

Diagnostic Trouble Code Priorities

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Diagnostic Trouble Code Priorities

Each Diagnostic Trouble Code (DTC) has a priority. The priority of the DTC is indicated in the way the DTC is displayed to the operator:

- Priority 1 - The Cornerpost Display will stop normal function and the DTC will be displayed. This indicates a problem that requires the combine be stopped, the engine turned off immediately and the problem corrected. The Cornerpost Display will show the DTC until the problem is resolved.
- Priority 2 - The Cornerpost Display Diagnostic Indicator comes on. This indicates a problem that should be checked immediately.
- Priority 3 - DTC's will be stored, but it is not indicated to the operator.

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NOTE: Some codes may be activated that are not addressed in this book. These codes are of low severity. Contact your John Deere dealer at your convenience.

A00 - Engine Control Unit Diagnostic Trouble Codes

Control Unit	SPN	FMI	Pri.	Description
A00	94	3	1	Fuel Pressure Sensor (cc# 722) voltage out of range high - greater than 4.75 VDC
A00	94	4	1	Fuel Pressure Sensor (cc# 135) voltage out of range low.
A00	94	10	2	Sudden decrease in rail pressure detected.
A00	94	13	1	Fuel Pressure Sensor reading is higher than expected.
A00	94	17	2	During starting, rail pressure is not developed after a short time cranking.
A00	97	3	2	Water in Fuel Sensor (cc# 136) voltage out of range high.

A00	97	4	2	Water in Fuel Sensor (cc# 136) voltage out of range low.
A00	97	31	2	Water is detected in fuel. Drain water separator bowl.
A00	100	1	1	Oil Pressure Sensor is open after engine RPM is above cranking speed.
A00	100	4	2	Oil Pressure Sensor is closed when engine is not running.
A00	105	3	2	Engine Manifold Air Temperature Sensor voltage is out of range high. The device or wiring is faulty.
A00	105	4	2	Engine Manifold Air Temperature Sensor voltage is out of range low. The device or wiring is faulty.
A00	105	16	2	Engine manifold air temperature above 88°C / 190°F (moderately severe level). Maximum power level is derated. Power boost is disabled.
A00	107		2	Air Filter Restricted Switch indicates a plugged air filter.
A00	110		1	Engine coolant temperature above 115°C / 240°F (most severe level). Maximum power level is derated. Power boost is disabled.
A00	110	3	2	Engine Coolant Temperature Sensor voltage is out of range high. The device or wiring is faulty.
A00	110	4	2	Engine Coolant Temperature Sensor voltage is out of range low. The device or wiring is faulty.
A00	110	16	2	Engine coolant temperature above 110°C / 230°F. Maximum power level is derated. Power boost is disabled.
A00	111	1	1	Coolant level low. Engine coolant temperature above 125°C / 257°F. Maximum power level is derated. Power boost is disabled.
A00	158	17	2	Controller not powered down properly.
A00	174	3	2	Engine Fuel Temperature Sensor voltage is out of range high. The device or wiring is faulty.
A00	174	4	2	Engine Fuel Temperature Sensor voltage is out of range low. The device or wiring is faulty.
A00	174	16	2	Engine fuel temperature above normal range (greater than 65°C /149°F).
A00	611	3	1	The injector driver has detected a short to battery in the injector wiring.
A00	611	4	1	The injector driver has detected a short to ground in the injector wiring.
A00	620	3	2	Engine Control Unit internal 5 Volts DC Supply out of range or incorrect high.

A00	620	4	2	Engine Control Unit internal 5 Volts DC Supply out of range or incorrect low.
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A00	627	1	2	All injector currents are out of specification. The injector pull-in current is too low or the injector hold-in current is incorrect.
A00	636	2	2	Electrical noise detected on Pump Position Sensor + (cc# 172) and/or Pump Position Sensor - (cc# 173).
A00	636	8	2	Pump Position Sensor signal is missing.
A00	636	10	2	Pump Position Sensor signal has incorrect pulse pattern.
A00	637	2	2	Electrical noise detected on Engine Speed Sensor + (cc# 174) and/or Engine Speed Sensor - (cc# 175).
A00	637	7	2	Position relationship between Engine Speed Sensor and Pump Position Sensor not correct.
A00	637	8	2	Engine Speed Sensor signal is missing.
A00	637	10	2	Engine Speed Sensor signal has incorrect pulse pattern.
A00	651	5	2	The current to Injector #1 is less than expected.
A00	651	6	2	The current to Injector #1 increases too rapidly.
A00	651	7	2	The fuel flow to cylinder #1 is lower than expected.
A00	652	5	2	The current to Injector #2 is less than expected.
A00	652	6	2	The current to Injector #2 increases too rapidly.
A00	652	7	2	The fuel flow to cylinder #2 is lower than expected.
A00	653	5	2	The current to Injector #3 is less than expected.
A00	653	6	2	The current to Injector #3 increases too rapidly.
A00	653	7	2	The fuel flow to cylinder #3 is lower than expected.
A00	654	5	2	The current to Injector #4 is less than expected.

A00	654	6	2	The current to Injector #4 increases too rapidly.
A00	654	7	2	The fuel flow to cylinder #4 is lower than expected.
A00	655	5	2	The current to Injector #5 is less than expected.
A00	655	6	2	The current to Injector #5 increases too rapidly.
A00	655	7	2	The fuel flow to cylinder #5 is lower than expected.
A00	656	5	2	The current to Injector #6 is less than expected.
A00	656	6	2	The current to Injector #6 increases too rapidly.
A00	656	7	2	The fuel flow to cylinder #6 is lower than expected.
A00	1080	3	1	Rail Pressure Sensor Power (cc# 721) voltage too high.
A00	1080	4	1	Rail Pressure Sensor Power (cc# 721) voltage too low.
A00	1347	5	2	Driver detects problem in circuit to Pump Solenoid High (cc# 176).
A00	1347	7	2	Rail Pressure Control is unable to match required rail pressure. It may be too high or too low.
A00	1347	10	2	Pump Solenoid 1 is not delivering expected fuel flow.
A00	1348	5	2	Driver detects problem in circuit to Pump Solenoid Low 2 (cc# 179).
A00	1348	10	2	Pump Solenoid 2 is not delivering expected fuel flow.
A00	1569	31	2	Engine protection - power derated due to other faults. This code occurs in conjunction with 105.16, 110.00, 110.03, 110.04, and 110.16.
A00	2000	13	1	Engine Control Unit security violation.

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C00 - Armrest Control Unit Diagnostic Trouble Codes

C00	627	3	1	Delayed Power (cc# 006) voltage is above 16 VDC. High voltage situation must be resolved.
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C00	628	12	1	Controller cannot exit boot block program. Disconnect Armrest Control Unit connectors X653 and X654. Reconnect connectors. Replace Armrest Control Unit if condition persists.
C00	630	11	1	Controller failed EEPROM test at power-up. Replace Armrest Control Unit if condition persists.
C00	1490	8	2	Backshaft speed unknown. Damage could occur to feeder house if direction is changed while feeder house is turning.
C00	1499	12	2	The separator engage fault detection circuit indicates a failure. This is an important disengagement override system. Replace the Armrest Control Unit if condition persists.
C00	1504	11	1	The Seat Switch has been closed continuously for 6 hours. The switch or the wiring harness is shorted. The header will not disengage when the operator has left the seat. This must be corrected.

C03 - Cornerpost Control Unit Diagnostic Trouble Codes

Control Unit	SPN	FMI	Pri.	Description
C03	628	12	1	Controller cannot exit boot block program. Disconnect Cornerpost Control Unit connector X500. Reconnect connector. Replace Cornerpost Control Unit if condition persists.
C03	630	11	1	EEPROM failed test at power up. Replace Cornerpost Control Unit if condition persists.

E00 - Tailings Master Sensor Diagnostic Trouble Codes

Control Unit	SPN	FMI	Pri.	Description
E00	628	12	2	Controller cannot exit boot block program. Turn Key Switch to the OFF position. Wait 30 seconds. Replace Master Tailings Sensor if condition persists.

E00	630	11	2	EEPROM failed test at power up. Replace the Master Tailings Sensor if condition persists.
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E01 - Header Control Unit Diagnostic Trouble Codes

Control Unit	SPN	FMI	Pri.	Description
E01	627	3	1	Controller supply voltage out of range high - greater than 16 VDC.
E01	628	12	1	Controller cannot exit boot block program. Disconnect Header Control Unit connector X205. Reconnect connector. Replace Header Control Unit if condition persists
E01	1079	3	2	Height Sensor Power (cc# 481) voltage is too high - greater than 5.25VDC. Height Sensor Power is used to power the Return To Cut Sensor, Reel Fore/Aft Position Sensor, Deck Plate Position Sensor, Right Header Height Sensor, Center Header Height Sensor and Left Header Height Sensor. The voltage regulator of the Header Control Unit is bad or there is a short in the wiring.
E01	1079	4	2	Height Sensor Power (cc# 481) voltage is too low - less than 4.75VDC. Height Sensor Power is used to power the Return To Cut Sensor, Reel Fore/Aft Position Sensor, Deck Plate Position Sensor, Right Header Height Sensor, Center Header Height Sensor and Left Header Height Sensor. The voltage regulator of the Header Control Unit is bad or there is a short in the wiring.
E01	1080	3	2	Height Sensor Power 2 (cc# 471) voltage is too high - greater than 5.25VDC. Height Sensor Power 2 is used to power the CONTOUR MASTER Angle Sensor and the Header Raise Pressure Sensor. The voltage regulator of the Header Control Unit is bad or there is a short in the wiring.
E01	1080	4	2	Height Sensor Power 2 (cc# 471) voltage is too low - less than 4.75VDC. Height Sensor Power 2 is used to power the CONTOUR MASTER Angle Sensor and the Header Raise Pressure Sensor. The voltage regulator of the Header Control Unit is bad or there is a short in the wiring.

E01	1515	13	2	Active Header Height Control system or CONTOUR MASTER system not calibrated for currently attached header. Perform the calibration procedure.
E01	1516	13	2	Header Float system not calibrated for currently attached header. Perform the calibration procedure.
E01	1517	4	2	Header Raise Pressure (cc# 706) voltage is too low - less than 0.25VDC.
E01	1519	11	2	Header raise valve driver detects an open, short, over voltage, or over temperature condition. The Header Control Unit will not actuate the Header Raise Valve until the fault condition is removed.
E01	1520	11	2	Header lower valve driver detects an open, short, over voltage, or over temperature condition. The Header Control Unit will not actuate the Header Lower Valve until the fault condition is removed.
E01	1521	11	2	Tilt left valve driver detects an open, short, over voltage, or over temperature condition. The Header Control Unit will not actuate the CONTOUR MASTER Tilt Left Valve until the fault condition is removed.
E01	1522	11	2	Tilt right valve driver detects an open, short, over voltage, or over temperature condition. The Header Control Unit will not actuate the CONTOUR MASTER Tilt Right Valve until the fault condition is removed.
E01	1523	11	2	HYDRAFLEX diverter valve driver detects an open, short, over voltage, or over temperature condition. The Header Control Unit will not actuate the HYDRAFLEX Diverter Valve until the fault condition is removed.
E01	1531	6	2	Reel speed increase driver detects an open, short, over voltage, over temperature condition. The Header Control Unit will not actuate the Reel Speed Actuator in the increase speed mode until the fault condition is removed

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E01	1532	6	2	Reel speed decrease driver detects an open, short, over voltage, over temperature condition. The Header Control Unit will not actuate the Reel Speed Actuator in the decrease speed mode until the fault condition is removed
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E01	1533	3	2	Height Resume Sensor (cc# 828) voltage is too high - greater than 4.5VDC. Faulty device or wiring.
E01	1533	4	2	Height Resume Sensor (cc# 828) voltage is too low - less than 0.5 VDC. Faulty device or wiring.
E01	1534	3	2	Left Header Height Sensor (cc# 412) voltage is too high - greater than 4.5 VDC. Faulty device or wiring.
E01	1534	4	2	Left Header Height Sensor (cc# 412) voltage is too low less than 0.5VDC. Faulty device or wiring.
E01	1535	3	2	Right Header Height Sensor (cc# 454) voltage is too high - greater than 4.5 VDC). Faulty device or wiring.
E01	1535	4	2	Right Header Height Sensor (cc# 454) voltage is too low - less than 0.5 VDC). Faulty device or wiring.
E01	1536	3	2	Center Header Height Sensor (cc# 414) voltage is too high - greater than 4.5 VDC or shorted pads of the DIAL-A-MATIC Sensor. Faulty device or wiring.
E01	1536	4	2	Center Header Height Sensor (cc# 414) voltage is too low - less than 0.5 VDC or no signal from DIAL-A-MATIC Sensor. Faulty device or wiring.
E01	1541	2	2	Reel speed unknown.
E01	298618	7	2	Reel raise/lower or fore/aft resume system has malfunctioned.
E01	298621	7	2	HYDRAFLEX system has malfunctioned.

E02 - Right Control Unit Diagnostic Trouble Codes

Control Unit	SPN	FMI	Pri.	Description
E02	627	3	1	Electronic Power (cc# 021) voltage is too high - greater than 16VDC.
E02	628	12	1	Controller cannot exit boot block program. Turn Key Switch to the OFF position. Wait for 30 seconds. Replace Right Control Unit if condition persists.
E02	630	11	2	EEPROM failed test on power up. Replace the Right Control Unit if condition persists.

E02	639	19	2	CAN Bus messages are not being transmitted or received correctly. Possible effects are none, slow response, or machine down.
E02	1508	3	2	Hydraulic Oil Temperature Sensor (cc# 775) voltage is too high - greater than 4.97 VDC. The device or wiring is faulty.
E02	1508	4	2	Hydraulic Oil Temperature Sensor (cc# 775) voltage is too low - less than 0.29 VDC. The device or wiring is faulty.
E02	1509	3	2	Main Gear Case Oil Temperature Sensor (cc# 774) voltage is too high - greater than 4.97 VDC. The device or wiring is faulty.
E02	1509	4	2	Main Gear Case Oil Temperature Sensor (cc# 774) voltage is too low - less than 0.29 VDC. The device or wiring is faulty.

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E03 - Left Control Unit Diagnostic Trouble Codes

Control Unit	SPN	FMI	Pri.	Description
E03	627	3	1	Electronic Power (cc# 021) voltage is too high - greater than 15.5 VDC.
E03	628	12	1	Controller cannot exit boot block program. Disconnect Left Control Unit connector X213. Reconnect connector. Replace Left Control Unit if condition persists.
E03	876	11	2	CLIMATRAK compressor driver detects an open, short, over voltage, or over temperature condition.
E03	200132	11	1	Left brake light driver detects an open, short, over voltage, or over temperature condition. Only active in the ROAD mode.
E03	200133	11	1	Right brake light driver detects an open, short, over voltage, or over temperature condition. Only active in the ROAD mode.
E03	200134	11	1	Left marker light driver detects an open, short, over voltage, or over temperature condition. Only active in the ROAD mode.
E03	200135	11	1	Right marker light driver detects an open, short, over voltage, or over temperature condition. Only active in the ROAD mode.

E03	200137	11	2	Feeder house reverser driver detects an open, short, over voltage, or over temperature condition.
E03	200140	3	2	12VDC detected on Power Ground (cc# 010) of Control Relay Board. Indicates problem with ground connections.
E03	200141	4	2	12VDC not detected on Unswitched Electronic Power (cc# 022) of Control Relay Board. Indicates problem with Unswitched Electronic Power connection, wiring or Fuse F20 of the Engine Compartment Relay Panel.
E03	200142	4	2	12VDC not detected on Light Power (cc# 014) of Control Relay Board. Indicates problem with Light Power connection, wiring or Fuse F18 of the Engine Compartment Relay Panel.
E03	200143	4	2	12VDC not detected on Control Power (cc# 016) of Control Relay Board. Indicates problem with Control Power connection, wiring, Fuse F8 or Relay K4 of the Engine Compartment Relay Panel.
E03	200144	4	2	12VDC not detected on Light Power 2 (cc# 046) of Control Relay Board. Indicates problem with Light Power 2 connection, wiring or Fuse F5 of the Engine Compartment Relay Panel.
E03	200145	4	2	12VDC not detected on Light Power 3 (cc# 047) of Control Relay Board. Indicates problem with Light Power 3 connection, wiring or Fuse F3 of the Engine Compartment Relay Panel.
E03	200147	4	2	12VDC not detected on Fan Speed Adjust Power (cc# 051) of Control Relay Board. Indicates problem with Fan Speed Adjust Power connection, wiring or Fuse F11 or Relay K5 of the Engine Compartment Relay Panel.
E03	200148	4	2	12VDC not detected on Light Power 5 (cc# 049) of Control Relay Board. Indicates problem with Light Power 5 connection, wiring or Fuse F9 of the Engine Compartment Relay Panel.
E03	200149	11	2	Indicates a problem in the serial communication link between the Left Control Unit and the Control Relay Board.

E04 - Left Control Unit 2 Diagnostic Trouble Codes

Control Unit	SPN	FMI	Pri.	Description
E04	627	3	1	Delayed Power (cc# 006) voltage is too high - greater than 15.5 VDC.
E04	628	12	2	Controller cannot exit boot block program. Disconnect Left Control Unit 2 connectors X314 and X315. Reconnect connectors. Replace Armrest Control Unit if condition persists.
E04	1503	9	2	CAN Bus message(s) missing from Armrest Control Unit.

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E13 - HARVESTSMART (If Equipped) Vehicle Control Module

Control Unit	SPN	FMI	Pri.	Description
E13	158		1	Feed Rate Power 12 VDC (cc# 41) Out of Range High. Voltage above 16 VDC.
E13	158	1	1	Feed Rate Power 12 VDC (cc# 41) Out of Range Low. Voltage below 9 VDC.
E13	2392	1	2	Backup Alarm Power 12 VDC (cc# 558) Out of Range Low.
E13	200403	3	1	Forward Solenoid Low side (cc# 216) Fault. Forward solenoid low side (cc# 216) voltage high when handle is against neutral switch.
E13	200403	4	1	Forward Solenoid Low side (cc# 216) Fault. Forward solenoid low side (cc# 216) voltage low when handle is against neutral switch.
E13	200403	12	1	Forward Solenoid Low side (cc# 216) Fault. Forward solenoid low side (cc# 216) voltage does not match with high side (cc#217) voltage. Voltage readings should match when handle is against neutral switch or off of neutral switch but still in neutral range.
E13	200404	1	1	Forward and Reverse Solenoid High Side (cc# 217). Voltage Out of Range Low.

E13	200404	3	1	Forward and Reverse Solenoid High Side (cc# 217). Voltage High In Neutral.
E13	200404	4	1	Forward and Reverse Solenoid High Side (cc# 217). Voltage Low In Neutral.
E13	200405	3	1	Reverse Solenoid Low Side (cc# 218) Out of Range Low.
E13	200405	12	1	Forward Solenoid Low Side (cc# 216) Fault. Forward solenoid low side (cc# 216) voltage does not match with solenoid high side (cc#217) voltage. Voltage readings should match when handle is against neutral switch or off of neutral switch but still in neutral range.
E13	200406	9	2	CAN Bus Message missing from Control Unit E14.
E13	200407	2	1	Current Mismatch Fault. Clear codes. Replace Control Unit E13 if condition persists.
E13	200407	5	1	Unfiltered Current Fault. Clear Codes. Replace Control Unit E13 if condition persists.
E13	200407	6	1	Unfiltered Current High. Forward or reverse solenoid low side (cc#217) shorted to power, or Control Unit E13 is faulty. Check and diagnose any other Control Unit E13 diagnostic trouble codes first. Clear codes. Replace Control Unit E13 if there are no other Control Unit E13 diagnostic trouble codes and condition persists.
E13	200408	1	1	Handle Sensor Power 1 5VDC (cc# 211) Out of Range Low. Voltage less than 4.8 VDC.
E13	200408	4	1	Handle Sensor Power 1 5VDC (cc# 211) Shorted to Ground. Voltage less than 4.8 VDC.
E13	200409	5	1	Filtered Current Fault. Clear codes. Replace Control Unit E13 if condition persists.
E13	200409	6	1	Filtered Current High. Check and diagnose any other Control Unit E13 diagnostic trouble codes first. Clear codes. Replace Control Unit E13 if there are no other Control Unit E13 diagnostic trouble codes and condition persists.
E13	200410		2	Control Unit E13 Temperature High. Temperature is above 70°C (150°F).

Control Unit	SPN	FMI	Pri.	Description
E13	200420	11	2	Multifunction Control Handle Position Fault. Handle position 1 on Control Unit E13 does not match handle position 2 from Control Unit E14. Check and diagnose any other Control Unit E13 diagnostic trouble codes first.
E13	200420	14	2	Limp Home Mode Fault. Multifunction control handle position above 75% of full reverse in Limp Home Mode.
E13	200421		2	Handle Position Signal 1 (cc# 212) Out of Range High. Voltage is above 4.5 VDC.
E13	200421	1	2	Handle Position Signal 1 (cc# 212) Out of Range Low. Voltage is below 0.75 VDC.
E13	200421	3	2	Handle Position Signal 1 (cc# 212) Shorted to Power. Voltage is above 4.5 VDC.
E13	200421	4	2	Handle Position Signal 1 (cc# 212) Shorted to Ground. Voltage is below 0.75 VDC.
E13	200421	13	2	Multifunction Control Handle Position Sensor Calibration Required. Perform Multifunction Control Handle Position Sensor Calibration procedure.
E13	200421	15	2	Handle Position Signal 1 (cc# 212) Open. Multifunction Control Handle Position Sensor not connected, faulty harness, or failed sensor.
E13	200422	2	2	Multifunction Control Handle Position Error - Handle Position 2, Control Unit E14. Handle position 2 on Control Unit E14 does not match handle position 1 from Control Unit E13. Handle position signal 2 (cc# 222) within valid operating range but does not match calibration values. Check and diagnose any other Control Unit E13 diagnostic trouble codes first.
E13	200422	9	2	CAN Bus Message missing from Control Unit E14 - Multifunction Control Handle Position 2.

E13	200423	11	2	Operator's Seat Interlock Fault. Operator was out of seat for over 3 seconds while multifunction control handle not in neutral position.
E13	200424	11	2	Neutral Interlock Fault. Multifunction control handle was not in neutral when key switch was turned to RUN position. Armrest Control Unit neutral position does not match Control Unit E13 neutral position. Place multifunction control handle into neutral position and check for other Control Unit E13 diagnostic trouble codes.
E13	200424	13	2	Neutral Interlock Fault. Neutral switch became active while multifunction control handle position not in neutral range. Place multifunction control handle in neutral position.
E13	200425		2	Handle Position Signal 1 (cc# 212) Fault. Handle position signal 1 (cc# 212) out of range high while neutral switch active. Voltage above 2.9 VDC. Valid neutral range is 2.9-2.1 VDC. Multifunction control handle position sensor out of alignment, or neutral switch activated while moving.
E13	200425	1	2	Neutral Switch or Multifunction Control Handle Position Fault. Handle Position Signal 1 (cc# 212) out of Range low while neutral switch active. Voltage below 2.1 VDC. Valid neutral range is 2.9-2.1 VDC. Multifunction control handle position sensor out of alignment, or neutral switch activated while moving.
E13	200425	3	2	Neutral Switch (cc# 822) Shorted to Power Neutral switch (cc# 822) voltage to Control Unit E13 above 4.6 VDC regardless of multifunction control handle position. Faulty switch or harness.

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Control Unit	SPN	FMI	Pri.	Description
E13	200425	4	2	Neutral Switch (cc# 822) Shorted to Ground. Neutral switch (cc# 822) voltage to Control Unit E13 below 4.6 VDC regardless of multifunction control handle position. Faulty switch or harness.
E13	200425	13	2	Neutral Switch or Multifunction Control Handle Position Fault. Handle Position Signal 1 (cc# 212) in valid neutral range of 2.9-2.1

				VDC for more than one minute while neutral switch (cc# 822) has not been activated. Faulty neutral switch, open circuit (cc# 822), or multifunction control handle held in neutral range, but off of neutral switch. Faulty switch or harness.
E13	200426	15	2	Forward Pressure Sensor Signal (cc# 707) Fault. Pressure sensor disconnected, faulty, shorted to ground, or shorted to power.
E13	200428	1	2	Forward Pressure Sensor Power 5VDC (cc# 741) Out of Range Low. Voltage less than 4.8 VDC.
E13	200428	3	2	Forward Pressure Sensor Power 5VDC (cc# 741) Out of Range High or Shorted to Power. Voltage above 5.25 VDC.
E13	200428	4	2	Forward Pressure Sensor Power 5VDC (cc# 741) Shorted to Ground. Voltage less than 4.8 VDC.
E13	200430	14	2	Diagnostic Icon Check. Diagnostic trouble code flashes the diagnostic icon at startup to operator to indicate that it is working. This diagnostic trouble code automatically clears after 5 seconds.
E13	200433	2	2	Duty Cycle Calculation Fault. Clear codes. Replace Control Unit E13 if condition persists.
E13	298744	3	2	Neutral Switch (cc# 822) Shorted to Power on Armrest Control Unit C00. Voltage is above 4.6 VDC on Armrest Control Unit C00. Neutral Switch (cc# 822) status on Armrest Control Unit does not match Control Unit E13 neutral switch (cc# 822) status or the position of the Multifunction Control Handle.
E13	298744	4	2	Neutral Switch (cc# 822) Shorted to Ground on Armrest Control Unit C00. Voltage is below 4.6 VDC on Armrest Control Unit C00. Neutral Switch (cc# 822) status on Armrest Control Unit C00 does not match Control Unit E13 neutral switch (cc# 822) status or the position of the multifunction control handle.
E13	298744	9	2	CAN Bus Message missing from Armrest Control Unit C00 - Neutral switch (cc# 822) status.

E14 - HARVESTSMART (If Equipped) Feed Rate Controller

CONTROL UNIT	SPN	FMI	Priority	Description
E14	158		1	Feed Rate Power 12VDC (cc# 41) Out of Range High. Voltage above 16 VDC.
E14	158	1	1	Feed Rate Power 12VDC (cc# 41) Out of Range Low. Voltage below 9 VDC.
E14	190	9	1	CAN Bus message missing from Engine Control Unit - Engine Speed.
E14	200406	9	2	CAN Bus message missing from Control Unit E13. Note: Cornerpost Control Unit C03 will display "no E13" on fourth display.
E14	200408	1	1	Handle Sensor Power 2 5VDC (cc# 221) Out of Range Low. Voltage below 4.8 VDC.
E14	200408	4	1	Handle Sensor Power 2 5VDC (cc# 221) Shorted to Ground. Voltage below 4.8 VDC.
E14	200408	13	2	Multifunction Control Handle Position Fault. Multifunction control handle position sensor out of calibration due to faulty power supply or sensor. Check and diagnose any Control Unit E14 diagnostic trouble codes first. Recalibrate sensor if no other Control Unit E14 diagnostic trouble codes are present. Go to Section 240 Electrical System - Calibration Procedures and perform Multifunction Control Handle Position Sensor Calibration Procedure.
E14	200410		2	Control Unit E14 Temperature High. Temperature is above 70°C (150°F).
E14	200411		2	Rotor Drive Pressure Signal 2 (cc# 732) Out of Range High. Voltage above 3 VDC.
E14	200411	1	2	Rotor Drive Pressure Signal 2 (cc# 732) Out of Range Low. Voltage below 0.2 VDC.
E14	200411	3	2	Rotor Drive Pressure Signal 2 (cc# 732) Short to Power. Voltage above 4.8 VDC.
E14	200411	4	2	Rotor Drive Pressure Signal 2 (cc# 732) Short to Ground. Voltage below 0.2 VDC.

E14	200411	15	2	Rotor Drive Pressure Sensor 2 Not Connected. One or more circuits open (cc# 730, 731, or 732), or Rotor Drive Pressure Sensor 2 is faulty.
E14	200421		2	Handle Position Signal 2 (cc# 222) Out of Range High. Voltage is above 2.13 VDC.
E14	200421	1	2	Handle Position Signal 2 (cc# 222) Out of Range Low. Voltage is below 0.38 VDC.
E14	200421	2	2	Multifunction Control Handle Position Fault; Handle Position 2, Control Unit E14. Handle position 2 on Control Unit E14 does not match handle position 1 from Control Unit E13. Handle position signal 2 (cc# 222) within valid operating range but does not match calibration values. Check and diagnose any Control Unit E14 diagnostic trouble codes first.
E14	200421	3	2	Handle Position Signal 2 (cc# 222) Shorted to Power. Voltage is above 2.13 VDC.
E14	200421	4	2	Handle Position Signal 2 (cc# 222) Shorted to Ground. Voltage is below 0.38 VDC.

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CONTROL UNIT	SPN	FMI	Priority	Description
E14	200421	13	2	Multifunction Control Handle Position Sensor Calibration Required. Perform Multifunction Control Handle Position Sensor Calibration procedure.
E14	200421	15	2	Handle Position Signal 2 (cc# 222) Open. Multifunction control handle position sensor not connected, faulty harness, or faulty sensor.
E14	200428	1	2	Rotor Drive Pressure Sensor Power 2 5VDC (cc# 731) Out of Range Low Voltage below 4.8 VDC.
E14	200428	3	2	Rotor Drive Pressure Sensor Power 2 5VDC (cc# 731) Out of Range High or Shorted to Power. Voltage above 5.25 VDC.

E14	200428	4	2	Rotor Drive Pressure Sensor Sower 2 5VDC (cc# 731) Shorted to Ground. Voltage below 4.8 VDC.
E14	298682	9	2	CAN Bus message missing from Cornerpost Control Unit C03 - Ground Speed.
E14	298805	13	2	Controller Failed EEPROM Test. Clear code. Replace Control Unit E14 if condition persists.
E14	298982	9	2	CAN Bus message missing from Armrest Control Unit C00 - Unloading Status.
E14	298983	9	2	CAN Bus message missing from Armrest Control Unit C00 - Four Wheel Drive Low Status.
E14	298984	9	2	CAN Bus message missing from Armrest Control Unit C00 - Four Wheel Drive High Status.
E14	299103	9	2	CAN Bus message missing from Armrest Control Unit C00 - Separator Status.
E14	299165	9	2	CAN Bus message missing from Right Control Unit E02 - Grain Loss.
E14	299171	9	2	CAN Bus message missing from Left Control Unit E03 - Threshing Speed.

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GREENSTAR™ AutoTrac Assisted Steering System
(If Equipped) Steering System Unit-SSU
Diagnostic Trouble Codes

Control Unit	SPN	FMI	Pri.	Description
SSU	84	09	2	CAN Bus message containing ground speed not available.
SSU	168	03	2	Electronic Power (cc# 021) out of range high.
SSU	168	04	2	Electronic Power (cc# 021) out of range low.
SSU	177	09	2	CAN Bus message containing transmission oil temperature not available.

SSU	517	09	2	CAN Bus message containing GPS based ground speed not available
SSU	628	02	2	Control Unit SSU malfunction: EEPROM check sum invalid. Clear code. Replace Control Unit SSU if condition persists.
SSU	628	12	?	Control Unit SSU being reprogrammed (Bootblock generated). Reprogram Control Unit SSU. Replace Control Unit SSU if condition persists.
SSU	629	12	2	Control Unit SSU malfunction: watchdog timer reset. Clear code. Replace Control Unit SSU if condition persists.
SSU	630	13	2	AutoTrac system not calibrated.
SSU	1504	09	2	CAN Bus message containing seat switch status not available.
SSU	1504	14	2	Operator out of seat during AutoTrac operation.
SSU	1639	09	2	CAN Bus message containing hydraulic oil temperature not available.
SSU	1807	02	2	Steering Input Device indicates clockwise rotation when the Steering Flowmeter indicates counterclockwise rotation.
SSU	1807	08	2	Steering Input Device 1 Sig A (cc# 877) or Steering Input Device 1 Sig B (cc# 878) missing from controller inputs.
SSU	1807	10	2	Steering Input Device 1 signals do not match Steering Input Device 2 signals. Clear code. Replace Steering Input Device if condition persists.
SSU	522387	07	2	Steering Valve is commanded to turn combine, but Steering Flowmeter indicates no oil movement.
SSU	522394	09	2	CAN Bus message containing Terrain Compensation Module information not available
SSU	523651	02	2	Control Unit SSU malfunction: stack overflow. Clear code. Replace Control Unit SSU if condition persists.
SSU	523698	09	2	CAN Bus message containing GREENSTAR display AutoTrac navigation information not available
SSU	523766	02	2	Invalid AutoTrac Activation Code. Go to John Deere www.stellarsupport.com and provide serial number of Control Unit SSU and vehicle serial number to obtain valid activation code.
SSU	523767	09	2	CAN Bus message containing Resume Button 2 and Resume Button 3 status not available.
SSU	523792	03	1	Electronic Power (cc# 039) out of range high.

SSU	523792	04	1	Electronic Power (cc# 039) out of range low.
SSU	523795	12	2	Steering Valve Assembly or wiring faulty.
SSU	523795	13	2	Steering Valve calibration fault. Recalibrate with rear wheels off ground. Replace Steering Valve (A67) if condition persists.

Control Unit	SPN	FMI	Pri.	Description
SSU	523810	01	2	Steering Valve Power (cc# 961) out of range low.
SSU	523821	02	2	Machine Mismatch (8000/9000, or Tracks/wheels). There is a problem with harness jumper (cc# 908).
SSU	523822	02	2	Steering Flowmeter direction does not agree with Steering Input Device direction.
SSU	523822	07	2	Steering Flowmeter range too small during calibration - less than 400 counts at full left or full right turn. Recalibrate. Replace Steering Flowmeter if condition persists.
SSU	523822	08	2	Flowmeter Signal 1 (cc# 892) or Flowmeter Signal 2 (cc# 893) missing.
SSU	523822	10	2	Wheel motion detected by Steering Flowmeter with no Steering Input Device motion
SSU	523822	14	2	Flowmeter Signal 1 (cc# 892) and Flowmeter Signal 2 (cc# 893) indicate different steering rates.
SSU	523824	08	2	Steering Input Device 2 Sig A (cc# 888) or Steering Input Device 2 Sig B (cc# 889) missing.