





## Maintenance

As with any silage inoculant applicator, the tank and tubing should be cleaned at frequent intervals to prevent microorganisms (inoculant or contaminants) growing inside the tank or tubing. Ideally the whole system should be washed with clean water between jobs, taking care to clean under the tank rim and flushing the tubing well. If microbial growth does occur the tank should be scrubbed with hot, soapy water then the whole system flushed thoroughly with clean water so there is no residual soap.

**Draining inoculant from the tank for refrigeration:** Use 'reverse cleaning mode' to flush any inoculant in the system back into the tank then drain the tank contents into suitable clean containers, eg original bottles.

**Flushing the system:** Rinse the inside of the tank thoroughly with clean water and drain off, taking care to clean under the rim. Close the drain tap and put some more clean water into tank, turn the 3-way valve to the tubing outlet and run the pump in 'forward cleaning mode' to flush the system. You may need more than one cycle. Open the tank drain to release any water remaining in the tank.

**Pump:** Check the pump and inside of the pump box are clean and dry.

**Out of use:** If the pump is not to be used for a prolonged period, remove the rubber tube and holder from inside the pump to prevent the tube becoming constricted due to prolonged compression at the contact points (see below). Alternatively, once a week remove the clear pump cover and red disc and manually turn the central hub to a new position.

**Removing the tube holder from the pump:** Remove the clear cover and the red disc then slide out the orange tube holder. Turn the centre hub clockwise until it resembles the letter 'D'. Gently ease the tube out at the left-hand side then rotate the central hub clockwise to gradually release the rest.

**Re-inserting the tube holder into the pump:** Turn the centre hub so it resembles the letter 'D' then slide in the orange plastic holder. Press the tube down into place on the left-hand side then gently press the rest of the tube in place while rotating the hub clockwise. Replace the red disc, taking note of the alignment underneath, and the plastic cover.

**Replacing the pump tube:** Make sure the tube is not twisted – the two red marks on the tube should both be facing the same way when attached.

**End of season:** 1) Wash the whole system thoroughly with clean water and drain off; 2) Leave tank drain open during storage; 3) Remove the pump tube; 4) Check the condition of the nozzle.

**Start of season:** 1) Check all tubing for damage; 2) We recommend you fit a new pump tube – a spare is supplied with the kit; 3) Check the condition of the nozzle and make sure it is correctly positioned in the chute; 4) Run some water through the system and test the control box and pump are both functioning correctly.

## Troubleshooting

Problem	Solution
Pump error alert on control box	Check connections and for blockages. Check control box configuration (Cfg Dev) correctly set for +/- table sensor (1 <sup>st</sup> digit). If table sensor present, table must be down.
Pump working but no inoculant flowing	Check tap under tank is open. Check for constrictions or breaks in tubing and blockages (including in pump).
Control box power light on but nothing showing on LCD screen	Try switching the power source off and on again, ie switch harvester ignition off then on.
Control box not working	Is there power to the control box (green LED)? If not, check connections and fuse (fuse holder on end of control box).
Power to control box but buttons not responding	It must be switched 'ON' (green LED on continuously). Try switching it off completely and back on again.
Cleaning mode not working	If table sensor present, table must be up. If no sensor, make sure the pump is off.
When fill tank and turn on control box, the tank empty alert comes on	The low level sensor has become stuck as a result of the system not being flushed with clean water after use. Drain the inoculant from the tank and wash through with a strong jet of water. If that does not work, unscrew the LLI and flush through from the other side. This should free the cylinder that rides up and down the spindle inside the low level indicator.
Counter not working properly	Was the reset confirmed before returning to harvesting mode? Reset the counter to zero again and make sure the tick button is pressed to confirm.