



*Helping our customers prepare for a smoother seeding experience.*

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## IMPORTANT SAFETY INSTRUCTIONS

### **WARNING:**

- Always wear protective gloves, eyewear and clothing when dealing with liquid fertilizers and other liquid agricultural products.
- Do not disconnect any hose lines while the pump is running.
- Ensure power is switched off or disconnected when connecting or disconnecting any electrical components of the system.
- Always ensure the tank lid or a vent/overflow valve is open to allow air to escape when filling product tank.

1.



### **CHECK PUMP OIL LEVELS**

- Check pump oil levels in reservoirs as shown below. If oil level is low, top up with SAE 30 oil. Discoloured oil or loss of oil indicates a problem.
- Refer to Bertolini Pump Manual for maintenance instructions.
- Frequency – daily when system is in operation.

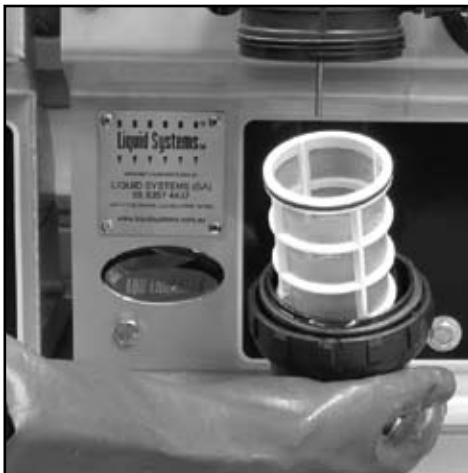
2.



### **CHECK PUMP CHECK VALVES & DIAPHRAGMS**

- Check pump diaphragms for any cracks and replace.
- Check valves & O-rings for wear.
- Make sure you have spares on hand to minimise potential down time.
- Refer to Bertolini Pump Manual for maintenance instructions.

3.



## CHECK & CLEAN SUCTION FILTER

1. Remove yellow end cap. Catch any escaping liquid in a bucket.
2. Unscrew filter bowl from body.
3. Inspect and clean screen. Replace screen if damaged.
4. Check seating of O ring.
5. Replace screen and screw bowl back into place
6. Replace end cap.

- Frequency - twice daily when system is in operation.
- Refer to the replacement parts section of your manual.
- Make sure you have a spare screen on hand to minimise potential down time.



**CAUTION:** It is important when reassembling the suction filter that the screen bowl assembly be re-located correctly to the filter body. The pin location is crucial to operation of the filter. The pin activates a valve that will prevent the pump from sucking liquid if it is not seated correctly.



**WARNING:** Liquid will escape from the filter during this process. Ensure suitable protective gloves and clothing are worn when performing this task.

4.



## CHECK & CLEAN INDUCTION FILTER

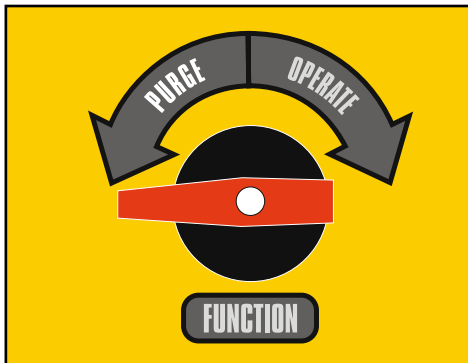
1. Unscrew filter bowl from body.
2. Inspect and clean/rinse screen. Replace screen if damaged.
4. Check seating of O ring.
5. Replace screen and screw bowl back into place
6. Apply Vaseline to thread to improve seal and make task easier.

- Frequency – twice daily when system is in operation.
- Refer to the replacement parts section of your manual.
- Make sure you have a spare screen on hand to minimise potential down time.



**WARNING:** Liquid will escape from the filter during this process. Ensure suitable protective gloves and clothing are worn when performing this task.

5.



## FLUSH AND TEST WHOLE SYSTEM WITH CLEAN WATER (STATIC TEST)

To do a decent Flush and Test of the whole system including the Stacker Distribution outlets, we recommend filling the product tank with water, to provide extended flush time.

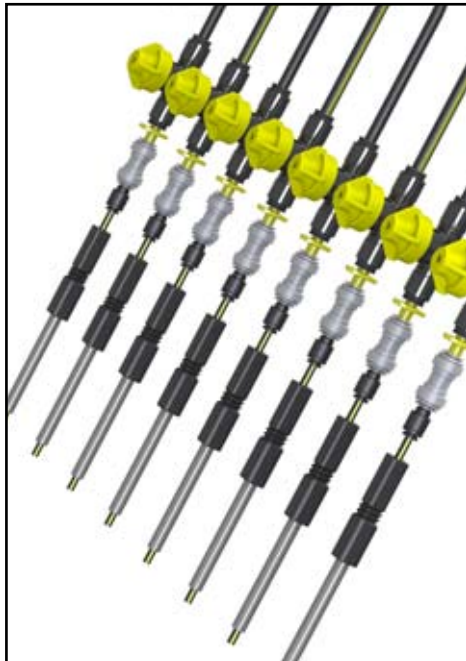
1. Switch source selector valve to “Product” and function selector valve to “Purge” on the front of the module.
2. Run system statically from your Precision Ag display by using an appropriate test function (e.g. Nozzle Flow Check in Greenstar) or entering a manual ground speed.
  - Use a ground speed and application rate that creates a system pressure of around 5 bar or 73 psi .
  - Start pump just prior to initiating flow on screen.

3. Next do Checklist Steps No 6 & No 7.



**CAUTION:** If using this system with Section Control, ensure all sections are switched on before flushing otherwise water will flow back into the product tank.

6.



## CHECK THAT ALL OUTLETS ARE RUNNING-no blockages

1. Follow Checklist Step No 5. (Flush & Test whole System)
  2. Run clean water through system for 5 minutes.
  3. Re-run System Flush and Test (Checklist No 5.) until all outlets have been checked and cleared.
4. Next Do Checklist Steps No 7. (over the page)

7.



### CHECK THAT ALL CHECK VALVES ARE WORKING

1. Follow Checklist Step No 5. (Flush & Test whole System)
2. If check valves aren't functioning correctly, remove cap on check valve.
3. Clean cap thoroughly to remove any dirt build up.
4. Check that the valve diaphragm is intact and replace if damaged.
5. If valve spring is not functioning correctly, replace cap.
6. Re-run Nozzle Check test until all outlets have been checked and cleared.
7. Make sure all Distribution System outlets are delivering an even unbroken stream. Any further blockages refer to Stacker Distribution System Manual for Instructions.

< **TIP:** This Season get "The BOOT" - protect your Check Valves from the dust & dirt of seeding and spraying.

*An Exclusive Liquid Systems Product.*

8.



### MANUALS SUPPLIED

1. Read Pre-operational Calibration and Testing, and Operation sections of manual.
2. If you have any issues refer to the Maintenance and Trouble Shooting sections of your Module and Stacker Distribution Manuals.

9.



### ALWAYS PERFORM BUCKET TEST WHEN USING NEW LIQUIDS

1. Before trying any new combination of liquids, do a bucket test to check for compatibility issues.

**⚠ WARNING:** Use of phosphoric acid with this equipment will void the warranty.

10.



### ORDER YOUR REPLACEMENT PARTS

1. Order your Replacement parts through your local Dealer or contact us directly on (08) 8357 4437.



### END OF SEEDING

When planting and fertilising operation is complete.

1. Drain Product Tank
2. Rinse Product Tank with clean water
3. Flush the module and Distribution System with clean water.
4. Drain Clean Water Tank
5. In climates where temperatures drop below freezing, fill Clean Water Tank with pre-mixed automotive antifreeze and perform a static System Flush.