

## TROUBLESHOOTING

NO.	Error code	Code Explanation	Cause/Solution
1	100	Voltage error	Return to factory for repair
2	110	Over-voltage protection	Discharge the battery
3	140	Discharge undervoltage protection	Connecting the Charger Adapter
4	150	Over temperature protection	Wait for the device to cool down
5	160	Low temperature protection	Low temperature environment which need to increase the temperature
6	170	temperature error	Temperature environment too high/low/NTC disconnection or short circuit
7	200	Product problem	Needs to be returned to the factory for repair
8	310	Charge and discharge short circuit	Reboot device
9	410	Undervoltage protection during jumping start	Connect the charger
10	411	Undervoltage protection before Jumping start	Connect the charger
11	420	Start over temperature protection	Wait for the device to cool down
12	430	The external battery voltage is greater than the device voltage	<ol style="list-style-type: none"> <li>1. If the displayed voltage is lower than 12V, the device voltage is low, please connect the charger to supply power.</li> <li>2. If the displayed voltage is higher than 12V, the car battery is normal; or the car battery voltage is too high, which is not suitable for this product. Please use an igniter that supports higher voltage.</li> </ol>
13	440	Clamps reversed connected	Connect the car battery correctly
14	450	Short circuit when started	Restart the device
15	470	Voltage difference protection before starting	Return to factory for repair
16	480	Continuous start protection	Wait 30 seconds to start again