

FAULT FINDING

Fault	Possible Cause	Remedy
1. Combustion air fan does not start	<ul style="list-style-type: none"> a) No air pressure in duct (positive or negative) b) Combustion air switch set too low c) Duct air switch set too high d) If low gas pressure switch fitted, gas pressure too low or switch set too high e) If high gas pressure switch fitted, gas pressure too high or switch set too low 	<ul style="list-style-type: none"> a) Switch on main duct fan b) Reset switch c) Reset Switch d) Adjust gas pressure or reset switch e) Decrease gas pressure or reset switch
2. Combustion air fan starts, but burner goes to Lockout	<ul style="list-style-type: none"> a) Combustion air switch set too high b) Incorrect fan rotation c) Fan blades dirty 	<ul style="list-style-type: none"> a) Reset switch b) Correct c) Clean fan
3. No spark. Burner goes to lockout.	<ul style="list-style-type: none"> a) High tension lead not properly tightened at terminations b) Spark plugs not properly adjusted c) Transformer failed 	<ul style="list-style-type: none"> a) Tighten lead ends b) Adjust as necessary c) Change transformer
4. Pilot does not light	<ul style="list-style-type: none"> a) No gas b) Too much gas c) Pilot valve not opened 	<ul style="list-style-type: none"> a) Find cause and rectify b) Adjust gas pilot cock c) Change valve or find open circuit
5. Pilot lights but burner goes to 'lockout'	Flame not detected because: <ul style="list-style-type: none"> a) UV cell not looking at flame b) UV cell faulty c) Flame probe not in flame d) Bad earth 	<ul style="list-style-type: none"> a) Re-align cell b) Check output. Change cell c) Rectify d) Check output of probe. Make good earth connection

FAULT FINDING (cont...)

Fault	Possible Cause	Remedy
6. Pilot alight, no main flame, burner goes to lockout	a) Main valves not opening	a) Check main valves
7. Main flame goes out after lighting	a) Low gas pressure switch (if fitted) set too high b) High gas pressure switch (if fitted) set too low c) Pilot too high d) Flame not detected	a) Reset pressure switch b) Reset pressure switch c) Re-adjust pilot d) Adjust flame detector to see main flame
8. Main flame goes out on reaching high fire	See "Main flame goes out after lighting"	See "Main flame goes out after lighting"
9. Flame goes out. No lockout.	a) High or low gas pressure switch (if fitted) faulty b) Duct pressure switch faulty c) Loss of duct air pressure d) Interlock operated	a) Rectify switch b) Rectify switch. c) Check main duct fan d) Re-make interlock
10. Flame goes out. Burner goes to lockout.	a) Loss of gas b) Loss of combustion air c) Failure of flame detector	a) Turn off gas and investigate b) Check combustion air fan c) Change detector
11. Burner goes to lockout when it is turned off	a) Main gas valves not shutting completely	a) Check main valves at once. Turn gas off at ball valves.
12. Heat output not maintained	a) Gas pressure failing b) Burner faces need cleaning	a) Investigate b) Clean burner (see under 'Maintenance')