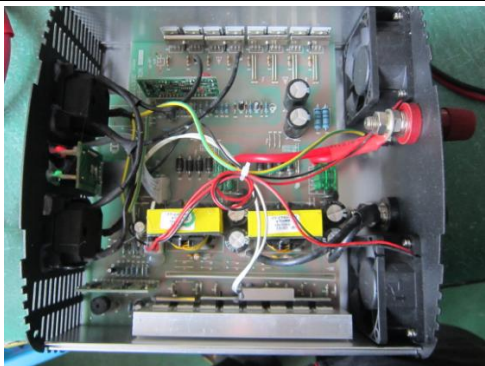


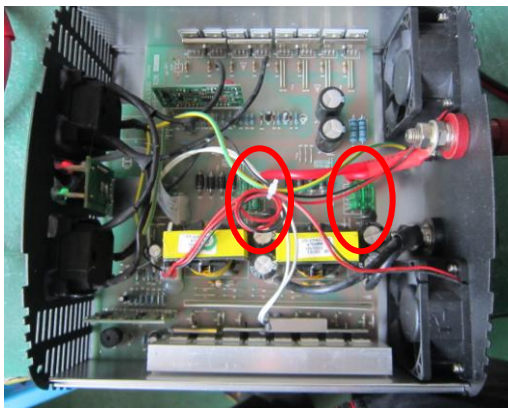



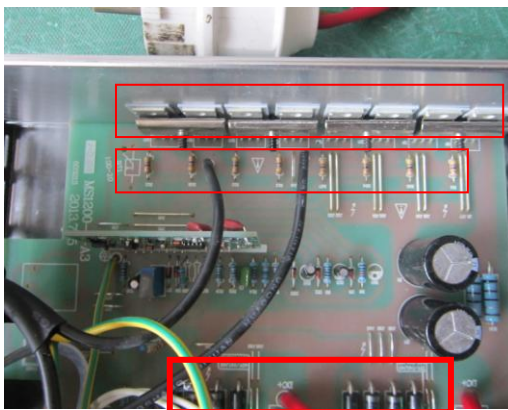
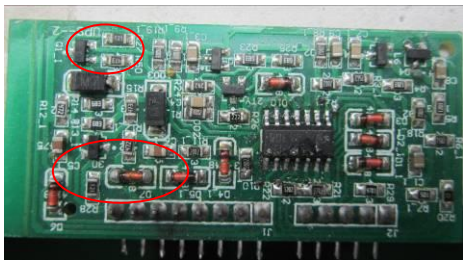
Model: IOE-1000-12/24

	Equipment name	Model&Specification
1	DC adjustable power supply	DC0-36V-20A adjustable
2	Electrical data meter	indicate AC voltage/current,power/frequency
3	Universal meter	FLUKE 117
4	Oscilloscope	Above 50MHZ
5	soldering machine	Any brand
6	Electric screwdriver	equipped with small and medium sized head screws

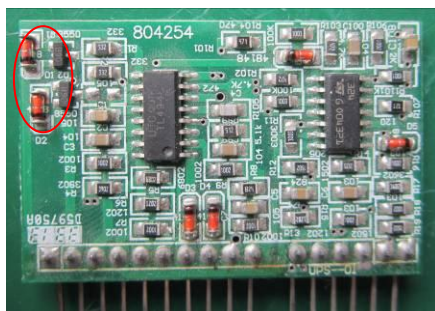
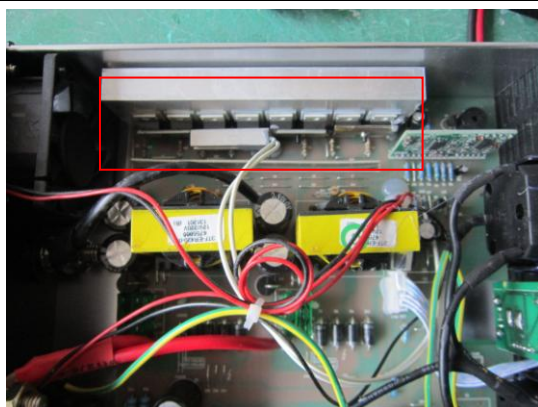
### Repair step

Check step	picture	phenomenon	Repair step	Remark
1.checking with dc power		Watch and hear inverter's phenomenon	1.adjust the dc current@5A,voltage is according to inverter's voltage。 2.connect the+/- to the right terminal and turn on the switch,then watch and hear the inverter function.	DC current should be below 5A.

<p>2.Check the internal safety fuse.</p>		<p>No ac output, red/green light are both off,no alarming.</p>	<p>1. open the casing and check the fuse whether it is disconnected。 If it is open,pls replace it with new extra fuse in the package when you buy it.</p> <p>2. if fuse is ok,pls check the switch and internal wire whether they are poor contact。</p>	
<p>3.check the leakage protection part</p>		<p>No ac output, green/red light is continuous on, no alarm</p>	<p>1.When turn on the switch,if red/green light is both continuous on,pls check whether the AC load is leakage,pls remove the ac load and re-start the inverter,check whether it is ok.</p> <p>2.if red light is still on,pls check the small pcb on the main PCB,pls use meter to measure the below components: R9, Q5, Q6.if R9, Q5, Q6 is ok.pls check the "IC LM324"</p>	

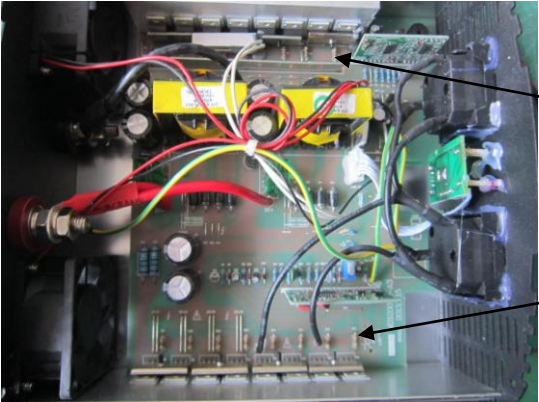
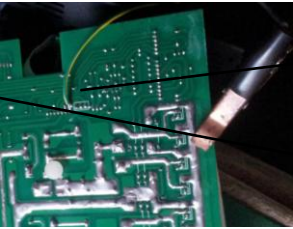
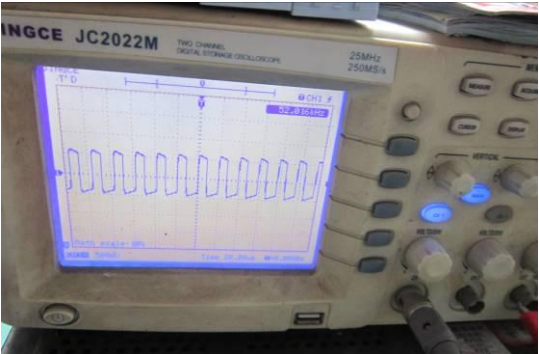
4.check the output part		No ac output,green light is continuous on,red light is flashing.	1.check the output part's MOSFET:Q8-Q15 , if damaged,pls replace. 2.check the resistor connecting to mosfet's G pole: 11.12.10.13.26.27.24.25。 3.check the diode,if damaged,pls replace	
		No ac output,green light is continuous on,red light is flashing.	4.Check position:R27, 28 5.check Q1, Q2 6.check D5, D6, D7 7.if the above position is all OK, pls check the "IC LM324".	

5.check the front booster part



1.No ac output,green light is continuous on,red light is flashing.

1. Check MOFET:Q1-Q8
2. Check the resistor connecting to MOSFET's G pole:  
R40.36.41.42.43.34.
3. Check the diode and resistor and the 2<sup>nd</sup> picture show.

6.check the drive waveform and voltage			<ol style="list-style-type: none"> <li>1. Turn off the switch,connect a cable to the referred point.</li> <li>2. the wire connect to "+", dc input "-" connect to dc power "-".test the MOSFET'S G pole voltage.</li> <li>3. primary mosfet's G pole voltage is between 4-6V , output part mosfet's G pole voltage is between 5-8V. and the voltage difference among the mosfets can't exceed 0.5V</li> </ol>	<ol style="list-style-type: none"> <li>1. the inverter's switch must be "OFF" before connecting to DC power.</li> <li>2. DC current should be below 5A.</li> </ol>
		Test the primary part's mosfet's waveform.		
7.test all the functions with dc power supply			<ol style="list-style-type: none"> <li>1. After the repairmen,remove the wire solderingon the pcb,, assembly the casing.</li> <li>2. Aging it with small ac lamp for 30min</li> </ol>	