

TB101

Applies to models:

NV



Instruction for replacing a Pactrol MkIII/IV Multi-functional board for a Pactrol P25 Kit



General Information

The NV Gas Unit Heater was updated in 2006 to include the MkIII Pactrol Multi-functional pcb.

This board is no longer available as a spare and has been replaced with a Pactrol P25 controller mounted on a pre-wired base board.



fig.1 Pactrol MkIII & MkIV boards

This bulletin describes the parts required and procedures to be carried out when replacing the original Pactrol MkIII or MkIV to the Pactrol P25 controller.



fig.2 Pactrol P25 retrofit kit

Parts & tools required



NV0162100/P25/V2/KIT



Flat head screwdriver



Electrical screwdriver



8mm Nut runner

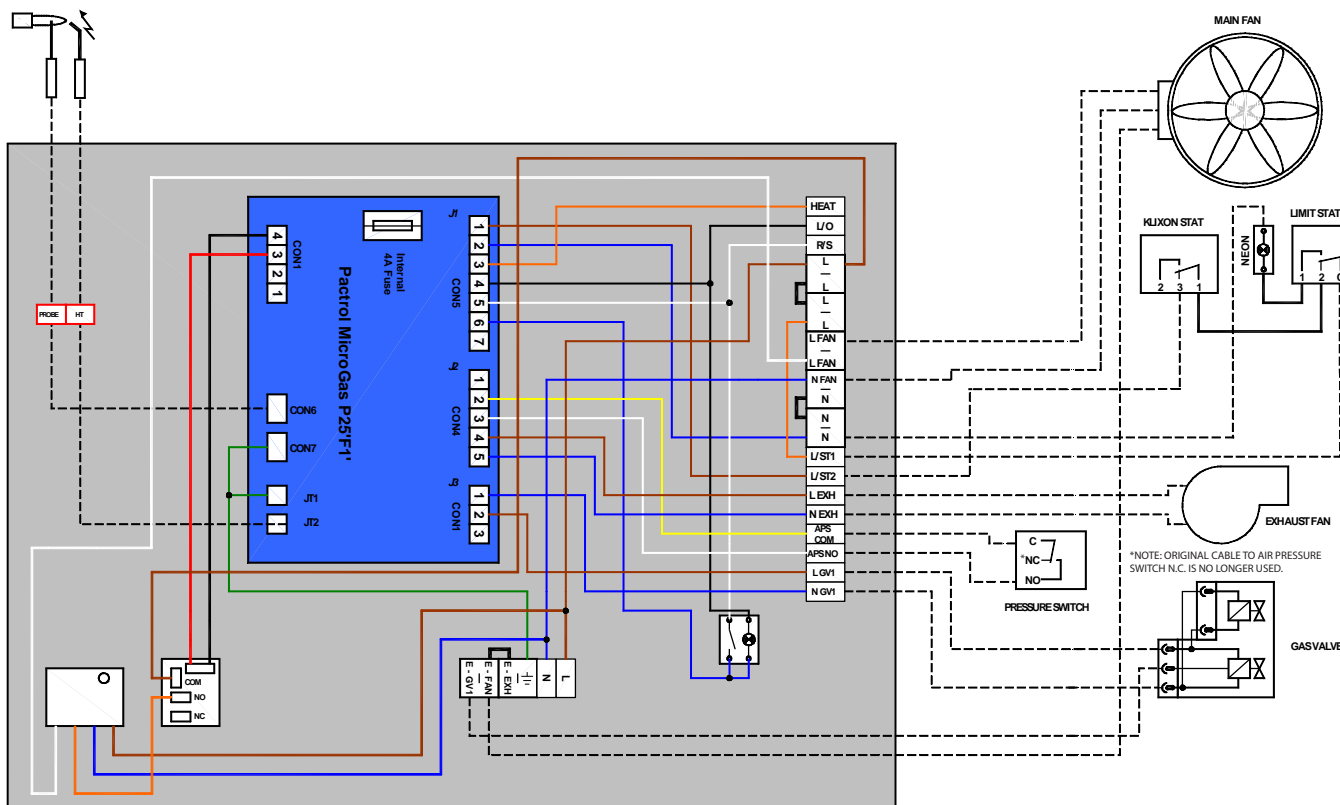


Scissors



Tape

Wiring Diagram



Procedure

Cut these tabs out to aid when replacing cables to new terminal strip



HEAT

L/O

R/S

L

L

L

L

L MAIN FAN

L MAIN FAN

N MAIN FAN

N



N

N

LIMIT STAT 1

LIMIT STAT 2

L EXH FAN

N EXH FAN

APS COMMON

APS NO

L GAS VLVE 1

N GAS VLVE 1

Note: The original cable to pressure switch N.C. is not required on this retrofit!



WARNING:

Isolate the mains supply and perform a safe isolation procedure on the supply terminals AND terminals 'HEAT', 'L/O', 'RESET' & 'L MAIN FAN' of the control panel, in accordance with HSE Guidance Note GS38.

1. Identify and mark the existing cables that are connected to the old circuit board. Cut out identification labels are attached to this document to aid this.



Note: The original APS N.C. cable is no longer required. Remove or make safe!

2. Disconnect the labelled cables and remove the old circuit board from the heater.
3. Mount the new panel either by drilling and self tapping, or by using self drilling fixings.
4. Connect the labelled cables to their matching terminals.

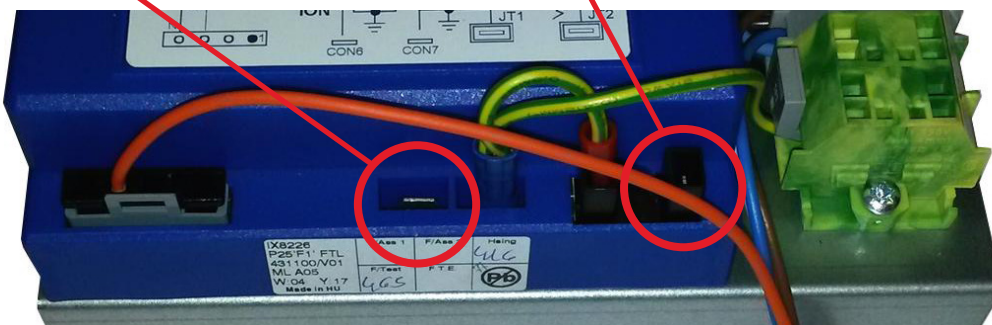


The terminals are opened by inserting a screwdriver into the square access hole and applying firm pressure. Ensure a good connection with a 'tug test'. If connected properly, the cables will be very secure.

5. Ensure a mains earth is connected to the appropriate green terminal.



6. Reconnect the Ignition HT lead into JT2 and the Rectification probe lead into CON6



Cut these tabs out to aid when replacing cables to new terminal strip

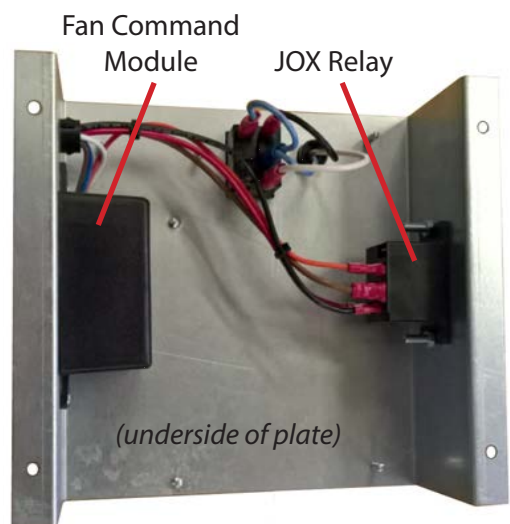
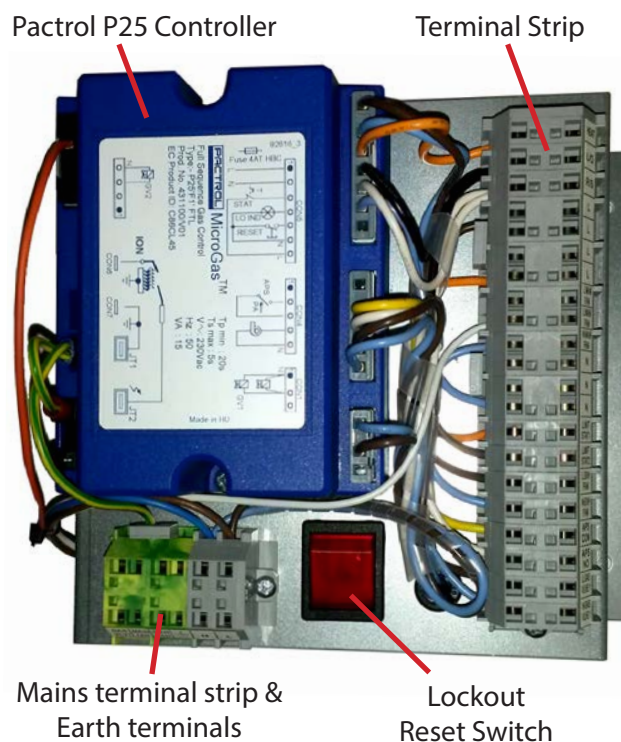


	<u>terminal description</u>
HEAT	Heat on circuit from controller
L/O	Lockout indication to controller
R/S	Lockout Reset from controller
L	Mains Live
L	Live
L	Live
L	Live
L MAIN FAN	Live cable to main fan
L MAIN FAN	Fan only circuit from controller
N MAIN FAN	Neutral cable to main fan
N	Mains Neutral
N	Neutral
N	Neutral
LIMIT STAT 1	Live out to limit stat
LIMIT STAT 2	Live return from limit stat
L EXH FAN	Live out to exhaust fan
N EXH FAN	Neutral out to exhaust fan
APS COMMON	Live circuit out to pressure switch
APS NO	Live return from pressure switch
L GAS VLVE 1	Live to gas valve
N GAS VLVE 1	Neutral to gas valve

The red rocker switch is the ignition lockout indicator and reset button. This will illuminate if the burner fails to fire after 5 ignition attempts. Press the button to reset.

Remote lockout indication and reset can be achieved via terminals L/O (230v) and R/S (reset to Neutral).

Parts Identification



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Every effort is made to ensure accuracy at time of going to press. However as part of continued product improvement, we reserve the right to alter specification without prior notice.