ET Beginner SETUP GUIDE

⚙️ Step 1: Initial Configuration

Step 1: Access Configuration Menu

- On the display, select **Wrench > Initial Setup > Configuration**

Step 2: Configure System Settings

1. **Factory Reset –** Do not continue with setup until completed
2. **Manufacturer**
   - Set to **"ET PWM"**
3. **Nozzle Spacing**
   - Enter the **actual nozzle spacing** installed on the machine.
4. **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.

✅ **Setup complete for configuration stage.**

⚙️ Step 2: VCM Setup

Step 1: Access VCM Setup Menu

- On the display, select **Wrench > Initial Setup > VCM Setup**

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.

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.

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.

💡 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.

✅ **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"**

Step 2: 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	Softboom Assignments
60/90 ft. 20" Steel	4, 9, 16, 24, 30, 38, 45, 50, 54
60/90 ft. 15" Steel	6, 12, 22, 32, 41, 51, 61, 67, 73
90 ft. 20" Steel	6, 12, 18, 24, 30, 36, 42, 48, 54
100 ft. 15" Steel	10, 18, 26, 36, 45, 55, 63, 71, 81
100 ft. 20" Steel	7, 14, 21, 28, 34, 41, 48, 55, 62
90 ft. 15" Pommier	7, 15, 23, 32, 41, 50, 58, 66, 73
90 ft. 20" Pommier	5, 11, 17, 24, 30, 37, 43, 49, 54
100 ft. 20" Pommier	7, 14, 20, 27, 33, 40, 46, 53, 60
100 ft. 15" Pommier	10, 19, 27, 36, 45, 54, 62, 71, 81
120 ft. 20" Pommier	8, 16, 24, 32, 40, 48, 56, 64, 72
120 ft. 15" Pommier	11, 22, 33, 44, 53, 64, 75, 86, 97
132 ft. 20" Pommier	10, 19, 27, 36, 44, 53, 61, 70, 80
90 ft. 15" Ceres	7, 12, 22, 32, 41, 51, 61, 66, 73
90 ft. 20" Ceres	5, 9, 16, 24, 30, 38, 45, 49, 54
100 ft. 15" Ceres	7, 16, 26, 36, 45, 55, 65, 74, 81
100 ft. 20" Ceres	5, 12, 19, 27, 33, 41, 48, 55, 60

📌 **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: 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).
2. **Meter 2 Calibration** → Set to the **actual flowmeter calibration number** in **Pulses/10 GAL** (value provided on the flowmeter tag).

✅ **Flow Setup is now complete.**

✅ **Total Setup is now complete. Time for Pre-Delivery Check-off**