

## Fault Diagnosis

If you have a problem with the pump not running or not running as normal the following information may help diagnose the problem. Always make sure it is connected as per the user manual and check all connections, cables and pipework for damage.

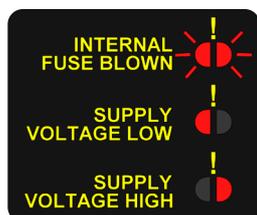
The control box connection should be made so that the cable from the power goes directly to the control box 12V/DC SUPPLY side and the cable to the applicator is connected to APPLICATOR side. The negative (BLACK) cable should not be connected to ground as it is this cable that controls the speed of the motor.

Check tubing for any damage of kinks as this will restrict the flow.

If the pump is siphoning an anti siphoning solenoid assembly should be used to prevent this.

## Control Box Fault indicator

The control box fault indicator will alert you if there is a problem with the supply or if the internal fuse is blown.



If the internal fuse has blown check for reasons why this may have happened before replacing and turning the control box on. ! **Never use a higher fuse than 15 Amps.**

If the supply voltage is low check your supply and all connections. ! **Could be caused by inadequate cable or poor connections.**

If the supply voltage is high. ! Could be caused by faulty tractor regulator or unregulated power supply.



Fault	Diagnosis	Remedy
Motor will not run	Fuse blown	Check the internal control box fuse and for reasons why it has blown before replacing.
	Supply Low voltage indicator illuminated	Check supply and wiring connections
	Wires incorrectly connected or damaged	Check the wiring is connected correctly
	Seized or damaged motor	Contact Selmech
Motor runs but poor or no output	Pump leads incorrectly connected or loose dirty connections	Check connections. Connect leads correctly.
	Tubing kinked or split	Check tubing/remove kink and re-route tubing
	Jet blocked or wrong size jet	Clean jet or fit bigger jet
	Foot filter blocked	Clean foot filter gauze
	Barrel level low or empty	Refill barrel
	Pump head worn or damaged	A new gear pump head can be fitted contact Selmech
	Motor worn and not running fast enough	A new motor can be fitted contact Selmech
	If the pump has been run dry an air lock could have formed in the pipework	Remove any restriction like jets or flowmeters to allow the air to escape when re running the pump.
Motor runs flat out and does not respond to the speed controller	Control box negative shorting to ground	Check cabling and control box mounting for any possible connection to the ground of the equipment it is mounted on and isolate.
Pump siphons	If the tank is higher than the application point siphoning will occur	Fit an anti siphon solenoid valve