

## Troubleshooting Method

<b>Troubleshooting Method for Fault Locking State</b>			
<b>Fault code</b>	<b></b>	<b>Fault name</b>	<b>Troubleshooting methods</b>
10	Error	Extremely high voltage	a check vehicle power supply system
11	Error	Extremely low voltage	a check vehicle power supply system
21	Error	Open circuit of warm air outlet temperature sensor	a check whether the sensor is in good condition.
22	Error	Short circuit of warm air outlet temperature sensor	a check whether the sensor is in good condition.
23	Error	Open circuit of water temperature sensor	a check whether the sensor is in good condition.
24	Error	Short circuit of water temperature sensor	a check whether the sensor is in good condition.
25	Error	Open circuit of external temperature sensor	a check whether the sensor is in good condition.
26	Error	Short circuit of external temperature sensor	a check whether the sensor is in good condition.
27	Error	Open circuit of combustion-supporting temperature sensor	a check whether the sensor is in good condition.
28	Error	Short circuit of combustion-supporting temperature sensor	a check whether the sensor is in good condition.
31	Error	Ignition failure	a check the diesel supply system b check whether the combustion-supporting inlet and outlet are blocked c check glow plug and flame sensor
32	Error	Combustion failure	a check the diesel supply system b check whether the combustion-supporting inlet and outlet are blocked c check the flame sensor.
33	Error	Flame sensor failure	a check flame sensor leads b check flame sensor
41	Warning	Warm air outlet temperature is too high	a check whether the air inlet and outlet are blocked
42	Warning	Warm air overheat switch protection	a check whether the air outlet is blocked b check the heater overheat switch
43	Warning	Water temperature is too high	a check whether the water tank is short of water. b check whether the sensor is in good condition. c check whether the air outlet is blocked
44	Warning	Water temperature overheat switch protection	a check whether the air outlet is blocked b check the water temperature overheat switch
45	Error	Continuous overheat fault(over 30 mins)	a check whether the air outlet is blocked b check the water temperature sensor c check heater sensor
46	Error	Furnace overheat Switch protection	
51	Error	Communication failure	a check the connection cable

61	Error	Open circuit of oil pump	<p>a check whether the oil pump lead is damaged</p> <p>b check whether the oil pump lead connection is reliable.</p> <p>c replace oil pump</p> <p>d replace motherboard</p>
62	Error	Oil pump short circuit	<p>a check whether the oil pump lead is damaged</p> <p>b check whether the oil pump lead connection is reliable.</p> <p>c check oil pump</p> <p>d replace motherboard</p>
63	Error	Open circuit of glow plug	<p>a check power supply voltage</p> <p>b check the normal temperature resistance of glow plug (<math>0.2\Omega/12V</math>)</p> <p>c clean up carbon deposits in glow plug</p> <p>d replace motherboard</p>
64	Error	Short circuit of glow plug	<p>a check power supply voltage</p> <p>b check the normal temperature resistance of glow plug (<math>0.2\Omega/12V</math>)</p> <p>c clean up carbon deposits in glow plug</p> <p>d replace motherboard</p>
65	Error	Glow plug has no drive	a replace motherboard
66	Error	Glow plug detective open circuit	
71	Error	Gas valve failure	a Check gas valve coil and lead
72	Error	Gas valve power failure	a Replacement motherboard
81	Error	Open circuit of combustion-supporting fan	a check combustion-supporting fan
82	Error	Combustion-supporting fan failed to start	<p>a check motor lead connection</p> <p>b check combustion-supporting fan</p>
83	Error	The speed of combustion-supporting fan is too low.	a check combustion-supporting fan
84	Error	Open circuit of heater fan	a check the heater blower.
85	Error	The warm air blower failed to start.	<p>a check motor lead connection</p> <p>b check the heater blower</p>
86	Error	The speed of warm air blower is too	a check the heater blower.
91	Error	High voltage package failure	a Check the ignition coil and lead

92	Error	High voltage power supply failure	a Replacement motherboard
93	Error	High voltage circuit failure	a Replacement motherboard
94	Error	Gas valve circuit failure	a Replacement motherboard
110	Warning	Window opening alarm	a check window switch connection cable
120	Warning	Low voltage alarm	a recommend charging
220	Error	220V no connection	A check AC 220V power supply system
168	Error	Watchdog reset	Check the watchdog
169	Error	Abnormal power failure	a. Please do not cut the power off before the heater stops working completely; b. Check if the power supply has any problem; c. Check if the heater has any earth contact with the car/battery.
224	Error	No initial signal	
238	Error	Unknown error	