

UCA/B/E, STA/B/E (H.S.I.) & SCA heater modification for SmartCom burner lockout reset issues.



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Warnings

All external wiring MUST comply with the current IEE wiring regulations.

General information.

When UCA/B/E & STA/B/E with Hot Surface Ignition (H.S.I.) and SCA heaters are being controlled via SmartCom controllers and the burner is in a lockout state, the controller will currently not reset.

This condition is caused by the removal of power to the Honeywell controller when the lockout reset button is depressed. To rectify this an additional relay is added in circuit to retain power to the ignition board

whilst in a lockout state to enable the lockout reset to re-activate the system.

This technical bulletin describes in detail the procedure required to complete this task.

The information contained in this technical bulletin is designed to aid a qualified or competent service technician in the instruction it is intended for.

Tools required.

The following tools and equipment will be required to complete this task:

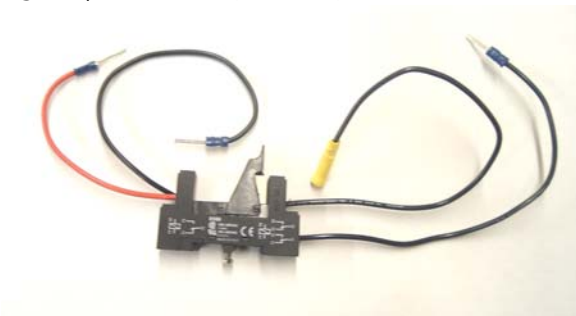
1. Pre-wired relay assembly pt no. 201550
2. Flat head screwdriver
3. Electrical screwdriver
4. Wire strippers
5. Crimpers
6. Multi-meter.

Step by step instructions.

! ISOLATE ALL ELECTRICAL SUPPLY TO THE HEATER AND SMARTCOM CONTROL PANEL BEFORE PROCEEDING.

1. Open control section side panel by first removing retaining screw(s). Allow door to hang.
2. The contractors terminal rail and internal wiring harness is mounted on a plate on the side of the heat exchanger directly in front of you.
3. Locate and position the pre-wired relay assembly (fig.1) onto the mounting plate utilising a spare pre-punched hole (fig.3).

fig.1 – pre-wired relay assembly.



4. Locate and position the **ORANGE** wire from the relay and using an electrical screwdriver, secure into terminal 6 of the terminal rail.
5. Locate and position the **PURPLE** wire from the relay and using an electrical screwdriver, secure into terminal 10 of the terminal rail (fig.2).
6. Locate and position the **RED** wire from the relay and using an electrical screwdriver, secure into terminal 1 of the terminal rail.
7. Locate and position the **BLUE** wire from the relay and using an electrical screwdriver, secure into terminal N of the terminal rail.

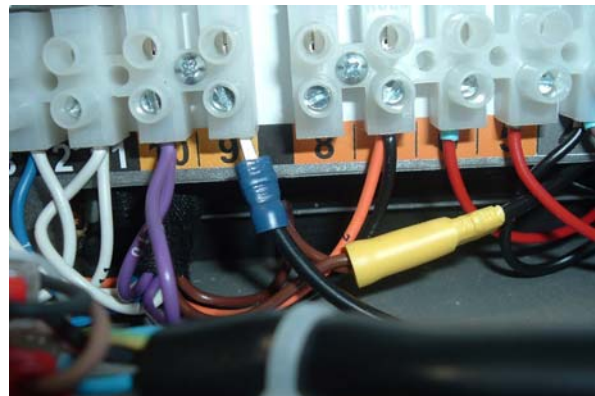


fig.2 – Purple wire to terminal 10.

8. Check wire tightness and continuity.
9. Re-position the control section side panel and close by turning quarter turn screw clockwise.
10. Turn the mains isolator back on.
11. Call for heat.

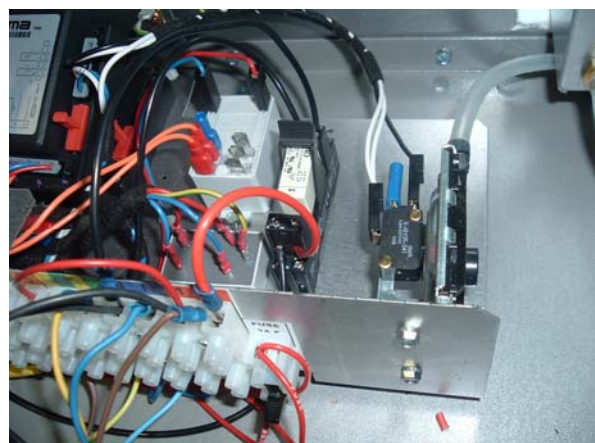


fig.3 – Detail of relay position.


12. If the heater was already in a state of lockout prior to modification, both the heater will indicate lock-out and the SmartCom controller will state 'Lockout'.
13. Press the  button once.
14. After a 8 second delay there will be an audible click from a relay within the SmartCom, the lock-out indication lamp on the heater will go out and the SmartCom display will return to normal mode.



fig.4 – Honeywell ignition board.

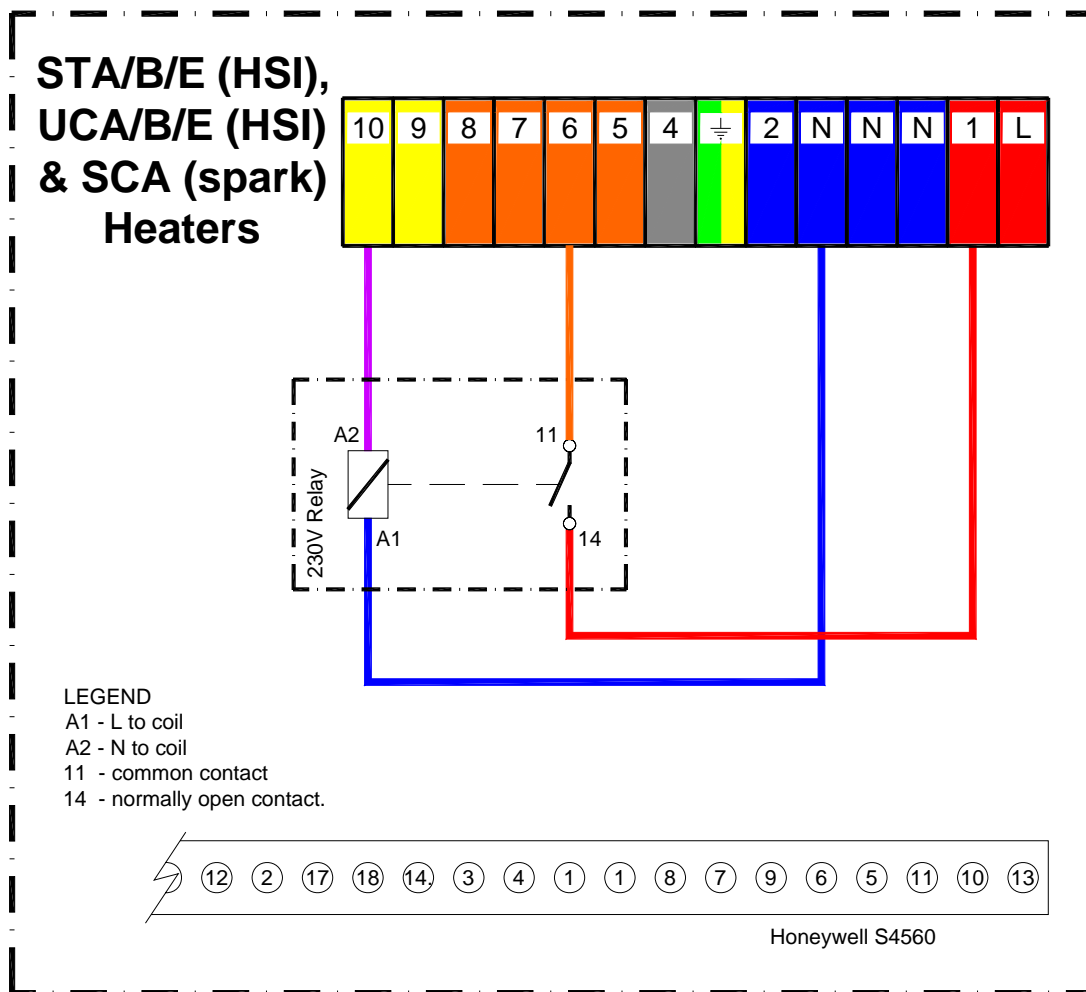


fig.5 – Wiring modification schematic.

Interconnection wiring diagram & heater modifications.

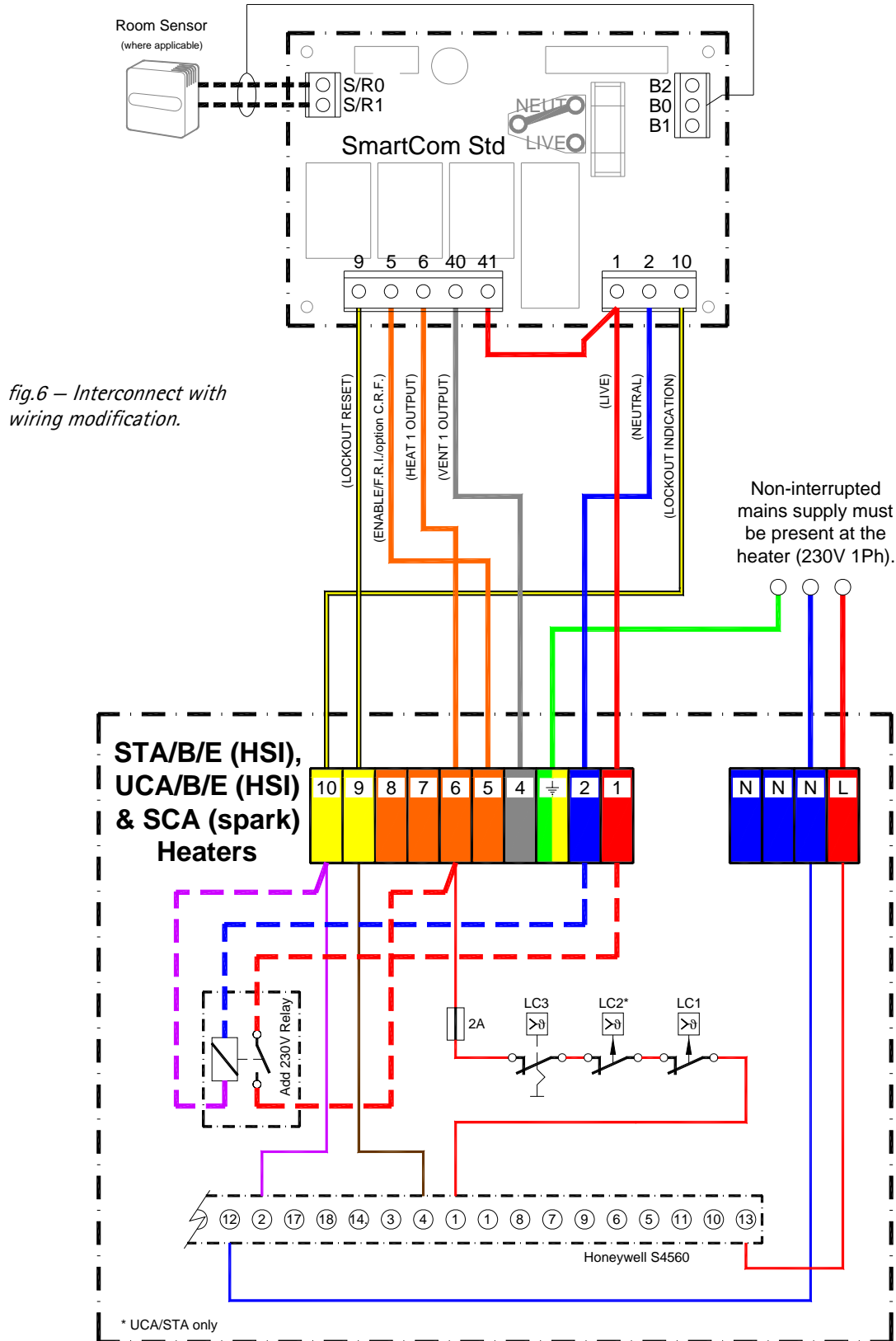


fig.6 – Interconnect with wiring modification.



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