

Johnson WPS 3.4 fresh water pump.

My fresh water pump started working intermittently and then failed completely. After stripping the pressure switch it was apparent that the switch was making an intermittent connection. As a temporary measure, we managed to get the switch to make contact and then left a tap open and switched the pump on and off at the switch panel. Provided the pressure never built up the switch would not activate. Fortunately the pressure switch is a very simple design and uses a standard electrical micro switch which cost €3 from Farnell electrical suppliers, plus next day delivery to France in our case

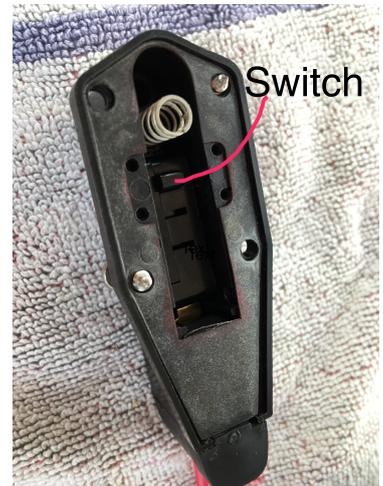
There is a tiny hole in the water outlet that connects to a silicon rubber diaphragm, it is this tiny hole that controls the differential on/off pressure (switch on at 1.7 bar and off at 2.8 bar). Don't make this hole bigger by poking with a pin. The diaphragm presses on a lever which has a spring that activates the switch. To ensure the hole was clear I ran the pump with the pressure switch and diaphragm removed and the taps turned off so there was a jet of water through the hole. (you need to hold switch or bridge across the terminals if is totally failed)



Bottom of pump with pressure switch.



Pressure switch removed.



Micro switch in housing



Rubber cable holder and switch.



Old and new switch

Remove the 4 screws to take pressure switch off, carefully remove rubber gasket, lever, spring and spring end cap. Slide rubber cable end housing up and switch should slide up with it. The exact switch number is the V-15-1C25-K on side of the switch; my replacement had a slightly different number but the same three contacts and the same rating. Unsolder wires and resolder to new switch. Re-assemble in reverse order.