

Ag Leader[®] **Technology**



SureDrive™ Supplied Power Requirement Guide

PN: 2006468-ENG REV. A

Load Testing Procedure

- **NOTE:** This document is to be used by AgLeader dealers to determine if the Generator Kit is required for the SureDrive installation. Read through all instructions before starting procedure.
- **REQUIRED TOOLS:** A load tester is needed for this procedure. A variable load tester that can test at least 200 amps is recommended.

Testing Procedure: Part 1

1. Start by turning on tractor and all electronic accessories.
 - AC and fan on high
 - Radio
 - All lights on high
 - Display and all aftermarket products used during planting
2. Let tractor warm up to normal operating temperature.
 - **NOTE:** It is important to let the tractor's alternator heat up because an alternator is more efficient at cooler temperatures. The intent is to evaluate the worst case scenario.
3. Operate tractor at engine RPMs desired during planting.
4. Hook up load tester leads to tractor's appropriate battery terminals.
5. Check to see if battery and alternator are stable with no load.
6. Turn the dial on the load tester to 100 amps.
 - **NOTE:** If alternator holds battery voltage to 13.5v or higher, the tractor's alternator can be used to supply power to the SureDrive system. If not, proceed to Part 2 for further testing.

Testing Procedure: Part 2

- ★ **Important:** Part one is a general test that includes a safety factor to ensure that the tractor's alternator will sustain the power needs of the SureDrive system. Part 2 is a test that is a more precise assessment with less of a safety factor built in.
7. Using the chart on the following page, determine the total running amps of the SureDrive system.
 8. Continue with the tractor on, warmed up, operating at desired RPMs and all electronic accessories turned on just as in Part 1.
 9. Hook up load tester leads to tractor's appropriate battery terminals and check to see if battery and alternator are stable with no load.
 10. Turn the dial on the load tester to the calculated Total Running Amps from the Load Test Formula.
 - **NOTE:** If alternator holds battery voltage to 13.5v or higher, the tractor's alternator can be used to supply power to the SureDrive system. If not, the Generator Kit will be needed unless tractor alternator can be stepped up or system demand can be reduced.

	SureDrive Only					SureDrive with Row by Row			
Planter Rows	JD vac, eset	Vset	Case	Kinze/PP Finger		JD vac, eset	Vset	Case	Kinze/PP Finger
4	13 amps	11 amps	25 amps	23 amps		17 amps	19 amps	36 amps	33 amps
6	20 amps	17 amps	38 amps	34 amps		26 amps	27 amps	51 amps	46 amps
8	26 amps	23 amps	50 amps	45 amps		34 amps	34 amps	65 amps	60 amps
12	39 amps	34 amps	75 amps	68 amps		51 amps	50 amps	94 amps	86 amps