## Glow Worm cxi, hxi & sxi PCB - Voltages

BUS VOLTAGES

Loc Pwr On Burner On

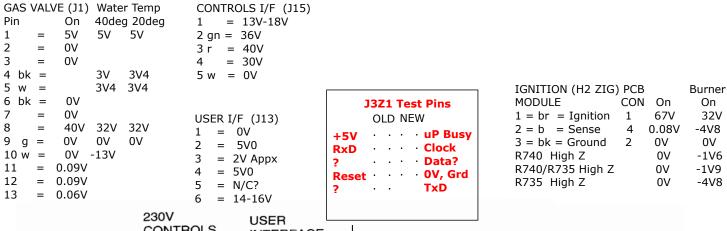
ST804 40V 32V

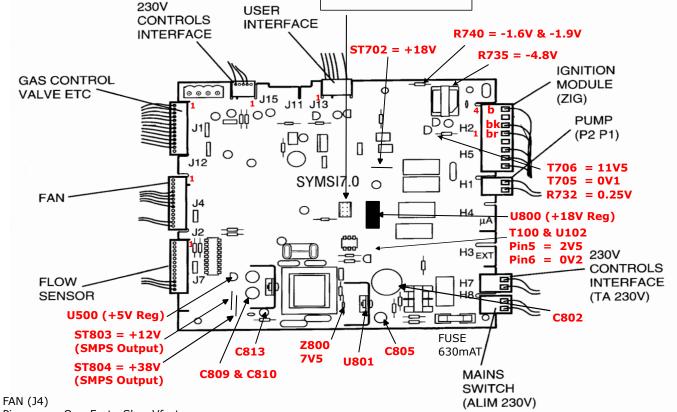
ST702 18V 18V

ST803 12V 10V

J3ZI P1 5V 5V

The 12V and 40V supplies are from separate secondary windings. This is NOT a regulated SMPS. +5V is derived from the 12V rail. +18V is derived from the 40V rail. All supplies share the common Gnd or 0V, connection P8 on J3Z1. Mains input to PCB from switch is H8, bottom right corner, marked ALIM 230V in this diagram.





Pin On Fast Slow Vfast 1 ٥v 0V 3 ٥v = 4 b 0V 5 4V5 У 1V0 2V4 8V0 6 W 2V6 6V1 6V7 6V8 7 0V 8 r 40V 30V 30V 31V 9 g 0V 10 w ٥v 11V5 11V5 11 5V0 5V0 12 =

0V

13

U102 provides mains voltage info to uP to indicate low supply voltage. Touching U102 P6 with multimeter usually makes the burner (uP) hiccup!

Note: C809 & C810 are 35V working as supplied. Boiler on but no heat then supply is around 40V!

F4 Ignition Fault (Boiler went out when lit)
F5 Overheat Fault
F6 Central Heating Flow Thermistor Fault
F10 Central Heating Return Thermistor Fault
F11 Main Board Connection Fault

F12 User Interface Connection Fault F13 Main PCB Fault

F1 Ignition Fault (Boiler failed to light)

F14 Central Heating Flow Temp Too High

F16 Gas Valve Fault
F17 Power Supply Less Than 170V
F18 User Interface Fault

F19 CH Thermistor Unplugged F20 Software Incompatibility F24 CH Return Temp Too High

F25 Max Temp Rise Slope to High F26 Max Delta Temp Too Low

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