Horticultural Spraying Specialists
Sprayer Health Check©

Horticultural Spraying Specialists™
helping growers make better decisions

Key items to check	What we offer – health check
Flowmeter	⇒ Physical check for wear, buildup of residue ⇒ Flow check – compare actual flow to reading on controller or monitor. Adjust as required
Nozzles – random check	⇒ Test a selection of roughly 10% of total nozzles and flow check to see if they are true to nozzle specifications. If worn by more than 10% of flow, we recommend replacing the whole lot
Filter check	⇒ Inspect all filters (suction and pressure) for splits, tears and buildup of residue. Lubricate O-rings, check fittings
Nozzle holder check	⇒ Inspect nozzle holders to see if residue is building up inside – this is a common problem. We can provide a cleaning solution to put through the sprayer
Manual taps and valves	⇒ Check they are working properly, disassemble & lubricate if needed
Electric valves	⇒ Physical check they are operating as required. Inspect wiring for buildup of oxidised materials on all connections. Clean and lubricate connections. This will help negate breakdown issues during the season when it's the last thing you need
Looms	⇒ Inspect all connections and clean them up with commercial grade products. Loose connections identified and repaired. Added protectant sealant applied if needed.
Hoses	⇒ All spray hoses inspected – including taking off the connections to a sample of fittings on the machine and inspect. Rub points, cracks, taped up sections – all are a failure waiting to happen. Hoses replaced or supplied for replacement as required. ⇒ Old hoses can "delaminate" inside – it's hard to find this issue unless a hose is removed, cut open and inspected. If the spray hoses are old, it's worth sacrificing one hose to do this inspection.
Grease points	⇒ Check all points on the sprayer that should be greased and provide a chart, so it gets done each spray round
PTO shaft	⇒ Inspect any PTO used on the machine for wear, that it has been greased, and that the covers and chains are in place. We also check the length is correct. WorkSafe will be on to you if your machinery is unsafe, and the risk to your staff is not worth it.
Paint and 1alvanizing	⇒ We inspect all steelwork for cracks, flaking paint, corrosion and damage. Some things may not be easily fixed, but at least knowing what is likely to need attention in coming seasons is a good start. Recommendations are provided for any fixes deemed necessary
Wheel bearings	⇒ These always fail halfway down a row – we inspect, grease, and if needed can advise if they should be replaced
Spray tank	⇒ Cracks, leaks and splits are identified. We recommend you call in the experts to get any problems fixed. ⇒ A cleaning schedule is provided to help you or your staff keep your gear in good order.
Spray controls	⇒ Whether they are manual, basic electric or electronic, a pre-season check is vital. Broken switches identified – we can assist with getting

	them repaired. A good general check over of connections, wiring & mounts is provided. ⇒ All control systems will likely have a manual relief valve in the system or line. These are often overlooked. They get worn, gummed up and stop working in the key function of regulating flow. We can repair them or replace them if they are not working 100%
Agitators	⇒ Most sprayers have venturi agitators fitted. Over time, the centre "jet" which creates the venturi effect, can block or blow out completely. They can be replaced. We inspect, repair or replace.
Main pivot points and lift points	⇒ Such things as self-steering drawbars or over-row booms are what we call "main pivot points". These MUST be in good working order for reasons of safety and so the operators can go about the job of spraying with confidence. We will inspect & advise if engineering repairs are needed or if they just need greasing and/or adjusting. ⇒ Lift points refer to terracing lifts – these need to slide freely
Parking jack	⇒ This is often overlooked. If the parking jack is tired, broken or missing, we can replace it.
Pump	⇒ A sprayer won't perform if the spray pump is worn out. This the centre of your sprayers' performance. If you don't log the hours your pump has done, start this season. ⇒ If you know the diaphragms & valves haven't had attention for two seasons, now is the time to replace them – which we can arrange. ⇒ If your centrifugal pump hasn't had a rebuild for two seasons, again we can arrange repair or replacement ⇒ Alternatively, you can invest in a replacement pump to have "on the shelf" when yours gives its last rotation ⇒ We can supply a check list for pump maintenance
Lids & lid strainers	⇒ Basic, but we inspect these items. If damaged, leaking or broken – we can replace
Air ducting	⇒ On some brands of sprayers, air ducting hose is used. If this is worn, split or degraded, it may be worth replacing. We can usually source the right size for replacement.
Fans	⇒ If the machine has axial or centrifugal air fans, these are inspected. We provide a maintenance check list to tick off each season. ⇒ If repairs are required, we can arrange this, or you can use your local machinery dealer.
Tyres and wheels	⇒ Often overlooked, these are inspected for signs of corrosion, and in the case of the tyres, wear and tear.
Hydraulics	⇒ A thorough visual check is done. Hoses can be expensive, but a burst hose is more expensive. Arrangements can be made for repairs or replacement hoses.
FAQ's: What does it cost? When is it best to have this done?	⇒ Q. How long will this take? ⇒ A. Depends on the machine complexity. Allow 4-8 hours ⇒ A. Contact us and we can provide an estimate based on information provided ⇒ A. The sooner the better, prior to the season commencing