

FAST SETUP GUIDE





Step 1: Initial Configuration

Step 1: Access Configuration Menu

- On the display, select **Wrench > Initial Setup > Configuration**
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Step 2: Configure System Settings

1. **Factory Reset** – Do not continue with setup until completed
 2. **Master Switch Source**
 - Set to **“External”** if using a switch box or foot switch.
 - Set to **“On-Screen”** if no external switch is used.
 3. **Boom Switch Source**
 - Set to **“On-Screen”**.
 4. **Master Switch Input**
 - Set to **“Ground”** if using foot switch
 5. **Nozzle Spacing**
 - Enter the **actual nozzle spacing** installed on the machine.
 6. **Total Number of Nozzles (Verification Step)**
 - The system **automatically detects** the number of nozzles during bootup.
 -  If the detected nozzle count matches the physical nozzles on the machine → continue with setup.
 -  If the detected nozzle count does **not** match → stop setup and resolve the miscount before proceeding (check wiring, make sure nozzles are plugged in). Factory Reset to redetect the Total Number of Nozzles once resolved.
 7. **Maximum TC Sections**
 - Set to the **total number of nozzles** or the **desired number of shutoff sections** (depending on application requirements).
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-  Setup complete for configuration stage.



Step 2: VCM Setup

Step 1: Access VCM Setup Menu

- On the display, select **Wrench > Initial Setup > VCM Setup**
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Step 2: Understand VCM Ports

- Each **VCM Port** on the hub (Ports 1–4) can contain **1 to 3 VCMs**.
 - Ports and VCMs are labeled as follows:
 - **Port 1** → 1A, 1B, 1C
 - **Port 2** → 2A, 2B, 2C
 - **Port 3** → 3A, 3B, 3C
 - **Port 4** → 4A, 4B, 4C
 - The order in this menu must **exactly match** the order of VCMs physically installed across the boom.
 - Port 1 contains the leftmost VCM(s).
 - Port 2 follows, then Port 3, then Port 4.
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Step 3: Arrange VCMs in Correct Order

- **If only 1 VCM** is installed in a port → it is automatically correct.
 - **If 2 VCMs** are installed and not in the correct order →
 - Select each VCM.
 - Use the **Swap VCM** button to switch their positions.
 - **If 3 VCMs** are installed →
 - Select two at a time.
 - Use **Swap VCM** until all are in the correct order.
 - Repeat for each port until the order matches the physical boom layout.
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Step 4: Verify Setup Using Key Fob

1. Navigate to **Home > Key Fob**.
 2. Open the Key Fob app on your phone.
 3. Activate nozzles across the boom from left to right.
 -  If setup is correct, the nozzles will fire **in exact left-to-right order**.
 -  If the order is incorrect, return to VCM Setup and adjust.
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Pro Tip

- Before entering VCM Setup, use the **Key Fob** to test the boom.

- Make notes of which VCMs are out of order.
 - When entering VCM Setup, quickly navigate to those specific VCMs and swap them.
 - This approach saves time and ensures accuracy.
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✓ Always verify VCM Setup before moving on.

Step 3: Boom/Nozzle Setup

Step 1: Nozzle Bounds

- Navigate to **Wrench > Boom/Nozzle > Nozzle Bounds**
1. **Valve Diagnostics** → Set to “Coil Only”
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Step 2: Nozzle Setup

- Navigate to **Wrench > Boom/Nozzle > Nozzle Setup**
1. **Valve Size** → Set to “24.0”
 2. Check the box for “Enable Fence Row Outputs”
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Step 3: Recirculation (if equipped)

- Navigate to **Wrench > Boom/Nozzle > Recirculation**
1. **Recirculation** → Set to “Auto Delay 30s”
 2. **Cycle Boom Valves** → Set to “Enabled”

Step 4: Softboom Setup (Verification Step)

Navigate to: Wrench > Boom/Nozzle > Nozzle Setup → press the **Softboom** button

This tells the PinPoint system how many nozzles should be assigned to each ball valve.

- Select your boom configuration and enter the correct softboom nozzle assignments:

Boom Model / Width / Spacing Softboom Assignments (last nozzle number of each section)

9600 60/90', 20" 9, 21, 33, 45, 54

Boom Model / Width / Spacing Softboom Assignments (last nozzle number of each section)

9600N 60/90', 15"	12, 28, 45, 61, 73
9518TF 100', 20"	15, 30, 45, 60
9518TF 100', 15"	20, 40, 60, 80
9518TF 60/90', 20"	9, 21, 33, 45, 54
9518TF 60/90', 15"	12, 28, 45, 61, 73
973PT 120', 20"	18, 31, 41, 54, 72
120' Truss, 15"	12, 30, 49, 67, 85, 97
132' Truss, 22"	9, 18, 36, 54, 63, 72

✦ **Note:** If your boom configuration is not listed, count the nozzles physically on the boom. The **last nozzle in each plumbing section controlled by a ball valve** is what you enter into the Softboom menu.

There should be **one Softboom entry per ball-valve-controlled plumbing section**.

✅ **Softboom Setup is complete** when all sections are assigned.

✅ **Boom/Nozzle Setup is now complete.**

Step 4: Pressure Setup

Step 1: Pump Setup

- Navigate to **Wrench > Pressure > Pump Setup**
 1. **Servo Minimum** → Set to **“23”**
 2. **Servo Maximum** → Set to **“95”**

Step 2: Sensor Setup

- Navigate to **Wrench > Pressure > Sensor Setup**
 1. **Sensor 2** → Set to **“250”**
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Step 3: Control Tuning

- Navigate to **Wrench > Pressure > Control Tuning**
1. **System Gain** → Set to “2.5”
 2. **Gain D** → Set to “2”
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✓ Pressure Setup is now complete.

Step 5: Flow Setup

Step 1: Flowmeter Setup

- Navigate to **Wrench > Flow > Flowmeter Setup**
1. **Meter 1 Calibration** → Set to the **actual flowmeter calibration number** in **Pulses/10 GAL** (value provided on the flowmeter tag).
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✓ Flow Setup is now complete.

Step 6: Navigation Setup

Step 1: Vehicle Setup

- Navigate to **Wrench > Navigation > Vehicle**
1. **Boom Type** → Set to “Pull”
 - If operating a **3pt hitch sprayer**, set to “Fixed”
 2. **Drawbar Pt. Ahead R. Axle** → Set to “-180” (default)
 - Or measure the actual distance from the rear axle of the tractor to the drawbar point.
 - If using a **3pt hitch sprayer**, set to 0.
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Step 2: Implement Setup

- Navigate to **Wrench > Navigation > Implement**

1. **Boom Ahead Rear Axle** → Set to “-280” (default)
 - Or measure the actual distance from the boom application point to the rear axle of the tractor.
 - If using a **3pt hitch sprayer**, set to **0**.
 2. **Trail Axle Ahead R. Axle** → Set to “-224” (default)
 - Or measure the actual distance from the sprayer’s axle to the tractor’s axle.
 - If using a **3pt hitch sprayer**, set to **0**.
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Step 3: GPS Setup

- Navigate to **Wrench > Navigation > GPS**
1. **GPS Ahead Rear Axle** → Set to “192” (default)
 - Or measure the actual distance from the GPS receiver to the rear axle of the tractor.
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Note:

- The example values provided above are for a **generic tractor**.
 - For **best performance**, measure and enter the **actual distances** specific to your machine.
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 **Navigation Setup is now complete.**