



Error Codes	Error Explanation	Error Fixing
E01	Flame sensor open circuited	Please connect the lead properly if it's loose.
E02	Flame sensor short circuited	Use multimeter to check if the flame sensor is short circuited or open circuited. Please repair or replace it if true.
		Use multimeter to check if the flame sensor is broken. Please replace it if true.
E03	Flame temperature exceeds the maximum safe temperature	Check if the air inlet, outlet and the exhaust pipe are blocked. Please clean up if true.
E04	Flame temperature is lower than the minimum ignition temperature; ignition failure	Check whether there is fuel inside the tank. If not, please refuel.
		Check whether the fuel pipe is blocked, and whether the connection is correct. If not, please repair or replace it.
		Check whether the fuel is frozen. If true, please use fuel suitable for low-temperature environment.
		Check whether the exhaust pipe is blocked. If true, please clean it up.
		Please replace the controller
E05	Air sensor open circuited	Please check the plug of the air sensor.
E06	Air sensor short circuited	Please contact the dealer or manufacturer.
E07	Overhigh supply voltage	Use multimeter to check the voltage of power. If it's lower than DC 20V, please charge the battery or use a new one; if it's higher than DC 30V, please use a new battery.
E08	Over or low supply voltage	Use multimeter to check the voltage of power. If it's lower than DC 10V, please charge the battery or use a new one; if it's higher than DC 15V, please use a new battery.
E09	Glow pin grounded	Check if the glow pin is broken. If true, please replace it; use multimeter to check the resistance value between two leads of the glow pin. The value should be within 1-4 Ohm. Please replace it if not.
E11	Glow pin open circuited	Please connect the lead properly if it's loose.
E12	Fan motor open circuited	Please connect the electric motor plug properly if it's loose.
E13	Fan motor short circuited	Test (electrically) the electric motor to see if it operates properly. Please replace it if not.
E14	Electromagnetic pump failure	Please connect the lead properly if it's loose.
E15		Use multimeter to check the resistance value of fuel pump. It should be within 15-25 Ohm. Please replace it if the value is out of range.

Error Codes	Error Explanation	Error Fixing
E16	Heater offline (serial port error between the main board and the heater)	Please correct the serial connection.
E17	Altitude sensor failure (fail to read the altitude)	Please repair or replace the altitude sensor.
E18	Reserved	
E19	Boot failure of the heater	Please check whether there is fuel in the fuel tank; check whether there is carbon in the air outlet. If true, please clean the carbon; Aging of glow pin.

Note: the messy code would occur when the flame sensor is short-circuited or grounded.
Please pay attention when you replace it.

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