

396-3639Y1

SurePoint Spartan system and JDRC 2000

Your setup may vary. See the full setup instructions on instruction with main Adapter harness (396-3562Y1, -3563Y1, -3564Y1 or -3566Y1). See also 396-3616Y1 manual for JDRC 2000 and Tower systems.

Start with the Valve Response Rate at 80. You will also make some changes in the Advanced Tuning (described later). If system is too slow to adjust to speed changes, increase Valve Response by 10 at a time.

If the system overshoots and oscillates decrease by 10 at a time.

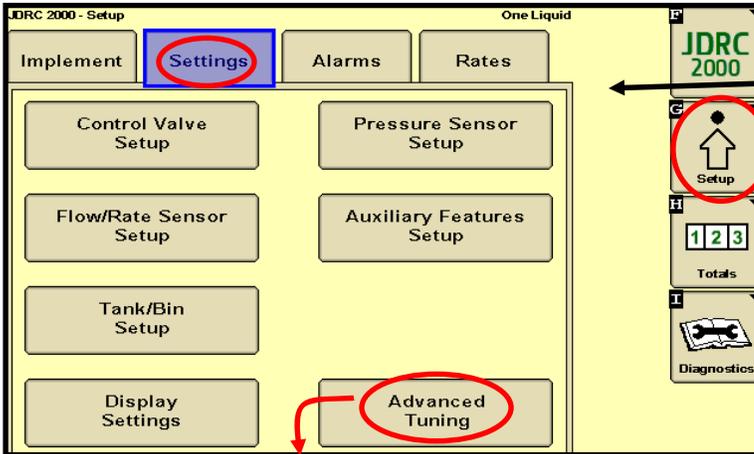
Spartan Model	110	120	130	140
Flowmeter Calibration	1760 fl oz	880 fl oz	440 fl oz	220 fl oz

For a rate of 32 oz/acre ($32 / 128 = 0.25$ gal/acre), check the Decimal Shift box, and enter the rate as 0.25 gal/acre.

Start with the Low Limit and PWM Startup as shown above. Monitor the PWM DC % on the Run page. If the pump needs to go below 10% DC, change the Low Limit above. Adjust the PWM Startup % so the pump starts at the speed you want.

Use this if you want to keep track of product in the tank.

MUST do this Setup step for the Spartan:

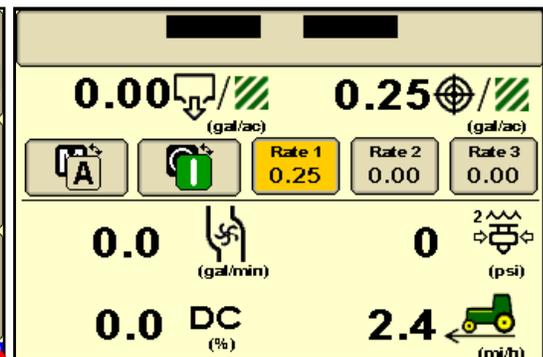
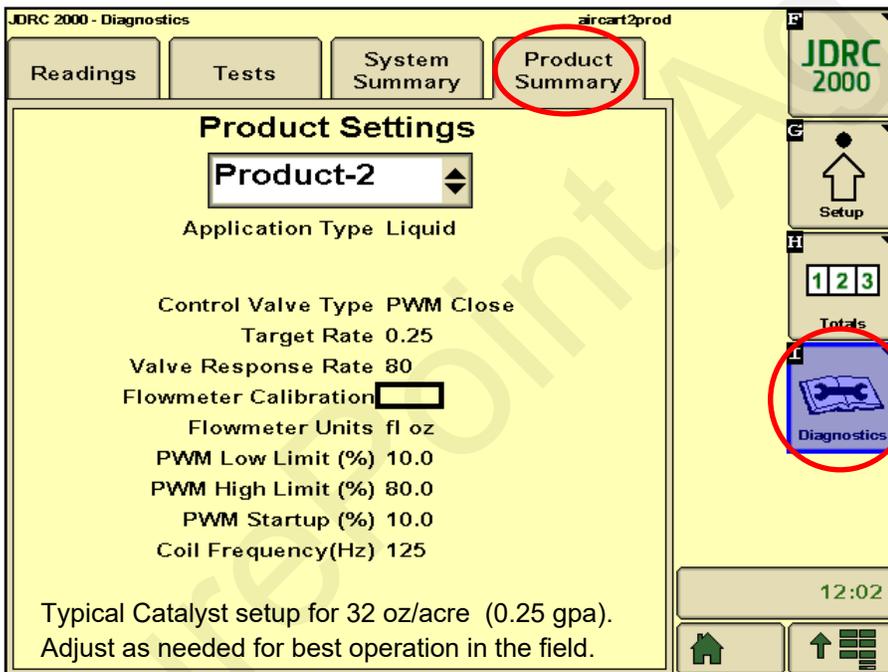
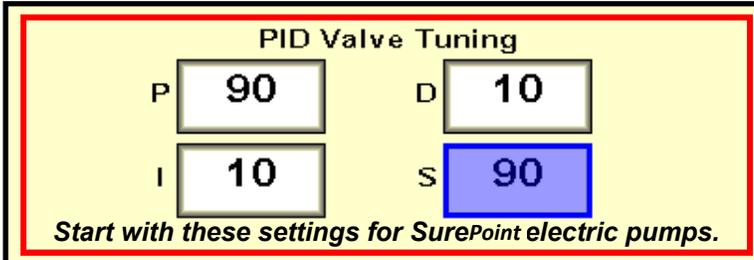


Advanced Tuning

On SurePoint **electric pump systems** (Tower 110, Tower 200, Catalyst, and Spartan), it will be necessary to use the **Advanced Tuning** feature in addition to the regular Control Valve Calibration. To activate **Advanced Tuning**, press and hold the **Settings** tab for about 8 seconds.

On **electric pump** systems, set the PID Valve Tuning parameters as shown (below left). Press the “?” for an explanation of what each of these values does.

Fine-tuning of the system may require some adjustment of these numbers along with the Valve Response Rate on the Control Valve Setup.



The screenshot above shows the Run page with 4 items that be set in **Display Settings**. These items give valuable information about the performance of your system.

- Flow (gal/min)
- Pressure (PSI)
- PWM Duty Cycle (DC %)
- Speed (mph)

Caution: The Spartan pump will produce up to 290 PSI. Limit operating pressure to 80 PSI or damage to plumbing components may result. You can set a Maximum Pressure Alarm at 80 PSI and check the Alarm box of a pressure sensor that is plugged into and assigned to the Spartan system to limit pressure to 80 PSI.

The pressure you get when testing with water will be much less than it will be with a heavier, thicker fertilizer product.

See the other SurePoint publications and setup instruction sheets for more screenshots and complete profile setup information.

Read the John Deere Rate Controller 2000 Operator's Manual for complete safety and operating instructions.