



Technical Note: NE189 Ticking Pump Relay Problem

For some reason, the pump operation on the NE189 fuse board (and a few others) is not simple! The fuse board DOES NOT simply switch on the 12V feed when you switch the pump on at the panel. Instead, it gives a permanent 12V live and switches the ground 'on demand'!

The problem is that the 'pump on' detect circuit is VERY sensitive. Any electrical connection across the two pump wires - or even a wet finger will cause the 'ticking'. The board is deciding the pump should be on, then suddenly realising it is not drawing enough current and turning it off and then realising it should be on and so on!

The usual cause of this problem is water in the pressure switch fitted to the pump. To check if it is this issue, simply remove one of the pump connections when it is 'ticking' and the ticking should stop. The usual fix for this is to either dry out the connections in the pump/pressure switch or, if you have a leak, then replace the whole pump or pressure switch.

We hope that this helps you to resolve your problem. If you find that this does not resolve your problem and/or you have other issues with your fuse board/control panel then please contact us as we have a vast experience of repairing these and other circuit boards.

If this free information has helped you then we would appreciate it if you would reward us by 'buying us a coffee' (or two!). You can do this simply by clicking here:

<https://www.buymeacoffee.com/apuljack>

If you have any questions regarding this matter then please do not hesitate to contact us on info@apuljackelectronics.co.uk or 01278 588 922.