

Rubicon Pre-Delivery Checklist

Customer Name	
Date	
Hardi Aus S/N	
Chassis S/N	
Model of Sprayer	
Engine S/N	
ACE Pump S/N	
ARAG Pump S/N	
SUPRAY Pump S/N	
Type of Boom	
Boom S/N	
Display S/N	
Flow Meter S/N	
Flow Meter PPU	
True Tank Contents	
Warranty number	

Machine Special Requirements / Information

Number of nozzles per section																	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

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Cab Checklist

Items to check	Checked	Initial	Notes
Check in the cab or behind radiator for the following:			
Rubicon operator's manual			
Cummins engine manual			
Spray technique			
Nozzle disc			
Display manuals (X35 or Mueller)			
Norac manual (x2 if fitted.)			
Radio manual			
Warranty papers including annexure			Warranty Number:
Camera manual			
USB drive			
2 x rotating beacons			
1 x Barrier oil			
2 x Boom filters and suction filter in chem hopper			
1 x Waeco cooler			
1 x Yellow spanner			
1 x Puck adjuster tool			
3 x Norac foam pads (if Norac fitted)			
2 x 3" cap and 1 x 3" hose tail			
2 x 2" cap and 1 x 2" hose tail			
1 or 2 x 1" cap and 1 x 1" hose tail			
2 x hydraulic valve handle (under seat)			
1 x hand gun and hose connector			
1 x Chemical suction hose			
Check the operation of the following:			
Check park/low/high beam lights			
Check front field lights			
Check rear field lights			
Check spot lights			
Check interior lights			
Check under boom lights			
Check clearance lights on boom tips			
Check fence-jet lights on boom tips			
Check workstation lights			
Check engine bay light			
Check platform lights (both switches)			
Check indicators			
Check hazard lights			
Check horn			
Check steering column functions			
Check seat adjusters			
Check seat belt			
Check armrest button powers up Display, F1, F2 & Norac			
Check switches on armrest for illumination and operation			
Check brake pedal operation			
Check foot throttle operation			

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Cab / Display Checklist

Items to check	Checked	Initial	Notes
Check park brake operation			
Check hydrostat handle for correct operation			
Check reverse alarm operates			
Check 4WS functions operate correctly – if fitted			
Check 4WS return to centre – if fitted			
Check wiper operation			
Check window washer operation			
Check all 3 rotating beacons operate			
Check aircon switches and functions			
Check window shade blinds			
Check radio operates			
Check cab air cleaner installed			
Check cab seals correctly (Light goes out on A/C)			
Check all switches on joystick			
Check reverse camera operates on display			
Check under-body camera operates			
Check drive mode dial for correct operation			
Check for emergency window breaker in cab			
Check and record firmware on: Display			Version:
F1 & F2 Controllers			Version:
LT controller			Version:
Norac			Version:
Danfoss drive software			Version:
A/C software			Version:
Measure and record the following:			
Antenna height (Critical measurement)			mm
Antenna offset (typically 0mm to the right)			mm
Antenna distance forward from rear axle			mm
Rear axle to nozzle distance			mm
Axle to axle distance			mm
Axle height (tyres at correct pressures)			mm
Implement offset			0 mm
Setup the display with a new implement			Refer to display or Op's manual as required
Connect Norac verification tool and save settings			Go to "Help" in verification tool and refer to manual
Check nozzle height matches sensor readings and adjust			
Check that subscriptions / unlocks are working			
Verify GPS receiver is receiving correction signal			
Confirm display (Mueller or X35,) has NMEA or GPS feed			

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Chassis Checklist

Items to check	Checked	Initial	Notes
Check engine oil level			
Check engine coolant level			
Check hydraulic oil level			
Check engine hoses for chaffing			
Check all engine clamps, wiring and belts			
Check air cleaner fitted properly			
Check air cleaner riser is fitted and secure			
Check final drives oil level (80/90W GL-5)			
Check there is fuel for PD and delivery to farm			
Adjust tyre pressures			Front:
As above			Rear:
Check compressor governor is set to 7.5 – 8.5 Bar			Bar
Check active air regulator is set to 60 Psi (under cab)			<i>*100 Psi if H-Select machine</i>
Adjust airbag length Front: 285 mm			mm
Adjust airbag length Rear: 285 mm			mm
-Machine running boom folded and NOT in park			<u>NOTE: 2 people required</u>
Check wheel nut torques – Front 650Nm			
Check wheel nut torques – Rear 650Nm			
Check front wheel alignment (10mm toe in)			
Check rear wheel alignment (0mm toe in)			
Check steering hoses for chaffing			
Check wheel motor hoses are secure, not chaffing			
Drain water from air receiver			
Check all pump hoses are secure			
Check for under chassis hydraulic leaks / fittings are tight			
Check steering hoses are secure, not chaffing			
Check rear hand-wash tank for leaks			
Check all machine fasteners are tight			
Check air system for leaks (with boom sections on)			
Check safety decals fitted correctly			
Check tank hold down bolts are tight			
Check all leg hardware is tight			
Adjust boom alignment in accordance with manual			
Check boom hardware is tight			
Adjust breakaway spring tension			
-Refer to manual			
Check boom sits in cradle correctly when folded			
Check Norac brackets are level when boom is folded out			
Adjust boom soft closers			
Fit boom filters and suction filter			
Check spray system for leaks at 6 Bar			
Check maximum pump RPM (4000 max RPM)			MAX RPM:
Check system hydraulic pressure set to 180 Bar +/- 5 Bar			Bar
Check left fence jet operation			
Check right fence jet operation			
Check section operation			

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Check nozzles behind rear wheels are spraying			
Check ARAG pump operation to both rinse and main tank			
Set ACE pump air pressure to 30 Psi			
Check ACE pump fill operation –including prime function			
Check raise / lower hopper function			
Check engine speed control from screen			
Check pump speed control from screen			
Check suction “A” valve operation			
Check pressure “P” valve operation			
Check rinse “R” valve operation			
Check operation of rinse pump to all positions			
Check all “AUTO” operations			
Check all operations from ground control and cab			
Fill tank to 1/3 rd and check agitation system for adequate fluid movement and no air inclusion			
Check chemical suction pump operation			
Check turbo filler operation –Fill			
-Drum wash			
-Turbo filler rinse			
-Empty time from full			Sec: (25 sec or less)
-Chemical suction point			
(Ensure pump is at maximum RPM when testing .)			
<u>Grease machine</u> – if no auto-greaser fitted			
Check and adjust all accumulators / pressures:			
Yaw accumulator 135 Bar			
LH inner fold accumulator 90 Bar			
RH inner fold accumulator 90 Bar			
HYDAC pressure relief 155 Bar			
LH tilt accumulator 90 Bar			
RH tilt accumulator 90 Bar			
Outer fold block accumulators 120 Bar			
Outer fold block relief 120 Bar			
Paralift accumulators 80 Bar			
Set tilt down speeds by adjusting flow restrictors			
Set paralift lower speed by adjusting flow restrictor			In front of hydraulic block

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Paddock Checklist

Items to check	Checked	Initial	Notes
Fit 1" camlock hose tail to customer hose as required			
Fit 2" camlock hose tail to customer hose as required			
Fit 3" camlock hose tail to customer hose as required			
Adjust boom light position as required			
Adjust headlights			
Adjust spotlights and field lights as required			
Setup autosteer and calibrate with boom unfolded			
<i>Move "WAS" sensor to prevent crabbing and offline steering</i>			
Test and adjust Norac to paddock conditions			
Check auto section control operation			
Recheck active air regulator is set to 50 – 60 Psi			
Check for correct regulation in auto			
Check for manual regulation control			
Perform a jug test and adjust flow meter PPU as required			
Recheck for fluid leaks			
Recheck for oil leaks			
Adjust oil flow percentage on screen to suit conditions			Boom fold / unfold flow %
Recheck boom soft closers			
Check and adjust ASC latency			
Confirm front toe in after testing in paddock for 30 minutes			
Confirm rear toe in after testing in paddock for 30 minutes			
Confirm Front and Rear airbag heights after 30 minutes			
<i>Retorque front and rear wheel nuts after 1st hour</i>			
Drive machine until wheel motors are at operating temperature. Check all wheel motors for leaks and drive hoses for leaks. Re-tension hose connections.			
Return warranty forms along with this document to:			
Hardi Warranty			
534-538 Cross Keys Road			
Cavan SA 5094			
HardiWarranty@Hardi-Aus.com			