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## WAKESPEED WS500 TROUBLESHOOT GUIDE

### 1. VERIFY THE LED LIGHT STATUS ON THE WS500 REGULATOR

- If **GREEN** or **ORANGE**, go to **Step 2**
- If **RED**, go to **Step 3**

### 2. VERIFY THE VOLTAGE AT THE BATTERY & OUTPUT POST OF THE ALTERNATOR

Use a multimeter to verify the voltage at battery & output post of alternator. If your alternator is only reading battery voltage, we need to decipher if it is the Alternator or WS500 at fault.

- **Using your multimeter, back-probe the field wire to verify the voltage there. This needs to be tested with the field wire connected.**
- **What is the voltage at the blue field wire?**  
*Voltage reflects programming percentage from Wakespeed.*

### 3. IF THE WS500 IS BLINKING RED, IT IS COMMUNICATING AN ERROR CODE

- **Error codes are preceded by several red “bursts” or flashes, followed by a two-digit display of flashes that you will individually count out.**

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#### ***What could cause my Alternator to go out?***

*Uncontrolled disconnects, bad or loose connections, voltage drop, belt slippage or clutch pulley failure, improper installation, etc.*

Please let us know if you need further assistance with this. You can send a video of the WS500 display to [sales@nationsstarteralternator.com](mailto:sales@nationsstarteralternator.com) - In some instances we may ask for a log file. The vehicle needs to be running for a minimum of three minutes while capturing this file. Click on video link below for instructions on this process:

📺 [Logging | The Wakespeed Configuration & Monitoring Utility App](#)