

Maintenance and trouble shooting

The system should be flushed through with clean water after use.

The motor must be kept dry, avoid damage to wiring and pipe work.

If you suspect a blockage in the system the following components should be cleaned.

Cleaning the Strainer

The strainer should be cleaned at the end of each season or if a blockage is suspected.

Unscrewing the clear bowl and removed the filter gauze.

Clean the gauze, body and bowl in clean water

Re-assemble and re-fit.

Flow Sensor Cleaning

Remove the pump chamber cover .

Undo the clips each side of the flow sensor and remove pipes. Do not strain the cable.

Separate the two halves of the sensor body by removing the 4 socket cap screws.

Although robust when separated the great care should be taken with the flow Impeller

Gently lift out the impeller and thoroughly clean the in-put and out-put ports of the internal chamber.

Once clean, reassemble, Note that the impeller has 3 magnets moulded into it. One side the faces a slightly bigger diameter. This is the side that goes down onto the half with the cable. Make sure the impeller seats into its centre bearing in both top and bottom halves.

Check that the impeller spins by blowing into the inlet side of the flow sensor. You should hear it spin. If it does refit the 4 M3 screws and nuts and gently tighten. Check again that the impeller spins as before.

At no time should an air line be used on the flow sensor!

Refit the pipes and tighten jubilee clips.

Refit cover by hooking the tab on the top over the bracket. Angle the cover and push over the lower bulkhead. Refit screws.

Control box.

The control box has a 10amp fuse.



Fault finding

If the control unit appears to working but pump is not running.

Unplug the power and pump leads and connect them together to check the pump.

(If the pump runs when this is done but not when the control box is connected it is possible to carry on using the applicator in this mode. The pump will run at maximum out put so an adjustment to the additive mix will be necessary to achieve the correct application rate.)

If the pump runs at full or fixed speed regardless of flow setting.

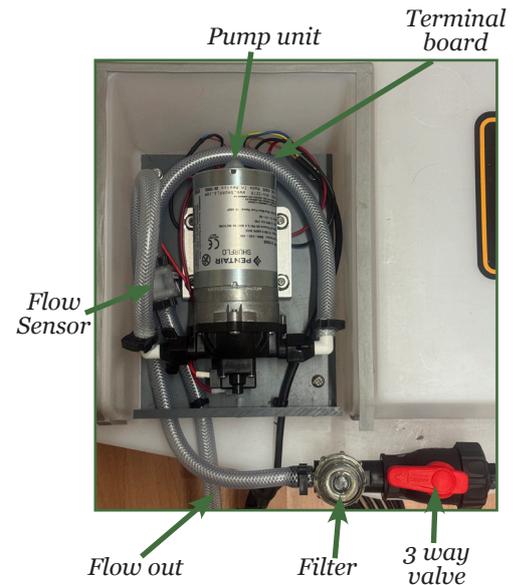
Clean the flow sensor and check the cable from the applicator to control box for any signs of damage.

If "CHECK FLOW" is displayed frequently it could mean there is a fault in the system. Check the continuity of the cable particularly the Green/Yellow wire from the tag board in the applicator to the 3 pin plug at the control box.

Erratic operation and Display light flickers.

Check power supply is adequate.

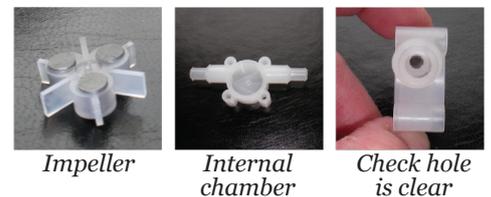
The Dflow+ control box has a Diagnostic Mode that can be useful for fault finding in the event of a problem with the applicator. Use this to check for sensor pulses voltage to the control box



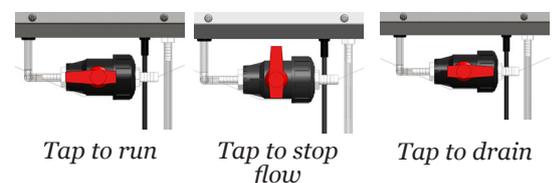
Pump Strainer



Flow sensor



3 way valve tap positions

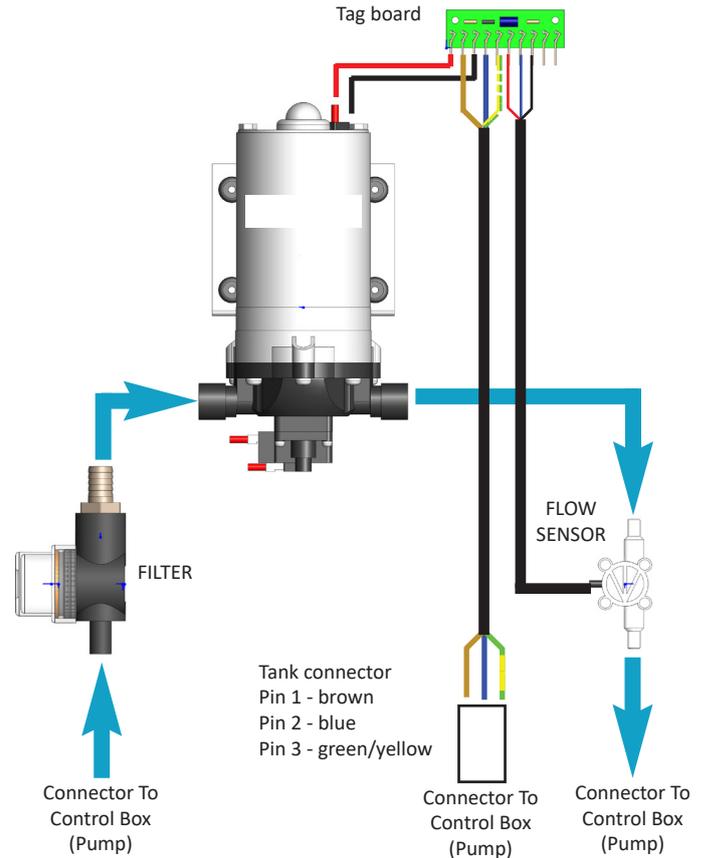
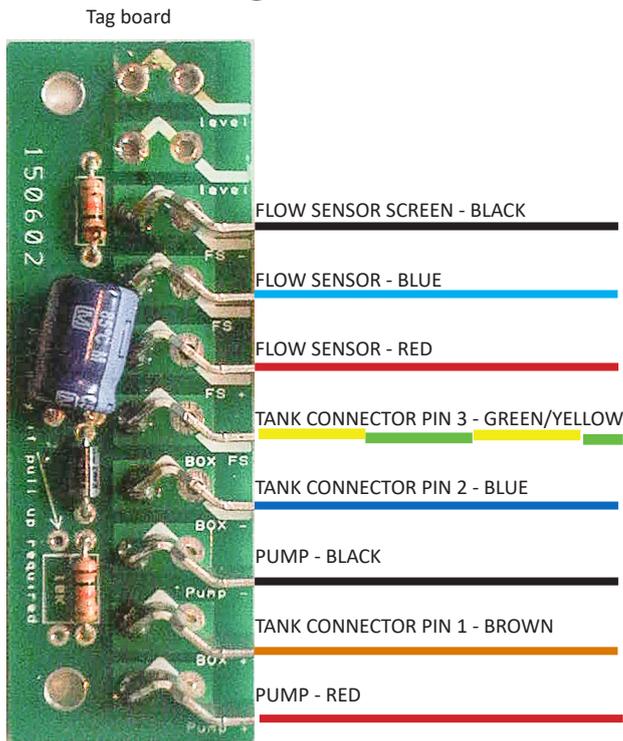


Pump test

Connect the power and pump leads together to check if the pump runs independently of the control unit.



Connection diagram



Fault	Diagnosis	Remedy
Motor will not run	Wired incorrectly connected or damaged	Check power connection Check control box wires.
	Fuse blow	Replace fuse – check for reasons for blown fuse before restarting.
Motor runs but no output	Check 3 way valve tap is in the wrong position	Adjust tap
	Defective motor	Contact Selmech Supplies.
	Pump leads wrongly connected	Connect leads correctly
	Jet blocked	Clean jet
	Tubing kinked	Remove kink and re-route tubing troubleshooting
	Strainer blocked	Clean Strainer
	Jet too small	Replace with larger jet
	Tube split	Replace tube
Output seems inaccurate	Barrel empty	Fill barrel or replace
"CHECK FLOW" displayed constantly	Wrong application rate	Re-calibrate
	Control box settings outside of limits	Refer to Warning message - LIMIT in user manual
	Flow sensor blocked	Refer to Flow Sensor Cleaning section
	Damaged or broken cable	Check the continuity of the cable particularly the Green/Yellow wire from the tag board in the applicator to the 3 pin plug at the control box. Use the "Diagnostic Mode" to check if pulses are being detected from the flow sensor when the pump is running.
Output is pulsing on and off	Low voltage	Check supply voltage is good
	Pressure too high causing the pumps pressure switch to cut in. Jets too small.	Fit lager spray jets
One nozzle is being favoured over another	Pressure too low to open both jet body check valves	Fit smaller jets in jet body to increase the pressure