

D12W Water Heater

Fault Codes and Remedies

Espar

Model #'s

25 1570/71

25 1655/56

25 1744/45

25 1859/60

Fault Code	Fault description	Indication	Remedy
		Fault signal/flashing code	
000	No fault	████████████████████	
001	Pre-heating, overvoltage	■ ■ ■ ██████████	Check control unit. Charge battery
002	Pre-heating, under voltage		
010	Overvoltage switch-off	██████ ■ ■	Check control unit. Check battery charge. Connect heater directly to the battery.
011	Under voltage switch-off	██████ ■	Charge battery, Check control unit. Check cross sections of power leads.
012	Overheating	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	Overheating switch has triggered, vent heater (lack of water), open heating valve, check water flow and switch. Check for continuity through fuel metering circuit. Check electrical leads and contacts to metering pump. Flame sensor has reported a high temperature. Check sensor.
013	Temperature at heat exchanger to high		
020	Glow plug defect	■ ■ ■ ■	Check glow plug. Check connections to glow plug and to glow plug relay. Check connection to control unit.
022	Short circuit in current regulator contacts		Check glow plug relay (current regulator). Check connection to glow plug, check connection to control unit.
023	Interruption in current regulator	■ ██████	Check coil connection to glow plug relay. Check connection to control unit.
024	Short circuit in current regulator coil	■ ■ ■ ■ ■ ■	Check coil connection at glow plug relay. Check connection to control unit.
025	Short circuit at diagnostic output	No flashing code	No flashing code. Check diagnosis lead. Check connection to control unit.

Fault Code	Fault description	Indication	Remedy
		Fault signal/flashing code	
030	Combustion air fan does not rotate		Check combustion air fan. Replace if necessary. Check motor speed relay . Check connection to control unit
031			
032			
033			
037	Water pump does not rotate		Check water pump (external triggering). Check connections to control unit
047	Short circuit in metering pump		Check metering pump. Check connections to control unit.
051	Flame sensor defect		Temperature at flame sensor does not fall below Check flame sensor or combustion, possibly replace.
052	Failure to start/safety time expired		No flame was detected during the start up phase . Check the fuel supply & cable harness of metering pump. Check glow plug, exhaust & combustion air piping.
053	Flame out in "high" mode		Heater has started (flame detected) and indicates flame loss in power setting. Check fuel flow rate, blower speed, combustion is O.K, necessary.
055	Flame out in "low" mode		
059	Water temperature rises too quickly		Check water circulation and temperature control sensor
060	Interruption in temperature sensor		Measured temperature lies outside measuring range. Check sensor.
061	Short circuit in temperature sensor		Check connection to control unit
		Indication	Remedy



Fault Code	Fault description	Fault signal/flashing code		
064	Interruption in flame sensor			Measured temperature lies outside measuring range. Check sensor.
065	Short circuit in temperature sensor	■ ■ ■ ■ ■		Check connections to control unit
090	Control unit defect (internal reset)			Replace control unit
092	ROM fault			
093	RAM fault			
094	EEPROM fault	■ ■ ■ ■ ■		
095	Control unit defect (general fault)			
096	Control unit defect (general fault)			
097	Control unit defect or cable harness fault	■ ■ ■ ■ ■		Check and if necessary replace control unit. Check cable harness.
091	External interference voltage	■ ■ ■ ■ ■		Check voltage supply. Check connection to control unit

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