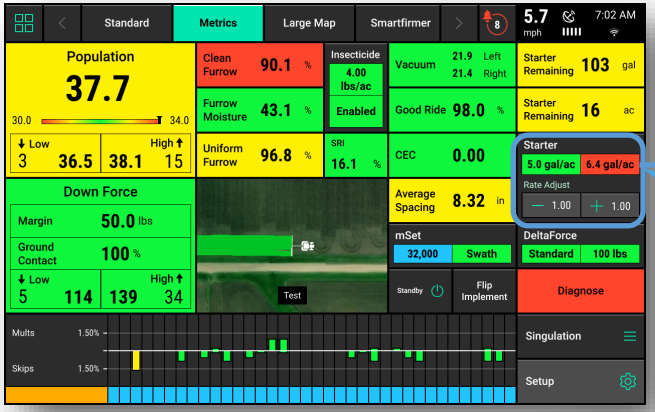
20|20 GEN 3—vApplyHD CONTROL

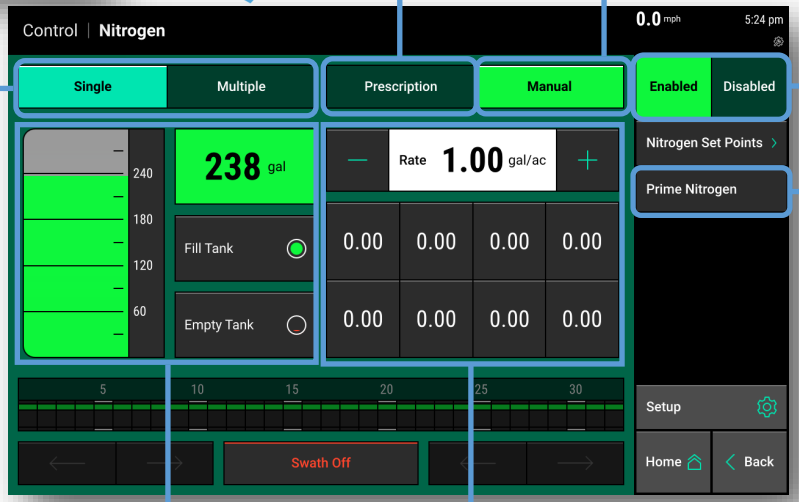


To access the **vApplyHD Control Page**, the control button must first be added to the Home **Page** (see **Quick Reference Guide—20|20—Home Page Customization**). It will be called either "Product 1" (if a nickname has not been assigned in the vApplyHD setup page) or it will be called the same name that was entered as the product's nickname.

Button Press

If a variable rate liquid prescription is being used the status button will say "**Variable**". The current rate being applied is displayed in the white box.

Select "**Manual**" to switch to manual control. This ignores any prescription that may be assigned and applies a constant rate. If no prescription is assigned to the active field, manual mode will automatically be selected.



Before the **vApplyHD** system can be used, the system must be enabled by selecting the "**Enabled**" button in the top right hand corner.

Single rate control indicates a single rate section. **Multiple** will allow mulitple rate sections to be assigned if rate sections have been created in **Control Sections Setup.**

The "**Prime Nitrogen**" button on the right hand side of the control page is used to pressurize the system (similar to auto loading meters, but for liquid). Pressing on the button will allow the auto load switches to function for the liquid system. Unless the operator is on this screen, the auto load switches will only spin the meters.

When in **Manual** rate mode, the rate displayed in the white box is the rate being commanded. This rate can be adjusted manually by pressing on the white box and typing the rate, touching the **+ or -** buttons, or using a preset button (add presets by pressing the **Liquid Set Points** button).

Select "**Fill Tank**" to tell the system the tanks are full, "**Empty Tank**" to indicate an empty tank, or select the volume remaining (indicated by 238 gal in the illustration) to manually enter the number of gallons in the tank.

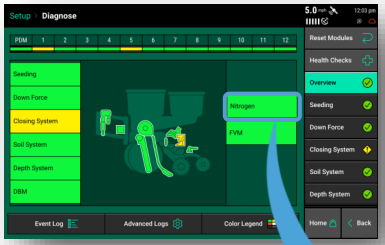
Precision Planting

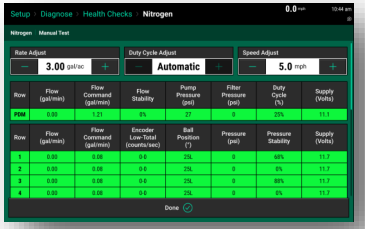
20|20 GEN 3—vApplyHD DIAGNOSE

START HERE

Diagnose

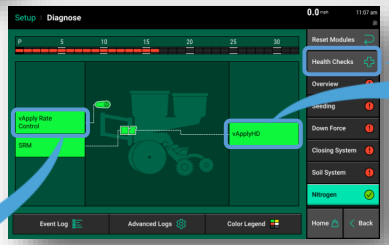
Button Press





HEALTH CHECK

Select liquid **Manual Test** on the **Health Checks** page. This test will allow you to select a **Rate** and **Speed** to help in calibrating the pump. See the **vApply Operator's Guide** (955656).



The liquid diagnostic page opens either the **vApply Rate Control** page, which shows planter-wide metrics, or the **vApplyHD** page which shows row by row details.

vApply Rate Control Module—System Wide

Motor RPM Actual: Actual revolutions per minute of the hydraulic motor.

Motor RPM Cmd: The RPM being commanded of the hydraulic motor by the vApply system.

Hydraulic Pressure: The hydraulic pressure as measured at the hydraulic motor.

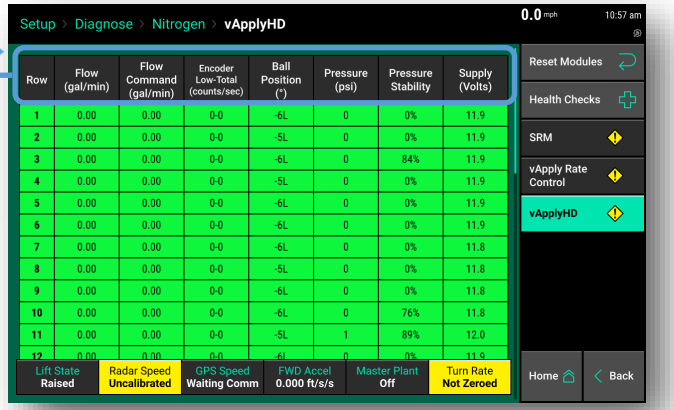
Pump Pressure : Pressure reading of the system taken at the by-pass valve.

Filter Pressure: Displays differential pressure between the inlet and the outlet of the filter. Tap to toggle between the following readings: **Filter In (PSI), Filter Out (PSI), Filter Status**.

PWM: Current **PWM**% being commanded to the pump.

Supply Volts: Voltage reading at the **vApply Module**.

vApplyHD Modules—Row by Row



Flow: Measured flow in gallons per min.

Flow Cmd: The gallons per min. being commanded by the system.

Encoder Low-Total: Actual flow rate feedback of each flow sensor located in the vApplyHD module. Low flow range is 1-900 Htz., total flow is 10-200 Htz. When total flow is open the low flow is also being used.

Ball Pos (degree): The commanded ball position of the **vApplyHD** valve.

Pressure (psi): Pressure reading at the **vApplyHD Module**. This value should not be less than 15 psi less than the vApply module pressure reading, if it is that indicates an obstruction between the pump and the vApplyHD module. Tap to toggle to **Temperature**.

Pressure Stability: Derived by calculating an average psi and then measuring the percentage of deviation of the max or min psi readings. Acceptable performance is above 85%. Tap to toggle to **Flow Stability**.

Supply Volts: Voltage reading of each vApplyHD module. A normal voltage range is from 12- 15v. If the voltage drops below 9.5v, the vApplyHD module will shut down.

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