

Diagnostic Trouble Codes (DTC) List

Below is a list of most common Diagnostic Trouble Codes (DTC) with a possible solution. If the listed solution does not solve the code, or you experience a code not listed here, consult appropriate technical manual or contact your local John Deere dealer.

DTC Code	DTC Description	Possible Solution
000096.03	Fuel Sensor Voltage Incorrect	Check connections and wiring
000096.16	Fuel Sensor Reading Out of Range	Check connections and wiring
000100.01	Low Engine Oil Pressure	Check engine oil
000110.00	High Engine Coolant Temperature	Check engine coolant
000158.00	Regulated Voltage Above 18V	Check alternator wiring and connections
000158.01	Regulated Voltage Below 8V	Check alternator wiring and connections
000168.00	Battery Voltage Above 18V	Check battery and connections
000168.01	Battery Voltage Below 8V	Check battery and connections
000168.16	Battery Voltage Between 16V and 18V	Check battery and connections
000168.18	Battery Voltage Between 8V and 9V	Check battery and connections
000190.00	Engine RPM Out of Range High	Verify Engine RPM
000190.01	Engine RPM Out of Range Low	Verify Engine RPM
000190.02	Engine Speed Sensor Data Erratic or Missing	Check connections and wiring
000190.09	Engine Speed Sensor Communication Error	Check connections and wiring
000677.04	Starter Relay Short to Ground	Check relay, connections, and wiring
000920.03	Audible Alarm Short to High	Check connections and wiring
000920.04	Audible Alarm Short to Ground	Check connections and wiring
001638.00	High Hydraulic Oil Temperature	Check hydraulic oil
001713.00	Hydraulic Filter Restricted	Check hydraulic oil filter
001713.03	Hydraulic Filter Restriction Switch Short	Check switch, connections, and wiring
001713.31	Hydraulic Filter Restriction Switch Error	Check switch, connections, and wiring
003509.03	Controller Reference Voltage Out of Range High	Consult Appropriate Tech Manual
003509.04	Controller Reference Voltage Out of Range Low	Consult Appropriate Tech Manual
003510.03	Controller Reference Voltage Out of Range High	Consult Appropriate Tech Manual
003510.04	Controller Reference Voltage Out of Range Low	Consult Appropriate Tech Manual
516124.03	Fuel Hold or Engine Run Circuit Short to High	Check fuel solenoid, connections, and wiring
516124.04	Fuel Hold or Engine Run Circuit Short to Ground	Check fuel solenoid, connections, and wiring
516182.03	4WD Relay Short to High	Check relay, connections, and wiring
516182.04	4WD Relay Short to Ground	Check relay, connections, and wiring
516183.02	Right Proximity Sensor Voltage Data Incorrect	Check sensor, connections, and wiring
516183.07	Right Lift Arm Timing Incorrect	Inspect lift arm and lift system
516184.02	Left Proximity Sensor Voltage Data Incorrect	Check sensor, connections, and wiring
516184.07	Left Lift Arm Timing Incorrect	Inspect lift arm and lift system
516184.04	Left Proximity Sensor Short to Ground	Check sensor, connections, and wiring
516199.03	Raise/Lower Select Solenoid Short to High	Check solenoid, connections, and wiring

DTC Code	DTC Description	Possible Solution
516199.04	Raise/Lower Select Solenoid Short to Ground	Check solenoid, connections, and wiring
516200.03	Rear Mow Solenoid Short to High	Check solenoid, connections, and wiring
516200.04	Rear Mow Solenoid Short to Ground	Check solenoid, connections, and wiring
516201.03	Front Raise/Lower Solenoid Short to High	Check solenoid, connections, and wiring
516201.04	Front Raise/Lower Solenoid Short to Ground	Check solenoid, connections, and wiring
516202.03	Rear Raise/Lower Solenoid Short to High	Check solenoid, connections, and wiring
516202.04	Rear Raise/Lower Solenoid Short to Ground	Check solenoid, connections, and wiring
516206.03	Front (or single) Mow Solenoid Short to High	Check solenoid, connections, and wiring
516206.04	Front (or single) Mow Solenoid Short to Ground	Check solenoid, connections, and wiring
516708.00	Hydraulic Leak Detected (if equipped)	Check for hydraulic system leaks
520957.03	Park Brake Solenoid Short to High	Check solenoid, connections, and wiring
520957.04	Park Brake Solenoid Short to Ground	Check solenoid, connections, and wiring
521426.31	Incorrect Voltage Detected from Lower Switch	Check switch, connections, and wiring
521427.31	Incorrect Voltage Detected from Raise Switch	Check switch, connections, and wiring
521428.03	Lower Solenoid Short to High	Check solenoid, connections, and wiring
521428.04	Lower Solenoid Short to Ground	Check solenoid, connections, and wiring
521429.03	Raise Solenoid Short to High	Check solenoid, connections, and wiring
521429.04	Raise Solenoid Short to Ground	Check solenoid, connections, and wiring
522405.03	Brake Pressure Switch Above Normal or Shorted to High	Check connections and wiring
522405.04	Brake Pressure Switch Below Normal or Shorted to Low	Check connections and wiring
522405.31	Park Brake Manual Release Valve Open	Close park brake manual release valve
523324.02	Swash Plate Sensor Position Mismatch	Consult Appropriate Tech Manual
523324.03	Hydrostatic Swash Plate Sensor Short to High	Check sensor, connections, and wiring
523324.04	Hydrostatic Swash Plate Sensor Short to Ground	Check sensor, connections, and wiring
523324.10	Swash Plate Sensor Position Mismatch	Consult Appropriate Tech Manual
523324.13	Swash Plate Out of Neutral	Consult Appropriate Tech Manual
523324.16	Swash Plate Angle Out of Range High	Consult Appropriate Tech Manual
523324.18	Swash Plate Angle Out of Range Low	Consult Appropriate Tech Manual
523590.03	Forward Pedal Sensor Short to High	Check sensor, connections, and wiring
523590.04	Forward Pedal Sensor Short to Ground	Check sensor, connections, and wiring
523590.08	Forward Pedal Abnormal Output Frequency	Consult Appropriate Tech Manual
523590.13	Forward Pedal Not Calibrated	Consult Appropriate Tech Manual

DTC Code	DTC Description	Possible Solution
523590.14	Forward and Reverse Pedal Wiring Swapped	Consult Appropriate Tech Manual
523590.16	Forward Pedal Signal Above Normal Range	Consult Appropriate Tech Manual
523590.18	Forward Pedal Signal Below Normal Range	Consult Appropriate Tech Manual
523590.31	Forward Pedal Channel Mismatch	Consult Appropriate Tech Manual
523591.03	Reverse Pedal Sensor Short to High	Check sensor, connections, and wiring
523591.04	Reverse Pedal Sensor Short to Ground	Check sensor, connections, and wiring
523591.08	Reverse Pedal Abnormal Output Frequency	Consult Appropriate Tech Manual
523591.13	Reverse Pedal Not Calibrated	Consult Appropriate Tech Manual
523591.14	Reverse and Forward Pedal Wiring Swapped	Consult Appropriate Tech Manual
523591.16	Reverse Pedal Signal Above Normal Range	Consult Appropriate Tech Manual
523591.18	Reverse Pedal Signal Below Normal Range	Consult Appropriate Tech Manual
523591.31	Reverse Pedal Channel Mismatch	Consult Appropriate Tech Manual
523735.03	FWD/REV Solenoid Short to High	Check solenoid, connections, and wiring
523735.04	FWD/REV Solenoid Short to Ground	Check solenoid, connections, and wiring
523899.03	Work Light Relay Short to High	Check relay, connections, and wiring
524069.03	Reverse Solenoid Short to High	Check solenoid, connections, and wiring
524069.04	Reverse Solenoid Short to Ground	Check solenoid, connections, and wiring
524069.13	Reverse E-Hydro Solenoid Not Calibrated	Consult Appropriate Tech Manual
524071.03	Forward Solenoid Short to High	Check solenoid, connections, and wiring
524071.04	Forward Solenoid Short to Ground	Check solenoid, connections, and wiring
524071.13	Forward E-Hydro Solenoid Not Calibrated	Consult Appropriate Tech Manual

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