ideal HEATING

SINGLE ADDITIONAL HEAT ZONE KIT INSTRUCTIONS

IMAX XTRA 2
80 120 160 200 240 280
80P 120P 160P 200P 240P

When replacing any part on this appliance, use only spare parts that you can be assured conform to the safety and performance specification that we require. Do not use reconditioned or copy parts that have not been clearly authorised by Ideal Heating.

For the very latest copy of literature for specification and maintenance practices visit our website idealheating.com where you can download the relevant information in PDF format.

April 2021
UIN 226209 A02

CONTENTS

1.1 INTRODUCTION

The following document provides instructions on how to install the Imax Xtra 2 **Single Additional Heat Zone Kit.**

1.2 SINGLE ADDITIONAL HEAT ZONE KIT PARTS

The kits consist of the following parts:

1. AGU2.550 - Shown in Fig1.
2. Single Circuit Harness - Shown in Fig 2.
3. Single Circuit Connections Kit - Shown in Fig.3.
4. Extra Modules Harness - Shown in Fig.4.

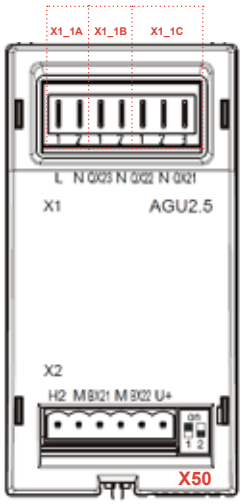

Fig. 1

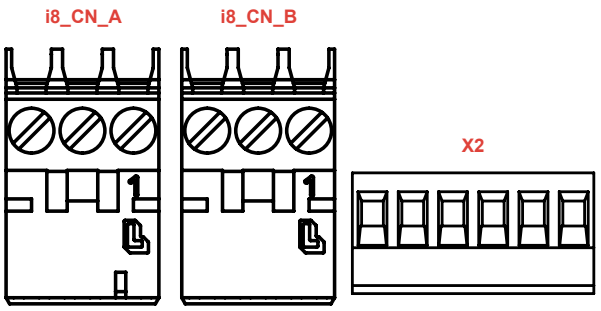

Fig. 3

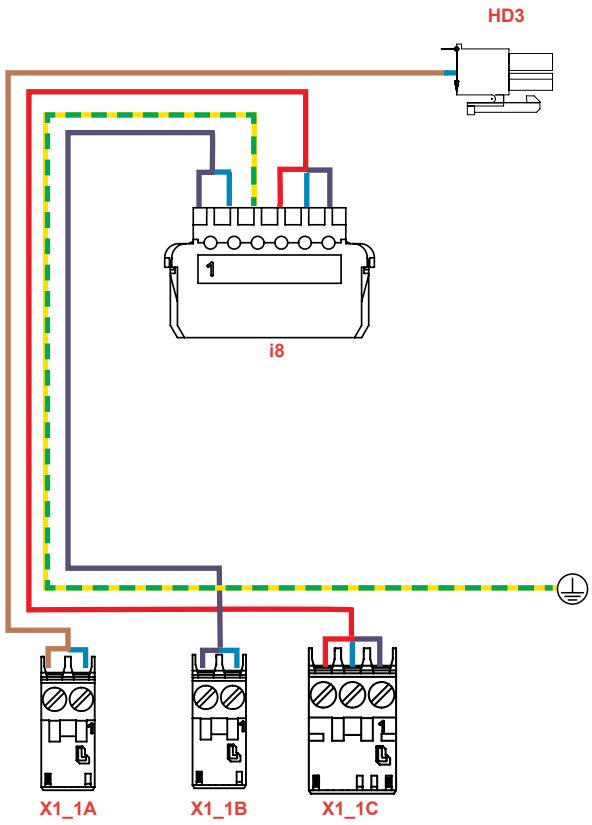

Fig. 2

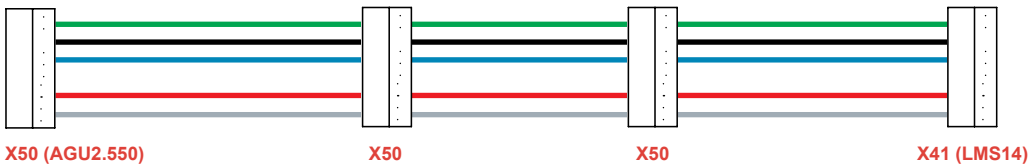

Fig. 4

1.3 FITTING THE AGU2.550

Switch off and isolate the electricity supply to the boiler and any external controls.

Refer to the boiler installation instructions for how to access the boiler electrical connections.

Fit the AGU2.550 utilising the existing cut-outs in the main control board as shown in Fig 5.

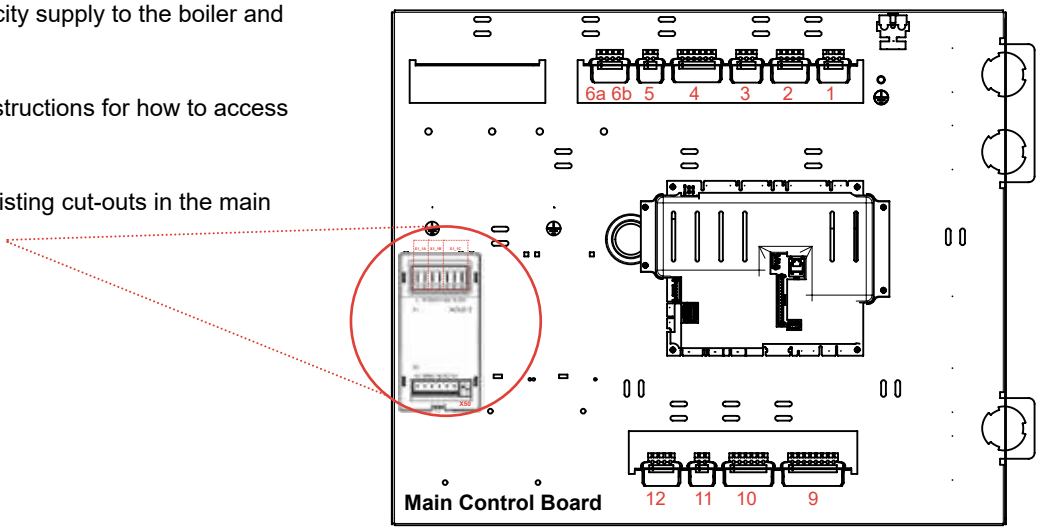

Fig. 5

1.4 CONNECTING THE EXTRA MODULES HARNESS

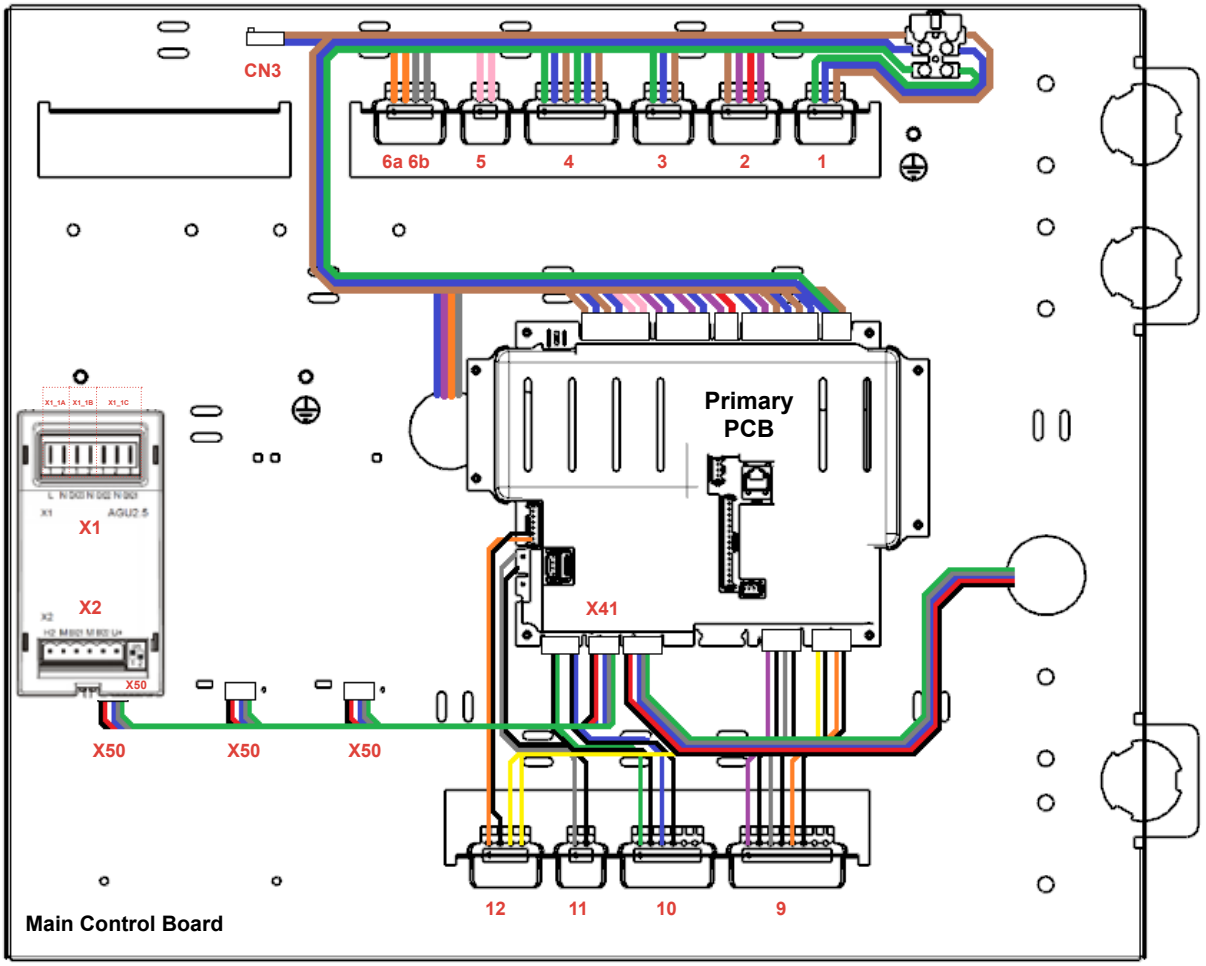

Fig. 6

Connect the Extra Modules Harness between X50 of the AGU2.550 and X41 of the LMS 14 mini primary control board, as shown in Fig 6.

Please note, if there is already an Extra Modules Harness fitted, use one of the spare connectors to connect to X50 of the AGU2.550.

1.5 FITTING THE SINGLE CIRCUIT HARNESS

Fit the Single Circuit Harness to the control panel, as shown in Fig 7, following the instructions below:

1. Insert Installation Connector I8 of the Single Circuit Harness into its corresponding cut-out position on the control panel. This is the first cut-out, from the left, located on the folded metal flap in the top left of the control panel.
2. Run the cable bundle down the left inside edge of the control panel, and use the cut-outs located there to secure it in place using cable ties.
3. Insert Connector X1_1A of the Single Circuit Harness into X1 of the AGU2.550. The connector MUST be placed into the left most position of X1.
4. Insert Connector X1_1B of the Single Circuit Harness into X1 of the AGU2.550. The connector MUST be placed into the position immediately to the right of X1_1A.
5. Insert Connector X1_1C of the Single Circuit Harness into X1 of the AGU2.550. The connector MUST be placed into the position immediately to the right of X1_1B.
6. Finally, connector HD3 of the Single Circuit Harness to its mating connector CN3, located on the standard boiler harness.

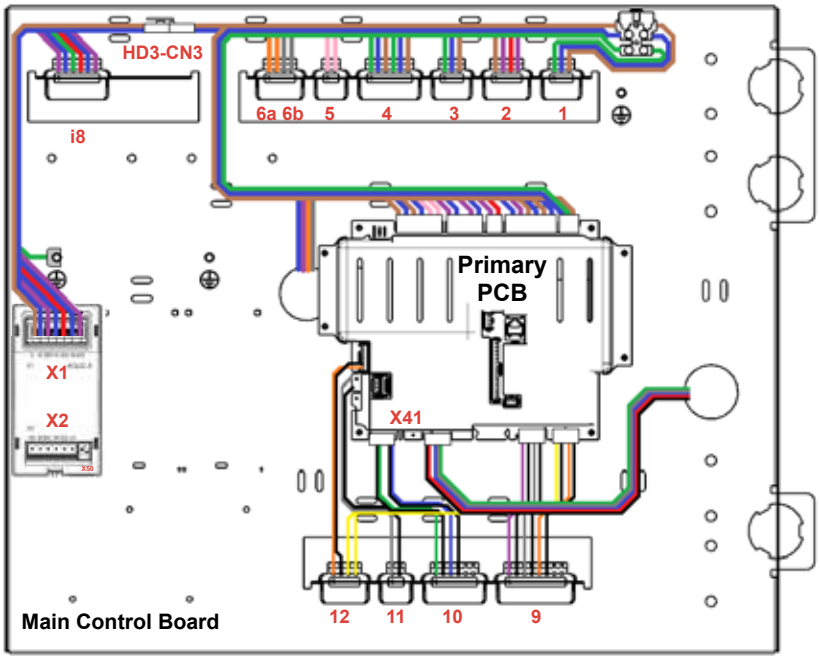

Fig. 7

1.6 CONNECTING THE HEAT CIRCUIT 2 FLOW SENSOR

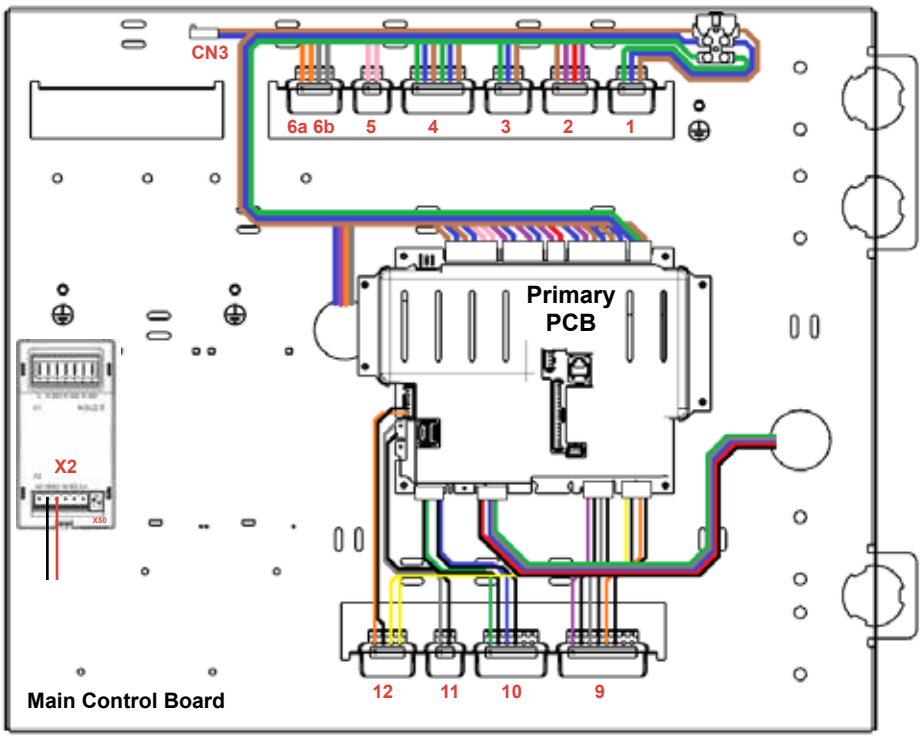

Fig. 8

If variable temperature control of the additional single heating zone is required then connect a flow sensor, either UIN 225453 (Strap-on sensor) or (Immersion sensor).

The sensor should be connected to pins 2 and 3 of the X2 connector which is part of the Single circuit connections kit. Install the X2 connector into AUG2.550, as shown in Fig 8.

Wiring external to the appliance MUST be in accordance with the current I.E.T. (BS7671) wiring regulations and any local regulations which apply.

For Ireland reference should be made to the current ETCI rules for electrical installations. Wiring should be 3 core PVC insulated cable NOT LESS than 0.75mm^2.

Refer to the boiler manual for cable routing into the boiler. Secure the cables with existing cable retention clamps or cable tie slots that are on the boiler main control panel. Ensure that isolation is maintained relative to low voltage wiring.

Configuration of the mixing valves to the boiler occurs during the configuration commissioning process.

1.7 CONNECTING HEATING CIRCUIT 2 PUMP

Connect the heating circuit 2 pump wiring to connector I8_CN_A as follows. This connector is part of the Single circuit connections kit:

1. Connect the Pump Live wire to pin 1 of connector I8_CN_A.
2. Connect the Pump Neutral wire to pin 2 of connector I8_CN_A.
3. Connect the Pump Earth wire to pin 3 of connector I8_CN_A.

These connections are shown in Fig 9.

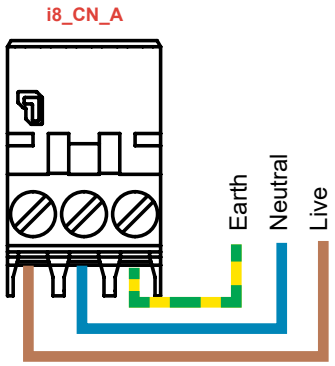

Fig. 9

Insert connector I8_CN_A into Installer connector I8, as shown in figure 10.

Wiring external to the appliance MUST be in accordance with the current I.E.T. (BS7671) wiring regulations and any local regulations which apply. For Ireland reference should be made to the current ETCI rules for electrical installations. Wiring should be 3 core PVC insulated cable NOT LESS than 0.75mm^2.

Refer to the boiler manual for cable routing into the boiler. Secure the cables with existing cable retention clamps or cable tie slots that are on the boiler main control panel. Ensure that isolation is maintained relative to low voltage wiring.

Configuration of the mixing valves to the boiler occurs during the configuration process described in the boiler manual.

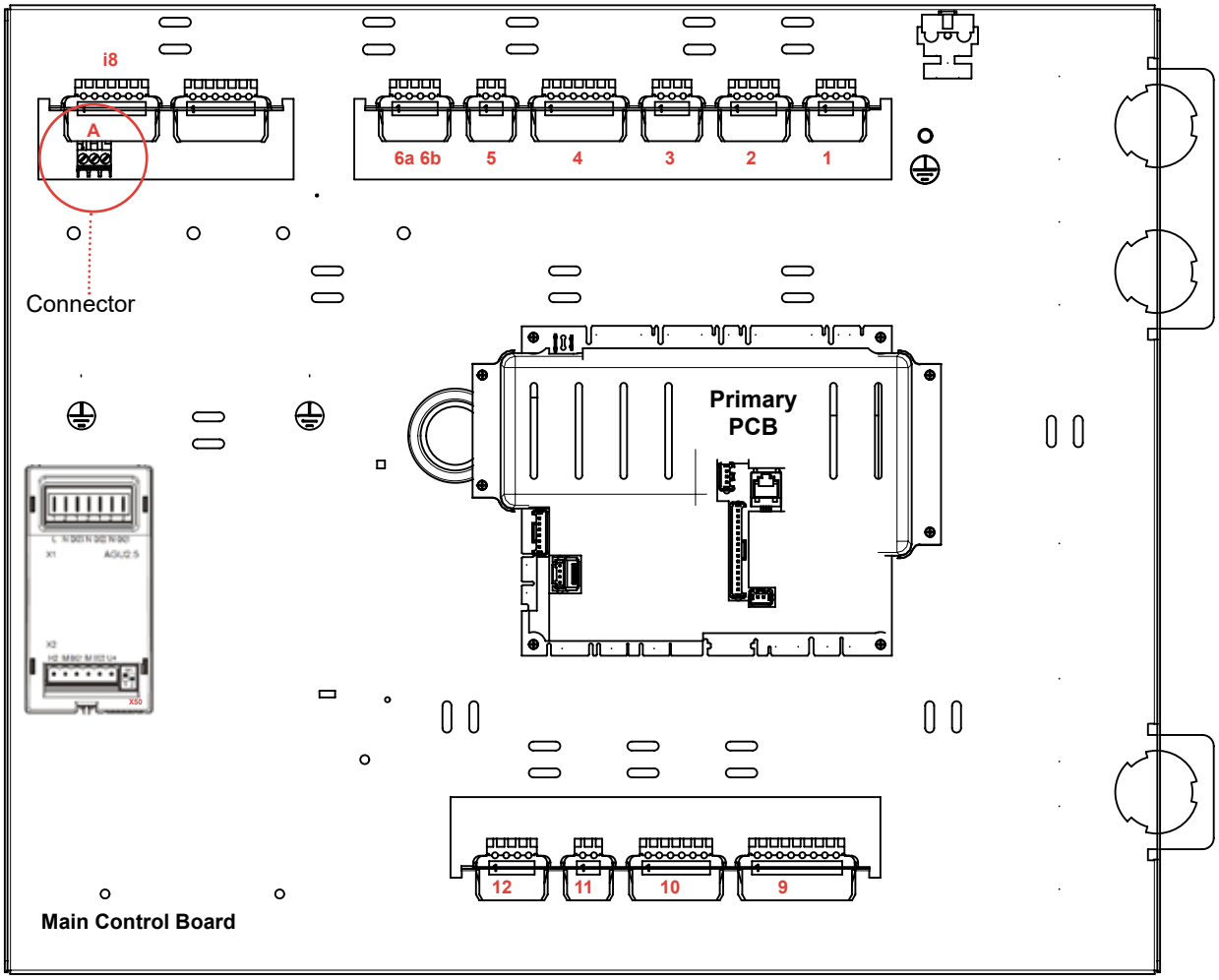

Fig. 10

1.8 CONNECTING HEATING CIRCUIT 2 MIXING VALVE

In the case of a variable temperature heating circuit there is a connection available to control a mixing valve. Connect the heating circuit 2 mixing valve wiring to connector I8_CN_B as follows. This connector is part of the Single circuit connections kit:

1. Connect the Mix Valve Normally Closed Live wire to pin 1 of connector I8_CN_B.
2. Connect the Mix Valve Neutral wire to pin 2 of connector I8_CN_B.
3. Connect the Mix Valve Normally Open Live wire to pin 3 of connector I8_CN_B.

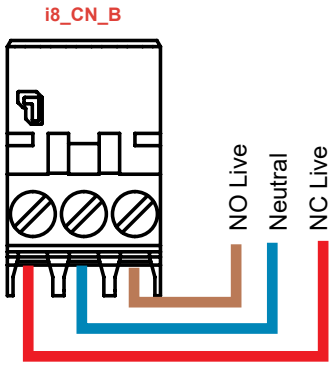

Fig. 11

These connections are shown in Fig 11.

Insert connector I8_CN_B into Installer connector I8, as shown in Fig 12.

Wiring external to the appliance MUST be in accordance with the current I.E.T. (BS7671) wiring regulations and any local regulations which apply. For Ireland reference should be made to the current ETCI rules for electrical installations. Wiring should be 3 core PVC insulated cable NOT LESS than 0.75mm^2.

Refer to the boiler manual for cable routing into the boiler. Secure the cables with existing cable retention clamps or cable tie slots that are on the boiler main control panel.

Ensure that isolation is maintained relative to low voltage wiring.

Configuration of the mixing valves to the boiler occurs during the commissioning configuration.

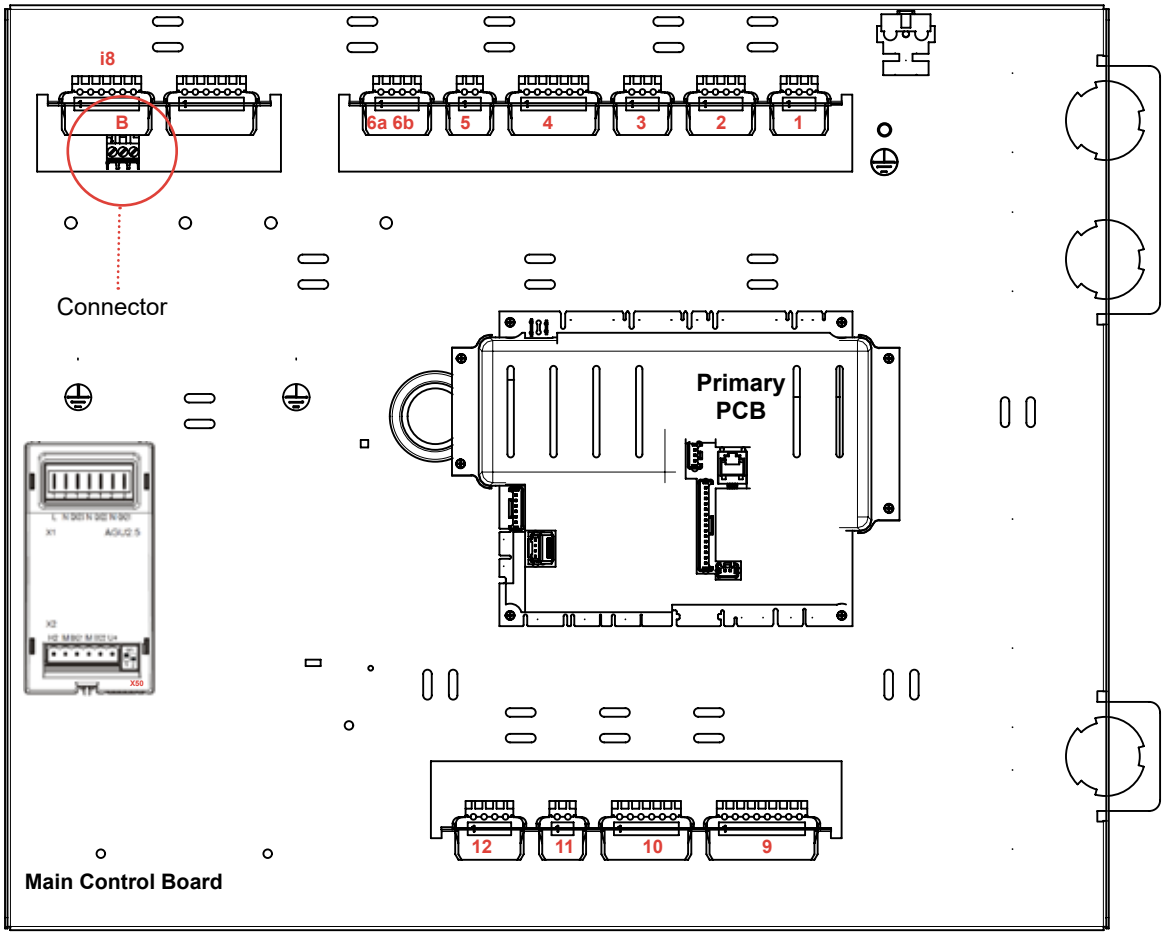

Fig. 12

1.9 HEATING CIRCUIT 2 HARDWARE SETUP

To use AGU2.550 as Heating circuit 2, the user must ensure that the DIP switch settings of the AGU2.550 are set accordingly.

The location of the DIP switches is shown in Fig 13. Switch 1 needs to be in the 'On' position and switch 2 needs to be in the 'Off' position.

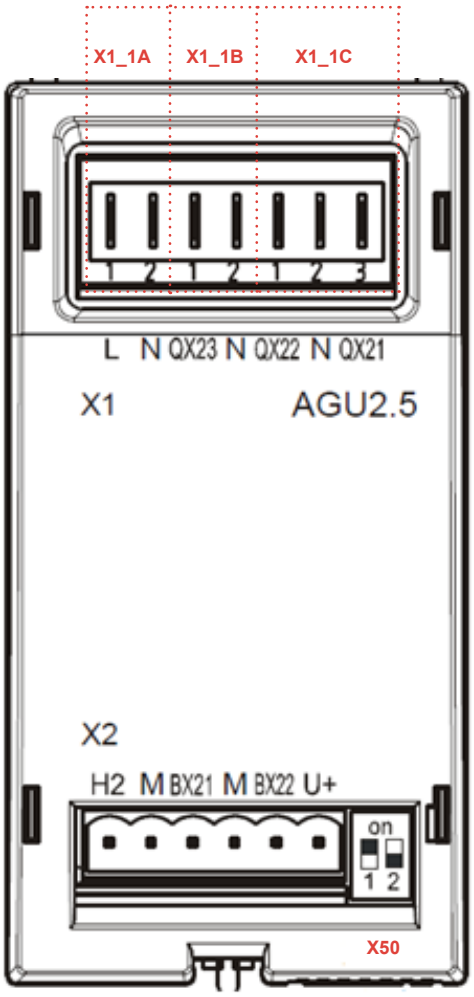

Fig. 13

WEEE DIRECTIVE 2012/19/EC
Waste Electrical and Electronic Equipment Directive

- At the end of the product life, dispose of the packaging and product in a corresponding recycle centre.
- Do not dispose of the unit with the usual domestic refuse.
- Do not burn the product
- Remove the batteries
- Dispose of the batteries according to the local statutory requirements and not with the usual domestic refuse.

CE

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