

The Reno Service Engineer's Guide

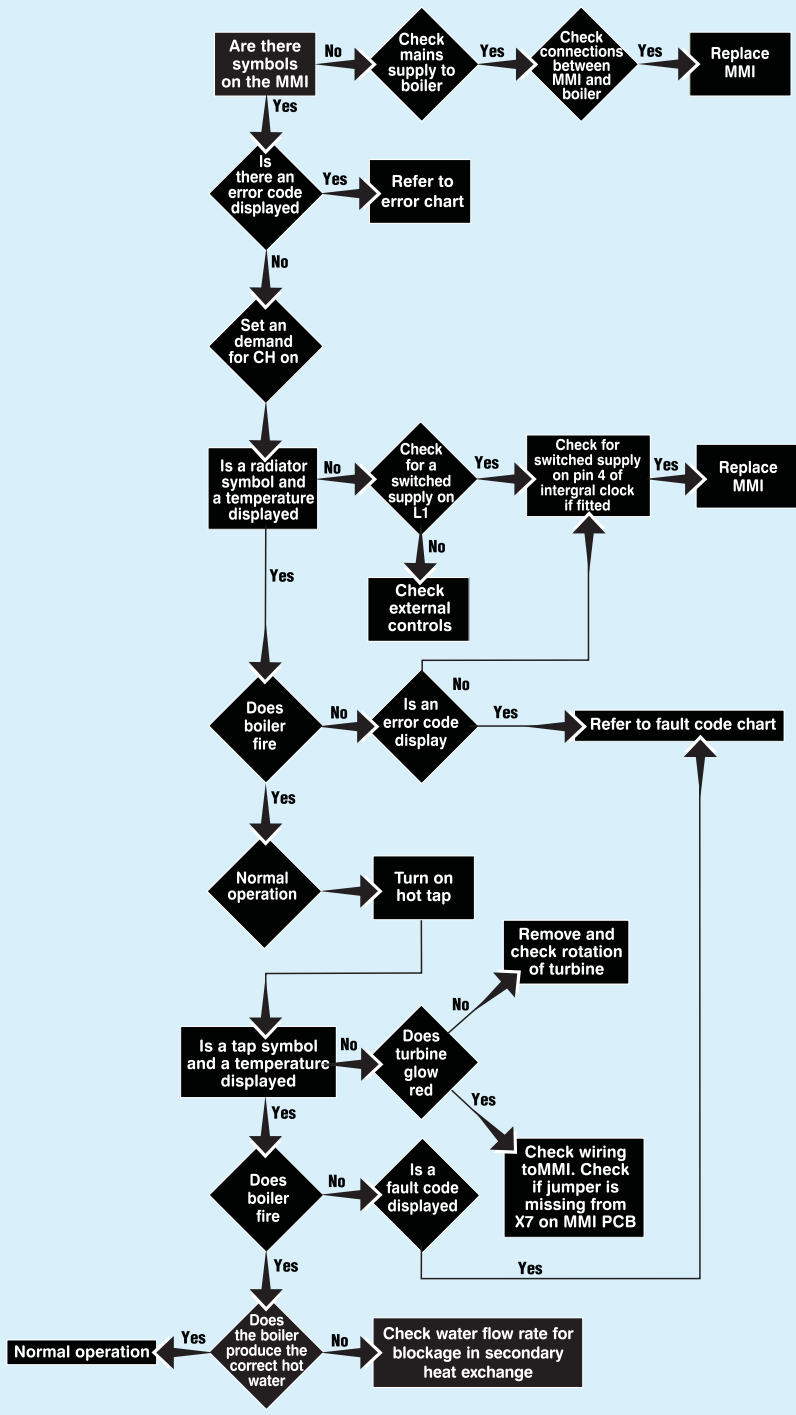


High Efficiency Combination & System Boilers &
RenoXtra High Efficiency Combination Boilers

Reno



**Johnson
& Starley**

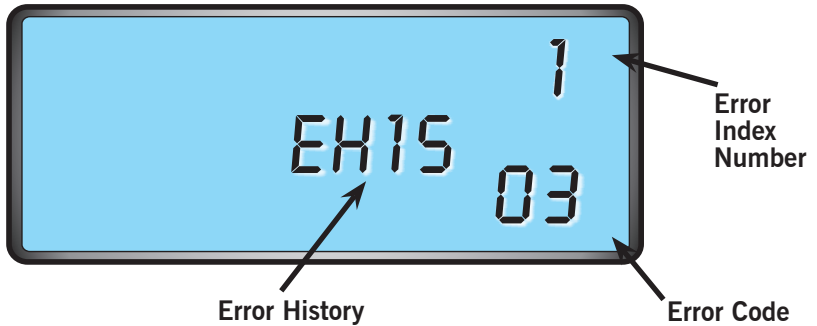


CODE	FAULT	REASON	ACTION
N/A	Boiler will not run.	No call for heat to boiler control board.	Check all external controls if fitted. Check settings of the time clock. Check settings of boiler controls.
N/A	No DHW output.	No call for DHW to boiler control board. No, or reduced, water flow.	Check water flow from appliance is correct. Check cold water-inlet filter. Check the wiring to the flow sensor. Check operation of the flow turbine.
01	Flame lockout after several ignition attempts.	Flame not detected.	Check gas supply and gas cock. If burners are alight, check flame sensor and wiring to control board. Check operation of gas valve.
02	False Flame	N/A	
03	High water temperature limit.	Air in boiler. No water flow.	Vent boiler. Check pump.
05	No tachometer from fan.	Fan not running or wiring faulty.	Check that fan runs. Check wiring between control board and fan.
07	High flue gas temperature.	Poor heat exchange into water.	Check heat exchanger insulation pad. Check heat exchanger for magnetic build up.
08	Flame circuit error.	Flame sensing lead shorted to earth.	Check flame detection lead between sensing probe and ignition control board.
09	Valve driver circuit error.	Gas valve not detected.	Replace ignition control board or gas valve
11	Flow return sensor calibration error.	During calibration period flow and return sensors do not come within 3°C within the maximum 5 minute time period.	Sensors not connected to pipes. Zone valves preventing water flow through boiler. No bypass fitted Faulty sensors.
10-25	Internal control board fault.		Replace main control board
26	Flame signal lost 5 times in 4 minutes.	Flame sensing error. Falling gas pressure. Fan fault. Flue blockage	Check flame detection lead between sensor and ignition control board. Check gas supply, does pressure fall when boiler fires. Check that flue system is not blocked.
30	Boiler flow temperature sensor short circuit	Temperature sensor shorted to earth or failed.	Check wiring and connections for shorting to earth. Check sensor resistance.
31	Boiler flow temperature sensor open circuit.	Temperature sensor not connected or failed.	Check wiring and connections. Check sensor continuity..
32	DHW temperature sensor short circuit.	Temperature sensor shorted to earth or failed.	Check wiring and connections for shorting to earth. Check sensor resistance.
33	DHW temperature sensor open circuit	Temperature sensor not connected or failed.	Check wiring and connections. Check sensor continuity.
34	Low mains supply voltage.	Electrical supply fault to property. Faulty wiring to appliance.	Check incoming mains supply and wiring to appliance.
35-36	Power supply fault.	No fault on boiler.	Boiler power supply should be checked by a qualified electrician.
37	Low supply water pressure.	Water pressure low or sensor failed.	Check system pressure on dial gauge and if correct check pressure sensor and wiring. Re pressurize system.
39	Open therm sensor (if fitted) shorted to earth.	Short circuit in wiring between sensor and control board.	Check wiring to sensor. Check the electrical resistance of the sensor.
40	High system water pressure.	System water pressure too high. Pressure sensor failed.	Check cold system pressure. Check expansion tank change pressure with system pressure release. Check pressure sensor.
43	Boiler return temperature sensor short circuit.	Temperature sensor shorted to earth or failed.	Check wiring and connections for shorting to earth. Check sensor resistance.
44	Boiler return temperature sensor open circuit.	Temperature sensor not connected or failed.	Check wiring and connection. Check sensor continuity.
45	Flue gas temperature sensor short circuit	Short circuit in wiring between sensor and control board	Check wiring to sensor. Check the electrical resistance of the sensor
46	Flue gas temperature sensor open circuit	Temperature sensor not connected or failed	Check wiring connections. Check sensor continuity.
99	Communication Error.	No connection between MMI and CVBC.	Check wiring and plug connections. There should be 4 plug connectors to MMI, X2, X3, X5 and C1.

Error History Mode

When button is pressed error history mode will be entered.

Besides the standby information the following information is displayed on the MMI.



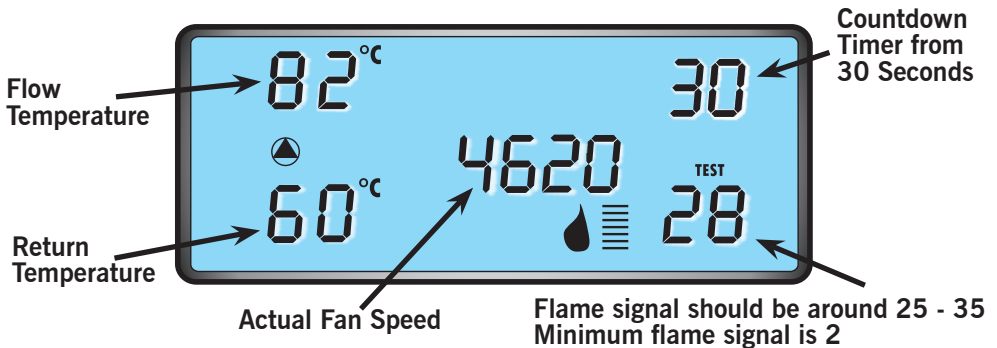
Pressing the up and down arrows will scroll through the error codes.

Error index number 1 is the most recent error.

NOTE all heaters will have errors in there history, as this is part of the functional testing during manufacture.

Test Mode

To enter Test Mode press the Down Arrow and mode buttons simultaneously until the display changes.



Pressing the UP arrow will cause the fan to run at maximum speed.

Pressing the DOWN arrow will cause the fan to run at minimum speed.

Pressing the RESET button will exit test mode to standby.

Test mode will override all external and internal controls except the high temperature limit.

The maximum fan speed for all models is 4620 this will give the HE30C DHW gas input on both the HE25S and HE25H.