

# vDrive Health Check (2025.1)

To check the health of the vDrive (Seeding) system, perform a “Seeding Manual Test.” Access the health checks page by selecting “Setup” – “Diagnose” – “Health Checks.” Follow the recommendations on the Seeding Manual Test page to initiate the health check. Once in the Seeding Manual Test page, adjust the rate and speed to the settings below to evaluate the high-rate and low-rate performance of your vDrive motors. (navigation and screen appearance will vary with software version)

High-Rate

Rate: 32,000

Speed: 9.7 mph

Low-Rate

Rate: 32,000

Speed: 3.6 mph

Below are the failure thresholds for the health check:

## Voltage

<10 volts

>16 volts

## Amperage

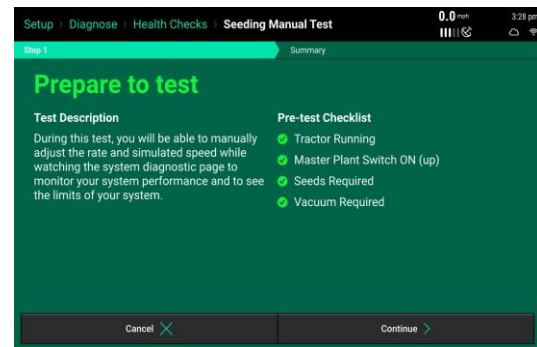
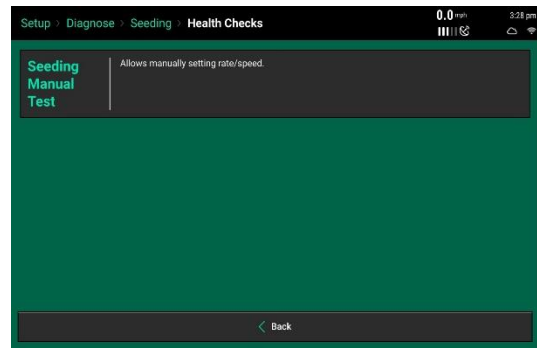
Low Rate: >1A

High Rate: >1.25A

## Duty Cycle

Low Rate: >30%

High Rate: >60%

A screenshot of the 'Seeding Manual Test' data table. The top bar shows 'Setup > Diagnose > Health Checks > Seeding Manual Test' and '0.0 mph' with a battery icon. The table has columns for 'Row', 'Actual', 'RPM', 'Cmd', 'Stability', 'Supply Volts', 'Drive Amps', and 'Duty Cycle'. The 'Rate Adjust' section shows '30,000' and the 'Speed Adjust' section shows '5.0 mph'. The table contains 10 rows of data.

Row	Actual	RPM	Cmd	Stability	Supply Volts	Drive Amps	Duty Cycle
1	28.0	28.0	28.0	99%	11.6	0.21	23%
2	28.1	28.0	28.0	99%	11.6	0.26	23%
3	28.0	28.0	28.0	99%	11.6	0.22	23%
4	28.1	28.0	28.0	99%	11.7	0.22	23%
5	27.9	28.0	28.0	99%	11.6	0.24	23%
6	28.0	28.0	28.0	99%	11.6	0.21	23%
7	28.0	28.0	28.0	100%	11.7	0.22	22%
8	28.0	28.0	28.0	99%	11.5	0.26	23%
9	28.0	28.0	28.0	99%	11.5	0.23	24%
10	28.2	28.0	28.0	99%	11.6	0.22	24%

In the event of a failed Health Check, below are some things to check.

- Voltage Failure: There is a low supply voltage. Check harnessing for damage and ensure the alternator is operating.
- Amperage Failure: Ensure voltage is within range. Check for obstructions or misaligned parts.
- Duty Cycle Failure: Check for obstructions or misaligned parts.