

# 396-4760Y1 QuickStart Card



**JD GreenStar Rate Controller (GRC)**  
Supplement to 396-001070 and  
396-4608Y1



The following screenshots show the setup settings that are typically good initial settings. Actual settings on your system may vary from those shown here. Adjust settings as necessary in the field to get the best operation from your system. For the full system manual (396-001070) and the Gen3 LiquiShift manual (396-4608Y1) go to [www.surefireag.com/support](http://www.surefireag.com/support).

**WARNING** Operator is responsible for the safe operation of this system. Follow all safety precautions for safety with hydraulic equipment. Read the manual.

### Setup > Implement

Rows	Sections
12	12
16	8
24	12
32	8
36	12
48	12

### Setup > System

Set up Height Switch as appropriate for this system.  
Set up Sections as shown in the table on the right.

**Flowmeter Cal—2000** **Flowmeter Units—gal**  
For SureFire Electromagnetic Flowmeter (0.6 to 13 gpm and larger)  
Verify calibration and adjust as needed.

## PWM Setup

## Calibrate Pressure Sensor



Scan this with your phone camera or click on the icon to see a video on setting up this system.



## Setup > Alarms

## Setup > Rates

## Diagnostics > Tests > Section Test

## Diagnostics > Tests > Nozzle Flow Check

**Section Test** or **Calibrate PWM Limits** can be used for manual operation of the system. **Calibrate PWM Limits** is good to prime the pump on startup, to rinse the system, and for troubleshooting.

Use **Nozzle Flow Check** to see if system will lock on to a rate at a test speed. Pressure with water will be a lot lower than it will be with a heavier product.

**Diagnostics > Readings > Delivery System** will show details on flowmeter operation and pump speed (PWM Duty Cycle). This can be useful information for troubleshooting.



SCAN for video on Diagnostics > Readings

## Initial Testing and Operation

1. Fill the system with water. For first time operation, close the Recirculation knob by the pump and open the air bleed valve.
2. Go to **Diagnostics > Tests > Calibrate PWM Limits**. Follow the instructions to run the test. Hold the (+) button to speed up the pump. When water starts flowing, it should show (gal/min) and PSI on the screen. Note: The pressure will be much lower with water than it will be with a fertilizer product. On the LiquiShift, only valve A will be open unless the pressure reaches 70 PSI. To open Valve B, turn on the manual toggle switch by Valve B.
3. With the (+) and (-) buttons, you should be able to change the speed of the pump, gal/min, and PSI.
4. After the pump is primed, you can open the Recirculation knob a quarter to a half turn. Run the Section Test and Nozzle Flow Check.

(Note: You may get a warning that says "Solution Pump Dry". This message is programmed in the controller to come on when the system does not read flow. It is there to save pumps that might burn up seals if they are run dry. SureFire pumps will not burn up seals if run dry.)

Go to <http://www.surefireag.com/support> to see the full system manual (396-001070) and the Gen3 LiquiShift manual (396-4608Y1).

©2015-2021 SureFire Ag Systems

