

STAINLESS BOILER ALARM SIGNAL OUTPUT KIT INSTRUCTIONS Kit #550002997

Kit installation shall be completed by qualified agency.

⚠ WARNING
<p>Fire, explosion, asphyxiation and electrical shock hazard. Improper installation could result in death or serious injury. Read this instruction and understand all requirements, including requirements of authority having jurisdiction, before beginning installation. Installation not complete until appliance operation is verified per Installation, Operation & Maintenance Manual provided with boiler.</p>

⚠ WARNING
<p>Electrical shock hazard. Turn OFF electrical power supply at service panel.</p>

⚠ WARNING
<p>Burn hazard. Verify heat exchanger has cooled or use appropriate personal protection equipment.</p>

Boiler installation shall conform to requirements of authority having jurisdiction or in absence of such requirements:

- United States
 - National Fuel Gas Code, ANSI Z223.1/NFPA 54.
 - National Electrical Code, NFPA 70.
- Canada
 - Natural Gas and Propane Installation Code, CAN/CSA B149.1.
 - Canadian Electrical Code, Part I, Safety Standard for Electrical Installations, CSA C22.1

1- Kit Contents and Application

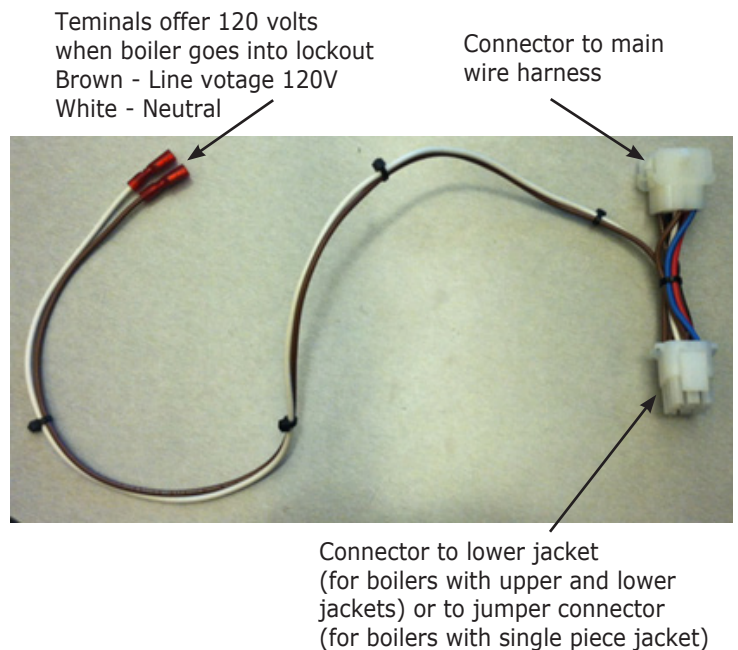
Table 1 - Kit #550002997 Contents		
Description	Part Number	Qty
Alarm output wire harness	240010829	1
Kit Instructions	240010830	1

Kit can be applied to boilers with Model Number starting with UBSSC, DKVLT, OLSSC, GWM, and BWM. Boiler model numbers UBSSC-050 and BWMAAN000299 are two examples.

2 - Background

- Argus control board used in Stainless Wall Hung boilers has an alarm signal output. When the boiler goes into lockout, control sends 120 volts to alarm signal output terminal on control board (J4 connector).
- This kit makes this voltage signal available to installers. Installers in the field can use it to trigger field sourced devices, such as an alarm or indicator light, etc.
- The wire harness supplied in this kit is shown in Figure 1.

Figure 1 - Supplied Wire Harness



INSTALLATION PROCEDURE FOR BOILER WITH UPPER AND LOWER JACKETS

3 - INSTALLATION PROCEDURE for boiler with upper and lower jackets

1. Follow instructions TO TURN OFF GAS TO APPLIANCE found on Operating Instructions label on boiler or in Installation, Operation & Maintenance Manual.
2. Let boiler finish post purge if the boiler is firing when shutting down gas supply.
3. Remove upper front jacket.

⚠ WARNING

Burn hazard. Verify heat exchanger, igniter, and flame sensor have cooled or use appropriate personal protection equipment before removing.

4. Inspect combustion chamber through sight glass. Verify flame is not present.

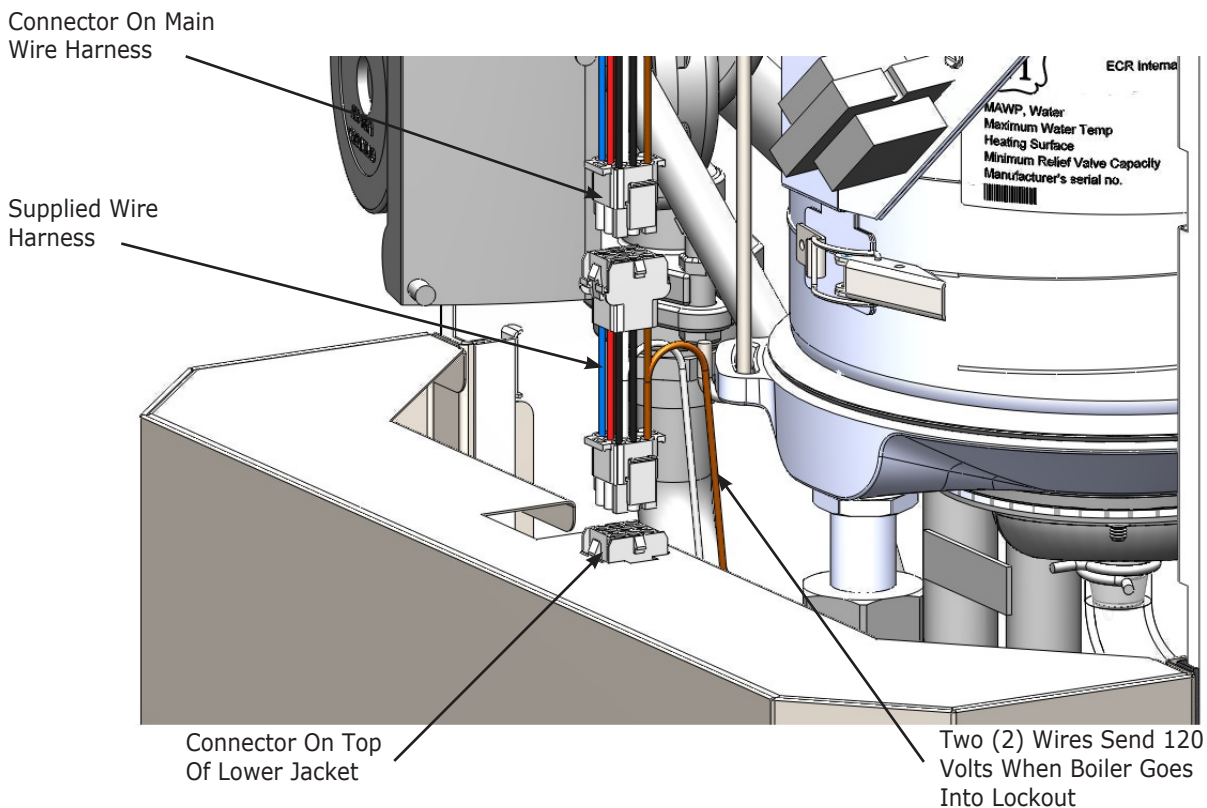
⚠ WARNING

Electrical shock hazard. Turn OFF electrical power supply at service panel.

5. Shut off electrical supply to the boiler.
6. Disconnect Molex connection on top of lower jacket. See Figure 2.

7. Connect supplied wire harness. One end to top of lower front jacket, one end to main wire harness connector.
8. Connect two stand alone terminals on supplied wire harness to field sourced alarm device.
9. Turn on electrical power to the boiler.
10. Let boiler ignite three times with gas supply shut down to create lockout.
11. Verify field sourced alarm device receives 120V from boiler control and works properly.
12. Reset boiler to clear lockout.
13. Open gas supply to boiler.
14. Replace upper front jacket.
15. Resume operation using OPERATING INSTRUCTIONS found on Operating Instructions label on boiler or in Installation, Operation & Maintenance Manual.
16. Verify proper operation by following START UP PROCEDURE in Installation, Operation & Maintenance Manual.

Figure 2 - Connection for Boiler with Upper and Lower Jackets



INSTALLATION PROCEDURE FOR BOILER WITH SINGLE PIECE JACKET

4 - INSTALLATION PROCEDURE for boiler with single piece jacket

1. Follow instructions TO TURN OFF GAS TO APPLIANCE found on Operating Instructions label on boiler or in Installation, Operation & Maintenance Manual.
2. Let boiler finish post purge if the boiler is firing when shutting down gas supply.
3. Remove front jacket.

⚠ WARNING

Burn hazard. Verify heat exchanger, igniter, and flame sensor have cooled or use appropriate personal protection equipment before removing.

4. Inspect combustion chamber through sight glass. Verify flame is not present.

⚠ WARNING

Electrical shock hazard. Turn OFF electrical power supply at service panel.

5. Shut off electrical supply to the boiler.
6. Disconnect the jumper Molex connector from the main wire harness.

7. Connect the wire harness (supplied in this kit) one end to the jumper connector and the other end to the main wire harness. See Figure 3.
8. Connect the two stand alone terminals on the wire harness (supplied in this kit) to field sourced alarm device
9. Turn on electrical power to the boiler.
10. Let boiler ignite three times with gas supply shut down to create lockout.
11. Verify field sourced alarm device receives 120V from boiler control and works properly.
12. Reset boiler to clear lockout.
13. Open gas supply to boiler.
14. Replace front jacket.
15. Resume operation using OPERATING INSTRUCTIONS found on Operating Instructions label on boiler or in Installation, Operation & Maintenance Manual.
16. Verify proper operation by following START UP PROCEDURE in Installation, Operation & Maintenance Manual.

Figure 3 - Connection for Boiler with Single Piece Jacket

