of communication board



(5) Remove the antenna, Then take out the communication board.



6 Take out top cover.



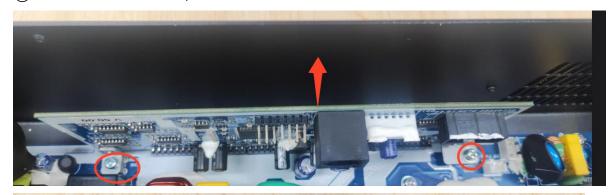
7 Take out the plastic nails and PVC mylar



8 Remove these cables from the main board.

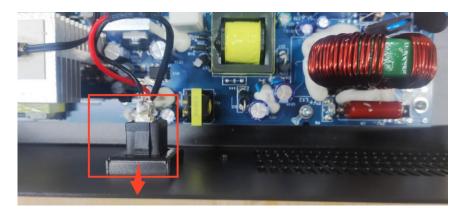


(9) Remove 2 screws as below; Then take out the control board

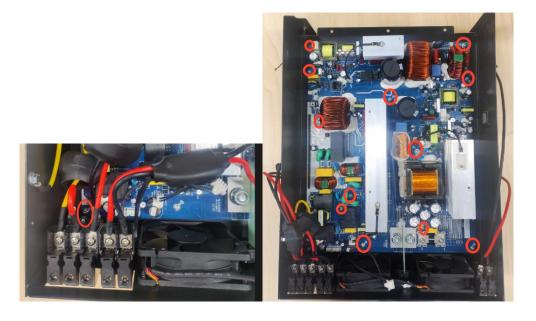




10 take out main switch



(1) Remove 13 screws from main board.



12 Take out main board.

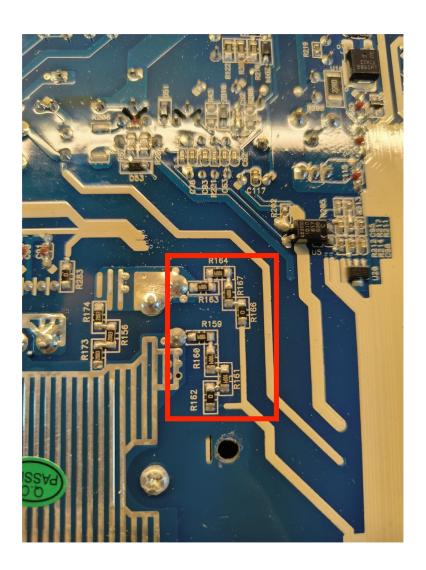


2. 09 flaut causd by bus soft start fail

2.1 Resistors and Pads checking.

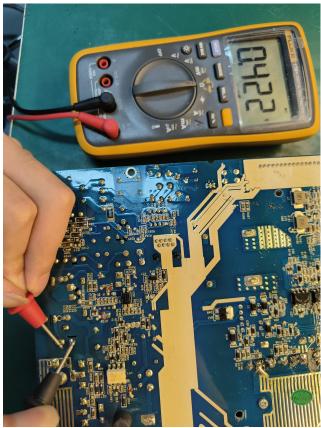
Position	Value	Remark	
R159,R160,R161,	1ΜΩ/1206J	1.Make sure those that the pads of	
R163,R164,R167		those resistors are ok, re-solder	
R162,R166	0Ω/1206J	and test again. 2.If those resistors are broken, need to be replaced as the same specifications.	



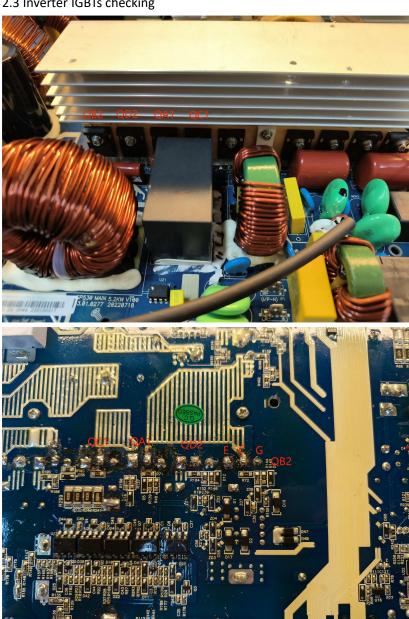


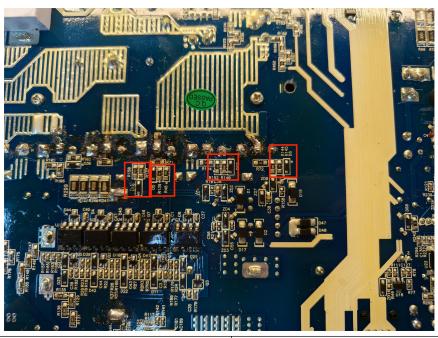
2.2 Bus soft start diode checking, $\,$ VF $\!\!\approx\!$ 0.422V should be ok.





2.3 Inverter IGBTs checking





Components	Normal range (Value)	Remark
QB2,QD2,QA1,QC1	V _{FC} = 0.372V	Multi meter diode
IGBT SL/SGT75T65SDM1P7 75A 650V TO-247	V _{EC} - 0.372 V	position
for 5.5KW	V _{GC} = 1.93V	
IGBT SL/SGT50T65SDM1P7 50A 650V TO-247		
for 3.5KW		
R48,R144,R137,R140	39Ω/1206J	
39Ω/1206J		
R139,R145,R150,R152	10Ω/1206J	
10Ω/1206J		
D5,D6,D16,D12	Resistance P-N=59 Ohm REF	
DIODE PAJ 1N4148W 0.15A 75V SMD		