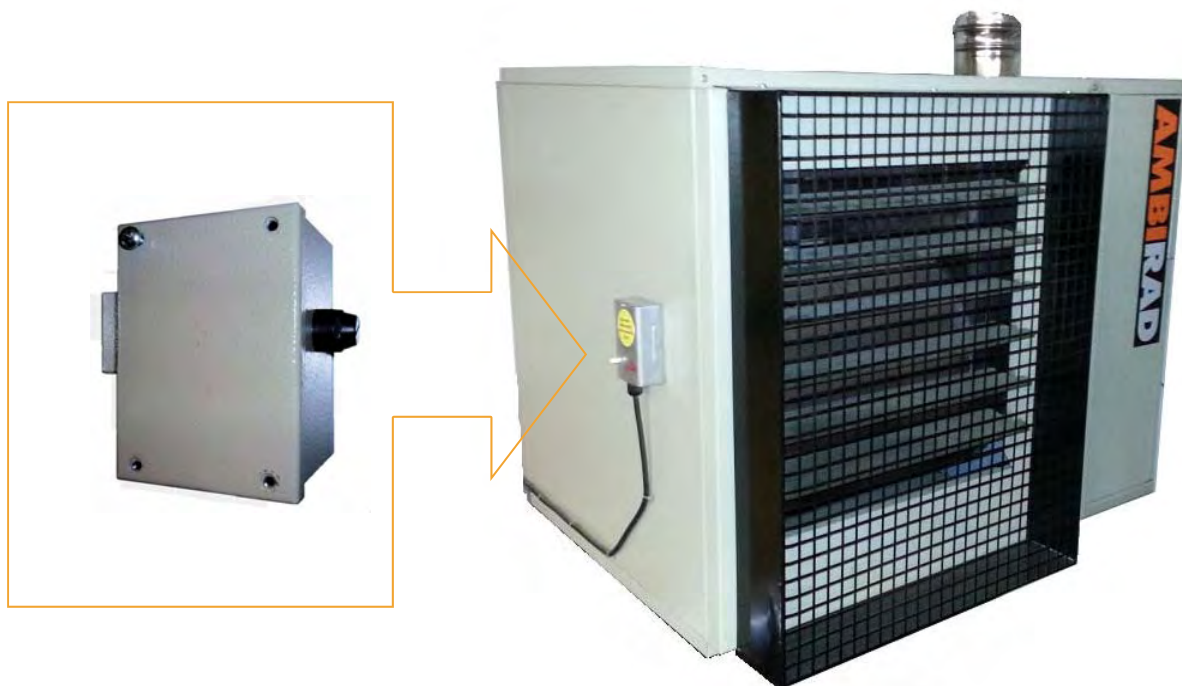


# **BENSON OUH OIL FIRED HEATER NEW FAN CONTROL/LIMIT STAT RETROFIT**



## **WARNINGS**

Benson equipment must be installed and maintained in accordance with the current OFTEC Regulations for oil fired products. Due account should also be taken of any obligations arising from the Health and Safety at Works Act 1974 or relevant codes of practice. In addition the installation must be carried out in accordance with the current IEE wiring regulations (BS 7671), and any other relevant British Standards and Codes of Practice by a qualified installer. All external wiring **MUST** comply with the current IEE wiring regulations.

The original Honeywell fan control/overheat limit thermostat is no longer available for the OUH range of warm air heaters.

This bulletin describes the parts required and method of fitting a replacement fan control and overheat limit thermostat to these heaters.

The functions of the original Honeywell controller will now operate from two separate components fitted inside a replacement housing, comprising of a 110° C limit thermostat and a fan control thermostat. The new housing fits into the original Honeywell sensing tube hole.

**WARNING: DISCONNECT BOTH ELECTRICAL AND GAS SUPPLIES BEFORE CARRYING OUT ANY WORK ON THIS HEATER.**

A replacement fan control/limit thermostat kit part No. **20-45-590** will be required comprising of:

- 1 off 110° C overheat thermostat (in housing)
- 1 off fan control thermostat (in housing)
- 1 off housing gasket
- 6 off M5 X 12 self tappers
- 5 off red insulated 6.4mm female crimps (loose)

## Procedure

### 1: Remove original Honeywell fan control/limit stat:

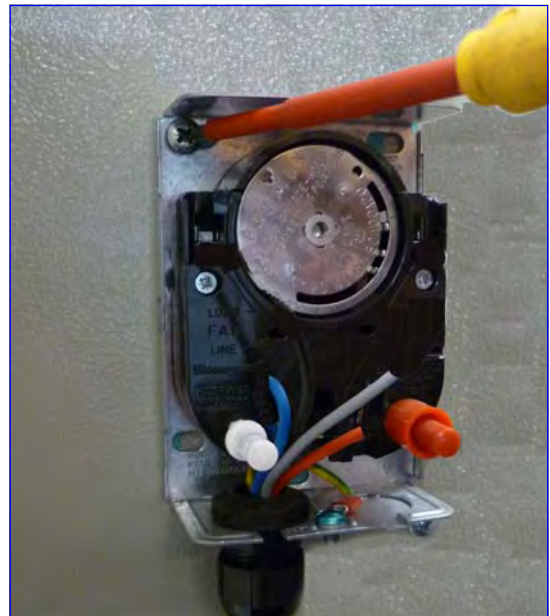
Remove single retaining screw securing the lid of the original fan/limit stat as shown.



Disconnect the five cables (black, brown, grey, blue and earth) by releasing the quick connectors with a screwdriver as shown. Remove the earth crimp fixing screw.

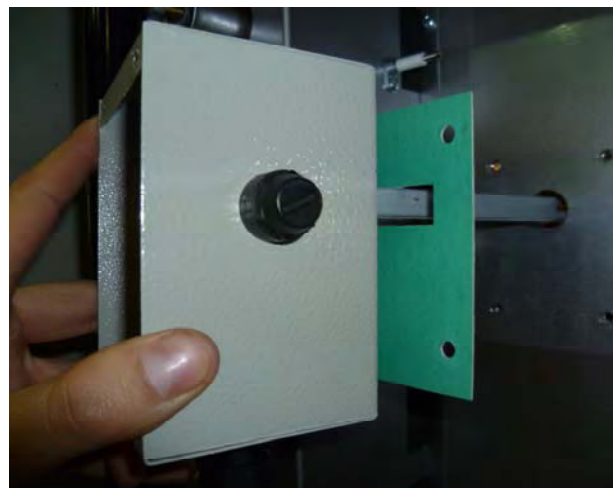


Remove mounting screws as shown.

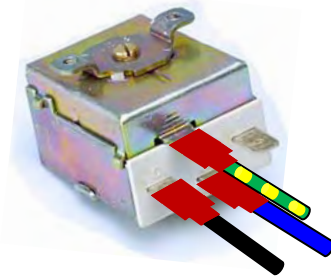


### 2: Fit replacement fan control/limit stat assembly

Slide gasket over sensing tube as shown. Fit assembly into original hole.

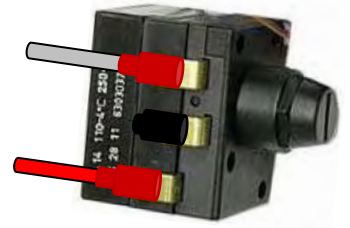


Fix in position using the original holes.



Fan control thermostat wiring connections

Overheat thermostat wiring connections



Fit lid to box using 4 screws provided

Fit the supplied female spade crimps to the original cables .



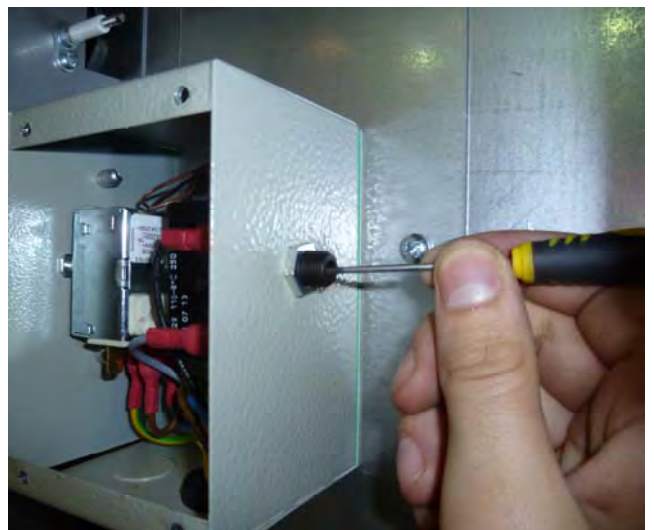
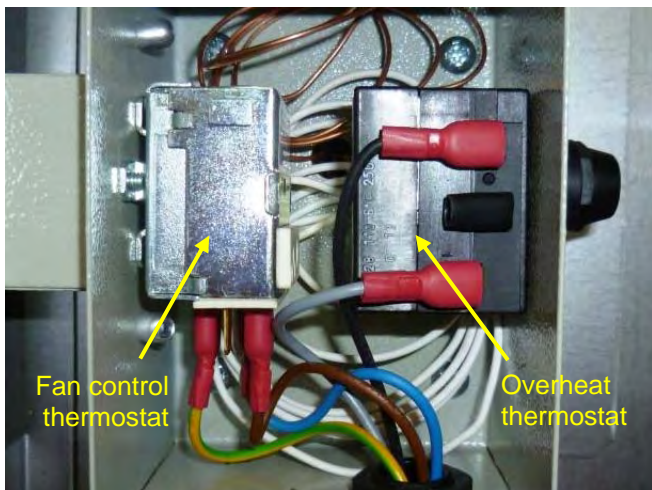
Fit original cable gland into new assembly and connect new fan control/limit thermostats as follows:

- Fan control thermostat: **Black to terminal C**  
**Blue to terminal 2**  
**Green/Yel to Earth terminal**
- Overheat thermostat: **Red to terminal 2**  
**Grey to terminal 1**

Upon completion the heater should be tested for correct operation of the fan control and overheat limit.

#### 4: Overheat thermostat reset:

In the event of the overheat thermostat tripping, once the cause has been remedied, it can be reset by removing the protective screw cap, then pushing in the green button as shown below.



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