



Developing Solutions, Delivering Success

21st Century Equipment Sprayer PDI

- 9.60 Hours
- Follow base PDI checklist in pdikk76270 manual in service advisor.
- Check warranty reports to make sure no PIP's are out for machine.

Machine setup

- Unload and DPO
- Wash machine after unloading (**Especially during winter months to remove road salt**)
- Remove all hardware and wire securing the boom for transportation
- Install left-hand boom cradle to in-field position
- Install handrails to field position
- Adjust front and rear air spring assemblies
- Check and adjust front axle toe-in
- Install optional tires (If equipped)
- Check tire pressure
- Re-torque wheel hardware to specification
- Locate Fence Row Nozzles and verify they are installed (If equipped)
- Install solution pump and auxiliary load center fuses (If necessary)
- Check axle cap spacing
- Remove caps from all grease zerks and grease machine.
- Load machine with water if weather permits to prepare machine for tests and calibrations.
 - **At least half full with water.**
 - **If equipped with Poly tank fill tank completely full and verify strap tension.**
 - **Fill Rinse Tank**

Operators station & attachments

- Adjust mirrors to operation position, verify all electric mirror functions are operational (If equipped).
- Verify and adjust all lights to make sure that they are operational
- Move the rear boom beacon from its transport position to field position
- Remove cushions from operator seat and remove plastics from cushions. Slide plastic back over cushion so customer can easily remove upon delivery.
- Verify that cab filter is installed
- Install decals on machine
- Install key chains on keys
- Set clock on radio and display
- Remove all delivery stickers and papers from windows
- Install Fire Extinguisher (If equipped)
- Verify all machine, Gen4 display, and receiver (if applicable) software are up to date
 - Get with Technology Specialist or ISG consultant if needed
 - Install Display and Receiver activations (If equipped)
- Verify that the display is set up for the customer
 - Section control
 - (Overlap settings, minimize skip on all but the coverage, which needs set to % overlap at 104%. Leave turn on times to factory specs.
 - Verify that transmission is set to **Auto** rather than manual.
 - Verify width, nozzle spacing, and number of boom sections
 - Verify flowmeter calibrations
 - Verify that factory installed back up camera is functional.

Calibrations

- Always test run machine, run all functions to verify operation.
- Set all in cab machine settings for Application that machine will be going into.
 - Download John Deere Equipment Plus app on phone to help with machine settings.
- Get with ISG consultant, Technology Specialist, or Salesman to make sure any customer data that needs loaded onto machine is ready before delivery to customer.
- **Road machine for at least 15 minutes above 25 MPH**
 - This is to warm the oil and check functions to prep machine for further calibrations that require **Warm Hydraulic Oil**

- While Rooding the machine perform a wheel speed sensor calibration
 - It is best to do this with a receiver installed. Get with your Local ISG Consultant, Technology Specialist, salesman, or customer to get a receiver.
 - This is crucial as a poor calibration will cause the hydro to surge during roading and field operations.
 - **Once back to the lot perform the following calibrations for the machine.**
 - Auto Boom Fold/Unfold Calibration
 - Run a tilt valve calibration
 - Run a tilt sensor calibration
 - Calibrate boom level position
 - Turn on and verify BoomTrac Pro 2 Sensors
 - Test and calibrate tread adjust
 - Verify and test AutoTrac
 - Perform AutoTrac Calibration
 - Calibrate AutoTrac EH Valve
 - Calibrate wheel angle sensor
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 - Turn on Solution Pump
 - Set Spray off pressure to 150 PSI and dead head the pump
 - Set Spray off Pressure back to 15 PSI after pump has reached dead head.
 - Get out of machine and check for leaks from solution plumbing.
 - Select a rate of 10 Gal/Acre and Run product through the boom
 - Verify Flow Meters
 - Product coming out Nozzles
 - If Equipped with ExactApply (EA) be sure to run product out both A and B Solenoids
 - Turn off spray
 - Run rinse cycle
 - Turn on Agitation
 - Turn on Product Recirculation (If equipped)
 - Run Eductor
 - Test all button on load station key pad
 - **Move all valves to verify operation**
- Test Boom Air Purge (If equipped)
- Test Boom Reclaim (If equipped)

- Test Foam Marker (If equipped)
- Drain water out of Solution and Rinse Tanks

Final Steps After Calibrations – Prior to Customer Delivery

- Check Hub oil level after roading machine and performing calibrations.
 - Place indicator at 2 o'clock position and verify correct level
- Fill DEF Tank
- Put 30 Gal of Fuel in the machine
- Drain Water out of air tank
- Winterize machine if necessary
- Walk around machine and perform final inspection for defects or leaks
- Record engine hours and date on cab decal prior to customer delivery