

396-3563Y1

QuickStart setup instructions for JDRC 2000 and SurePoint harness for 2 Liquid/Dry Products

213-00-3453Y_ 213-00-3538Y_ 213-00-3467Y_ 213-00-3585Y_

Below are typical SurePoint Liquid Fertilizer System setup screens. Your setup may vary. Not all screens are shown.





396-3563Y1 QuickStart Setup Instructions for JDRC 2000 and 2 Liquid/Dry Products Revised 06/22/2022 © 2017-2022 SurePoint Ag Systems, Inc.—All Rights Reserved 1

QuickStart setup instructions for JDRC 2000 and SurePoint: Two Products Use with SurePoint adapter harness: 213-00-3453Y_ or 3467Y_ or 3538Y_ or 3585Y_



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2

QuickStart setup instructions for JDRC 2000 and SurePoint: Two products



Adjusting the Flow Cal number: Verify the acres worked and gallons applied in the field and adjust the flowmeter calibration if needed for better accuracy. If you need more product, increase the Flow Cal number. If you need less product, decrease the Flow Cal number.



Display Settings, Section Switch Box, Run Page (Manual/Auto, Enable/Disable)



(4) Go to Diagnostics > Readings for important information and feedback: Hardware/Software, Delivery System, Section Status, System Voltage, Pressure Sensors, RPM Sensors and more.



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Tests for Initial Operation

17. Initial Operation in MANUAL mode: (Run PR1 and PR2 separately)		
1.	ne system with water. For first time startup, open air bleed valve, close recirculation.	
2.	Enter a Test Speed at Setup > Implement	Running these tests will dispense
3.	Navigate to MANUAL MODE on the JDRC 2000 Run Page.	liquid. Be sure it is safe to dispense
4.	Height switch must be DOWN (or uncheck Height Switch box).	the liquid at this time.
5.	Turn on Master Switch. Press and hold (+) to increase flow. Do not worry if it says "SOLUTION PUMP DRY". The SureFire pump will not be damaged by running dry.	
6.	Monitor Flow (gal/min), PSI, DC, Pump RPM. Note: Pressure will be much lower when testing with water.	
7.	Go to Section Switch box (see previous page). Turn Sections OFF and ON.	
8.	Turn Master Switch OFF.	
OPTIONAL MANUAL PUMP OPERATION:		
Go to Diagnostics > Tests > Calibrate PWM LIMITS. This is a place where you can manually run the pump without the system shutting down if it doesn't read flow immediately. When you press START, the section valves will open. Press and hold (+) to increase the PWM Duty Cycle. For electric pumps the DC will have to be 10%-15% to get flow. Hydraulic pumps will need to be around 30% to get flow. When priming the pump, it will help to open the air bleed valve, close the recirculation knob and run the pump faster to get it primed and to get the air out.		
TR 10 pu	OUBLESHOOTING TIP: Pump Won't Run—Start the Calibrate PWM Limits Te 0%. With a voltmeter check voltage at the 2-pin PWM connector. Should have 12 np won't run, check the pump as described next:	st. Run the PWM Duty Cycle (DC) to 2-13 volts. If there is voltage here, but
Electric Pump—Unplug the two big connectors at the black EPD module. Plug these together. This will take power from		

the battery directly to the pump(s). The pump(s) should run full speed.

Hydraulic Pump—On the hydraulic valve block, pop up the Manual Override button (red knob on top of solenoid). If unit has been in the field, you may need to loosen the dirt to move the knob. In cab, turn hydraulic flow to very low so you won't overspeed the pump. Engage hydraulics. Pump should begin turning. Slowly increase hydraulic flow to speed up the pump. In an emergency, the pump can be run in the field like this, controlled by the hydraulic flow set in the cab.

You can also run the pump manually in *Diagnostics > Tests > Control/Section Test*. You can open and close the section valves individually here.

18. Initial Operation in AUTO mode: (Could also do Diagnostics > Tests > Nozzle Flow Check).

- 1. Enter a Test Speed at Setup > Implement
- 2. Navigate to AUTO MODE on the JDRC 2000 Run Page. Select a Rate.
- 3. Height switch must be DOWN (or uncheck Height Switch box).
- 4. Turn on Master Switch.
- 5. Monitor Actual Rate (gal/ac), Flow (gal/min), PSI, DC, Pump RPM.
- 6. Go to Section Switch box (see previous page). Turn Sections OFF and ON.
- 7. Turn Master Switch OFF. (NOTE: Pressure will be much less with water than with heavier, thicker fertilizer. You may have to double or triple the rate with water to get all the check valves to open.)

TIPS: RECIRCULATION KNOB and PRESSURE—There is a gray knob plumbed into both electric and hydraulic systems for recirculation. Typically, this knob is closed all the way. If it necessary to open recirculation, start with a quarter turn of the knob. If the knob is open too far, the pump may not be able to hit the rate desired. Opening the recirculation knob will NOT lower the pressure. The pressure simply shows how hard the pump has to push to get the desired amount of product through all the plumbing. On an electric pump system, as the pressure increases, the maximum output of the pump decreases. If the pressure is too high, you may not be able to hit the desired rate. If the pressure is too high, you may need larger diameter or shorter metering tubes. An electric pump is OK up to 60 PSI if it can hit the rate. It is better to try to keep an electric system in 15 to 30 PSI range.

A WARNING

The operator is responsible for knowing and understanding the safe operation of this equipment. Systems with hydraulic equipment require additional safety precautions to prevent serious injury and/or death. See the full SurePoint Manual and the John Deere Rate Controller 2000 Operator's Manual for important safety information and setup and operating instructions.

SurePoint manuals and troubleshooting guides are available at www.surepointag.com.







