



ELECTRICALLY HEATED ACR HE TWIN THERMAL CUTOUT RETROFIT



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WARNINGS

- 1 This appliance must only be installed by a competent person in accordance with the requirements of the Codes of Practice or the rules in force.
- 2 All external wiring MUST comply with the current IEE wiring regulations.
- 3 Warning this appliance must be earthed.

1. General Information

Previous electrically heated ACR HE models were fitted with a single thermal cutout. This was to prevent overheating in the event of a stalled rotor. As an additional safety measure a second thermal cutout has been introduced to protect against overheating in the event of a single rotor stalling.

Ambient and LPHW models are not affected.

This bulletin describes the installation method for retrofitting an extra thermal cutout to the range of ACR HE model air curtains using the retrofit kit.

The kit contains all the parts needed to complete the task.

Ambirad part No. **ACR-STAT-RF-KIT**

Fixing bracket



2 x Self tappers
(thermal cutout fixings)



2 x M5 pins/nuts
(bracket fixings)



Connecting cables

Thermal cutout



2 x Pop rivets (4.8mm)
Alternative
bracket
fixings



2 x Cable
ties



Sticky pads



2. Tools Required



Pop riveter



Screwdrivers



Pliers



Drill/bits



Multimeter

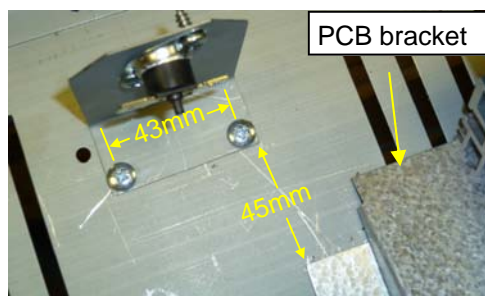
3. Fitting

ACR180HE18 / ACR120HE12 (SmartElec or standard versions)

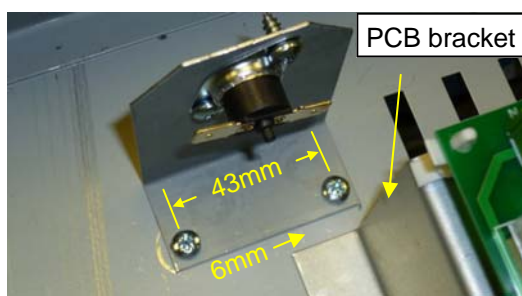
- ◆ Fix the new thermal cutout to its bracket with the self tappers provided.
- ◆ Drill two new 5mm holes at 43mm centres to the left of the PCB bracket referring to the diagrams below.
- ◆ Fix the bracket c/w thermal cutout in place using the two M5 pins and nuts provided.
- ◆ Refer to the diagrams overleaf for wiring method.

Note: If it is not possible to access the top of the unit to fit the two 5mm nuts in place, it will be necessary to pop rivet the bracket from inside the unit using the two 4.8mm pop rivets provided.

SmartElec controller

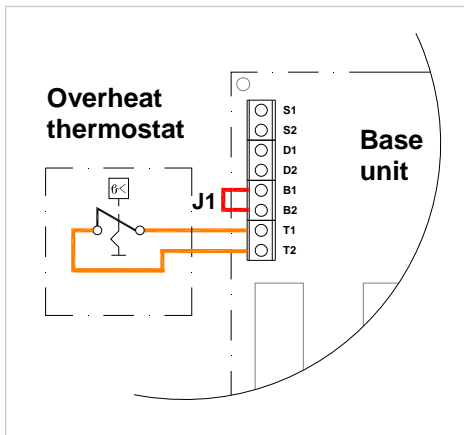


Standard controller

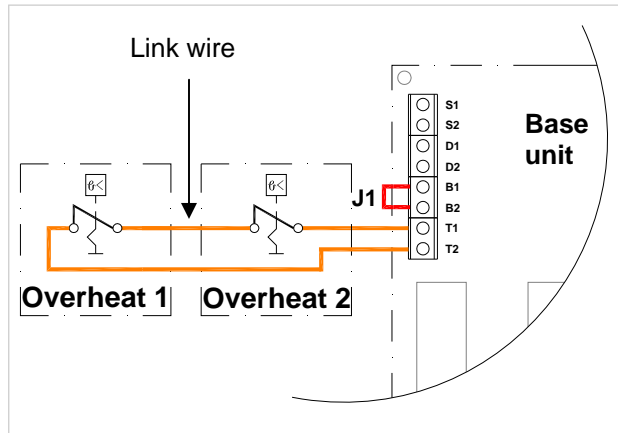


4. Wiring

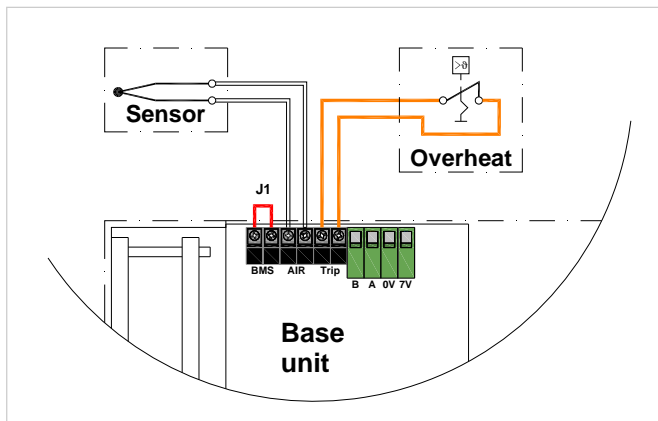
Original wiring (single thermal cutout standard controller)



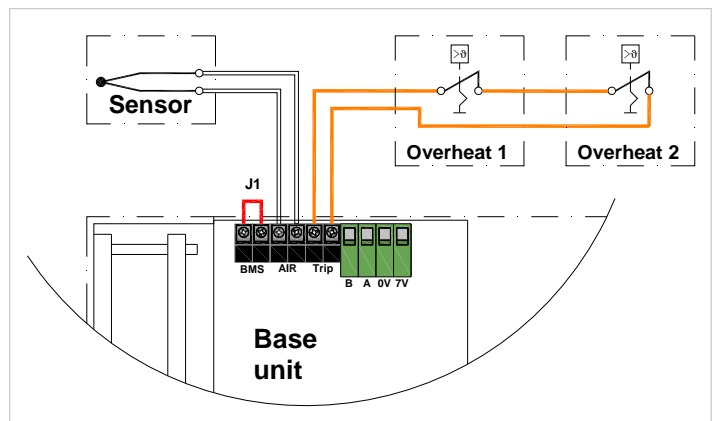
New wiring (dual thermal cutout standard controller)



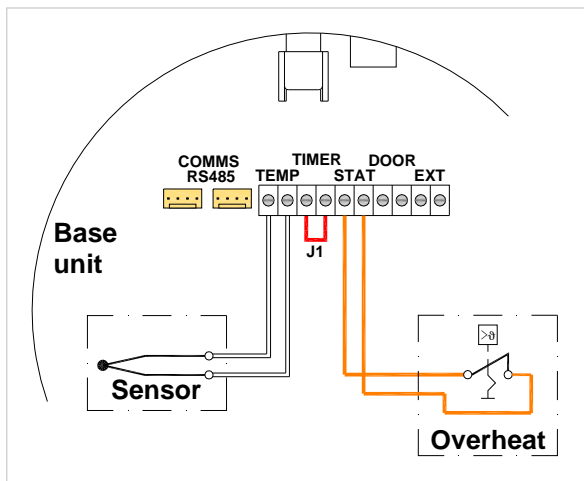
Original wiring (single thermal cutout SmartElec 1)



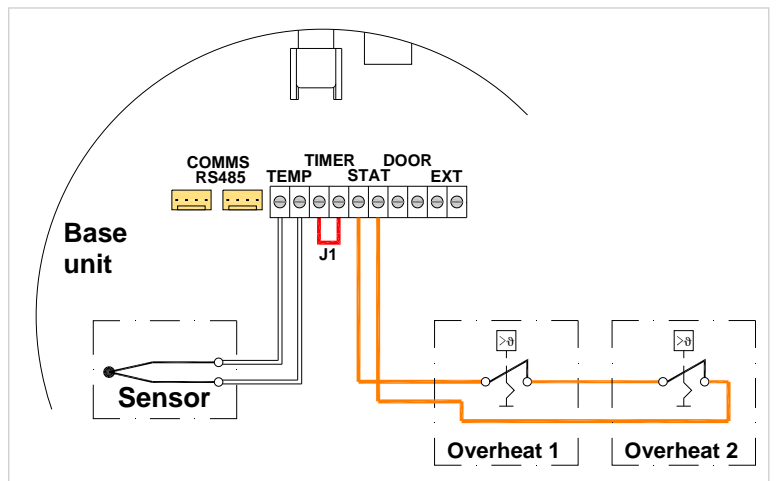
New wiring (dual thermal cutout SmartElec 1)



Original wiring (single thermal cutout SmartElec 2)



New wiring (dual thermal cutout SmartElec 2)



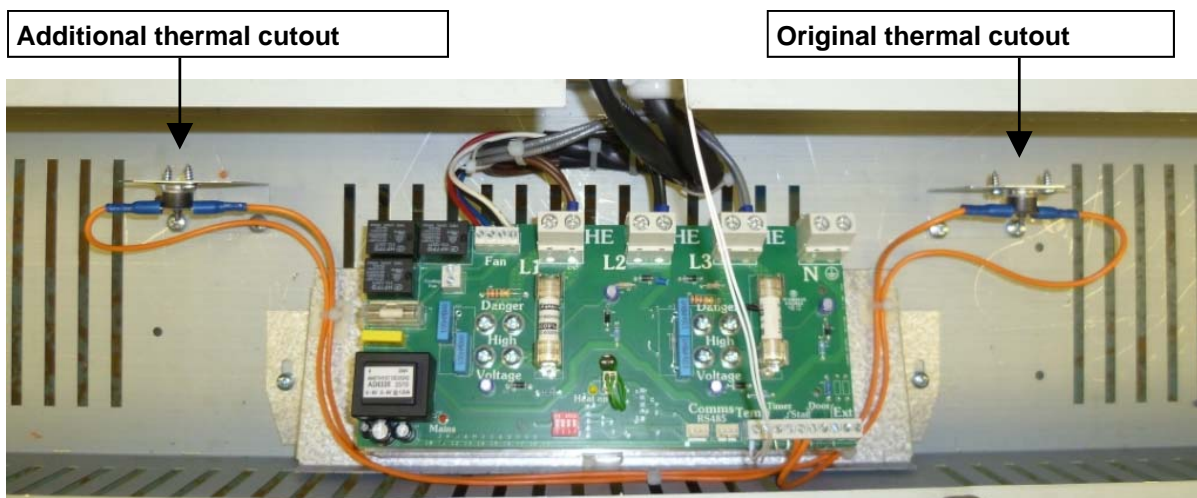
4. Wiring cont.

- ◆ Remove the longest orange cable from the existing thermal cutout and disconnect it from the PCB. Leave the other wire connected to the PCB **T1**.
- ◆ Locate the link cable from the kit, (crimped both ends), and fit between the original and new thermal cutouts.
- ◆ Locate the other cable from the kit and fit the crimped end to the furthest thermal cutout from the PCB. Connect the stripped end to **T2** on the PCB.

T1 and **T2** refer to the standard controller. Please see alternative diagrams for SmartElec 1 and 2.

Note: The new thermal cutout **MUST** be wired in series with the existing thermal cutout as shown in the previous diagrams using the cables provided. Any other method could result in the unit overheating in the event of a rotor failure.

Twin thermal cutouts shown wired in



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