Technical Bulletin.

AIRBLOC

REWIRING OF THE AIRBLOC ACT LOW VOLTAGE RELAYS.

INDEX   Section

WARNINGS

All installations should be in accordance with the relevant requirements of Building Regulations, Local Authority Byelaws and I.E.E. Regulations and Units should be wired by a competent, qualified Electrician.

Tools required.

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

1. Rewiring kit pt no 900365 (as a retrofit for the ORIGINAL configuration).

2. Rewiring kit pt no 900366 (as a retrofit for the MODIFIED configuration).
3. Electrical screwdriver.
4. Small pozi screwriver.

General Information.

Where re-wiring of the ACT low voltage relays are required, the following instructions will need to be carried out.

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

There are two versions of the options currently out in the field. The following pages will be split into two halves. Note your particular Airbloc ceiling tile type and follow the instructions to suit.

AIRBLOC
ENERGY SAVING AIR CURTAINS

An Ambi-Rad Group company

The original configuration consisted of a wiring 'tray' attached to the front of the wiring contractors terminal enclosure. This houses a 24V relay and base, a 24V relay and a 5 way terminal block (see fig.2 below).

fig.2 original contractors box configuration

This type is identified by it's four **YELLOW** wiring spade connectors, connected to the clear relay.

The second configuration houses a 24V relay and base, a 24V relay and a 5 way terminal block within the contractors terminal enclosure box itself (see fig.3 below).

fig.3 Modified wiring tray configuration

This type is identified by it's two **YELLOW** wiring spade connectors & two **BLUE** wiring spade connectors, connected to the clear relay.

Step by step instructions.

Warning
Ensure electrical power is isolated from the product.

For the details relating to the wiring tray configuration, follow the details shown on the ***LEFT HAND*** *side.*

For ease of maintenance it may be advisable to firstly remove the ceiling tile. For information on how this is achieved, please refer to the Installation instruction manual.
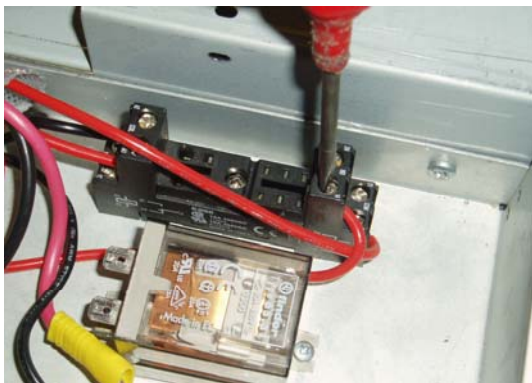

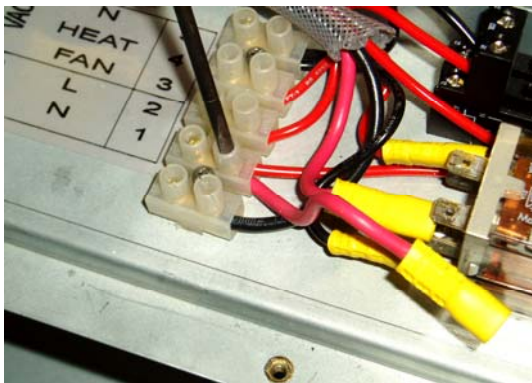1. Using a small pozi screwdriver, remove the THREE screws. Retain for later.

For the details relating to the contractors terminal box configuration, follow the details shown on the ***RIGHT HAND*** *side.*

For ease of maintenance it may be advisable to firstly remove the ceiling tile. For information on how this is achieved, please refer to the Installation instruction manual.

1. Using a small pozi screwdriver, remove the FOUR screws. Retain for later.
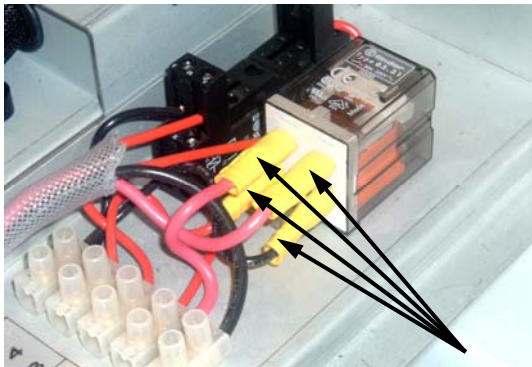
2. Remove the terminal connectors from the **CLEAR RELAY** as shown in the photo.

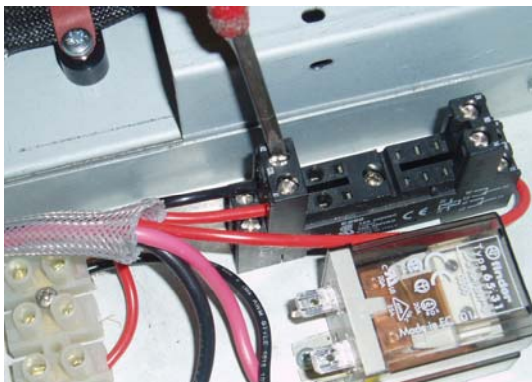

2. Remove the terminal connectors from the relay as shown in the photo above

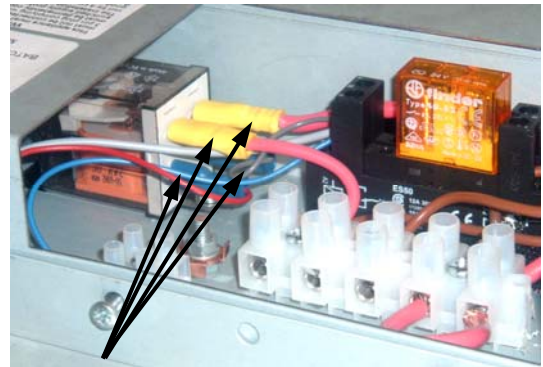3. Remove the **RED** cable from **BLACK RELAY n.o. terminal 14**
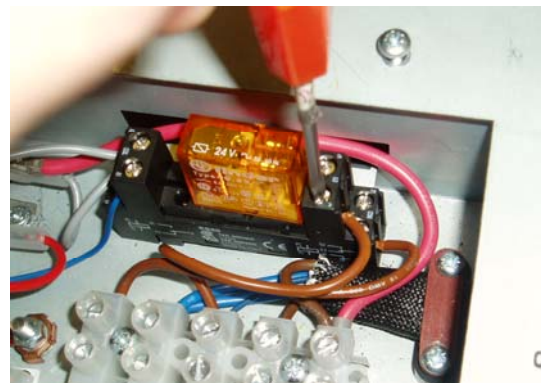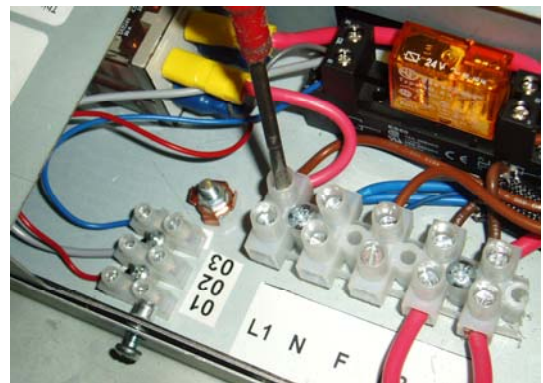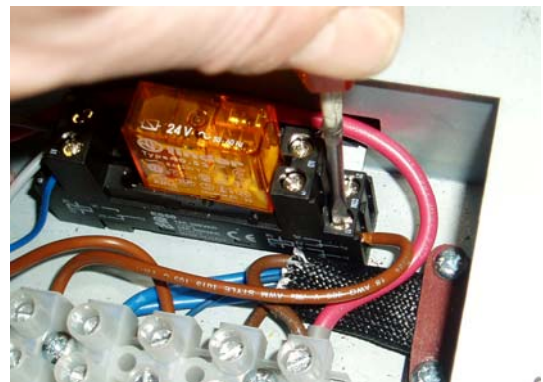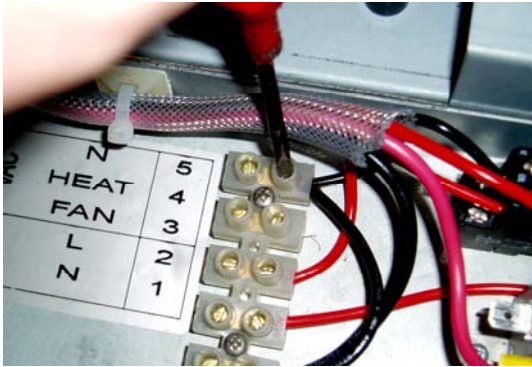

3. Remove the **BROWN** cable from **BLACK RELAY com. terminal 11**

4. Remove the two **RED** cables from **terminal 2**

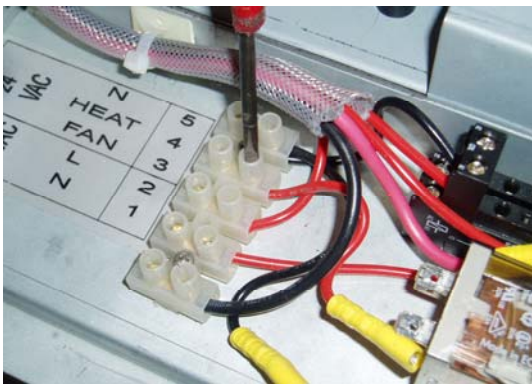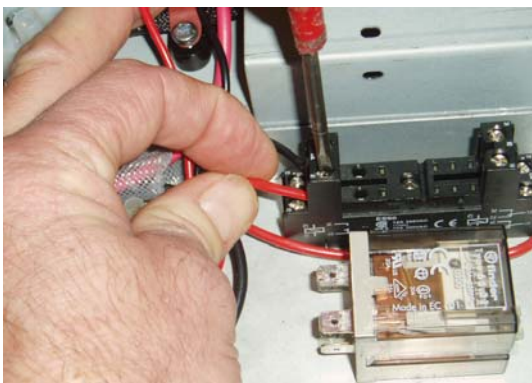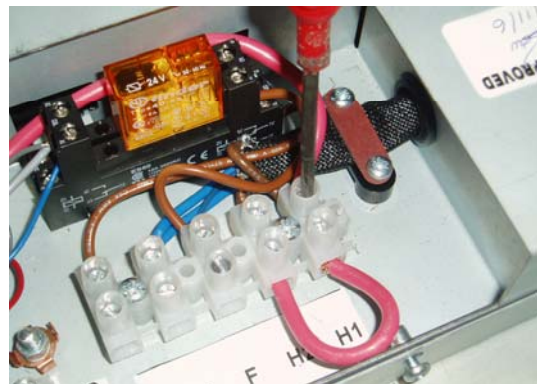4. Remove the **RED** and **BROWN** cables from **terminal L1**

5. Remove the **BLACK** cable from **BLACK RELAY COIL terminal A2**

5. Remove the **BROWN** cable from **BLACK RELAY n.o. terminal 14**

6. Remove the two **BLACK** cable from **terminal 5**

6. Remove the **BROWN** cable from **terminal 5**

7. Remove the **RED** cable from **terminal 4**

7. Remove the **RED** cable from **terminal H1**

8. Remove the **RED** cable from **BLACK RELAY COIL terminal A1**
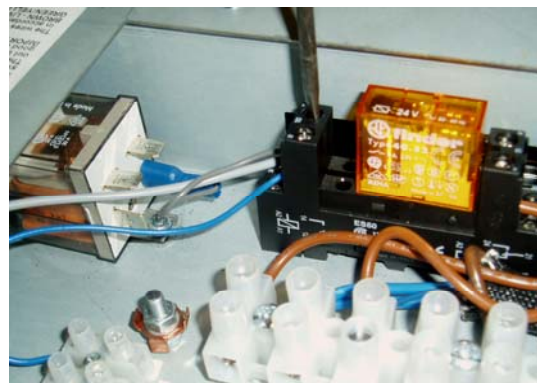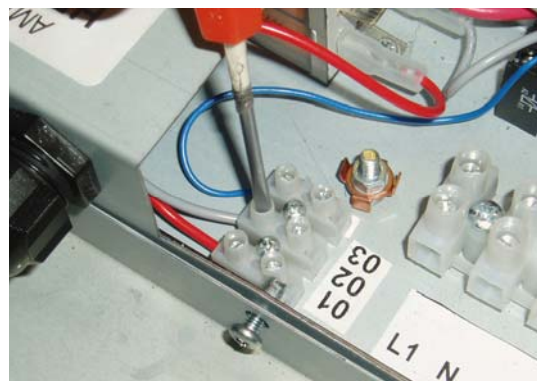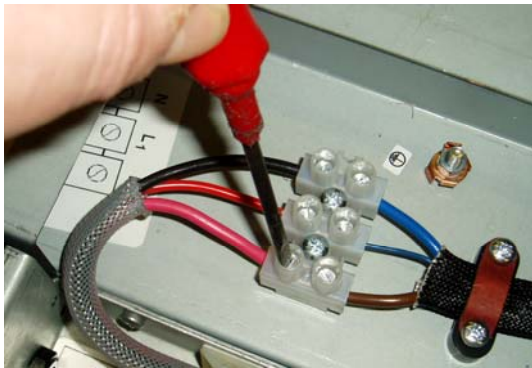

8. Remove the **TWO GREY** cables from **BLACK RELAY terminal A2**
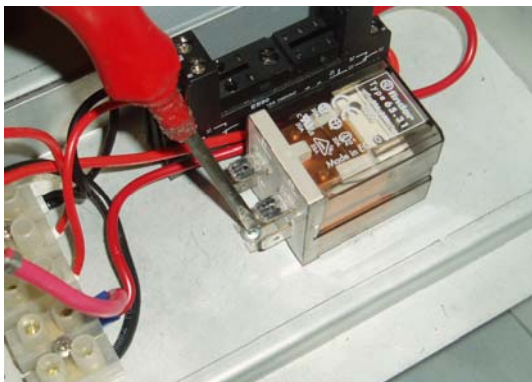

9. Remove the **RED** cable from **terminal 3**

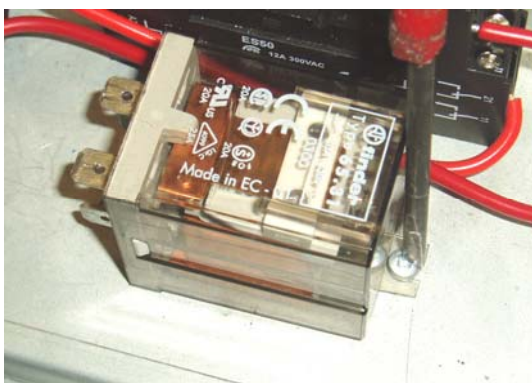9. Remove the **GREY** cable from **terminal 02**

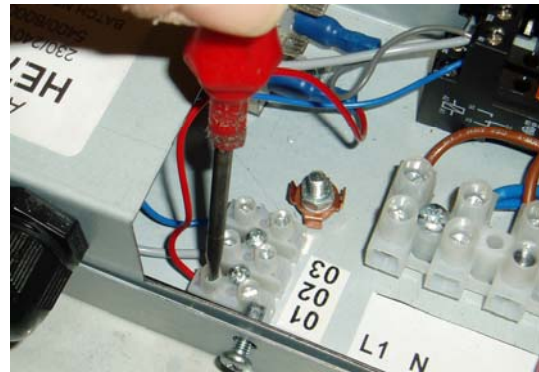10. Remove the **RED** cable from terminal L

11. Pull the **RED** cable through the sleeving and dispose.

12. Remove the **CLEAR RELAY** by first removing the self tapping screw, then loosening the screw on the opposite side (see above). Replace using a new **CLEAR RELAY** and position using the same two screws (see below).

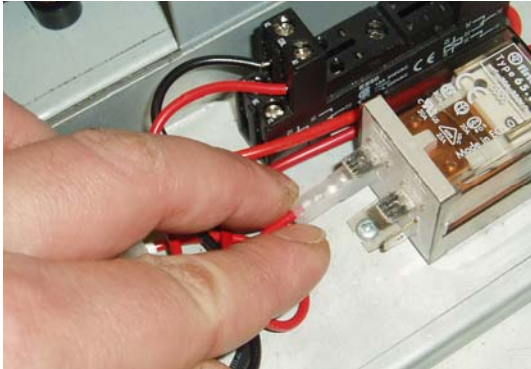10. Remove the **RED** cable from **terminal 01**

11. Remove the **CLEAR RELAY** by first removing the self tapping screw (see above), then withdrawing the relay (see below). Replace using a new **CLEAR RELAY** and position using the same screw.
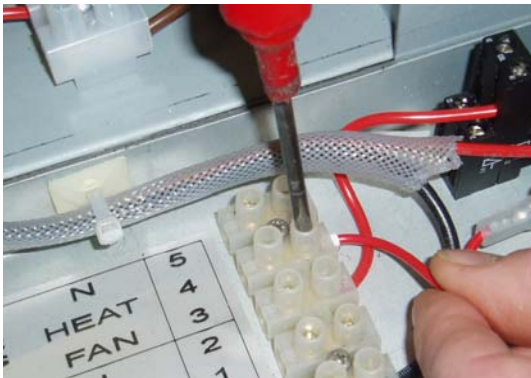

12. Locate the rewiring kit of cables. Using the short **GREY** cable, push the spade connector onto bottom right hand **CLEAR RELAY terminal no. A2**

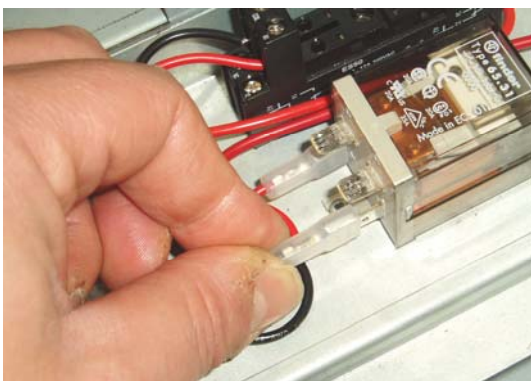13. Locate the rewiring kit of cables. Using the short **RED** cable, push the spade connector onto bottom left hand **CLEAR RELAY terminal no. A1**

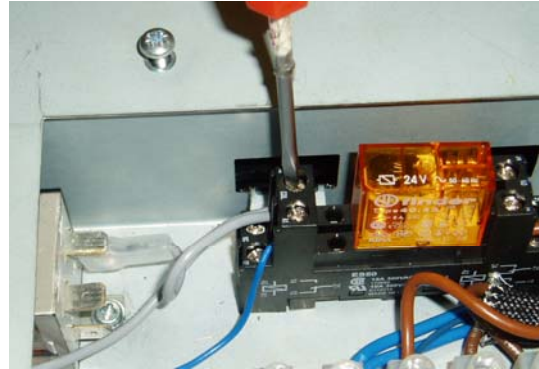14. Position and tighten other **RED** cable end into **terminal 4**

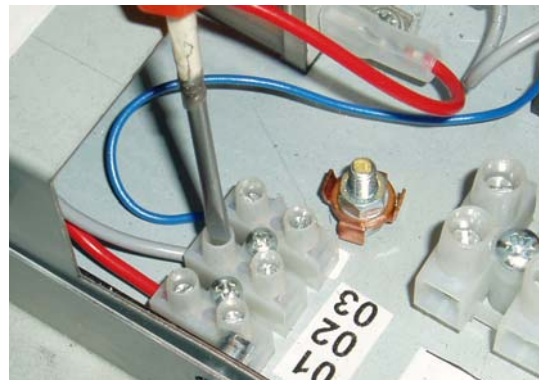15. Locate twin **BLACK** wire. Position **bootlace** into **terminal 5** and tighten

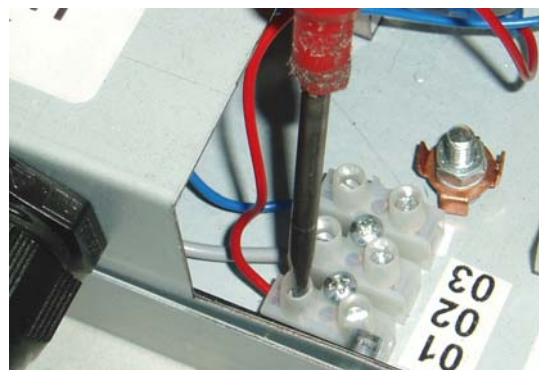16. Push the spade connector onto bottom right hand **CLEAR RELAY terminal no. A2**

13. Position and tighten other cable end into the **BLACK RELAY terminal A2** *TOGETHER WITH* the long **GREY** cable.

14. Position and tighten other **GREY** cable end into **terminal 02**
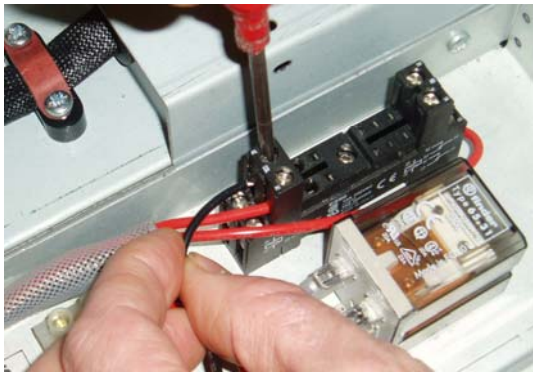

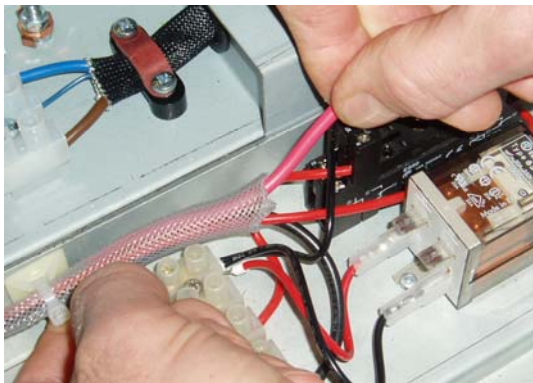15. Using the *THIN* **RED** cable, push the spade connector onto bottom left hand **CLEAR RELAY terminal no. A1**

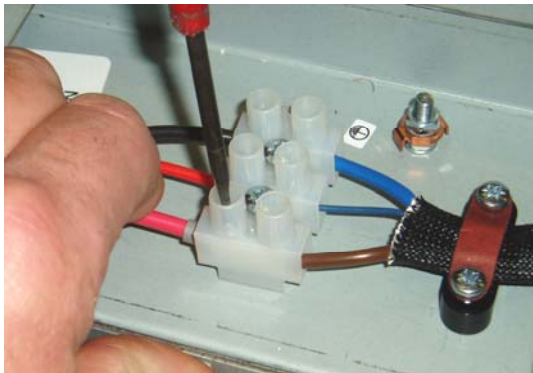16. Position and tighten other **RED** cable end into **terminal 01**

17.   Position and tighten other cable end into **BLACK RELAY terminal A2**

17.   Using the *THICK* **RED** cable, push the spade connector onto bottom left hand **CLEAR RELAY terminal no. 22**

18.   Feed the **LONG RED** cable through the sleeving– bootlace first

18.   Position and tighten other *THICK* **RED** cable end into **terminal H1**

19.   Position and tighten cable end into terminal block **terminal L**

19.   Locate twin **RED** & **BLACK** wire. Position **bootlace** into **terminal L1** and tighten

20.   Push the spade connector onto top left hand **CLEAR RELAY terminal no. 21**
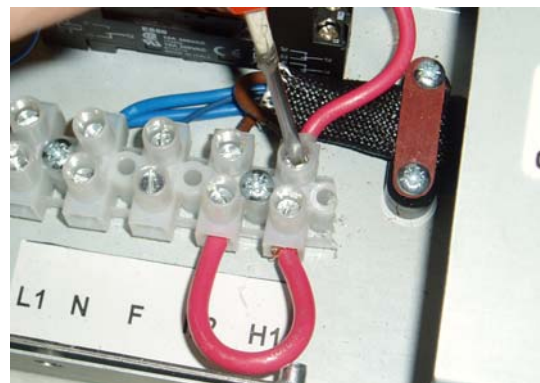

20.   Push the spade connector onto top left hand **CLEAR RELAY terminal no. 21**

For the details relating to the wiring tray configuration, follow the details shown on the **LEFT HAND** side.

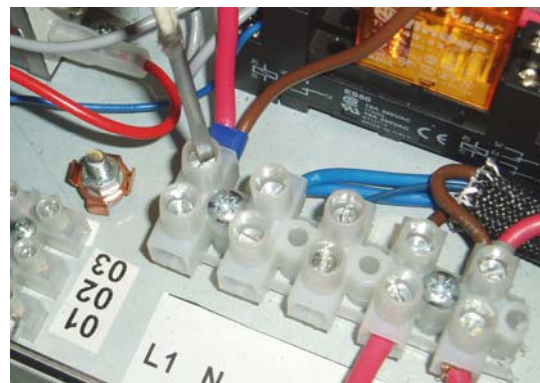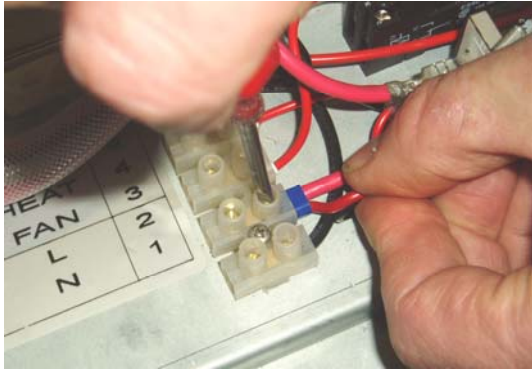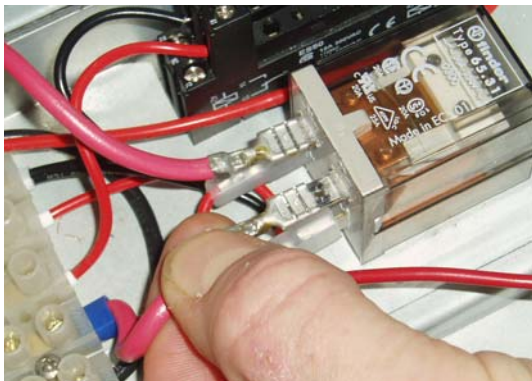For the details relating to the contractors terminal box configuration, follow the details shown on the **RIGHT HAND** side.

21.   Locate twin **RED** wire. Position **bootlace** into **terminal 2** and tighten
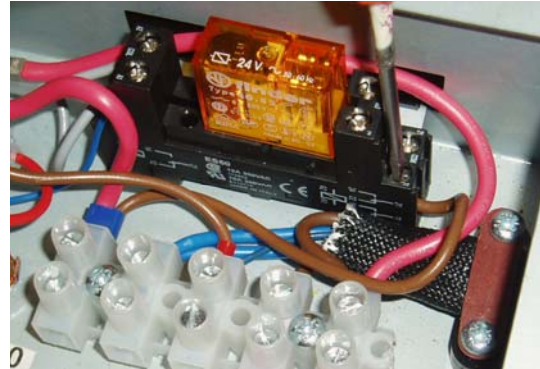

21.   Position and tighten other **BROWN** cable from **BLACK RELAY n.o. terminal 11**

22.   Push the spade connector onto top right hand **CLEAR RELAY terminal no. 22**

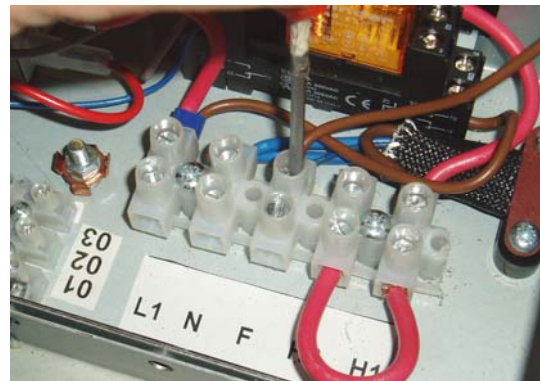22.   Locate single **BROWN** wire. Position **bootlace** into **terminal F** and tighten

23.   Position and tighten other **RED** cable end into **BLACK RELAY terminal 14**
24.   Carefully replace orange relay if removed
25.   Check all cables for tightness.
26.   Replace cover
27.   Re-install ceiling tile (if removed)
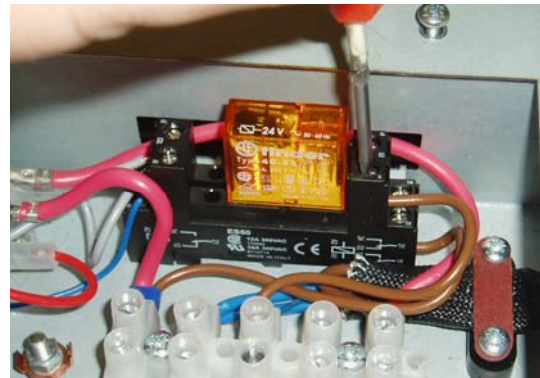28.   Re-instate power and check for operation

23.   Position and tighten other **BROWN** cable end into **BLACK RELAY terminal 14**
24.   Carefully replace orange relay if removed
25.   Check all cables for tightness.
26.   Replace cover
27.   Re-install ceiling tile (if removed)
28.   Re-instate power and check for operation