

## IWS Flood and Drain fault verification aid

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**Introduction:-** This document is not intended to be fully comprehensive but is designed to act as an aid for retail staff to check brains and timers for faults in the presence of the customer to alleviate the cost and inconvenience to the shop and customer of returning items which may have nothing wrong with them. If you have questions at any time, please call IWS for further assistance. Up to date contact details can be found at <http://www.iwssystems.co.uk>

Please bear in mind that there are no user serviceable parts within either the brain or timer and that any user opening either up risks an electrical shock and invalidating their warranty.

- 1) Connect the Timer to the Brain using the 7 pin connector as detailed in the original set up instructions
- 2) If at all possible connect a Maxijet MJ1000 pump to the three pin connector, where the tank pump would normally connect. This is essential if the customer is reporting that the system is not feeding.

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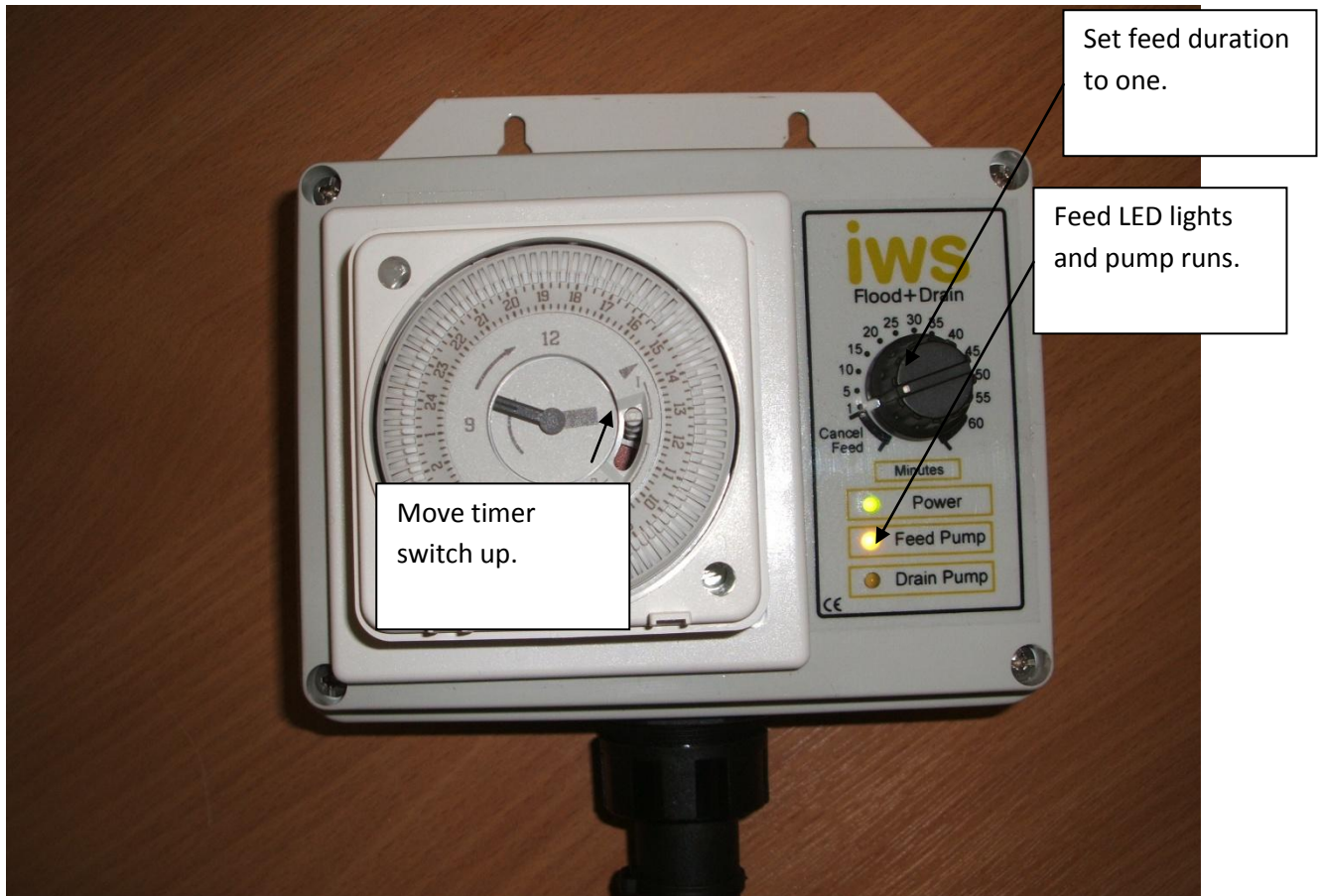
- 3) Plug the mains plug into a mains socket and switch power on.

At this point the Green power LED should light on the timer as shown below. This shows that the timer is getting power from the brain. If this LED does not light then replace the 5 amp fuse in the mains plug with a known good 5 amp fuse and try again. If the LED still does not light then call IWS for a returns number and state that the power LED is not lighting. You will need to return both the brain and timer to IWS. If the LED lights correctly then proceed to the next step.



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- 4) Now set the feed duration to 1 and move the switch on the mechanical timer from the bottom position (shown above) to the upper position as shown below. This should trigger a feed cycle for approximately 1 minute. This is shown by the feed LED lighting and the pump (if you have connected one) running. Ensure the pump is running correctly and is not sputtering.



During the 1 minute feed, lift and hold the upper float valve in the brain by hand. This should cut off the power to the feed pump and switch off the feed LED. Once you have verified this happens then lift and hold the lower float valve with your other hand, this should have no effect. Finally, drop both float valves. As long as you are still within the 1 minute feed cycle then the feed LED should come back on after a few seconds and the pump should start again. They should both switch off approximately 1 minute after you initially switched the switch on the mechanical timer. If all of this is ok then proceed to the next step. If not, call IWS for further assistance.

- 5) Now move the switch on the mechanical timer to the middle position. Push out some segments on the mechanical timer and manually rotate the mechanical timer mechanism to engage the timer as would happen in normal operation. This again should kick off a 1 minute feed cycle. After a few seconds turn the duration knob to cancel feed and the feed cycle should stop. If all of this is ok then proceed to the next step. If not, call IWS for further assistance.

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- 6) With the feed cycle cancelled, raise and hold the lower float valve in the brain by hand. After a few seconds the pump in the brain should switch on and the drain LED on the timer should light as shown below. Again listen for the pump functioning correctly and not sputtering. If all of this is ok then drop the float valve and after a few seconds the pump should stop and the LED should go out. If all of this is ok, proceed to the next step. If not, call IWS for further assistance.



- 7) As a final check, ensure that the timer mechanism itself is keeping time correctly. In other words, after five minutes the hands on the timer should have advanced 5 minutes as the hands on a clock would. If everything has functioned correctly up until this point then the brain and timer is functioning correctly. If the customer is still reporting a problem with their system please call IWS for further information.