

AutoTrac™ Controller—Raven Diagnostic Trouble Codes (DTC)



PC8663-UN-05NOV14

Menu Button



PC8655-UN-05AUG05

Message Center Button (With Info Icon)



PC8669-UN-05AUG05

Trouble Codes Softkey

Select Menu > Message Center > Trouble Codes softkey. A list of controllers is displayed and controllers with diagnostic trouble codes are indicated.

Access individual controllers to view codes for that controller. Select ACI.001 to view AutoTrac™ Controller — Raven diagnostic trouble codes. Select Show All button to display codes from all controllers.

Communicate codes to a John Deere dealer to assist in diagnosing machine problems.

Code	Description
168.03	AutoTrac™ Controller Integrated (ACI) unswitched supply voltage circuit is high. Check wiring harness and power supply.
168.04	ACI unswitched supply voltage out of range low. Unswitched supply voltage is low. Check wiring harness and power supply.
232.09	Loss of StarFire™ differential status message. Check global positioning system (GPS) connection. Disconnect receiver harness and reconnect.
517.09	GPS speed message not available on CAN Bus for more than 5 seconds. Check GPS connection.
628.12	Indicates control unit being reprogrammed. Contact your John Deere dealer to reprogram steering controller.
630.13	Indicates incomplete calibration of steering valve. Wheel angle sensor (WAS) calibration incomplete. Restart WAS calibration. (See AutoTrac™ Controller–Raven Calibration.)
1504.09	Seat switch message not available. Check wiring harness to seat switch. If no seat switch is present, change operator presence to activity monitor.

Code	Description
1504.14	Operator out of seat during AutoTrac™. Check wiring harness to seat switch.
1504.31	Operator out of seat during AutoTrac™ - within 2 to 7 seconds. Check wiring harness to seat switch.
1807.05	Steering input device (SID) 1 channel current out of range low. Check wiring harness to SID.
1807.06	Steering input device 1 channel current out of range high. Check wiring harness to SID.
3509.03	Indicates sensor supply voltage (circuit code # 733) for steering wheel pressure sensor and (or) wheel angle position sensor out of range high. Check wiring harness to each component.
3509.04	Indicates sensor supply voltage (circuit code # 733) for steering wheel pressure sensor and (or) wheel angle position sensor out of range low. Check wiring harness to each component.
3509.05	Steering wheel position sensor 1 circuit current low. Check wiring harness to sensor.
3509.06	Steering wheel position sensor 1 circuit current high. Check wiring harness to sensor.
520431.05	Isolation shutoff valve circuit current low. Check wiring harness to hydraulic valve.
520431.06	Isolation shutoff valve circuit current high. Check wiring harness to hydraulic valve.
520826.09	Communication with ISO machine cannot be established. Verify all wiring harnesses are connected and ISO connector is clean and free of debris.
522385.01	Indicates AutoTrac™ Controller on-off switch on machine is not ON. Switch AutoTrac™ master switch to ON position.
522387.07	No wheel motion being sensed during active AutoTrac™ while electro-hydraulic (EH) valve is commanded. Indicates steering control unit not receiving wheel angle position sensor signal. Check wiring harness and ensure sensor is clear of debris.
522390.09	External guidance messages missing, security not satisfied, or invalid implement request. Return to park and verify implement connections to attempt machine recovery.
522394.09	Terrain compensation module (TCM) message not available. Verify TCM is turned on and calibrated. (Reference StarFire™ Receiver Operator's Manual for TCM calibration instructions.)
523698.09	GreenStar™ Display Parallel Tracking™ message not available. No communication data. Check display and receiver wiring harness connections.
523767.02	AutoTrac™ resume switch circuits conflict. Resume switch data invalid. Check resume switch wiring harness.
523795.02	Indicates steering valve orientation incorrect. Check if steering valve right and left circuit codes are switched. Electro-hydraulic (EH) valve appears to be plumbed backwards. Contact your John Deere dealer.
523795.11	Left and right EH valve deadbands during calibration are significantly different. Indicates inconsistency in steering valve deadbands. Check hydraulic hoses and fittings and recalibrate system. If trouble code persists, contact your John Deere dealer.
523795.12	EH valve or harness faulty. EH valve shows no current draw. Check wiring harness to EH valve.
523795.13	Left or Right EH valve deadband is out of range. Incomplete valve calibration. Recalibrate system.
523824.05	SID 2 channel current out of range high. Check wiring harness to SID.
523824.06	SID 2 channel current out of range low. Check wiring harness to SID.
523826.0	WAS primary signal high. Sensor analog to digital converter (ADC) value is too high. Check wiring harness to WAS.
523826.01	WAS primary signal low. Sensor ADC value is too low. Check wiring harness to WAS.
523826.02	Indicates WAS direction orientation is reversed. Mount WAS in the correct orientation and recalibrate WAS. If problem persists, contact your John Deere dealer.
523826.07	Indicates WAS range of movement was too small during calibration. Check WAS hardware for correct installation. Recalibrate WAS. If problem persists, contact your John Deere dealer.

Code	Description
523826.10	Wheel angle has changed by more than five degrees in two seconds. SID disengage has not been detected in last 30 seconds. Possible faulty wiring harnesses or faulty pressure transducer. Check wiring harness and hardware for each component.
523826.14	Primary and secondary WAS conflict. Check wiring harness to WAS.
524221.09	Machine yaw rate message missing. Check wiring harness to GPS receiver.

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