



# TROUBLESHOOTING GUIDE

AUSTRALIAN BUILT FOR TOUGH AUSTRALIAN CONDITIONS

Most problems can be found quickly by checking the following:

What does the monitor display:

- Speed
- Hectares
- L/min

Can you spray in manual mode (+ & - buttons increase & decrease pressure)?

Can you manually adjust the pressure & flow?

Are the fuses good?

Check your controller settings are correct.

Check the filters are clean & briefly start pump to check flow.

| ISSUE       | ITEMS TO CHECK   |
|-------------|--|
| No Pressure | <p>Check your filters</p> <p>Check the Reg Valve has power</p> <p>Check Reg Valve is opening &amp; closing by either listening or watching.</p> <p>Apply a separate 12v DC power source to Reg Valve wires. This will isolate the valve from the controller &amp; cables.</p> <p>Disconnect Reg Valve power for 30 secs as it has a reset fuse built in.</p> <p>Check Reg Valve is working in the correct direction, if not reverse the polarity of red &amp; black wires eg red to black.</p> <p>If you remove the reg valve motor from shaft, make sure the paint pen marks on the shaft are aligned when in the off position.</p> |
| No Speed    | <p>Check speed sensor connectors &amp; cable for cuts or breaks.</p> <p>Check speed sensor is plugged in.</p> <p>Check you are getting a pulse in the signal wire.</p> <p>Check pins in the deutsch plug are not pushed out.</p> <p>For wheel sensors:</p> <p>Check magnets are in place</p> <p>Check the LED light in the end of the sensor when the magnet passes.</p> <p>Check the sensor is the correct distance from the magnets 10—20mm</p>  |
| No Hectares | <p>See above as for speed</p> <p>Check width setting in controller</p>   |
| No L/Min    | <p>Check pump is pumping liquid</p> <p>Check flow meter connectors and cable for cuts etc</p> <p>Check flow meter is not stuck or restricted</p> <p>Flush flow meter with clean water, it should spin freely when blown through.</p> <p>Check pins in deutsch plug are not pushed out.</p> <p>Teejet 801 Flow Meters:</p> <p>Turn on spray controller, a green LED light should appear on the flow sensor to indicate power. An orange LED should also appear to indicate when flow is going out nozzles.</p> <p>Check reg valve is working in the correct direction.</p>  |

VERSION 2012.1



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| ISSUE  | ITEMS TO CHECK   |
|--|--|
| Tank Output Different To What Has Been Sprayed Out   | <p>If controller is saying too high—increase flow meter calibration by that %</p> <p>If controller is saying too low—decrease flow meter calibration by that %</p> <p>Default calibration for the Teejet 801 is 82—start with this number and adjust as above.</p>   |
| Cant Adjust Flow Manually  | <p>Check Reg Valve has power</p> <p>Check Reg Valve is opening &amp; closing by either listening or watching. Apply separate 12v DC power source to reg valve wires. This will isolate from controller &amp; cables.</p> <p>Disconnect reg valve power for 30 secs as it has a reset fuse built in. Reverse the polarity of red &amp; black wires on reg valve eg red to black. If you removed the reg valve motor from the shaft, make sure the paint marks are aligned when in the off position.</p> <p>Check pins in deutsch plug are not pushed out.</p> |
| Spraying Stops While In Auto Mode  | <p>Check flow meter is not stuck or stalled. The flow meter might be stalled due to reg valve shutting.</p> <p>Check reg valve console settings are set to inline or throttling, not bypass.</p>   |
| Application Rate Oscillates  | <p>Check all controller values are correct.</p> <p>Check Reg Valve motor is correctly aligned with the paint pen mark on the shaft of the reg valve (when aligned the motor should be in the off position).</p> <p>Decrease the reg valve speed in the controller.</p>   |
| Application Rate Oscillates with only 1 section of boom on or when connected to a planter or shielded sprayer. | <p>Teejet 801 flow meters wont regulate below 9.5L/min.</p> <p>All low flow applications need to be done in manual mode.</p>   |
| Flow Drops Off Whilst Spraying   | <p>Check for blocked filters or delivery hose.</p> <p>Check reg valve is opening &amp; closing by watching or listening.</p>   |
| Tank 3/4 Empty & Cant Maintain Pressure  | <p>Check the agitation tap is not too far open causing frothing in the tank making the pump suck air &amp; water.</p>  |
| Hypro Pump Runs For A Few Seconds Then Stops   | <p>Tractor hydraulics are on a timer, adjust to a continuous setting.</p> <p>Case—set timer to 0.</p> <p>JD—set time to C.</p>   |



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| ISSUE                                | ITEMS TO CHECK   |
|--------------------------------------|--|
| Not Regulating in Auto Mode          | <p>Ensure controller is in Auto Mode.</p> <p>Check speed sensor</p> <p>Check regulating valve</p> <p>If you are using 1 or 2 sections and going slow, some flow meters wont operate below 9.5L/min. You might have to operate in manual mode.</p>  |
| Console wont turn on, it just clicks | <p>Dead short in electrical cables</p> <p>Disconnect sensor cables to isolate short.</p>   |
| Other Electrical Faults              | <p>Check 15 amp fuse at battery</p> <p>Ball valves have an internal resettable fuse, disconnect all three wires for 30 sec</p> <p>Check wiring harness for cuts or breaks.</p> <p>Check pins in deutsch plugs</p> <p>Make sure settings in controller are correct</p>  |
| Hydraulic Functions                  | <p>Ensure hydraulics are connected to the correct port.</p> <p>Ensure Hypro is connected to a free flow return.</p> <p>Wiring plugs on solenoid valves (Hirschmann plug) can be swapped from one to another to determine if fault is hydraulic or electrical.</p> <p>Check if power is getting to Hirschmann plug with a multimeter.</p> <p>Check for a quiet click when solenoid is activated.</p> <p>If solenoid is faulty, it can be swapped with another.</p> <p>Hydraulic function can be activated manually by pushing a small screwdriver into the poppet on either end of spool valve in the middle of the cap. This will manually open or close the solenoid valve.</p> |