

Diagnostic Trouble Codes (DTCs)—StarFire™ 6000 Receiver

Stored DTCs indicate that a problem has been detected. DTCs remain in memory until cleared by operator. It is possible that fault condition is no longer active.

DTC	Code Description	Problem	Solution
GR6 158.03	High Switched Voltage	StarFire™ Receiver is operating with high switched power (greater than 32 V).	Check machine's charging system, wiring, and connections.
GR6 158.04	Low Switched Voltage	StarFire™ Receiver is operating with low switched power (less than 9 V).	Check machine's charging system, wiring, and connections.
GR6 168.03	High Unswitched Voltage	Unswitched power to StarFire™ Receiver has high voltage (greater than 32 V).	Check machine's charging system, wiring, and connections.
GR6 168.04	Low Unswitched Voltage	Unswitched power to StarFire™ Receiver has low voltage (less than 9 V).	Check machine's charging system, wiring, and connections.
GR6 629.12	Reset Occurred	Internal hardware reset occurred.	Restart receiver and try again.
GR6 639.12	CAN Bus Messages Missing	StarFire™ messages are missing from CAN bus.	Check receiver harness for faults.
GR6 639.14	StarFire™ CAN in Bus Off State	Loss of CAN data.	Verify receiver is connected to machine and powered on. Check receiver harness for faults.
GR6 841.07	Lost Communication with Processor	StarFire™ Receiver has lost communication with GPS processor.	Disconnect receiver harness from machine to power off and try again.
GR6 2850.05	Reflected Antenna Power too High	Rover real time kinematic (RTK) reflected antenna power too high.	Check rover radio antenna for faults.
GR6 2854.31	Loss of Rover Radio Link	RTK radio is not responding.	Inspect receiver bracket harness for faults.
GR6 3141.14	GPS Receiver is not authorized to receive corrections on the RTK Base Station	GPS receiver is not authorized on this RTK network.	Try an alternate frequency.
GR6 3141.31	GPS corrections license has expired	SF3 subscription has expired.	Enter a valid SF3 license subscription activation code.
GR6 3144.13	StarFire™ receiver cannot link to StarFire™ network on alternate frequency	StarFire™ signal not found.	Try an alternate frequency.
GR6 516198.16	Base position readings exceeded.	Bad base position.	Check for obstructions or presence of signal interference around base receiver.
GR6 522394.13	TCM Not Calibrated	StarFire™ terrain compensation module (TCM) has not been calibrated.	Recent system changes indicate TCM was reinstalled. Calibrate TCM to ensure optimized system performance.
GR6 522552.11	StarFire™ Network Problem	StarFire™ network encountered a problem.	Resolution is in progress. Stand by.

GR6 523187.02	Incorrect license activation received from StarFire™ satellite	Invalid over-the-air license received.	Verify license type and date and try again.
GR6 523274.02	GPS Position Not Available	StarFire™ GPS position is not available.	GPS position cannot be computed. Verify receiver has an open view of sky.
GR6 523310.02	StarFire™ Memory Error	StarFire™ Receiver memory error has occurred.	Read and write failure. Restart receiver.
GR6 523348.07	TCM Communication Failure	TCM communication failure.	Restart receiver and try again.
GR6 523348.16	Reported temperature from IMU is outside the calibrated range	TCM temperature out of range.	Reported temperature from inertial measurement unit (IMU) is outside of calibrated range. This can lead to inaccurate pitch, roll, and heading.
GR6 523348.12	TCM Sensor Failure	TCM sensor failure.	Contact your John Deere dealer.
GR6 523441.31	GPS Height Not Set	StarFire™ GPS height dimension not set.	Enter TCM height.
GR6 523442.31	Fore/Aft Dimension Not Set	TCM fore/aft is not set.	Enter TCM fore/aft.
GR6 523773.03	CAN HI Voltage Too High	StarFire™ CAN HI voltage is too high.	Check machine's wiring.
GR6 523773.04	CAN HI Voltage Too Low	StarFire™ CAN HI voltage is too low	Check machine's wiring.
GR6 523774.03	CAN LO Voltage Too High	StarFire™ CAN LO voltage is too high.	Check machine's wiring.
GR6 523774.04	CAN LO Voltage Too Low	StarFire™ CAN LO voltage is too low	Check machine's wiring.
GR6 524209.16	Rover Too Far From Base	Rover RTK is too far from base station for valid corrections.	Drive closer to base station or connect to an alternate base station.
GR6 524257.14	RTK Base Station Survey Mode	RTK base station is in survey mode.	Corrections are unavailable while RTK base station is in survey mode.
GR6 524257.16	RTK Base Station Moved	RTK base station has been moved.	Corrections are not valid. Connect to an alternate base station.
GR6 524257.19	Multiple RTK Base Stations	Multiple RTK base stations detected.	Interference between neighboring RTK base stations. Adjust RTK network settings to unique values.

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