

M205 SELF-PROPELLED WINDROWER OPERATOR'S MANUAL SUPPLEMENT. Issued 01 November 2013.

Insert the attached sheets at the back of M205 Self-Propelled Windrower Operator's Manual 169469 Rev. F. and retain this cover sheet for future reference.

1 Engine Error Codes

Example: Cab Display Module (CDM) displays the Error Code 110S 16F 28C

1. 110S - S represents the SPN column. Locate code 110 in that column.
2. 16F - F represents the FMI column. Locate code 16 in that column.
3. 28C - C is occurrences, 28 is the quantity.
4. DESCRIPTION - Coolant Temperature High – Data Valid but Above Normal Operational Range - Moderately Severe Level Engine Coolant Temp.
5. Refer to LAMP COLOR and specific ENGINE CODES as required.

J1939 SPN	J1939 FMI	Lamp color	Cummins code	J1939 SPN	Cummins description	Category	CDM error message
22	3	Amber	719		Crankcase Pressure	Extended Crankcase Blow-by Pressure Circuit - Voltage Above Normal, or Shorted to High Source	Crankcase Pressure
	4	Amber	729			Extended Crankcase Blow-by Pressure Circuit - Voltage Below Normal, or Shorted to Low Source	
32	3	Amber	2111		Coolant Temperature	Coolant Temperature 2 Sensor Circuit - Voltage Above Normal, or Shorted to High Source	Coolant Temperature
52	0	Red	2114			Coolant Temperature 2 - Data Valid but Above Normal Operational Range - Most Severe Level	
	4	Amber	2112			Coolant Temperature 2 Sensor Circuit - Voltage Below Normal, or Shorted to Low Source	
	16	Amber	2113			Coolant Temperature 2 - Data Valid but Above Normal Operational Range - Moderately Severe Level	

ENGINE ERROR CODES

J1939 SPN	J1939 FMI	Lamp color	Cummins code	J1939 SPN	Cummins description	Category	CDM error message
91	0	Red	148		Accelerator Pedal Position	Accelerator Pedal or Lever Position Sensor Circuit – Abnormal Frequency, Pulse Width, or Period	Accelerator Pedal Position
	1	Red	147			Accelerator Pedal or Lever Position Sensor Circuit – Abnormal Frequency, Pulse Width, or Period	
	2	Red	1242	154		Accelerator Pedal or Lever Position Sensor 1 and 2 - Data Erratic, Intermittent, or Incorrect	
	3	Red	131	154		Accelerator Pedal or Lever Position Sensor Circuit - Voltage Above Normal, or Shorted to High Source	
	4	Red	132	154		Accelerator Pedal or Lever Position Sensor Circuit - Voltage Below Normal, or Shorted to Low Source	
	8	154		154	Throttle Position Sensor	Abnormal frequency, pulse width, or period	
	12	154		154		Bad Device or component	
	19	Red	287		Accelerator Pedal Position	SAE J1939 Multiplexing Accelerator Pedal or Lever Sensor System Error - Received Network Data In Error	
94	1	Amber	2216		Fuel Delivery Pressure	Fuel Pump Delivery Pressure - Data Valid but Above Normal Operational Range – Moderately Severe Level	Fuel Delivery Pressure
	2	Amber	268			Fuel Pressure Sensor Circuit - Data Erratic, Intermittent, or Incorrect	
	18	Amber	2215			Fuel Pump Delivery Pressure - Data Valid but Below Normal Operational Range - Moderately Severe Level	

ENGINE ERROR CODES

J1939 SPN	J1939 FMI	Lamp color	Cummins code	J1939 SPN	Cummins description	Category	CDM error message
97	3	Amber	428		Water in Fuel Indicator	Water in Fuel Sensor Circuit - Voltage Above Normal, or Shorted to High Source	Water in Fuel Indicator
	4	Amber	429			Water in Fuel Sensor Circuit - Voltage Below Normal, or Shorted to Low Source	
	15	Maint	418			Water in Fuel Indicator High - Data Valid but Above Normal Operational Range – Least Severe Level	
100	1	Red	415	157	Engine Oil Pressure	Oil Pressure Low – Data Valid but Below Normal Operational Range - Most Severe Level	Engine Oil Pressure
	2	Amber	435			Oil Pressure Sensor Circuit - Data Erratic, Intermittent, or Incorrect	
	3	Amber	135	157		Oil Pressure Sensor Circuit - Voltage Above Normal, or Shorted to High Source	
	4	Amber	141	157		Oil Pressure Sensor Circuit - Voltage Below Normal, or Shorted to Low Source	
	10	157		157		Engine oil pressure sensor 5V supply connection open circuit	
	17	N/A		157		Low oil pressure - WARNING	
	18	Amber	143	360		Oil Pressure Low – Data Valid but Below Normal Operational Range - Moderately Severe Level	

ENGINE ERROR CODES

J1939 SPN	J1939 FMI	Lamp color	Cummins code	J1939 SPN	Cummins description	Category	CDM error message
102	2	Amber	433		Boost Pressure	Intake Manifold Pressure Sensor Circuit - Data Erratic, Intermittent, or Incorrect	Boost Pressure
	3	Amber	122	197		Intake Manifold Pressure Sensor Circuit – Voltage Above Normal, or Shorted to High Source	
	4	Amber	123	197		Intake Manifold Pressure Sensor Circuit – Voltage Below Normal, or Shorted to Low Source	
	10	Amber		197		Intake Manifold Pressure Sensor Circuit – Abnormal Rate of Change	
103	10	Amber	2345		Turbocharger 1 Speed	Turbocharger speed invalid rate of change detected - Abnormal Rate of Change	Turbocharger 1 Speed
	16	Amber	595			Turbocharger #1 Speed High - Data Valid but Above Normal Operational Range – Moderately Severe Level	
	18	Amber	687			Turbocharger #1 Speed Low - Data Valid but Below Normal Operational Range – Moderately Severe Level	

ENGINE ERROR CODES

J1939 SPN	J1939 FMI	Lamp color	Cummins code	J1939 SPN	Cummins description	Category	CDM error message
105	0	Red	155		Intake Manifold #1 Temp	Intake Manifold Air Temperature High – Data Valid but Above Normal Operational Range - Most Severe Level	Intake Manifold #1 Temperature
	3	Amber	153	133		Intake Manifold Air Temperature Sensor Circuit - Voltage Above Normal, or Shorted to High Source	
	4	Amber	154	133		Intake Manifold Air Temperature Sensor Circuit - Voltage Below Normal, or Shorted to Low Source	
	15	None	2964	133		Intake Manifold Temperature High - Data Valid but Above Normal Operational Range - Least Severe Level	
	16	Amber	488	133	Intake Manifold	Intake Manifold 1 Temperature - Data Valid but Above Normal Operational Range - Moderately Severe Level	
106	3	135		1785	Inlet Manifold Pressure Sensor	Voltage above normal or shorted high	Inlet Manifold Pressure Sensor
	4	135		1785		Voltage below normal or shorted low	
	10	135		1785		Inlet Manifold Pressure Sensor 5V supply connection open circuit	
107	15	Amber		151	Air Filter Restriction	High Air Filter Restriction	Air Filter
108	2	Amber	295		Barometric Pressure	Barometric Pressure Sensor Circuit - Data Erratic, Intermittent, or Incorrect	Barometric Pressure
	3	Amber	221			Barometric Pressure Sensor Circuit – Voltage Above Normal, or Shorted to High Source	
	4	Amber	222			Barometric Pressure Sensor Circuit – Voltage Below Normal, or Shorted to Low Source	

ENGINE ERROR CODES

J1939 SPN	J1939 FMI	Lamp color	Cummins code	J1939 SPN	Cummins description	Category	CDM error message
109	3	Amber	231		Coolant Pressure	Coolant Pressure Sensor Circuit - Voltage Above Normal, or Shorted to High Source	Coolant Pressure
	4	Amber	232			Coolant Pressure Sensor Circuit - Voltage Below Normal, or Shorted to Low Source	
	18	Amber	233			Coolant Pressure - Data Valid but Below Normal Operational Range - Moderately Severe Level	
110	0	Red	151	168	Engine Coolant Temperature	Coolant Temperature Low - Data Valid but Above Normal Operational Range - Most Severe Level	Engine Coolant Temperature
	2	Amber	334			Coolant Temperature Sensor Circuit – Data Erratic, Intermittent, or Incorrect	
	3	Amber	144	168		Coolant Temperature Sensor Circuit – Voltage Above Normal, or Shorted to High Source	
	4	Amber	145	168		Coolant Temperature Sensor Circuit – Voltage Below Normal, or Shorted to Low Source	
	15	None	2963	168		Engine Coolant Temperature High - Data Valid but Above Normal Operational Range - Least Severe Level	
	16	Amber	146	168		Coolant Temperature High - Data Valid but Above Normal Operational Range - Moderately Severe Level	

ENGINE ERROR CODES

J1939 SPN	J1939 FMI	Lamp color	Cummins code	J1939 SPN	Cummins description	Category	CDM error message
157	0	Red	449	159	Injector Metering Rail 1 Pressure	Fuel Pressure High - Data Valid but Above Normal Operational Range – Moderately Severe Level	Injector Metering Rail 1 Pressure
	1	Amber	2249	159		Injector Metering Rail 1 Pressure - Data Valid but Below Normal Operational Range - Most Severe Level	
	2	Amber	554			Fuel Pressure Sensor Error - Data Erratic, Intermittent, or Incorrect	
	3	Amber	451	159		Injector Metering Rail #1 Pressure Sensor Circuit - Voltage Above Normal, or Shorted to High Source	
	4	Amber	452	159		Injector Metering Rail #1 Pressure Sensor Circuit - Voltage Below Normal, or Shorted to Low Source	
	16	Amber	553			Injector Metering Rail #1 Pressure High – Data Valid but Above Normal Operational Range - Moderately Severe Level	
	18	Amber	559			Injector Metering Rail #1 Pressure Low – Data Valid but Below Normal Operational Range - Moderately Severe Level	
158	2	439		439	Keyswitch	Data erratic, intermittent, or incorrect	Keyswitch
166	2	None	951		Cylinder Power	Cylinder Power Imbalance Between Cylinders - Data Erratic, Intermittent, or Incorrect	Cylinder Power

ENGINE ERROR CODES

J1939 SPN	J1939 FMI	Lamp color	Cummins code	J1939 SPN	Cummins description	Category	CDM error message
167	1	Red	598		Alternate Potential (voltage)	Electrical Charging System Voltage Low – Data Valid but Below Normal Operational Range - Most Severe Level	Alternator Potential (voltage)
	16	Amber	596			Electrical Charging System Voltage High – Data Valid but Above Normal Operational Range - Moderately Severe Level	
	18	Amber	597			Electrical Charging System Voltage Low – Data Valid but Below Normal Operational Range - Moderately Severe Level	
168	0	422		422	ECM Battery Power	Excessive battery power	ECM Battery Power
	1					Low battery power	
	2					Intermittent	
	16	Amber	442		Electrical Potential (Voltage)	Battery #1 Voltage High - Data Valid but Above Normal Operational Range – Moderately Severe Level	
	18	Amber	441		Electrical Potential (Voltage)	Battery #1 Voltage Low - Data Valid but Below Normal Operational Range – Moderately Severe Level	
171	3	Amber	249		Ambient Air Temperature	Ambient Air Temperature Sensor Circuit - Voltage Above Normal, or Shorted to High Source	Ambient Air Temperature
	4	Amber	256			Ambient Air Temperature Sensor Circuit - Voltage Below Normal, or Shorted to Low Source	
173	15	Amber		185	High Exhaust Temperature	High Exhaust Temperature	Exhaust Temp

ENGINE ERROR CODES

J1939 SPN	J1939 FMI	Lamp color	Cummins code	J1939 SPN	Cummins description	Category	CDM error message
174	3	Amber	263		Fuel Temperature	Engine Fuel Temperature Sensor 1 Circuit - Voltage Above Normal, or Shorted to High Source	Fuel Temperature
	4	Amber	265			Engine Fuel Temperature Sensor 1 Circuit - Voltage Below Normal, or Shorted to Low Source	
	16	Amber	261			Engine Fuel Temperature - Data Valid but Above Normal Operational Range - Moderately Severe Level	
175	0	Red	214		Oil Temperature	Engine Oil Temperature - Data Valid but Above Normal Operational Range - Most Severe Level	Oil Temperature
	2	Amber	425			Engine Oil Temperature -Data Erratic, Intermittent, or Incorrect	
	3	Amber	212			Engine Oil Temperature Sensor 1 Circuit - Voltage Above Normal, or Shorted to High Source	
	4	Amber	213			Engine Oil Temperature Sensor 1 Circuit - Voltage Below Normal, or Shorted to Low Source	
190	0	Red	234		Engine Speed	Engine Speed High - Data Valid but Above Normal Operational Range - Most Severe Level	Engine Speed
	2	Amber	689			Primary Engine Speed Sensor Error – Data Erratic, Intermittent, or Incorrect	
	8	141		141	Speed/Timing Sensor	Abnormal signal frequency	
	15	N/A		141	Engine Speed	Engine Overspeed - WARNING	
251	2	Maint	319		Real Time Clock Power	Real Time Clock Power Interrupt - Data Erratic, Intermittent, or Incorrect	Real Time Clock Power

ENGINE ERROR CODES

J1939 SPN	J1939 FMI	Lamp color	Cummins code	J1939 SPN	Cummins description	Category	CDM error message
558	2	Amber	431	91	Accelerator Pedal Low Idle Switch	Accelerator Pedal or Lever Idle Validation Circuit - Data Erratic, Intermittent, or Incorrect	
	2	155		774	Secondary Throttle Position Sensor	Data erratic, intermittent, or incorrect	
	4	Amber	55		Accelerator Pedal Low Idle Switch	Accelerator Pedal or Lever Idle Validation Circuit - Voltage Below Normal, or Shorted to Low Source	
	13	Red	432		Accelerator Pedal Low Idle Switch	Accelerator Pedal or Lever Idle Validation Circuit - Out of Calibration	
611	3	Amber	2185		System Diagnostic Code # 1	Sensor Supply Voltage #4 Circuit – Voltage Above Normal, or Shorted to High Source	Accelerator Pedal Low Idle Switch
	4	Amber	238		System Diagnostic Code # 1	Sensor Supply Voltage #3 Circuit – Voltage Below Normal, or Shorted to Low Source	
	16	Amber	2292		Fuel Inlet Meter Device	Fuel Inlet Meter Device - Data Valid but Above Normal Operational Range - Moderately Severe Level	
	18	Amber	2293		Fuel Inlet Meter Device	Fuel Inlet Meter Device flow demand lower than expected - Data Valid but Below Normal Operational Range - Moderately Severe Level	
	31	Amber	757		Electronic Control Module	Electronic Control Module data lost - Condition Exists	Electronic Control Module
612	2	Red	115		System Diagnostic Code # 2	Engine Speed / Position Sensor Circuit lost both of two signals from the magnetic pickup sensor - Data Erratic, Intermittent, or incorrect	System Diagnostic Code # 2

ENGINE ERROR CODES

J1939 SPN	J1939 FMI	Lamp color	Cummins code	J1939 SPN	Cummins description	Category	CDM error message
627	2	Amber	434		Power Supply	Power Lost without Ignition Off - Data Erratic, Intermittent, or Incorrect	Power Supply
629	12	Red	111		Controller #1	Engine Control Module Critical internal failure - Bad intelligent Device or Component	Controller #1
630	2	Amber	341	527	Calibration Memory	Engine Control Module data lost - Data Erratic, Intermittent, or Incorrect	Calibration Memory
	13	Red	342			Electronic Calibration Code Incompatibility - Out of Calibration	
	31	Amber	2217			ECM Program Memory (RAM) Corruption - Condition Exists	
631	2	415		415	Engine Software	Data incorrect	Engine software
633	31	Amber	2311		Fuel Control Valve #1	Fueling Actuator #1 Circuit Error – Condition Exists	Fuel Control Valve #1
637	11	143		143	Primary To Secondary Speed Signal	Calibration fault	Primary to secondary speed signal
639	9	Amber	285	247	SAE J1939 Datalink	SAE J1939 Multiplexing PGN Timeout Error - Abnormal Update Rate	SAE J1939 Datalink
	13	Amber	286			SAE J1939 Multiplexing Configuration Error – Out of Calibration	
1484	31	None	211		J1939 Error	Additional Auxiliary Diagnostic Codes logged - Condition Exists	J1939 Error
641	3	Amber	2385		Variable Geometry Turbocharger	VGT Actuator Driver Circuit - Voltage Above Normal, or Shorted to High Source	Variable Geometry Turbocharger
	4	Amber	2384			VGT Actuator Driver Circuit - Voltage Below Normal, or Shorted to Low Source	
646	5	177		526	Turbo Wastegate	Solenoid Current Low	Turbo Wastegate
	6	177		526		Solenoid Current High	

ENGINE ERROR CODES

J1939 SPN	J1939 FMI	Lamp color	Cummins code	J1939 SPN	Cummins description	Category	CDM error message
651	2			111	Cylinder #1 Injector	Cylinder # 1 Injector Erratic, Intermittent or Incorrect	Injector Cylinder #01
	5	Amber	322	1		Injector Solenoid Cylinder #1 Circuit – Current Below Normal, or Open Circuit	
	6	N/A		1		Injector Current High	
	7	Amber	1139	1		Injector Cylinder #1 - Mechanical System Not Responding Properly or Out of Adjustment	
652	2			112	Cylinder #2 Injector	Cylinder # 2 Injector Erratic, Intermittent or Incorrect	Injector Cylinder #02
	5	Amber	331	2		Injector Solenoid Cylinder #2 Circuit – Current Below Normal, or Open Circuit	
	6	N/A		2		Injector Current High	
	7	Amber	1141	2		Injector Cylinder #2 - Mechanical System Not Responding Properly or Out of Adjustment	
653	2			113	Cylinder #3 Injector	Cylinder # 3 Injector Erratic, Intermittent or Incorrect	Injector Cylinder #03
	5	Amber	324	3		Injector Solenoid Cylinder #3 Circuit – Current Below Normal, or Open Circuit	
	6	N/A		3		Injector Current High	
	7	Amber	1142	3		Injector Cylinder #3 - Mechanical System Not Responding Properly or Out of Adjustment	
654	2			114	Cylinder #4 Injector	Cylinder # 4 Injector Erratic, Intermittent or Incorrect	Injector Cylinder #04
	5	Amber	332	4		Injector Solenoid Cylinder #4 Circuit – Current Below Normal, or Open Circuit	
	6	N/A		4		Injector Current High	
	7	Amber	1143	4		Injector Cylinder #4 - Mechanical System Not Responding Properly or Out of Adjustment	

ENGINE ERROR CODES

J1939 SPN	J1939 FMI	Lamp color	Cummins code	J1939 SPN	Cummins description	Category	CDM error message
655	2			115	Cylinder #5 Injector	Cylinder # 5 Injector Erratic, Intermittent or Incorrect	Injector Cylinder #05
	5	Amber	323	5		Injector Solenoid Cylinder #5 Circuit – Current Below Normal, or Open Circuit	
	6	N/A		5		Injector Current High	
	7	Amber	1144	5		Injector Cylinder #5 - Mechanical System Not Responding Properly or Out of Adjustment	
656	2			116	Cylinder #6 Injector	Cylinder # 6 Injector Erratic, Intermittent or Incorrect	Injector Cylinder #06
	5	Amber	325	6		Injector Solenoid Cylinder #6 Circuit – Current Below Normal, or Open Circuit	
	6	N/A		6		Injector Current High	
	7	Amber	1145	6		Injector Cylinder #6 - Mechanical System Not Responding Properly or Out of Adjustment	
676	5	199		199	Glow Plug Start Aid Relay	Current Low	Glow Plug Start Aid relay
	6	199				Current High	
677	3	Amber	584		Starter Solenoid Lockout Relay Driver Circuit	Starter Relay Circuit - Voltage Above Normal, or Shorted to High Source	Starter Solenoid Lockout Relay Driver Circuit
	4	Amber	585			Starter Relay Circuit - Voltage Below Normal, or Shorted to Low Source	
678	3	517		517	8V DC Supply	ECM 8V DC supply – voltage above normal or shorted high	8V DC supply
	4	517				ECM 8V DC supply – voltage below normal or shorted low	

ENGINE ERROR CODES

J1939 SPN	J1939 FMI	Lamp color	Cummins code	J1939 SPN	Cummins description	Category	CDM error message
723	2	Amber	753		Engine Speed Sensor #2	Engine Speed/Position #2 Camshaft sync error -Data Erratic, Intermittent, or Incorrect	Engine Speed Sensor #2
	7	Amber	731			Engine Speed/Position #2 mechanical misalignment between camshaft and crankshaft sensors - Mechanical System Not Responding Properly or Out of Adjustment	
	8	142		142	Secondary Engine Speed Sensor	Abnormal signal frequency	
729	3	Amber	2426		Inlet Air Heater Driver #1	Intake Air Heater #1 Circuit - Voltage above Normal, or Shorted to High Source	Grid Heater
	4		2427			Intake Air Heater #1 Circuit - Voltage above Normal, or Shorted to High Source	
1043	3	Amber	387		Internal Sensor Voltage Supply	Accelerator Pedal or Lever Position Sensor Supply Voltage Circuit - Voltage Above Normal, or Shorted to High Source	Internal Sensor Voltage Supply
	4	Amber	284			Engine Speed/Position Sensor (Crankshaft) Supply Voltage Circuit - Voltage Below Normal, or Shorted to Low Source	
1075	3	Amber	2265		Electric Lift Pump For Engine Fuel	Fuel Priming Pump Control Signal Circuit – Voltage Above Normal, or Shorted to High Source	Electric Lift Pump for Engine Fuel
	4	Amber	2266			Fuel Priming Pump Control Signal Circuit – Voltage Below Normal, or Shorted to Low Source	

ENGINE ERROR CODES

J1939 SPN	J1939 FMI	Lamp color	Cummins code	J1939 SPN	Cummins description	Category	CDM error message	
1079	3	Amber	386	516	5 Volts DC Supply	Sensor Supply Voltage #1 Circuit – Voltage Above Normal, or Shorted to High Source	5 Volts DC Supply	
	4	Amber	352	516		Sensor Supply Voltage #1 Circuit – Voltage Below Normal, or Shorted to Low Source		
1080	3	Amber	227			Sensor Supply Voltage #2 Circuit – Voltage Above Normal, or Shorted to High Source		
	4	Amber	187			Sensor Supply Voltage #2 Circuit – Voltage Below Normal, or Shorted to Low Source		
1136	3	Amber	697		Sensor Circuit - Voltage	ECM Internal Temperature Sensor Circuit - Voltage Above Normal, or Shorted to High Source	Sensor Circuit - Voltage	
	4	Amber	698			ECM Internal Temperature Sensor Circuit - Voltage Below Normal, or Shorted to Low Source		
1172	3	Amber	691		Turbocharger #1 Compressor Inlet Temperature	Turbocharger #1 Compressor Inlet Temperature Sensor Circuit – Voltage Above Normal, or Shorted to High Source	Turbocharger #1 Compressor Inlet Temperature	
	4	Amber	692			Turbocharger #1 Compressor Inlet Temperature Sensor Circuit – Voltage Below Normal, or Shorted to Low Source		
1188	5	Amber		177	Turbo Wastegate	Turbo Wastegate Drive Current Below Normal	Turbo Wastegate	
	6					Turbo Wastegate Drive Current Above Normal		
	7					Turbo Wastegate not responding		

ENGINE ERROR CODES

J1939 SPN	J1939 FMI	Lamp color	Cummins code	J1939 SPN	Cummins description	Category	CDM error message
1347	3	Amber	272		Fuel Pump Pressurizing Assembly #1	High Fuel Pressure Solenoid Valve Circuit – Voltage Above Normal, or Shorted to High Source	Fuel Rail Pump
	4	Amber	271			High Fuel Pressure Solenoid Valve Circuit – Voltage Below Normal, or Shorted to Low Source	
	5	162		162	Fuel Rail Pump	Output current low	
	6	162		162		Output current high	
	7	Amber	281	162	Fuel Pump Pressurizing Assembly #1	High Fuel Pressure Solenoid Valve #1 – Mechanical System Not Responding Properly or Out of Adjustment	
1378	31	Maint	649		Engine Oil Change Interval	Change Lubricating Oil and Filter – Condition Exists	Engine Oil Change Interval
1388	3	Amber	297		Auxiliary Pressure	Auxiliary Pressure Sensor Input # 2 Circuit - Voltage Above Normal, or Shorted to High Source	Auxiliary Pressure
	4	Amber	298			Auxiliary Pressure Sensor Input # 2 Circuit - Voltage Below Normal, or Shorted to Low Source	
	14	Red	296			Auxiliary Pressure Sensor Input 1 - Special Instructions	
1563	2	Amber	1256		Control Module Identification Input State	Control Module Identification Input State Error - Data Erratic, Intermittent, or Incorrect	Control Module Identification Input State
2623	3	Amber	1239		Accelerator Pedal Position	Accelerator Pedal or Lever Position Sensor 2 Circuit - Voltage Above Normal, or Shorted to High Source	Accelerator Pedal Position
	4	Amber	1241			Accelerator Pedal or Lever Position Sensor 2 Circuit - Voltage Below Normal, or Shorted to Low Source	

ENGINE ERROR CODES

J1939 SPN	J1939 FMI	Lamp color	Cummins code	J1939 SPN	Cummins description	Category	CDM error message
2629	15	None	2347		System Diagnostic Code #1	Turbocharger Compressor Outlet Temperature (Calculated) - Data Valid but Above Normal Operational Range – Least Severe Level	System Diagnostic Code #1
2789	15	None	2346		System Diagnostic Code #1	Turbocharger Turbine Inlet Temperature (Calculated) - Data Valid but Above Normal Operational Range – Least Severe Level	System Diagnostic Code #1
2981	3	Amber	2115		Coolant Pressure	Coolant Pressure 2 Circuit - Voltage Above Normal, or Shorted to High Source	Coolant Pressure
	4	Amber	2116			Coolant Pressure 2 Circuit -Voltage Below Normal, or Shorted to Low Source	
	18	Amber	2117			Coolant Pressure 2 - Data Valid but Below Normal Operational Range - Moderately Severe Level	

2 CDM Error Codes

NOTE: In the case of dual codes being shown for an item (primarily the solenoid valves), the first code indicates a SHORT CIRCUIT condition, while the second code indicates an OPEN CIRCUIT condition. IE. E41 would be a SHORT in the Reel Aft solenoids (P55, P59), while E141 would indicate an OPEN circuit.

Codes		CDM display	Description
E1			
E2		RTCH NOT ALLOWED	Return To Cut activated with the header off.
E3		CDM CAN BUS ERROR	Canbus error with CDM. Check electrical connections.
E4		HDR DRV NOT ALLOWED	Header engage switch activated while in engine-forward.
E5		CHECK HEADER ID	Header ID change has been detected while the header was engaged
E6		TEMP GAUGE SHORT	Wiring / connection problem.
E7		SPEED STICK SHORT	Wiring / connection problem.
E8		HEADER ENABLE SHORT	Wiring / connection problem.
E9		WCM ENABLE SHORT	Wiring / connection problem.
E10		CDM INTERNAL ERROR	Internal hardware or software problem.
E11		CDM POWER UP	CDM Module did not power up correctly.
E12		WCM POWER UP	WCM Module did not power up correctly.
E13		FUEL SOLENOID	WCM Fuel solenoid output fault detected.
E14			
E15		KNIFE DRIVE PWM P68	Knife Drive – PWM solenoid P68 drive fault detected
E16		DRAPER DRIVE PWM P69	Draper Drive – PWM solenoid P69 drive fault detected
E17		REEL DRIVE PWM P70	Reel Drive – PWM solenoid P70 drive fault detected
E18			
E19			
E20			
E21	E121	REVERSER P106	Reverser Solenoid P106 fault detected
E22			
E23	E123	REVERSER	Reverser – Solenoid (P65, P66, P67) fault detected
E24	E124	DECK SHFT RIGHT P95	Right Deck Shift solenoid P95 fault detected
E25	E125	DECK SHFT LEFT P96	Left Deck Shift solenoid P96 fault detected
E26	E126	DWA UP	DWA Raise solenoid P72, P73 fault detected
E27	E127	DWA DOWN	DWA Lower solenoid P72, P73, fault detected circuit
E28	E128	TILT RETRACT	Header Tilt Retract solenoid P54, fault detected
E29	E129	TILT EXTEND	Header Tilt Extend solenoid P53, P54, fault detected
E30	E130	4 WAY VALVE P62	4 Way valve solenoid P62 fault detected

CDM ERROR CODES

Codes		CDM display	Description
E31	E131	BYPASS VALVE P52	Bypass valve solenoid P52 fault detected
E32	E132	HEADER UP/DOWN P57	Header up / down solenoid P57, fault detected
E33	E133	SCREEN CLEANERS	Screen cleaner output fault detected
E34	E134	RIGHT STOP LAMP	Right stop lamp output fault detected
E35	E135	LEFT STOP LAMP	Left stop lamp output fault detected
E36	E136	RIGHT TURN LAMP	Right turn lamp output fault detected
E37	E137	LEFT TURN LAMP	Left turn lamp output fault detected
E38	E138	MAIN DRIVE	Main header drive solenoid P71 fault detected
E39	E139	LOW RANGE P61	Low range solenoid P61 fault detected
E40	E140	HIGH RANGE P60	High range solenoid P60 fault detected
E41	E141	REEL AFT	Reel aft solenoid P55, P59, fault detected
E42	E142	REEL FORE	Reel fore solenoid P55, P59, fault detected
E43	E143	REEL UP/DOWN P58	Reel up / down solenoid P58, P52, P62 fault detected
E44	E144	FLOAT RHS P64	RHS float solenoid P64, fault detected
E45	E145	FLOAT LHS P63	LHS float solenoid P63, fault detected
E46		SENSOR VOLTS HIGH	WCM's 9V Sensor voltage output high. (wire 5)
E47		SENSOR VOLTS LOW	WCM's 9V Sensor voltage output low. (wire 5)
E48		WCM OVER TEMP	WCM over temp fault.
E49		WCM LOW TEMP	WCM low temp fault.
E50		BATT+ OUT OF RANGE	System voltage above 15.5 VDC.
E51		DISK DRIVE PWM P68	Disk header drive solenoid P68 fault detected
E52			
E53	E153	REVERSER P71	
E54			
E55		DISK SPD OVERLOAD	Low disk speed detected < setpoint
Error codes E56 to E63 not allocated			
E64			
E65		KNIFE SPD OVERLOAD	Low knife speed detected < setpoint
E66		### LOW VOLTS	Low system voltage <11.5 VDC
E67		TRANS OIL PRESSURE	Supercharge pressure low (switch 202 on hydraulic schematic)
E68		HYDRAULIC OIL HOT	Oil Tank temp >230°F. / 110°C.
E69		ENGINE AIR FILTER	Engine air filter plugged
E70		HYDRAULIC FILTER	Hydraulic filter pressure too high. (switch 227 on hydraulic schematic)
E71		LOW HYDRAULIC OIL	Low hydraulic oil level sensor tripped. (switch 225 on hydraulic schematic)

CDM ERROR CODES

Codes	CDM display	Description
E72	##.# HIGH VOLTS	System voltage above 15.5 VDC
Error codes E73 to E100 not allocated		
E101	SPI ERROR	J1939 Can Error
E102	CAN ERROR	J1939 Can Error
E103	EEPROM READ ERROR	Internal Error
E104	EEPROM WRITE ERROR	Internal Error
E105	TEMP SENSOR ERROR	Internal Temperature Sensor Error.