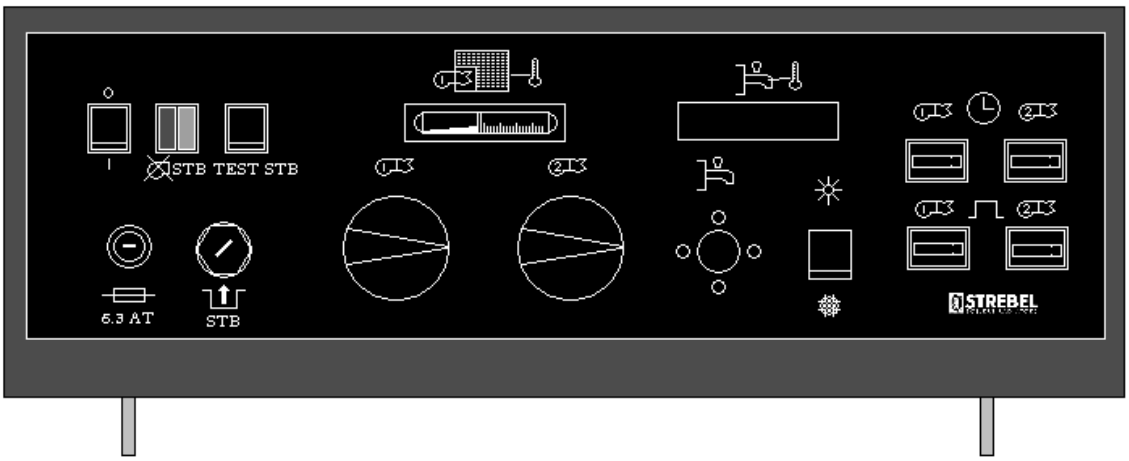
K2B & B2B

INSTRUMENT CONTROL PANELS



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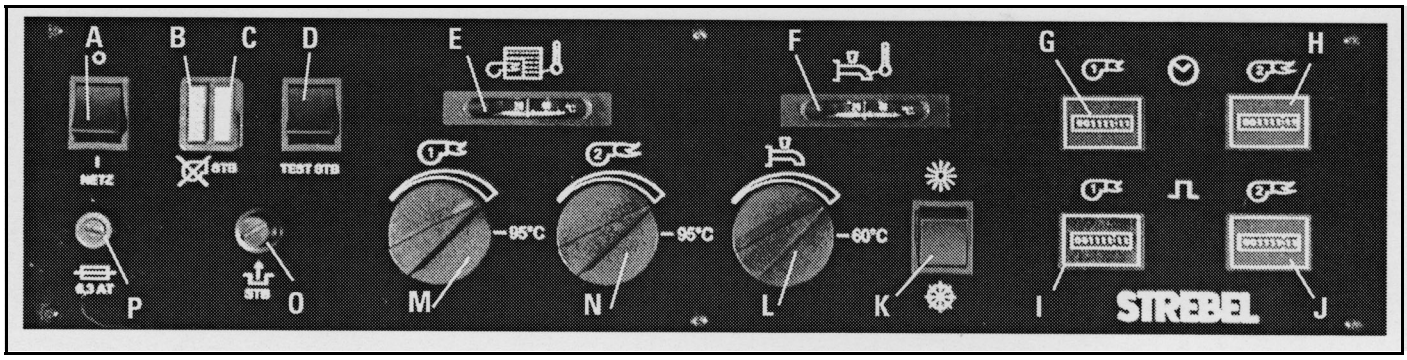
Instrument Control Panel Description



Key:

A. Power On / Off switch.

B. Burner lock-out indicator. (RED) - The red lamp will illuminate if the burner has gone to lock-out.

C. High limit indicator. (ORANGE) - Illuminates if the high limit thermostat is activated. Has to be manually reset by removing cap from STB reset, and press button.

D. High Limit Test Switch. (STB) - Overrides the control thermostat to enable limit thermostat test.

E. Boiler Thermometer– Shows the actual boiler water temperature and has no influence on boiler temperature control.

F. HWS Thermometer - Shows temperature of the HWS calorifier. (B2B version only)

G. Hours Run Meter (blanked as standard) Burner Stage 1 - Shows running time of the stage 1 burner operation.

H. Hours Run Meter (blanked as standard) Burner Stage 2 - Shows running time of the stage 2 burner operation.

I. Frequency of Switching Meter for Stage 1. (blanked as standard).

J. Frequency of Switching Meter for Stage 2. (blanked as standard).

K. Summer / Winter Switch - For switching boiler between modes to supply HWS only in the summer period.

L. Calorifier Control Thermostat - Set for the required hot water temperature (60ºC Max.)

M. Control Thermostat - Stage 1.

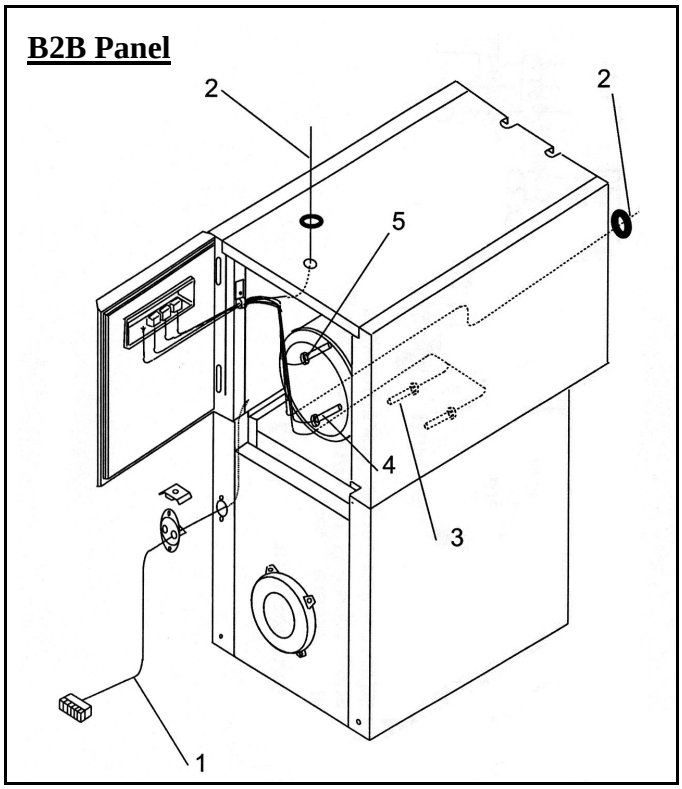
N. Control Thermostat - Stage 2.

O. Boiler Safety Limit Thermostat (STB) - Manual reset. Used when the boiler water temperature overheats. The water in the boiler must cool to around 80ºC, to enable reset. (refer to point “C” above).

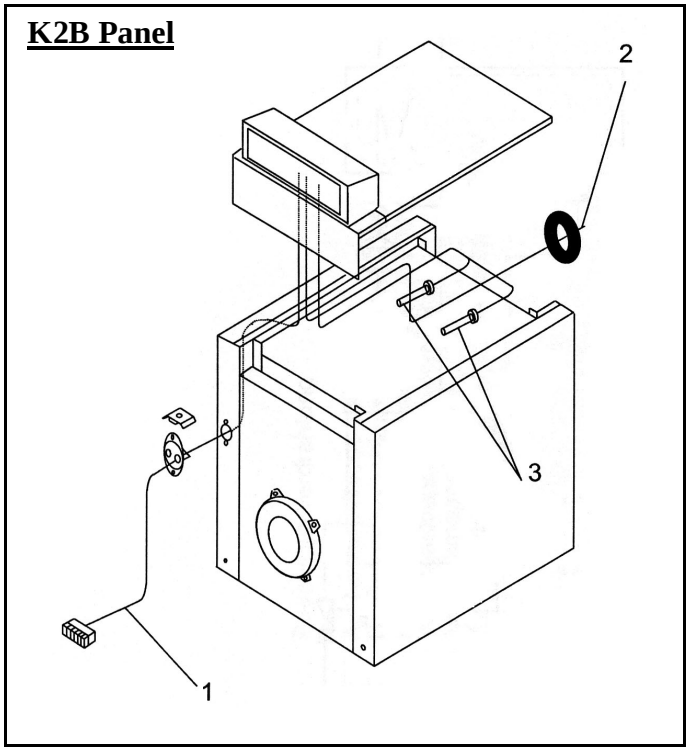
P. Fuse (6.3A) - Protection for all the controls and any ancillary equipment connected back to the control panel. A defective fuse MUST be replaced with an identical one.

ATTENTION: Before a fuse is replaced, the instrument control panel must be isolated.

B2B Panel



K2B Panel



The diagrams opposite shows connections to the instrument control panel.

Key:

1. Burner Cables
2. Power Supply Connection.
3. Stage 1 & Stage 2 Thermostat Sensor & boiler Thermometer Sensor Pockets.
4. Calorifier Thermostat Sensor Pocket.
5. Calorifier Thermometer Sensor Pocket.

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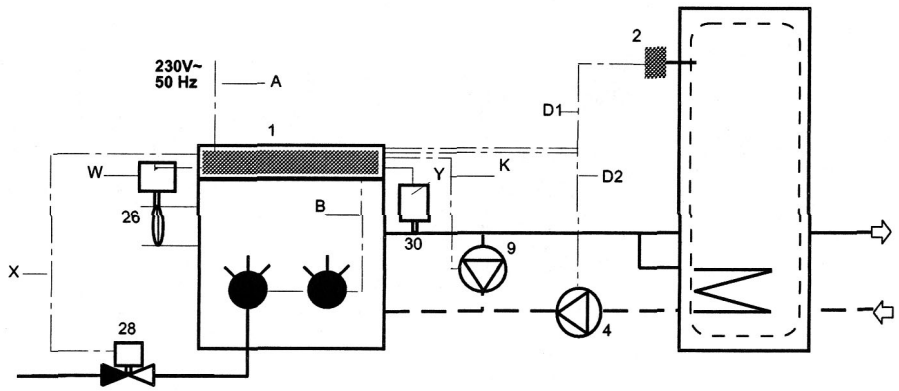
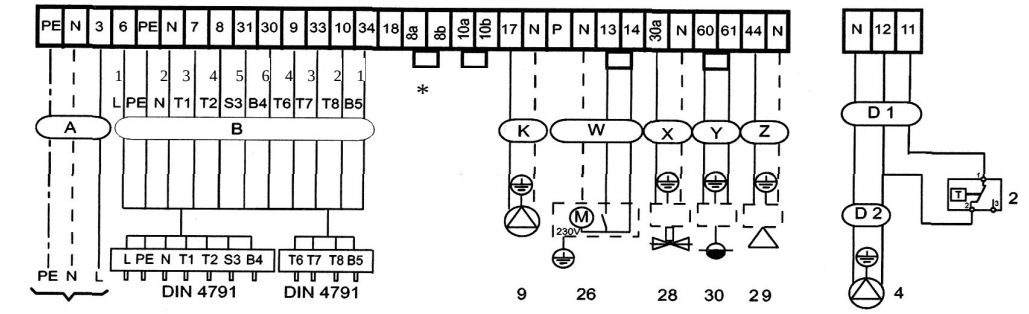
K2B Connections



K2B Electrical Connections



Legend

1. Instrument Control Panel.
2. Separate Calorifier Control.
4. Separate Calorifier Circulating Pump.
9. Boiler Shunt Pump.
26. Flue Gas Damper.
28. Safety Solenoid Valve.
29. High Limit Thermostat.
30. Calorifier Control Thermostat.

DIN 4791 - Weiland Connector (7-way for stage 1 burner operation).

DIN 4791 - Additional Weiland Connector. (4-way for use with Hi/Low Burners).

A. Power Supply 230V / 50Hz
B. Burner Connections. (Plug and Socket Looms).
K. Boiler Circulating Pump Interlock.
W. Flue Gas Damper Interlock.
X. Safety Solenoid Valve Interlock.
Y. Calorifier Thermostat Interlock.
Z. Provision for Remote High Temperature Limit Indication.
D1. Calorifier Instrument Control Panel Connection.
D2. Calorifier Circulating Pump Connection.

* Provision for Remote Switching of Burner. (terminals 8a & 8b).

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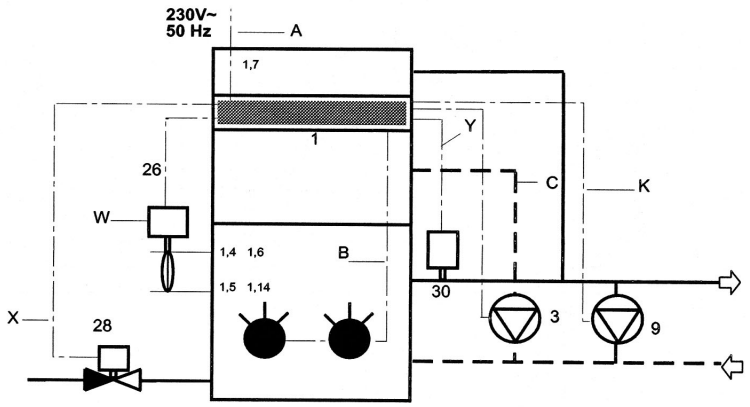
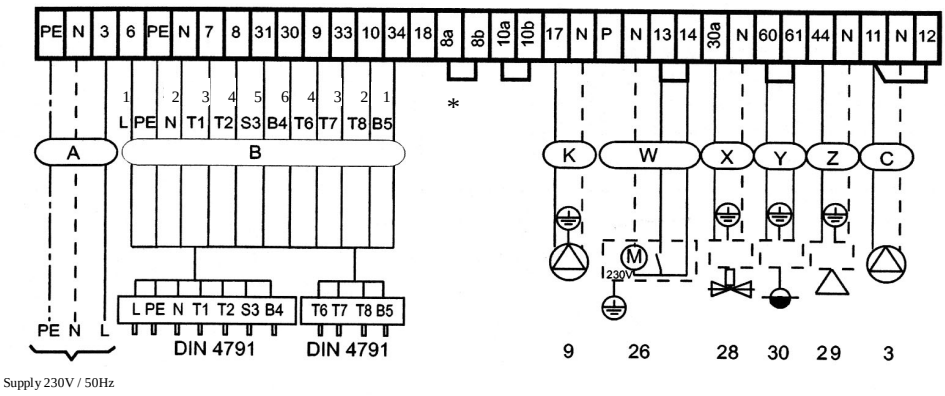
B2B Instrument Control Panel Connections



B2B Electrical Connections



Legend

1. Instrument Control Panel.
3. Calorifier Circulating Pump.
9. Boiler Shunt Pump (where applicable)
26. Flue Gas Damper. (where applicable)
28. Safety Solenoid Valve. (where applicable)
29. High Limit Indication.
30. Calorifier Control Thermostat.

DIN 4791 - Weiland Connector. (7-way for stage 1 burner operation).

DIN 4791 - Additional Weiland Connector . (4-way for use with Hi/Low Burners).

A. Power Supply 230V / 50Hz
B. Burner Connections. (Plug and Socket Looms).
C. Calorifier Primary Circulating Pump.
K. Boiler Circulating Pump Interlock.
W. Flue Gas Damper Interlock.
X. Safety Solenoid Valve Interlock.
Y. Calorifier Thermostat Interlock.
Z. Provision for Remote High Temperature Limit Indication.

* Provision for Remote Switching of Burner. (terminals 8a & 8b).

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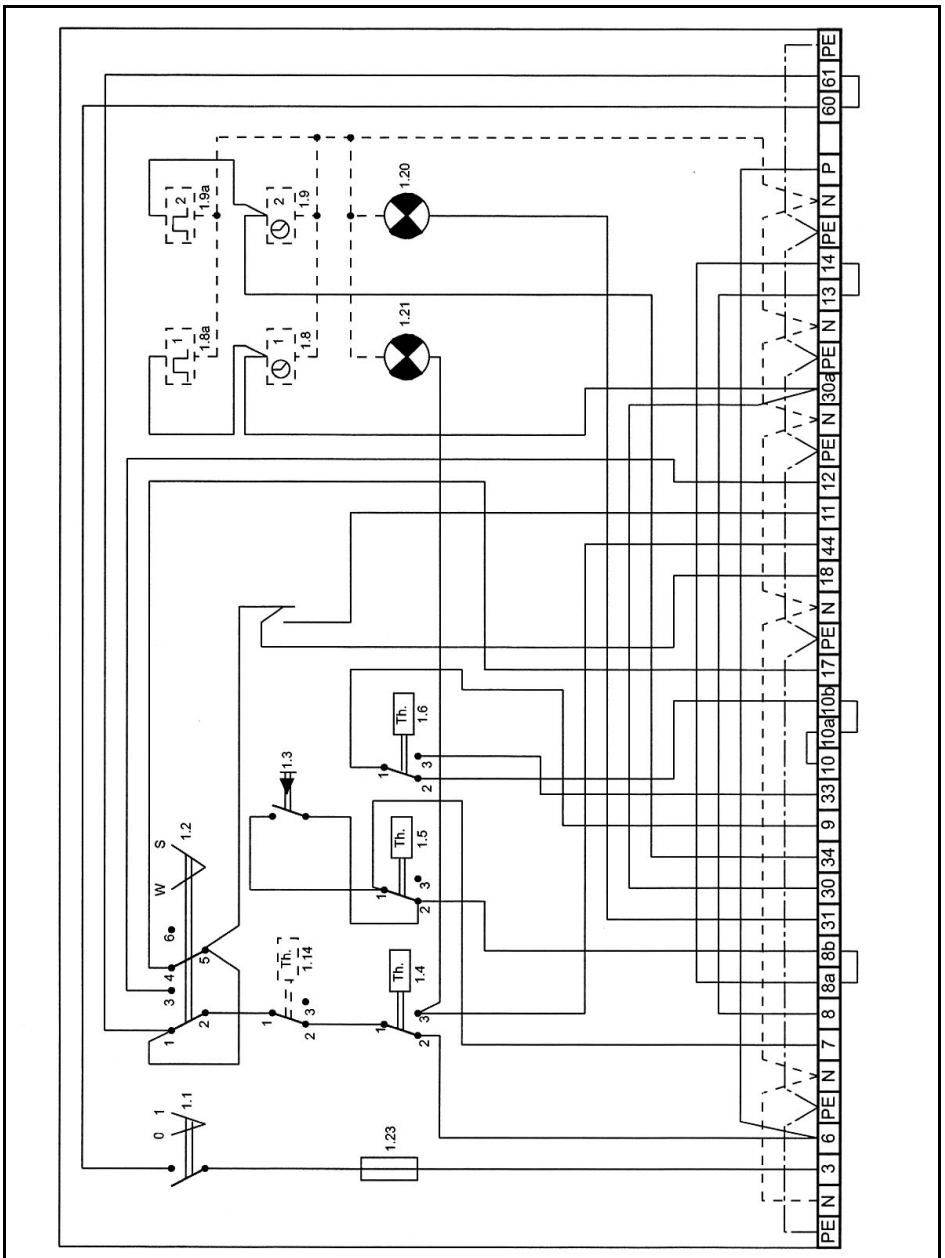
K2B Instrument Control Panel - Internal Wiring Diagram



Legend:

1.1 Power Switch ON/OFF.
1.2 Summer / Winter Switch.
1.3 High Limit STB Test Switch.
1.4 Boiler Limit Thermostat.
1.5 Boiler Thermostat Stage 1.
1.6 Boiler Thermostat Stage 2.
1.8 Hours Run Meter Stage 1.
1.8a Frequency of Switching Stage 1 (optional).
1.9 Hours Run Meter Stage 2.
1.9a Frequency of Switching Stage 2 (optional).
1.14 Boiler Limit Thermostat (for operation at 110ºC (optional extra).
1.20 Burner Lock-out Lamp
1.21 High Limit Lamp.
1.23 Fuse 6.3A.

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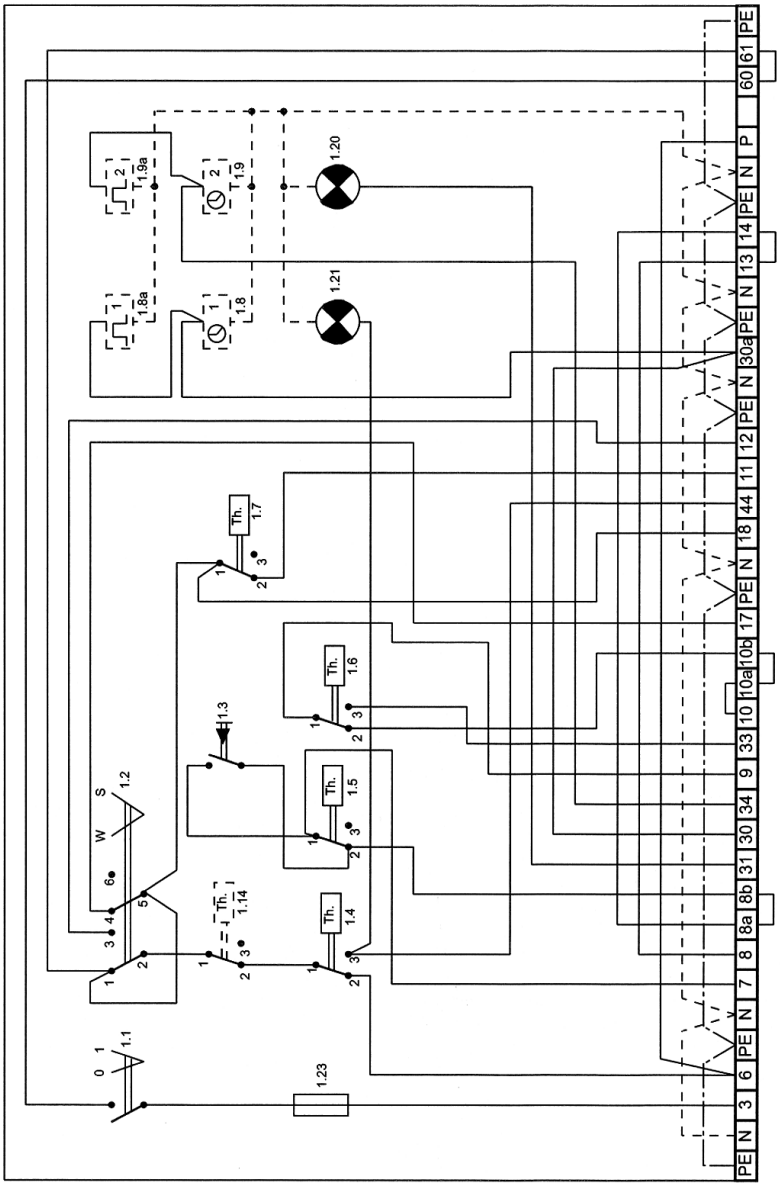
B2B Instrument Control Panel - Internal Wiring Diagram



Legend:

1.1 Power Switch ON/OFF.
1.2 Summer / Winter Switch.
1.3 High Limit STB Test Switch.
1.4 Boiler Limit Thermostat.
1.5 Boiler Thermostat Stage 1.
1.6 Boiler Thermostat Stage 2.
1.7 Calorifier Thermostat.
1.8 Hours Run Meter Stage 1.
1.8a Frequency of Switching Stage 1 (optional).
1.9 Hours Run Meter Stage 2.
1.9a Frequency of Switching Stage 2 (optional).
1.14 Boiler Limit Thermostat (for operation at 110ºC (optional extra).
1.20 Burner Lock-out Lamp
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