

## 2000 Series Engine Heater Error Codes

When the 2000 Series Engine heater is operating correctly a green light will illuminate on the big black switch, indicating all is ok.

Should any faults occur, a red light will “flash” on the big black switch. If this happens, disconnect power to the heater for 3 seconds, then turn on again. The fault should be cleared.

If the fault code is not cleared it will remain until the fault is rectified.

The user will need to count the number of slow and fast “flashes” of the red light and then refer to the troubleshooting table below.

Please note that 1 indicates slow flashing and 0 indicates fast flashing.

**EXAMPLE :** E01,00000 indicates 5 fast flashes. E02,00001 indicates 4 fast flashes and 1 slow flash.

ERROR CODE	RED LIGHT FLASHES	FAULT	TROUBLESHOOTING
E01	00000	Overheating sensor open circuit	Overheating temperature sensor has loose connection or faulty. Reconnect and test.
E02	00001	Motor or fuel pump failure	Test motor or fuel pump resistance, replace the part/s as required.
E03	00010	The voltage is too high	The voltage is continuously higher than 16V for 5 seconds. (not common)
E04	00011	Low battery voltage	The voltage is continuously lower than 10V for 20 seconds.
E05	00100	Overheating sensor short circuit	Replace overheating sensor.
E06	00101	Water temperature sensor failure	Check water temperature sensor plug is connected securely or replace sensor.
E07	00110	Water temperature sensor failure	Replace water temperature sensor.
E08	01000	Fuel pump failure	Check the fuel pump plug connection & wiring harness for shorts. Replace the fuel pump.
E09	01101	Ignition failure	1. If there is smoke from the exhaust pipe and no fuel leaks, check the fuel delivery system and the fuel pump connection. 2. If there is fuel leaking from the exhaust pipe and no smoke, check the glow pin and the glow pin connection.
E10	01110	Heater suddenly stops operating	1. Check fuel and supply lines, check excessive carbon buildup in heater.

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		during normal operation	2. Check if fuel pump is operating.
E11	10010	Glow pin open circuit	Check the glow pin plug connection. Check if the glow pin is working properly.
E12	10011	Glow pin short circuit	Replace glow pin and glow pin filter.
E13	10101	Motor failure	Check if the motor fan is operating.
E14	11011	Heater is excessively hot when touched	Check the combustion air inlet and exhaust pipe to ensure that they are not blocked.
E15	11101	Electric fan failure	Check electric fan connection and if fan is operating. Replace as required.
E16	11110	Heater not circulating coolant properly	Check that the water pump is operating. Make sure that there is no air in the heater or hoses.
E17	11111	Heater switch failure	Check wiring connection of switch to the heater unit. (not common)