

Equipment Technologies

Default Settings software revision 1.02.127

Default Settings: Wrench > Initial Setup > Configuration

Configuration	
1 Task Control Mode	ISO
2 Fluid Control Mode	Synchro
3 Product Mode	Single
4 Master Switch Source	External
5 Boom Switch Source	None
6 Master Switch Input	12V
7 VT Update Rate	100 ms
8 Display Smoothing	Enable

Master Switch Source

- “External” enables joystick master switch
- “On Screen” enables VT home screen master switch

Boom Switch Source

- “None” enables switch box
- “On Screen” enables VT home screen section switches

Configuration	
9 Nozzle Spacing	20.00 in
10 Total Number Of Nozzles	71
11 Factory Reset	
12 Maximum TC Sections	71
13 Selected VT	Ag Leader, 38
14 Selected TC	Ag Leader, 247
15 Aux Boom Configuration	No Config
16 Software Restart	

Nozzle Spacing

- Set to machine specific Nozzle Spacing

Total Number of Nozzles

- Must match total number of nozzles on machine including fence row nozzles

Maximum TC Section

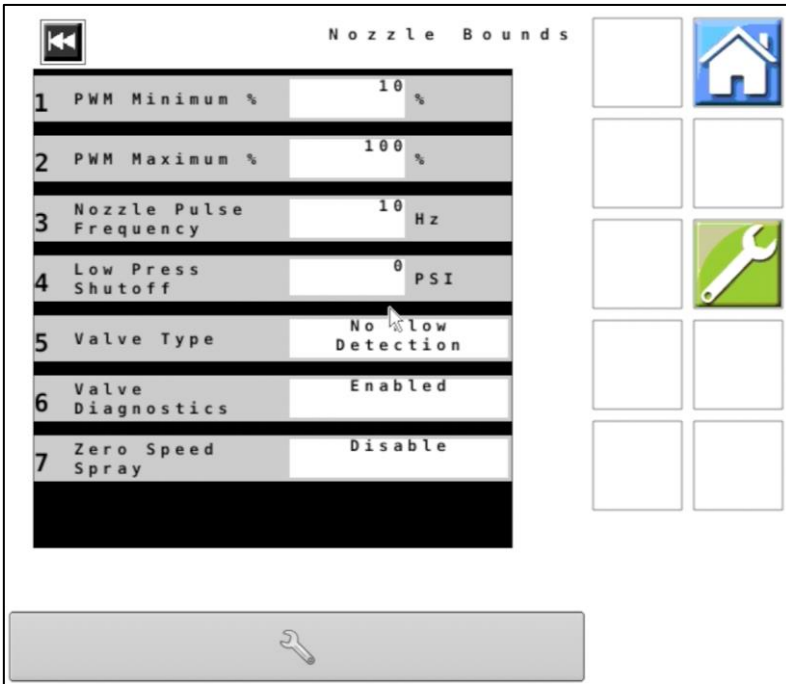
- Set to desired number of spray sections on boom
- Must not exceed task controller supported sections

Configuration	
17 Machine Configuration	100 ft, 20 in
18 Fill Station	Disable
19 Language	English
20 Units (Pressure)	PSI

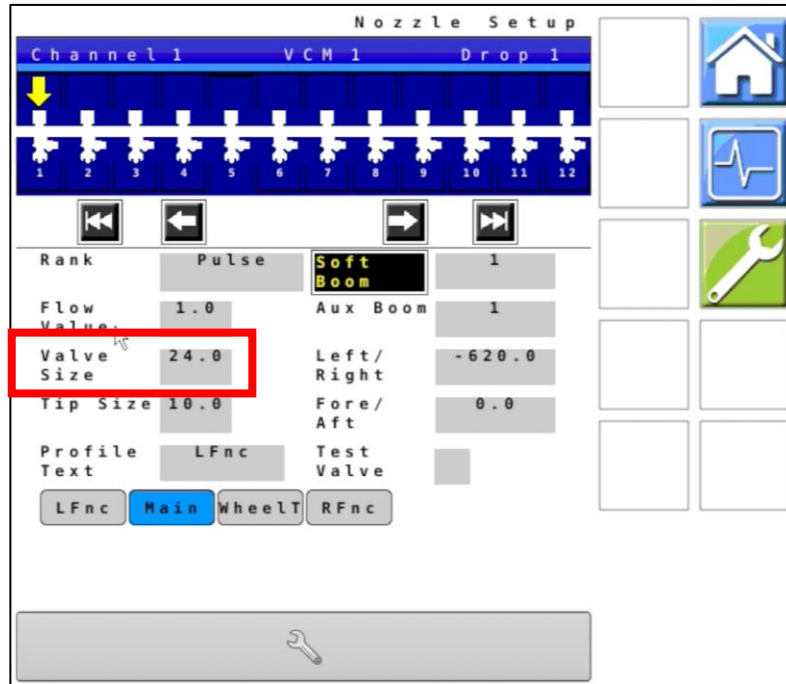
Machine Configuration

- Save configuration after all setup has been completed

Default Settings: Wrench > Boom/Nozzle



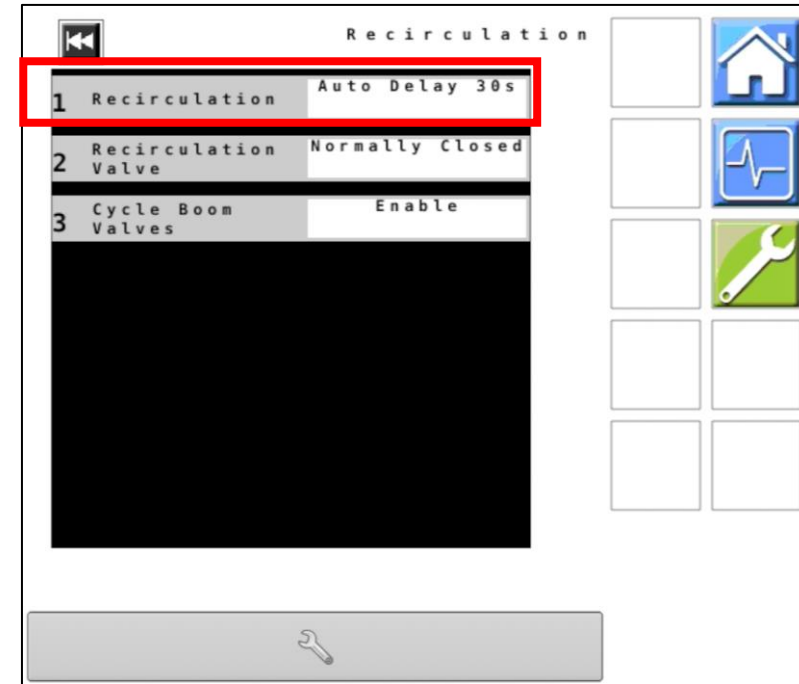
Setting	Value
1 PWM Minimum %	10 %
2 PWM Maximum %	100 %
3 Nozzle Pulse Frequency	10 Hz
4 Low Press Shutoff	0 PSI
5 Valve Type	No Low Detection
6 Valve Diagnostics	Enabled
7 Zero Speed Spray	Disable



Parameter	Value
Rank	Soft Boom
Pulse	1
Flow Value	1.0
Valve Size	24.0
Tip Size	10.0
Left/Right	-620.0
Fore/Aft	0.0
Profile	LFnc
Test Valve	

Valve Size

- Blue Wire Solenoid Valves = 24.0
- Black Wire Solenoid Valves = 15.5



Setting	Value
1 Recirculation	Auto Delay 30s
2 Recirculation Valve	Normally Closed Valve
3 Cycle Boom Valves	Enable

Recirculation

- Set to "Disabled" if not equipped with recirculation system

Default Settings: Wrench > Pressure

Pump Setup

1	Servo Type	PWM 12V
2	Servo Minimum %	23 %
3	Servo Maximum %	78 %
4	Servo Man Speed %	50 %
5	Pump Seal Shutdown	1 PSI
6	Pump Pulses/Rev	6 Pulse/Rev
7	Pump Max. Speed	0 RPM
8	Rx Method	Average

Pump Setup

9	Min Pressure	0 PSI
10	Max Pressure	100 PSI
11	Max Flow	0 Gal/Min
12	Pump Power Up Status	OFF
13	Conventional Standby	40 PSI
14	Fill Station PWM	50 %

Sensor Setup

1	Sensor 1 Minimum	1.0 Volts
2	Sensor 1 Maximum	5.0 Volts
3	Sensor 1 Minimum	0 PSI
4	Sensor 1 Maximum	250 PSI
5	Sensor 1 Offset	0 PSI
6	Sensor 2 Minimum	1.0 Volts
7	Sensor 2 Maximum	5.0 Volts
8	Sensor 2 Minimum	0 PSI

Fill Station PWM

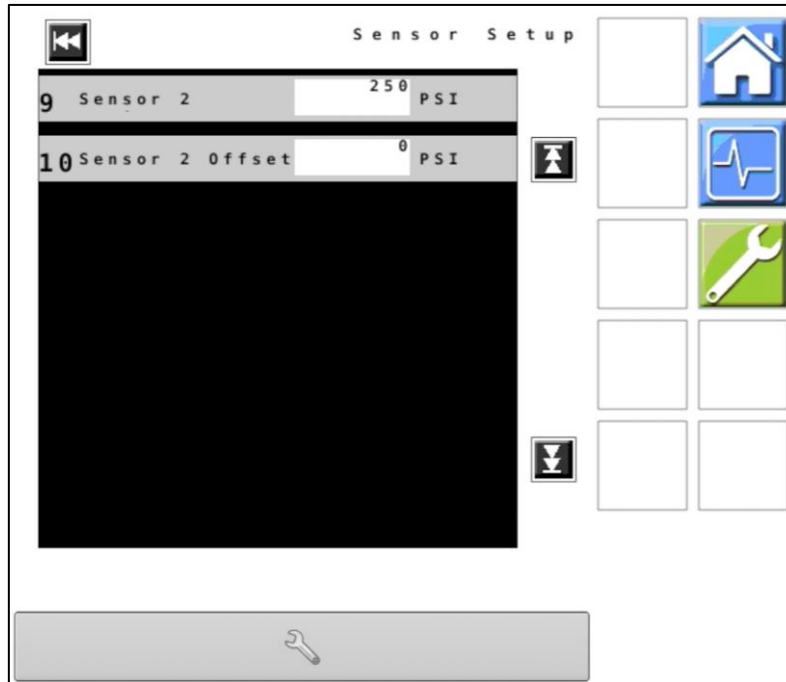
- This value sets the pump speed when operating the remote fill station

Default Settings: Wrench > Pressure

Sensor Setup

9 Sensor 2 250 PSI

10 Sensor 2 Offset 0 PSI



Control Tuning

1 System Gain 1.0

2 Gain P 5.0

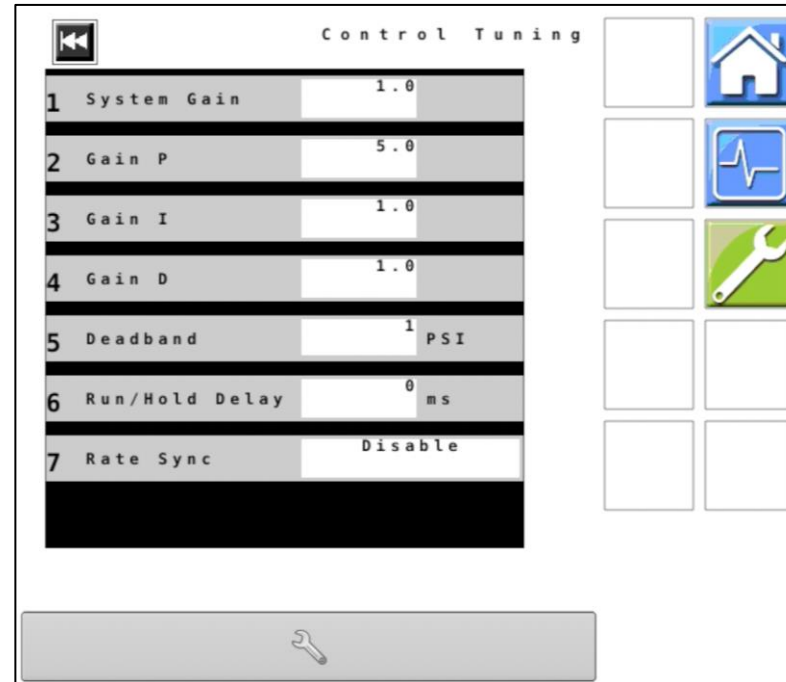
3 Gain I 1.0

4 Gain D 1.0

5 Deadband 1 PSI

6 Run/Hold Delay 0 ms

7 Rate Sync Disable



Default Settings: Wrench > Flow

Flowmeter Setup

1	Meter 1 Type	Correction	
2	Meter 1 Minimum	3 Gal/Min	
3	Meter 1 Calibration	1734 Pulse/10 Gal	
4	Meter 1 Error Limit	50 %	
5	Specific Gravity 1	1.00	
6	Meter 2 Type	Transparent	
7	Meter 2 Minimum	0 Gal/Min	
8	Meter 2 Calibration	1734 Pulse/10 Gal	

Navigation icons: Home, Heart, Wrench

Wrench icon at bottom

Flowmeter Setup

9	Meter 2 Error Limit	0 %	
10	Specific Gravity 2	1.00	
11	JD-R Low Flow Mode	0 Gal/Min	
12	Preset Rate Average	Average	
13	Flowmeter Sense Resistor	Pull-Up	
14	Tank Sensor Calibration	Not Started	

Navigation icons: Home, Heart, Wrench

Wrench icon at bottom

Control Tuning

1	System Gain	1.0	
2	Gain P	5.0	
3	Gain I	1.0	
4	Gain D	0.0	
5	Deadband	0 Gal/Min	
6	Nozzle PWM Cycle Time	4.0 s	

Navigation icons: Home, Heart, Wrench

Wrench icon at bottom

Meter 1 Calibration

- Enter main product flowmeter calibration number


Meter 2 Calibration


- Enter fill flowmeter calibration


Default Settings: Wrench > Navigation


Vehicle

1	Machine Steering	2 Wheel
2	Boom Type	Fixed
3	Hinge Point Ahead R. Axle	0 in
4	Drawbar Pt. Ahead R. Axle	0 in













Implement

1	Boom Ahead Rear Axle	-78 in
2	Trail Axle Ahead R. Axle	0 in
3	Trail Hitch Ahead R. Axle	0 in
4	Trail 2 Axle Ahead R. Axle	0 in










ISO Look Ahead

1	ON Look Ahead Time	0 ms
2	OFF Look Ahead Time	0 ms









Default Settings: Wrench > Navigation

GPS

1	GPS Ahead Rear Axle	-78 in
2	GPS Right Of Center	0 in
3	GPS Height From Ground	0 in
4	GPS Used	NA

Navigation icons: Home, Heart Rate, Wrench

Wrench icon at bottom

Compass

1	Compass Enable	Disable
2	Compass Calibration	Start
3	Compass Heading	0°
4	Compass Offset	0°

Navigation icons: Home, Heart Rate, Wrench

Wrench icon at bottom

Gyro

1	Gyro	Enable
2	Contour	Disable

Navigation icons: Home, Heart Rate, Wrench

Wrench icon at bottom

GPS Ahead Rear Axle

- If using Raven RS1 set to 0
- If using Trimble auto guidance set to 0
- All others set to -78, or actual measurement

GPS Used

- Select Available GPS source, typically NMEA 2000 or J1939