



DUAL 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.



INSTRUCTIONS

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1.1 INTRODUCTION

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

1.2 DUAL ADDITIONAL HEAT ZONE KIT PARTS

The kits consist of the following parts:

1. 2x AGU2.550 - Shown in Fig 1.
2. Dual Circuit Harness - Shown in Fig 2.
3. Dual Circuit Connections kit - Shown in Fig 3.
4. Extra Modules Harness - Shown in Fig 4.

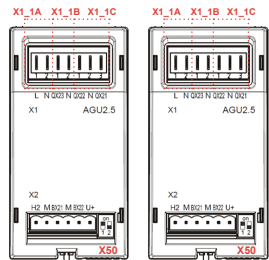


Fig. 1

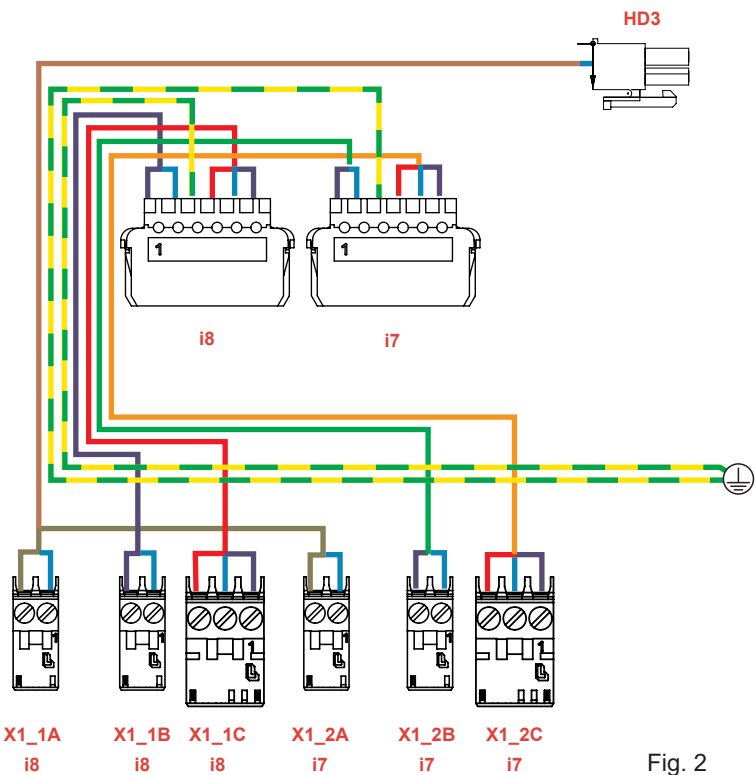


Fig. 2

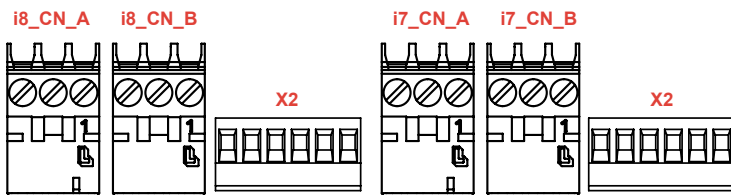


Fig. 3



Fig. 4

INSTRUCTIONS

1.3 FITTING THE AGU2.550s

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

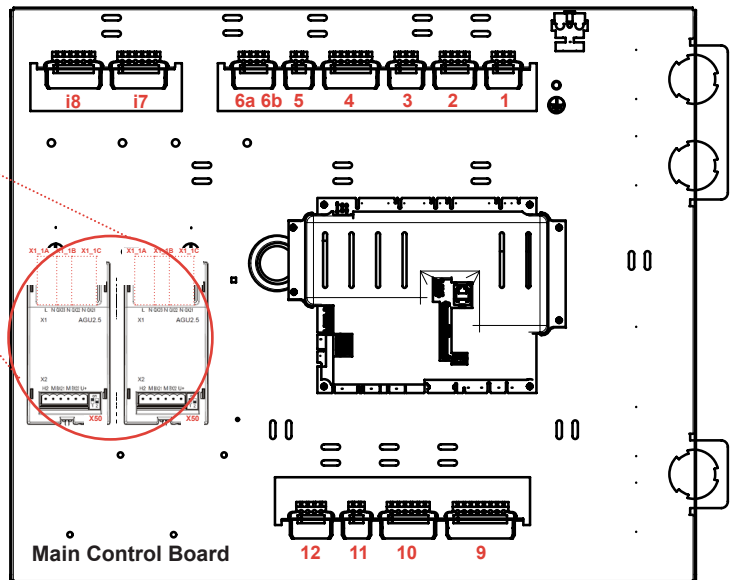
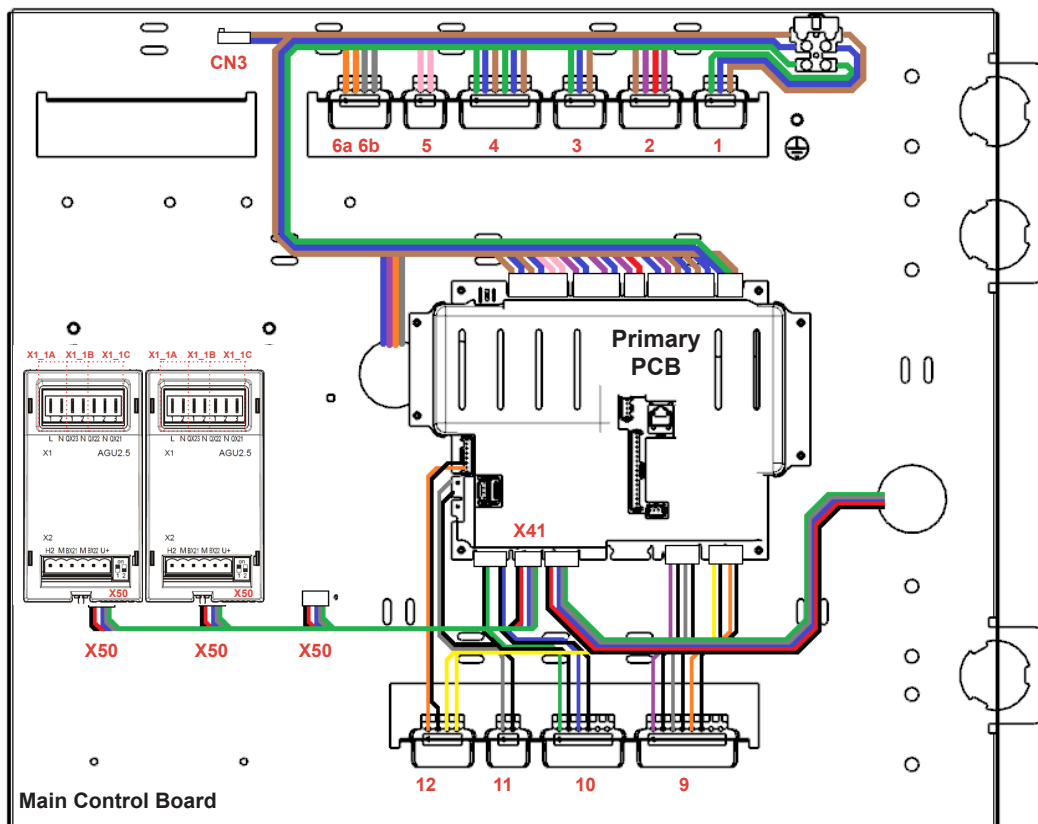


Fig. 5

1.4 CONNECTING THE EXTRA MODULES HARNESS



Connect the Extra Modules Harness between X50 of the first AGU2.550, X50 of the second 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 the spare connectors to connect to X50 of each of the AGU2.550s.

Fig. 6

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1.5 FITTING THE DUAL CIRCUIT HARNESS

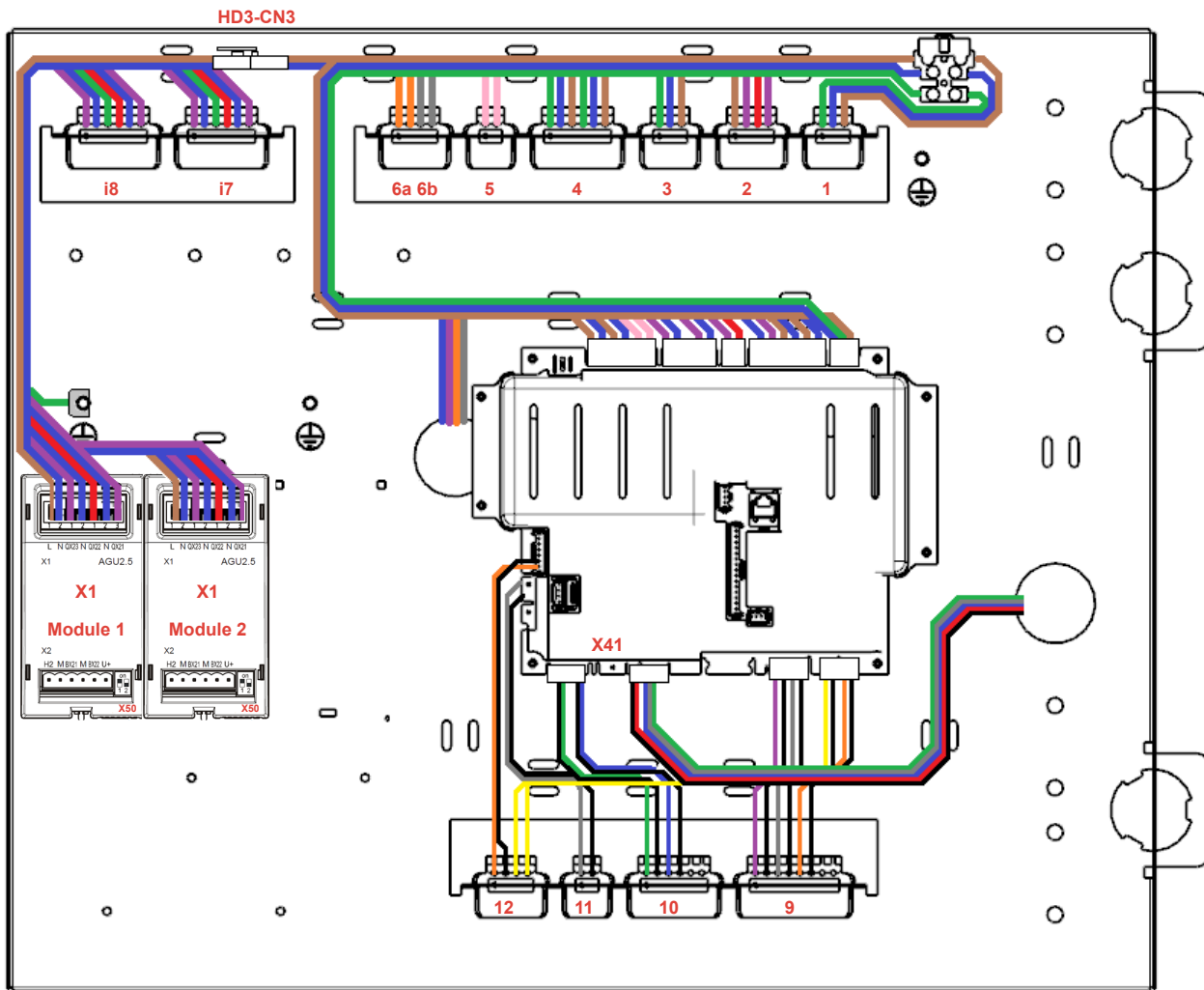


Fig. 7

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

1. Insert Installation Connector I8 of the Dual 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. Insert Installation Connector I7 of the Dual Circuit Harness into its corresponding cut-out position on the control panel. This is the second cut-out, from the left, located on the folded metal flap in the top left of the control panel, and can be found to the right of the I8 cut-out.
3. 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.
4. Insert Connector X1_1A of the Dual Circuit Harness into X1 of AGU2.550 module 1. This is the AGU2.550 module located on the left. The connector MUST be placed into the left most position of X1.
5. Insert Connector X1_1B of the Dual Circuit Harness into X1 of AGU2.550 module 1. The connector MUST be placed into the position immediately to the right of X1_1A.
6. Insert Connector X1_1C of the Dual Circuit Harness into X1 of AGU2.550 module 1. The connector MUST be placed into the position immediately to the right of X1_1B.
7. Insert Connector X1_2A of the Dual Circuit Harness into X1 of AGU2.550 module 2. This is the AGU2.550 module located on the right. The connector MUST be placed into the left most position of X1.
8. Insert Connector X1_2B of the Dual Circuit Harness into X1 of AGU2.550 module 2. The connector MUST be placed into the position immediately to the right of X1_2A.
9. Insert Connector X1_2C of the Dual Circuit Harness into X1 of AGU2.550 module 2. The connector MUST be placed into the position immediately to the right of X1_2B.
10. Finally, connector HD3 of the Dual Circuit Harness to its mating connector CN3, located on the standard boiler harness.

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1.6 CONNECTING THE HEAT CIRCUIT 2 AND 3 FLOW SENSORS

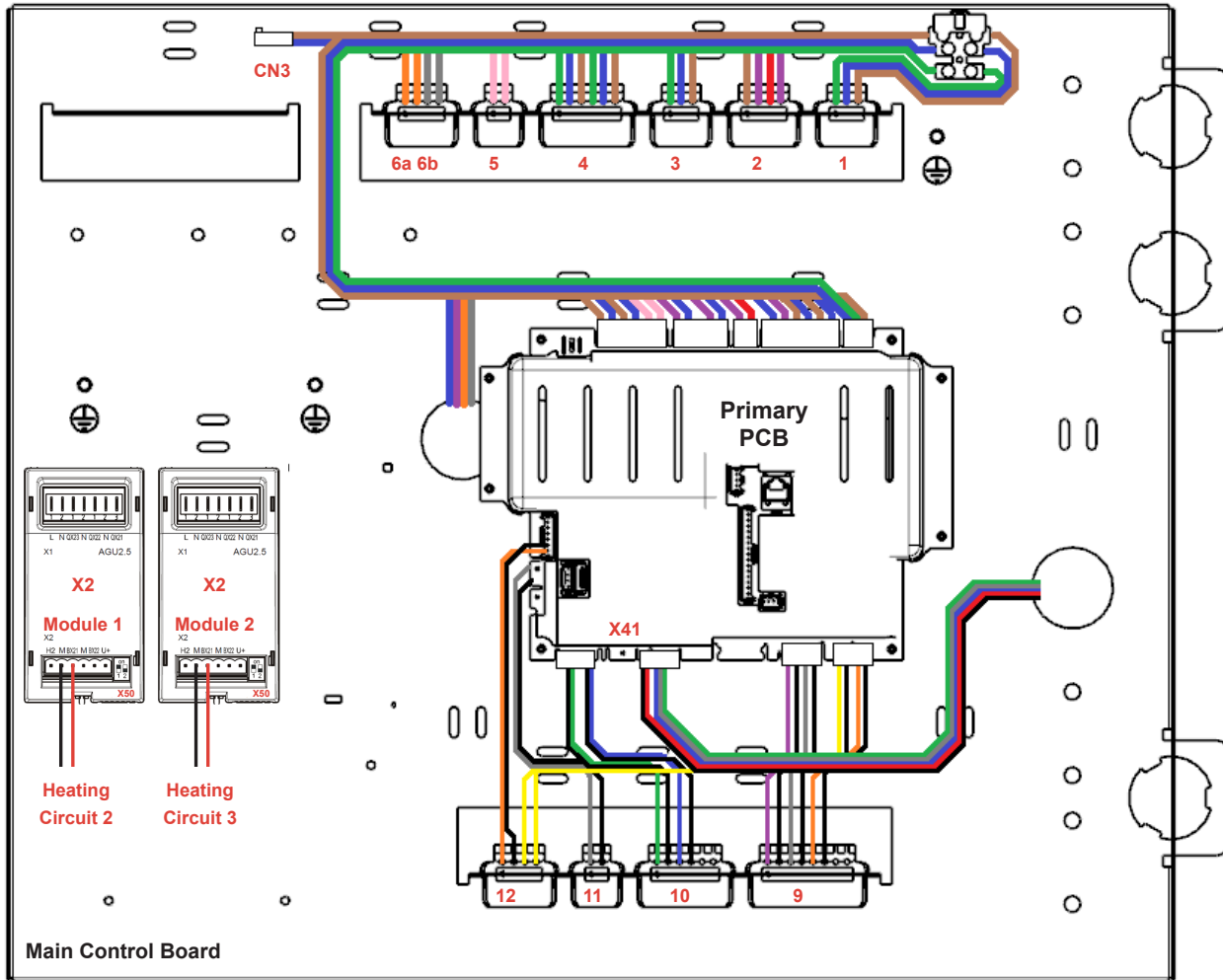


Fig. 8

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

The Heat circuit 2 flow sensor should be connected to pins 2 and 3 of an X2 connector which is part of the Dual circuit connections kit. Install the X2 connector into the first AUG2.550.

The Heat circuit 3 flow sensor should also be connected to pins 2 and 3 of an X2 connector and this should be installed in the second 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 0.75mm².

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.

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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 Dual 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.

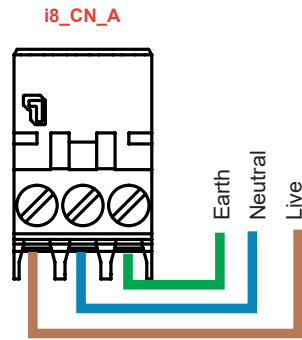


Fig. 9

These connections are shown in 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 0.75mm².

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.

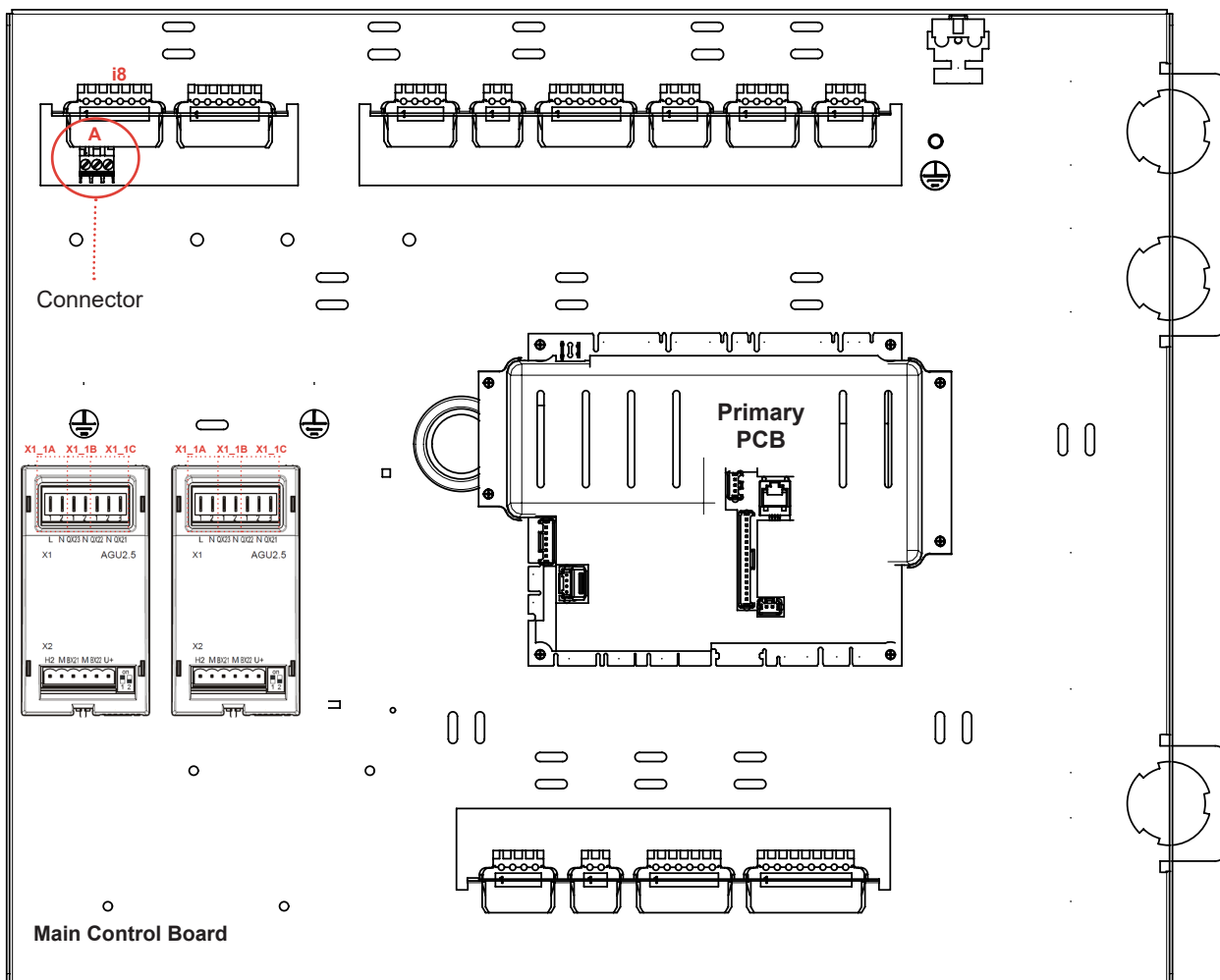


Fig. 10

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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 Dual 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.

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 0.75mm².

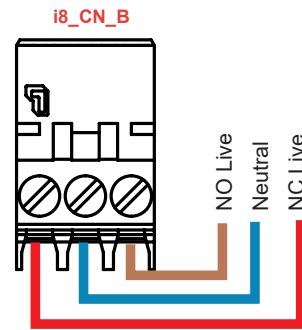


Fig. 11

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.

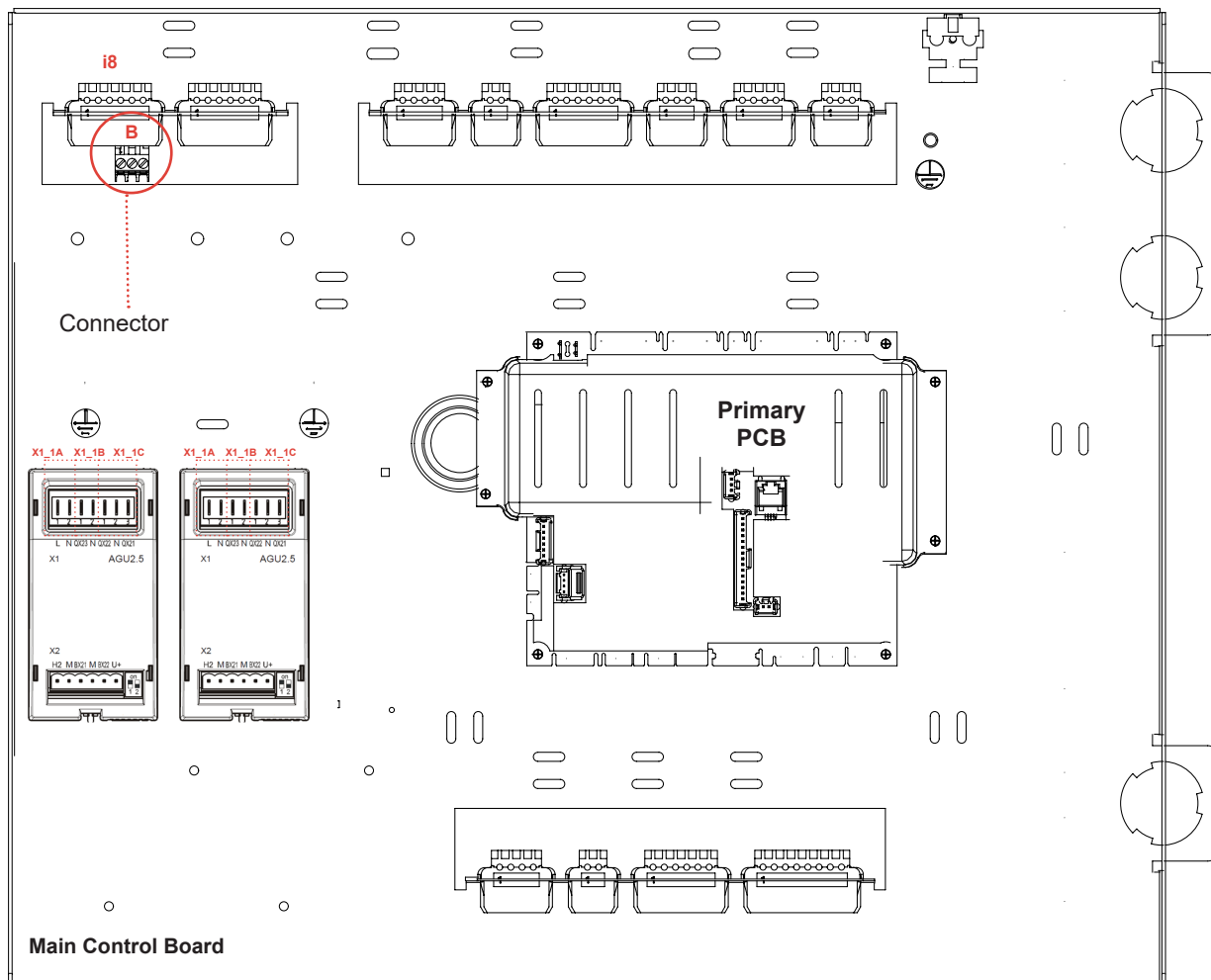


Fig. 12

INSTRUCTIONS

1.9 CONNECTING HEATING CIRCUIT 3 PUMP

Connect the heating circuit 3 pump wiring to connector I7_CN_A as follows. This connector is part of the Dual circuit connections kit:

1. Connect the Pump Live wire to pin 1 of connector I7_CN_A.
2. Connect the Pump Neutral wire to pin 2 of connector I7_CN_A.
3. Connect the Pump Earth wire to pin 3 of connector I7_CN_A.

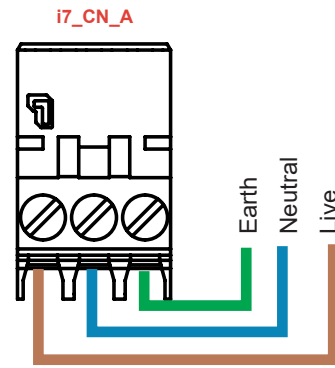


Fig. 13

These connections are shown in Fig 13.

Insert connector I7_CN_A into Installer connector I7, as shown in Fig 14.

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 0.75mm².

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.

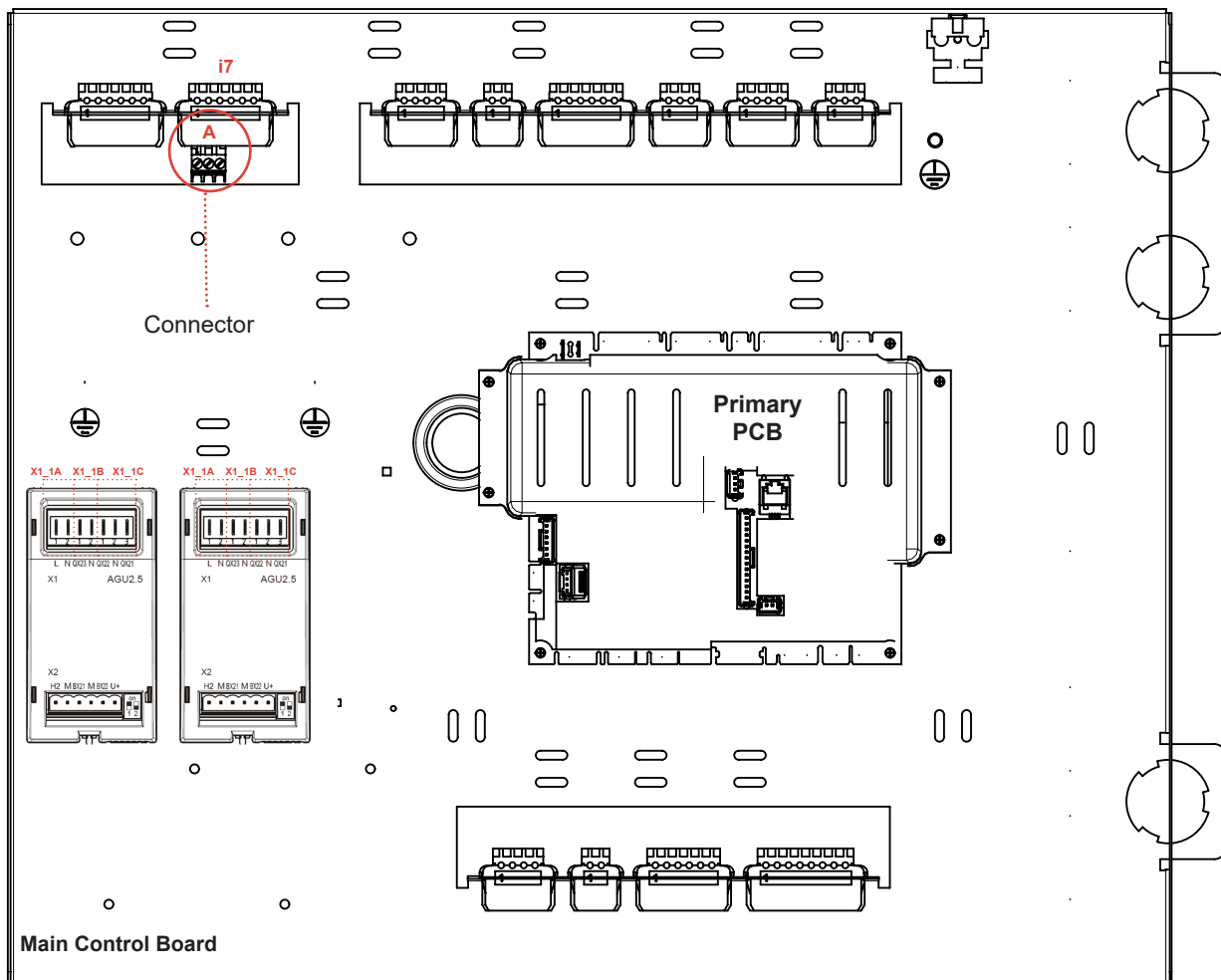


Fig. 14

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1.10 CONNECTING HEATING CIRCUIT 3 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 3 mixing valve wiring to I7_CN_B as follows:

1. Connect the Mix Valve Normally Closed Live wire to pin 1 of connector I7_CN_B.
2. Connect the Mix Valve Neutral wire to pin 2 of connector I7_CN_B.
3. Connect the Mix Valve Normally Open Live wire to pin 3 of connector I7_CN_B.

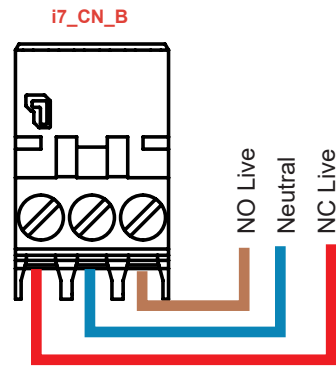


Fig. 15

These connections are shown in Fig 15.

Insert connector I7_CN_B into Installer connector I7, as shown in Fig 16.

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 0.75mm².

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.

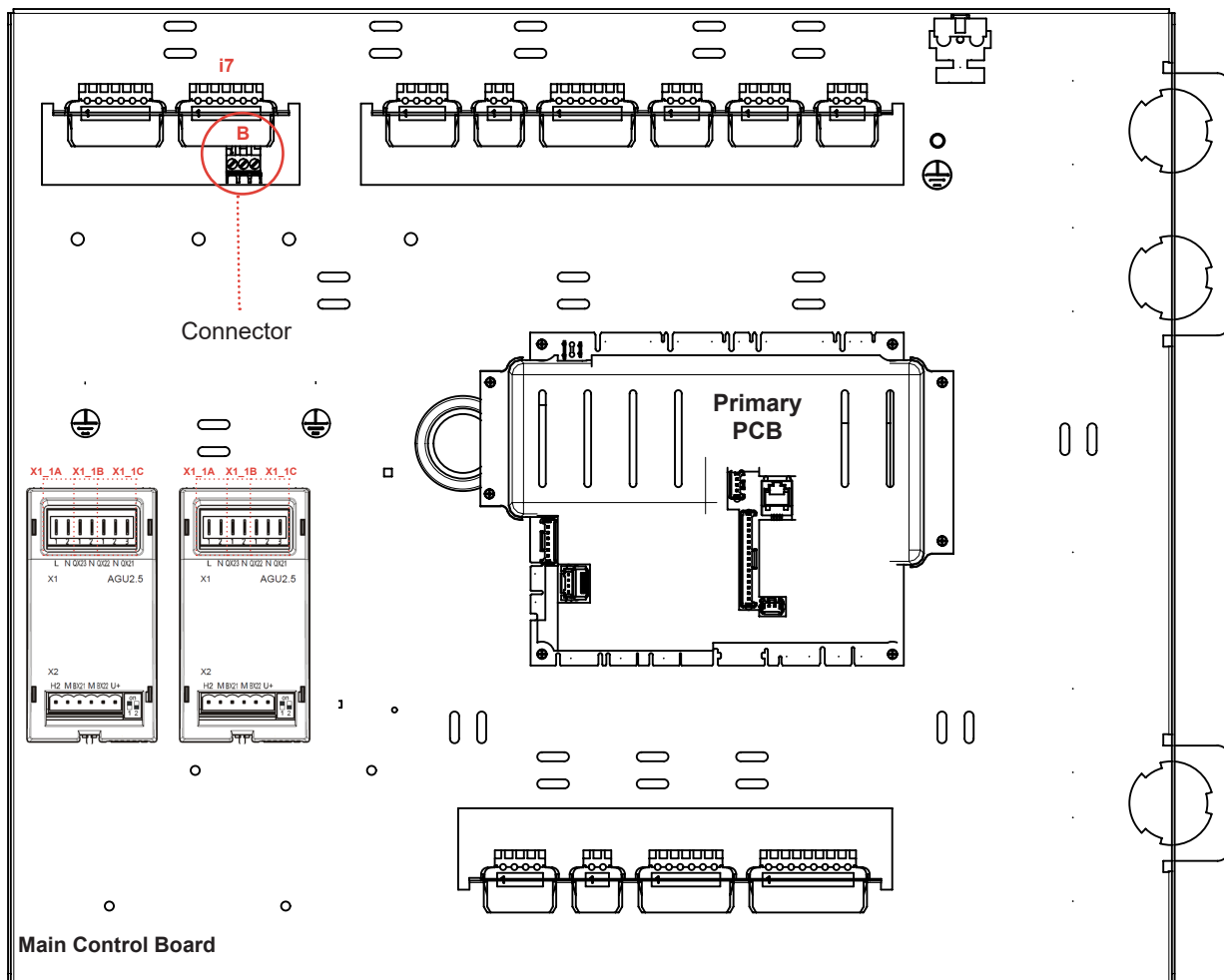


Fig. 16

INSTRUCTIONS

1.11 HEATING CIRCUIT 2 HARDWARE SETUP

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

The location of the DIP switches is shown in Fig 17. Switch 1 needs to be in the 'On' position and switch 2 needs to be in the 'Off' position.

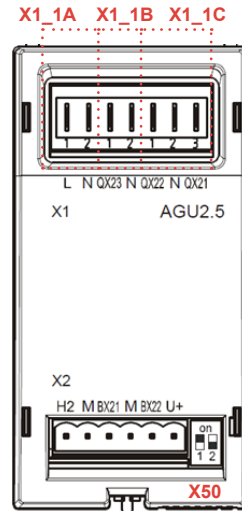


Fig. 17

1.12 HEATING CIRCUIT 3 HARDWARE SETUP

To use AGU2.550 as Heating circuit 3, the user must ensure that the DIP switch settings of the second AGU2.550 are set accordingly.

The location of the DIP switches is shown in Fig 18. Switch 1 needs to be in the 'On' position and switch 2 needs to be in the 'Off' position.

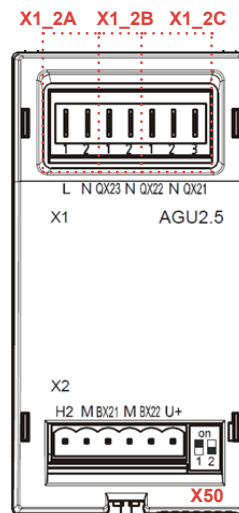


Fig. 18

INSTRUCTIONS



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.



FM 59915

Manufactured under
an ISO 9001
registered quality
management system

At Ideal Heating we take our environmental impact seriously, therefore when installing any Ideal Heating product please make sure to dispose of any previous appliance in an environmentally conscious manner. Households can contact their local authority to find out how. See <https://www.gov.uk/managing-your-waste-an-overview> for guidance on how to efficiently recycle your business waste.

Technical Training

Our Expert Academy offer a range of training options designed and delivered by our experts in heating. For details please contact:
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