

Diagnostic Trouble Codes

When either a Service Alert or Information indicator is displayed it is suggested the tractor be placed in park or engine shut off. Restart the engine to verify if the active Diagnostic Trouble Code reappears before contacting your John Deere dealer. Sometimes, the code can be corrected by resetting the communication messages when tractor is restarted.

Some Service Alerts and Information indicators can be acknowledged and display cleared by pressing the select switch on the CommandCenter. The display will return to a normal mode allowing tractor function to continue. However, diagnostic trouble code may reappear at a later date if condition still exists. For an explanation of STOP, Service Alert, Information Indicators and Diagnostics Trouble Codes refer to section 15 in this document.

OU1092A,0000020 -19-28SEP06-1/27

Diagnostic Trouble Code	Display	Solution
Armrest Control Unit Diagnostic Trouble Codes (ACU)		
ACU 000158.04	Rear PTO system	ACU Switched Supply Voltage Low. Visually inspect around the batteries and alternator for any visual signs of damage or accumulated debris. Have John Deere dealer repair as soon as possible.
ACU 000177.17	Transmission Oil Temperature Low	Engine Speed Limited Due to Cold Oil. Slow engine speed to less than 1500 rpm until hydraulic oil temp is above -5 °C (23 °F).
ACU 000581.07	Transmission System	Transmission Not Responding to Command. Have John Deere dealer repair as soon as possible.
ACU 000974.02 ACU 000974.03	Operator Controls	Hand Throttle Circuit Voltage Problem. Have John Deere dealer repair at earliest convenience.

ACU 000974.04	Operator Controls	Rear PTO Circuit Voltage Problem. Have John Deere dealer repair at earliest convenience.
ACU 001079.02 ACU 001079.03 ACU 001079.04	Operator Controls	ACU Sensor Supply 1 Voltage Problem. Have John Deere dealer repair as soon as possible.
ACU 001080.02 ACU 001080.03 ACU 001080.04	Operator Controls	ACU Sensor Supply 2 Voltage Problem. Have John Deere dealer repair as soon as possible.
ACU 002000.09	Communication System	ECU Message Missing. Check fuse F24. Have John Deere dealer repair as soon as possible.
ACU 002003.09	Communication System	PTI or PTP Message Missing. Have John Deere dealer repair as soon as possible.
ACU 002020.09	Communication System	SFA Message Missing. Have John Deere dealer repair as soon as possible.
ACU 002049.09	Communication System	CAB Message Missing. Check fuse F22. Have John Deere dealer repair as soon as possible.
ACU 523775.02	Single Lever Control	Single Lever Control (If Equipped) - Hand Presence Switch Problem. Move hand to show operator is in place. If code still exists, have John Deere dealer repair at earliest convenience.
ACU 523776.02 ACU 523801.02 ACU 523804.02 ACU 523804.03 ACU 523804.04 ACU 523805.02 ACU 523805.03	Single Lever Control	Single Lever Control Problem. To keep working, use SCV III and IV controls. Go to CommandCenter and disable single lever control. Have John Deere dealer repair at earliest convenience.

**ACU
523805.04**

**ACU
523923.02**

**ACU
523923.03**

**ACU
523923.04**

Operator Controls

SCV I Control Lever Switch/Sensor Problem. Have John Deere dealer repair at earliest convenience.

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**Diagnostic
Trouble Code**

Display

Solution

**ACU
523953.02**

**ACU
523953.03**

**ACU
523953.04**

Operator Controls

Speed Control Lever Circuit Problem. Have John Deere dealer repair at earliest convenience.

**ACU
523954.07**

Operator Controls

Set Speed Adjuster Problem. Have John Deere dealer repair at earliest convenience.

**ACU
523955.31**

Transmission System

Engine Load to High in Manual Mode. Reduce load and/or ballast. If code returns, have John Deere dealer repair at earliest convenience.

**ACU
523960.17**

**ACU
523960.31**

Operator Not In Seat

Operator Not Seated or Faulty Sensor. Check and repair if needed.

**ACU
523961.02**

Transmission System

Park Engaged While in Gear. Restart tractor, operate tractor in forward gear. If code returns, have John Deere dealer repair at earliest convenience.

**ACU
523961.07**

Transmission Not In Park

Park Lock Engagement Problem. Restart tractor. Operate vehicle slowly in forward gear. If code returns, have John Deere dealer repair at earliest convenience.

ACU 523962.31	MFWD System	MFWD Speed Incorrect. Is a function of traction control. Very important if pulling trailers. Have John Deere dealer repair at earliest convenience.
ACU 523966.31	Transmission Come Home Mode	Have John Deere dealer repair as soon as possible.
ACU 523970.02 ACU 523970.03 ACU 523970.04	Operator Controls	Front Hitch Circuit Problem. Have John Deere dealer repair at earliest convenience.
ACU 524020.31	Operator Controls	Transmission In Gear At Start-Up. Restart vehicle with transmission in park. If code returns, have John Deere dealer repair at earliest convenience.
ACU 524014.31 ACU 524017.13 ACU 524017.31 ACU 524018.31 ACU 524019.31	Operator Controls	Left-Hand Reverser Problem. Have John Deere dealer repair at earliest convenience.
ACU 524021.31	Operator Controls	Multiple Reverser Switches Conflict. Have John Deere dealer repair at earliest convenience.
ACU 524022.31 ACU 524023.31 ACU 524024.31 ACU 524025.31 ACU 524026.31 ACU 524027.31 ACU 524030.31 ACU 524031.31 ACU	Operator Controls	Left-Hand Reverser Circuit Problem. Have John Deere dealer repair at earliest convenience.

524032.31
ACU
524034.31
ACU
524036.31

ACU
524101.02

Operator Controls

Front Hitch Valve Control Lever Switch/Sensor Circuit Conflict. Have John Deere dealer repair at earliest convenience.

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**Diagnostic
Trouble Code**

Display

Solution

ACU
524101.03
ACU
524101.04

Operator Controls

Front Hitch Valve Control Lever Sensor Circuit Voltage Problem. Have John Deere dealer repair at earliest convenience.

ACU
524102.02

Operator Controls

SCV Control Lever Switch/Sensor Circuit Conflict. Have John Deere dealer repair at earliest convenience.

ACU
524102.03
ACU
524102.04

Operator Controls

SCV Control Lever Sensor Circuit Voltage Problem. Have John Deere dealer repair at earliest convenience.

ACU
524103.02

ACU
524103.03

ACU
524103.04

ACU
524104.02

Operator Controls

SCV Control Lever Circuit Problem. Have John Deere dealer repair at earliest convenience.

ACU
524104.03

ACU
524104.04

ACU
524105.02

ACU
524105.03

ACU
524105.04

ACU
524212.02

ACU
524212.03

Operator Controls

Rear Hitch Control Lever Circuit Problem. Have John Deere dealer repair at earliest convenience.

ACU
524212.04

ACU
524224.02

ACU
524224.14

Operator Controls

Rear PTO Switch Circuit Problem. Have John Deere dealer repair at earliest convenience.

ACU
524224.31

Operator Controls

Transmission Relay Circuit Problem. Have John Deere dealer repair at earliest convenience.

ACU
524254.31

Operator Controls

Transmission Enable Relay Circuit Fault. Have John Deere dealer repair at earliest convenience.

ActiveSeat Unit Diagnostic Trouble Codes (ASU)

ASU
524002.31

ActiveSeat System

Seat Pressure Control Solenoid Problem. Have John Deere dealer repair at earliest convenience.

ASU
524008.13

ActiveSeat System

ASU Not Calibrated. Have John Deere dealer repair as soon as possible.

ClimaTrak Display Codes (ATC) - If Equipped

IMPORTANT: Check the cleanliness of the condenser at the front of the tractor and make sure the cab recirculation air filter is not plugged for all ATC diagnostic trouble codes. If the codes return, contact your John Deere dealer as soon as possible.

Front Brake Control Unit Diagnostic Trouble Codes (BRC)

BRC
000158.04

BRC
000168.04

Secondary Brake System

Switched Supply Voltage Problem. Visually inspect around the batteries and alternator for any visual signs of damage or accumulated debris. Restart vehicle. If code returns, have John Deere dealer repair as soon as possible.

BRC
000629.12

BRC
000630.13

Secondary Brake System

BRC Control Unit Problem. Have John Deere dealer repair as soon as possible.

Diagnostic Trouble Code	Display	Solution
BRC 001079.03 BRC 001079.04	Secondary Brake System	Sensor Supply Voltage Problem. Have John Deere dealer repair as soon as possible.
BRC 001079.05 BRC 001079.06		
BRC 52280.00	Secondary Brake System	Secondary Brake Pressure High. Have John Deere dealer repair as soon as possible.
BRC 52280.01	Secondary Brake System	Secondary Brake Pressure Low. Have John Deere dealer repair as soon as possible.
BRC 523652.02	Hydraulic System	Control Unit Attached to Incompatible Harness. Have John Deere dealer repair as soon as possible.
BRC 523837.00 BRC 523837.03 BRC 523837.04 BRC 523837.13	Secondary Brake System	Rear Brake Pressure Circuit Problem. Have John Deere dealer repair as soon as possible.
BRC 523840.00 BRC 523840.01 BRC 523840.03 BRC 523840.04 BRC 523840.13	Secondary Brake System	Front Brake Pressure Circuit Problem. Have John Deere dealer repair as soon as possible.
BRC 523844.05 BRC 523844.06	Secondary Brake System	Front Brake Solenoid Circuit Problem. Have John Deere dealer repair as soon as possible.

BRC
523844.13

BRC
523910.02 Secondary Brake System Control Unit Problem. Have John Deere dealer repair as soon as possible.

BRC
524016.04 Secondary Brake System Switched Supply Voltage Problem. Check Fuse F24. Restart vehicle. If code returns, have John Deere Dealer repair as soon as possible.

BRC
524157.19 Secondary Brake System Right Brake Pedal Switch Problem. Have John Deere dealer repair as soon as possible.

BRC
524162.19
BRC
524169.19 Secondary Brake System Left Brake Pedal Switch Problem. Have John Deere dealer repair as soon as possible.

Cab Control Unit Diagnostic Trouble Codes (CAB)

CAB
000091.02

CAB
000091.03 Operator Controls Foot Throttle Sensor Problem. Have John Deere dealer repair at earliest convenience.

CAB
000091.04

CAB
001079.02

CAB
001079.03 Operator Controls CAB Supply Voltage Problem. Have John Deere dealer repair as soon as possible.

CAB
001079.04

CAB
001504.30

Operator Controls Seat Switch Circuit Problem. Have John Deere dealer repair at earliest convenience.

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**Diagnostic
Trouble Code**

Display

Solution

CAB
002876.02

Operator Controls

Turn Signal Switch Problem. Have John Deere dealer repair at earliest convenience.

CAB 523908.02	Operator Controls	Rear PTO Remote Switch Problem. Have John Deere dealer repair at earliest convenience.
CAB 523922.31	Hand Brake On	Secondary Hand Brake on While Moving. Disengage hand brake. If code returns, have John Deere dealer repair as soon as possible.
CAB 524014.31	Operator Controls	Left-Hand Reverser Circuit Problem. Have John Deere dealer repair at earliest convenience.
CAB 524016.04	Operator Controls	CAB Switched Power Voltage Problem. Check fuse F15. Restart vehicle. If code returns, have John Deere dealer repair returns at earliest convenience.
CAB 524017.13	Operator Controls	Left-Hand Reverser Lever Type Not Selected. Have John Deere dealer repair at earliest convenience.
CAB 524017.31	Operator Controls	Left-Hand Reverser Power Circuit Fault. Have John Deere dealer repair at earliest convenience.
CAB 524018.31 CAB 524019.31	Operator Controls	Left-Hand Reverser Transition Fault. Lever is held in an invalid position. Move lever to PARK. Have John Deere dealer repair at earliest convenience.
CAB 524020.31	Power Up in Gear	Left-Hand Reverser in Gear at Power Up. Place reverser lever in PARK position. Restart vehicle. If code returns, have John Deere dealer repair at earliest convenience.
CAB 524021.31 CAB 524022.31 CAB 524023.31 CAB 524024.31 CAB 524025.31 CAB 524026.31 CAB 524027.31	Operator Controls	Left-Hand Reverser Circuit Problem. Have John Deere dealer repair at earliest convenience.
CAB 524030.31	Operator Controls	Left-Hand Reverser Circuit Problem. Have John Deere dealer repair at earliest convenience.

CAB
524031.31
CAB
524032.31
CAB
524034.31
CAB
524036.31

CAB
524166.02
CAB
524166.03
CAB
524166.04
CAB
524166.13
CAB
524166.30

Operator Controls

Right Brake Pedal Circuit Problem. Have John Deere dealer repair at earliest convenience.

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**Diagnostic
Trouble Code**

Display

Solution

CAB
524169.02
CAB
524169.03
CAB
524169.04
CAB
524169.13

Operator Controls

Left Brake Pedal Circuit Problem. Have John Deere dealer repair at earliest convenience.

CAB
524169.30

CAB
524173.02
CAB
524173.03
CAB
524173.04

Operator Controls

Clutch Pedal Sensor Circuit Conflict. Have John Deere dealer repair at earliest convenience.

Central Control Unit Diagnostic Trouble Codes (CCU)

CCU 000090.03 CCU 000090.04	Rear PTO System	Rear PTO Oil Temperature Circuit Problem. Have John Deere dealer repair at earliest convenience.
CCU 000096.03	Fuel Level System	Fuel Level Circuit Problem. Turn key switch to RUN position (engine off). Check fuel level. If code returns, have John Deere dealer repair at earliest convenience.
CCU 000096.17	Fuel Level Low	Turn key switch to RUN position (engine off). Check fuel level. If code returns have John Deere dealer repair at earliest convenience.
CCU 000107.00	Engine Air Filter Restricted	Clean or replace engine air filter.
CCU 000107.03 CCU 000107.04	Air Filter System	Engine Air Filter Restriction Sensor Voltage Problem. Have John Deere dealer repair at earliest convenience.
CCU 000107.15	Engine Air Filter Restricted	Engine Air Filter Becoming Restricted. Clean or replace engine air filter.
CCU 000107.16	Engine Air Filter Restricted	Engine Air Filter Restricted, Power Derated. Clean or replace engine air filter.
CCU 000569.05	Differential Lock System	Rear Differential Lock Circuit Problem. Have John Deere dealer repair at earliest convenience.
CCU 000976.04	Rear PTO System	Rear PTO Sensor Voltage Problem. Have John Deere dealer repair at earliest convenience.
CCU 001079.03 CCU 001079.04	Electrical system	CCU Sensor Supply Voltage Problem. Have John Deere dealer repair at earliest convenience.
CCU 001086.18	Air Brake Pressure Low	This code will generate when vehicle is started and air brake pressure is insufficient to disengage trailer brakes. It may be necessary to wait over 1 minute for brakes to release. Bleed excess moisture from air brake reservoir. If code returns, have John Deere dealer repair as soon as possible.

CCU 001638.00	Hydraulic Oil Temperature High	Check hydraulic oil level in sight glass on rear differential. Inspect transmission/hydraulic oil cooler. If code returns, have John Deere dealer repair immediately.
CCU 001638.03 CCU 001638.04	Hydraulic System	Hydraulic Oil Temperature Circuit Problem. Have John Deere dealer repair at earliest convenience.

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Diagnostic Trouble Code	Display	Solution
CCU 001638.16	Hydraulic Oil Temperature High	Check hydraulic oil level in sight glass on rear differential. Inspect transmission-hydraulic oil cooler. Restart vehicle. Operate vehicle at rated speed for 1 - 2 minutes. If code returns, have John Deere dealer repair as soon as possible.
CCU 001713.00	Hydraulic Oil Filter Restricted	Check and/or replace hydraulic oil filter. Restart vehicle. Operate vehicle at rated speed for 1 - 2 minutes. If code returns, have John Deere dealer repair as soon as possible.
CCU 001883.0	Rear PTO Speed High	Rear PTO Shaft Turning Too Fast. Check that PTO shaft and PTO speed lever match. Restart vehicle. If code returns, have John Deere Dealer repair at earliest convenience.
CCU 001883.01	Rear PTO System	Rear PTO Underspeed. Check that PTO shaft and PTO speed lever match. Have John Deere dealer repair if code returns at earliest convenience.
CCU 001883.13	Rear PTO System	Rear PTO Calibration not Performed or Incomplete. Have John Deere dealer repair as soon as possible.
CCU 002392.05	Backup alarm system	Back Up Alarm Circuit Fault. Have John Deere dealer repair as soon as possible.
CCU 523851.02	Implement Management System	IMS Aborted Sequence Because of Lack of Response from Hitch/SCV Control Unit. Have John Deere dealer repair at earliest convenience.

CCU 524016.04	Electrical system	CCU Switched Supply Voltage Low. Have John Deere dealer repair at earliest convenience.
CCU 524223.03	Differential Lock System	Leaving Differential Lock on for more than 15 seconds will generate this code. Have John Deere dealer repair at earliest convenience.
CCU 524224.14	PTO Switch	PTO is Disabled but the Switch is on. Turn all PTO switches OFF. Restart vehicle. If code returns, have John Deere dealer repair at earliest convenience.
CCU 524235.05	MFWD System	MFWD Circuit Problem. Have John Deere dealer repair at earliest convenience.
CCU 524236.31	Implement Management System	IMS was turned off while commanding an MFWD mode other than what the MFWD switch has commanded. Have John Deere dealer repair at earliest convenience.
CCU 524251.31	Rear PTO ON	PTO Engaged while Operator not Present. Have John Deere dealer repair as soon as possible.
CCU 524252.05	Rear PTO System	Rear PTO Solenoid Circuit Problem. Have John Deere dealer repair at earliest convenience.
CCU 524255.31	Remote PTO Enabled	Rear PTO Remote Enable Switch ON and Rear PTO Fender Switch OFF. This is normal and serves as a safety alert.

Cab Load Center (CLC) Diagnostic Trouble Codes

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Diagnostic Trouble Code	Display	Solution
CLC 000158.00 CLC	Electrical System	CAB Switched Supply Voltage Problem. Have John Deere dealer repair as soon as possible.

000158.01
CLC
000158.17
CLC
000158.18

CLC 002050.06	Electrical System	CLC Circuit Current High. Remove all operator customized accessories such as flood lights, hazard lights and window wipers. Have John Deere dealer repair at earliest convenience.
CLC 002360.05 CLC 002360.06	Lighting System	Rear Fender Flood Light Circuit Current Problem. Check condition of light bulb. If code still exists, have John Deere dealer repair at earliest convenience.
CLC 002362.05 CLC 002362.06	Lighting System	Rear Roof Flood Light Circuit Current Problem. Check condition of light bulb. If code still exists, have John Deere dealer repair at earliest convenience.
CLC 002364.05 CLC 002364.06	Lighting System	Mid Body Flood Light Circuit Current Problem. Check condition of light bulb. If code still exists, have John Deere dealer repair at earliest convenience.
CLC 002366.05 CLC 002366.06	Lighting System	Side Roof Flood Light Circuit Current Problem. Check condition of light bulb. If code still exists, have John Deere dealer repair at earliest convenience.
CLC 002368.05 CLC 002368.06	Lighting System	Left Turn Signal Light Circuit Current Problem. Check condition of light bulb. If code still exists, have John Deere dealer repair at earliest convenience.
CLC 002370.05 CLC 002370.06	Lighting System	Right Turn Signal Light Circuit Current Problem. Check condition of light bulb. If code still exists, have John Deere dealer repair at earliest convenience.
CLC 002372.05 CLC 002372.06	Lighting System	Brake Light Circuit Current Problem. Check condition of light bulb. If code still exists, have John Deere dealer repair at earliest convenience.

CLC 002378.05 CLC 002378.06	Lighting System	Tail Light Circuit Current Problem. Check condition of light bulb. If code still exists, have John Deere dealer repair at earliest convenience.
CLC 002394.05 CLC 002394.06	Lighting System	Trailer Flood Light Circuit Overload or Short Circuit. Unplug 7-pin connector to verify code still exists. Have John Deere dealer repair at earliest convenience.
CLC 002863.02	Wiper System	Front Wiper Switch Circuit Fault. Cycle switch ON and OFF. If code still exists, have John Deere dealer repair at earliest convenience.
CLC 002865.02	Wiper System	Rear Wiper Switch Circuit Fault. Cycle switch ON and OFF. If code still exists, have John Deere dealer repair at earliest convenience.
CLC 002872.02	Lighting System	Main Light Switch Circuit Fault. Cycle switch ON and OFF. If code still exists, have John Deere dealer repair at earliest convenience.
CLC 522310.06	Electrical System	ELX Output Circuit Current High. Have John Deere dealer repair at earliest convenience.
CLC 522433.05 CLC 522433.06	Wiper System	Rear Wiper Motor Circuit Current Problem. Have John Deere dealer repair at earliest convenience.
CLC 522434.05 CLC 522434.06	Wiper System	Front Wiper Motor Low Speed Circuit Current Problem. Have John Deere dealer repair at earliest convenience.

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Diagnostic Trouble Code	Display	Solution
CLC 522435.05 CLC 522435.06	Wiper System	Front Wiper Motor High Speed Circuit Current Problem. Have John Deere dealer repair at earliest convenience.

CLC 523907.02	PTO System	PTO Remote Enable Switch Problem. Have John Deere dealer repair at earliest convenience.
CLC 524016.06	Electrical System	Communication Bus or Vehicle Load Center Wakeup Circuit Current High. Have John Deere dealer repair at earliest convenience.
CLC 524035.02	Operator Controls	Transmission Selector Circuit Fault. Have John Deere dealer repair at earliest convenience.
CLC 524037.02	Operator Controls	Auto Mode and Brake Assist Mode High. Have John Deere dealer repair at earliest convenience.

Engine Control Unit Diagnostic Trouble Codes (ECU)

ECU 000097.03 ECU 000097.04	Engine System	Water In Fuel Signal Problem. Have John Deere dealer repair as soon as possible.
ECU 000097.16	Engine Water Separator Full	Remove water from separator.
ECU 000100.01	Engine Oil Pressure Low	Check engine oil level. If code returns, have John Deere dealer repair immediately.
ECU 000100.03 ECU 000100.04	Engine System	Engine Oil Pressure Input Voltage Problem. Have John Deere dealer repair as soon as possible.
ECU 000100.18	Engine Oil Pressure Low	Check engine oil level. If code returns, have John Deere dealer repair as soon as possible.
ECU 000100.31	Engine Oil Pressure	Sensor Indicates Oil Pressure When Engine Is OFF. Have John Deere dealer repair at earliest convenience.
ECU 000102.02	Engine System	Manifold Air Pressure Sensor Problem. Have John Deere dealer repair at earliest convenience.
ECU 000102.03 ECU 000102.04	Engine System	Manifold Air Pressure Voltage Problem. Have John Deere dealer repair as soon as possible.

ECU 000103.00	Engine System	Turbo Speed Overspeed. If operating at high altitude, reduce load on engine. If problem continues, have John Deere dealer repair as soon as possible.
ECU 000103.05 ECU 000103.06 ECU 000103.08 ECU 000103.31	Engine System	Turbo Speed Error. Have John Deere dealer repair as soon as possible.
ECU 000105.00	Engine Air Temperature High	Intake Air Temperature High. Check coolant level. Inspect and clean radiator. If code returns, have John Deere dealer repair immediately.
ECU 000105.03 ECU 000105.04	Engine System	Manifold Air Temperature Voltage Problem. Have John Deere dealer repair as soon as possible.
ECU 000105.15	Engine Air Temperature High	Manifold Air Temperature is above Specification. Check coolant level. Inspect and clean radiator. If code returns, have John Deere dealer repair as soon as possible.

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Diagnostic Trouble Code	Display	Solution
ECU 000105.16	Engine Air Temperature High	Manifold Air Temperature Moderately High. Check coolant level. Inspect and clean radiator. If code returns, have John Deere dealer repair as soon as possible.
ECU 000108.02	Engine System	Barometric Pressure Sensor Problem. Have John Deere dealer repair at earliest convenience.
ECU 000110.00	Engine Coolant Temperature High	Check coolant level. Inspect and clean radiator. If code returns, have John Deere dealer repair immediately.

ECU 000110.03 ECU 000110.04	Engine System	Engine Coolant Temperature Input Voltage Problem. Have John Deere dealer repair as soon as possible.
ECU 000110.15	Engine Coolant Temperature High	Check coolant level. Inspect and clean radiator. If code returns, have John Deere dealer repair at earliest convenience.
ECU 000110.16	Engine Coolant Temperature High	Check coolant level. Inspect and clean radiator. If code returns, have John Deere dealer repair as soon as possible.
ECU 000110.17	Engine Coolant Temperature Low	Engine Coolant Temperature Low. Warm up engine. If problem continues, have John Deere dealer repair as soon as possible.
ECU 000157.03 ECU 000157.04	Engine System	Fuel Rail Pressure Input Voltage Problem. Have John Deere dealer repair immediately.
ECU 000157.10	Engine System	Fuel Rail Pressure Loss Detected. Have John Deere dealer repair as soon as possible.
ECU 000157.17	Engine System	Fuel Rail Pressure Not Developed. Have John Deere dealer repair as soon as possible.
ECU 000158.17	Engine System	Engine Control Unit Power Down Error. Have John Deere dealer repair at earliest convenience.
ECU 000174.00	Fuel Temperature High	Fuel Temperature High. Check coolant level. Inspect and clean radiator. Check to see if code returns. Have John Deere dealer repair immediately.
ECU 000174.03 ECU 000174.04	Engine System	Fuel Temperature Input Voltage Problem. Have John Deere dealer repair as soon as possible.
ECU 000174.16	Fuel Temperature High	Check coolant level. Inspect and clean radiator and fuel cooler. If code returns, have John Deere dealer repair as soon as possible.
ECU 000189.00	No text	Engine Speed Derate.

ECU 000190.00	Engine Speed High	Result of downshifting, throttle back. If code returns, have John Deere dealer repair immediately.
ECU 000237.02 ECU 000237.13 ECU 000237.31	Identification System	Vehicle Serial Number Invalid. Have John Deere dealer repair as soon as possible.
ECU 000412.00	Engine System	EGR Temperature Sensor Input Voltage Problem. Most Sever Level. Have John Deere dealer repair immediately.

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Diagnostic Trouble Code	Display	Solution
ECU 000412.03 ECU 000412.04	Engine System	EGR Temperature Sensor Input Voltage Problem. Have John Deere dealer repair as soon as possible.
ECU 000412.15 ECU 000412.16	Engine System	EGR Temperature Higher than Expected. Have John Deere dealer repair as soon as possible.
ECU 000611.03 ECU 000611.04	Engine System	Electronic Injector Wiring Problem. Have John Deere dealer repair as soon as possible.
ECU 000627.01	Engine System	Electronic Injector Supply Voltage Problem. Have John Deere dealer repair as soon as possible.
ECU 000629.12	Engine System	ECU Memory Problem. Have John Deere dealer repair as soon as possible.
ECU 000629.13	Engine System	ECU Programming Error. Have John Deere dealer repair immediately.

ECU 000636.05	Engine System	Cam Sensor Open. Have John Deere dealer repair as soon as possible.
ECU 000636.06	Engine System	Cam Sensor Shorted. Have John Deere dealer repair as soon as possible.
ECU 000636.02 ECU 000636.08 ECU 000636.10	Engine System	Pump Position Sensor Problem. Have John Deere dealer repair at earliest convenience.
ECU 000637.02 ECU 000637.05 ECU 000637.06 ECU 000637.07	Engine System	Crank Position Sensor Problem. Have John Deere dealer repair as soon as possible.
ECU 000637.08 ECU 000637.10	Engine System	Crank Position Input Problem. Have John Deere dealer repair as soon as possible.
ECU 000641.04	Engine System	Turbo Actuator Supply Voltage Low or Intermittent. Have John Deere dealer repair as soon as possible.
ECU 000641.05 ECU 000641.13	Engine System	Have John Deere dealer repair as soon as possible.
ECU 000641.12	Engine System	Communication on Error to Turbo. Have John Deere dealer repair as soon as possible.
ECU 000641.16	Engine System	Turbo Actuator Over Temperature. Have John Deere dealer repair as soon as possible.
ECU 000647.05	Fan System	Upper Fan Drive Output 1 Shorted or Open. Inspect wiring leads on solenoid coil above fan drive piston housing. Have John Deere dealer repair as soon as possible.

ECU
000651.02
ECU
000651.13

Engine System

Electronic Fuel Injector Problem. Have John Deere dealer repair at earliest convenience.

OU1092A.0000020 -19-28SEP06-12/27

**Diagnostic
Trouble Code**

Display

Solution

ECU
000651.05

ECU
000651.06

ECU
000651.07

ECU
000652.02

ECU
000652.05

ECU
000652.06

ECU
000652.07

ECU
000652.13

ECU
000653.02

Engine System

Electronic Fuel Injector Problem. Have John Deere dealer repair as soon as possible.

ECU
000653.05

ECU
000653.06

ECU
000653.07

ECU
000653.13

ECU
000654.02

ECU
000654.05

ECU
000654.06

ECU
000654.07

ECU
000654.13

ECU

000655.02
ECU
000655.05
ECU
000655.06
ECU
000655.07
ECU
000655.13
ECU
000656.02
ECU
000656.05
ECU
000656.06
ECU
000656.07
ECU
000656.13

ECU
000676.03
ECU
000676.05

Engine System

Glow Plug Relay Output Problem. Have John Deere dealer repair as soon as possible.

ECU
001075.05

Fuel Supply System

Electric Lift Pump in Fuel Filter Base Short/Open. Have John Deere dealer repair at earliest convenience.

ECU
001110.31

Engine System

Engine Protection Shutdown. Have John Deere dealer repair as soon as possible.

ECU
001136.00

Engine System

ECU Temperature High. Check area around ECU for adequate air flow. If problem continues, have John Deere dealer repair immediately.

ECU
001136.16

Engine System

Internal ECU Temperature High. Check area around ECU for adequate air flow. If problem continues, have John Deere dealer repair as soon as possible.

ECU
001172.03
ECU
001172.04

Engine System

Compressor Inlet Temperature Input Voltage Problem. Have John Deere dealer repair at earliest convenience.

ECU
001180.00

Engine System

Exhaust Temperature is High. Have John Deere dealer repair immediately.

**ECU
001180.16**

Engine System

Exhaust Temperature is Higher than Specification.
Have John Deere dealer repair as soon as possible.

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**Diagnostic
Trouble Code**

Display

Solution

**ECU
001347.03
ECU
001347.05**

Engine System

Pump control valve problem. Have John Deere dealer repair as soon as possible.

**ECU
001347.07**

Fuel Filter

Fuel Rail Pressure Control Problem. Check fuel filter, If code returns, have John Deere dealer repair as soon as possible.

**ECU
001569.31**

Fuel Power Derated

One of the Derate Conditions Exists on Engine. Have John Deere dealer repair at earliest convenience.

**ECU
001639.01
ECU
001639.16
ECU
001639.18
ECU
002005.09**

Fan System

Fan Speed Signal Problem. Have John Deere dealer repair at earliest convenience.

**ECU
002005.14**

Communication System

Communication Error. Allow tractor to run for 10 minutes to clear code.

**ECU
002030.09**

Communication System

CAB Message Missing. Have John Deere dealer repair at earliest convenience.

**ECU
002049.09
ECU
002071.09**

Communication System

Control Unit Signal Missing. Have John Deere dealer repair at earliest convenience.

**ECU
002630.00**

Engine System

Charge Air Outlet Temperature Higher than Expected (Most Severe). Have John Deere dealer repair immediately.

ECU 002630.03 ECU 002630.04	Engine System	Charge Air Outlet Temperature Input Voltage Problem. Have John Deere dealer repair as soon as possible.
ECU 002630.15 ECU 002630.16	Engine System	Charge Air Outlet Temperature Higher than Expected (Less Severe). Have John Deere dealer repair as soon as possible.
ECU 002659.02 ECU 002659.15 ECU 002659.17	Engine System	EGR Problem. Have John Deere dealer repair as soon as possible.
ECU 002790.16	Engine System	Compressor Outlet Temperature High. Have John Deere dealer repair as soon as possible.
ECU 002791.02 ECU 002791.03 ECU 002791.04 ECU 002791.07 ECU 002791.13 ECU 002791.14 ECU 002791.31	Engine System	EGR Valve Error. Have John Deere dealer repair as soon as possible.
ECU 002795.07 ECU 002795.12	Engine System	Variable Geometry Turbo Control Error. Have John Deere dealer repair as soon as possible.
ECU 003509.03 ECU 003509.04	Engine System	Fuel Rail Pressure Sensor Supply Voltage Problem. Have John Deere dealer repair immediately.

Diagnostic Trouble Code	Display	Solution
ECU 003510.03		
ECU 003510.04		
ECU 003511.03		
ECU 003511.04	Engine System	ECU Sensor Voltage Problem. Have John Deere dealer repair as soon as possible.
ECU 003512.03		
ECU 003512.04		
ECU 003513.03		
ECU 003513.04		
ECU 600006.31	Engine System	ECU Default DTC. Have John Deere dealer repair at earliest convenience.
Hitch Control Unit Diagnostic Trouble Codes (HCU)		
HCU 000158.04	Electrical System	HCU Supply Voltage Low. Visually inspect around the batteries and alternator for any visual signs of damage or accumulated debris. Check fuse F30. If code still exists, have John Deere dealer repair at earliest convenience.
HCU 000168.04		
HCU 000630.13	Rear Hitch System	HCU Not Calibrated. Have John Deere dealer repair at earliest convenience.
HCU 001079.03	Rear Hitch System	HCU Sensor Supply Voltage Problem. Have John Deere dealer repair at earliest convenience.
HCU 001079.04		
HCU 001873.02	Rear Hitch System	Rear Hitch Position Sensor Problem. Have John Deere dealer repair at earliest convenience.
HCU 001873.03		
HCU 001873.04		
HCU 001873.11		
HCU 001873.11		

HCU 001873.13	Rear Hitch System	HCU Calibration Fault/Rear Hitch Position Sensor Circuit. Have John Deere dealer calibrate hitch at earliest convenience.
HCU 001881.03 HCU 001881.04 HCU 001881.13	Rear Hitch System	Rear Hitch Draft Sensor Problem. Have John Deere dealer repair at earliest convenience.
HCU 002003.09	Rear Hitch System	Vehicle Speed Update Fault. Have John Deere dealer repair at earliest convenience.
HCU 002005.09	Communication System	ACU Message Missing. Have John Deere dealer repair at earliest convenience.
HCU 002071.09	Rear Hitch System	CCU Message Missing. Have John Deere dealer repair at earliest convenience.
HCU 521001.02 HCU 521001.05 HCU 521001.06 HCU 521001.07 HCU 521001.11 HCU 521002.05 HCU 521002.07 HCU 521002.06	Rear Hitch System	Rear Hitch Circuit Problem. Have John Deere dealer repair at earliest convenience.
HCU 523652.02	Hydraulic System	Wire Connector Fault. Have John Deere dealer repair at earliest convenience.

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**Diagnostic
Trouble Code**

Display

Solution

HCU 523788.02	Rear Hitch System	Hydraulic Option Configuration Problem. Hook up last used implement and cycle key switch ON and OFF to reset.
HCU 523910.02	Rear Hitch System	Control Unit Problem. Have John Deere dealer repair at earliest convenience.
HCU 523952.31	Rear Hitch System	Operator Trying to use Hitch while Disabled or not Available. Have John Deere dealer repair at earliest convenience.
HCU 524016.04	Rear Hitch System	Switched Supply Voltage Problem. Visually inspect around the batteries and alternator for any visual signs of damage or accumulated debris. Restart vehicle. If code returns, have John Deere dealer repair at earliest convenience.
HCU 524212.19 HCU 524212.31	Hydraulic System	Rear Hitch Control Lever Problem. Have John Deere dealer repair at earliest convenience.

Instrument Control Unit Diagnostic Trouble Codes (ICU)

ICU 002000.09	Communication System	ECU Message Missing. Check fuse F9. Restart vehicle. If code returns, have John Deere dealer repair as soon as possible.
ICU 002003.09	Communication System	PTI or PTQ Message Missing. Check fuse F6 for IVT or F35 PowrQuad Plus. Restart vehicle. If code returns, have John Deere dealer repair as soon as possible.
ICU 002011.09	Communication System	BRC Message Missing. Have John Deere dealer repair at earliest convenience.
ICU 002005.09	Communication System	ACU Message Missing. Check fuse F13 for IVT or F35 for PowrQuad Plus. Restart vehicle. If code returns, have John Deere dealer repair as soon as possible.
ICU 002019.09	Communication System	SSU Message Missing. Have John Deere dealer repair at earliest convenience.
ICU 002020.09	Communication System	SFA Message Missing. Check fuse F24. Restart vehicle. If code returns, have John Deere dealer repair as soon as possible.

ICU 002025.09	Communication System	ATC Message Missing. Check fuse F42. Restart vehicle. If code returns, have John Deere dealer repair as soon as possible.
ICU 002030.09	Communication System	VLC Message Missing. Have John Deere dealer repair as soon as possible.
ICU 002034.09	Communication System	SCU Message Missing. Check fuse F24. Restart vehicle. If code returns, have John Deere dealer repair as soon as possible.
ICU 002035.09	Communication System	HCU Message Missing. Have John Deere dealer repair as soon as possible.
ICU 002036.09	Communication System	PTF Message Missing. Check fuse F15. Restart vehicle. If code returns, have John Deere dealer repair as soon as possible.
ICU 002049.09	Communication System	CAB Message Missing. Check fuse F35. Restart vehicle. If code returns, have John Deere dealer repair as soon as possible.
ICU 002050.09	Communication System	CLC Message Missing. Have John Deere dealer repair as soon as possible.

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Diagnostic Trouble Code	Display	Solution
ICU 002054.09	Communication System	ASU Message Missing. Check fuses F35 for IVT and F45 PowrQuad Plus. Restart vehicle. If code returns, have John Deere dealer repair as soon as possible.
ICU 002071.09	Communication System	CCU Message Missing. Check fuses F6 for IVT and F35 for PowrQuad Plus. Restart vehicle. If code returns, have John Deere dealer repair as soon as possible.
ICU 002129.09	Communication System	ICU Message Missing. Check fuse F28. Restart vehicle. If code returns, have John Deere dealer repair as soon as possible.

ICU 002213.09	Communication System	SCO Message Missing. Check fuse F24. Restart vehicle. If code returns, have John Deere dealer repair as soon as possible.
ICU 002227.09	Communication System	SUP Message Missing. Check fuse F23. Restart vehicle. If code returns, have John Deere dealer repair as soon as possible.
ICU 002240.09	Communication System	TEC Message Missing. Check fuse F23. Restart vehicle. If code returns, have John Deere dealer repair as soon as possible.
ICU 002255.09	Communication System	No CAN messages received from any source address within time-out period.
ICU 523971.14	Communication System	Engine is Currently too Cold to Start and is Firing the Glow Plugs in Preparation for Starting. Engine may be safely started at conclusion of countdown.

Front PTO Control Unit Diagnostic Trouble Codes (PTF)

PTF 000168.04	Front PTO System	PTF Supply Voltage Low. Have John Deere dealer repair at earliest convenience.
PTF 001882.00	Front PTO System	Front PTO Shaft is Turning too Fast. Restart vehicle. Engage Front PTO. Set engine to full throttle. If code returns, have John Deere dealer repair as soon as possible.
PTF 001882.01	Front PTO System	Front PTO Underspeed Detected. Restart vehicle and Engage Front PTO. Set engine to full throttle. If code returns, have John Deere dealer repair at earliest convenience.
PTF 001882.13	Front PTO System	Front PTO Not Calibrated. Have John Deere dealer repair at earliest convenience.
PTF 523904.31	Front PTO On	PTO Engaged While Operator Not Seated. Sit in operators seat. Restart vehicle and cycle front PTO switch. If code returns, have John Deere dealer repair as soon as possible.
PTF 523905.02	Front PTO System	Front PTO Circuit Problem. Have John Deere dealer repair at earliest convenience.
PTF 523906.03	Front PTO System	Front PTO Oil Temperature Circuit Problem. Have John Deere dealer repair at earliest convenience.

PTF
523906.04

PTF
524163.09

Front PTO System

Control Unit Problem. Check fuse F35. Restart vehicle. If code returns, have John Deere dealer repair at earliest convenience.

PTF
524216.02
PTF
524216.31

Front PTO System

Front PTO Switch Problem. Have John Deere dealer repair at earliest convenience.

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**Diagnostic
Trouble Code**

Display

Solution

IVT Transmission Control Unit Diagnostic Trouble Codes (PTI)

PTI
000126.15
PTI
000126.16

Transmission Oil Filter
Restricted

Check condition and service interval of transmission oil and filter. Restart vehicle. Warm oil to normal operating temperature. If code returns, have John Deere dealer repair as soon as possible.

PTI
000127.01

Transmission Oil
Pressure Low

Restart vehicle. Warm oil to normal operating temperature. If code returns, have John Deere dealer repair at earliest convenience.

PTI
000127.02
PTI
000127.04

Transmission System

Transmission Pump Pressure Sensor Problem. Have John Deere dealer repair at earliest convenience.

PTI
000127.18

Transmission Oil
Pressure Low

Transmission Pump Pressure Low. Have John Deere dealer repair as soon as possible.

PTI
000158.01
PTI
000168.01

Transmission System

Control Unit Supply Voltage Problem. Have John Deere dealer repair at earliest convenience.

PTI
000190.00

Engine Speed High

Engine Overspeed. Reduce engine RPM. If code returns, have John Deere dealer repair as soon as possible.

PTI 000190.02	Transmission System	Engine Speed Mismatch. Have John Deere dealer repair at earliest convenience.
PTI 000191.00	Transmission Speed High	Operating tractor downhill with a heavy rear load may cause the rear differential to overspeed the transmission output shaft. Slow vehicle. If code returns, have John Deere dealer repair as soon as possible.
PTI 000191.02	Transmission System	Transmission Speed Sensors and Calculated "Expected" Speed Differ by more than 200 rpm. Have John Deere dealer repair at earliest convenience.
PTI 000619.05	Park System	Park Brake Solenoid Circuit Problem. Have John Deere dealer repair at earliest convenience.
PTI 000734.05 PTI 000735.05 PTI 000736.05	Transmission System	Clutch/Brake Solenoid Circuit Problem. Have John Deere dealer repair at earliest convenience.
PTI 000754.18 PTI 000755.18 PTI 000756.18	Transmission Oil Pressure Low	Clutch Enable Pressure Problem. Have John Deere dealer repair as soon as possible.
PTI 001079.04	Transmission System	Control Unit Sensor Voltage Problem. Have John Deere dealer repair at earliest convenience.
PTI 002000.09	Communication System	ECU Message Missing. Have John Deere dealer repair at earliest convenience.
PTI 002005.09	Communication System	ACU Message Missing. Have John Deere dealer repair at earliest convenience.
PTI 524042.00	Transmission Oil Filter Restricted	Check the condition and service interval of the transmission oil and filter. If code returns, have John Deere dealer repair immediately.

Diagnostic Trouble Code	Display	Solution
PTI 524042.16	Transmission Oil Filter Restricted	Transmission Oil Filter Bypassed. Check the condition and service interval of the transmission oil and filter. If code returns, have John Deere dealer repair as soon as possible.
PTI 524227.00		
PTI 524227.16		
PTI 524226.08	Transmission System	Direction Sensing Incorrect. Have John Deere dealer repair as soon as possible.
PTI 524228.05	Transmission System	Park Sump Block Circuit Problem. Have John Deere dealer repair at earliest convenience.
PTI 524228.11		
PTI 524229.05	Transmission System	Hydro Control Solenoid Circuit Problem. Have John Deere dealer repair at earliest convenience.
PTI 524230.05	Park System	Clutch Enable Solenoid Circuit Problem. Have John Deere dealer repair at earliest convenience.
PTI 524232.01	Park System	Park Brake Pressure Low/Gear Commanded. Stop engine, have John Deere dealer repair immediately.
PTI 524232.02	Transmission System	Park Brake Pressure Sensor Problem. Have John Deere dealer repair at earliest convenience.
PTI 524232.04		
PTI 524232.14	Transmission Oil Pressure Low	Park Brake Pressure Low in Come Home Mode. Perform Park Brake Release Procedure (see section 80). Wait 5-10 minutes. If code returns, have John Deere dealer repair immediately.
PTI 524232.16	Park System	Park Brake Pressure Problem. Have John Deere dealer repair as soon as possible.
PTI 524232.17		
PTI 524232.18	Transmission Oil Pressure Low	Park Brake Pressure Low. Have John Deere dealer repair as soon as possible.

PTI 524233.00	Transmission System	Hydro Fixed Unit Overspeed. Have John Deere dealer repair as soon as possible.
PTI 524233.07 PTI 524233.15 PTI 524233.16	Transmission System	Hydro Speed Sensor Problem. Have John Deere dealer repair at earliest convenience.
PTI 524234.02 PTI 524234.04	Transmission System	Clutch Pressure Circuit Problem. Have John Deere dealer repair at earliest convenience.
PTI 524237.31	Transmission System	Neutral and Park or Scroll Switches on During Start-Up. Restart vehicle. If code returns, have John Deere dealer repair at earliest convenience.
PTI 524238.31	Transmission Lever Not in Park	Left-Hand Reverser Lever Not in Park or Neutral at Power Up. Place lever in park or neutral. Restart vehicle. If code returns, have John Deere dealer repair at earliest convenience.
PTI 524239.31	Transmission System	No Motion / Engine Running. Have John Deere dealer repair at earliest convenience.
PTI 524240.14	Transmission System	No Vehicle Motion for 5 Seconds After "Come-Home" Mode Selected. Have John Deere dealer repair at earliest convenience.

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Diagnostic Trouble Code	Display	Solution
PTI 524241.02	Transmission System	Carrier or Fixed Unit Speed Incorrect. Have John Deere dealer repair at earliest convenience.
PTI 524242.00	Transmission Oil Pressure High	Transmission Park and Enable Pressures High. Have John Deere dealer repair as soon as possible.
PTI 524243.31	Operator Controls	Control Unit Command Problem. Have John Deere dealer repair at earliest convenience.

PTI
524244.31
PTI
524245.31

PTI
524246.17 Transmission System Hydro Fixed Unit Speed Low at Start-Up. Have John Deere dealer repair at earliest convenience.

PTI
524247.17 Transmission System Carrier Speed Circuit Problem. Have John Deere dealer repair at earliest convenience.

PTI
524248.31 Transmission System Motion Detected with Park Brake Engaged. Restart vehicle. Park vehicle on a slight incline. Place left-hand reverser in PARK. Let vehicle sit for 1-2 minutes. If code returns, have John Deere dealer repair as soon as possible.

PTI
524249.31 Transmission Not in Park Operator Not Present with Transmission in Neutral. Sit in seat. If code returns, have John Deere dealer repair as soon as possible.

PTI
524250.31 Transmission System Park Brake Previously Failed/May Not Hold. Have John Deere dealer repair as soon as possible.

PTI
524253.02 Transmission System Control Unit Not Commanding Park at Start-Up. Place left-hand reverser in PARK. Restart vehicle. If code returns, have John Deere dealer repair at earliest convenience.

PTI
524254.03
PTI
524254.04 Transmission System Transmission Enable Relay Circuit Voltage Problem. Verify that there is NOT a fuse installed in F5 location. Have John Deere dealer repair at earliest convenience.

PowrQuad Plus Transmission Control Unit Diagnostic Trouble Codes (PTQ)

PTQ
000084.14 Transmission System PTQ Wheel Speed Message Missing. Have John Deere dealer repair as soon as possible.

PTQ
000126.16 Transmission Oil Filter Restricted Check condition and service interval of transmission oil filter. Restart vehicle. If code returns, have John Deere dealer repair as soon as possible.

PTQ
000127.01 Transmission Oil Pressure Low Check transmission fluid level in sight glass on rear differential case. Restart vehicle. If code returns, have John Deere dealer repair immediately.

PTQ 000158.04	Electrical System Voltage Low	Visually inspect around the batteries and alternator for damage or accumulated debris. Restart vehicle. If code returns, have John Deere dealer repair as soon as possible.
PTQ 000190.18	Transmission System	PTQ Engine Speed Low. Have John Deere dealer repair as soon as possible.
PTQ 000191.17	Transmission System	Transmission Underspeed. Have John Deere dealer repair at earliest convenience.

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Diagnostic Trouble Code	Display	Solution
PTQ 000734.05	Transmission System	Transmission Sensor Circuit Problem. Have John Deere dealer repair at earliest convenience.
PTQ 000735.05		
PTQ 000736.05		
PTQ 000737.05		
PTQ 002000.09	Communication System	ECU Message Missing. Check fuse F9. Restart vehicle. If code returns, have John Deere dealer repair as soon as possible.
PTQ 002005.09	Communication System	ACU Message Missing. Have John Deere dealer repair as soon as possible.
PTQ 002049.09	Communication System	CAB Message Missing. Have John Deere dealer repair as soon as possible.
PTQ 002050.09	Communication System	CLC Message Missing. Have John Deere dealer repair as soon as possible.
PTQ 002129.09	Communication System	ICU Message Missing. Have John Deere dealer repair as soon as possible.
PTQ 523953.02	Operator Controls	Speed Control Lever Circuit Problem. Have John Deere dealer repair at earliest convenience.

PTQ 523960.31	Operator Not in Seat	Operator Not Seated During Reverser Command. Have John Deere dealer repair at earliest convenience.
PTQ 523961.07	Operator Controls	Range Lever Park/Reverser Lever Gear Problem. Have John Deere dealer repair at earliest convenience.
PTQ 523966.31	Transmission Come Home Active	Check F5 slot for fuse. Fuse should not be installed unless vehicle is in Come Home mode. With fuse removed, operate vehicle for 5 minutes. If code returns, have John Deere dealer repair as soon as possible.
PTQ 524191.05	Trailer Brake System	Trailer Air Brake Valve Problem. Have John Deere dealer repair as soon as possible.
PTQ 524230.03		
PTQ 524230.04		
PTQ 524230.05	Transmission System	Clutch Enable Circuit Problem. Have John Deere dealer repair at earliest convenience.
PTQ 524234.03		
PTQ 524234.04		
PTQ 524254.04	Transmission System	Transmission Enable Relay Circuit Voltage Low. Have John Deere dealer repair at earliest convenience.
Optional SCV Control Unit Diagnostic Trouble Codes (SCO)		
SCO 000158.04	Hydraulic System	Control Unit Supply Voltage Problem. Visually inspect around the batteries and alternator for any visual signs of damage or accumulated debris. Check fuses F12, F24 and F51. Restart vehicle. If code returns, have John Deere dealer repair at earliest convenience.
SCO 000168.04		
SCO 001963.05	Hydraulic System	Flow Control Circuit Problem. Have John Deere dealer repair at earliest convenience.
SCO 001975.05		

**SCO
002005.09**

Communication System

ACU Message Missing. Have John Deere dealer repair at earliest convenience.

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**Diagnostic
Trouble Code**

Display

Solution

**SCO
002071.09**

Communication System

CCU Message Missing. Have John Deere dealer repair at earliest convenience.

**SCO
521000.02**

Hydraulic System

Front Hitch External Switch Circuit Problem. Inspect front hitch switch, harness and connectors. Restart vehicle. Cycle front hitch switch through all positions. If code returns, have John Deere dealer repair at earliest convenience.

**SCO
523652.02**

Hydraulic System

Wire Connector Fault. Incompatible connection. Have John Deere dealer repair at earliest convenience.

**SCO
523662.05**

**SCO
523662.06**

**SCO
523663.05**

**SCO
523663.06**

Hydraulic System

Auxiliary Valve Current Problem. Have John Deere dealer repair at earliest convenience.

**SCO
523695.02**

**SCO
523695.19**

**SCO
523696.02**

**SCO
523696.19**

Hydraulic System

External Control Message Problem. Have John Deere dealer repair at earliest convenience.

**SCO
523787.03**

**SCO
523787.04**

Hydraulic System

Auxiliary Solenoid Voltage Problem. Visually inspect around the batteries and alternator for any visual signs of damage or accumulated debris. Restart vehicle. If code returns, have John Deere dealer repair at earliest convenience.

SCO 523910.02	Hydraulic System	Control Unit Problem. Have John Deere dealer repair at earliest convenience.
SCO 523930.05 SCO 523930.06 SCO 523931.05 SCO 523931.06	Hydraulic System	SCV Directional Valve Solenoid Current Problem. Have John Deere dealer repair at earliest convenience.
SCO 523936.05 SCO 523936.06 SCO 523937.05 SCO 523937.06	Hydraulic System	Flow Control Valve Solenoid Current Problem. Have John Deere dealer repair at earliest convenience.
SCO 523942.31	SCV VI On	Operator out of seat with SCV VI on.
SCO 523943.31	SCV V On	Operator out of seat with SCV V on.
SCO 524016.03 SCO 524016.04	Hydraulic System	Control Unit Supply Voltage Problem. Visually inspect around the batteries and alternator for any visual signs of damage or accumulated debris. Restart vehicle. If code returns, have John Deere dealer repair at earliest convenience.

SCV Control Unit Diagnostic Trouble Codes (SCU)

SCU 000158.04 SCU 000168.04	Hydraulic System	Switched Supply Voltage Problem. Visually inspect around the batteries and alternator for any visual signs of damage or accumulated debris. Check fuses F24, F44 and F51. Restart vehicle. If code returns, have John Deere dealer repair at earliest convenience.
SCU 001079.03 SCU 001079.04	Hydraulic System	Control Unit Sensor Supply Voltage Problem. Have John Deere dealer repair at earliest convenience.

Diagnostic Trouble Code	Display	Solution
SCU 001915.05 SCU 001927.05 SCU 001939.05 SCU 001951.05	Hydraulic System	Flow Control Solenoid Current Problem. Have John Deere dealer repair at earliest convenience.
SCU 002005.09	Communication System	ACU Message Missing. Check fuse F13. Restart vehicle. If code returns, have John Deere dealer repair at earliest convenience.
SCU 002049.09	Communication System	CAB Message Missing. Have John Deere dealer repair at earliest convenience.
SCU 002071.09	Communication System	CCU Message Missing. Have John Deere dealer repair at earliest convenience.
SCU 523652.02	Hydraulic System	Wire Connector Fault. Have John Deere dealer repair at earliest convenience.
SCU 523693.02 SCU 523693.19 SCU 523694.02 SCU 523694.19	Hydraulic System	SCV External Control Message Problem. Have John Deere dealer repair at earliest convenience.
SCU 523786.03 SCU 523786.04 SCU 523786.07	Hydraulic System	Remote Position Sensor Problem. Have John Deere dealer repair at earliest convenience.
SCU 523787.03 SCU 523787.04	Hydraulic System	Control Unit Switched Supply Voltage Problem. Visually inspect around the batteries and alternator for any visual signs of damage or accumulated debris.

Restart vehicle. If code returns, have John Deere dealer repair at earliest convenience.

**SCU
523910.02** Hydraulic System Control Unit Problem. Have John Deere dealer repair at earliest convenience.

**SCU
523923.31** Hydraulic System Control Lever Problem. Have John Deere dealer repair at earliest convenience.

**SCU
523932.05**

**SCU
523932.06**

**SCU
523933.05**

**SCU
523933.06** Hydraulic System Direction Control Solenoid Circuit Current Problem. Have John Deere dealer repair at earliest convenience.

**SCU
523934.05**

**SCU
523934.06**

**SCU
523935.05**

**SCU
523935.06**

**SCU
523938.05**

**SCU
523938.06**

**SCU
523939.05**

**SCU
523939.06** Hydraulic System Flow Control Solenoid Circuit Current Problem. Have John Deere dealer repair at earliest convenience.

**SCU
523940.05**

**SCU
523940.06**

**SCU
523941.05**

**SCU
523941.06**

Diagnostic Trouble Code	Display	Solution
SCU 523944.31	SCV IV On	Operator out of seat with SCV IV on.
SCU 523945.31	SCV III On	Operator out of seat with SCV III on.
SCU 523946.31	SCV II On	Operator out of seat with SCV II on.
SCU 523947.31	SCV I On	Operator out of seat with SCV I on.
SCU 524015.02 SCU 524015.19	Hydraulic System	External Command Message Missing. Have John Deere dealer repair at earliest convenience.
SCU 524016.03 SCU 524016.04	Hydraulic System	Switched Supply Voltage Problem. Visually inspect around the batteries and alternator for any visual signs of damage or accumulated debris. Restart vehicle. If code returns, have John Deere dealer repair at earliest convenience.
SCU 524038.02 SCU 524038.19	Hydraulic System	External Control Message Missing. Restart vehicle. Cycle SCV IV Lever through all positions. If code returns, have John Deere dealer repair at earliest convenience.
SCU 524103.31 SCU 524104.31 SCU 524105.31	Hydraulic System	Control Lever Message Missing. Have John Deere dealer repair at earliest convenience.

Triple-Link Suspension Control Unit Diagnostic Trouble Codes (SFA)

SFA 000158.04 SFA 000168.04	Front Suspension System	Switched Supply Voltage Problem. Visually inspect around the batteries and alternator for any visual signs of damage or accumulated debris. Restart vehicle. If code returns, have John Deere dealer repair at earliest convenience.
SFA 001079.03	Front Suspension System	Sensor Supply Voltage Problem. Have John Deere dealer repair at earliest convenience.

**SFA
001079.04**

**SFA
001079.05
SFA
001079.06**

Front Suspension System

SFA Calibration Problem. Have John Deere dealer repair at earliest convenience.

**SFA
002003.09**

Communication System

PTI or PTQ Message Missing. Check fuse F6 for IVT or F35 for PowrQuad Plus. Restart vehicle. If code returns, have John Deere dealer repair at earliest convenience.

**SFA
002005.09**

Communication System

ACU Message Missing. Check fuse F13 for IVT or F35 PowrQuad Plus. Restart vehicle. If code returns, have John Deere dealer repair at earliest convenience.

**SFA
002049.09**

Communication System

CAB Message Missing. Check fuse F35. Restart vehicle. If code returns, have John Deere dealer repair at earliest convenience.

**SFA
523652.02**

Hydraulic System

Control Unit Connected to Wrong Harness. Have John Deere dealer repair at earliest convenience.

**SFA
523902.07
SFA
523903.07**

Front Suspension System

Suspended Front Axle Not Responding to Commands. Inspect front axle position sensor for linkage damage. Restart vehicle. Operate vehicle on rough terrain for 5 minutes. If code returns, have John Deere dealer repair at earliest convenience.

**SFA
523910.02**

Front Suspension System

Control Unit Problem. Have John Deere dealer repair at earliest convenience.

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**Diagnostic
Trouble Code**

Display

Solution

**SFA
523948.05
SFA
523948.06
SFA
523949.05**

Front Suspension System

Front Axle Current Problem. Have John Deere dealer repair at earliest convenience.

SFA
523949.06

SFA
523950.02

SFA
523950.03

SFA
523950.04

Front Suspension System Axle Position Sensor Problem. Inspect front axle position sensor for damage. Have John Deere dealer repair at earliest convenience.

SFA
524016.04

Front Suspension System Switched Supply Voltage Problem. Visually inspect around the batteries and alternator for any visual signs of damage or accumulated debris. Restart vehicle. If code returns, have John Deere dealer repair at earliest convenience.

AutoTrac Steering System Control Unit Diagnostic Trouble Codes (SSU)

SSU
000084.09

Communication System Wheel Speed Message Missing. Have John Deere dealer repair as soon as possible.

SSU
000168.03

Steering System Unswitched Supply Voltage Problem. Visually inspect around the batteries and alternator for any visual signs of damage or accumulated debris. If code returns, have John Deere dealer repair as soon as possible.

SSU
000177.09

Communication System Hydraulic Oil Temperature Message Missing. Restart vehicle. If code returns, have John Deere dealer repair as soon as possible.

SSU
000524.09

Identification System Gear Message Missing. Check fuse F6 for IVT or F35 for PowrQuad Plus. Restart vehicle. If code returns, have John Deere dealer repair as soon as possible.

SSU
000517.09

Communication System GPS Speed Message Missing. Check StarFire connector. If code returns, have John Deere dealer repair as soon as possible.

SSU
000524.02

Communication System Selected Gear Message Invalid. Restart vehicle. If code returns, have John Deere dealer repair at earliest convenience.

SSU
000630.13

Steering System Steering Control Unit Not Calibrated. Restart vehicle. Have John Deere dealer repair as soon as possible.

SSU 001079.03 SSU 001079.04	Steering System	Sensor Supply Voltage Problem. Have John Deere dealer repair as soon as possible.
SSU 001504.09	Communication System	Operator Presence Message Missing. Sit in seat. Restart vehicle. If code returns, have John Deere dealer repair as soon as possible.
SSU 001504.14	AutoTrac System	Operator Not Seated while AutoTrac in on. Sit in operator's seat and restart vehicle. If code returns, have John Deere dealer repair as soon as possible.

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Diagnostic Trouble Code	Display	Solution
SSU 001807.02 SSU 001807.03 SSU 001807.04 SSU 001807.05 SSU 001807.06 SSU 001807.10 SSU 001807.14	Steering System	Steering Wheel Position Sensor Problem. Have John Deere dealer repair as soon as possible.
SSU 001865.09	Communication System	ELX Message Missing. Have John Deere dealer repair at earliest convenience.
SSU 522273.00 SSU 522273.01	Steering System	Steering Valve Control Circuit Problem. Have John Deere dealer repair as soon as possible.
SSU 522387.07	Steering System	Wheel Angle Sensor Problem. Have John Deere dealer repair as soon as possible.

SSU 522394.09	Communication System	Terrain Compensation Module Message Missing. Check fuse F23. Restart vehicle. If code returns, have John Deere dealer repair as soon as possible.
SSU 522451.00 SSU 522451.01 SSU 522451.14	Steering System	Steering Angle Sensor Problem. Have John Deere dealer repair at earliest convenience.
SSU 523698.09	Communication System	Ag Management Solutions (AMS) Display Message Missing. Have John Deere dealer repair as soon as possible.
SSU 523766.02	AutoTrac System	AutoTrac Activation Code Invalid. Have John Deere dealer repair as soon as possible.
SSU 523767.02	AutoTrac System	AutoTrac Resume Switch Circuit Problem. Have John Deere dealer repair as soon as possible.
SSU 523795.02	AutoTrac System	AutoTrac Steering Valve Workport Connections Backwards. Have John Deere dealer repair as soon as possible.
SSU 523795.12	Steering System	Steering Valve or Harness Faulty. Have John Deere dealer repair as soon as possible.
SSU 523795.13	Steering System	Control Unit Calibration Problem. Have John Deere dealer repair as soon as possible.
SSU 523810.00		
SSU 523810.01 SSU 523821.02	Steering System	Steering Valve Supply Voltage Problem. Have John Deere dealer repair as soon as possible.
SSU 523824.03 SSU 523824.04 SSU 523824.05 SSU 523824.06 SSU	Steering System	Steering Wheel Position Sensor Voltage Problem. Have John Deere dealer repair as soon as possible.

Diagnostic Trouble Code	Display	Solution
SSU 523826.00		
SSU 523826.01		
SSU 523826.02		
SSU 523826.07	Steering System	Main Primary Steering Sensor Problem. Have John Deere dealer repair at earliest convenience.
SSU 523826.10		
SSU 523826.13		
SSU 523826.14		
SSU 524221.09	Communication System	No Communication Data. Have John Deere dealer repair at earliest convenience.
Tractor Equipment Control Unit Diagnostic Trouble Codes (TEC)		
TEC 522550.14	Incompatible Device	At Least One Non Compliant Device Connected to Connector. Have John Deere dealer repair as soon as possible.
Vehicle Load Center Control Unit Diagnostic Trouble Codes (VLC)		
VLC 001542.04	Electrical System	Wake Up Signal Voltage Low. Likely an open circuit. Have John Deere dealer repair at earliest convenience.
VLC 002030.06	Electrical System	VLC Circuit Current High. Remove all operator customized accessories such as flood lights, hazard lights and window wipers. Total output excessive. Have John Deere dealer repair at earliest convenience.

VLC 002050.09	Communication System	CLC Message Missing. Have John Deere dealer repair at earliest convenience.
VLC 002348.06	Lighting System	High Beam Light Circuit Current Problem. Have John Deere dealer repair at earliest convenience.
VLC 002350.06	Lighting System	Low Beam Light Circuit Current Problem. Have John Deere dealer repair at earliest convenience.
VLC 002354.06	Lighting System	Front Outer Flood Light Circuit Current Problem. Have John Deere dealer repair at earliest convenience.
VLC 002356.06	Lighting System	Front Inner Flood Light Circuit Current Problem. Have John Deere dealer repair at earliest convenience.
VLC 002388.06	Lighting System	Center Spot Light Circuit Current Problem. Have John Deere dealer repair at earliest convenience.
VLC 522310.06	Electrical System	ELX Output Circuit Current High. Have John Deere dealer repair at earliest convenience.
VLC 522311.06	Washer System	Rear Washer Pump Circuit Current Problem. Have John Deere dealer repair as soon as possible.
VLC 522312.06	Washer System	Front Washer Pump Circuit Current Problem. Have John Deere dealer repair at earliest convenience.
VLC 522620.06	Electrical System	Horn Circuit Current Problem. Have John Deere dealer repair at earliest convenience.