

Diagnostic Trouble Codes
Warning Messages
Fault Codes

Amadas 9970 SP Combine

(Information taken from
John Deere 9570 STS
Diagnostic Manual)

Group 10D

Diagnostic Trouble Codes, Warning Messages and Fault Codes

Diagnostic Trouble Codes - ADU - Armrest Display Unit

Cont.	SPN	FMI	Priority	Description	Go to
ADU	158	03	Service Alert	Key switch run (cc# 013) voltage high	Section 240 - Electrical System - Alternator and Battery Diagnostics
ADU	158	04	Service Alert	Key switch run (cc# 013) voltage low	Section 240 - Electrical System - Alternator and Battery Diagnostics
ADU	168	03	Service Alert	Cab power 2 (cc# 092) voltage high on connector X689 (pin F)	Section 240 - Electrical System - Alternator and Battery Diagnostics
ADU	168	04	Service Alert	Cab power 2 (cc# 092) voltage low on connector X689 (pin F)	Section 240 - Electrical System - Alternator and Battery Diagnostics
ADU	442	00	Info	Armrest display unit temperature high	Section 240 - Electrical System - Armrest Display Unit Overall Diagnostics
ADU	442	01	Info	Armrest display unit temperature low	Section 240 - Electrical System - Armrest Display Unit Overall Diagnostics
ADU	444	03	Info	ADU power/CPM power 5 (cc# 062) voltage high on connector X689 (pin E)	Section 240 - Electrical System - Alternator and Battery Diagnostics
ADU	444	04	Info	ADU power/CPM power 5 (cc# 062) voltage low on connector X689 (pin E)	Section 240 - Electrical System - Armrest Display Unit Overall Diagnostics
ADU	1491	11	Service Alert	Armrest display unit lighting indicates an error.	Section 240 - Electrical System - Armrest Display Unit Overall Diagnostics
ADU	3587	02	Info	Armrest display unit internal 1.5 V power supply problem	Section 240 - Electrical System - Armrest Display Unit Overall Diagnostics
ADU	3598	02	Info	Armrest display unit internal 3.3 V power supply problem	Section 240 - Electrical System - Armrest Display Unit Overall Diagnostics
ADU	3599	02	Info	Armrest display unit internal 5.0 V power supply problem	Section 240 - Electrical System - Armrest Display Unit Overall Diagnostics
ADU	523436	14	Info	Armrest display unit has reset itself due to watchdog timer.	Section 240 - Electrical System - Armrest Display Unit Overall Diagnostics
ADU	523438	02	Info	Armrest display unit has a non-volatile memory failure.	Section 240 - Electrical System - Armrest Display Unit Overall Diagnostics
ADU	523773	03	Service Alert	CAN 1 high (cc# 964) voltage high	Section 240 - Electrical System - CAN Bus Diagnostics
ADU	523773	04	Service Alert	CAN 1 high (cc# 964) voltage low	Section 240 - Electrical System - CAN Bus Diagnostics
ADU	523774	03	Service Alert	CAN 1 low (cc# 965) voltage high	Section 240 - Electrical System - CAN Bus Diagnostics
ADU	523774	04	Service Alert	CAN 1 low (cc# 965) voltage low	Section 240 - Electrical System - CAN Bus Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
ADU	524050	12	Info	Clock functionality may be invalid.	Section 240 - Electrical System - CAN Bus Diagnostics
ADU	524076	10	Info	Armrest display unit switch 5 problem	Section 240 - Electrical System - Armrest Display Unit Overall Diagnostics
ADU	524077	10	Info	Armrest display unit switch 4 problem	Section 240 - Electrical System - Armrest Display Unit Overall Diagnostics
ADU	524078	10	Info	Armrest display unit switch 3 problem	Section 240 - Electrical System - Armrest Display Unit Overall Diagnostics
ADU	524080	10	Info	Armrest display unit switch 2 problem	Section 240 - Electrical System - Armrest Display Unit Overall Diagnostics
ADU	524082	10	Info	Armrest display unit switch 1 problem	Section 240 - Electrical System - Armrest Display Unit Overall Diagnostics
ADU	524215	03	Service Alert	Implement CAN High Line Voltage High (unused)	Section 240 - Electrical System - CAN Bus Diagnostics
ADU	524215	04	Service Alert	Implement CAN High Line Voltage Low (unused)	Section 240 - Electrical System - CAN Bus Diagnostics
ADU	524217	03	Service Alert	Implement CAN Low Line Voltage High (unused)	Section 240 - Electrical System - CAN Bus Diagnostics
ADU	524217	04	Service Alert	Implement CAN Low Line Voltage Low (unused)	Section 240 - Electrical System - CAN Bus Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Diagnostic Trouble Codes - CAB - Control Unit CAB and Cab Power Module

Cont.	SPN	FMI	Priority	Description	Go to
CAB	70	03	Warning	Park brake engaged indicator (cc# 519) has voltage present when control unit CAB has turned low side driver ON.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	70	06	Warning	Park brake engaged indicator (cc# 519) has no voltage present when control unit CAB has turned low side driver OFF.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	170	03	Warning	Cab air temperature sensor output (cc# 766) is out of range - greater than 4.93 VDC.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	170	04	Warning	Cab air temperature sensor output (cc# 766) is out of range - less than 0.10 VDC.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	171	03	Warning	Cab inlet air temperature sensor output (cc# 763) is out of range - greater than 4.93 VDC.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	171	04	Warning	Cab inlet air temperature sensor output (cc# 763) is out of range - less than 0.10 VDC.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	629	12	Warning	Control unit CAB has reset itself due to watchdog timer.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	677	03	Warning	Start relay signal (cc# 107) is ON when commanded OFF by control unit CAB.	Section 240 - Electrical System - Starter Diagnostics
CAB	677	06	Warning	Start relay signal (cc# 107) is OFF when commanded ON by control unit CAB.	Section 240 - Electrical System - Starter Diagnostics
CAB	746	03	Warning	Differential lock indicator (cc# 521) has voltage present when control unit CAB has turned low side driver ON.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	746	06	Warning	Differential lock indicator (cc# 521) has no voltage present when control unit CAB has turned low side driver OFF.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	875	04	Warning	HVAC low pressure switch is open.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	1231	09	Warning	No Local CAN Bus messages are arriving.	Section 240 - Electrical System - Local Link System - CAB/CPM Diagnostics
CAB	1487	03	Warning	Dimmer (cc# 549) is out of range - greater than 4.5 VDC.	Section 240 - Electrical System - Lighting System - Panel Lights Diagnostics
CAB	1487	04	Warning	Dimmer (cc# 549) is out of range - less than 0.5 VDC.	Section 240 - Electrical System - Lighting System - Panel Lights Diagnostics
CAB	1491	03	Warning	Cab backlighting (cc# 511) is ON when commanded OFF by control unit CAB.	Section 240 - Electrical System - Lighting System - Panel Lights Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
CAB	1491	06	Warning	Cab backlighting (cc# 511) is OFF when commanded ON by control unit CAB.	Section 240 - Electrical System - Lighting System - Panel Lights Diagnostics
CAB	1497	03	Warning	Unloading auger indicator (cc# 533) is ON when commanded OFF by control unit CAB.	Section 240 - Electrical System - Unloading Auger Engage Diagnostics
CAB	1497	06	Warning	Unloading auger indicator (cc# 533) is OFF when commanded ON by control unit CAB.	Section 240 - Electrical System - Unloading Auger Engage Diagnostics
CAB	1503	03	Warning	A row of switches in the armrest switch matrix is shorted to voltage.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	1503	05	Warning	Armrest matrix connection status (cc# 928) voltage too low.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	1503	11	Warning	A column of switches in the armrest switch matrix is shorted to ground.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	1504	04	Warning	Seat switch has remained closed for 8 continuous hours of operation.	Section 240 - Electrical System - Header Engage Diagnostics - Type A
CAB	1544	03	Warning	A row of switches in the multifunction control handle is shorted to voltage.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	1544	11	Warning	A column of switches in the multifunction control handle is shorted to ground.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	1547	03	Warning	Core temperature sensor output (cc# 764) is out of range - greater than 4.93 VDC.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	1547	04	Warning	Core temperature sensor output (cc# 764) is out of range - less than 0.10 VDC.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	1549	00	Calibration	Temperature door position (cc# 774) is out of range when fully closed - greater than 4.75 VDC.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	1549	01	Calibration	Temperature door position (cc# 774) is out of range when fully open - less than 0.25 VDC.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	1549	03	Warning	Temperature door position (cc# 774) is out of range - greater than 4.8 VDC.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	1549	04	Warning	Temperature door position (cc# 774) is out of range - less than 0.2 VDC.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	1549	06	Warning	Temperature door actuator high (cc# 771) is OFF when commanded ON by control unit CAB.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
CAB	1549	12	Warning	Temperature door has not completed the movement requested by the control unit CAB.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	1549	13	Information	Temperature door has not been calibrated	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	1549	16	Calibration	Temperature door position (cc# 774) is out of range when fully open - greater than 1.00 VDC.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	1549	18	Calibration	Temperature door position (cc# 774) is out of range when fully closed - less than 4.00 VDC.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	1852	03	Warning	Transmission mode 1 indicator (cc# 538) has voltage present when control unit CAB has turned low side driver ON.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	1852	06	Warning	Transmission mode 1 indicator (cc# 538) has no voltage present when control unit CAB has turned low side driver OFF.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	1853	03	Warning	Transmission mode 2 indicator (cc# 539) has voltage present when control unit CAB has turned low side driver ON.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	1853	06	Warning	Transmission mode 2 indicator (cc# 539) has no voltage present when control unit CAB has turned low side driver OFF.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	1865	11	Warning	One of the following conditions occurred: Key switch run (cc# 013) is ON when key switch accessory (cc# 011) and key switch start (cc# 104) is OFF Key switch start (cc# 104) is ON when key switch run (cc# 013) is OFF. Key switch start (cc# 104) is ON when key switch accessory (cc# 011) is ON.	Section 240 - Electrical System - Starter Diagnostics
CAB	1867	06	Warning	CPM micro power (cc# 012) is OFF when commanded ON by control unit CAB.	Section 240 - Electrical System - Local Link System - CAB/CPM Diagnostics
CAB	2348	03	Warning	Cab roof lights 3,4 high (cc# 585) is ON when commanded OFF by control unit CAB.	Section 240 - Electrical System - Lighting System - Road Diagnostics - Type A
CAB	2348	05	Warning	Cab roof lights 3,4 high (cc# 585) is open circuit.	Section 240 - Electrical System - Lighting System - Road Diagnostics - Type A
CAB	2348	06	Warning	Cab roof lights 3,4 high (cc# 585) is OFF when commanded ON by control unit CAB.	Section 240 - Electrical System - Lighting System - Road Diagnostics - Type A
CAB	2368	03	Warning	Left turn/trailer indicator (cc# 569) is ON when commanded OFF by control unit CAB.	Section 240 - Electrical System - Co0ntrol Unit CAB/CPM Overall Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
CAB	2368	06	Warning	Left turn/trailer indicator (cc# 569) is OFF when commanded ON by control unit CAB.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	2370	03	Warning	Right turn/combine indicator (cc# 597) is ON when commanded OFF by control unit CAB.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	2370	06	Warning	Right turn/combine indicator (cc# 597) is OFF when commanded ON by control unit CAB.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	2386	03	Warning	Front beacon light (cc# 573) is ON when commanded OFF by control unit CAB.	Section 240 - Electrical System - Lighting - Beacon Light Diagnostics
CAB	2386	05	Warning	Front beacon light (cc# 573) is open circuit.	Section 240 - Electrical System - Lighting - Beacon Light Diagnostics
CAB	2386	06	Warning	Front beacon light (cc# 573) is OFF when commanded ON by control unit CAB.	Section 240 - Electrical System - Lighting - Beacon Light Diagnostics
CAB	2876	11	Warning	Right turn signal (cc# 513) and left turn signal (cc# 514) are ON at the same time.	Section 240 - Electrical System - Lighting - Hazard Lights Diagnostics
CAB	3509	03	Warning	Control unit CAB sensor supply 1 (cc# 233) is out of range - greater than 5.5 VDC.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	3509	04	Warning	Control unit CAB sensor supply 1 (cc# 233) is out of range - less than 4.5 VDC.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	3510	03	Warning	Control unit CAB sensor supply 2 (cc# 243) is out of range - greater than 5.5 VDC.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	3510	04	Warning	Control unit CAB sensor supply 2 (cc# 243) is out of range - less than 4.5 VDC.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	3597	06	Information	CAB PTC power (cc# 552) is out of range - less than 4.0 VDC.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	523319	03	Stop	CAB switched power (cc# 932) is ON when commanded OFF by control unit CAB.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	523319	06	Warning	CAB switched power (cc# 932) is OFF when commanded ON by control unit CAB.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	523490	03	Warning	High idle indicator (cc# 529) has voltage present when control unit CAB has turned low side driver ON.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	523490	06	Warning	High idle indicator (cc# 529) has no voltage present when control unit CAB has turned low side driver OFF.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	523491	03	Warning	Mid idle indicator (cc# 528) has voltage present when control unit CAB has turned low side driver ON.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
CAB	523491	06	Warning	Mid idle indicator (cc# 528) has no voltage present when control unit CAB has turned low side driver OFF.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	523492	03	Warning	Low idle indicator (cc# 527) has voltage present when control unit CAB has turned low side driver ON.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	523492	06	Warning	Low idle indicator (cc# 527) has no voltage present when control unit CAB has turned low side driver OFF.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	523622	04	Information	CPM power 5 (cc# 062) less than 10.5 VDC at the CPM input.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	523623	03	Warning	Switched auxiliary power 1 (cc# 071) is ON when commanded OFF by control unit CAB.	Section 240 - Electrical System - Mirror System - Heater Diagnostics
CAB	523623	06	Warning	Switched auxiliary power 1 (cc# 071) is OFF when commanded ON by control unit CAB.	Section 240 - Electrical System - Mirror System - Heater Diagnostics
CAB	523624	03	Warning	Cab roof lights 3,4 (cc# 584) is ON when commanded OFF by control unit CAB.	Section 240 - Electrical System - Lighting System - Road Diagnostics - Type A
CAB	523624	05	Warning	Cab roof lights 3,4 (cc# 584) is open circuit.	Section 240 - Electrical System - Lighting System - Road Diagnostics - Type A
CAB	523624	06	Warning	Cab roof lights 3,4 (cc# 584) is OFF when commanded ON by control unit CAB.	Section 240 - Electrical System - Lighting System - Road Diagnostics - Type A
CAB	523625	00	Calibration	Fan speed adjust (cc# 074) is out of range at maximum - greater than 4.25 VDC.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	523625	01	Calibration	Fan speed adjust (cc# 074) is out of range at minimum - less than 0.25 VDC.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	523625	03	Warning	Fan speed adjust (cc# 074) is out of range - greater than 4.50 VDC.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	523625	04	Warning	Fan speed adjust (cc# 074) is out of range - less than 0.50 VDC.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	523625	13	Information	Fan speed adjust (cc# 074) has not been calibrated	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	523625	16	Calibration	Fan speed adjust (cc# 074) is out of range at minimum - greater than 1.00 VDC.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	523625	18	Calibration	Fan speed adjust (cc# 074) is out of range at maximum - less than 4.00 VDC.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
CAB	523626	14	Warning	Right rear red light (cc# 517) output driver fault.	Section 240 - Electrical System - Lighting System - Hazard Diagnostics
CAB	523627	14	Warning	Left rear red light (cc# 518) output driver fault.	Section 240 - Electrical System - Lighting System - Hazard Diagnostics
CAB	523628	14	Warning	Front beacon light (cc# 573) output driver fault.	Section 240 - Electrical System - Lighting - Beacon Light Diagnostics
CAB	523629	03	Warning	Left amber lights (cc# 516) is ON when commanded OFF by control unit CAB.	Section 240 - Electrical System - Lighting System - Hazard Diagnostics
CAB	523629	05	Warning	Left amber lights (cc# 516) is open circuit.	Section 240 - Electrical System - Lighting System - Hazard Diagnostics
CAB	523629	06	Warning	Left amber lights (cc# 516) is OFF when commanded ON by control unit CAB.	Section 240 - Electrical System - Lighting System - Hazard Diagnostics
CAB	523630	03	Warning	Cab roof lights 1,6 (cc# 581) is ON when commanded OFF by control unit CAB.	Section 240 - Electrical System - Lighting System - Road Diagnostics - Type A
CAB	523630	05	Warning	Cab roof lights 1,6 (cc# 581) is open circuit.	Section 240 - Electrical System - Lighting System - Road Diagnostics - Type A
CAB	523630	06	Warning	Cab roof lights 1,6 (cc# 581) is OFF when commanded ON by control unit CAB.	Section 240 - Electrical System - Lighting System - Road Diagnostics - Type A
CAB	523631	03	Warning	Recirculation fan power (cc# 082) is ON when commanded OFF by control unit CAB.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	523631	05	Warning	Recirculation fan power (cc# 082) is open circuit.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	523631	06	Warning	Recirculation fan power (cc# 082) is OFF when commanded ON by control unit CAB.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	523632	03	Warning	Cab roof lights 2,5 (cc# 583) is ON when commanded OFF by control unit CAB.	Section 240 - Electrical System - Lighting System - Field Diagnostics
CAB	523632	05	Warning	Cab roof lights 2,5 (cc# 583) is open circuit.	Section 240 - Electrical System - Lighting System - Field Diagnostics
CAB	523632	06	Warning	Cab roof lights 2,5 (cc# 583) is OFF when commanded ON by control unit CAB.	Section 240 - Electrical System - Lighting System - Field Diagnostics
CAB	523633	03	Warning	Right amber lights (cc# 515) is ON when commanded OFF by control unit CAB.	Section 240 - Electrical System - Lighting System - Hazard Diagnostics
CAB	523633	05	Warning	Right amber lights (cc# 515) is open circuit.	Section 240 - Electrical System - Lighting System - Hazard Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
CAB	523633	6	Warning	Right amber lights (cc# 515) is OFF when commanded ON by control unit CAB.	Section 240 - Electrical System - Lighting System - Hazard Diagnostics
CAB	523634	03	Warning	Hazard lights indicator (cc# 555) is ON when commanded OFF by control unit CAB.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	523634	06	Warning	Hazard lights indicator (cc# 555) is OFF when commanded ON by control unit CAB.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	523635	03	Warning	Feedrate enabled indicator (cc# 541) has voltage present when control unit CAB has turned low side driver ON.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	523635	06	Warning	Feedrate enabled indicator (cc# 541) has no voltage present when control unit CAB has turned low side driver OFF.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	523636	03	Warning	4WD low indicator (cc# 536) has voltage present when control unit CAB has turned low side driver ON.	Section 240 - Electrical System - Four Wheel Drive Diagnostics
CAB	523636	06	Warning	4WD low indicator (cc# 536) has no voltage present when control unit CAB has turned low side driver OFF.	Section 240 - Electrical System - Four Wheel Drive Diagnostics
CAB	523637	03	Warning	4WD high indicator (cc# 543) has voltage present when control unit CAB has turned low side driver ON.	Section 240 - Electrical System - Four Wheel Drive Diagnostics
CAB	523637	06	Warning	4WD high indicator (cc# 543) has no voltage present when control unit CAB has turned low side driver OFF.	Section 240 - Electrical System - Four Wheel Drive Diagnostics
CAB	523638	03	Warning	Road/field indicator (cc# 534) has voltage present when control unit CAB has turned low side driver ON.	Section 240 - Electrical System - Starter Diagnostics or Road / Field Diagnostics
CAB	523638	06	Warning	Road/field indicator (cc# 534) has no voltage present when control unit CAB has turned low side driver OFF.	Section 240 - Electrical System - Road / Field Diagnostics
CAB	523639	03	Warning	Right rear red light (cc# 517) is ON when commanded OFF by control unit CAB.	Section 240 - Electrical System - Lighting System - Hazard Diagnostics
CAB	523639	05	Warning	Right rear red light (cc# 517) is open circuit.	Section 240 - Electrical System - Lighting System - Hazard Diagnostics
CAB	523639	06	Warning	Right rear red light (cc# 517) is OFF when commanded ON by control unit CAB.	Section 240 - Electrical System - Lighting System - Hazard Diagnostics
CAB	523640	03	Warning	Left rear red light (cc# 518) is ON when commanded OFF by control unit CAB.	Section 240 - Electrical System - Lighting System - Hazard Diagnostics
CAB	523640	05	Warning	Left rear red light (cc# 518) is open circuit.	Section 240 - Electrical System - Lighting System - Hazard Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
CAB	523640	06	Warning	Left rear red light (cc# 518) is OFF when commanded ON by control unit CAB.	Section 240 - Electrical System - Lighting System - Hazard Diagnostics
CAB	523641	00	Calibration	Temperature adjust (cc# 075) is out of range at maximum - greater than 4.25 VDC.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	523641	01	Calibration	Temperature adjust (cc# 075) is out of range at minimum - less than 0.25 VDC.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	523641	03	Warning	Temperature adjust (cc# 075) is out of range - greater than 4.50 VDC.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	523641	04	Warning	Temperature adjust (cc# 075) is out of range - less than 0.50 VDC.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	523641	13	Information	Temperature adjust (cc# 075) has not been calibrated.	Section 240 - Electrical System - Calibration Procedures
CAB	523641	16	Calibration	Temperature adjust (cc# 075) is out of range at minimum - greater than 1.00 VDC.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	523641	18	Calibration	Temperature adjust (cc# 075) is out of range at maximum - less than 4.00 VDC.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	523642	03	Warning	CAN Bus message from control unit RCU that HVAC high pressure switch is open.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	523643	03	Warning	Handle position 1 (cc# 935) is out of range - greater than 4.5 VDC.	Section 240 - Electrical System - Hydrostatic Drive Control Diagnostics - Manual
CAB	523643	04	Warning	Handle position 1 (cc# 935) is out of range - less than 0.5 VDC.	Section 240 - Electrical System - Hydrostatic Drive Control Diagnostics - Manual
CAB	523644	11	Warning	One of the following conditions occurred: Separator engage ON switch (cc# 933) and separator engage OFF switch (cc# 931) are ON at the same time. Separator engage ON switch (cc# 933) and separator engage OFF switch (cc# 931) are OFF at the same time.	Section 240 - Electrical System - Separator Engage Diagnostics
CAB	523645	11	Warning	One of the following conditions occurred: Header engage switch (cc# 988) is ON when both header forward switch (cc# 987) and header reverse switch (cc# 989) are OFF. Header engage switch (cc# 988) is OFF when either header forward switch (cc# 987) or header reverse switch (cc# 989) is ON. Header engage switch (cc# 988) is ON when both header forward switch (cc# 987) and header reverse switch (cc# 989) are ON.	Section 240 - Electrical System - Header Engage Diagnostics - Type A

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
CAB	523646	03	Warning	Outlet air temperature sensor output (cc# 761) is out of range - greater than 4.93 VDC.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	523646	04	Warning	Outlet air temperature sensor output (cc# 761) is out of range - less than 0.10 VDC.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	523647	03	Warning	Temperature door actuator high (cc# 771) and/or Temperature door actuator low (cc# 773) is ON when commanded OFF by control unit CAB.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	523647	06	Warning	Temperature door actuator low (cc# 773) is OFF when commanded ON by control unit CAB.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	523648	04	Information	CPM power 4 (cc# 052) less than 10.5 VDC at the CPM input.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	523649	04	Information	CPM power 3 (cc# 042) less than 10.5 VDC at the CPM input.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	523650	04	Information	CPM power 2 (cc# 032) less than 10.5 VDC at the CPM input.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	523653	04	Information	CPM power 1 (cc# 022) less than 10.5 VDC at the CPM input.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	523665	04	Information	CCU/CDU/GS2/Cab Power 1 (cc# 072) at connector X555 is less than 4.0 VDC.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	523666	04	Information	CCU/CDU/GS2/Cab Power 1 (cc# 072) at connector X553 is less than 4.0 VDC.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	523667	03	Warning	Chassis tilt engaged indicator (cc# 535) has voltage present when control unit CAB has turned low side driver ON.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	523667	06	Warning	Chassis tilt engaged indicator (cc# 535) has no voltage present when control unit CAB has turned low side driver OFF.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	523668	03	Warning	Function active indicator (cc# 537) has voltage present when control unit CAB has turned low side driver ON.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	523668	06	Warning	Function active indicator (cc# 537) has no voltage present when control unit CAB has turned low side driver OFF.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	523672	03	Warning	Pressurizer fan motor (cc# 921) is ON when commanded OFF by control unit CAB.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	523672	05	Warning	Pressurizer fan motor (cc# 921) is open circuit.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
CAB	523672	06	Warning	Pressurizer fan motor (cc# 921) is OFF when commanded ON by control unit CAB.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
CAB	523673	05	Information	Chassis ground (cc# 010) not connected to ground.	Section 240 - Electrical System - Control Unit CAB/CPM Overall Diagnostics
CAB	523746	03	Warning	During shut-down, key switch run signal (cc# 013) is OFF, system wakeup power (cc# 006) commanded OFF but is sensed ON. Will be stored code only.	Section 240 - Electrical System - Power Distribution - Wake-up Power Diagnostics
CAB	523746	04	Warning	During start-up, key switch run signal (cc# 013) is ON but system wakeup power (cc# 006) is OFF before commanded ON.	Section 240 - Electrical System - Power Distribution - Wake-up Power Diagnostics
CAB	523746	06	Warning	System wakeup power (cc# 006) is OFF when commanded ON by control unit CAB.	Section 240 - Electrical System - Power Distribution - Wake-up Power Diagnostics

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Diagnostic Trouble Codes - CDU - Cornerpost Display Unit

Cont.	SPN	FMI	Priority	Description	Go to
CDU	629	12	Service Alert	Control unit CDU has reset itself due to watchdog timer.	Section 240 - Electrical System - CAN Bus Diagnostics
CDU	639	12	Service Alert	CAN Bus 1 message is not arriving on time or missing.	Section 240 - Electrical System - CAN Bus Diagnostics
CDU	639	14	Service Alert	No CAN Bus messages are arriving.	Section 240 - Electrical System - CAN Bus Diagnostics
CDU	523370	03	Service Alert	Cornerpost switch matrix shorted high	Section 240 - Electrical System - Control Unit CDU Overall Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Diagnostic Trouble Codes - ECU - Engine Control Unit

Control Unit	SPN	FMI	Priority	Description	Go to
ECU	91	09	Information	CAN Bus message containing throttle input not valid or not received.	Section 220 - Engine System - Engine Diagnostics
ECU	94	01	Stop	Fuel pressure too low - most severe level.	Section 220 - Engine System - Engine Diagnostics
ECU	94	03	Warning	Fuel pressure sensor voltage out of range high.	Section 220 - Engine System - Engine Diagnostics
ECU	94	04	Warning	Fuel pressure sensor voltage out of range low.	Section 220 - Engine System - Engine Diagnostics
ECU	94	16	Warning	Fuel pressure too high - moderately severe level.	Section 220 - Engine System - Engine Diagnostics
ECU	94	17	Warning	Fuel pressure too low - least severe level.	Section 220 - Engine System - Engine Diagnostics
ECU	94	18	Warning	Fuel pressure too low - moderately severe level.	Section 220 - Engine System - Engine Diagnostics
ECU	97	03	Warning	Water in fuel sensor voltage out of range high.	Section 220 - Engine System - Engine Diagnostics
ECU	97	04	Warning	Water in fuel sensor voltage out of range low.	Section 220 - Engine System - Engine Diagnostics
ECU	97	16	Stop	Water detected in fuel.	Section 220 - Engine System - Engine Diagnostics
ECU	100	01	Stop	Oil pressure low - most severe level.	Section 220 - Engine System - Engine Diagnostics
ECU	100	03	Warning	Oil pressure sensor (cc# 5467) voltage out of range high.	Section 220 - Engine System - Engine Diagnostics
ECU	100	04	Warning	Oil pressure sensor (cc# 5467) voltage out of range low.	Section 220 - Engine System - Engine Diagnostics
ECU	100	18	Warning	Oil pressure low - moderately severe level.	Section 220 - Engine System - Engine Diagnostics
ECU	100	31	Warning	Oil pressure detected at zero engine speed.	Section 220 - Engine System - Engine Diagnostics
ECU	102	02	Warning	Predicted boost pressure and measured boost pressure mismatch.	Section 220 - Engine System - Engine Diagnostics
ECU	102	03	Warning	Manifold air pressure sensor (cc# 5468) voltage out of range high.	Section 220 - Engine System - Engine Diagnostics
ECU	102	04	Warning	Manifold air pressure sensor (cc# 5468) voltage out of range low.	Section 220 - Engine System - Engine Diagnostics
ECU	103	00	Warning	Turbocharger speed sensor (cc# 5435) speed too high - most severe level.	Section 220 - Engine System - Engine Diagnostics
ECU	103	02	Warning	Turbocharger speed sensor (cc# 5435) speed incorrect. Predicted speed and measured speed mismatch.	Section 220 - Engine System - Engine Diagnostics
ECU	103	05	Warning	Open circuit detected in turbocharger speed sensor (cc# 5435).	Section 220 - Engine System - Engine Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Control Unit	SPN	FMI	Priority	Description	Go to
ECU	103	06	Warning	Short circuit detected in turbocharger speed sensor (cc# 5435).	Section 220 - Engine System - Engine Diagnostics
ECU	103	08	Warning	Turbocharger speed sensor (cc# 5435) speed incorrect.	Section 220 - Engine System - Engine Diagnostics
ECU	103	31	Warning	Turbocharger speed sensor (cc# 5435) input missing.	Section 220 - Engine System - Engine Diagnostics
ECU	105	00	Stop	Engine manifold air temperature too high - most severe level. Maximum power level is derated. Power boost is disabled.	Section 220 - Engine System - Engine Diagnostics
ECU	105	03	Warning	Engine manifold air temperature sensor voltage is out of range high.	Section 220 - Engine System - Engine Diagnostics
ECU	105	04	Warning	Engine manifold air temperature sensor voltage is out of range low.	Section 220 - Engine System - Engine Diagnostics
ECU	105	15	Warning	Engine manifold air temperature too high - least severe level.	Section 220 - Engine System - Engine Diagnostics
ECU	105	16	Warning	Engine manifold air temperature too high - moderately severe level. Maximum power level is derated. Power boost is disabled.	Section 220 - Engine System - Engine Diagnostics
ECU	107	00	Warning	Air filter restricted switch indicates a plugged air filter.	Section 220 - Engine System - Engine Diagnostics
ECU	108	02	Warning	Barometric pressure invalid	Section 220 - Engine System - Engine Diagnostics
ECU	110	00	Stop	Engine coolant temperature too high - most severe level. Maximum power level is derated. Power boost is disabled.	Section 220 - Engine System - Engine Diagnostics
ECU	110	03	Warning	Engine coolant temperature sensor voltage is out of range high.	Section 220 - Engine System - Engine Diagnostics
ECU	110	04	Warning	Engine coolant temperature sensor voltage is out of range low.	Section 220 - Engine System - Engine Diagnostics
ECU	110	15	Warning	Engine coolant temperature too high - least severe level. Maximum power level is derated. Power boost is disabled.	Section 220 - Engine System - Engine Diagnostics
ECU	110	16	Warning	Engine coolant temperature too high - moderately severe level. Maximum power level is derated. Power boost is disabled.	Section 220 - Engine System - Engine Diagnostics
ECU	110	17	Warning	Engine coolant temperature too low - least severe level.	Section 220 - Engine System - Engine Diagnostics
ECU	157	01	Stop	Fuel pressure low - most severe level. (6135)	Section 220 - Engine System - Engine Diagnostics
ECU	157	03	Stop	Rail pressure sensor (cc# 5475) voltage out of range high. (6068, 6090)	Section 220 - Engine System - Engine Diagnostics
ECU	157	03	Warning	Fuel pressure sensor (cc# 5469) voltage out of range high. (6135)	Section 220 - Engine System - Engine Diagnostics
ECU	157	04	Stop	Rail pressure sensor (cc# 5475) voltage out of range low. (6068, 6090)	Section 220 - Engine System - Engine Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Control Unit	SPN	FMI	Priority	Description	Go to
ECU	157	04	Warning	Fuel pressure sensor (cc# 5469) voltage out of range low. (6135)	Section 220 - Engine System - Engine Diagnostics
ECU	157	10	Warning	Rail pressure (cc# 5475) drops too fast when engine is motoring and high pressure pump is off. (6068, 6090)	Section 220 - Engine System - Engine Diagnostics
ECU	157	16	Warning	Fuel pressure high - moderately severe level. (6135)	Section 220 - Engine System - Engine Diagnostics
ECU	157	17	Warning	Rail pressure (cc# 5475) is below 10 mPa during starting. (6068, 6090)	Section 220 - Engine System - Engine Diagnostics
ECU	157	18	Warning	Fuel pressure low - moderately severe level. (6135)	Section 220 - Engine System - Engine Diagnostics
ECU	158	17	Warning	Controller not powered down properly. Battery voltage does not go to 0 VDC.	Section 220 - Engine System - Engine Diagnostics
ECU	174	00	Warning	Engine fuel temperature high - most severe level	Section 220 - Engine System - Engine Diagnostics
ECU	174	03	Warning	Engine fuel temperature sensor voltage is out of range high.	Section 220 - Engine System - Engine Diagnostics
ECU	174	04	Warning	Engine fuel temperature sensor voltage is out of range low.	Section 220 - Engine System - Engine Diagnostics
ECU	174	16	Warning	Engine fuel temperature too high - moderately severe level.	Section 220 - Engine System - Engine Diagnostics
ECU	189	00	Stop	Engine speed derated	Section 220 - Engine System - Engine Diagnostics
ECU	412	00	Stop	Exhaust gas recirculation temperature high - most severe level.	Section 220 - Engine System - Engine Diagnostics
ECU	412	03	Warning	Exhaust temperature out of range high.	Section 220 - Engine System - Engine Diagnostics
ECU	412	04	Warning	Exhaust temperature out of range low.	Section 220 - Engine System - Engine Diagnostics
ECU	412	15	Warning	Exhaust gas recirculation temperature high - least severe level	Section 220 - Engine System - Engine Diagnostics
ECU	412	16	Stop	Exhaust gas recirculation temperature high - moderately severe level.	Section 220 - Engine System - Engine Diagnostics
ECU	611	03	Stop	The injector driver has detected a short to voltage in the injector wiring.	Section 220 - Engine System - Engine Diagnostics
ECU	611	04	Stop	The injector driver has detected a short to ground in the injector wiring.	Section 220 - Engine System - Engine Diagnostics
ECU	627	01	Warning	Injector pull-in current too low or hold current incorrect.	Section 220 - Engine System - Engine Diagnostics
ECU	627	18	Warning	Low Voltage	Section 220 - Engine System - Engine Diagnostics
ECU	629	13	Stop	Control unit ECU has not been programmed.	Section 220 - Engine System - Engine Diagnostics
ECU	636	02	Warning	Electrical noise is detected on the engine position signal (cc# 5445).	Section 220 - Engine System - Engine Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Control Unit	SPN	FMI	Priority	Description	Go to
ECU	636	05	Warning	Engine position signal (cc# 5445) current too low.	Section 220 - Engine System - Engine Diagnostics
ECU	636	06	Warning	Engine position signal (cc# 5445) current too high.	Section 220 - Engine System - Engine Diagnostics
ECU	636	08	Warning	Engine position signal (cc# 5445) signal is missing.	Section 220 - Engine System - Engine Diagnostics
ECU	636	10	Warning	Engine position signal (cc# 5445) signal has incorrect pulse pattern.	Section 220 - Engine System - Engine Diagnostics
ECU	637	02	Warning	Electrical noise detected on the engine timing signal (cc# 5447).	Section 220 - Engine System - Engine Diagnostics
ECU	637	05	Warning	Engine timing signal (cc# 5447) current too low.	Section 220 - Engine System - Engine Diagnostics
ECU	637	06	Warning	Engine timing signal (cc# 5447) current too high.	Section 220 - Engine System - Engine Diagnostics
ECU	637	07	Warning	Position relationship between engine timing signal (cc# 5447) and engine position signal (cc# 5445) not correct.	Section 220 - Engine System - Engine Diagnostics
ECU	637	08	Warning	Engine timing signal (cc# 5447) signal is missing.	Section 220 - Engine System - Engine Diagnostics
ECU	637	10	Warning	Engine timing signal (cc# 5447) signal has incorrect pulse pattern.	Section 220 - Engine System - Engine Diagnostics
ECU	641	04	Warning	Turbocharger actuator had to be power cycled too many times due to actuation or learn failures.	Section 220 - Engine System - Engine Diagnostics
ECU	641	05	Warning	Turbocharger actuator current too low.	Section 220 - Engine System - Engine Diagnostics
ECU	641	12	Warning	Loss of communication between the turbocharger controller and control unit ECU.	Section 220 - Engine System - Engine Diagnostics
ECU	641	13	Warning	Turbocharger learn error.	Section 220 - Engine System - Engine Diagnostics
ECU	641	16	Warning	Turbocharger temperature too high - moderately severe level.	Section 220 - Engine System - Engine Diagnostics
ECU	651	02	Stop	Injector #1 part number invalid.	Section 220 - Engine System - Engine Diagnostics
ECU	651	05	Warning	Current to injector #1 is less than expected.	Section 220 - Engine System - Engine Diagnostics
ECU	651	06	Warning	Current to injector #1 increases too rapidly.	Section 220 - Engine System - Engine Diagnostics
ECU	651	07	Warning	The fuel flow to cylinder #1 is lower than expected.	Section 220 - Engine System - Engine Diagnostics
ECU	651	13	Warning	Injector #1 part number is correct but calibration string is not what is expected.	Section 220 - Engine System - Engine Diagnostics
ECU	652	02	Stop	Injector #2 part number invalid	Section 220 - Engine System - Engine Diagnostics
ECU	652	05	Warning	The current to injector #2 is less than expected.	Section 220 - Engine System - Engine Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Control Unit	SPN	FMI	Priority	Description	Go to
ECU	652	06	Warning	The current to injector #2 increases too rapidly.	Section 220 - Engine System - Engine Diagnostics
ECU	652	07	Warning	The fuel flow to cylinder #2 is lower than expected.	Section 220 - Engine System - Engine Diagnostics
ECU	652	13	Warning	Injector #2 part number is correct but calibration string is not what is expected.	Section 220 - Engine System - Engine Diagnostics
ECU	653	02	Stop	Injector #3 part number invalid	Section 220 - Engine System - Engine Diagnostics
ECU	653	05	Warning	The current to injector #3 is less than expected.	Section 220 - Engine System - Engine Diagnostics
ECU	653	06	Warning	The current to injector #3 increases too rapidly.	Section 220 - Engine System - Engine Diagnostics
ECU	653	07	Warning	The fuel flow to cylinder #3 is lower than expected.	Section 220 - Engine System - Engine Diagnostics
ECU	653	13	Warning	Injector #3 part number is correct but calibration string is not what is expected.	Section 220 - Engine System - Engine Diagnostics
ECU	654	02	Stop	Injector #4 part number invalid	Section 220 - Engine System - Engine Diagnostics
ECU	654	05	Warning	The current to injector #4 is less than expected.	Section 220 - Engine System - Engine Diagnostics
ECU	654	06	Warning	The current to injector #4 increases too rapidly.	Section 220 - Engine System - Engine Diagnostics
ECU	654	07	Warning	The fuel flow to cylinder #4 is lower than expected.	Section 220 - Engine System - Engine Diagnostics
ECU	654	13	Warning	Injector #4 part number is correct but calibration string is not what is expected.	Section 220 - Engine System - Engine Diagnostics
ECU	655	02	Stop	Injector #5 part number invalid	Section 220 - Engine System - Engine Diagnostics
ECU	655	05	Warning	The current to injector #5 is less than expected.	Section 220 - Engine System - Engine Diagnostics
ECU	655	06	Warning	The current to injector #5 increases too rapidly.	Section 220 - Engine System - Engine Diagnostics
ECU	655	07	Warning	The fuel flow to cylinder #5 is lower than expected.	Section 220 - Engine System - Engine Diagnostics
ECU	655	13	Warning	Injector #5 part number is correct but calibration string is not what is expected.	Section 220 - Engine System - Engine Diagnostics
ECU	656	02	Stop	Injector #6 part number invalid	Section 220 - Engine System - Engine Diagnostics
ECU	656	05	Warning	The current to injector #6 is less than expected.	Section 220 - Engine System - Engine Diagnostics
ECU	656	06	Warning	The current to injector #6 increases too rapidly.	Section 220 - Engine System - Engine Diagnostics
ECU	656	07	Warning	The fuel flow to cylinder #6 is lower than expected.	Section 220 - Engine System - Engine Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Control Unit	SPN	FMI	Priority	Description	Go to
ECU	656	13	Warning	Injector #6 part number is correct but calibration string is not what is expected.	Section 220 - Engine System - Engine Diagnostics
ECU	676	03	Warning	Glow plug relay stuck on or shorted to power.	Section 220 - Engine System - Engine Diagnostics
ECU	676	05	Warning	Glow plug relay failed or circuit open.	Section 220 - Engine System - Engine Diagnostics
ECU	1075	05	Warning	Electric fuel pump current is too low.	Section 220 - Engine System - Engine Diagnostics
ECU	1075	06	Warning	Electric fuel pump current is too high.	Section 220 - Engine System - Engine Diagnostics
ECU	1075	12	Warning	Electric fuel pump failed.	Section 220 - Engine System - Engine Diagnostics
ECU	1136	00	Stop	Control unit ECU temperature too high - most severe level.	Section 220 - Engine System - Engine Diagnostics
ECU	1136	16	Warning	Control unit ECU temperature too high - moderately severe level.	Section 220 - Engine System - Engine Diagnostics
ECU	1172	03	Warning	Turbocharger compressor inlet temperature (cc# 5516) out of range high.	Section 220 - Engine System - Engine Diagnostics
ECU	1172	04	Warning	Turbocharger compressor inlet temperature (cc# 5516) out of range low.	Section 220 - Engine System - Engine Diagnostics
ECU	1180	00	Stop	Turbocharger turbine inlet temperature too high - most severe level. This is a value calculated from turbocharger speed.	Section 220 - Engine System - Engine Diagnostics
ECU	1180	16	Warning	Turbocharger turbine inlet temperature too high - moderately severe level. This is a value calculated from turbocharger speed.	Section 220 - Engine System - Engine Diagnostics
ECU	1347	03	Stop	Driver detects problem in circuit to pump solenoid low (cc# 178). Circuit has short to battery voltage. Detected only during harness diagnostics.	Section 220 - Engine System - Engine Diagnostics
ECU	1347	05	Stop	Driver detects problem in circuit to driver high (cc# 5424).	Section 220 - Engine System - Engine Diagnostics
ECU	1347	07	Warning	Rail pressure control is unable to match required rail pressure. It may be either too high or too low.	Section 220 - Engine System - Engine Diagnostics
ECU	1569	31	Warning	Engine protection - power derated due to other faults. This code occurs in conjunction with other codes that indicate faults.	Section 220 - Engine System - Engine Diagnostics
ECU	2000	13	Stop	Control unit ECU security violation.	Section 220 - Engine System - Engine Diagnostics
ECU	2630	00	Stop	Exhaust gas recirculation fresh air temperature high - most severe level. Engine will derate.	Section 220 - Engine System - Engine Diagnostics
ECU	2630	03	Warning	Exhaust gas recirculation fresh air temperature signal (cc# 5455) out of range high.	Section 220 - Engine System - Engine Diagnostics
ECU	2630	04	Warning	Exhaust gas recirculation fresh air temperature signal (cc# 5455) out of range low.	Section 220 - Engine System - Engine Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Control Unit	SPN	FMI	Priority	Description	Go to
ECU	2630	15	Warning	Exhaust gas recirculation fresh air temperature high - least severe level	Section 220 - Engine System - Engine Diagnostics
ECU	2630	16	Warning	Exhaust gas recirculation fresh air temperature high - moderately severe level. Engine will derate.	Section 220 - Engine System - Engine Diagnostics
ECU	2659	02	Warning	Exhaust gas recirculation flow/temperature mismatch	Section 220 - Engine System - Engine Diagnostics
ECU	2659	15	Warning	Exhaust gas recirculation flow higher than expected - least severe level	Section 220 - Engine System - Engine Diagnostics
ECU	2659	17	Warning	Exhaust gas recirculation flow lower than expected - least severe level	Section 220 - Engine System - Engine Diagnostics
ECU	2790	16	Warning	Turbocharger compressor outlet temperature high - moderately severe level. Engine will derate. This is a value calculated from compressor inlet temperature and turbocharger speed.	Section 220 - Engine System - Engine Diagnostics
ECU	2791	02	Warning	Exhaust gas recirculation valve position signal (cc# 5425) voltage mismatch	Section 220 - Engine System - Engine Diagnostics
ECU	2791	03	Warning	Exhaust gas recirculation valve position signal (cc# 5425) out of range high.	Section 220 - Engine System - Engine Diagnostics
ECU	2791	04	Warning	Exhaust gas recirculation valve position signal (cc# 5425) out of range low.	Section 220 - Engine System - Engine Diagnostics
ECU	2791	05	Warning	Exhaust gas recirculation valve position signal (cc# 5425) current below normal.	Section 220 - Engine System - Engine Diagnostics
ECU	2791	06	Warning	Exhaust gas recirculation valve position signal (cc# 5425) current above normal.	Section 220 - Engine System - Engine Diagnostics
ECU	2791	07	Warning	Exhaust gas recirculation valve not responding.	Section 220 - Engine System - Engine Diagnostics
ECU	2791	13	Warning	Exhaust gas recirculation valve out of calibration.	Section 220 - Engine System - Engine Diagnostics
ECU	2791	14	Stop	Exhaust gas recirculation valve turned off.	Section 220 - Engine System - Engine Diagnostics
ECU	2791	31	Warning	Exhaust gas recirculation valve position error.	Section 220 - Engine System - Engine Diagnostics
ECU	2795	07	Warning	Vane position feedback from variable geometry turbocharger is invalid. Engine will derate.	Section 220 - Engine System - Engine Diagnostics
ECU	2795	12	Warning	Controller is unable to obtain variable geometry turbocharger position. Engine will derate.	Section 220 - Engine System - Engine Diagnostics
ECU	3509	03	Stop	Sensor supply voltage #1 out of range high.	Section 220 - Engine System - Engine Diagnostics
ECU	3509	04	Stop	Sensor supply voltage #1 out of range low.	Section 220 - Engine System - Engine Diagnostics
ECU	3510	03	Warning	Sensor supply voltage #2 (cc# 5416) out of range high.	Section 220 - Engine System - Engine Diagnostics
ECU	3510	04	Warning	Sensor supply voltage #2 (cc# 5416) out of range low.	Section 220 - Engine System - Engine Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Control Unit	SPN	FMI	Priority	Description	Go to
ECU	3511	03	Warning	Sensor supply voltage #3 out of range high.	Section 220 - Engine System - Engine Diagnostics
ECU	3511	04	Warning	Sensor supply voltage #3 out of range low.	Section 220 - Engine System - Engine Diagnostics
ECU	3512	03	Warning	Sensor supply voltage #4 out of range high.	Section 220 - Engine System - Engine Diagnostics
ECU	3512	04	Warning	Sensor supply voltage #4 out of range low.	Section 220 - Engine System - Engine Diagnostics
ECU	3513	03	Warning	Sensor supply voltage #5 (cc# 5511) out of range high.	Section 220 - Engine System - Engine Diagnostics
ECU	3513	04	Warning	Sensor supply voltage #5 (cc# 5511) out of range low.	Section 220 - Engine System - Engine Diagnostics
ECU	3822	02	Warning	Exhaust gas recirculation 2 valve position signal (cc# 5515) voltage mismatch	Section 220 - Engine System - Engine Diagnostics
ECU	3822	03	Warning	Exhaust gas recirculation 2 valve position signal (cc# 5515) out of range high.	Section 220 - Engine System - Engine Diagnostics
ECU	3822	04	Warning	Exhaust gas recirculation 2 valve position signal (cc# 5515) out of range low.	Section 220 - Engine System - Engine Diagnostics
ECU	3822	05	Warning	Exhaust gas recirculation 2 valve position signal (cc# 5515) current below normal.	Section 220 - Engine System - Engine Diagnostics
ECU	3822	06	Warning	Exhaust gas recirculation 2 valve position signal (cc# 5515) current above normal.	Section 220 - Engine System - Engine Diagnostics
ECU	3822	07	Warning	Exhaust gas recirculation 2 valve not responding.	Section 220 - Engine System - Engine Diagnostics
ECU	3822	13	Warning	Exhaust gas recirculation 2 valve out of calibration.	Section 220 - Engine System - Engine Diagnostics
ECU	3822	14	Stop	Exhaust gas recirculation 2 valve turned off.	Section 220 - Engine System - Engine Diagnostics
ECU	3822	31	Warning	Exhaust gas recirculation 2 valve position error.	Section 220 - Engine System - Engine Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Diagnostic Trouble Codes - HMM - Moisture Sensor

Cont.	SPN	FMI	Priority	Description	Go to
HMM	629	12	Info	Moisture sensor has reset itself due to watchdog timer.	Section 240 - Electrical System - Moisture Sensor Diagnostics
HMM	3509	18	Service Alert	AMS power (cc# 912) voltage too low, less than 8V. Data may be lost when key switch is turned off.	Section 240 - Electrical System - Moisture Sensor Diagnostics
HMM	3510	16	Service Alert	Mass flow sensor supply (cc# 938) voltage too high, greater than 5.35V.	Section 240 - Electrical System - Moisture Sensor Diagnostics
HMM	3510	18	Service Alert	Mass flow sensor supply (cc# 938) voltage too low, less than 4.65V.	Section 240 - Electrical System - Moisture Sensor Diagnostics
HMM	3511	16	Service Alert	Internal analog voltage too high, greater than 2.7V.	Section 240 - Electrical System - Moisture Sensor Diagnostics
HMM	3511	18	Service Alert	Internal analog voltage too low, less than 2.3V.	Section 240 - Electrical System - Moisture Sensor Diagnostics
HMM	201000	02	Info	Grain is too dry to measure.	Section 240 - Electrical System - Moisture Sensor Diagnostics
HMM	522878	16	Service Alert	Over temperature. Moisture sensor will not operate when temperature is greater than 85 °C.	Section 240 - Electrical System - Moisture Sensor Diagnostics
HMM	523105	12	Service Alert	Motor failed to move plunger.	Section 240 - Electrical System - Moisture Sensor Diagnostics
HMM	523105	14	Service Alert	Motor failed to move plunger during initialization.	Section 240 - Electrical System - Moisture Sensor Diagnostics
HMM	523106	11	Service Alert	Relay failure.	Section 240 - Electrical System - Moisture Sensor Diagnostics
HMM	523107	06	Service Alert	Motor shorted.	Section 240 - Electrical System - Moisture Sensor Diagnostics
HMM	523107	07	Service Alert	Plunger initialization failure.	Section 240 - Electrical System - Moisture Sensor Diagnostics
HMM	523313	03	Service Alert	Mass flow sensor signal (cc# 939) is too high.	Section 240 - Electrical System - Moisture Sensor Diagnostics
HMM	523313	04	Service Alert	Mass flow sensor signal (cc# 939) is too low.	Section 240 - Electrical System - Moisture Sensor Diagnostics
HMM	523316	18	Service Alert	RCU 12V switched voltage (cc# 922) too low, less than 10V.	Section 240 - Electrical System - Moisture Sensor Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Diagnostic Trouble Codes - LC1 - Control Unit LC1 and Left Power Module 1

Cont.	SPN	FMI	Priority	Description	Go to
LC1	629	12	Service Alert	Control unit LC1 has reset itself due to watchdog timer.	Section 240 - Electrical System - Control Unit LC1/LPM1 Overall Diagnostics
LC1	639	12	Service Alert	CAN Bus 1 message is not arriving on time or missing. Reserved by JDOS but disabled.	Section 240 - Electrical System - CAN Bus Diagnostics
LC1	639	14	Service Alert	No CAN Bus 1 messages are arriving. Reserved by JDOS but disabled.	Section 240 - Electrical System - CAN Bus Diagnostics
LC1	740	03	Service Alert	Shift lock solenoid (cc# 209) is ON when commanded OFF by control unit LC1.	
LC1	740	05	Service Alert	Shift lock solenoid (cc# 209) is open circuit.	
LC1	740	06	Service Alert	Shift lock solenoid (cc# 209) is OFF when commanded ON by control unit LC1.	
LC1	1231	09	Service Alert	Local CAN Bus message is not arriving on time or missing.	Section 240 - Electrical System - Local Link System - LC1/LPM1 Diagnostics
LC1	1388	03	Service Alert	Rotor drive pressure (cc# 723) out of range high. (STS)	Section 240 - Electrical System - Rotor Pressure Sensor Diagnostics
LC1	1388	04	Service Alert	Rotor drive pressure (cc# 723) out of range low. (STS)	Section 240 - Electrical System - Rotor Pressure Sensor Diagnostics
LC1	1486	00	Calibration	Threshing clearance (cc# 833) calibration voltage is out of range at maximum - greater than 4.5 VDC. (STS)	Section 240 - Electrical System - Threshing Clearance Display Diagnostics
LC1	1486	01	Calibration	Threshing clearance (cc# 833) calibration voltage is out of range at minimum - less than 0.5 VDC. (STS)	Section 240 - Electrical System - Threshing Clearance Display Diagnostics
LC1	1486	03	Service Alert	Threshing clearance sensor (cc# 833) out of range high. (STS)	Section 240 - Electrical System - Threshing Clearance Display Diagnostics
LC1	1486	04	Service Alert	Threshing clearance sensor (cc# 833) out of range low. (STS)	Section 240 - Electrical System - Threshing Clearance Display Diagnostics
LC1	1486	13	Info	Threshing clearance sensor not calibrated.	Section 240 - Electrical System - Threshing Clearance Display Diagnostics
LC1	1489	03	Service Alert	Cleaning fan speed (cc# 606) has no signal. Sensor voltage out of range high.	Section 240 - Electrical System - Cleaning Fan Speed Display Diagnostics
LC1	1489	04	Service Alert	Cleaning fan speed (cc# 606) has no signal. Sensor voltage out of range low.	Section 240 - Electrical System - Cleaning Fan Speed Display Diagnostics
LC1	1493	12	Service Alert	Tailings monitor system failure. Tailings sensors have read the same value for 10 seconds and are not full.	Section 240 - Electrical System - Tailings Monitor Diagnostics
LC1	1496	03	Service Alert	Tailings elevator speed (cc# 616) has no signal. Sensor voltage out of range high.	Section 240 - Electrical System - Tailings Elevator Speed Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
LC1	1496	04	Service Alert	Tailings elevator speed (cc# 616) has no signal. Sensor voltage out of range low.	Section 240 - Electrical System - Tailings Elevator Speed Diagnostics
LC1	1498	03	Stop	Header engage (cc# 401) is ON when commanded OFF by control unit LC1.	Section 240 - Electrical System - Header Engage Diagnostics - Type A
LC1	1498	05	Service Alert	Header engage (cc# 401) is open circuit.	Section 240 - Electrical System - Header Engage Diagnostics - Type A
LC1	1498	06	Service Alert	Header engage (cc# 401) is OFF when commanded ON by control unit LC1.	Section 240 - Electrical System - Header Engage Diagnostics - Type A
LC1	1498	12	Service Alert	Driver for header engage (cc# 401) is faulty.	Section 240 - Electrical System - Header Engage Diagnostics - Type A
LC1	1515	13	Info	Header not calibrated.	Section 240 - Electrical System - Calibration Procedures
LC1	1517	03	Service Alert	Header lift cylinder pressure sensor (cc# 704) is out of range - greater than 4.5 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type D
LC1	1517	04	Service Alert	Header lift cylinder pressure sensor (cc# 704) is out of range - less than 0.5 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type D
LC1	1518	02	Info	Voltage of cc# 431, 433, 434 or 435 changed while operating in automatic header height control mode.	Section 240 - Electrical System - Active Header Height Control Diagnostics
LC1	1519	00	Calibration	Feeder house Raise/Lower Speed Calibration - The feeder house did not raise when the applied current was greater than 1500mA	Section 240 - Electrical System - Header Raise/Lower Diagnostics
LC1	1519	01	Calibration	Feeder House Raise/Lower Speed Calibration - feeder house began raising when the applied current was less than 500mA	Section 240 - Electrical System - Header Raise/Lower Diagnostics
LC1	1519	03	Service Alert	Header raise solenoid (cc# 427) is ON when commanded OFF by control unit LC1.	Section 240 - Electrical System - Header Raise/Lower Diagnostics
LC1	1519	04	Service Alert	Header raise solenoid (cc# 427) is OFF when commanded ON by control unit LC1.	Section 240 - Electrical System - Header Raise/Lower Diagnostics
LC1	1519	05	Service Alert	Header raise solenoid (cc# 427) is open circuit.	Section 240 - Electrical System - Header Raise/Lower Diagnostics
LC1	1519	06	Service Alert	Header raise solenoid (cc# 427) is over current.	Section 240 - Electrical System - Header Raise/Lower Diagnostics
LC1	1519	12	Service Alert	Driver for header raise solenoid (cc# 427) is Faulty.	Section 240 - Electrical System - Header Raise/Lower Diagnostics
LC1	1519	13	Service Alert	Feeder house raise/lower speed calibration has not been performed	Section 240 - Electrical System - Calibration Procedures
LC1	1520	00	Calibration	Feeder house Raise/Lower Speed Calibration - The feeder house did not lower when the applied current was greater than 1500mA	Section 240 - Electrical System - Header Raise/Lower Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
LC1	1520	01	Calibration	Feeder house Raise/Lower Speed Calibration - The feeder house began lowering when the applied current was less than 500mA	Section 240 - Electrical System - Header Raise/Lower Diagnostics
LC1	1520	03	Service Alert	Header lower solenoid (cc# 407) is ON when commanded OFF by control unit LC1.	Section 240 - Electrical System - Header Raise/Lower Diagnostics
LC1	1520	04	Service Alert	Header lower solenoid (cc# 407) is OFF when commanded ON by control unit LC1.	Section 240 - Electrical System - Header Raise/Lower Diagnostics
LC1	1520	05	Service Alert	Header lower solenoid (cc# 407) is open circuit.	Section 240 - Electrical System - Header Raise/Lower Diagnostics
LC1	1520	06	Service Alert	Header lower solenoid (cc# 407) is over current.	Section 240 - Electrical System - Header Raise/Lower Diagnostics
LC1	1520	12	Service Alert	Driver for header lower solenoid (cc# 407) is faulty	Section 240 - Electrical System - Header Raise/Lower Diagnostics
LC1	1521	03	Service Alert	Header tilt left solenoid (cc# 408) is ON when commanded OFF by control unit LC1.	Section 240 - Electrical System - Lateral Tilt - Manual Diagnostics
LC1	1521	05	Service Alert	Header tilt left solenoid (cc# 408) is open circuit.	Section 240 - Electrical System - Lateral Tilt - Manual Diagnostics
LC1	1521	06	Service Alert	Header tilt left solenoid (cc# 408) is OFF when commanded ON by control unit LC1.	Section 240 - Electrical System - Lateral Tilt - Manual Diagnostics
LC1	1521	12	Service Alert	Driver for header tilt left solenoid (cc# 408) is faulty.	Section 240 - Electrical System - Lateral Tilt - Manual Diagnostics
LC1	1522	03	Service Alert	Header tilt right solenoid (cc# 409) is ON when commanded OFF by control unit LC1.	Section 240 - Electrical System - Lateral Tilt - Manual Diagnostics
LC1	1522	05	Service Alert	Header tilt right solenoid (cc# 409) is open circuit.	Section 240 - Electrical System - Lateral Tilt - Manual Diagnostics
LC1	1522	06	Service Alert	Header tilt right solenoid (cc# 409) is OFF when commanded ON by control unit LC1.	Section 240 - Electrical System - Lateral Tilt - Manual Diagnostics
LC1	1522	12	Service Alert	Driver for header tilt right solenoid (cc# 409) is faulty.	Section 240 - Electrical System - Lateral Tilt - Manual Diagnostics
LC1	1524	03	Service Alert	Reel extend solenoid (cc# 418) is ON when commanded OFF by control unit LC1.	Section 240 - Electrical System - Reel Fore/Aft Adjust Diagnostics Section 240 - Electrical System - Draper Cutterbar Tilt Adjust Diagnostics Section 240 - Electrical System - Deck Plate Adjust Diagnostics
LC1	1524	05	Service Alert	Reel extend solenoid (cc# 418) is open circuit.	Section 240 - Electrical System - Reel Fore/Aft Adjust Diagnostics Section 240 - Electrical System - Draper Cutterbar Tilt Adjust Diagnostics Section 240 - Electrical System - Deck Plate Adjust Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
LC1	1524	06	Service Alert	Reel extend solenoid (cc# 418) is OFF when commanded ON by control unit LC1.	Section 240 - Electrical System - Reel Fore/Aft Adjust Diagnostics Section 240 - Electrical System - Draper Cutterbar Tilt Adjust Diagnostics Section 240 - Electrical System - Deck Plate Adjust Diagnostics
LC1	1524	12	Service Alert	Driver for reel extend solenoid (cc# 418) is faulty.	Section 240 - Electrical System - Reel Fore/Aft Adjust Diagnostics Section 240 - Electrical System - Draper Cutterbar Tilt Adjust Diagnostics Section 240 - Electrical System - Deck Plate Adjust Diagnostics
LC1	1525	03	Service Alert	Reel retract solenoid (cc# 419) is ON when commanded OFF by control unit LC1.	Section 240 - Electrical System - Reel Fore/Aft Adjust Diagnostics Section 240 - Electrical System - Draper Cutterbar Tilt Adjust Diagnostics Section 240 - Electrical System - Deck Plate Adjust Diagnostics
LC1	1525	05	Service Alert	Reel retract solenoid (cc# 419) is open circuit.	Section 240 - Electrical System - Reel Fore/Aft Adjust Diagnostics Section 240 - Electrical System - Draper Cutterbar Tilt Adjust Diagnostics Section 240 - Electrical System - Deck Plate Adjust Diagnostics
LC1	1525	06	Service Alert	Reel retract solenoid (cc# 419) is OFF when commanded ON by control unit LC1.	Section 240 - Electrical System - Reel Fore/Aft Adjust Diagnostics Section 240 - Electrical System - Draper Cutterbar Tilt Adjust Diagnostics Section 240 - Electrical System - Deck Plate Adjust Diagnostics
LC1	1525	12	Service Alert	Driver for reel retract solenoid (cc# 419) is faulty.	Section 240 - Electrical System - Reel Fore/Aft Adjust Diagnostics Section 240 - Electrical System - Draper Cutterbar Tilt Adjust Diagnostics Section 240 - Electrical System - Deck Plate Adjust Diagnostics
LC1	1526	03	Service Alert	Reel raise solenoid (cc# 416) is ON when commanded OFF by control unit LC1.	Section 240 - Electrical System - Reel Raise/Lower Diagnostics Feeder House Speed Adjust Diagnostics - Type A Section 240 - Electrical Systems - Cutterbar Pressure Adjust Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
LC1	1526	05	Service Alert	Reel raise solenoid (cc# 416) is open circuit.	Section 240 - Electrical System - Reel Raise/Lower Diagnostics Feeder House Speed Adjust Diagnostics - Type A Section 240 - Electrical Systems - Cutterbar Pressure Adjust Diagnostics
LC1	1526	06	Service Alert	Reel raise solenoid (cc# 416) is OFF when commanded ON by control unit LC1.	Section 240 - Electrical System - Reel Raise/Lower Diagnostics Feeder House Speed Adjust Diagnostics - Type A Section 240 - Electrical Systems - Cutterbar Pressure Adjust Diagnostics
LC1	1526	12	Service Alert	Driver for reel raise solenoid (cc# 416) is faulty.	Section 240 - Electrical System - Reel Raise/Lower Diagnostics Feeder House Speed Adjust Diagnostics - Type A Section 240 - Electrical Systems - Cutterbar Pressure Adjust Diagnostics
LC1	1527	03	Service Alert	Reel lower solenoid (cc# 415) is ON when commanded OFF by control unit LC1.	Section 240 - Electrical System - Reel Raise/Lower Diagnostics Section 240 - Electrical Systems - Cutterbar Pressure Adjust Diagnostics
LC1	1527	05	Service Alert	Reel lower solenoid (cc# 415) is open circuit.	Section 240 - Electrical System - Reel Raise/Lower Diagnostics Section 240 - Electrical Systems - Cutterbar Pressure Adjust Diagnostics
LC1	1527	06	Service Alert	Reel lower solenoid (cc# 415) is OFF when commanded ON by control unit LC1.	Section 240 - Electrical System - Reel Raise/Lower Diagnostics Section 240 - Electrical Systems - Cutterbar Pressure Adjust Diagnostics
LC1	1527	12	Service Alert	Driver for reel lower solenoid (cc# 415) is faulty.	Section 240 - Electrical System - Reel Raise/Lower Diagnostics Section 240 - Electrical Systems - Cutterbar Pressure Adjust Diagnostics
LC1	1529	03	Service Alert	Accumulator shutoff solenoid (cc# 484) is ON when commanded OFF by control unit LC1.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type D
LC1	1529	05	Service Alert	Accumulator shutoff solenoid (cc# 484) is open circuit.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type D
LC1	1529	06	Service Alert	Accumulator shutoff solenoid (cc# 484) is OFF when commanded ON by control unit LC1.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type D

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
LC1	1529	12	Service Alert	Driver for accumulator shutoff solenoid (cc# 484) is faulty.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type D
LC1	1533	03	Service Alert	Feeder house position sensor (cc# 814) is out of range - greater than 4.5 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type A
LC1	1533	04	Service Alert	Feeder house position sensor (cc# 814) is out of range - less than 0.5 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type A
LC1	1534	00	Calibration	Header Calibration - left height sensor (cc# 816) voltage is too high - greater than 4.75 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type B or Type C
LC1	1534	01	Calibration	Header Calibration - left height sensor (cc# 816) voltage is too low - less than 0.25 VDC. (Sensor is expected since right header height sensor was detected).	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type B or Type C
LC1	1534	03	Service Alert	Left header height sensor (cc# 816) is out of range - greater than 4.5 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type B or Type C Section 240 - Electrical System - Lateral Tilt - Automatic Diagnostics
LC1	1534	04	Service Alert	Left header height sensor (cc# 816) is out of range - less than 0.5 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type B or Type C Section 240 - Electrical System - Lateral Tilt - Automatic Diagnostics
LC1	1534	07	Calibration	Header Calibration - left height sensor (cc# 816) voltage range is less than 2.00 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type B or Type C
LC1	1534	10	Calibration	Header Calibration - center height sensor (cc# 817) raised voltage is less than lowered voltage.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type B or Type C
LC1	1535	00	Calibration	Header Calibration - right height sensor (cc# 818) voltage is too high - greater than 4.75 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type B or Type C
LC1	1535	01	Calibration	Header Calibration - right height sensor (cc# 818) voltage is too low - less than 0.25 VDC. (Sensor is expected since left header height sensor was detected).	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type B or Type C
LC1	1535	03	Service Alert	Right header height sensor (cc# 818) is out of range - greater than 4.5 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type B or Type C Section 240 - Electrical System - Lateral Tilt - Automatic Diagnostics
LC1	1535	04	Service Alert	Right header height sensor (cc# 818) is out of range - less than 0.5 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type B or Type C Section 240 - Electrical System - Lateral Tilt - Automatic Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
LC1	1535	07	Calibration	Header Calibration - right height sensor (cc# 818) voltage range is less than 2.00 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type B or Type C
LC1	1535	10	Calibration	Header Calibration - right height sensor (cc# 818) raised voltage is less than lowered voltage.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type B or Type C
LC1	1536	00	Calibration	Header Calibration - center height sensor (cc# 817) voltage is too high - greater than 4.75 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type B or Type C Section 240 - Electrical System - Active Header Height Control Diagnostics - Type E
LC1	1536	03	Service Alert	Center header height sensor (cc# 817) is out of range - greater than 4.5 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type B or Type C Section 240 - Electrical System - Active Header Height Control Diagnostics - Type E
LC1	1536	04	Service Alert	Center header height sensor (cc# 817) is out of range - less than 0.5 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type B or Type C Section 240 - Electrical System - Active Header Height Control Diagnostics - Type E
LC1	1536	07	Calibration	Header Calibration - center height sensor (cc# 817) voltage range is less than 2.00 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type B or Type C
LC1	1536	10	Calibration	Header Calibration - center height sensor (cc# 817) raise voltage is less than lowered voltage.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type B or Type C
LC1	1554	03	Service Alert	Grain elevator speed (cc# 607) has no signal. Sensor voltage out of range - high. (STS)	Section 240 - Electrical System - Clean Grain Elevator Speed Diagnostics
LC1	1554	04	Service Alert	Grain elevator speed (cc# 607) has no signal. Sensor voltage out of range - low. (STS)	Section 240 - Electrical System - Clean Grain Elevator Speed Diagnostics
LC1	1867	03	Service Alert	LPC1 micro power (cc# 102) is ON when commanded OFF by control unit LC1.	Section 240 - Electrical System - Local Link System - LC1/LPM1 Diagnostics
LC1	1867	06	Service Alert	LPC1 micro power (cc# 102) is OFF when commanded ON by control unit LC1.	Section 240 - Electrical System - Local Link System - LC1/LPM1 Diagnostics
LC1	2354	03	Service Alert	Left stubble lights (cc# 564) is ON when commanded OFF by Left power module 1.	Section 240 - Electrical System - Lighting System - Work Diagnostics
LC1	2354	05	Service Alert	Left stubble lights (cc# 564) is open circuit.	Section 240 - Electrical System - Lighting System - Work Diagnostics
LC1	2354	06	Service Alert	Left stubble lights (cc# 564) is OFF when commanded ON by Left power module 1.	Section 240 - Electrical System - Lighting System - Work Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
LC1	2378	03	Service Alert	Left front marker light (cc# 556) is ON when commanded OFF by control unit LC1.	Section 240 - Electrical System - Lighting System - Marker Diagnostics
LC1	2378	05	Service Alert	Left front marker light (cc# 556) is open circuit.	Section 240 - Electrical System - Lighting System - Marker Diagnostics
LC1	2378	06	Service Alert	The Left front marker light (cc# 556) is OFF when commanded ON.	Section 240 - Electrical System - Lighting System - Marker Diagnostics
LC1	2378	12	Service Alert	Driver for left front marker light (cc# 556) is faulty.	Section 240 - Electrical System - Lighting System - Marker Diagnostics
LC1	3004	03	Service Alert	Draper speed increase (cc# 455) and/or draper speed decrease (cc# 456) is ON when commanded OFF by control unit LC1.	Section 240 - Electrical System - Draper Speed Adjust Diagnostics
LC1	3004	05	Service Alert	Draper speed increase (cc# 455) and/or draper speed decrease (cc# 456) is open circuit.	Section 240 - Electrical System - Draper Speed Adjust Diagnostics
LC1	3004	06	Service Alert	Draper speed increase (cc# 455) is OFF when commanded ON by control unit LC1.	Section 240 - Electrical System - Draper Speed Adjust Diagnostics
LC1	3005	06	Service Alert	Draper speed decrease (cc# 456) is OFF when commanded ON by control unit LC1.	Section 240 - Electrical System - Draper Speed Adjust Diagnostics
LC1	3010	03	Service Alert	Threshing speed solenoid (cc# 329) is ON when commanded OFF by control unit LC1.	Section 240 - Electrical System - Threshing Speed Adjust Diagnostics
LC1	3010	05	Service Alert	Threshing speed solenoid (cc# 329) is open circuit.	Section 240 - Electrical System - Threshing Speed Adjust Diagnostics
LC1	3010	06	Service Alert	Threshing speed solenoid (cc# 329) is OFF when commanded ON by control unit LC1.	Section 240 - Electrical System - Threshing Speed Adjust Diagnostics
LC1	3010	12	Service Alert	Driver for threshing speed solenoid (cc# 329) is faulty.	Section 240 - Electrical System - Threshing Speed Adjust Diagnostics
LC1	3012	03	Service Alert	Fan speed increase (cc# 325) and/or fan speed decrease (cc# 326) is ON when commanded OFF by control unit LC1. (CWS/CTS)	Section 240 - Electrical System - Cleaning Fan Speed Adjust Diagnostics
LC1	3012	05	Service Alert	Fan speed decrease (cc# 326) and/or fan speed increase (cc# 325) is open circuit. (CWS/CTS)	Section 240 - Electrical System - Cleaning Fan Speed Adjust Diagnostics
LC1	3012	06	Service Alert	Fan speed increase (cc# 325) is OFF when commanded ON by control unit LC1. (CWS/CTS)	Section 240 - Electrical System - Cleaning Fan Speed Adjust Diagnostics
LC1	3013	06	Service Alert	Fan speed decrease (cc# 326) is OFF when commanded ON by control unit LC1. (CWS/CTS)	Section 240 - Electrical System - Cleaning Fan Speed Adjust Diagnostics
LC1	3014	03	Service Alert	Threshing clearance increase (cc# 323) and/or Threshing clearance decrease (cc# 324) is ON when commanded OFF by control unit LC1. (STS)	Section 240 - Electrical System - Threshing Clearance Adjust Diagnostics
LC1	3014	05	Service Alert	Threshing clearance decrease (cc# 324) and/or threshing clearance increase (cc# 323) is open circuit. (STS)	Section 240 - Electrical System - Threshing Clearance Adjust Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
LC1	3014	06	Service Alert	Threshing clearance increase (cc# 323) is OFF when commanded ON by control unit LC1. (STS)	Section 240 - Electrical System - Threshing Clearance Adjust Diagnostics
LC1	3015	06	Service Alert	Threshing clearance decrease (cc# 324) is OFF when commanded ON by control unit LC1. (STS)	Section 240 - Electrical System - Threshing Clearance Adjust Diagnostics
LC1	3102	03	Service Alert	Auger swing extend solenoid (cc# 317) is ON when commanded OFF by control unit LC1.	Section 240 - Electrical System - Unloading Auger Swing Diagnostics
LC1	3102	05	Service Alert	Auger swing extend solenoid (cc# 317) is open circuit.	Section 240 - Electrical System - Unloading Auger Swing Diagnostics
LC1	3102	06	Service Alert	Auger swing extend solenoid (cc# 317) is OFF when commanded ON by control unit LC1.	Section 240 - Electrical System - Unloading Auger Swing Diagnostics
LC1	3102	12	Service Alert	Driver for auger swing extend solenoid (cc# 317) is faulty.	Section 240 - Electrical System - Unloading Auger Swing Diagnostics
LC1	3103	03	Service Alert	Auger swing retract solenoid (cc# 316) is ON when commanded OFF by control unit LC1.	Section 240 - Electrical System - Unloading Auger Swing Diagnostics
LC1	3103	05	Service Alert	Auger swing retract solenoid (cc# 316) is open circuit.	Section 240 - Electrical System - Unloading Auger Swing Diagnostics
LC1	3103	06	Service Alert	Auger swing retract solenoid (cc# 316) is OFF when commanded ON by control unit LC1.	Section 240 - Electrical System - Unloading Auger Swing Diagnostics
LC1	3103	12	Service Alert	Driver for auger swing retract solenoid (cc# 316) is faulty.	Section 240 - Electrical System - Unloading Auger Swing Diagnostics
LC1	3120	03	Service Alert	Unloading auger fold (cc# 398) and/or unloading auger unfold (cc# 399) is ON when commanded OFF.	Section 240 - Electrical System - Unloading Auger Fold Diagnostics
LC1	3120	05	Service Alert	Unloading auger fold (cc# 398) and/or unloading auger unfold (cc# 399) is open circuit.	Section 240 - Electrical System - Unloading Auger Fold Diagnostics
LC1	3120	06	Service Alert	Unloading auger fold (cc# 398) is OFF when commanded ON.	Section 240 - Electrical System - Unloading Auger Fold Diagnostics
LC1	3121	06	Service Alert	Unloading auger unfold (cc# 399) is OFF when commanded ON.	Section 240 - Electrical System - Unloading Auger Fold Diagnostics
LC1	3333	00	Calibration	Feeder house Height Range Calibration - The maximum feeder house position sensor (cc# 814) voltage is too high - greater than 4.75 VDC	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type A
LC1	3333	01	Calibration	Feeder house Height Range Calibration - The minimum feeder house position sensor (cc# 814) voltage is too low - less than 0.25 VDC	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type A
LC1	3333	13	Service Alert	Feeder house height range calibration has not been performed	Section 240 - Electrical System - Calibration Procedures
LC1	3333	15	Calibration	Feeder house Raise/Lower Speed Calibration - The feeder house raised too far during calibration and might have hit the end stop if the calibration continued. Please repeat the calibration starting with the feeder house lower to the ground.	Section 240 - Electrical System - Header Raise/Lower Diagnostics
LC1	3333	16	Calibration	Feeder house Height Range Calibration - The minimum feeder house position sensor (cc# 814) voltage is too high - greater than 3.00 VDC	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type A

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
LC1	3333	17	Calibration	Feeder house Raise/Lower Speed Calibration - The feeder house lowered too far during calibration and might have hit the end stop if the calibration continued. Please repeat the calibration starting with the feeder house lower to the ground	Section 240 - Electrical System - Header Raise/Lower Diagnostics
LC1	3333	18	Calibration	Feeder house height range calibration - The maximum feeder house position sensor (cc# 814) voltage is too low - less than 3.00 VDC	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type A
LC1	3509	03	Service Alert	LC1 sensor supply 1 (cc# 253) is too high - greater than 5.50 VDC	Section 240 - Electrical System - Control Unit LC1/LPM1 Overall Diagnostics
LC1	3509	04	Service Alert	LC1 sensor supply 1 (cc# 253) is too low - less than 4.50 VDC	Section 240 - Electrical System - Control Unit LC1/LPM1 Overall Diagnostics
LC1	3510	03	Service Alert	LC1 sensor supply 2 (cc# 267) is too high - greater than 8.50 VDC	Section 240 - Electrical System - Control Unit LC1/LPM1 Overall Diagnostics
LC1	3510	04	Service Alert	LC1 sensor supply 2 (cc# 267) is too low - less than 7.50 VDC	Section 240 - Electrical System - Control Unit LC1/LPM1 Overall Diagnostics
LC1	3597	04	Service Alert	LC1 PTC power (cc# 582) output too low	Section 240 - Electrical System - Control Unit LC1/LPM1 Overall Diagnostics
LC1	522312	03	Service Alert	Windshield washer pump (cc# 924) is ON when commanded OFF by control unit LC1.	Section 240 - Electrical System - Windshield Washer / Wiper Diagnostics
LC1	522312	05	Service Alert	Windshield washer pump (cc# 924) is open circuit.	Section 240 - Electrical System - Windshield Washer / Wiper Diagnostics
LC1	522312	06	Service Alert	Windshield washer pump (cc# 924) is OFF when commanded ON by control unit LC1.	Section 240 - Electrical System - Windshield Washer / Wiper Diagnostics
LC1	522312	12	Service Alert	Driver for windshield washer pump (cc# 924) is faulty.	Section 240 - Electrical System - Windshield Washer / Wiper Diagnostics
LC1	522779	03	Service Alert	Cutterbar pressure sensor (cc# 813) is out of range - greater than 4.5 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type E Section 240 - Electrical Systems - Cutterbar Pressure Adjust Diagnostics
LC1	522779	04	Service Alert	Cutterbar pressure sensor (cc# 813) is out of range - less than 0.5 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type E Section 240 - Electrical Systems - Cutterbar Pressure Adjust Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
LC1	522779	07	Calibration	Header Calibration - cutterbar pressure (cc# 813) voltage is out of range high or low. Calibration will not proceed.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type E
LC1	523132	03	Service Alert	Reel diverter solenoid (cc# 417) is ON when commanded OFF by control unit LC1.	Section 240 - Electrical Systems - Cutterbar Pressure Adjust Diagnostics Section 240 - Electrical Systems - Reel Raise/Lower Diagnostics - Type B
LC1	523132	05	Service Alert	Reel diverter solenoid (cc# 417) is open circuit.	Section 240 - Electrical Systems - Cutterbar Pressure Adjust Diagnostics Section 240 - Electrical Systems - Reel Raise/Lower Diagnostics - Type B
LC1	523132	06	Service Alert	Reel diverter solenoid (cc# 417) is OFF when commanded ON by control unit LC1.	Section 240 - Electrical Systems - Cutterbar Pressure Adjust Diagnostics Section 240 - Electrical Systems - Reel Raise/Lower Diagnostics - Type B
LC1	523132	12	Service Alert	Driver for reel diverter solenoid (cc# 417) is faulty.	Section 240 - Electrical Systems - Cutterbar Pressure Adjust Diagnostics Section 240 - Electrical Systems - Reel Raise/Lower Diagnostics - Type B
LC1	523319	03	Service Alert	LC1 12V switched power (cc# 802) is ON when commanded OFF by control unit LC1.	Section 240 - Electrical System - Control Unit LC1/LPM1 Overall Diagnostics
LC1	523319	06	Service Alert	LC1 12V switched power (cc# 802) is OFF when commanded ON by control unit LC1.	Section 240 - Electrical System - Control Unit LC1/LPM1 Overall Diagnostics
LC1	523495	06	Service Alert	Chopper vane angle 1 right (cc# 333) is OFF when commanded ON by control unit LC1. (CWS/CTS)	Section 240 - Electrical System - Chopper Vane Angle Diagnostics
LC1	523547	03	Service Alert	Chopper vane angle 1 left (cc# 334) and/or chopper vane angle 1 right (cc# 333) is ON when commanded OFF by control unit LC1. (CWS/CTS)	Section 240 - Electrical System - Chopper Vane Angle Diagnostics
LC1	523547	05	Service Alert	Chopper vane angle 1 left (cc# 334) and/or chopper vane angle 1 right (cc# 333) is open circuit. (CWS/CTS)	Section 240 - Electrical System - Chopper Vane Angle Diagnostics
LC1	523547	06	Service Alert	Chopper vane angle 1 left (cc# 334) is OFF when commanded ON by control unit LC1. (CWS/CTS)	Section 240 - Electrical System - Chopper Vane Angle Diagnostics
LC1	523554	00	Calibration	Deck Plates Calibration - With deck plates fully open, deck plates sensor (cc# 834) voltage is too high - greater than 4.50 VDC.	Section 240 - Electrical System - Deck Plate Display Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
LC1	523554	01	Calibration	Deck Plates Calibration - With deck plates fully closed, deck plates sensor (cc# 834) voltage is too low - less than 0.50 VDC.	Section 240 - Electrical System - Deck Plate Display Diagnostics
LC1	523554	03	Service Alert	Reel/plate position (cc# 834) voltage is out of range - greater than 4.5 VDC.	Section 240 - Electrical System - Reel Fore/Aft Adjust Diagnostics or Deck Plate Display Diagnostics
LC1	523554	04	Service Alert	Reel/plate position (cc# 834) voltage is out of range - less than 0.5 VDC.	Section 240 - Electrical System - Reel Fore/Aft Adjust Diagnostics or Deck Plate Display Diagnostics
LC1	523554	07	Service Alert	Desired reel/plate position was not reached within 15 seconds.	Section 240 - Electrical System - Reel Resume - Fore/Aft Diagnostics or Deck Plate Resume Diagnostics
LC1	523554	13	Service Alert	Deck plates are detected, but the deck plate calibration has not been performed	Section 240 - Electrical System - Deck Plate Display Diagnostics
LC1	523554	16	Calibration	Deck Plates Calibration - With deck plates fully closed, deck plates sensor (cc# 834) voltage is too high - greater than 2.00 VDC.	Section 240 - Electrical System - Deck Plate Display Diagnostics
LC1	523554	18	Calibration	Deck Plates Calibration - With deck plates fully open, deck plates sensor (cc# 834) voltage is too low - less than 3.00 VDC.	Section 240 - Electrical System - Deck Plate Display Diagnostics
LC1	523556	03	Service Alert	Reel fore/aft diverter (cc# 464) is ON when commanded OFF by control unit LC1.	Section 240 - Electrical System - Reel Fore/Aft Adjust Diagnostics
LC1	523556	05	Service Alert	Reel fore/aft diverter (cc# 464) is open circuit.	Section 240 - Electrical System - Reel Fore/Aft Adjust Diagnostics
LC1	523556	06	Service Alert	Reel fore/aft diverter (cc# 464) is OFF when commanded ON by control unit LC1.	Section 240 - Electrical System - Reel Fore/Aft Adjust Diagnostics
LC1	523556	12	Service Alert	Driver for reel fore/aft diverter (cc# 464) is faulty.	Section 240 - Electrical System - Reel Fore/Aft Adjust Diagnostics
LC1	523557	05	Service Alert	Header tilt diverter (cc# 803) is open circuit.	Section 240 - Electrical System - Reel Fore/Aft Adjust Diagnostics Section 240 - Electrical System - Draper Cutterbar Tilt Adjust Diagnostics
LC1	523557	06	Service Alert	Header tilt diverter (cc# 803) is OFF when commanded ON by control unit LC1.	Section 240 - Electrical System - Reel Fore/Aft Adjust Diagnostics Section 240 - Electrical System - Draper Cutterbar Tilt Adjust Diagnostics
LC1	523557	12	Service Alert	Driver for header tilt diverter (cc# 803) is faulty.	Section 240 - Electrical System - Reel Fore/Aft Adjust Diagnostics Section 240 - Electrical System - Draper Cutterbar Tilt Adjust Diagnostics
LC1	523558	03	Service Alert	Feed accelerator speed (cc# 614) has no signal. Sensor voltage is out of range high. (STS)	Section 240 - Electrical System - Feed Accelerator Speed Sensor Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
LC1	523558	04	Service Alert	Feed accelerator speed (cc# 614) has no signal. Sensor voltage is out of range high. (STS)	Section 240 - Electrical System - Feed Accelerator Speed Sensor Diagnostics
LC1	523559	03	Service Alert	Left row finder light (cc# 524) is ON when commanded OFF by left power module 1	Section 240 - Electrical System - Lighting System - Side Finder Diagnostics
LC1	523559	05	Service Alert	Left row finder light (cc# 524) is open circuit.	Section 240 - Electrical System - Lighting System - Side Finder Diagnostics
LC1	523559	06	Service Alert	Left row finder light (cc# 524) is OFF when commanded ON by left power module 1	Section 240 - Electrical System - Lighting System - Side Finder Diagnostics
LC1	523560	03	Service Alert	Grain tank light (cc# 526) is ON when commanded OFF by left power module 1	Section 240 - Electrical System - Lighting System - Field Diagnostics
LC1	523560	05	Service Alert	Grain tank light (cc# 526) is open circuit.	Section 240 - Electrical System - Lighting System - Field Diagnostics
LC1	523560	06	Service Alert	Grain tank light (cc# 526) is OFF when commanded ON by left power module 1	Section 240 - Electrical System - Lighting System - Field Diagnostics
LC1	523562	03	Service Alert	Conveyor auger speed (cc# 608) has no signal. Sensor voltage out of range high.	Section 240 - Electrical System - Conveyor Auger Speed Diagnostics
LC1	523562	04	Service Alert	Conveyor auger speed (cc# 608) has no signal. Sensor voltage out of range low.	Section 240 - Electrical System - Conveyor Auger Speed Diagnostics
LC1	523566	03	Service Alert	Reel reverse solenoid (cc# 443) is ON when commanded OFF by control unit LC1.	Section 240 - Electrical System - Reel Reverse Diagnostics
LC1	523566	05	Service Alert	Reel reverse solenoid (cc# 443) is open circuit.	Section 240 - Electrical System - Reel Reverse Diagnostics
LC1	523566	06	Service Alert	Reel reverse solenoid (cc# 443) is OFF when commanded ON by control unit LC1.	Section 240 - Electrical System - Reel Reverse Diagnostics
LC1	523566	12	Service Alert	Driver for reel reverse solenoid (cc# 443) is faulty.	Section 240 - Electrical System - Reel Reverse Diagnostics
LC1	523567	00	Calibration	Folding auger position (cc# 835) calibration voltage when straight is out of range high - greater than 4.50 VDC.	Section 240 - Electrical System - Unloading Auger Fold Diagnostics
LC1	523567	01	Calibration	Folding auger position (cc# 835) calibration voltage when folded is out of range low - less than 0.50 VDC.	Section 240 - Electrical System - Unloading Auger Fold Diagnostics
LC1	523567	03	Service Alert	Folding auger position (cc# 835) is too high - greater than 4.50 VDC.	Section 240 - Electrical System - Unloading Auger Fold Diagnostics
LC1	523567	04	Service Alert	Folding auger position (cc# 835) is too low - less than 0.50 VDC.	Section 240 - Electrical System - Unloading Auger Fold Diagnostics
LC1	523567	12	Service Alert	Folding unloading auger is stalled.	Section 240 - Electrical System - Unloading Auger Fold Diagnostics
LC1	523567	13	Info	Folding unloading auger position sensor is not calibrated.	Section 240 - Electrical System - Unloading Auger Fold Diagnostics
LC1	523567	16	Calibration	Folding auger position (cc# 835) calibration voltage when folded is out of range high - greater than 2.50 VDC.	Section 240 - Electrical System - Unloading Auger Fold Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
LC1	523567	18	Service Alert	Folding auger position (cc# 835) calibration voltage when straight is out of range low - less than 2.50 VDC.	Section 240 - Electrical System - Unloading Auger Fold Diagnostics
LC1	523576	03	Service Alert	Feeder house reverse solenoid (cc# 411) is ON when commanded OFF by control unit LC1.	Section 240 - Electrical System - Feeder House Reverse Diagnostics
LC1	523576	05	Service Alert	Feeder house reverse solenoid (cc# 411) is open circuit.	Section 240 - Electrical System - Feeder House Reverse Diagnostics
LC1	523576	06	Service Alert	Feeder house reverse solenoid (cc# 411) is OFF when commanded ON by control unit LC1.	Section 240 - Electrical System - Feeder House Reverse Diagnostics
LC1	523576	12	Service Alert	Driver for feeder house reverse solenoid (cc# 411) is faulty.	Section 240 - Electrical System - Feeder House Reverse Diagnostics
LC1	523582	03	Service Alert	Overshot beater speed (cc# 626) has no signal. Sensor voltage is out of range low. (TTS)	
LC1	523582	04	Service Alert	Overshot beater speed (cc# 626) has no signal. Sensor voltage is out of range high. (TTS)	
LC1	523583	03	Service Alert	Cutterbar diverter solenoid (cc# 457) is ON when commanded OFF by control unit LC1.	Section 240 - Electrical Systems - Cutterbar Pressure Adjust Diagnostics Section 240 - Electrical Systems - Reel Raise/Lower Diagnostics - Type B
LC1	523583	05	Service Alert	Cutterbar diverter solenoid (cc# 457) is open circuit.	Section 240 - Electrical Systems - Cutterbar Pressure Adjust Diagnostics Section 240 - Electrical Systems - Reel Raise/Lower Diagnostics - Type B
LC1	523583	06	Service Alert	Cutterbar diverter solenoid (cc# 457) is OFF when commanded ON by control unit LC1.	Section 240 - Electrical Systems - Cutterbar Pressure Adjust Diagnostics Section 240 - Electrical Systems - Reel Raise/Lower Diagnostics - Type B
LC1	523583	07	Service Alert	Desired cutterbar pressure was not reached within 30 seconds.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type E
LC1	523583	12	Service Alert	Driver for cutterbar diverter solenoid (cc# 457) is faulty.	Section 240 - Electrical Systems - Cutterbar Pressure Adjust Diagnostics Section 240 - Electrical Systems - Reel Raise/Lower Diagnostics - Type B
LC1	523584	03	Service Alert	Beater speed (cc# 628) has no signal. Sensor voltage is out of range low. (CTS/TTS)	
LC1	523584	04	Service Alert	Beater speed (cc# 628) has no signal. Sensor voltage is out of range high. (CTS/TTS)	
LC1	523585	03	Service Alert	Reel speed adjust solenoid (cc# 425) is ON when commanded OFF by control unit LC1.	Section 240 - Electrical System - Reel/Belt Speed - Manual Adjust Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
LC1	523585	04	Service Alert	Reel speed adjust solenoid (cc# 425) is OFF when commanded ON by control unit LC1.	Section 240 - Electrical System - Reel/Belt Speed - Manual Adjust Diagnostics
LC1	523585	05	Service Alert	Reel speed adjust solenoid (cc# 425) is open circuit.	Section 240 - Electrical System - Reel/Belt Speed - Manual Adjust Diagnostics
LC1	523585	06	Service Alert	Reel speed adjust solenoid (cc# 425) is over current.	Section 240 - Electrical System - Reel/Belt Speed - Manual Adjust Diagnostics
LC1	523585	12	Service Alert	Driver for reel speed adjust solenoid (cc# 425) is faulty.	Section 240 - Electrical System - Reel/Belt Speed - Manual Adjust Diagnostics
LC1	523586	03	Service Alert	Reel height (cc# 837) voltage is out of range - greater than 4.5 VDC.	Section 240 - Electrical System - Reel Resume - Raise/Lower Diagnostics
LC1	523586	04	Service Alert	Reel height (cc# 837) voltage is out of range - less than 0.5 VDC.	Section 240 - Electrical System - Reel Resume - Raise/Lower Diagnostics
LC1	523586	07	Service Alert	Desired reel height was not reached within 15 seconds.	Section 240 - Electrical System - Reel Resume - Raise/Lower Diagnostics
LC1	523587	03	Service Alert	Unload solenoid (cc# 458) is ON when commanded OFF by control unit LC1.	Section 240 - Electrical System - Unloading Auger Swing Diagnostics
LC1	523587	05	Service Alert	Unload solenoid (cc# 458) is open circuit.	Section 240 - Electrical System - Unloading Auger Swing Diagnostics
LC1	523587	06	Service Alert	Unload solenoid (cc# 458) is OFF when commanded ON by control unit LC1.	Section 240 - Electrical System - Unloading Auger Swing Diagnostics
LC1	523587	12	Service Alert	Driver for unload solenoid (cc# 458) is faulty.	Section 240 - Electrical System - Unloading Auger Swing Diagnostics
LC1	523588	03	Service Alert	Beater speed (cc# 626) has no signal. Sensor voltage is out of range low. (TTS)	Section 240 - Electrical System - Beater Speed Sensor Diagnostics
LC1	523588	04	Service Alert	Beater speed (cc# 626) has no signal. Sensor voltage is out of range high. (TTS)	Section 240 - Electrical System - Beater Speed Sensor Diagnostics
LC1	523589	03	Service Alert	Unloading auger light (cc# 525) is ON when commanded OFF by control unit LC1.	Section 240 - Electrical System - Lighting System - Auger Diagnostics
LC1	523589	05	Service Alert	Unloading auger light (cc# 525) is open circuit.	Section 240 - Electrical System - Lighting System - Unloading Auger Diagnostics
LC1	523589	06	Service Alert	Unloading auger light (cc# 525) is OFF when commanded ON by control unit LC1.	Section 240 - Electrical System - Lighting System - Unloading Auger Diagnostics
LC1	523589	12	Service Alert	Driver for unloading auger light (cc# 525) is faulty.	Section 240 - Electrical System - Lighting System - Unloading Auger Diagnostics
LC1	523597	03	Service Alert	Left beacon (cc# 575) is ON when commanded OFF by control unit LC1.	Section 240 - Electrical System - Lighting System - Beacon Light Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
LC1	523597	05	Service Alert	Left beacon (cc# 575) is open circuit.	Section 240 - Electrical System - Lighting System - Beacon Light Diagnostics
LC1	523597	06	Service Alert	Left beacon (cc# 575) is OFF when commanded ON by control unit LC1.	Section 240 - Electrical System - Lighting System - Beacon Light Diagnostics
LC1	523597	12	Service Alert	Driver for left beacon (cc# 575) is faulty.	Section 240 - Electrical System - Lighting System - Beacon Light Diagnostics
LC1	523611	03	Service Alert	Left rear discharge light (cc# 566) is ON when commanded OFF by left power module 1	Section 240 - Electrical System - Lighting System - Work Diagnostics
LC1	523611	05	Service Alert	Left rear discharge light (cc# 566) is open circuit.	Section 240 - Electrical System - Lighting System - Work Diagnostics
LC1	523611	06	Service Alert	Left rear discharge light (cc# 566) is OFF when commanded ON by left power module 1	Section 240 - Electrical System - Lighting System - Work Diagnostics
LC1	523622	11	Service Alert	LPC1 power 5 (cc# 172) is less than 4.5 VDC at the left power module 1 input.	Section 240 - Electrical System - Control Unit LC1/LPM1 Overall Diagnostics
LC1	523648	11	Service Alert	LPC1 power 4 (cc# 142) is less than 4.5 VDC at the left power module 1 input.	Section 240 - Electrical System - Control Unit LC1/LPM1 Overall Diagnostics
LC1	523649	11	Service Alert	LPC1 power 3 (cc# 132) is less than 4.5 VDC at the left power module 1 input.	Section 240 - Electrical System - Control Unit LC1/LPM1 Overall Diagnostics
LC1	523650	11	Service Alert	LPC1 power 2 (cc# 122) is less than 4.5 VDC at the left power module 1 input.	Section 240 - Electrical System - Control Unit LC1/LPM1 Overall Diagnostics
LC1	523653	11	Service Alert	LPC1 power 1 (cc# 112) is less than 4.5 VDC at the left power module 1 input.	Section 240 - Electrical System - Control Unit LC1/LPM1 Overall Diagnostics
LC1	523665	11	Service Alert	LC1 power 2 (cc# 152) is less than 4. VDC at the control unit LC1 input.	Section 240 - Electrical System - Control Unit LC1/LPM1 Overall Diagnostics
LC1	523666	11	Service Alert	LC1 power 1 (cc# 162) is less than 4. VDC at the control unit LC1 input.	Section 240 - Electrical System - Control Unit LC1/LPM1 Overall Diagnostics
LC1	523673	05	Service Alert	Control unit LC1 driver circuits are not grounded.	Section 240 - Electrical System - Control Unit LC1/LPM1 Overall Diagnostics
LC1	523919	03	Service Alert	Gullwing service lights (cc# 594) is ON when commanded OFF by left power module 1	Section 240 - Electrical System - Lighting System - Gullwing Service Diagnostics
LC1	523919	05	Service Alert	Gullwing service lights (cc# 594) is open circuit.	Section 240 - Electrical System - Lighting System - Gullwing Service Diagnostics
LC1	523919	06	Service Alert	Gullwing service lights (cc# 594) is OFF when commanded ON by left power module 1	Section 240 - Electrical System - Lighting System - Gullwing Service Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
LC1	524260	00	Calibration	Header Calibration - center height sensor 2 (cc# 803) voltage is too high - greater than 4.75 VDC. Calibration will not proceed.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type F
LC1	524260	03	Service Alert	Center header height sensor 2 (cc# 803) is out of range - greater than 4.5 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type F Section 240 - Electrical System - Draper Speed Adjust Diagnostics
LC1	524260	04	Service Alert	Center header height sensor 2 (cc# 803) is out of range - less than 0.5 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type F Section 240 - Electrical System - Draper Speed Adjust Diagnostics
LC1	524260	07	Calibration	Header Calibration - center height sensor 2 (cc# 803) voltage range is less than 2.00 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type F
LC1	524260	10	Calibration	Header Calibration - center height sensor 2 (cc# 803) raised voltage is less than lowered voltage.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type F
LC1	524261	00	Calibration	Calibration - right height sensor 2 (cc# 828) voltage is too high - greater than 4.75 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type F
LC1	524261	01	Calibration	Header Calibration - right height sensor 2 (cc# 828) voltage is too low - less than 0.25 VDC. (Sensor is expected since auxiliary left header height sensor was detected).	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type F
LC1	524261	03	Service Alert	Right header height sensor 2 (cc# 828) is out of range - greater than 4.5 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type F Section 240 - Electrical System - Lateral Tilt - Automatic Diagnostics
LC1	524261	04	Service Alert	Right header height sensor 2 (cc# 828) is out of range - less than 0.5 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type F Section 240 - Electrical System - Lateral Tilt - Automatic Diagnostics
LC1	524261	07	Calibration	Header Calibration - right height sensor 2 (cc# 828) voltage range is less than 2.00 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type F
LC1	524261	10	Calibration	Header Calibration - right height sensor 2 (cc# 828) raised voltage is less than lowered voltage.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type F
LC1	524278	00	Calibration	Header Calibration - left height sensor 2 (cc# 826) voltage is too high - greater than 4.75 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type F

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
LC1	524278	01	Calibration	Header Calibration - left height sensor 2 (cc# 826) voltage is too low - less than 0.25 VDC. (Sensor is expected since auxiliary right header height sensor was detected).	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type E Section 240 - Electrical System - Active Header Height Control Diagnostics - Type F
LC1	524278	03	Service Alert	Left header height sensor 2 (cc# 826) is out of range - greater than 4.5 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type F Section 240 - Electrical System - Lateral Tilt - Automatic Diagnostics
LC1	524278	04	Service Alert	Left header height sensor 2 (cc# 826) is out of range - less than 0.5 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type F Section 240 - Electrical System - Lateral Tilt - Automatic Diagnostics
LC1	524278	07	Calibration	Header Calibration - left height sensor 2 (cc# 826) voltage range is less than 2.00 VDC.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type F
LC1	524278	10	Calibration	Header Calibration - left height sensor 2 (cc# 826) raised voltage is less than lowered voltage.	Section 240 - Electrical System - Active Header Height Control Diagnostics - Type F

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Diagnostic Trouble Codes - LC2 - Control Unit LC2 and Left Power Module 2

Cont.	SPN	FMI	Priority	Description	Go to
LC2	629	12	Service Alert	Control unit LC2 has reset itself due to watchdog timer.	Section 240 - Electrical System - Control Unit LC2/LPM2 Overall Diagnostics
LC2	639	14	Service Alert	No CAN Bus messages are arriving.	Section 240 - Electrical System - CAN Bus Diagnostics
LC2	1231	12	Service Alert	Local CAN Bus message is not arriving on time or missing.	Section 240 - Electrical System - Local Link System - LC2/LPM2 Diagnostics
LC2	1510	03	Service Alert	Chopper vane position (cc# 824) is out of range - greater than 4.5 VDC.	Section 240 - Electrical System - Chopper Vane Angle Diagnostics
LC2	1510	04	Service Alert	Chopper vane position (cc# 824) is out of range - less than 0.5 VDC.	Section 240 - Electrical System - Chopper Vane Angle Diagnostics
LC2	1510	13	Info	Chopper vane position (cc# 824) requires calibration.	Section 240 - Electrical System - Chopper Vane Angle Diagnostics
LC2	1554	03	Service Alert	Grain elevator speed (cc# 607) has no signal. Sensor voltage is out of range high.	Section 240 - Electrical System - Clean Grain Elevator Speed Sensor Diagnostics
LC2	1554	04	Service Alert	Grain elevator speed (cc# 607) has no signal. Sensor voltage is out of range low.	Section 240 - Electrical System - Clean Grain Elevator Speed Sensor Diagnostics
LC2	1762	03	Service Alert	Hydro charge pressure (cc# 707) has no voltage present when the engine is not running.	Section 240 - Electrical System - Hydrostatic Charge Pressure Switch Diagnostics
LC2	1867	03	Service Alert	LPM2 micro power (cc# 202) is ON when commanded OFF by control unit LC2.	Section 240 - Electrical System - Local Link System - LC2/LPM2 Diagnostics
LC2	1867	06	Service Alert	LPM2 micro power (cc# 202) is OFF when commanded ON by control unit LC2.	Section 240 - Electrical System - Local Link System - LC2/LPM2 Diagnostics
LC2	2989	03	Service Alert	Separator speed (cc# 615) has no signal. Sensor voltage is out of range high. (CTS, WTS, TTS)	Section 240 - Electrical System - Separator Speed Display Diagnostics
LC2	2989	04	Service Alert	Separator speed (cc# 615) has no signal. Sensor voltage is out of range low. (CTS, WTS, TTS)	Section 240 - Electrical System - Separator Speed Display Diagnostics
LC2	3509	03	Service Alert	LC2 sensor supply 1 (cc# 273) is out of range - greater than 5.5 VDC.	Section 240 - Electrical System - Control Unit LC2/LPM2 Overall Diagnostics
LC2	3509	04	Service Alert	LC2 sensor supply 1 (cc# 273) is out of range - less than 4.5 VDC.	Section 240 - Electrical System - Control Unit LC2/LPM2 Overall Diagnostics
LC2	3510	03	Service Alert	LC2 sensor supply 2 (cc# 287) is out of range - greater than 8.5 VDC.	Section 240 - Electrical System - Control Unit LC2/LPM2 Overall Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
LC2	3510	04	Service Alert	LC2 sensor supply 2 (cc# 287) is out of range - less than 7.5 VDC.	Section 240 - Electrical System - Control Unit LC2/LPM2 Overall Diagnostics
LC2	3597	04	Service Alert	LC2 PTC power (cc# 542) is out of range - less than 4.0 VDC.	Section 240 - Electrical System - Control Unit LC2/LPM2 Overall Diagnostics
LC2	3778	03	Service Alert	Chopper position (cc# 877) is out of range high.	Section 240 - Electrical System - Chopper Speed Diagnostics
LC2	3778	04	Service Alert	Chopper position (cc# 877) is out of range low.	Section 240 - Electrical System - Chopper Speed Diagnostics
LC2	522803	03	Service Alert	Discharge Beater speed (cc# 615) has no signal. Sensor voltage is out of range low. (CTS, WTS, TTS)	Section 240 - Electrical System - Discharge Beater Speed Sensor Diagnostics
LC2	522803	04	Service Alert	Discharge Beater speed (cc# 615) has no signal. Sensor voltage is out of range high. (CTS, WTS, TTS)	Section 240 - Electrical System - Discharge Beater Speed Sensor Diagnostics
LC2	523319	03	Service Alert	LC2 12V switched power (cc# 812) is ON when commanded OFF.	Section 240 - Electrical System - Control Unit LC2/LPM2 Overall Diagnostics
LC2	523319	06	Service Alert	LC2 12V switched power (cc# 812) is OFF when commanded ON	Section 240 - Electrical System - Control Unit LC2/LPM2 Overall Diagnostics
LC2	523414	11	Info	Right precleaner actuator failed calibration. Pulses present on precleaner 2 position (cc# 869). Limit switch remains on. (CTS, WTS, TTS)	Section 240 - Electrical System - Remote Precleaner Adjust Diagnostics
LC2	523495	06	Service Alert	Chopper vane angle right (cc# 333) is OFF when commanded ON by left power module 2.	Section 240 - Electrical System - Chopper Vane Angle Diagnostics
LC2	523502	06	Service Alert	Sieve 1 close (cc# 367) is OFF when commanded ON by control unit LC2.	Section 240 - Electrical System - Remote Sieve Adjust Diagnostics
LC2	523503	11	Service Alert	Chaffer close switch (cc# 384) is greater than 4 VDC for over 30 seconds.	Section 240 - Electrical System - Remote Chaffer Adjust Diagnostics
LC2	523504	06	Service Alert	Self leveling shoe sieve tilt right (cc# 364) is OFF when commanded ON by control unit LC2.	
LC2	523505	03	Service Alert	Self leveling shoe sieve tilt left (cc# 363) and/or self leveling shoe sieve tilt right (cc# 364) is ON when commanded OFF by control unit LC2.	
LC2	523505	05	Service Alert	Self leveling shoe sieve tilt left (cc# 363) and/or self leveling shoe sieve tilt right (cc# 364) is open circuit.	
LC2	523505	06	Service Alert	Self leveling shoe sieve tilt left (cc# 363) is OFF when commanded ON by control unit LC2.	
LC2	523506	06	Service Alert	Self leveling shoe chaffer tilt right (cc# 304) is OFF when commanded ON by control unit LC2.	
LC2	523507	03	Service Alert	Self leveling shoe chaffer tilt left (cc# 303) and/or self leveling shoe chaffer tilt right (cc# 304) is ON when commanded OFF by control unit LC2.	

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
LC2	523507	05	Service Alert	Self leveling shoe chaffer tilt left (cc# 303) and/or self leveling shoe chaffer tilt right (cc# 304) is open circuit.	
LC2	523507	06	Service Alert	Self leveling shoe chaffer tilt left (cc# 303) is OFF when commanded ON by control unit LC2.	
LC2	523508	00	Calibration	Sieve tilt position (cc# 863) is valid but greater than 3.0 VDC when centered during calibration.	
LC2	523508	01	Calibration	Sieve tilt position (cc# 863) is valid but less than 2.0 VDC when centered during calibration.	
LC2	523508	03	Service Alert	Sieve tilt position (cc# 863) is out of range high.	
LC2	523508	04	Service Alert	Sieve tilt position (cc# 863) is out of range low.	
LC2	523508	07	Service Alert	Desired sieve position was not reached.	
LC2	523508	12	Service Alert	Self leveling sieve bays are stalled.	
LC2	523508	16	Calibration	Sieve tilt position (cc# 863) is valid but greater than 2.0 VDC when fully right during calibration	
LC2	523508	18	Calibration	Sieve tilt position (cc# 863) is valid but less than 3.0 VDC when fully left during calibration.	
LC2	523509	00	Calibration	Chaffer tilt position (cc# 853) is valid but greater than 3.0 VDC when centered during calibration.	
LC2	523509	01	Calibration	Chaffer tilt position (cc# 853) is valid but less than 2.0 VDC when centered during calibration.	
LC2	523509	03	Service Alert	Chaffer tilt position (cc# 853) is out of range high.	
LC2	523509	04	Service Alert	Chaffer tilt position (cc# 853) is out of range low.	
LC2	523509	07	Service Alert	Desired chaffer position was not reached.	
LC2	523509	12	Service Alert	Self leveling chaffer bays are stalled.	
LC2	523509	13	Info	Chaffer tilt position (cc# 853) and sieve tilt position (cc# 863) require calibration.	
LC2	523509	16	Calibration	Chaffer tilt position (cc# 853) is valid but greater than 2.0 VDC when fully right during calibration	
LC2	523509	18	Calibration	Chaffer tilt position (cc# 853) is valid but less than 3.0 VDC when fully left during calibration.	
LC2	523510	03	Service Alert	Chassis tilt lower solenoid (cc# 946) is ON when commanded OFF by control unit LC2.	Section 240 - Electrical System - Chassis Tilt Diagnostics
LC2	523510	05	Service Alert	Chassis tilt lower solenoid (cc# 946) is open circuit	Section 240 - Electrical System - Chassis Tilt Diagnostics
LC2	523510	06	Service Alert	Chassis tilt lower solenoid (cc# 946) is OFF when commanded ON by control unit LC2.	Section 240 - Electrical System - Chassis Tilt Diagnostics
LC2	523511	03	Service Alert	Right two speed four wheel drive solenoid (cc# 201) is ON when commanded OFF by control unit LC2.	Section 240 - Electrical System - Four Wheel Drive Diagnostics
LC2	523511	05	Service Alert	Right two speed four wheel drive solenoid (cc# 201) is open circuit.	Section 240 - Electrical System - Four Wheel Drive Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
LC2	523511	06	Service Alert	Right two speed four wheel drive solenoid (cc# 201) is OFF when commanded ON by control unit LC2.	Section 240 - Electrical System - Four Wheel Drive Diagnostics
LC2	523512	03	Service Alert	Left two speed four wheel drive solenoid (cc# 204) is ON when commanded OFF by control unit LC2.	Section 240 - Electrical System - Four Wheel Drive Diagnostics
LC2	523512	05	Service Alert	Left two speed four wheel drive solenoid (cc# 204) is open circuit.	Section 240 - Electrical System - Four Wheel Drive Diagnostics
LC2	523512	06	Service Alert	Left two speed four wheel drive solenoid (cc# 204) is OFF when commanded ON by control unit LC2.	Section 240 - Electrical System - Four Wheel Drive Diagnostics
LC2	523513	06	Service Alert	Precleaner 2 close (cc# 397) is OFF when commanded ON by control unit LC2. (CTS, WTS, TTS)	Section 240 - Electrical System - Remote Precleaner Adjust Diagnostics
LC2	523514	03	Service Alert	Precleaner 2 open (cc# 396) and/or precleaner 2 close (cc# 397) is ON when commanded OFF by control unit LC2. (CTS, WTS, TTS)	Section 240 - Electrical System - Remote Precleaner Adjust Diagnostics
LC2	523514	05	Service Alert	Precleaner 2 open (cc# 396) and/or precleaner 2 close (cc# 397) is open circuit. (CTS, WTS, TTS)	Section 240 - Electrical System - Remote Precleaner Adjust Diagnostics
LC2	523514	06	Service Alert	Precleaner 2 open (cc# 396) is OFF when commanded ON by control unit LC2.	Section 240 - Electrical System - Remote Precleaner Adjust Diagnostics
LC2	523515	06	Service Alert	Sieve 2 close (cc# 377) is OFF when commanded ON by control unit LC2.	Section 240 - Electrical System - Remote Sieve Adjust Diagnostics
LC2	523516	03	Service Alert	Sieve 2 open (cc# 376) and/or sieve 2 close (cc# 377) is ON when commanded OFF by control unit LC2.	Section 240 - Electrical System - Remote Sieve Adjust Diagnostics
LC2	523516	06	Service Alert	Sieve 2 open (cc# 376) is OFF when commanded ON by control unit LC2.	Section 240 - Electrical System - Remote Sieve Adjust Diagnostics
LC2	523516	11	Info	Right sieve actuator failed calibration. Pulses present on sieve 2 position (cc# 829). Limit switch remains on.	Section 240 - Electrical System - Remote Sieve Adjust Diagnostics
LC2	523517	06	Service Alert	Chaffer 2 close (cc# 347) is OFF when commanded ON by control unit LC2.	Section 240 - Electrical System - Remote Chaffer Adjust Diagnostics
LC2	523518	03	Service Alert	Chaffer 2 open (cc# 346) and/or chaffer 2 close (cc# 347) is ON when commanded OFF by control unit LC2.	Section 240 - Electrical System - Remote Chaffer Adjust Diagnostics
LC2	523518	06	Service Alert	Chaffer 2 open (cc# 346) is OFF when commanded ON by control unit LC2.	Section 240 - Electrical System - Remote Chaffer Adjust Diagnostics
LC2	523518	11	Info	Right chaffer actuator failed calibration. Pulses present on chaffer 2 position (cc# 849). Limit switch remains on.	Section 240 - Electrical System - Remote Chaffer Adjust Diagnostics
LC2	523519	11	Service Alert	Precleaner open switch (cc# 373) is greater than 4 VDC for over 30 seconds. (CTS, WTS, TTS)	Section 240 - Electrical System - Remote Precleaner Adjust Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
LC2	523520	11	Service Alert	Precleaner close switch (cc# 374) is greater than 4 VDC for over 30 seconds. (CTS, WTS, TTS)	Section 240 - Electrical System - Remote Precleaner Adjust Diagnostics
LC2	523521	03	Service Alert	Sieve 1 open (cc# 366) and/or sieve 1 close (cc# 367) is ON when commanded OFF by control unit LC2.	Section 240 - Electrical System - Remote Sieve Adjust Diagnostics
LC2	523521	05	Service Alert	Sieve 1 open (cc# 366) and/or sieve 1 close (cc# 367) is open circuit.	Section 240 - Electrical System - Remote Sieve Adjust Diagnostics
LC2	523521	06	Service Alert	Sieve 1 open (cc# 366) is OFF when commanded ON by control unit LC2.	Section 240 - Electrical System - Remote Sieve Adjust Diagnostics
LC2	523521	11	Info	Left sieve actuator failed calibration. Pulses present on sieve 1 position (cc# 839). Sieve 1 limit switch (cc# 841) remains on.	Section 240 - Electrical System - Remote Sieve Adjust Diagnostics
LC2	523522	11	Service Alert	Sieve close switch (cc# 394) is greater than 4 VDC for over 30 seconds.	Section 240 - Electrical System - Remote Sieve Adjust Diagnostics
LC2	523539	11	Service Alert	Sieve open switch (cc# 393) is greater than 4 VDC for over 30 seconds.	Section 240 - Electrical System - Remote Sieve Adjust Diagnostics
LC2	523540	11	Service Alert	Chaffer open switch (cc# 383) is greater than 4 VDC for over 30 seconds.	Section 240 - Electrical System - Remote Chaffer Adjust Diagnostics
LC2	523541	03	Service Alert	Backup alarm (cc# 903) is ON when commanded OFF by control unit LC2.	Section 240 - Electrical System - Backup Alarm Diagnostics
LC2	523541	06	Service Alert	Backup alarm (cc# 903) is OFF when commanded ON by control unit LC2.	Section 240 - Electrical System - Backup Alarm Diagnostics
LC2	523542	00	Calibration	Chaffer tilt position (cc# 853) is valid but greater than 3.0 VDC when centered during calibration.	
LC2	523542	01	Calibration	Chaffer tilt position (cc# 853) is valid but less than 2.0 VDC when centered during calibration.	
LC2	523542	03	Service Alert	Chassis tilt position (cc# 873) is out of range high.	Section 240 - Electrical System - Chassis Tilt Diagnostics
LC2	523542	04	Service Alert	Chassis tilt position (cc# 873) is out of range low.	Section 240 - Electrical System - Chassis Tilt Diagnostics
LC2	523542	13	Info	Chassis tilt position (cc# 873) and sieve tilt position (cc# 863) require calibration.	Section 240 - Electrical System - Chassis Tilt Diagnostics
LC2	523543	03	Service Alert	Chassis tilt unload solenoid (cc# 949) is ON when commanded OFF by control unit LC2.	Section 240 - Electrical System - Chassis Tilt Diagnostics
LC2	523543	05	Service Alert	Chassis tilt unload solenoid (cc# 949) is open circuit	Section 240 - Electrical System - Chassis Tilt Diagnostics
LC2	523543	06	Service Alert	Chassis tilt unload solenoid (cc# 949) is OFF when commanded ON by control unit LC2.	Section 240 - Electrical System - Chassis Tilt Diagnostics
LC2	523544	03	Service Alert	Chassis tilt right solenoid (cc# 948) is ON when commanded OFF by control unit LC2.	Section 240 - Electrical System - Chassis Tilt Diagnostics
LC2	523544	05	Service Alert	Chassis tilt right solenoid (cc# 948) is open circuit.	Section 240 - Electrical System - Chassis Tilt Diagnostics
LC2	523544	06	Service Alert	Chassis tilt right solenoid (cc# 948) is OFF when commanded ON by control unit LC2.	Section 240 - Electrical System - Chassis Tilt Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
LC2	523545	03	Service Alert	Chassis tilt left solenoid (cc# 947) is ON when commanded OFF by control unit LC2.	Section 240 - Electrical System - Chassis Tilt Diagnostics
LC2	523545	05	Service Alert	Chassis tilt left solenoid (cc# 947) is open circuit	Section 240 - Electrical System - Chassis Tilt Diagnostics
LC2	523545	06	Service Alert	Chassis tilt left solenoid (cc# 947) is OFF when commanded ON by control unit LC2.	Section 240 - Electrical System - Chassis Tilt Diagnostics
LC2	523546	03	Service Alert	Chopper speed (cc# 617) has no signal. Sensor voltage is out of range high.	Section 240 - Electrical System - Warning System - Chopper Speed Diagnostics
LC2	523546	04	Service Alert	Chopper speed (cc# 617) has no signal. Sensor voltage is out of range low.	Section 240 - Electrical System - Chopper Speed Diagnostics
LC2	523547	03	Service Alert	Chopper vane angle right (cc# 333) and/or chopper vane angle left (cc# 334) is ON when commanded OFF by left power module 2.	Section 240 - Electrical System - Chopper Vane Angle Diagnostics
LC2	523547	05	Service Alert	Chopper vane angle right (cc# 333) and/or chopper vane angle left (cc# 334) is open circuit.	Section 240 - Electrical System - Chopper Vane Angle Diagnostics
LC2	523547	06	Service Alert	Chopper vane angle left (cc# 334) is OFF when commanded ON by left power module 2.	Section 240 - Electrical System - Chopper Vane Angle Diagnostics
LC2	523548	13	Info	Precleaner actuators are not calibrated. (CTS, WTS, TTS)	Section 240 - Electrical System - Remote Precleaner Adjust Diagnostics
LC2	523548	16	Info	Precleaner 1 and precleaner 2 actuators are not synchronized. (CTS, WTS, TTS)	Section 240 - Electrical System - Remote Precleaner Adjust Diagnostics
LC2	523549	13	Info	Sieve actuators are not calibrated.	Section 240 - Electrical System - Remote Sieve Adjust Diagnostics
LC2	523549	16	Info	Sieve 1 and sieve 2 actuators are not synchronized.	Section 240 - Electrical System - Remote Sieve Adjust Diagnostics
LC2	523550	13	Info	Chaffer actuators are not calibrated.	Section 240 - Electrical System - Remote Chaffer Adjust Diagnostics
LC2	523550	16	Info	Chaffer 1 and chaffer 2 actuators are not synchronized	Section 240 - Electrical System - Remote Chaffer Adjust Diagnostics
LC2	523551	06	Service Alert	Precleaner 1 close (cc# 387) is OFF when commanded ON by control unit LC2. (CTS, WTS, TTS)	Section 240 - Electrical System - Remote Precleaner Adjust Diagnostics
LC2	523552	06	Service Alert	Chaffer 1 close (cc# 307) is OFF when commanded ON by control unit LC2.	Section 240 - Electrical System - Remote Chaffer Adjust Diagnostics
LC2	523553	03	Service Alert	Precleaner 1 open (cc# 386) and/or precleaner 1 close (cc# 387) is ON when commanded OFF by control unit LC2. (CTS, WTS, TTS)	Section 240 - Electrical System - Remote Precleaner Adjust Diagnostics
LC2	523553	05	Service Alert	Precleaner 1 open (cc# 386) and/or precleaner 1 close (cc# 387) is open circuit. (CTS, WTS, TTS)	Section 240 - Electrical System - Remote Precleaner Adjust Diagnostics
LC2	523553	06	Service Alert	Precleaner 1 open (cc# 386) is OFF when commanded ON by control unit LC2. (CTS, WTS, TTS)	Section 240 - Electrical System - Remote Precleaner Adjust Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
LC2	523553	11	Info	Left precleaner actuator failed calibration. Pulses present on precleaner 1 position (cc# 859). Limit switch remains on. (CTS, WTS, TTS)	Section 240 - Electrical System - Remote Precleaner Adjust Diagnostics
LC2	523561	03	Service Alert	Chaffer 1 open (cc# 306) and/or chaffer 1 close (cc# 307) is ON when commanded OFF by control unit LC2.	Section 240 - Electrical System - Remote Chaffer Adjust Diagnostics
LC2	523561	05	Service Alert	Chaffer 1 open (cc# 306) and/or chaffer 1 close (cc# 307) is open circuit.	Section 240 - Electrical System - Remote Chaffer Adjust Diagnostics
LC2	523561	06	Service Alert	Chaffer 1 open (cc# 306) is OFF when commanded ON by control unit LC2.	Section 240 - Electrical System - Remote Chaffer Adjust Diagnostics
LC2	523561	11	Info	Left chaffer actuator failed calibration. Pulses present on chaffer 1 position (cc# 809). Limit switch remains on.	Section 240 - Electrical System - Remote Chaffer Adjust Diagnostics
LC2	523565	03	Service Alert	Left rear marker lights (cc# 554) output is ON when commanded OFF by control unit LC2.	Section 240 - Electrical System - Lighting System - Marker Diagnostics
LC2	523565	05	Service Alert	Left rear marker lights (cc# 554) output is open circuit.	Section 240 - Electrical System - Lighting System - Marker Diagnostics
LC2	523565	06	Service Alert	Left rear marker lights (cc# 554) output is OFF when commanded ON by control unit LC2.	Section 240 - Electrical System - Lighting System - Marker Diagnostics
LC2	523611	03	Service Alert	Left rear discharge light (cc# 566) is ON when commanded OFF by control unit LC2.	Section 240 - Electrical System - Lighting - Work Lights Diagnostics
LC2	523611	05	Service Alert	Left rear discharge light (cc# 566) is open circuit.	Section 240 - Electrical System - Lighting - Work Lights Diagnostics
LC2	523611	06	Service Alert	Left rear discharge light (cc# 566) is OFF when commanded ON by control unit LC2.	Section 240 - Electrical System - Lighting - Work Lights Diagnostics
LC2	523637	03	Service Alert	Four wheel drive engage solenoid (cc# 203) is ON when commanded OFF by control unit LC2.	Section 240 - Electrical System - Four Wheel Drive Diagnostics
LC2	523637	05	Service Alert	Four wheel drive engage solenoid (cc# 203) is open circuit.	Section 240 - Electrical System - Four Wheel Drive Diagnostics
LC2	523637	06	Service Alert	Four wheel drive engage solenoid (cc# 203) is OFF when commanded ON by control unit LC2.	Section 240 - Electrical System - Four Wheel Drive Diagnostics
LC2	523648	11	Service Alert	LPC2 power 4 (cc#262) is less than 4.5 VDC at the left power module 1 input.	Section 240 - Electrical System - Control Unit LC2/LPM2 Overall Diagnostics
LC2	523665	05	Service Alert	LC2 power 1 (cc# 252) at connector X339 is less than 4.0 VDC.	Section 240 - Electrical System - Control Unit LC2/LPM2 Overall Diagnostics
LC2	523666	05	Service Alert	LC2 power 2 (cc# 242) at connector X342 is less than 4.0 VDC.	Section 240 - Electrical System - Control Unit LC2/LPM2 Overall Diagnostics
LC2	523673	02	Service Alert	Chassis ground (cc# 010) not connected to ground.	Section 240 - Electrical System - Control Unit LC2/LPM2 Overall Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Diagnostic Trouble Codes - RCU - Control Unit RCU and Right Power Module

Cont.	SPN	FMI	Priority	Description	Go to
RCU	126	12	Service Alert	Five speed feeder house filter (cc# 738) problem detected when separator is not engaged.	Section 240 - Electrical System - Feeder House Speed Adjust Diagnostics - Type B
RCU	127	03	Service Alert	Five speed feeder house pressure (cc# 737) sensor voltage is out of range - greater than 4.93 VDC	Section 240 - Electrical System - Feeder House Speed Adjust Diagnostics - Type B
RCU	127	04	Service Alert	Five speed feeder house pressure (cc# 737) sensor voltage is out of range - less than 0.20 VDC	Section 240 - Electrical System - Feeder House Speed Adjust Diagnostics - Type B
RCU	127	12	Service Alert	Five speed feeder house pressure (cc# 737) is detected when separator is not running.	Section 240 - Electrical System - Feeder House Speed Adjust Diagnostics - Type B
RCU	629	12	Service Alert	Control unit RCU has reset itself due to watchdog timer.	Section 240 - Electrical System - CAN Bus Diagnostics
RCU	1075	03	Stop	Fuel transfer pump (cc# 188) is ON when not commanded by right power module.	Section 240 - Electrical System - Electric Fuel Pump Diagnostics
RCU	1075	05	Service Alert	Fuel transfer pump (cc# 188) is open circuit.	Section 240 - Electrical System - Electric Fuel Pump Diagnostics
RCU	1075	06	Service Alert	Fuel transfer pump (cc# 188) is OFF when commanded ON by right power module.	Section 240 - Electrical System - Electric Fuel Pump Diagnostics
RCU	1231	09	Service Alert	Message is not arriving on time or missing on local CAN Bus between the control unit RCU and right power module.	Section 240 - Electrical System - Local Link System - RCU/RPM Diagnostics
RCU	1488	03	Service Alert	Threshing speed (cc# 609) signal voltage feedback is out of range - greater than 4.90 VDC (STS)	Section 240 - Electrical System - Threshing Speed Display Diagnostics
RCU	1488	04	Service Alert	Threshing speed (cc# 609) signal voltage feedback is out of range - less than 0.10 VDC (STS)	Section 240 - Electrical System - Threshing Speed Display Diagnostics
RCU	1489	03	Service Alert	Cleaning fan speed (cc# 606) signal voltage feedback is out of range - greater than 4.90 VDC (STS)	Section 240 - Electrical System - Cleaning Fan Speed Display Diagnostics
RCU	1489	04	Service Alert	Cleaning fan speed (cc# 606) signal voltage feedback is out of range - less than 0.10 VDC (STS)	Section 240 - Electrical System - Cleaning Fan Speed Display Diagnostics
RCU	1490	03	Service Alert	Feeder house speed (cc# 619) signal voltage feedback is out of range - greater than 4.90 VDC (STS)	Section 240 - Electrical System - Feeder House Speed Display Diagnostics
RCU	1490	04	Service Alert	Feeder house speed (cc# 619) signal voltage feedback is out of range - less than 0.10 VDC (STS)	Section 240 - Electrical System - Feeder House Speed Display Diagnostics
RCU	1493	12	Service Alert	Tailings monitor system failure. Tailings sensors have read the same value for 10 seconds and are not full.	Section 240 - Electrical System - Tailings Monitor Diagnostics
RCU	1533	00	Calibration	Feeder house tilt sensor (cc# 815) is out of range at right position - greater than 4.5 VDC.	Section 240 - Electrical System - Lateral Tilt - Display Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
RCU	1533	01	Calibration	Feeder house tilt sensor (cc# 815) is out of range at left position - less than 0.5 VDC.	Section 240 - Electrical System - Lateral Tilt - Display Diagnostics
RCU	1533	03	Service Alert	Feeder house tilt sensor (cc# 815) is out of range - greater than 4.5 VDC.	Section 240 - Electrical System - Lateral Tilt - Display Diagnostics
RCU	1533	04	Service Alert	Feeder house tilt sensor (cc# 815) is out of range - less than 0.5 VDC.	Section 240 - Electrical System - Lateral Tilt - Display Diagnostics
RCU	1533	08	Calibration	Feeder house tilt sensor (cc# 815) voltage is greater at left position than right position.	Section 240 - Electrical System - Lateral Tilt - Display Diagnostics
RCU	1533	13	Information	Feeder house tilt sensor (cc# 815) has not been calibrated	Section 240 - Electrical System - Lateral Tilt - Display Diagnostics
RCU	1533	16	Calibration	Feeder house tilt sensor (cc# 815) voltage is greater at left position than Center position.	Section 240 - Electrical System - Lateral Tilt - Display Diagnostics
RCU	1533	18	Calibration	Feeder house tilt sensor (cc# 815) voltage is greater at Center position than right position.	Section 240 - Electrical System - Lateral Tilt - Display Diagnostics
RCU	1867	06	Service Alert	RPM micro power (cc# 302) is OFF when commanded ON by Control unit RCU.	Section 240 - Electrical System - Local Link System - RCU/RPM Diagnostics
RCU	3020	03	Stop	Unloading auger engage (cc# 319) is ON when not commanded by control unit RCU.	Section 240 - Electrical System - Unloading Auger Engage Diagnostics
RCU	3020	05	Service Alert	Unloading auger engage (cc# 319) is open circuit.	Section 240 - Electrical System - Unloading Auger Engage Diagnostics
RCU	3020	06	Service Alert	Unloading Auger engage (cc# 319) is OFF when commanded ON by control unit RCU.	Section 240 - Electrical System - Unloading Auger Engage Diagnostics
RCU	3020	14	Service Alert	Unloading Auger engage (cc# 319) is OFF when commanded ON by control unit RCU, but there is no detected problem.	Section 240 - Electrical System - Unloading Auger Engage Diagnostics
RCU	3108	3	Service Alert	Spreader speed 1 high side (cc# 343) is ON when not commanded by control unit RCU.	Section 240 - Electrical System - Straw Spreader Speed Adjust Diagnostics
RCU	3108	4	Service Alert	Spreader speed 1 high side (cc# 343) is OFF when commanded ON by control unit RCU.	Section 240 - Electrical System - Straw Spreader Speed Adjust Diagnostics
RCU	3108	5	Service Alert	Spreader speed 1 high side (cc# 343) is open circuit.	Section 240 - Electrical System - Straw Spreader Speed Adjust Diagnostics
RCU	3108	6	Service Alert	Spreader speed 1 high side (cc# 343) is OFF when commanded ON by control unit RCU.	Section 240 - Electrical System - Straw Spreader Speed Adjust Diagnostics
RCU	3108	14	Service Alert	Spreader speed 1 high side (cc# 343) is OFF when commanded ON by control unit RCU, but there is no detected problem.	Section 240 - Electrical System - Straw Spreader Speed Adjust Diagnostics
RCU	3353	3	Service Alert	Alternator field (cc# 007) is ON when not commanded by control unit RCU.	Section 240 - Electrical System - Alternator and Battery Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
RCU	3353	5	Service Alert	Alternator field (cc# 007) is open circuit.	Section 240 - Electrical System - Alternator and Battery Diagnostics
RCU	3353	6	Service Alert	Alternator field (cc# 007) is OFF when commanded ON by control unit RCU.	Section 240 - Electrical System - Alternator and Battery Diagnostics
RCU	3353	14	Service Alert	Alternator field (cc# 007) is OFF when commanded ON by control unit RCU, but there is no detected problem.	Section 240 - Electrical System - Alternator and Battery Diagnostics
RCU	3509	03	Service Alert	RCU 5 VDC sensor supply (cc# 293) is out of range - greater than 5.5 VDC.	Section 240 - Electrical System - Control Unit RCU/RPM Overall Diagnostics
RCU	3509	04	Service Alert	RCU 5 VDC sensor supply (cc# 293) is out of range - less than 4.5 VDC.	Section 240 - Electrical System - Control Unit RCU/RPM Overall Diagnostics
RCU	3510	3	Service Alert	RCU 8 VDC sensor supply (cc# 297) is out of range - greater than 8.5 VDC.	Section 240 - Electrical System - Control Unit RCU/RPM Overall Diagnostics
RCU	3510	04	Information	RCU 8 VDC sensor supply (cc# 297) is out of range - less than 7.5 VDC.	Section 240 - Electrical System - Control Unit RCU/RPM Overall Diagnostics
RCU	3597	06	Information	RCU PTC power (cc# 562) is out of range - less than 4.0 VDC.	Section 240 - Electrical System - Control Unit RCU/RPM Overall Diagnostics
RCU	523319	03	Service Alert	RCU 12 VDC switched power (cc# 822) is ON when not commanded by control unit RCU.	Section 240 - Electrical System - Control Unit RCU/RPM Overall Diagnostics
RCU	523319	06	Service Alert	RCU 12 VDC switched power (cc# 822) is OFF when commanded ON by control unit RCU.	Section 240 - Electrical System - Control Unit RCU/RPM Overall Diagnostics
RCU	523489	03	Service Alert	Engine service lights (cc# 531) are ON when not commanded by right power module.	Section 240 - Electrical System - Lighting System - Engine Service Diagnostics
RCU	523489	05	Service Alert	Engine service lights (cc# 531) are open circuit.	Section 240 - Electrical System - Lighting System - Engine Service Diagnostics
RCU	523489	06	Service Alert	Engine service lights (cc# 531) are OFF when commanded ON by right power module.	Section 240 - Electrical System - Lighting System - Engine Service Diagnostics
RCU	523493	12	Service Alert	Main gearcase filter (cc# 701) problem detected when engine is not running.	Section 240 - Electrical System - Main Gearcase Filter Alert Diagnostics
RCU	523494	03	Service Alert	Right row finder light (cc# 523) is ON when not commanded by control unit RCU.	Section 240 - Electrical System - Lighting System - Side Finder Diagnostics
RCU	523494	05	Service Alert	Right row finder light (cc# 523) is open circuit.	Section 240 - Electrical System - Lighting System - Side Finder Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
RCU	523494	06	Service Alert	Right row finder light (cc# 523) is OFF when commanded ON by control unit RCU.	Section 240 - Electrical System - Lighting System - Side Finder Diagnostics
RCU	523501	12	Service Alert	Main gearcase pressure (cc# 703) is detected when engine is not running.	Section 240 - Electrical System - Main Gearcase Pressure Sensor Diagnostics
RCU	523574	03	Service Alert	Main gearcase temperature sensor (cc# 754) is out of range - greater than 4.93 VDC.	Section 240 - Electrical System - Main Gearcase Temperature Sensor Diagnostics
RCU	523574	04	Service Alert	Main gearcase temperature sensor (cc# 754) is out of range - less than 0.10 VDC.	Section 240 - Electrical System - Main Gearcase Temperature Sensor Diagnostics
RCU	523592	06	Service Alert	Threshing clearance decrease (cc# 324) is OFF when commanded ON by control unit RCU. (CWS/CTS)	Section 240 - Electrical System - Threshing Clearance Adjust Diagnostics
RCU	523593	03	Service Alert	Threshing clearance increase (cc# 323) and/or threshing clearance decrease (cc# 324) is ON when commanded OFF by control unit RCU. (CWS/CTS)	Section 240 - Electrical System - Threshing Clearance Adjust Diagnostics
RCU	523593	05	Service Alert	Threshing clearance increase (cc# 323) and/or threshing clearance decrease (cc# 324) is open circuit. (CWS/CTS)	Section 240 - Electrical System - Threshing Clearance Adjust Diagnostics
RCU	523593	06	Service Alert	Threshing clearance increase (cc# 323) is OFF when commanded ON by control unit RCU. (CWS/CTS)	Section 240 - Electrical System - Threshing Clearance Adjust Diagnostics
RCU	523594	03	Service Alert	Shoe service lights (cc# 595) is ON when not commanded by right power module.	Section 240 - Electrical System - Lighting System - Shoe Service Diagnostics
RCU	523594	05	Service Alert	Shoe service lights (cc# 595) is open circuit.	Section 240 - Electrical System - Lighting System - Shoe Service Diagnostics
RCU	523594	06	Service Alert	Shoe service lights (cc# 595) is OFF when commanded ON by right power module.	Section 240 - Electrical System - Lighting System - Shoe Service Diagnostics
RCU	523595	03	Service Alert	Lower driving lights (cc# 586) is ON when not commanded by right power module.	Section 240 - Electrical System - Lighting System - Road Type B
RCU	523595	05	Service Alert	Lower driving lights (cc# 586) is open circuit.	Section 240 - Electrical System - Lighting System - Road Type B
RCU	523595	06	Service Alert	Lower driving lights (cc# 586) is OFF when commanded ON by right power module.	Section 240 - Electrical System - Lighting System - Road Type B
RCU	523597	03	Service Alert	Rear beacon lights (cc# 574) is ON when not commanded by right power module.	Section 240 - Electrical System - Lighting - Beacon Light Diagnostics
RCU	523597	05	Service Alert	Rear beacon lights (cc# 574) is open circuit.	Section 240 - Electrical System - Lighting - Beacon Light Diagnostics
RCU	523597	06	Service Alert	Rear beacon lights (cc# 574) is OFF when commanded ON by right power module.	Section 240 - Electrical System - Lighting - Beacon Light Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
RCU	523598	06	Service Alert	Cleaning fan speed decrease (cc# 326) is OFF when commanded ON by control unit RCU. (STS)	Section 240 - Electrical System - Cleaning Fan Speed Adjust Diagnostics
RCU	523599	03	Service Alert	Cleaning fan speed increase (cc# 325) and/or cleaning fan speed decrease (cc# 326) is ON when commanded OFF by control unit RCU. (STS)	Section 240 - Electrical System - Cleaning Fan Speed Adjust Diagnostics
RCU	523599	05	Service Alert	Cleaning fan speed increase (cc# 325) and/or cleaning fan speed decrease (cc# 326) is open circuit. (STS)	Section 240 - Electrical System - Cleaning Fan Speed Adjust Diagnostics
RCU	523599	06	Service Alert	Cleaning fan speed increase (cc# 325) is OFF when commanded ON by control unit RCU. (STS)	Section 240 - Electrical System - Cleaning Fan Speed Adjust Diagnostics
RCU	523600	06	Service Alert	Grain tank covers open (cc# 336) is OFF when commanded ON by control unit RCU.	Section 240 - Electrical System - Grain Tank Cover Diagnostics
RCU	523601	03	Service Alert	Grain tank covers close (cc# 335) and/or Grain tank covers open (cc# 336) is ON when commanded OFF by control unit RCU.	Section 240 - Electrical System - Grain Tank Cover Diagnostics
RCU	523601	05	Service Alert	Grain tank covers close (cc# 335) and/or Grain tank covers open (cc# 336) is open circuit.	Section 240 - Electrical System - Grain Tank Cover Diagnostics
RCU	523601	06	Service Alert	Grain tank covers close (cc# 335) is OFF when commanded ON by control unit RCU.	Section 240 - Electrical System - Grain Tank Cover Diagnostics
RCU	523602	03	Service Alert	Five speed feeder house drive valve 5 (cc# 448) is ON when not commanded by control unit RCU.	Section 240 - Electrical System - Header Engage Diagnostics - Type B
RCU	523602	05	Service Alert	Five speed feeder house drive valve 5 (cc# 448) is open circuit.	Section 240 - Electrical System - Header Engage Diagnostics - Type B
RCU	523602	06	Service Alert	Five speed feeder house drive valve 5 (cc# 448) is OFF when commanded ON by control unit RCU.	Section 240 - Electrical System - Header Engage Diagnostics - Type B
RCU	523603	03	Service Alert	Five speed feeder house drive valve 4 (cc# 447) is ON when not commanded by control unit RCU.	Section 240 - Electrical System - Header Engage Diagnostics - Type B
RCU	523603	05	Service Alert	Five speed feeder house drive valve 4 (cc# 447) is open circuit.	Section 240 - Electrical System - Header Engage Diagnostics - Type B
RCU	523603	06	Service Alert	Five speed feeder house drive valve 4 (cc# 447) is OFF when commanded ON by control unit RCU.	Section 240 - Electrical System - Header Engage Diagnostics - Type B
RCU	523604	03	Service Alert	Five speed feeder house drive valve 3 (cc# 446) is ON when not commanded by control unit RCU.	Section 240 - Electrical System - Header Engage Diagnostics - Type B
RCU	523604	04	Service Alert	Five speed feeder house drive valve 3 (cc# 446) is OFF when commanded ON by control unit RCU.	Section 240 - Electrical System - Header Engage Diagnostics - Type B

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
RCU	523604	05	Service Alert	Five speed feeder house drive valve 3 (cc# 446) is open circuit.	Section 240 - Electrical System - Header Engage Diagnostics - Type B
RCU	523604	06	Service Alert	Five speed feeder house drive valve 3 (cc# 446) is OFF when commanded ON by control unit RCU.	Section 240 - Electrical System - Header Engage Diagnostics - Type B
RCU	523605	03	Service Alert	Five speed feeder house drive valve 2 (cc# 445) is ON when not commanded by control unit RCU.	Section 240 - Electrical System - Header Engage Diagnostics - Type B
RCU	523605	04	Service Alert	Five speed feeder house drive valve 2 (cc# 445) is OFF when commanded ON by control unit RCU.	Section 240 - Electrical System - Header Engage Diagnostics - Type B
RCU	523605	05	Service Alert	Five speed feeder house drive valve 2 (cc# 445) is open circuit.	Section 240 - Electrical System - Header Engage Diagnostics - Type B
RCU	523605	06	Service Alert	Five speed feeder house drive valve 2 (cc# 445) is OFF when commanded ON by control unit RCU.	Section 240 - Electrical System - Header Engage Diagnostics - Type B
RCU	523606	03	Service Alert	Five speed feeder house drive valve 1 (cc# 444) is ON when not commanded by control unit RCU.	Section 240 - Electrical System - Header Engage Diagnostics - Type B
RCU	523606	04	Service Alert	Five speed feeder house drive valve 1 (cc# 444) is OFF when commanded ON by control unit RCU.	Section 240 - Electrical System - Header Engage Diagnostics - Type B
RCU	523606	05	Service Alert	Five speed feeder house drive valve 1 (cc# 444) is open circuit.	Section 240 - Electrical System - Header Engage Diagnostics - Type B
RCU	523606	06	Service Alert	Five speed feeder house drive valve 1 (cc# 444) is OFF when commanded ON by control unit RCU.	Section 240 - Electrical System - Header Engage Diagnostics - Type B
RCU	523611	03	Service Alert	Right rear discharge light (cc# 565) is ON when not commanded by control unit RCU.	Section 240 - Electrical System - Lighting System - Work Diagnostics
RCU	523611	05	Service Alert	Right rear discharge light (cc# 565) is open circuit.	Section 240 - Electrical System - Lighting System - Work Diagnostics
RCU	523611	06	Service Alert	Right rear discharge light (cc# 565) is OFF when commanded ON by control unit RCU.	Section 240 - Electrical System - Lighting System - Work Diagnostics
RCU	523611	14	Service Alert	Right rear discharge light (cc# 565) is OFF when commanded ON by control unit RCU, but there is no detected problem.	Section 240 - Electrical System - Lighting System - Work Diagnostics
RCU	523612	03	Service Alert	Right stubble light (cc# 563) is ON when not commanded by control unit RCU.	Section 240 - Electrical System - Lighting System - Work Diagnostics
RCU	523612	05	Service Alert	Right stubble light (cc# 563) is open circuit.	Section 240 - Electrical System - Lighting System - Work Diagnostics
RCU	523612	06	Service Alert	Right stubble light (cc# 563) is OFF when commanded ON by control unit RCU.	Section 240 - Electrical System - Lighting System - Work Diagnostics
RCU	523612	14	Service Alert	Right stubble light (cc# 563) is OFF when commanded ON by control unit RCU, but there is no detected problem.	Section 240 - Electrical System - Lighting System - Work Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
RCU	523613	03	Service Alert	Spreader speed 2 high side (cc# 353) is ON when not commanded by control unit RCU.	Section 240 - Electrical System - Straw Spreader Speed Adjust Diagnostics
RCU	523613	04	Service Alert	Spreader speed 2 high side (cc# 353) is OFF when commanded ON by control unit RCU.	Section 240 - Electrical System - Straw Spreader Speed Adjust Diagnostics
RCU	523613	05	Service Alert	Spreader speed 2 high side (cc# 353) is open circuit.	Section 240 - Electrical System - Straw Spreader Speed Adjust Diagnostics
RCU	523613	06	Service Alert	Spreader speed 2 high side (cc# 353) is OFF when commanded ON by control unit RCU.	Section 240 - Electrical System - Straw Spreader Speed Adjust Diagnostics
RCU	523613	14	Service Alert	Spreader speed 2 high side (cc# 353) is OFF when commanded ON by control unit RCU, but there is no detected problem.	Section 240 - Electrical System - Straw Spreader Speed Adjust Diagnostics
RCU	523614	03	Service Alert	Right marker lights (cc# 553) is ON when not commanded by control unit RCU.	Section 240 - Electrical System - Lighting System - Marker Diagnostics
RCU	523614	05	Service Alert	Right marker lights (cc# 553) is open circuit.	Section 240 - Electrical System - Lighting System - Marker Diagnostics
RCU	523614	06	Service Alert	Right marker lights (cc# 553) is OFF when commanded ON by control unit RCU.	Section 240 - Electrical System - Lighting System - Marker Diagnostics
RCU	523614	14	Service Alert	Right marker lights (cc# 553) output driver fault	Section 240 - Electrical System - Lighting System - Marker Diagnostics
RCU	523615	03	Stop	Separator engage (cc# 301) is ON when not commanded by control unit RCU.	Section 240 - Electrical System - Separator Engage Diagnostics
RCU	523615	05	Service Alert	Separator engage (cc# 301) is open circuit.	Section 240 - Electrical System - Separator Engage Diagnostics
RCU	523615	06	Service Alert	Separator engage (cc# 301) is OFF when commanded ON by control unit RCU.	Section 240 - Electrical System - Separator Engage Diagnostics
RCU	523615	14	Service Alert	Separator engage (cc# 301) is OFF when commanded ON by control unit RCU, but there is no detected problem.	Section 240 - Electrical System - Separator Engage Diagnostics
RCU	523616	03	Service Alert	Discharge beater speed (cc# 611) signal voltage feedback is out of range - greater than 4.90 VDC (STS)	Section 240 - Electrical System - Service Alert System - Discharge Beater Speed Diagnostics
RCU	523616	04	Service Alert	Discharge beater speed (cc# 611) signal voltage feedback is out of range - less than 0.10 VDC (STS)	Section 240 - Electrical System - Service Alert System - Discharge Beater Speed Diagnostics
RCU	523617	03	Service Alert	Capacitive fuel level 2 sensor (cc# 756) is out of range - greater than 4.5 VDC.	
RCU	523617	04	Service Alert	Capacitive fuel level 2 sensor (cc# 756) is out of range - less than 0.2 VDC.	
RCU	523618	03	Service Alert	Capacitive fuel level 1 sensor (cc# 755) is out of range - greater than 4.5 VDC.	

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
RCU	523618	04	Service Alert	Capacitive fuel level 1 sensor (cc# 755) is out of range - less than 0.2 VDC.	
RCU	523619	03	Service Alert	Resistive fuel level 2 sensor (cc# 756) is out of range - greater than 4.5 VDC.	Section 240 - Electrical System - Fuel Level Display Diagnostics
RCU	523619	04	Service Alert	Resistive fuel level 2 sensor (cc# 756) is out of range - less than 0.2 VDC.	Section 240 - Electrical System - Fuel Level Display Diagnostics
RCU	523620	03	Service Alert	Resistive fuel level 1 sensor (cc# 755) is out of range - greater than 4.5 VDC.	Section 240 - Electrical System - Fuel Level Display Diagnostics
RCU	523620	04	Service Alert	Resistive fuel level 1 sensor (cc# 755) is out of range - less than 0.2 VDC.	Section 240 - Electrical System - Fuel Level Display Diagnostics
RCU	523621	00	Calibration	Threshing clearance (cc# 833) is out of range at maximum - greater than 4.5 VDC. (CWS & CTS)	Section 240 - Electrical System - Threshing Clearance Display Diagnostics
RCU	523621	01	Calibration	Threshing clearance (cc# 833) is out of range at minimum - less than 2.5 VDC. (CWS & CTS)	Section 240 - Electrical System - Threshing Clearance Display Diagnostics
RCU	523621	03	Service Alert	Threshing clearance (cc# 833) is out of range - greater than 4.5 VDC. (CWS & CTS)	Section 240 - Electrical System - Threshing Clearance Display Diagnostics
RCU	523621	04	Service Alert	Threshing clearance (cc# 833) is out of range - less than 0.5 VDC. (CWS & CTS)	Section 240 - Electrical System - Threshing Clearance Display Diagnostics
RCU	523621	13	Information	Threshing clearance (cc# 833) has not been calibrated	Section 240 - Electrical System - Threshing Clearance Display Diagnostics
RCU	523622	04	Information	RPC power 5 (cc# 362) less than 10.5 VDC at the right power module input.	Section 240 - Electrical System - Control Unit RCU/RPM Overall Diagnostics
RCU	523623	03	Service Alert	RCU 12 VDC switched power 2 (cc# 922) is ON when not commanded by control unit RCU.	Section 240 - Electrical System - Control Unit RCU/RPM Overall Diagnostics
RCU	523623	06	Service Alert	RCU 12 VDC switched power 2 (cc# 922) is OFF when commanded ON by control unit RCU.	Section 240 - Electrical System - Control Unit RCU/RPM Overall Diagnostics
RCU	523648	04	Information	RPC power 4 (cc# 352) less than 10.5 VDC at the right power module input.	Section 240 - Electrical System - Control Unit RCU/RPM Overall Diagnostics
RCU	523649	04	Information	RPC power 3 (cc# 332) less than 10.5 VDC at the right power module input.	Section 240 - Electrical System - Control Unit RCU/RPM Overall Diagnostics
RCU	523650	04	Information	RPC power 2 (cc# 322) less than 10.5 VDC at the right power module input.	Section 240 - Electrical System - Control Unit RCU/RPM Overall Diagnostics
RCU	523653	04	Information	RPC power 1 (cc# 312) less than 10.5 VDC at the right power module input.	Section 240 - Electrical System - Control Unit RCU/RPM Overall Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Cont.	SPN	FMI	Priority	Description	Go to
RCU	523665	04	Information	RCU power 1 (cc# 342) at connector X132 is less than 4.0 VDC.	Section 240 - Electrical System - Control Unit RCU/RPM Overall Diagnostics
RCU	523666	04	Information	RCU power 1 (cc# 342) at connector X131 is less than 4.0 VDC.	Section 240 - Electrical System - Control Unit RCU/RPM Overall Diagnostics
RCU	523673	05	Information	Chassis ground (cc# 010) not connected to ground.	Section 240 - Electrical System - Control Unit RCU/RPM Overall Diagnostics
RCU	523744	03	Service Alert	Air conditioner compressor (cc# 941) is ON when not commanded by control unit RCU.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
RCU	523744	05	Service Alert	Air conditioner compressor (cc# 941) is open circuit.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
RCU	523744	06	Service Alert	Air conditioner compressor (cc# 941) is OFF when commanded ON by control unit RCU.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
RCU	523744	14	Service Alert	Air conditioner compressor (cc# 941) is OFF when commanded ON by control unit RCU, but there is no detected problem.	Section 240 - Electrical System - Heating, Ventilating and Air Conditioning Diagnostics
RCU	523810	03	Service Alert	Steering solenoid power (cc# 942) is ON when not commanded by control unit RCU.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
RCU	523810	06	Service Alert	Steering solenoid power (cc# 942) is OFF when commanded ON by control unit RCU.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
RCU	524084	03	Service Alert	Hydraulic oil temp sensor (cc# 753) is out of range - greater than 4.93 VDC.	Section 240 - Electrical System - Hydraulic Oil Temperature Sensor Diagnostics
RCU	524084	04	Service Alert	Hydraulic oil temp sensor (cc# 753) is out of range - less than 0.10 VDC.	Section 240 - Electrical System - Hydraulic Oil Temperature Sensor Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Diagnostic Trouble Codes - SFC - Control Unit SFC

Control Unit	SPN	FMI	Priority	Description	Go to
SFC	190	09	Service Alert	CAN Bus message containing engine speed arriving at an abnormal update rate	Section 240 - Electrical System - Hydrostatic Drive Control Diagnostics - Automatic Feed Rate
SFC	200411	00	Service Alert	CAN Bus message indicates rotor pressure out of range high	Section 240 - Electrical System - Hydrostatic Drive Control Diagnostics - Automatic Feed Rate
SFC	200411	01	Service Alert	CAN Bus message indicates rotor pressure out of range low	Section 240 - Electrical System - Hydrostatic Drive Control Diagnostics - Automatic Feed Rate
SFC	200411	04	Service Alert	CAN Bus message indicates rotor drive pressure sensor shorted to ground	Section 240 - Electrical System - Hydrostatic Drive Control Diagnostics - Automatic Feed Rate
SFC	200411	05	Service Alert	CAN Bus message indicates rotor drive pressure sensor shorted to power	Section 240 - Electrical System - Hydrostatic Drive Control Diagnostics - Automatic Feed Rate
SFC	200411	09	Service Alert	CAN Bus message containing rotor pressure arriving at an abnormal update rate	Section 240 - Electrical System - Hydrostatic Drive Control Diagnostics - Automatic Feed Rate
SFC	298682	09	Service Alert	CAN Bus message containing ground speed arriving at an abnormal update rate	Section 240 - Electrical System - Hydrostatic Drive Control Diagnostics - Automatic Feed Rate
SFC	298982	09	Service Alert	CAN Bus message containing unloading auger status arriving at an abnormal update rate	Section 240 - Electrical System - Hydrostatic Drive Control Diagnostics - Automatic Feed Rate
SFC	298983	09	Service Alert	CAN Bus message containing four wheel drive low speed status arriving at an abnormal update rate	Section 240 - Electrical System - Hydrostatic Drive Control Diagnostics - Automatic Feed Rate
SFC	298984	09	Service Alert	CAN Bus message containing four wheel drive high speed status arriving at an abnormal update rate	Section 240 - Electrical System - Hydrostatic Drive Control Diagnostics - Automatic Feed Rate
SFC	299084	09	Service Alert	CAN Bus message containing header height arriving at an abnormal update rate	Section 240 - Electrical System - Hydrostatic Drive Control Diagnostics - Automatic Feed Rate
SFC	299102	09	Service Alert	CAN Bus message containing header engage status arriving at an abnormal update rate	Section 240 - Electrical System - Hydrostatic Drive Control Diagnostics - Automatic Feed Rate
SFC	299103	09	Service Alert	CAN Bus message containing separator engage status arriving at an abnormal update rate	Section 240 - Electrical System - Hydrostatic Drive Control Diagnostics - Automatic Feed Rate

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Control Unit	SPN	FMI	Priority	Description	Go to
SFC	299171	09	Service Alert	CAN Bus message containing threshing speed arriving at an abnormal update rate	Section 240 - Electrical System - Hydrostatic Drive Control Diagnostics - Automatic Feed Rate
SFC	299165	09	Service Alert	CAN Bus message containing grain loss arriving at an abnormal update rate	Section 240 - Electrical System - Hydrostatic Drive Control Diagnostics - Automatic Feed Rate

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Diagnostic Trouble Codes - SSU - Control Unit SSU

Control Unit	SPN	FMI	Priority	Description	Go to
SSU	84	09	Service Alert	CAN bus message containing ground speed not available	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	168	03	Service Alert	SSU power (cc# 972) out of range high	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	168	04	Service Alert	SSU power (cc# 972) out of range low	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	628	02	Service Alert	Control unit SSU malfunction: EEPROM check sum invalid. Clear code. Replace control unit SSU if condition persists.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	628	12	Service Alert	Control unit SSU being reprogrammed (boot block generated). Reprogram control unit SSU. Replace control unit SSU if condition persists.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	629	12	Service Alert	Control unit SSU malfunction: watchdog timer reset. Clear code. Replace control unit SSU if condition persists.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	630	13	Service Alert	Automatic steering system not calibrated	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	767	09	Service Alert	CAN Bus message containing backup alarm switch information not available	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	1079	03	Info	Steering flowmeter supply (cc# 046) out of range high.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	1079	04	Info	Steering flowmeter supply (cc# 046) out of range low.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	1504	09	Service Alert	CAN bus message containing seat switch status not available	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	1504	14	Service Alert	Operator out of seat during automatic steering operation	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	1638	09	Service Alert	CAN bus message containing hydraulic oil temperature not available	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	1807	02	Info	Steering input device indicates clockwise rotation when the steering flowmeter indicates counter-clockwise rotation.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	1807	03	Info	SSU sensor supply 2 (cc# 053) out of range high	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Control Unit	SPN	FMI	Priority	Description	Go to
SSU	1807	04	Info	SSU sensor supply 2 (cc# 053) out of range low	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	1807	05	Info	SSU sensor supply 2 (cc# 053) current out of range low - less than 4 mA.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	1807	06	Info	SSU sensor supply 2 (cc# 053) current out of range high - greater than 20 mA.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	1807	10	Service Alert	Steering position sensor 1 signals do not match steering position sensor 2 signals. Clear code. Replace steering encoder if condition persists.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	1807	14	Info	Steering encoder 1A (cc# 054) and Steering encoder 1B (cc# 051) indicate different steering rates. Clear code. Replace steering encoder if condition persists.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	522273	00	Service Alert	Steering valve signal (cc# 058) out of range high	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	522273	01	Service Alert	Steering valve signal (cc# 058) out of range low	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	522331	09	Service Alert	CAN Bus message containing multifunction control handle position sensor information not available.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	522387	07	Service Alert	Steering valve is commanded to turn combine, but steering flowmeter indicates no oil movement.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	522394	09	Service Alert	CAN bus message containing terrain compensation module information not available	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	523651	02	Service Alert	Control unit SSU malfunction: stack overflow. Clear code. Replace control unit SSU if condition persists.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	523698	09	Service Alert	CAN bus message containing GREENSTAR display AutoTrac navigation information not available	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	523766	02	Service Alert	Invalid AutoTrac activation code. Go to John Deere web site www.stellarsupport.com and provide serial number of control unit SSU and vehicle serial number to obtain valid activation code.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	523767	09	Service Alert	CAN bus message containing resume button 2 and resume button 3 status not available.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	523795	02	Service Alert	Steering valve orientation incorrect.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Control Unit	SPN	FMI	Priority	Description	Go to
SSU	523795	11	Service Alert	Steering valve deadbands inconsistent	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	523795	12	Service Alert	Steering valve assembly or wiring faulty	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	523795	13	Service Alert	Steering valve calibration fault. Recalibrate with rear wheels off the ground. Replace steering valve if condition persists.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	523810	00	Service Alert	Steering valve power (cc# 057) out of range high.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	523810	01	Service Alert	Steering valve power (cc# 057) out of range low.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	523821	02	Service Alert	Machine mismatch (8000/9000, or Tracks/wheels). There is a problem with harness jumper (cc# ???)	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	523822	02	Service Alert	Steering flowmeter direction does not agree with steering encoder direction	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	523822	05	Service Alert	Steering flowmeter supply (cc# 046) current out of range low - less than 20 mA.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	523822	06	Service Alert	Steering flowmeter supply (cc# 046) current out of range high - greater than 50 mA.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	523822	07	Service Alert	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.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	523822	08	Service Alert	Steering flowmeter signal 1 (cc# 045) or steering flowmeter signal 2 (cc# 048) missing.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	523822	10	Service Alert	Wheel motion detected by steering flowmeter with no Steering input device motion	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	523822	12	Service Alert	Steering flowmeter hysteresis excessive during calibration.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	523822	14	Service Alert	Steering flowmeter signal 1 (cc# 045) and flowmeter signal 2 (cc# 893) indicate different steering rates.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	523824	03	Info	SSU sensor supply 2 (cc# 053) out of range high	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Control Unit	SPN	FMI	Priority	Description	Go to
SSU	523824	04	Info	SSU sensor supply 2 (cc# 053) out of range low	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	523824	05	Info	SSU sensor supply 2 (cc# 053) current out of range low - Less than 4 mA.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	523824	06	Info	SSU sensor supply 2 (cc# 053) current out of range high - greater than 20 mA.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	523824	10	Service Alert	Steering encoder 2 signals do not match steering encoder 1 signals.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	523824	14	Service Alert	Steering encoder 2A (cc# 044) and steering encoder 2B (cc# 041) indicate different steering rates.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics
SSU	524221	09	Service Alert	Go to John Deere web site www.stellarsupport.com and select GREENSTAR System update.	Section 240 - Electrical System - GreenStar - Steering - Auto Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Codes - SSU - Last Exit Codes

Control Unit	SPN	FMI	Last Exit Codes	Pri.	Description	Go To Section	Go To Group
SSU			None		The system is just initializing - nothing has been checked yet.	240	GREENSTAR Steering - Auto Type Identification
SSU			Steering Wheel or Steering Wheel Moved		Indicates steering wheel has been moved manually disabling/deactivating AutoTrac operation.	240	GREENSTAR Steering - Auto Type Identification
SSU			Too Slow or Speed Too Slow		Indicates vehicle speed is too slow, which causes AutoTrac to not enable/activate, or causes AutoTrac to disable/deactivate when active.	240	GREENSTAR Steering - Auto Type Identification
SSU			Too Fast or Speed Too Fast		Indicates vehicle speed is too fast, which causes AutoTrac to not enable/activate, or causes AutoTrac to disable/deactivate when active.	240	GREENSTAR Steering - Auto Type Identification
SSU			Reverse Timeout		Indicates AutoTrac active in reverse gear too long.	240	GREENSTAR Steering - Auto Type Identification
SSU			Track Changed or Track Number Changed		Indicates vehicle has wandered to a different parallel track number, which causes AutoTrac to disable/deactivate.	240	GREENSTAR Steering - Auto Type Identification
SSU			Lost Dual GPS or Invalid GPS Signal		Indicates global position system communication is not dual frequency, which causes AutoTrac to not enable/activate, or causes AutoTrac to disable/deactivate when active.	240	GREENSTAR Steering - Auto Type Identification
SSU			SSU Error or SSU Fault		Indicates there is a SSU Diagnostic Trouble code, which causes AutoTrac to not enable/activate, or causes AutoTrac to disable/deactivate when active.	240	GREENSTAR Steering - Auto Type Identification
SSU			OK		Indicates to the operator the process of disabling AutoTrac by pressing button next to AutoTrac icon was successful.	240	GREENSTAR Steering - Auto Type Identification
SSU			No GSD or Invalid Display Messages		Indicates the SSU is not communicating with the GREENSTAR Display or GREENSTAR Display messages being sent to SSU are not correct.	240	GREENSTAR Steering - Auto Type Identification

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Control Unit	SPN	FMI	Last Exit Codes	Pri.	Description	Go To Section	Go To Group
SSU			PT Turned Off or Invalid Display Settings		Indicates GREENSTAR Parallel Tracking setup has not been established for this field. An A/B line needs to be set before AutoTrac activation.	240	GREENSTAR Steering - Auto Type Identification
SSU			No KeyCard or No AutoTrac Activation		Indicates the system does not have a AutoTrac KeyCard, or there is a problem with the operator's AutoTrac KeyCard.	240	GREENSTAR Steering - Auto Type Identification
SSU			Heading Error or Heading Error Too Large		Indicates the heading path is out of range causing AutoTrac to deactivate, or when trying to activate the heading is greater than 45° from track.	240	GREENSTAR Steering - Auto Type Identification
SSU			Lateral Error or Off-Tracking Error Too Large		Indicates the lateral error is out of bounds causing AutoTrac to deactivate, or the lateral error is too great for AutoTrac to activate.	240	GREENSTAR Steering - Auto Type Identification
SSU	1504	14	No Operator or Out of Seat		Indicates the operator is out of seat, or the seat switch is not working, which causes AutoTrac to not enable/activate, or causes AutoTrac to disable/deactivate when active.	240	GREENSTAR Steering - Auto Type Identification
SSU			Low Oil Temp or Oil Temp Too Cold		Indicates the oil temperature is below 0°C / 32°F. AutoTrac will not activate until oil temperature is above 0°C/32°F.	240	GREENSTAR Steering - Auto Type Identification
SSU			No TCM or No TCM Corrections		Indicates the system can not detect a terrain compensation module. AutoTrac will not activate unless there is a TCM on CAN bus.	240	GREENSTAR Steering - Auto Type Identification
SSU			Act Code or Invalid SSU Activation Code		Indicates the wrong SSU activation code was entered.	240	Call your local GREENSTAR support number for assistance.
SSU			Diagnostics or SSU in Diagnostic Mode		Indicates the system is in calibration mode when AutoTrac is attempting to enable/activate.	240	GREENSTAR Steering - Auto Type Identification
SSU			Hdr Sw or Header Off		Indicates to the operator the header switch is not ON, which causes AutoTrac to not enable/activate, or causes AutoTrac to disable/deactivate when active.		GREENSTAR Steering - Auto Type Identification
SSU			Road Sw or Road Mode		Indicates to the operator the Road switch is ON, which causes AutoTrac to not enable/activate, or causes AutoTrac to disable/deactivate when active.		GREENSTAR Steering - Auto Type Identification

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Control Unit	SPN	FMI	Last Exit Codes	Pri.	Description	Go To Section	Go To Group
SSU			Voltage Too Low or Invalid SSU Voltage		Indicates supply voltage is not yet stable..		GREENSTAR Steering - Auto Type Identification
SSU			0 speed Timeout or Vehicle Too Slow		ATU will deactivate when vehicle speed is below 1.5 kph (1 mph) for 30 seconds.		GREENSTAR Steering - Auto Type Identification
SSU			Curvature or Curve Too Sharp		Indicates maximum curvature exceeded. Slow vehicle speed to allow for sharp curve, or record another curve path.		GREENSTAR Steering - Auto Type Identification
SSU			Wrong Direction or vehicle not traveling in the forward direction.		Indicates vehicle is not traveling in forward direction.		GREENSTAR Steering - Auto Type Identification
SSU			Shutting Down or Vehicle Shutting Down		Switched power is low.		GREENSTAR Steering - Auto Type Identification
SSU			Bad Gear or Gear data error		Indicates SSU is receiving bad gear data.		GREENSTAR Steering - Auto Type Identification
SSU			Bad Resume or Resume Switch error.		Indicates SSU receiving bad data from resume switch.		GREENSTAR Steering - Auto Type Identification
SSU			Key Switch error		Indicates the key switch is not sending valid data to enable AutoTrac.		GREENSTAR Steering - Auto Type Identification
SSU			Not Enabled or AutoTrac Not Enabled		Indicates AutoTrac is not enabled. Operator needs to select enable button.		GREENSTAR Steering - Auto Type Identification
SSU			Acquiring Line		Indicates ATU is active and in line acquisition mode.		GREENSTAR Steering - Auto Type Identification

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