

	Comm	nunication Data Fault
	Inform	nation Fault
		ACM2.1 FAULT CODE
SPN	FMI	DESCRIPTION GHG14
108	13	Ambient Air Pressure Signal Not
		Available via CAN
110	9	Coolant Temperature Signal Not
		Available via CAN
158	7	ACM Power Down - Key Off Purge
		Cycle
168	0	Battery Voltage High
168	1	Battery Voltage Low
171	13	Ambient Air Temperature Signal Not
100	0	Available via CAN
190	9	Engine Speed Signal Not Available via
513	9	CAN Actual Targua Signal Not Available via
313	9	Actual Torque Signal Not Available via CAN
625	2	CPC Message not Received or
023	2	Stopped Arriving
625	9	PT-CAN Heartbeat Missing
1033	2	ACM2.1 engine hours data erratic,
1033	۷	intermittent or incorrect
1761	1	DEF Tank Level 0 - Empty (Speed
1701	•	Limited)
1761	3	DEF Tank Level Sensor Circuit Failed
		High
1761	4	DEF Tank Level Sensor Circuit Failed
		Low
1761	9	DEF tank level signal not available
1761	18	DEF Tank Level 1 - Empty
1761	31	DEF Tank Level 3 - Low
3031	3	DEF Tank Temperature Sensor Circuit
		Failed High
3031	4	DEF Tank Temperature Sensor Circuit
0.00		Failed Low
3031	9	DEF Tank Temperature Signal Not
0001	10	Available via CAN
3031	10	Reductant Tank Temperature Sensor
2021	10	Circuit Range/Performance
3031	19 2	DEF Tank Temperature Error (CAN)
3056	2	SCR Inlet NOX Sensor - Error

SPN	FMI	ACM2.1 FAULT CODE DESCRIPTION GHG14
3057	2	SCR Outlet NOX Sensor - Error
3216	3	SCR Inlet NOX Sensor Circuit Failed
0210	Ü	High
3216	4	SCR Inlet NOX Sensor Circuit Failed
3210	4	Low
221/	10	=-:
3216	13	SCR Inlet NOX Sensor Signal Not
	_	Available
3223	7	NOX RAW Sensor not ready after
		dewpoint enable check
3226	2	SCR Outlet NOX Sensor - Drift
3226	3	SCR Outlet NOX Sensor Circuit Failed
		High
3226	4	SCR Outlet NOX Sensor Circuit Failed
		Low
3226	13	SCR Outlet NOX Sensor Signal Not
		Available
3226	20	NOX Outlet Sensor Drift Low
3226	21	NOX Outlet Sensor Drift High
3236	9	Exhaust Mass Signal Not Available via
3230	7	CAN
2242	2	
3242	3	DOC Inlet Temperature Circuit Failed
		High
3242	4	DOC Inlet Temperature Circuit Failed
		Low
3242	8	DOC Inlet Temperature - Signal Spike
3242	17	Diesel Oxidation Catalyst (DOC) Inlet
		Temperature Out Of Range Low
		Preventing HC Dosing
3242	20	DOC Temperature Drift - Inlet High or
		Outlet Low
3246	0	DPF Outlet Temperature Very High
3246	3	DPF Outlet Temperature Circuit Failed
02 10	- U	High
3246	4	DPF Outlet Temperature Circuit Failed
32 10	-	Low
3246	8	DPF Outlet Temperature - Signal Spike
3246	0 15	
		DPF Outlet Temperature - High
3246	20	DPF Outlet/SCR Inlet Temperature -
0044	0.6	Abnormal
3246	21	DOC Outlet Temperature Sensor -
		Plausibility Error
3250	0	DOC Outlet Temperature Very High
3250	3	DOC Outlet Temperature Circuit Failed
		High
3250	4	DOC Outlet Temperature Circuit Failed
		Low

SPN	FMI	ACM2.1 FAULT CODE DESCRIPTION GHG14
3250	7	DOC Outlet Temperature Response
0050	0	Error
3250	8	DOC Outlet Temperature - Signal
2250	15	Spike DOC Outlet Temperature Lligh
3250 3250	20	DOC Outlet Temperature - High DOC Temperature Drift - Inlet Low or
3230	20	Outlet High
3250	31	Abnormal DOC Temperature Rise 1
3251	0	DPF Pressure Out of Range Very High
3251	20	DOC Inlet Pressure Sensor - Not
		Plausible
3251	21	DOC Inlet / Outlet Pressure Not
		Plausible
3361	3	DEF Dosing Valve Circuit Failed High
3361	4	DEF Dosing Valve Circuit Failed Low
3361	5	DEF Dosing Valve Circuit Failed Open
3361	31	Dosing Unit Error
3363	0	DEF Tank Temperature - High
3363	1	DEF Tank Temperature - Low
3363	3	DEF Coolant Valve Circuit Failed High
3363	4	DEF Coolant Valve Circuit Failed Low
3363	5	DEF Coolant Valve Circuit Failed Open
3364	2	Improper DEF Quality
3490	3	DEF Purge Lamp Circuit Failed High
3490 3490	4 5	DEF Purge Lamp Circuit Failed Low DEF Purge Lamp Circuit Failed Open
3509	3	ACM Sensor Supply 1 Short to Battery
3509	4	ACM Sensor Supply 1 Short to Battery ACM Sensor Supply 1 Short to Ground
3510	3	ACM Sensor Supply 2 Short to Battery
3510	4	ACM Sensor Supply 2 Short to Buttery ACM Sensor Supply 2 Short to Ground
3517	19	DEF Tank Signal Erratic via CAN
3556	0	Regen Temperature - Out of Range
		High
3556	1	Regen Temperature - Out of Range
		Low
3556	18	DOC Outlet Temp Low (Low Temp
		Regen)
3597	3	High Side Digital Output 1 Circuit
0567		Failed High
3597	4	High Side Digital Output 1 Circuit
2500	2	Failed Low
3599	3	High Side Digital Output 3 Circuit
3599	4	Failed High
2044	4	High Side Digital Output 3 Circuit Failed Low
3609	3	DOC Inlet Pressure Circuit Failed High
3007	J	DOG IIIICE FTESSUIE CIICUIL FAIICU FIIGH

		ACM2.1 FAULT CODE
SPN	FMI	DESCRIPTION GHG14
3609	4	DOC Inlet Pressure Circuit Failed Low
3610	2	DPF Outlet Pressure Sensor - Not
	_	Plausible
3610	3	DPF Outlet Pressure Circuit Failed
		High
3610	4	DPF Outlet Pressure Circuit Failed Low
3711	31	Parked Regen Failed - DOC Temp In
		Low Preventing Dosing
3713	31	Parked Regen Failed - DOC Temp
0740		Out, Not Reaching Target Temp
3719	0	Soot Level Very High
3719	15	DPF Zone 3 Condition
3719	16	Soot Level High
3719	31	DPF Zone 2 Condition
3720	15	DPF Ash Clean Request
3936	18	DPF Pressure - Out of Range Low
4332	31	DOC inlet temperature out of range low
100		preventing HC dosing
4334	3	DEF Pressure Sensor Circuit Failed
4004		High
4334	4	DEF Pressure Sensor Circuit Failed
4054	2	Low
4354	3	SCR Line Heater #1 Circuit Failed High
4354	4	SCR Line Heater #1 Circuit Failed Low
4354	5	SCR Line Heater #1 Open Circuit
4355	3	SCR Line Heater #2 Circuit Failed High
4355	4	SCR Line Heater #2 Circuit Failed Low
4355	5	SCR Line Heater #2 Circuit Failed
4257	2	Open
4356	3	SCR Line Heater #3 Circuit Failed High
4356	4	SCR Line Heater #3 Circuit Failed Low
4356	5	SCR Line Heater #3 Circuit Failed
4057	2	Open
4357	3	SCR Line Heater #4 Circuit Failed High
4357	4	SCR Line Heater #4 Circuit Failed Low
4357	5	SCR Line Heater #4 Circuit Failed
10/0	0	Open
4360	3	SCR Inlet Temperature Sensor Circuit
10/5		Failed High
4360	4	SCR Inlet Temperature Sensor Circuit
10/0	0	Failed Low
4360	8	SCR Inlet Temperature - Signal Spike
4360	10	SCR Inlet Temperature Sensor -
10/2	4.5	Rationality Error
4360	15	SCR Inlet Temperature High

		ACM2.1 FAULT CODE
SPN	FMI	DESCRIPTION GHG14
4360	20	SCR Inlet Temperature Sensor Drift
		High in Range
4363	0	SCR Outlet Temperature High
4363	3	SCR Outlet Temperature Sensor
1262	4	Circuit Failed High
4363	4	SCR Outlet Temperature Sensor Circuit Failed Low
4363	8	SCR Outlet Temperature - Signal
4303	U	Spike
4363	20	SCR Temperature Drift - Inlet
		Low/Outlet High
4364	1	SCR NOX Conversion Efficiency Very
		Low
4364	18	SCR NOX Conversion Efficiency Low
4374	0	Under pressurized DEF system
4374	1	Over pressurized DEF system
4374	3	pump speed signal over measurement
4374	4	range
43/4	4	pump speed signal below measurement range
4374	19	DEF system is not being controlled as
7377	17	expected
4375	3	DEF Pump Circuit Failed High
4375	4	DEF Pump Circuit Failed Low
4375	5	DEF Pump Circuit Failed Open
5016	3	High Side Digital Output 4 Circuit
		Failed High
5016	4	High Side Digital Output 4 Circuit
5017	3	Failed Low
5017	3	High Side Digital Output 5 Circuit Failed High
5017	4	High Side Digital Output 5 Circuit
3017	7	Failed Low
5246	0	Regulatory Fault Ignored - Final Action
		(Speed Limit)
5246	15	Regulatory Fault Ignored - Derate On
5246	16	Regulatory Fault Ignored - Final Action
		Pending
5298	14	SCR Abnormal Temperature Rise
5397	31	DPF Regen Too Often
5435 5442	7 0	Non DEF flow situation
5443 5443	0 15	DPF HC Absorption Very High DPF HC Absorption Warning
5443	16	DPF HC Absorption High
5488	3	SCR Line Heater #5 Circuit Failed High
5488	4	SCR Line Heater #5 Circuit Failed Low

SPN	FMI	ACM2.1 FAULT CODE DESCRIPTION GHG14
5488	5	SCR Line Heater #5 Circuit Failed Open
520232	9	NOX Mass Signal Not Available via CAN
520323	3	High Side Digital Output Supply Voltage Circuit Failed High
520323	4	High Side Digital Output UV_DOS Circuit Failed Low
520326	3	Under pressurized DEF system
520326	4	Over pressurized DEF system
520327	3	Under pressurized DEF system
520327	4	Over pressurized DEF system
520328	7	DEF system has been over pressurized
520329	31	Non DEF flow situation
520332	17	Selective Catalyst Reduction (SCR) Inlet Temperature Too Low

SPNFMIDESCRIPTION GHG14702Park Brake Status Not Plausible (Vehicle Moving)7013J1939 Park Brake Switch Signal from Sources #1, #2, or #3 is missing or not available7019J1939 Park Brake Switch Signal from Sources #1, #2, or #3 is erratic840Vehicle Speed Above Programmable Threshold While Driving843Vehicle Speed Sensor Circuit Failed High844Vehicle Speed Sensor Open Circuit845Vehicle Speed Sensor Open Circuit846VSS Anti-Tamper Detection via ABS Vehicle Speed Comparison847Hall effect VSS wiring mismatch, rationality fault8411Vehicle Speed Above Programmable Threshold2 While Driving8413J1939 Wheel-Based Vehicle Speed Signal from Sources #1, #2, or #3 is missing or not available8414Hall effect VSS supply voltage out of range8419J1939 Wheel-Based Vehicle Speed Signal from Sources #1, #2, or #3 is erratic8420Vehicle Speed Sensor Drifted High Error (VSS signal not plausible)8421Vehicle Speed Failure910Accelerator Pedal Circuit Failed High Accelerator Pedal Circuit Failed Low Accelerator Pedal Circuit Failed Low Peccognized914Accelerator Pedal Circuit Failed Low Peccognized9182 Channel Accelerator Pedal Idle Not Recognized9110Throttle pedal rationality check failed9113J1939 EEC2 Message is missing or not available91142-Channel Accelerator Pedal L			CPC4 FAULT CODE
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91 31 2-Channel Accelerator Pedal Learned Range to Large	91	14	
91 31 2-Channel Accelerator Pedal Learned Range to Large			
Range to Large	91	31	
70 OII LOVOI I IIQII	98	0	Oil Level High

		CPC4 FAULT CODE
SPN	FMI	DESCRIPTION GHG14
98	1	Oil Level Very Low
98	18	Oil Level Low
100	1	Oil Pressure Very Low
100	10	PMC Level 2 fault
100	18	Oil Pressure Low
107	0	Air Filter Restriction High
110	0	Coolant Temperature Very High
110	16	Coolant Temperature High
111	1	Coolant Level Very Low
111	3	Coolant Level Circuit Failed High
111	4	Coolant Level Circuit Failed Low
111	6	Coolant Level Sensor Circuit Failed
111	10	Low
111	18	Coolant Level Low
120	13	J1939 Retarder Fluid Message is missing
158	2	KI15 ignition switch status of CPC2 and
100	2	MCM do not match
168	0	Battery Voltage High
168	1	Battery Voltage Very Low
168	7	Opt Idle Detected Charging System or
100	1	Battery Failure
168	9	Main battery connection lost
168	14	ECU powerdown not completed (Main
100	17	Battery Terminal Possibly Floating)
168	18	Battery Voltage Low
171	2	Ambient Temperature Sensor Data
.,.	_	Erratic Erratic
171	9	J1587 Ambient Air Temp Sensor Data
		Message Stopped Arriving
171	14	J1587 Ambient Air Temp Sensor Data
		Not Received This Ign Cycle
191	9	J1939 ETC1 Message is missing
191	13	J1939 Transmission Output Shaft
		Speed Signal is missing or not
		available
191	19	J1939 Transmission Output Shaft
		Speed Signal is erratic
247	0	MCM Engine Hours Data higher than
		expected
247	1	MCM Engine Hours Data lower than
		expected
247	9	MCM Engine Hours Data not received
		or stopped arriving
247	10	MCM Engine Hours Data increasing at
		an implausible rate

		CPC4 FAULT CODE
SPN	FMI	DESCRIPTION GHG14
247	14	ACM Reported Ash Mileage is Lower
		than the CPC Stored Value
523	13	J1939 Transmission Current Gear
		Signal is missing or not available
523	19	J1939 Transmission Current Gear
020	17	Signal is erratic
524	9	J1939 ETC2 Message is missing
525	7	Transmission gear selection switch
525	,	
FOF	0	reports internal error.
525	9	J1939 Powertrain Message (transfer
		case / PTO) is missing
525	19	Transmission gear selection switch
		reports non-plausible engine brake
		stage requests.
527	9	J1939 CCVS Message is missing
556	9	J1939 RC Message from Transmission
		Retarder is missing
558	2	Idle Validation Switch Inputs Reversed
558	3	Idle Validation Switch 1 Circuit Failed
		High
558	4	Idle Validation Switch 1 Circuit Failed
000		Low
558	5	Idle Validation Switch 2 Circuit Failed
330	J	Low
558	6	Idle Validation Switch 2 Circuit Failed
ეებ	O	
F71	4	High
571	4	Engine Brake Disable push-button
F0/	40	shorted to Ground or pressed too long
596	13	J1939 Cruise Control Enable Switch
		Signal from Sources #1, #2, or #3 is
		missing or not available.
596	19	J1939 Cruise Control Enable Switch
		Signal from Sources #1, #2, or #3 is
		erratic
597	2	Service Brake Status Not Plausible
597	13	J1939 Service Brake Switch Signal
		from Sources #1, #2, or #3 is missing
597	19	J1939 Service Brake Switch Signal
071	,	from Sources #1, #2, or #3 is erratic
598	2	Clutch switch status not plausible
599	4	Cruise Control SET and RESUME
377	4	
/00	10	Circuits Failed Low
600	13	J1939 Cruise Control Coast Switch
		Signal from Source #1, #2, or #3 is
		missing or not available

		CPC4 FAULT CODE
SPN	FMI	DESCRIPTION GHG14
600	19	J1939 Cruise Control Coast Switch
		Signal from Sources #1, #2, or #3 is
		erratic
602	13	J1939 Cruise Control Coast Switch
		Signal from Source #1, #2, or #3 is
		missing or not available
602	19	J1939 Cruise Control Accelerate
		Switch Signal from Sources #1, #2, or
		#3 is erratic
608	14	J1708 Data Link Failure
609	12	CPC2 Hardware Failure
609	13	CPC Software Diagnostics
609	16	Internal temperature of CPC4 too high.
625	2	PTCAN Incorrect MCM System ID
		Received
625	4	ECAN Link Circuit Failure
625	8	MCM PT-CAN DM1 Message Not
		Received or has Stopped Arriving
625	9	ACM PT-CAN DM1 Message Not
		Received or has Stopped Arriving
625	13	TCM System IDs Not Received or
		Stopped Arriving
625	14	MCM System ID Not Received or
		Stopped Arriving
628	2	EEPROM Checksum Failure
628	12	EEPROM Checksum Failure for the
		SCR Block
628	14	XFLASH Static Fault Code Memory
		Page Read Write Failure
628	17	1000ms ECU OS Task Timed out Prior
400	0	to Completion
629	2	CPC Hardware/Software Mismatch
629	12	DDEC Data Xflash Write Error.
(00	4.0	Replace CPC.
630	13	SCR Number Out of Range
639	9	J1939 PROP11 message is missing
639	13	HDMS Fan is configured and the J1939
		message was not received or has
/ 20	1.4	stopped arriving.
639	14	J1939 Data Link Failure
667	3	Starter Pin 1 18 Circuit Failed High
701	3 4	Digital Output 3 07 Circuit Failed High
701 701	5	Digital Output 3 07 Circuit Failed Low
701	5 3	Digital Output 3 07 Circuit Open Digital Output 3 08 Circuit Failed High
702	3 4	
702	4	Digital Output 3 08 Circuit Failed Low

SPN	FMI	CPC4 FAULT CODE DESCRIPTION GHG14
702	5	Digital Output 3 08 Circuit Open
703	3	Digital Output 3 09 Circuit Failed High
703	4	Digital Output 3 09 Circuit Failed Low
703	5	Digital Output 3 09 Circuit Open
703	3	Digital Output 4 07 Circuit Failed High
704	4	Digital Output 4 07 Circuit Failed Low
704	5	Digital Output 4 07 Circuit Palied Low
704	3	Digital Output 1 13 Circuit Failed High
705	4	Digital Output 1 13 Circuit Failed Low
705	5	Digital Output 1 13 Circuit Palied Low
705	3	Digital Output 3 10 Circuit Failed High
706	4	
706	5	Digital Output 3 10 Circuit Failed Low
	3	Digital Output 3 10 Circuit Open
707	3	Digital Output 2 10 Circuit Failed High
707	4	(CEL / AWL Lamp)
707	4	Digital Output 2 10 Circuit Failed Low
707	_	(CEL / AWL Lamp)
707	5	Digital Output 2 10 Circuit Open (CEL /
700	0	AWL Lamp)
708	3	Digital Output 3 12 Circuit Failed High
708	4	Digital Output 3 12 Circuit Failed Low
708	5	Digital Output 3 12 Circuit Open
709	3	Digital Output 3 16 Circuit Failed High
709	4	Digital Output 3 16 Circuit Failed Low
709	5	Digital Output 3 16 Circuit Open
710	3	Digital Output 4 06 Circuit Failed High
710	4	Digital Output 4 06 Circuit Failed Low
710	5	Digital Output 4 06 Circuit Open
711	3	Digital Output 1 05 Circuit Failed High
711	4	Digital Output 1 05 Circuit Failed Low
711	5	Digital Output 1 05 Circuit Open
712	3	Digital Output 1 04 Circuit Failed High
712	4	Digital Output 1 04 Circuit Failed Low
712	5	Digital Output 1 04 Circuit Open
713	7	TOP2 Shift Failure
714	3	Digital Output 4 10 Circuit Failed High
714	4	Digital Output 4 10 Circuit Failed Low
714	5	Digital Output 4 10 Circuit Open
715	3	Frequency Output 4 12 Circuit Failed
		High
715	4	Frequency Output 4 12 Circuit Failed
		Low
715	5	Frequency Output 4 12 Circuit Open
716	3	Frequency Output 1 09 Circuit Failed
		High

		CPC4 FAULT CODE
SPN	FMI	DESCRIPTION GHG14
716	4	Frequency Output 1 09 Circuit Failed
747	_	Low
716 904	5 9	Frequency Output 1 09 Circuit Open J1939 EBC2 Message from ABS is
904	9	missing
904	13	J1939 Front Axle Speed Signal is
		missing or not available
904	19	J1939 Front Axle Speed Signal is
	_	erratic
924	3	Digital Output 4 09 Circuit Failed High
924	4 5	Digital Output 4 09 Circuit Failed Low
924 925	3	Digital Output 4 09 Circuit Open Digital Output 3 17 Circuit Failed High
925	4	Digital Output 3 17 Circuit Failed Flow
925	5	Digital Output 3 17 Circuit Open
926	3	Digital Output 4 01 Circuit Failed High
926	4	Digital Output 4 01 Circuit Failed Low
926	5	Digital Output 4 01 Circuit Open
972	2	Throttle inhibit switch signal not
		plausible due to excess vehicle speed
973	2	EVOBus 5stage retarder level position
973	9	not plausible J1939 EBC1 Message is missing
973	13	J1939 Engine Retarder Selection
770	.0	Signal Missing or not available
973	19	J1939 Engine Retarder Selection
		Signal Erratic
974	2	Remote Accelerator Pedal Supply
07.4		Voltage Out of Range
974	3	Remote Accelerator Pedal Circuit
974	4	Failed High Remote Accelerator Pedal Circuit
7/4	4	Failed Low
979	9	J1939 PTO Message Not Received
		This Ignition Cycle
986	9	J1939 CM1 Message is missing
986	13	J1939 CM1 SPN986 Signal from
		source #1 or #2 is missing or not
007	10	available
986	19	J1939 Service Brake Switch Signal from EBC1 is erratic
1089	9	J1939 AIR1 Message (Air Supply
1007	,	Pressure) is missing from first source
		address

SPN	FMI	CPC4 FAULT CODE DESCRIPTION GHG14
1089	13	J1939 AIR1 Message (Air Supply
		Pressure) is missing from second
		source address
1121	2	J1939 Powertrain Message (AMT -
		Detroit transmission) is missing
1121	13	J1939 Service Brake Switch Signal
		from EBC1 is missing or not available
1121	19	J1939 Service Brake Switch Signal
		from EBC1 is erratic
1237	4	Stop Engine Override Switch Short
		Circuit to Ground
1243	14	ABS fault restricts automatic gear
		selection functionality. Check ABS for
		proper function.
1482	9	J1939 TC1 Message (Transmission
		Mode) is missing
1484	9	J1939 Message was lost (message
		counter error)
1484	13	J1939 Message was lost (CRC error)
1590	9	Adaptive Cruise Control Message Not
		Received
1590	19	Adaptive Cruise Control Device -
		General Error
1592	9	J1939 HRW Message from ABS is
		missing
1592	13	J1939 HRW Wheel Speed Signal
		Missing
1592	19	J1939 HRW Wheel Speed Signal
4 (0 0	•	Erroneous
1623	9	J1939 Tachograph Output shaft speed
1/22	10	Signal is erratic
1623	13	J1939 Tachograph Output shaft speed
1/2/	0	Signal is missing or not available
1624 1624	9 13	J1939 TCO1 Message is missing
1024	13	J1939 Tachograph Vehicle Speed
1401	10	Signal is missing or not available J1939 Tachograph Vehicle Speed
1624	19	Signal is erratic
1662	7	
1663 1681	7	Optimized Idle Safety Loop Faulted J1939 BM Message (Battery Main
1001	7	Switch) is missing
1716	9	J1939 ERC1 Message is missing
1716	13	EVOBus 5stage retarder level
1710	13	calibration not plausible
1814	9	VDC1 Message was not received or
1017		has stopped arriving.
		nao stoppou univing.

SPN	FMI	CPC4 FAULT CODE DESCRIPTION GHG14
1845	9	J1939 TCFG2 Message is missing
2003	9	J1939 Message is missing from source
		address 3 (dec)
2011	9	J1939 Message is missing from source
		address 11 (dec)
2017	9	J1939 Message is missing from source
		address 17 (dec)
2023	9	J1939 Message is missing from source
0005		address 23 (dec)
2025	9	J1939 Message is missing from source
2022	0	address 25 (dec)
2033	9	J1939 Message is missing from source
2042	0	address 33 (dec)
2042	9	J1939 Message is missing from source
2049	9	address 42 (dec) J1939 Message is missing from source
2049	9	address 49 (dec)
2596	9	J1939 CM1 Message (Maximum
2390	9	Vehicle Speed Limit) is Missing or Not
		Available
2623	2	Accelerator pedal "in-range" fault.
2623	8	2 Channel Accelerator Pedal Signal 2
2023	O	Missing
2623	14	2-Channel Accelerator Pedal GAS1
2020		and GAS2 Signal Missing
2646	3	Digital Output 4 02 Circuit Failed High
2646	4	Digital Output 4 02 Circuit Failed Low
2646	5	Digital Output 4 02 Circuit Open
2882	13	Off-Highway Engine Configuration
		Selection message on J1939 was not
		received or has stopped arriving.
2900	9	J1939 ETC7 Message is missing
3187	9	Transmission Shift Console Datalink
		(LIN)
3353	2	Generator (Charging System) D+
		terminal failure
3510	4	Accelerator Pedal Supply Voltage
0540	7	Circuit Failed Low
3510	7	Accelerator Pedal Supply Voltage
2510	0	Circuit Failed High
3510	8	2-Channel Accelerator Pedal Supply
2511	2	Voltage Missing
3511	3	Remote Accelerator Pedal Supply
2511	4	Voltage Circuit Failed High
3511	4	Remote Accelerator Pedal Supply Voltage Circuit Failed Low
		voltage Circuit Falled LOW

SPN	FMI	CPC4 FAULT CODE DESCRIPTION GHG14
3606	9	J1939 ESS Message is missing
3695	9	DPF Regen Inhibit MUX Switch
		Message Stopped Arriving
3695	13	DPF Regen Inhibit MUX Switch
0070	.0	Message Contains SNV Indicator
3695	14	DPF Regen Inhibit MUX Switch
3073	17	Message Not Received this Ign Cycle
3695	19	DPF Regen Inhibit MUX Switch
3073	17	Message Contains Data Error Indicator
3696	4	DPF Regeneration Switch Short Circuit
3090	4	to Ground
3696	9	
3090	9	DPF Regen Force MUX Switch
2/0/	10	Message Stopped Arriving
3696	13	DPF Regen Force MUX Switch
2/0/	1.4	Message Contains SNV Indicator
3696	14	DPF Regen Force MUX Switch
		Message Not Received this Ign Cycle
3696	19	DPF Regen Force MUX Switch
		Message Contains Data Error Indicator
3840	3	Frequency Output 4 15 Circuit Failed
		High
3840	4	Frequency Output 4 15 Circuit Failed
		Low
3840	5	Frequency Output 4 15 Circuit Open
3841	3	Frequency Output 4 11 Circuit Failed
		High
3841	4	Frequency Output 4 11 Circuit Failed
		Low
3841	5	Frequency Output 4 11 Circuit Open
3842	3	Analog Ground 3 02 Circuit Failed High
3842	4	Analog Ground 3 02 Circuit Failed Low
3842	5	Analog Ground 3 02 Circuit Open
3843	3	Digital Input 1 01 Circuit Failed High
3843	4	Digital Input 1 01 Circuit Failed Low
3844	3	Digital Input 1 01 Circuit Failed Low Digital Input 1 02 Circuit Failed High
3844	4	Digital Input 1 02 Circuit Failed High Digital Input 1 02 Circuit Failed Low
3845	3	Digital Input 1 12 Circuit Failed High
3845	4	Digital Input 1 12 Circuit Failed Low
3846	3	Digital Input 1 14 Circuit Failed High
3846	4	Digital Input 1 14 Circuit Failed Low
3847	3	Digital Input 1 15 Circuit Failed High
3847	4	Digital Input 1 15 Circuit Failed Low
3848	3	Digital Input 1 16 Circuit Failed High
3848	4	Digital Input 1 16 Circuit Failed Low
3849	3	Digital Input 1 17 Circuit Failed High
3849	4	Digital Input 1 17 Circuit Failed Low

		CPC4 FAULT CODE
SPN	FMI	DESCRIPTION GHG14
3850	3	Digital Input 1 11 Circuit Failed High
3850	4	Digital Input 1 11 Circuit Failed Low
3851	3	Digital Input 2 09 Circuit Failed High
3851	4	Digital Input 2 09 Circuit Failed Low
3852	3	Digital Input 2 11 Circuit Failed High
3852	4	Digital Input 2 11 Circuit Failed Low
3853	3	Digital Input 2 12 Circuit Failed High
3853	4	Digital Input 2 12 Circuit Failed Low
3854	3	Digital Input 2 13 Circuit Failed High
3854	4	Digital Input 2 13 Circuit Failed Low
3855	3	Digital Input 2 14 Circuit Failed High
3855	4	Digital Input 2 14 Circuit Failed Low
3856	3	Digital Input 2 15 Circuit Failed High
3856	4	Digital Input 2 15 Circuit Failed Low
3857	3	Digital Input 2 07 Circuit Failed High
3857	4	Digital Input 2 07 Circuit Failed Low
3858	3	Digital Input 2 08 Circuit Failed High
3858	4	Digital Input 2 08 Circuit Failed Low
3859	3	Digital Input 4 16 Circuit Failed High
3859	4	Digital Input 4 16 Circuit Failed Low
3860	3	Digital Input 4 18 Circuit Failed High
3860	4	Digital Input 4 18 Circuit Failed Low
3861	3	Digital Input 4 13 Circuit Failed High
3861	4	Digital Input 4 13 Circuit Failed Low
3862	3 4	Digital Input 1 10 Circuit Failed High
3862 3863	3	Digital Input 1 10 Circuit Failed Low Digital Input 4 17 Circuit Failed High
3863	4	Digital Input 4 17 Circuit Failed Fight
3864	3	Digital Input 3 18 Circuit Failed Low
3864	4	Digital Input 3 18 Circuit Failed Low
3865	3	Digital Input 4 08 Circuit Failed Low
3865	4	Digital Input 4 08 Circuit Failed Low
3866	3	Digital Input 4 04 Circuit Failed High
3866	4	Digital Input 4 04 Circuit Failed Low
3867	3	Digital Input 4 05 Circuit Failed High
3867	4	Digital Input 4 05 Circuit Failed Low
3868	3	Digital Input 4 03 Circuit Failed High
3868	4	Digital Input 4 03 Circuit Failed Low
3869	3	Digital Input 4 01 Circuit Failed High
3869	4	Digital Input 4 01 Circuit Failed Low
3870	3	Digital Input 4 02 Circuit Failed High
3870	4	Digital Input 4 02 Circuit Failed Low
3871	2	Transmission Speed Failure
3871	3	Transmission Speed Sensor 4 04 or 3
		13 Circuit Failed High

SPN	FMI	CPC4 FAULT CODE DESCRIPTION GHG14
3871	4	Transmission Speed Sensor 4 04 or 3
		13 Circuit Failed Low
3871	5	Transmission Speed Sensor Open
3071	J	Circuit
3872	3	Analog Output 01 Failed High
3872	3 4	Analog Output 01 Failed Low or Open
3872	4	Circuit
2072	2	on san
3873	3	Analog Output 02 Failed High
3873	4	Analog Output 02 Failed Low or Open
		Circuit
3948	9	J1939 PTODE Message (PTO Drive
		Engagement) is missing
4041	0	20ms ECU OS Task Locked in an
		Endless Loop
4041	9	20ms ECU OS Task Timed out Prior to
		Completion
4041	16	1000ms ECU OS Task Locked in an
		Endless Loop
4206	2	TSC1 Message Counter indicates lost
		Messages
4207	2	TSC1 Message Checksum wrong
511403	0	J1939 PROP B06 Message is missing
511403	1	J1939 PROP B07 Message is missing
511403	2	J1939 BM Message is missing
511403	3	J1939 TCI Message is missing
511403	4	J1939 AIR1 Message is missing from
311403	4	first source address
511403	5	
311403	3	J1939 AIR1 Message is missing from
E11402	4	second source address
511403	6	J1939 EAC1 Message is missing
511403	8	J1939 TC1 Message is missing
511403	9	Generator terminal W - allocation error
E44.100	10	(pulse/rev signal)
511403	10	Generator terminal W - Open circuit,
		short circuit to UB+ or short to ground,
		V-belt slipping
511403	11	Generator D+ terminal failure
511403	12	J1939 PROP B50 Message is missing
511403	13	J1939 PTODE Message is missing
511403	14	J1939 CM1 Message for SPN2596 is
		missing
524280	2	Remote Accelerator Pedal Idle
		Validation Switch Inputs Reversed
524280	3	Remote Accelerator Pedal Idle
		Validation Switch 1 Circuit Failed High
		validation owner i official ration right

SPN	FMI	CPC4 FAULT CODE DESCRIPTION GHG14
524280	4	Remote Accelerator Pedal Idle
		Validation Switch 1 Circuit Failed Low
524280	5	Remote Accelerator Pedal Idle
		Validation Switch 2 Circuit Failed Low
524280	6	Remote Accelerator Pedal Idle
		Validation Switch 2 Circuit Failed High
524281	9	J1939 Powertrain Message (engine
		droop control) is missing
524283	2	Generator (Charging System) terminal
		W - Low Voltage
524283	14	Generator (Charging System) terminal
		W - allocation error (pulse/rev signal)
524284	14	PMC Level 2 fault
524284	19	PMC Level 3 General Protection Fault
524285	4	CM1 DPF Regeneration Switch Short
		Circuit to Ground
524286	1	Automatic gear selection: automatic
		mode is not available
524286	2	Automatic gear selection: incompatible
		or missing dataset
524286	3	Automatic gear selection: EcoRoll is
		not available
524286	4	Automatic gear selection: Gear shift not
		plausible
524286	5	Automatic gear selection: No gear
		shiftable. Check TCM for proper
		function.
524286	6	ITPM error: vehicle calibration is
		inconsistent
524286	7	ITPM error: drivetrain speed signal is
		inconsistent
524287	1	EVObus cruise control lever position
504005	_	not plausible
524287	9	Predictive Cruise Control Message Not
E0.100=	10	Received
524287	19	Predictive Cruise Control Device
		Reporting Error

SPN	FMI	MCM2.1 FAULT CODE DESCRIPTION GHG14
51	2	Intake Throttle Position Deviation Error
51	3	Intake Air Throttle Circuit Failed High
51	4	Intake Air Throttle Circuit Failed Low
51	10	Intake Throttle Position Deviation Error
51	18	Intake Throttle Position Rationality
· ·	. •	Error
84	3	Vehicle Speed Sensor Circuit Failed
		High
84	4	Vehicle Speed Sensor Circuit Failed
		Low
84	13	J1939 Wheel-Based Vehicle Speed
		Signal from Source#1 is Missing
84	19	J1939 Wheel-Based Vehicle Speed
		Signal from Source#2 is Erratic
84	21	Vehicle Speed Sensor Erratic
94	2	Low Side Fuel Pressure Not Plausible
94	3	Low Side Fuel Pressure Sensor Circuit
		Failed High
94	4	Low Side Fuel Pressure Sensor Circuit
		Failed Low
94	15	Fuel Filter Service Warning
94	16	Fuel Filter Replacement Required
96	2	Fuel Tank Level Sensor Stuck in
		Position
97	3	Water in Fuel Circuit Failed High
97	4	Water in Fuel Circuit Failed Low
97	14	Water-in-Fuel (WIF) Warning – Ignored
97	15	Water-in-Fuel (WIF) Warning
97	16	Water-in-Fuel (WIF) Warning
97	31	Water-in-Fuel (WIF) Warning – Ignored
100	0	Engine Oil Pressure Stuck
100	1	Engine Oil Pressure Very Low
100	3	Engine Oil Pressure Circuit Failed High
100	4	Engine Oil Pressure Circuit Failed Low
100	10	Low Oil PSI Derate
100	17	Engine Oil Pressure Low
102	16	Intake Manifold Pressure too High
102	18	Intake Manifold Pressure too Low
103	0	Turbo Charger Speed Above Threshold
		(Low Box)
103	1	Turbo Charger Speed Below Threshold
		(High Box)
103	2	Turbocharger Speed Out of Range
		High
108	3	Barometric Pressure Circuit Failed
		High

HG14
Circuit Failed Low
High
Temperature
Temperature
/ Engine Oil
ity Fault
High Pre-warning
High Alarm
n Pressure Circuit
low - Low
Low
e for Injection
High
ausible
m Lower Limit
Circuit Failed
Circuit Failed
Circuit Failed
low - High
Signal Drift
Signal Drift
ore High
gh
cuit Failed High
cuit Failed Low
nsor, Minimum
ity
Warning
re Circuit Failed
01 11 5 11 1
re Circuit Failed
re Sensor

		MCM2.1 FAULT CODE
SPN	FMI	DESCRIPTION GHG14
175	15	Oil Temperature High Pre Warning
175	18	Oil Temperature Sensor, Minimum
		Temperature Plausibility
188	31	Idle Speed Out of Range
190	0	Engine Speed High
190	14	Engine Overspeed while Driving
190	15	Engine Overspeed Pre-warning
190	16	Engine Overspeed while Stationary
191	13	J1939 Transmission Output Shaft
		Speed Signal is Missing
191	19	J1939 Transmission Output Shaft
		Speed Signal is Erratic
411	0	EGR Differential Pressure Failed (Low
444	4	Box)
411	1	EGR Differential Pressure Failed (High
411	2	Box) EGR Delta Pressure Sensor Out of
411	2	
411	3	Calibration Low EGR Delta Pressure Sensor Circuit
411	3	High
411	4	EGR Delta Pressure Sensor Circuit
411	4	Low
411	13	EGR Delta Pressure Sensor Out of
711	13	Calibration High
523	13	J1939 Transmission Current Gear
020	10	Signal is Missing
523	19	J1939 Transmission Current Gear
		Signal is Erratic
625	8	MCM UDS DM1 Message Not
		Received or has Stopped Arriving
625	9	No Data Received from Engine CAN
		Link
625	14	ACM UDS DM1 Message Not
		Received or has Stopped Arriving
625	17	No ACM2 Communication - Pre
		Warning
625	18	No ACM2 Communication - Warning
636	1	Crankshaft Position Sensor Short to
		Ground
636	2	
101		
636	3	
(2)	0	
636	10	
		ETTALIC
636 636 636 636	2 3 8 10	

SPN	FMI	MCM2.1 FAULT CODE DESCRIPTION GHG14
636	11	Crankshaft Position Sensor Failure
641	3	Turbo Control Circuit Failed High
641	4	Turbo Control Circuit Failed Low
641	5	Turbo Control Circuit Open
647	3	Fan Stage 1 Circuit Failed High
647	4	Fan Stage 1 Circuit Failed Low
647	5	Fan Stage 1 Circuit Failed Open
651	3	Injector Cylinder #1 Needle Control
	, and the second	Valve, Abnormal Operation (MAX)
651	4	Injector Cylinder #1 Needle Control
001	7	Valve, Abnormal Operation (MIN)
651	5	Injector Cylinder #1 Needle Control
001	J	Valve, Circuit Open
651	6	Injector Cylinder #1 Needle Control
001	O	Valve, Valve Shorted Circuit
651	7	
001	1	Injector Cylinder #1 Needle Control
/ F0	2	Valve, Stuck Open
652	3	Injector Cylinder #2 Needle Control
/ F0		Valve, Abnormal Operation (MAX)
652	4	Injector Cylinder #2 Needle Control
	_	Valve, Abnormal Operation (MIN)
652	5	Injector Cylinder #2 Needle Control
		Valve, Circuit Open
652	6	Injector Cylinder #2 Needle Control
		Valve, Valve Shorted Circuit
652	7	Injector Cylinder #2 Needle Control
		Valve, Stuck Open
653	3	Injector Cylinder #3 Needle Control
		Valve, Abnormal Operation (MAX)
653	4	Injector Cylinder #3 Needle Control
		Valve, Abnormal Operation (MIN)
653	5	Injector Cylinder #3 Needle Control
		Valve, Circuit Open
653	6	Injector Cylinder #2 Needle Control
		Valve, Valve Shorted Circuit
653	7	Injector Cylinder #3 Needle Control
		Valve, Stuck Open
654	3	Injector Cylinder #4 Needle Control
		Valve, Abnormal Operation (MAX)
654	4	Injector Cylinder #4 Needle Control
		Valve, Abnormal Operation (MIN)
654	5	Injector Cylinder #4 Needle Control
		Valve, Circuit Open
654	6	Injector Cylinder #4 Needle Control
		Valve, Valve Shorted Circuit
		Tanta Charles Charles

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SPN	FMI	MCM2.1 FAULT CODE DESCRIPTION GHG14
654	7	Injector Cylinder #4 Needle Control
		Valve, Stuck Open
655	3	Injector Cylinder #5 Needle Control
		Valve, Abnormal Operation (MAX)
655	4	Injector Cylinder #5 Needle Control
		Valve, Abnormal Operation (MIN)
655	5	Injector Cylinder #5 Needle Control
		Valve, Circuit Open
655	6	Injector Cylinder #5 Needle Control
	_	Valve, Valve Shorted Circuit
655	7	Injector Cylinder #5 Needle Control
<i>(</i> . <i>. .</i>	0	Valve, Stuck Open
656	3	Injector Cylinder #6 Needle Control
/F/	4	Valve, Abnormal Operation (MAX)
656	4	Injector Cylinder #6 Needle Control
656	5	Valve, Abnormal Operation (MIN) Injector Cylinder #6 Needle Control
000	3	Valve, Circuit Open
656	6	Injector Cylinder #6 Needle Control
030	U	Valve, Valve Shorted Circuit
656	7	Injector Cylinder #6 Needle Control
030	1	Valve, Stuck Open
677	2	Starter Switch Inconsistent
677	3	Engine Starter Relay Shorted to High
011	J	Source
677	4	Engine Starter Relay Circuit Failed Low
677	5	Engine Starter Relay Open Circuit
677	7	Engine Starter Relay - Starter Does
		Not Engage
705	3	Digital Output 1 13 Circuit Failed High
705	4	Digital Output 1 13 Circuit Failed Low
710	3	Digital Output 4 06 Circuit Failed High
710	4	Digital Output 4 06 Circuit Failed Low
723	8	Camshaft Position Sensor Time Out
723	10	Camshaft Position Sensor Signal
722	11	Erratic
723	11 31	Camshaft Position Sensor Failure
723 961	2	Backwards Running Engine Detected CPC Clock Data Invalid
1033	2 15	MCM Engine Run Timer Plausibility
1033	17	MCM Engine Run Timer Plausibility MCM Engine Off Timer Plausibility
1033 1071	3	Fan Stage 2 Circuit Failed High
1071	4	Fan Stage 2 Circuit Failed Low
1071	5	Fan Stage 2 Circuit Failed Open
1072	3	Jake Brake Stage 1 Circuit Failed High
1072	4	Jake Brake Stage 2 Circuit Failed Low

SPN	FMI	MCM2.1 FAULT CODE DESCRIPTION GHG14
1072	5	Jake Brake Stage 1 Circuit Failed
1072	3	S .
1070	2	Open
1073	3	Jake Brake Stage 2 Circuit Failed High
1073	4	Jake Brake Stage 2 Circuit Failed Low
1073	5	Jake Brake Stage 2 Circuit Failed Open
1077	3	Quantity Control Valve (Low Side)
1077	4	Error Quantity Control Valve (High Side)
1077	4	Error
1077	5	Quantity Control Valve Error, Current too Low
1077	6	Quantity Control Valve, Desired
		Current Doesn't Match Actual Current
1077	14	Leakage in High Pressure Fuel System
		too High (Leak Down Test)
1172	3	Turbo Charger Compressor Inlet
		Temperature Circuit Failed High
1172	4	Turbo Charger Compressor Inlet
		Temperature Circuit Failed Low
1231	9	ACM Message Not Received or has
		Stopped Arriving
1322	31	Multiple Cylinder Misfire Detected at Idle
1323	31	Idle Smoothness Control / Cylinder #1
	O.	Misfire at Idle
1324	31	Idle Smoothness Control / Cylinder #2 Misfire at Idle
1325	31	Idle Smoothness Control / Cylinder #3
1020	31	Misfire at Idle
1326	31	Idle Smoothness Control / Cylinder #4
		Misfire at Idle
1327	31	Idle Smoothness Control / Cylinder #5
		Misfire at Idle
1328	31	Idle Smoothness Control / Cylinder #6 Misfire at Idle
1636	0	
1636	0	Charge Air Cooler Low Efficiency
1636	2	Difference Intake Manifold and Icooler
		Temperature Out Less Than Threshold
1/2/	2	(Low Box)
1636	3	Intake Manifold Temperature Circuit
1/2/	4	Failed High
1636	4	Intake Manifold Temperature Circuit
1.00	0	Failed Low
1639	2	Fan Speed Error
1659	1	Thermostat Error

0011		MCM2.1 FAULT CODE
SPN	FMI	DESCRIPTION GHG14
2630	2	Difference Intake Manifold and Icooler
		Temperature Out Less Than Threshold
		(High Box)
2630	3	Charge Air Cooler Outlet Temperature
		Circuit Failed High
2630	4	Charge Air Cooler Outlet Temperature
		Circuit Failed Low
2630	16	Charge Air Cooler Performance
		Monitor
2631	1	Low Air Flow
2659	0	EGR Flow Target Error Diagnostic -
		High Flow
2659	18	EGR Flow Target Error Diagnostic -
2007	10	Low Flow
2791	0	EGR Valve Actuator, Temperature
2171	U	Alert
2791	2	EGR Valve Actuator, Position Deviation
2/71	2	Error
2791	7	EGR Valve Actuator, Failsafe Mode,
2/91	/	Motor Off
2701	11	
2791	11	EGR Valve Actuator, Motor Off
2791	12	EGR Valve Actuator, Frozen
2791	14	EGR Valve Actuator, CAN Error
2791	15	EGR Valve Actuator, Temperature
0704	4.1	Warning
2791	16	EGR Valve Actuator, Learn Cycle Too
		Large
2791	18	EGR Valve Actuator, Learn Cycle Too
		Small
2791	31	Exhaust Gas Recirculation (EGR) valve
		actuator (unknown error code)
2797	3	Injector Needle Control Valve Cylinder
		#1, #2, #3, Shorted to Battery
2797	4	Injector Needle Control Valve Cylinder
		#1, #2, #3, Shorted to Ground
2798	3	Injector Needle Control Valve Cylinder
		#4, #5, #6, Shorted to Battery
2798	4	Injector Needle Control Valve Cylinder
		#4, #5, #6, Shorted to Ground
3058	9	EGR Slow Response Low Box
3058	10	Exhaust Gas Recirculation Slow
		Response
3216	2	NOX Inlet Sensor Plausibility Error
3216	10	NOX Inlet Sensor Plausibility Error
3216	16	NOx inlet sensor plausibility error high
3216	18	NOx inlet sensor plausibility error low
JZ 10	10	NON ITHER SETISOF PLAUSIDINITY ETTOF TOW

		MCM2.1 FAULT CODE
SPN	FMI	DESCRIPTION GHG14
3216	21	SCR NOX Inlet Sensor Drift Low
3464	3	IAT Motor Circuit Shorted to Battery
3464	4	IAT Motor Circuit Shorted to Ground
3464	5	IAT Motor Short Circuit/Over Current
3464	16	Intake Manifold Pressure too High
3464	18	Intake Manifold Pressure too Low
3464	31	H Bridge 1 IAT Circuit Open Load
3471	3	HC Doser Circuit Failed High
3471	4	HC Doser Circuit Failed Low
3471	5	HC Doser Circuit Failed Open
3480	0	Fuel Compensation Pressure High
3480	1	Doser Fuel Supply Pressure Abnormal
3480	2	Doser Fuel Line Pressure Low
3480	3	Fuel Compensation Pressure Sensor
2.400	,	Circuit Failed High
3480	4	Fuel Compensation Pressure Sensor
2400	1.4	Circuit Failed Low
3480	14	Doser FLP Sensors Failed Self Test
3480	21	Fuel Cut Off Valve Pressure Not
2402	2	Plausible
3482	3	Fuel Cut Off Valve Circuit Failed High
3482	4	Fuel Cut Off Valve Circuit Failed Low
3482 3509	5 3	Fuel Cut Off Valve Circuit Failed Open
3509	3	5V Sensor Supply Bank 1 Circuit Failed
3509	4	High 5V Sensor Supply Bank 1 Circuit Failed
3309	4	Low
3510	3	5V Sensor Supply Bank 2 Circuit Failed
3310	3	High
3510	4	5V Sensor Supply Bank 2 Circuit Failed
3310	4	Low
3511	3	3V Sensor Supply Bank 1 Circuit Failed
3311	J	High
3511	4	3V Sensor Supply Bank 1 Circuit Failed
3311	7	Low
3512	3	3V Sensor Supply Bank 2 Circuit Failed
0012	J	High
3512	4	3V Sensor Supply Bank 2 Circuit Failed
0012		Low
3563	3	Intake Manifold Pressure Circuit Failed
3000	- 0	High
3563	4	Intake Manifold Pressure Circuit Failed
0000		Low
3563	20	Ambient and Inlet Manifold Pressure
3000		Difference (Low Box)

SPN	FMI	MCM2.1 FAULT CODE DESCRIPTION GHG14
3563	21	Ambient and Inlet Manifold Pressure
		Difference (High Box)
3597	3	Proportional Valve Bank 1 Circuit
		Failed High
3597	4	Proportional Valve Bank 1 Circuit
0077		Failed Low
3598	3	Proportional Valve Bank 2 Circuit
3370	J	Failed High
3598	4	Proportional Valve Bank 2 Circuit
3370	7	Failed Low
3599	3	MCM Internal Injector Power Supply
3377	J	Failed High
3599	4	MCM Internal Injector Power Supply
3377	4	Failed Low
3659	3	Injector Cylinder #1 Spill Control Valve
3039	3	
		("Amplifier"), Abnormal Operation
0./50	4	(MAX)
3659	4	Injector Cylinder #1 Spill Control Valve
2/50	-	("Amplifier"), Abnormal Operation (MIN)
3659	5	Injector Cylinder #1 Spill Control Valve
0.450	,	("Amplifier"), Circuit Open
3659	6	Injector Cylinder #1 Spill Control Valve
		("Amplifier"), Valve Shorted Circuit
3660	3	Injector Cylinder #2 Spill Control Valve
		("Amplifier"), Abnormal Operation
		(MAX)
3660	4	Injector Cylinder #2 Spill Control Valve
		("Amplifier"), Abnormal Operation (MIN)
3660	5	Injector Cylinder #2 Spill Control Valve
		("Amplifier"), Circuit Open
3660	6	Injector Cylinder #2 Spill Control Valve
		("Amplifier"), Valve Shorted Circuit
3661	3	Injector Cylinder #3 Spill Control Valve
		("Amplifier"), Abnormal Operation
		(MAX)
3661	4	Injector Cylinder #3 Spill Control Valve
		("Amplifier"), Abnormal Operation (MIN)
3661	5	Injector Cylinder #3 Spill Control Valve
		("Amplifier"), Circuit Open
3661	6	Injector Cylinder #3 Spill Control Valve
		("Amplifier"), Valve Shorted Circuit
3662	3	Injector Cylinder #4 Spill Control Valve
		("Amplifier"), Abnormal Operation
		(MAX)
3662	4	Injector Cylinder #4 Spill Control Valve
		("Amplifier"), Abnormal Operation (MIN)

SPN	FMI	MCM2.1 FAULT CODE DESCRIPTION GHG14
3662	5	Injector Cylinder #4 Spill Control Valve
		("Amplifier"), Circuit Open
3662	6	Injector Cylinder #4 Spill Control Valve
		("Amplifier"), Valve Shorted Circuit
3663	3	Injector Cylinder #5 Spill Control Valve
		("Amplifier"), Abnormal Operation
2//2	4	(MAX)
3663	4	Injector Cylinder #5 Spill Control Valve
3663	5	("Amplifier"), Abnormal Operation (MIN) Injector Cylinder #5 Spill Control Valve
3003	5	("Amplifier"), Circuit Open
3663	6	Injector Cylinder #5 Spill Control Valve
3003	U	("Amplifier"), Valve Shorted Circuit
3664	3	Injector Cylinder #6 Spill Control Valve
0001	Ü	("Amplifier"), Abnormal Operation
		(MAX)
3664	4	Injector Cylinder #6 Spill Control Valve
		("Amplifier"), Abnormal Operation (MIN)
3664	5	Injector Cylinder #6 Spill Control Valve
		("Amplifier"), Circuit Open
3664	6	Injector Cylinder #6 Spill Control Valve
		("Amplifier"), Valve Shorted Circuit
3716	31	High Idle Regeneration (HIR) aborted -
4077	0	Low Coolant Temp
4077	0	Doser Fuel Line Pressure High
4077	3	Doser Fuel Line Pressure Sensor Circuit Failed High
4077	4	Doser Fuel Line Pressure Sensor
4077	4	Circuit Failed Low
4077	14	Doser Fuel Line Pressure Failed Self
1077	• •	Test
4193	2	Coolant Inlet Temperature Not
		Plausible
4193	3	Engine Coolant Inlet Temperature
		Circuit Failed High
4193	4	Engine Coolant Inlet Temperature
	. =	Circuit Failed Low
4193	17	Coolant Outlet Temperature Sensor,
4057	2	Minimum Temperature Plausibility
4257	3	Injector Amplifier Control Valve
4257	4	Cylinder #1, #2, #3, Shorted to Battery
4237	4	Injector Amplifier Control Valve Cylinder #1, #2, #3, Shorted to Ground
4258	3	Injector Amplifier Control Valve
7230	3	Cylinder #4, #5, #6, Shorted to Battery
		Symbol # 17 # 07 # 07 Office to Buttery

SPN	FMI	MCM2.1 FAULT CODE DESCRIPTION GHG14
4258	4	Injector Amplifier Control Valve
		Cylinder #4, #5, #6, Shorted to Ground
4752	0	EGR Cooler Low Efficiency
4752	15	EGR Cooler Performance Monitor
4765	0	Exhaust Temperature Out of Range
		High
4814	3	Water Pump Circuit Failed High
4814	4	Water Pump Circuit Failed Low
4814	5	Water Pump Circuit Failed Open
5312	7	Intake Manifold Pressure Very Low
5323	13	Excessive Time to Enter Closed Loop
F2F7	1/	Fuel Pressure Control
5357	16	Total Injected Fuel Mass too High
5357	18	Total Injected Fuel Mass too Low
5395	15	Idle Fuel Quantity Out of Range
5418	3	FMU High Side Short-Circuit to Battery
5418	4	FMU Low Side Short-Circuit to Ground
5444	1	Engine Crankcase Breather Oil
EE71	7	Separator Speed too Low
5571	7	Pressure Limiting Valve, Failed to Close
5588	9	CAN3 Communication Error
5927	2	Electronically Controlled Water Pump
		Limp Home Mode
5927	7	Electronically Controlled Water Pump
		Mechanical Defect Detected
520253	14	Software Reset Detected
520253	31	Software Reset Detected
520261	31	Speed Limitation Fault
520267	2	CPC Clock Data Invalid
520267	15	MCM Engine Run Timer Plausibility
520267	17	MCM Engine Off Timer Plausibility
520268	16	Fuel Rail Pressure Too High, Similar Condition
520268	18	Fuel Rail Pressure Too Low, Similar
		Condition
520279	7	Starter Inhibit due to Improper
F20200	7	Condition
520280	7	Engine Brake High Inhibit due to Improper Condition
520281	7	Engine Brake Inhibit due to JB1
		Improper Condition
520282	7	Engine Brake Inhibit due to JB2
		Improper Condition
520286	31	Software Reset Detected
520287	7	MCM Hardware Reset

		MOMO 4 FAULT CODE
SPN	FMI	MCM2.1 FAULT CODE DESCRIPTION GHG14
520287	13	MCM Software Reset
520287	14	MCM missing VIN
520296	3	EGR Valve Actuator, Low Supply
		Voltage
520296	13	EGR Valve Actuator, Error
520296	19	EGR Valve Actuator, Communication
		Error
520296	31	EGR Valve Actuator, Learn Cycle
		Incomplete
520305	3	Injector Cylinder #1 Needle Control
		Valve, Abnormal Operation (MAX) Cold
520305	4	Injector Cylinder #1 Needle Control
		Valve, Abnormal Operation (MIN) Cold
520306	3	Injector Cylinder #2 Needle Control
		Valve, Abnormal Operation (MAX) Cold
520306	4	Injector Cylinder #2 Needle Control
		Valve, Abnormal Operation (MIN) Cold
520307	3	Injector Cylinder #3 Needle Control
		Valve, Abnormal Operation (MAX) Cold
520307	4	Injector Cylinder #3 Needle Control
		Valve, Abnormal Operation (MIN) Cold
520308	3	Injector Cylinder #4 Needle Control
		Valve, Abnormal Operation (MAX) Cold
520308	4	Injector Cylinder #4 Needle Control
		Valve, Abnormal Operation (MIN) Cold
520309	3	Injector Cylinder #5 Needle Control
		Valve, Abnormal Operation (MAX) Cold
520309	4	Injector Cylinder #5 Needle Control
		Valve, Abnormal Operation (MIN) Cold
520310	3	Injector Cylinder #6 Needle Control
		Valve, Abnormal Operation (MAX) Cold
520310	4	Injector Cylinder #6 Needle Control

Valve, Abnormal Operation (MIN) Cold

51 4 Intake Air Throttle Circuit Failed Low 108 13 Ambient Air Pressure Signal Not Available via CAN 110 9 Coolant Temperature Signal Not Available via CAN 158 7 ACM Power Down - Key Off Purge Cycle 168 0 Battery Voltage High 168 1 Battery Voltage Low 171 3 Ambient Air Temperature Circuit Faile High 171 4 Ambient Air Temperature Circuit Faile Low 171 8 Ambient Air Temperature Signal Not Available via CAN 190 9 Engine Speed Signal Not Available vi CAN 354 3 Relative Humidity Sensor Circuit Faile High Relative Humidity Sensor Circuit Faile	ed
Available via CAN Coolant Temperature Signal Not Available via CAN Available via CAN ACM Power Down - Key Off Purge Cycle Battery Voltage High Battery Voltage Low Ambient Air Temperature Circuit Faile High Ambient Air Temperature Circuit Faile Low Ambient Air Temperature Signal Spike Ambient Air Temperature Signal Not Available via CAN Bengine Speed Signal Not Available via CAN Relative Humidity Sensor Circuit Faile High	ed
110 9 Coolant Temperature Signal Not Available via CAN 158 7 ACM Power Down - Key Off Purge Cycle 168 0 Battery Voltage High 168 1 Battery Voltage Low 171 3 Ambient Air Temperature Circuit Faile High 171 4 Ambient Air Temperature Circuit Faile Low 171 8 Ambient Air Temp Signal Spike 171 13 Ambient Air Temperature Signal Not Available via CAN 190 9 Engine Speed Signal Not Available via CAN 354 3 Relative Humidity Sensor Circuit Faile High	ed
Available via CAN 158 7 ACM Power Down - Key Off Purge Cycle 168 0 Battery Voltage High 168 1 Battery Voltage Low 171 3 Ambient Air Temperature Circuit Faile High 171 4 Ambient Air Temperature Circuit Faile Low 171 8 Ambient Air Temp Signal Spike 171 13 Ambient Air Temperature Signal Not Available via CAN 190 9 Engine Speed Signal Not Available via CAN 354 3 Relative Humidity Sensor Circuit Faile High	ed
158 7 ACM Power Down - Key Off Purge Cycle 168 0 Battery Voltage High 168 1 Battery Voltage Low 171 3 Ambient Air Temperature Circuit Faile High 171 4 Ambient Air Temperature Circuit Faile Low 171 8 Ambient Air Temp Signal Spike 171 13 Ambient Air Temperature Signal Not Available via CAN 190 9 Engine Speed Signal Not Available vi CAN 354 3 Relative Humidity Sensor Circuit Faile High	ed
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171 3 Ambient Air Temperature Circuit Faile High 171 4 Ambient Air Temperature Circuit Faile Low 171 8 Ambient Air Temp Signal Spike 171 13 Ambient Air Temp Signal Spike 171 13 Ambient Air Temperature Signal Not Available via CAN 190 9 Engine Speed Signal Not Available via CAN 354 3 Relative Humidity Sensor Circuit Faile High	ed
High 171 4 Ambient Air Temperature Circuit Faile Low 171 8 Ambient Air Temp Signal Spike 171 13 Ambient Air Temperature Signal Not Available via CAN 190 9 Engine Speed Signal Not Available vi CAN 354 3 Relative Humidity Sensor Circuit Faile High	ed
171 4 Ambient Air Temperature Circuit Faile Low 171 8 Ambient Air Temp Signal Spike 171 13 Ambient Air Temperature Signal Not Available via CAN 190 9 Engine Speed Signal Not Available via CAN 354 3 Relative Humidity Sensor Circuit Faile High	
 171 13 Ambient Air Temperature Signal Not Available via CAN 190 9 Engine Speed Signal Not Available vi CAN 354 3 Relative Humidity Sensor Circuit Faile High 	2
 171 13 Ambient Air Temperature Signal Not Available via CAN 190 9 Engine Speed Signal Not Available vi CAN 354 3 Relative Humidity Sensor Circuit Faile High 	a
190 9 Engine Speed Signal Not Available vi CAN 354 3 Relative Humidity Sensor Circuit Faile High	2
CAN 354 3 Relative Humidity Sensor Circuit Faile High	CI
354 3 Relative Humidity Sensor Circuit Faile High	
	ed
354 4 Relative Humidity Sensor Circuit Faile	
Low	ed .
513 9 Actual Torque Signal Not Available vi	a
CAN	
628 14 ECU Software Error	
629 12 ACM Internal Error	
1037 0 DPF HC Absorption Very High	
1037 15 DPF HC Absorption Warning	
1037 16 DPF HC Absorption High	
1119 31 Nox Signal Not Plausible	
1172 3 Turbo Compressor Inlet Temperature Circuit Failed High	
1172 4 Turbo Compressor Inlet Temperature Circuit Failed Low	
1761 1 DEF Tank Level 0 - Empty(Speed	
Limited)	
1761 2 DEF Level Sensor Error	
1761 3 DEF Tank Level Sensor Circuit Failed High	1
1761 4 DEF Tank Level Sensor Circuit Failed	
Low	'
1761 17 DEF Tank Level 2 - Very Low	
1761 18 DEF Tank Level 1 - Empty	
1761 31 DEF Tank Level 3 - Low	
1908 3 DEF Air Lock Valve Circuit Failed Hig	
1908 4 DEF Air Lock Valve Circuit Failed Lov	h

CDN		ACM FAULT CODE
SPN	FMI	DESCRIPTION EPA10
1908	5	DEF Air Lock Valve Circuit Failed Open
3031	0	SCR Temperature of Tank is Too High
3031	2	DEF Tank Temperature - Drift
3031	3	DEF Tank Temperature Sensor Circuit
		Failed High
3031	4	DEF Tank Temperature Sensor Circuit
		Failed Low
3031	13	DEF Tank Temperature Signal Not
		Available via CAN
3050	0	Engine Air Flow Out of Range Low
3050	1	Active Regen Temp Out of Range Low
3056	2	SCR Inlet NOx Sensor - Error
3057	2	SCR Outlet NOx Sensor - Error
3064	13	DPF System Parametrization Failure
3216	3	SCR Inlet NOx Sensor Circuit Failed
0210	Ü	High
3216	4	SCR Inlet NOx Sensor Circuit Failed
3210	7	Low
3216	13	SCR Inlet NOx Sensor Signal Not
3210	13	Available
3226	2	SCR Outlet NOx Sensor - Drift
3226	2	SCR Outlet NOx Sensor Circuit Failed
3220	3	
3226	4	High
3220	4	SCR Outlet NOx Sensor Circuit Failed
222/	10	LOW
3226	13	SCR Outlet NOx Sensor Signal Not
0007	00	Available
3226	20	NOx Outlet Sensor Drift Low
3226	21	NOx Outlet Sensor Drift High
3236	9	Exhaust Mass Signal Not Available via
	_	CAN
3242	3	DOC Inlet Temperature Circuit Failed
		High
3242	4	DOC Inlet Temperature Circuit Failed
		Low
3242	8	DOC Inlet Temperature - Signal Spike
3242	10	DOC Inlet Temperature Sensor Stuck
3242	20	DOC Temperature Drift - Inlet High or
		Outlet Low
3242	21	DOC Inlet Temperature Sensor -
		Plausibility Error
3242	31	DOC Inlet Temperature Stuck (high
		box)
3246	0	DPF Outlet Temperature - Very High
3246	3	DPF Outlet Temperature Circuit Failed
		High

SPN	FMI	ACM FAULT CODE DESCRIPTION EPA10
3246	4	DPF Outlet Temperature Circuit Failed
		Low
3246	8	DPF Outlet Temperature - Signal Spike
3246	10	DPF Outlet Temperature Sensor Stuck
3246	14	Abnormal DPF Temperature Rise 2
3246	15	DPF Outlet Temperature - High
3246	20	DPF Temperature Drift - Inlet Low or Outlet High
3246	21	DPF Outlet Temperature Sensor - Not
3246	31	Plausible Abnormal DPF Temperature Rise 1
3250	0	DOC Outlet Temperature - Very High
3250	3	DOC Outlet Temperature Circuit Failed
		High
3250	4	DOC Outlet Temperature Circuit Failed
3250	8	Low DOC Outlet Temperature - Signal
3230	0	Spike
3250	14	Abnormal DOC Temperature Rise 2
3250	15	DOC Outlet Temperature - High
3250	20	DOC Temperature Drift - Inlet Low or Outlet High
3250	21	DOC Outlet Temperature Sensor -
0050	0.4	Plausibility Error
3250 3251	31	Abnormal DOC Temperature Rise DPF Pressure - Out of Range Very
3231	U	High
3251	1	DPF Pressure Out of Range Low
3251	2	DOC Inlet Pressure Sensor - Not
020.	_	Plausible
3251	16	DPF Pressure - Out of Range High
3280	0	DPF Outlet Temperature High (Bank 2)
3284	0	DOC Outlet Temperature High (Bank 2)
3284	3	DOC Outboard Outlet Temperature
		Circuit Failed High
3284	4	DOC Outboard Outlet Temperature Circuit Failed Low
3284	8	DOC Outboard Outlet Temperature -
		Signal Spike
3284	10	DOC Outboard Outlet Temperature Sensor Stuck
3284	21	DOC Outboard Outlet Temperature
		Sensor - Plausibility Error
3361	0	DEF Pressure Duty Cycle High
3361	1	DEF Pressure Duty Cycle Low

		ACM FAULT CODE
SPN	FMI	ACM FAULT CODE DESCRIPTION EPA10
3361	3	DEF Dosing Valve Circuit Failed High
3361	4	DEF Dosing Valve Circuit Failed Low
3361	5	DEF Dosing Valve Circuit Failed Open
3361	7	DEF Unit - Unable to clear Restriction
3361	8	DEF Metering Unit - Exceeded Unclog
		Attempts
3363	0	DEF Tank Temperature - High
3363	1	DEF Tank Temperature - Low
3363	3	DEF Coolant Valve Circuit Failed High
3363	4	DEF Coolant Valve Circuit Failed Low
3363	5	DEF Coolant Valve Circuit Failed Open
3364	1	Improper DEF Quality Final Warning
3364	2	Improper DEF Quality
3364	17	Improper DEF Quality Warning
3490	3	DEF Purge Lamp Circuit Failed High
3490 3490	4 5	DEF Purge Lamp Circuit Failed Low DEF Purge Lamp Circuit Failed Open
3509	3	ACM Sensor Supply 1 Short to Battery
3509	4	ACM Sensor Supply 1 Short to Ground
3510	3	ACM Sensor Supply 2 Short to Battery
3510	4	ACM Sensor Supply 2 Short to Ground
3523	8	Regen Frequency Error
3023	Ŏ	Neuell Feducity Life
3556	0	Regen Temperature - Out of Range
3556	0	Regen Temperature - Out of Range High
		Regen Temperature - Out of Range High Regen Temperature - Out of Range
3556 3556	0	Regen Temperature - Out of Range High Regen Temperature - Out of Range Low
3556	0	Regen Temperature - Out of Range High Regen Temperature - Out of Range Low DOC Outlet Temp Low (Low Temp
3556 3556 3556	0 1 18	Regen Temperature - Out of Range High Regen Temperature - Out of Range Low DOC Outlet Temp Low (Low Temp Regen)
3556 3556	0	Regen Temperature - Out of Range High Regen Temperature - Out of Range Low DOC Outlet Temp Low (Low Temp Regen) High Side Digital Output 1 Circuit
3556 3556 3556 3597	1 18 3	Regen Temperature - Out of Range High Regen Temperature - Out of Range Low DOC Outlet Temp Low (Low Temp Regen) High Side Digital Output 1 Circuit Failed High
3556 3556 3556	0 1 18	Regen Temperature - Out of Range High Regen Temperature - Out of Range Low DOC Outlet Temp Low (Low Temp Regen) High Side Digital Output 1 Circuit Failed High High Side Digital Output 1 Circuit
3556 3556 3556 3597 3597	1 18 3 4	Regen Temperature - Out of Range High Regen Temperature - Out of Range Low DOC Outlet Temp Low (Low Temp Regen) High Side Digital Output 1 Circuit Failed High High Side Digital Output 1 Circuit Failed Low
3556 3556 3556 3597	1 18 3	Regen Temperature - Out of Range High Regen Temperature - Out of Range Low DOC Outlet Temp Low (Low Temp Regen) High Side Digital Output 1 Circuit Failed High High Side Digital Output 1 Circuit Failed Low High Side Digital Output 2 Circuit
3556 3556 3556 3597 3597	1 18 3 4	Regen Temperature - Out of Range High Regen Temperature - Out of Range Low DOC Outlet Temp Low (Low Temp Regen) High Side Digital Output 1 Circuit Failed High High Side Digital Output 1 Circuit Failed Low High Side Digital Output 2 Circuit Failed High
3556 3556 3556 3597 3597 3598	1 18 3 4 3	Regen Temperature - Out of Range High Regen Temperature - Out of Range Low DOC Outlet Temp Low (Low Temp Regen) High Side Digital Output 1 Circuit Failed High High Side Digital Output 1 Circuit Failed Low High Side Digital Output 2 Circuit
3556 3556 3556 3597 3597 3598	1 18 3 4 3	Regen Temperature - Out of Range High Regen Temperature - Out of Range Low DOC Outlet Temp Low (Low Temp Regen) High Side Digital Output 1 Circuit Failed High High Side Digital Output 1 Circuit Failed Low High Side Digital Output 2 Circuit Failed High High Side Digital Output 2 Circuit Failed Low High Side Digital Output 3 Circuit
3556 3556 3556 3597 3597 3598 3598 3599	1 18 3 4 3 4 3	Regen Temperature - Out of Range High Regen Temperature - Out of Range Low DOC Outlet Temp Low (Low Temp Regen) High Side Digital Output 1 Circuit Failed High High Side Digital Output 1 Circuit Failed Low High Side Digital Output 2 Circuit Failed High High Side Digital Output 2 Circuit Failed Low High Side Digital Output 3 Circuit Failed Low High Side Digital Output 3 Circuit Failed High
3556 3556 3556 3597 3597 3598 3598	1 18 3 4 3 4	Regen Temperature - Out of Range High Regen Temperature - Out of Range Low DOC Outlet Temp Low (Low Temp Regen) High Side Digital Output 1 Circuit Failed High High Side Digital Output 1 Circuit Failed Low High Side Digital Output 2 Circuit Failed High High Side Digital Output 2 Circuit Failed Low High Side Digital Output 3 Circuit Failed High High Side Digital Output 3 Circuit Failed High High Side Digital Output 3 Circuit
3556 3556 3556 3597 3597 3598 3598 3599 3599	1 18 3 4 3 4 3 4	Regen Temperature - Out of Range High Regen Temperature - Out of Range Low DOC Outlet Temp Low (Low Temp Regen) High Side Digital Output 1 Circuit Failed High High Side Digital Output 1 Circuit Failed Low High Side Digital Output 2 Circuit Failed High High Side Digital Output 2 Circuit Failed Low High Side Digital Output 3 Circuit Failed High High Side Digital Output 3 Circuit Failed High High Side Digital Output 3 Circuit Failed Low Failed Low
3556 3556 3556 3597 3597 3598 3598 3599 3599 3609	1 18 3 4 3 4 3 4 3	Regen Temperature - Out of Range High Regen Temperature - Out of Range Low DOC Outlet Temp Low (Low Temp Regen) High Side Digital Output 1 Circuit Failed High High Side Digital Output 1 Circuit Failed Low High Side Digital Output 2 Circuit Failed High High Side Digital Output 2 Circuit Failed Low High Side Digital Output 3 Circuit Failed Low High Side Digital Output 3 Circuit Failed High High Side Digital Output 3 Circuit Failed Low DOC Inlet Pressure Circuit Failed High
3556 3556 3556 3597 3597 3598 3598 3599 3609 3609 3609	1 18 3 4 3 4 3 4	Regen Temperature - Out of Range High Regen Temperature - Out of Range Low DOC Outlet Temp Low (Low Temp Regen) High Side Digital Output 1 Circuit Failed High High Side Digital Output 1 Circuit Failed Low High Side Digital Output 2 Circuit Failed High High Side Digital Output 2 Circuit Failed High High Side Digital Output 3 Circuit Failed Low High Side Digital Output 3 Circuit Failed High High Side Digital Output 3 Circuit Failed High DOC Inlet Pressure Circuit Failed High DOC Inlet Pressure Circuit Failed Low
3556 3556 3556 3597 3597 3598 3598 3599 3609 3609 3609 3609	1 18 3 4 3 4 3 4 3 4 8	Regen Temperature - Out of Range High Regen Temperature - Out of Range Low DOC Outlet Temp Low (Low Temp Regen) High Side Digital Output 1 Circuit Failed High High Side Digital Output 1 Circuit Failed Low High Side Digital Output 2 Circuit Failed High High Side Digital Output 2 Circuit Failed High High Side Digital Output 3 Circuit Failed Low High Side Digital Output 3 Circuit Failed High High Side Digital Output 3 Circuit Failed High DOC Inlet Pressure Circuit Failed High DOC Inlet Pressure Circuit Failed Low DOC Inlet Pressure Signal Spike
3556 3556 3556 3597 3597 3598 3598 3599 3609 3609 3609	1 18 3 4 3 4 3 4	Regen Temperature - Out of Range High Regen Temperature - Out of Range Low DOC Outlet Temp Low (Low Temp Regen) High Side Digital Output 1 Circuit Failed High High Side Digital Output 1 Circuit Failed Low High Side Digital Output 2 Circuit Failed High High Side Digital Output 2 Circuit Failed High High Side Digital Output 3 Circuit Failed Low High Side Digital Output 3 Circuit Failed High High Side Digital Output 3 Circuit Failed High DOC Inlet Pressure Circuit Failed High DOC Inlet Pressure Circuit Failed Low

		ACM FAULT CODE
SPN	FMI	DESCRIPTION EPA10
3610	2	DPF Outlet Pressure Sensor - Not
		Plausible
3610	3	DPF Outlet Pressure Circuit Failed
0/10		High
3610	4 8	DPF Outlet Pressure Circuit Failed Low
3610 3610	10	DPF Outlet Pressure Signal Spike DPF Outlet Pressure Sensor Stuck
3711	31	Parked Regen Failed - DOC Temp In
0711	01	Low Preventing Dosing
3713	31	Parked Regen Failed - DOC Temp Out,
		Not Reaching Target Temp
3719	0	Soot Level Very High
3719	15	DPF Zone 3 Condition
3719	16	Soot Level High
3719 3720	31 15	DPF Zone 2 Condition DPF Ash Clean Request
3720	16	DPF Ash Derate Request
3936	0	DPF Pressure Drop High
3936	1	DPF Pressure Drop Low
3936	18	DPF Pressure - Out of Range Low
4100	13	MCM/ACM Software Not Compatable
4334	2	DEF Pressure Sensor - Drift
4334	3	DEF Pressure Sensor Circuit Failed
		High
4334	4	DEF Pressure Sensor Circuit Failed
4334	7	Low DEF Pressure Low
4334	8	DEF Pressure Signal Spike
4334	17	DEF Purge Pressure High
4335	1	DEF Air Pressure Not Detected (from
		vehicle supply)
4335	2	DEF Air Pressure Sensor - Drift
4335	3	DEF Air Pressure Sensor Circuit Failed
		High
4335	4	DEF Air Pressure Sensor Circuit Failed
1225	5	LOW
4335 4335	5 7	DEF Air Pressure Sensor not Plausible DEF Air Pressure Low
4335	8	DEF Air Pressure Low DEF Air Pressure Signal Spike
4335	14	DEF - Information Only
4335	31	DEF - Information Only
4336	3	Pressure Limiting Unit Circuit Failed
		High
4336	4	Pressure Limiting Unit Circuit Failed
		Low

SPN	FMI	ACM FAULT CODE DESCRIPTION EPA10
4336	5	Pressure Limiting Unit Circuit Failed
		Open
4337	1	SCR_ADS system Frozen
4337	2	DEF Dosing Unit Temperature - Drift
4337	3	DEF Temperature Sensor Circuit
		Failed High
4337	4	DEF Temperature Sensor Circuit
		Failed Low
4353	3	Diffuser Heater Circuit Failed High
4353	4	Diffuser Heater Circuit Failed Low
4353	5	Diffuser Heater Open Circuit
4354	3	SCR Line Heater #1 Circuit Failed High
4354	4	SCR Line Heater #1 Circuit Failed Low
4354	5	SCR Line Heater #1 Open Circuit
4355	3	SCR Line Heater #2 Circuit Failed High
4355	4	SCR Line Heater #2 Circuit Failed Low
4355	5	SCR Line Heater #2 Circuit Failed
1000	· ·	Open
4356	3	SCR Line Heater #3 Circuit Failed High
4356	4	SCR Line Heater #3 Circuit Failed Low
4356	5	SCR Line Heater #3 Circuit Failed
1000	Ü	Open
4357	3	SCR Line Heater #4 Circuit Failed High
4357	4	SCR Line Heater #4 Circuit Failed Low
4357	5	SCR Line Heater #4 Circuit Failed
1007	Ü	Open
4358	3	DEF General Heater Circuit Failed
1000	· ·	High
4358	4	DEF General Heater Circuit Failed Low
4358	5	DEF General Heater Circuit Failed
1000	Ü	Open
4360	3	SCR Inlet Temperature Sensor Circuit
		Failed High
4360	4	SCR Inlet Temperature Sensor Circuit
		Failed Low
4360	8	SCR Inlet Temperature - Signal Spike
4360	20	SCR Inlet Temperature Sensor Drift
1000		High in Range
4360	21	SCR Inlet Temperature Drift in Range
4363	0	SCR Outlet Temperature High
4363	3	SCR Outlet Temperature Sensor
		Circuit Failed High
4363	4	SCR Outlet Temperature Sensor
		Circuit Failed Low
4363	8	SCR Outlet Temperature - Signal Spike
		Tanata and a signal points

SPN	FMI	ACM FAULT CODE DESCRIPTION EPA10
4363	20	SCR Outlet Temperature Sensor Drift
		High in Range
4363	21	SCR Oulet Temperature Drift in Range
4364	1	SCR NOX Conversion Efficiency Very
		Low
4364	18	SCR NOX Conversion Efficiency Low
4375	3	DEF Pump Circuit Failed High
4375	4	DEF Pump Circuit Failed Low
4375	5	DEF Pump Circuit Failed Open
4375	6	DEF Pump Supply Current High
4792	14	SCR Catalyst Aged Level 1
4792	31	SCR Catalyst Aged Level 2
4795	31	DPF Pressure Differential
5016	3	Coolant Valve Supply Voltage Failed
5016	1	High
5010	4	Coolant Valve Supply Voltage Failed Low
5017	3	High Side Digital Output 5 Circuit
3017	3	Failed High
5017	4	High Side Digital Output 5 Circuit
3017	4	Failed Low
5246	0	Regulatory Fault Ignored - Final Action
3240	U	(Speed Limit)
5246	15	Regulatory Fault Ignored - Derate On
5246	16	Regulatory Fault Ignored - Final Action
02.0		Pending
5298	14	SCR Abnormal Temperature Rise
5397	31	DPF Regen Too Often
50230	4	Def Acumulator Failure
520231	13	Fuel Mass Signal Not Available via
		CAN
520232	9	NOx Mass Signal Not Available via
		CAN
520234	13	DEF Dosing Correction Factor Not
F000.10		Available via CAN
520249	4	SCR Inlet Temperature High
520252	14	DEF Tank Zone 4 Condition
520252	31	DEF Tank Zone 5 Condition
520279	3	EDU Temperature Sensor Signal
E20270	4	Failed High
520279	4	EDU Temperature Sensor Signal
E20200	2	Failed Low
520280	3	EDU Pressure Sensor Signal Failed
520280	4	High EDU Pressure Sensor Signal Failed
520200	4	Low
		LOW

		ACM FAULT CODE
SPN	FMI	DESCRIPTION EPA10
520282	3	EDU Dosing Valve Signal Failed High
520282	4	EDU Dosing Valve Signal Failed Low
520282	5	EDU Dosing Valve Signal Failed Open
520287	9	ACM DM1 Message Not Received at
		Dash Cluster

		MCM FAULT CODE
SPN	FMI	DESCRIPTION EPA10
51	2	Intake Throttle Position Deviation Error
51	3	Intake Air Throttle Circuit Failed High
51	4	Intake Air Throttle Circuit Failed Low
84	3	Vehicle Speed Sensor Circuit Failed
		High
84	4	Vehicle Speed Sensor Circuit Failed
		Low
94	3	Low Side Fuel Pressure Sensor Circuit
		Failed High
94	4	Low Side Fuel Pressure Sensor Circuit
		Failed Low
94	15	Fuel Filter Service Warning
94	16	Fuel Filter Replacement Required
96	2	Fuel Tank Level Sensor Stuck in
		Position
97	15	Water in Fuel
97	16	Water in Fuel Ignored - Derate
97	31	Water in Fuel Sensor - Defect
100	1	Engine Oil Pressure Low
100	3	Engine Oil Pressure Circuit Failed High
100	4	Engine Oil Pressure Circuit Failed Low
100	5	Oil Pressure Sensor Stuck High - low
		speed
100	17	Oil Pressure Low - Engine Start
103	2	Turbocharger Speed Not Plausible
108	3	Barometric Pressure Circuit Failed
		High
108	4	Barometric Pressure Circuit Failed Low
110	0	Coolant Temperature High
110	2	Coolant Outlet Temperature Not
		Plausible
110	3	Engine Coolant Outlet Temperature
		Circuit Failed High
110	4	Engine Coolant Outlet Temperature
		Circuit Failed Low
110	14	Coolant Temperature / Engine Oil
		Temperature Plausibility Fault
111	19	Coolant Level Low (CAN)
157	16	Fuel Rail Pressure Low
157	18	Fuel Rail Pressure High
158	2	Ignition Switch Not Plausible
164	3	Rail Pressure Sensor Circuit Failed
		High
164	4	Rail Pressure Sensor Circuit Failed
		Low

SPN	FMI	MCM FAULT CODE DESCRIPTION EPA10
164	5	Rail Pressure Sensor Circuit Failed
1/1	20	Open D'all's b
164	20	Rail Pressure Sensor - Drift High
164	21	Rail Pressure Sensor - Drift Low
168	0	Battery Voltage High
168	1	Battery Voltage Low
174	0	Fuel Temperature Too High Fuel Temperature Circuit Failed High
174 174	3 4	Fuel Temperature Circuit Failed High
175	0	Oil Temperature High Warning
175	3	Engine Oil Temperature Circuit Failed High
175	4	Engine Oil Temperature Circuit Failed Low
175	14	Engine Oil Temperature Sensor Plausibility Fault
175	15	Oil Temperature High Pre-Warning
190	0	Engine Speed High
191	13	J1939 Transmission Output Shaft Speed Signal is missing
191	19	J1939 Transmission Output Shaft Speed Signal is erratic
411	0	EGR Differential Pressure Too High (Low Box)
411	1	EGR Differential Pressure Too Low (High Box)
411	2	EGR Delta Pressure Sensor Out Of Calibration
411	3	EGR Delta Pressure Sensor Circuit High
411	4	EGR Delta Pressure Sensor Circuit Low
411	13	EGR Delta Pressure Sensor Out Of Calibration
523	13	J1939 Transmission Current Gear Signal is missing
523	19	J1939 Transmission Current Gear Signal is erratic
625	2	Invalid Data on Engine CAN Link
625	8	MCM UDS DM1 Message Not Received or has Stopped Arriving
625	9	No Data Received from Engine CAN Link
625	14	ACM UDS DM1 Message Not Received or has Stopped Arriving
625	17	No ACM Communication - Pre Warning

0011		MCM FAULT CODE
SPN	FMI	DESCRIPTION EPA10
625	18	No ACM Communication - Warning
636	1	Crankshaft Position Sensor Signal
		Voltage Too Low
636	2	No Match of Camshaft and Crankshaft
		Signals
636	3	Crankshaft Position Sensor Open
	ŭ	Circuit
636	8	Crankshaft Position Sensor Time Out
636	10	Crankshaft Position Sensor Signal
030	10	Erratic
636	11	Crankshaft Position Sensor Failure
647	3	Fan Stage 1 Circuit Failed High
647	4	Fan Stage 1 Circuit Failed Low
647	5	Fan Stage 1 Circuit Failed Open
651	3	Injector Cylinder #1 Needle Control
		Valve Abnormal Operation (MAX)
651	4	Injector Cylinder #1 Needle Control
		Valve Abnormal Operation (MIN)
651	6	Injector Cylinder #1 Needle Control
		Valve, Valve Shorted Circuit
652	3	Injector Cylinder #2 Needle Control
002	ŭ	Valve Abnormal Operation (MAX)
652	4	Injector Cylinder #2 Needle Control
002	7	Valve Abnormal Operation (MIN)
652	6	Injector Cylinder #2 Needle Control
032	U	Valve, Valve Shorted Circuit
653	3	
003	3	Injector Cylinder #3 Needle Control
/ F0		Valve Abnormal Operation (MAX)
653	4	Injector Cylinder #3 Needle Control
		Valve Abnormal Operation (MIN)
653	6	Injector Cylinder #3 Needle Control
		Valve, Valve Shorted Circuit
654	3	Injector Cylinder #4 Needle Control
		Valve Abnormal Operation (MAX)
654	4	Injector Cylinder #4 Needle Control
		Valve Abnormal Operation (MIN)
654	6	Injector Cylinder #4 Needle Control
		Valve, Valve Shorted Circuit
655	3	Injector Cylinder #5 Needle Control
,,,,		Valve Abnormal Operation (MAX)
655	4	Injector Cylinder #5 Needle Control
333	7	Valve Abnormal Operation (MIN)
655	6	Injector Cylinder #5 Needle Control
000	0	
/ [/	2	Valve, Valve Shorted Circuit
656	3	Injector Cylinder #6 Needle Control
		Valve Abnormal Operation (MAX)

		MCM FAULT CODE
SPN	FMI	DESCRIPTION EPA10
656	4	Injector Cylinder #6 Needle Control
		Valve Abnormal Operation (MIN)
656	6	Injector Cylinder #6 Needle Control
		Valve, Valve Shorted Circuit
677	2	Starter Switch Inconsistent
677	3	Engine Starter Relay Shorted to High
		Source
677	4	Engine Starter Relay Circuit Failed Low
677	5	Engine Starter Relay Open Circuit
677	7	Engine Starter Relay - Starter Does
		Not Engage
679	7	Pressure Limiting Valve, Failed to
		Close
705	3	Digital Output 1 13 Circuit Failed High
705	4	Digital Output 1 13 Circuit Failed Low
710	3	Digital Output 4 06 Circuit Failed High
710	4	Digital Output 4 06 Circuit Failed Low
723	8	Camshaft Position Sensor Time Out
723	10	Camshaft Position Sensor Signal
		Erratic
723	11	Camshaft Position Sensor Failure
1071	3	Fan Stage 2 Circuit Failed High
1071	4	Fan Stage 2 Circuit Failed Low
1071	5	Fan Stage 2 Circuit Failed Open
1072	3	Jake Brake Stage 1 Circuit Failed High
1072	4	Jake Brake Stage 1 Circuit Failed Low
1072	5	Jake Brake Stage 1 Circuit Failed
1070	2	Open
1073	3	Jake Brake Stage 2 Circuit Failed High
1073	4 5	Jake Brake Stage 2 Circuit Failed Low
1073	5	Jake Brake Stage 2 Circuit Failed
1077	5	Open
10//	5	Quantity Control Valve Error, Current Too Low
1077	6	Quantity Control Valve, Current Too
1077	0	High
1077	14	Leakage in High Pressure Fuel System
1077	14	Too High (Leak Down Test)
1231	9	ACM Message Not Received or has
1231	,	Stopped Arriving
1636	0	Charge Air Cooler Low Efficiency
1636	2	Engine Air Temperature - Plausibility
1000		Fault Out of Range (Low Box)
1636	3	Intake Manifold Temperature Circuit
1000	- 0	Failed High
		r dilod r ligit

SPN	FMI	MCM FAULT CODE DESCRIPTION EPA10
1636	4	Intake Manifold Temperature Circuit
1420	2	Failed Low
1639 2630	2	Fan Speed Fault
2030	3	Charge Air Cooler Outlet Temperature Circuit Failed High
2630	4	Charge Air Cooler Outlet Temperature
2030	4	Circuit Failed Low
2630	16	Charge Air Cooler Performance
2000	. •	Monitor
2631	1	Low Air Flow
2659	0	EGR Flow Target Error Diagnostic -
		High Flow
2659	18	EGR Flow Target Error Diagnostic -
		Low Flow
2791	7	EGR Valve Actuator, Failsafe Mode,
2701	0	Motor On
2/91	9	
2701	1/	
2171	17	
2791	16	
2771	.0	
2797	3	Injector Needle Control Valve Cylinder
		1,2,3 Shorted to Battery
2797	4	
2798	3	
2700	4	
2798	4	
2161	2	
		Fault
3471	3	HC Doser Circuit Failed High
3471	4	HC Doser Circuit Failed Low
3471	5	HC Doser Circuit Failed Open
3480	0	Fuel Compensation Pressure High
3480	3	
3/180	4	
3400	4	
3480	14	Doser FLP Sensors Failed Self Test
2797 2798 2798 3464 3464 3464 3471 3471 3471 3480 3480 3480 3480	4 3 4 5 3 1 5 3 1 5 0 1 2 3 4	1,2,3 Shorted to Battery Injector Needle Control Valve Cylinder 1, 2, 3 Shorted to Ground Injector Needle Control Valve Cylinder 4,5,6, Shorted to Battery Injector Needle Control Valve Cylinder 4,5,6 Shorted to Ground H Bridge 1 Circuit Shorted to Battery H Bridge 1 Circuit Shorted to Ground H Bridge 1 Circuit Open Load Intake Air Throttle Control Electrical Fault HC Doser Circuit Failed High HC Doser Circuit Failed Low HC Doser Circuit Failed Open Fuel Compensation Pressure High Doser Fuel Supply Pressure Abnormal Doser Fuel Line Pressure Low Fuel Compensation Pressure Sensor Circuit Failed High Fuel Compensation Pressure Sensor Circuit Failed Low

SPN	FMI	MCM FAULT CODE DESCRIPTION EPA10
3480	31	Fuel Cut Off Valve Pressure Not Plausible
3482 3482 3482	3 4 5	Fuel Cut Off Valve Circuit Failed High Fuel Cut Off Valve Circuit Failed Low Fuel Cut Off Valve Circuit Failed Open
3509	3	5V Sensor Supply Bank 1 Circuit Failed High
3509	4	5V Sensor Supply Bank 1 Circuit Failed Low
3510	3	5V Sensor Supply Bank 2 Circuit Failed High
3510	4	5V Sensor Supply Bank 2 Circuit Failed Low
3511	3	3V Sensor Supply Bank 1 Circuit Failed High
3511	4	3V Sensor Supply Bank 1 Circuit Failed Low
3512	3	3V Sensor Supply Bank 2 Circuit Failed High
3512 3563	3	3V Sensor Supply Bank 2 Circuit Failed Low Intake Manifold Pressure Circuit Failed
3563	4	High Intake Manifold Pressure Circuit Failed
25/2	10	Low
3563 3563	18 20	Inlet Manifold Pressure Failed Low Ambient and Inlet Manifold Pressure Difference (Low Box)
3597	3	Proportional Valve Bank 1 Circuit Failed High
3597	4	Proportional Valve Bank 1 Circuit Failed Low
3598	3	Proportional Valve Bank 2 Circuit Failed High
3598	4	Proportional Valve Bank 2 Circuit Failed Low
3599	3	MCM Internal Injector Power Supply Failed High
3599	4	MCM Internal Injector Power Supply Failed Low
3659	3	Injector Cylinder #1 Amplifier Control Valve Abnormal Operation (MAX)
3659	4	Injector Cylinder #1 Amplifier Control Valve Abnormal Operation (MIN)
3659	6	Injector Cylinder #1 Amplifier Control Valve, Valve Shorted Circuit

SPN	FMI	MCM FAULT CODE DESCRIPTION EPA10
3660	3	Injector Cylinder #2 Amplifier Control
		Valve Abnormal Operation (MAX)
3660	4	Injector Cylinder #2 Amplifier Control
		Valve Abnormal Operation (MIN)
3660	6	Injector Cylinder #2 Amplifier Control
		Valve, Valve Shorted Circuit
3661	3	Injector Cylinder #3 Amplifier Control
		Valve Abnormal Operation (MAX)
3661	4	Injector Cylinder #3 Amplifier Control
		Valve Abnormal Operation (MIN)
3661	6	Injector Cylinder #3 Amplifier Control
		Valve, Valve Shorted Circuit
3662	3	Injector Cylinder #4 Amplifier Control
		Valve Abnormal Operation (MAX)
3662	4	Injector Cylinder #4 Amplifier Control
		Valve Abnormal Operation (MIN)
3662	6	Injector Cylinder #4 Amplifier Control
		Valve, Valve Shorted Circuit
3663	3	Injector Cylinder #5 Amplifier Control
		Valve Abnormal Operation (MAX)
3663	4	Injector Cylinder #5 Amplifier Control
		Valve Abnormal Operation (MIN)
3663	6	Injector Cylinder #5 Amplifier Control
		Valve, Valve Shorted Circuit
3664	3	Injector Cylinder #6 Amplifier Control
		Valve Abnormal Operation (MAX)
3664	4	Injector Cylinder #6 Amplifier Control
		Valve Abnormal Operation (MIN)
3664	6	Injector Cylinder #6 Amplifier Control
		Valve, Valve Shorted Circuit
3716	31	High Idle Regen - Low Temperature
4077	0	Doser Fuel Line Pressure High
4077	3	Doser Fuel Line Pressure Sensor
		Circuit Failed High
4077	4	Doser Fuel Line Pressure Sensor
		Circuit Failed Low
4077	14	Doser Fuel Line Pressure Failed Self
		Test
4193	2	Coolant Inlet Temperature Not
		Plausible
4193	3	Engine Coolant Inlet Temperature
		Circuit Failed High
4193	4	Engine Coolant Inlet Temperature
		Circuit Failed Low
4257	3	Injector Amplifier Control Valve
		Cylinder 1, 2, 3 Shorted to Battery

SPN	FMI	MCM FAULT CODE DESCRIPTION EPA10
4257	4	Injector Amplifier Control Valve
		Cylinder 1, 2, 3 Shorted to Ground
4258	3	Injector Amplifier Control Valve
		Cylinder 4, 5, 6 Shorted to Battery
4258	4	Injector Amplifier Control Valve
		Cylinder 4, 5, 6 Shorted to Ground
4752	0	EGR Cooler Low Efficiency
4752	31	EGR Cooler Performance Monitor
5418	3	Quantity Control Valve (Low Side)
		Error
5418	4	Quantity Control Valve (High Side)
		Error
65279	15	Water-In-Fuel (WIF) ignored – derate
65279	16	Water-In-Fuel (WIF) ignored -
		shutdown
520250	4	Quantity Control Valve (QCV) low side
		driver error

0011		CPC FAULT CODE
SPN	FMI	DESCRIPTION EPA10
70	2	Park Brake Status Not Plausible
		(Vehicle Moving)
70	13	J1939 Park Brake Switch Signal from
		Sources #1, #2, or #3 is missing
70	19	J1939 Park Brake Switch Signal from
		Sources #1, #2, or #3 is erratic
84	0	Vehicle Speed Above Programmable
		Threshold1 While Driving
84	3	Vehicle Speed Sensor Circuit Failed
		High
84	4	Vehicle Speed Sensor Circuit Failed
		Low
84	6	VSS Anti-Tamper Detection via ABS
		Vehicle Speed Comparison
84	11	Vehicle Speed Above Programmable
		Threshold2 While Driving
84	13	J1939 Wheel-Based Vehicle Speed
		Signal from Sources #1, #2, or #3 is
		missing
84	19	J1939 Wheel-Based Vehicle Speed
0.		Signal from Sources #1, #2, or #3 is
		erratic
84	20	Vehicle Speed Sensor Drifted High
0.		Error (VSS signal not plausible)
84	21	Vehicle Speed Failure
91	0	Accelerator Pedal Circuit Failed High
91	2	Accelerator Pedal Learn Error
91	3	Accelerator Pedal Signal Circuit Failed
, ·	Ü	High
91	4	Accelerator Pedal Circuit Failed Low
91	7	Pwm Accelerator Pedal Idle Not
, ·	•	Recognized
91	8	Pwm Accelerator Pedal Signal 1
, ,	Ŭ	Frequency Out Of Range
91	13	J1939 EEC2 Message is missing
91	14	Pwm Accelerator Pedal Not Learned
91	31	Pwm Accelerator Pedal Learned
, i	01	Range to Large
98	0	Oil Level High
98	1	Oil Level Very Low
98	18	Oil Level Low
100	1	Oil Pressure Very Low
100	18	Oil Pressure Low
107	0	Air Filter Restriction High
110	0	Coolant Temperature Very High
110	16	Coolant Temperature Very High
110		Occident Formporataro Flight

SPN	FMI	CPC FAULT CODE DESCRIPTION EPA10
111	1	Coolant Level Very Low
111	3	Coolant Level Circuit Failed High
111	4	Coolant Level Circuit Failed Low
111	18	Coolant Level Low
120	13	J1939 Retarder Fluid Message is missing
158	2	KI15 ignition switch status of CPC2 and
130	۷	MCM do not match
168	0	Battery Voltage High
168	1	Battery Voltage Very Low
168	7	Opt Idle Detected Charging System or
		Battery Failure
168	14	ECU powerdown not completed (Main
4.0	40	Battery Terminal Possibly Floating)
168	18	Battery Voltage Low
171	2	Ambient Temperature Sensor Data Erratic
171	9	J1587 Ambient Air Temp Sensor Data
171	7	Message Stopped Arriving
171	14	J1587 Ambient Air Temp Sensor Data
		Not Received This Ign Cycle
191	9	J1939 ETC1 Message is missing
191	13	J1939 Transmission Output Shaft
		Speed Signal is missing
191	19	J1939 Transmission Output Shaft
0.47		Speed Signal is erratic
247	0	MCM Engine Hours Data higher than expected
247	1	MCM Engine Hours Data lower than
2.,,	·	expected
247	9	MCM Engine Hours Data not received
		or stopped arriving
247	10	MCM Engine Hours Data increasing at
247	14	an implausible rate ACM Reported Ash Mileage is Lower
247	14	then the CPC Stored Value
523	13	J1939 Transmission Current Gear
		Signal is missing
523	19	J1939 Transmission Current Gear
		Signal is erratic
524	9	J1939 ETC2 Message is missing
527	9	J1939 CCVS Message is missing
556	9	J1939 RC Message from Transmission
EEO	2	Retarder is missing
558	2	Idle Validation Switch Inputs Reversed

		CPC FAULT CODE
SPN	FMI	DESCRIPTION EPA10
558	3	Idle Validation Switch 1 Circuit Failed
556	3	High
558	4	Idle Validation Switch 1 Circuit Failed
556	4	Low
558	5	Idle Validation Switch 2 Circuit Failed
228	5	
EEO	4	Low Idle Validation Switch 2 Circuit Failed
558	6	
596	13	High J1939 Cruise Control Enable Switch
390	13	Signal from Sources #1, #2, or #3 is
		missing
596	19	J1939 Cruise Control Enable Switch
390	19	
		Signal from Sources #1, #2, or #3 is erratic
597	2	Service Brake Status Not Plausible
597	13	J1939 Service Brake Switch Signal
397	13	
E07	19	from Sources #1, #2, or #3 is missing
597	19	J1939 Service Brake Switch Signal
599	4	from Sources #1, #2, or #3 is erratic Cruise Control SET and RESUME
599	4	
600	13	Circuits Failed Low J1939 Cruise Control Coast Switch
000	13	
		Signal from Sources #1, #2, or #3 is missing
600	19	J1939 Cruise Control Coast Switch
000	17	Signal from Sources #1, #2, or #3 is
		erratic
602	13	J1939 Cruise Control Accelerate
002	13	Switch Signal from Sources #1, #2, or
		#3 is missing
602	19	J1939 Cruise Control Accelerate
002	17	Switch Signal from Sources #1, #2, or
		#3 is erratic
608	14	J1708 Data Link Failure
609	12	CPC2 Hardware Failure
625	2	Incorrect MCM System ID Received
625	4	ECAN Link Circuit Failure
625	8	MCM PT-CAN DM1 Message Not
020	, and the second	Received or has Stopped Arriving
625	9	ACM PT-CAN DM1 Message Not
		Received or has Stopped Arriving
625	14	MCM System ID Not Received or
		Stopped Arriving
628	2	EEPROM Checksum Failure
628	12	EEPROM Checksum Failure for the
		SCR Block

		CPC FAULT CODE
SPN	FMI	DESCRIPTION EPA10
628	14	XFLASH Static Fault Code Memory
		Page Read Write Failure
628	17	1000ms ECU OS Task Timed out Prior
		to Completion
629	2	CPC Hardware/Software Mismatch
629	12	DDEC Data Xflash Write Error.
		Replace CPC2.
630	13	SCR Number Out of Range
639	9	J1939 PROP11 message is missing
639	13	HDMS Fan is configured and the J1939
		message was not received or has
		stopped arriving.
639	14	J1939 Data Link Failure
701	3	Digital Output 4 09 Circuit Failed High
701	4	Digital Output 4 09 Circuit Failed Low
702	3	Digital Output 3 17 Circuit Failed High
702	4	Digital Output 3 17 Circuit Failed Low
703	3	Digital Output 3 09 Circuit Failed High
703	4	Digital Output 3 09 Circuit Failed Low
704	3	Digital Output 4 07 Circuit Failed High
704	4	Digital Output 4 07 Circuit Failed Low
705	3	Digital Output 1 13 Circuit Failed High
705	4	Digital Output 1 13 Circuit Failed Low
706	3	Digital Output 3 10 Circuit Failed High
706	4	Digital Output 3 10 Circuit Failed Low
707	3	Digital Output 2 10 Circuit Failed High
707	4	(CEL / AWL Lamp)
707	4	Digital Output 2 10 Circuit Failed Low
700	2	(CEL / AWL Lamp)
708 708	3 4	Digital Output 3 12 Circuit Failed High
708	3	Digital Output 3 12 Circuit Failed Low
709	3 4	Digital Output 3 16 Circuit Failed High Digital Output 3 16 Circuit Failed Low
710	3	Digital Output 3 To Circuit Failed Low Digital Output 4 06 Circuit Failed High
710	4	Digital Output 4 06 Circuit Failed Flow
710	3	Digital Output 4 06 Circuit Failed Low Digital Output 1 05 Circuit Failed High
711	4	Digital Output 1 05 Circuit Failed Flight Digital Output 1 05 Circuit Failed Low
711	3	Digital Output 1 03 Circuit Failed Low Digital Output 1 04 Circuit Failed High
712	4	Digital Output 1 04 Circuit Failed Flight Digital Output 1 04 Circuit Failed Low
712	3	Digital Output 3 07 Circuit Failed High
713	4	Digital Output 3 07 Circuit Failed Flight
713	5	Digital Output 3 07 Open Circuit
713	7	TOP2 Shift Failure
714	3	Digital Output 3 08 Circuit Failed High
714	4	Digital Output 3 08 Circuit Failed Low
714	5	Digital Output 3 08 Open Circuit
		- g o atpar o oo opon onoan

SPN	FMI	CPC FAULT CODE DESCRIPTION EPA10
715	3	Digital Output 4 10 Circuit Failed High
904	9	J1939 EBC2 Message from ABS is
		missing
904	13	J1939 Front Axle Speed Signal is
		missing
904	19	J1939 Front Axle Speed Signal is
		erratic
972	2	Throttle inhibit switch signal not
	_	plausible due to excess vehicle speed
973	2	Evobus 5stage retarder level position
770	_	not plausible
973	9	J1939 EBC1 Message is missing
973	13	J1939 Engine Retarder Selection
773	10	Signal Missing
973	19	J1939 Engine Retarder Selection
713	17	Signal Erratic
974	2	Remote Accelerator Pedal Supply
774	۷	Voltage Out of Range
974	3	Remote Accelerator Pedal Circuit
7/4	3	Failed High
974	4	Remote Accelerator Pedal Circuit
974	4	Failed Low
979	9	J1939 PTO Message Not Received
919	9	This Ignition Cycle
986	9	J1939 CM1 Message is missing
986	13	J1939 CM1 SPN986 Signal from
700	13	source #1 or #2 is missing
986	19	J1939 CM1 SPN986 Signal from
900	19	source #1 or #2 is erratic
1267	3	Digital Output 4 10 Circuit Failed Open
1267	4	Digital Output 4 10 Circuit Failed Cow
1590	9	Adaptive Cruise Control Message Not
1370	7	Received
1590	19	Adaptive Cruise Control Device
1390	19	Reporting Error
1624	9	J1939 TCO1 Message is missing
1624	13	
1024	13	J1939 Tachograph Vehicle Speed
1424	10	Signal is missing
1624	19	J1939 Tachograph Vehicle Speed
1662	7	Signal is erratic
1663	7	Optimized Idle Safety Loop Faulted
1716	-	J1939 ERC1 Message is missing
1716	13	Evobus 5stage retarder level
1014	0	calibration not plausible
1814	9	VDC1 Message was not received or
		has stopped arriving.

SPN	FMI	CPC FAULT CODE DESCRIPTION EPA10
1845	9	J1939 TCFG2 Message is missing
2003	9	J1939 Message is missing from source
2017	9	address 3 (dec) J1939 Message is missing from source
2023	9	address 17 (dec) J1939 Message is missing from source
	7	address 23 (dec)
2025	9	J1939 Message is missing from source address 25 (dec)
2033	9	J1939 Message is missing from source
2042	9	address 33 (dec) J1939 Message is missing from source
2049	9	address 42 (dec) J1939 Message is missing from source
		address 49 (dec)
2623	8	Pwm Accelerator Pedal Signal 2
		Frequency Out Of Range
2623	14	Pwm Accelerator Pedal GAS1 and
2020	• •	GAS2 Signal Missing
2900	9	J1939 ETC7 Message is missing
3510	3	Accelerator Pedal Supply Voltage
3310	J	Circuit Failed High
3510	4	Accelerator Pedal Supply Voltage Circuit Failed Low
3510	7	Accelerator Pedal Supply Voltage
		Circuit Failed High
3510	8	Pwm Accelerator Pedal Supply Voltage Missing
3606	9	J1939 ESS Message is missing
3695	9	DPF Regen Inhibit MUX Switch Message Stopped Arriving
3695	13	DPF Regen Inhibit MUX Switch
		Message Contains SNV Indicator
3695	14	DPF Regen Inhibit MUX Switch Message Not Received this Ign Cycle
3695	19	DPF Regen Inhibit MUX Switch
3696	9	Message Contains Data Error Indicator DPF Regen Force MUX Switch
		Message Stopped Arriving
3696	13	DPF Regen Force MUX Switch Message Contains SNV Indicator
3696	14	Message Contains SNV Indicator DPF Regen Force MUX Switch
		Message Not Received this Ign Cycle
3696	19	DPF Regen Force MUX Switch
		Message Contains Data Error Indicator

SPN	FMI	CPC FAULT CODE DESCRIPTION EPA10
4041	0	20ms ECU OS Task Locked in an Endless Loop
4041	9	20ms ECU OS Task Timed out Prior to Completion
4041	16	1000ms ECU OS Task Locked in an Endless Loop
524287	1	Evobus cruise control lever position not plausible
524287	9	Predictive Cruise Control Message Not Received
524287	19	Predictive Cruise Control Device Reporting Error

SPN	FMI	CPC FAULT CODE DESCRIPTION EPA07
70	2	Park Brake Status Not Plausible
		(Vehicle Moving)
70	13	J1939 Park Brake Switch Signal from
70	10	Source #1 is missing
70	13	J1939 Park Brake Switch Signal from
70	10	Source #2 is missing
70	13	J1939 Park Brake Switch Signal from Source #3 is missing
70	19	J1939 Park Brake Switch Signal from
70	17	Source #1 is erratic
70	19	J1939 Park Brake Switch Signal from
, 0		Source #2 is erratic
70	19	J1939 Park Brake Switch Signal from
		Source #3 is erratic
84	0	Vehicle Speed Above Programmable
		Threshold 1 While Driving
84	2	VSS Anti Tamper Detection via Virtual
		Gear Ratio
84	3	Vehicle Speed Sensor Circuit Failed
0.4		High
84	4	Vehicle Speed Sensor Circuit Failed
0.4	<i>L</i>	LOW
84	6	VSS Anti-Tamper Detection via ABS Vehicle Speed Comparison
84	8	VSS Anti Tamper Detection via Fixed
04	U	Frequency Device
84	11	Vehicle Speed Above Programmable
		Threshold2 While Driving
84	13	J1939 Wheel-Based Vehicle Speed
		Signal from Source#1 is missing
84	13	J1939 Wheel-Based Vehicle Speed
		Signal from Source#2 is missing
84	13	J1939 Wheel-Based Vehicle Speed
0.4	10	Signal from Source#3 is missing
84	19	J1939 Wheel-Based Vehicle Speed
0.4	10	Signal from Source#1 is erratic
84	19	J1939 Wheel-Based Vehicle Speed
84	19	Signal from Source#2 is erratic J1939 Wheel-Based Vehicle Speed
04	17	Signal from Source#3 is erratic
84	20	Vehicle Speed Sensor Drifted High
		Error (VSS signal not plausible)
84	21	Vehicle Speed Failure
91	3	Accelerator Pedal Circuit Failed High
91	3	Accelerator Pedal Signal Circuit Failed
		High

SPN	FMI	CPC FAULT CODE DESCRIPTION EPA07
91	4	Accelerator Pedal Circuit Failed Low
91	7	2-Channel Accelerator Pedal Idle Not
		Recognized
91	8	2-Channel Accelerator Pedal Signal 1
71	U	Missing
91	9	J1939 Retarder Fluid Message is
71	7	missing
91	9	
		J1939 EEC2 Message is missing Accelerator Pedal Learn Error
91	13	
91	14	2-Channel Accelerator Pedal Not
		Learned
91	31	2-Channel Accelerator Pedal Learned
		Range to Large
98	0	Oil Level High
98	1	Oil Level Very Low
98	18	Oil Level Low
100	1	Oil Pressure Very Low
100	18	Oil Pressure Low
107	0	Air Filter Restriction High
110	0	Coolant Temperature Very High
110	16	Coolant Temperature High
111	1	Coolant Level Very Low
111	3	Coolant Level Circuit Failed High
111	4	Coolant Level Circuit Failed Low
111	18	Coolant Level Low
158	2	KI15 ignition switch status of CPC2 and
		MCM do not match
168	0	Battery plausibility error or Cascadia
		main battery switch off while key on
168	0	Battery Voltage High
168	14	Opt Idle Detected Charging System or
100		Battery Failure
168	14	ECU powerdown not completed (Main
100	1-7	Battery Terminal Possibly Floating)
168	18	Battery Voltage Low
171	2	Ambient Temperature Sensor Data
171	2	Erratic
171	9	
171	9	J1587 Ambient Air Temp Sensor Data
171	11	Message Stopped Arriving
171	14	J1587 Ambient Air Temp Sensor Data
101	0	Not Received This Ign Cycle
191	9	J1939 ETC1 Message is missing
191	13	J1939 Transmission Output Shaft
		Speed Signal is missing
191	19	J1939 Transmission Output Shaft
		Speed Signal is erratic

		CPC FAULT CODE
SPN	FMI	DESCRIPTION EPA07
247	0	MCM Engine Hours Data higher than
277	U	expected
247	1	MCM Engine Hours Data lower than
217	•	expected
247	9	MCM Engine Hours Data not received
217	,	or stopped arriving
247	10	MCM Engine Hours Data increasing at
		an implausible rate
247	14	MCM Reported Ash Mileage is Lower
		then the CPC Stored Value
523	13	J1939 Transmission Current Gear
		Signal is missing
523	19	J1939 Transmission Current Gear
		Signal is erratic
524	9	J1939 ETC2 Message is missing
527	9	J1939 CCVS Message from Source #1
		is missing
527	9	J1939 CCVS Message from Source #2
F07	•	is missing
527	9	J1939 CCVS Message from Source #3
FF0	2	is missing
558 558	2	Idle Validation Switch Inputs Reversed Idle Validation Switch 1 Circuit Failed
556	3	High
558	4	Idle Validation Switch 1 Circuit Failed
330	7	Low
558	5	Idle Validation Switch 2 Circuit Failed
		Low
558	6	Idle Validation Switch 2 Circuit Failed
		High
596	13	J1939 Cruise Control Enable Switch
		Signal from Source #1 is missing
596	13	J1939 Cruise Control Enable Switch
		Signal from Source #2 is missing
596	13	J1939 Cruise Control Enable Switch
F0/	10	Signal from Source #3 is missing
596	19	J1939 Cruise Control Enable Switch
E04	19	Signal from Source #1 is erratic
596	19	J1939 Cruise Control Enable Switch Signal from Source #2 is erratic
596	19	J1939 Cruise Control Enable Switch
370	17	Signal from Source #3 is erratic
597	2	Service Brake Status Not Plausible
597	13	J1939 Service Brake Switch Signal
		from Source #1 is missing

		CPC FAULT CODE
SPN	FMI	DESCRIPTION EPA07
597	13	J1939 Service Brake Switch Signal
		from Source #2 is missing
597	13	J1939 Service Brake Switch Signal
		from Source #3 is missing
597	19	J1939 Service Brake Switch Signal
F07	19	from Source #1 is erratic
597	19	J1939 Service Brake Switch Signal from Source #2 is erratic
597	19	J1939 Service Brake Switch Signal
377	17	from Source #3 is erratic
599	4	Cruise Control SET and RESUME
		Circuits Failed Low
600	13	J1939 Cruise Control Coast Switch
		Signal from Source #1 is missing
600	13	J1939 Cruise Control Coast Switch
400	10	Signal from Source #2 is missing
600	13	J1939 Cruise Control Coast Switch
600	19	Signal from Source #3 is missing J1939 Cruise Control Coast Switch
000	17	Signal from Source #1 is erratic
600	19	J1939 Cruise Control Coast Switch
000	1,7	Signal from Source #2 is erratic
600	19	J1939 Cruise Control Coast Switch
		Signal from Source #3 is erratic
602	13	J1939 Cruise Control Accelerate
		Switch Signal from Source #1 is
	40	missing
602	13	J1939 Cruise Control Accelerate
		Switch Signal from Source #2 is missing
602	13	J1939 Cruise Control Accelerate
002	10	Switch Signal from Source #3 is
		missing
602	19	J1939 Cruise Control Accelerate
		Switch Signal from Source #1 is erratic
602	19	J1939 Cruise Control Accelerate
100	46	Switch Signal from Source #2 is erratic
602	19	J1939 Cruise Control Accelerate
600	14	Switch Signal from Source #3 is erratic J1708 Data Link Failure
608	12	CPC2 Hardware Failure
625	2	ECAN ID_1629 Diagnostic Message
525		Reporting Data Not Available
625	4	ECAN Link Circuit Failure
625	9	ECAN ID_1629 Diagnostic Message
		No Longer Being Received

		CPC FAULT CODE
SPN	FMI	DESCRIPTION EPA07
625	9	Incorrect MCM System ID Received
625	9	MCM System ID Not Received or
		Stopped Arriving
625	10	ECAN ID_1629 Reporting Inconsistent
		Number of Frames
625	13	ECAN ID_1629 Diagnostic Message
		Not Received This Ignition Cycle
625	14	ECAN ID_1629 Diagnostic Message
400	10	Reporting an Unknown MUID
628	13	20ms ECU OS Task Locked in an
/ 00	10	Endless Loop
628	13	20ms ECU OS Task Timed out Prior to
/ 20	10	Completion
628	13	1000ms ECU OS Task Locked in an
628	13	Endless Loop 1000ms ECU OS Task Timed out Prior
028	13	to Completion
628	14	XFLASH Static Fault Code Memory
020	14	Page Read Write Failure
629	2	CPC Hardware/Software Mismatch
629	12	DDEC Data Xflash Write Error.
027	12	Replace CPC2
630	2	EEPROM Checksum Failure
630	2	EEPROM Checksum Failure for the
030		SCR Block
630	13	SCR Number Out of Range
630	14	MCM Fault Codes Unavailable via
		J1939 and J1587
630	14	MCM Fault Code Table Inconsistant -
		Upgrade MCM Software
630	14	Insufficient Static Fault Code Storrage
		Memory - Upgrade CPC Software
630	14	MCM Fault Code Table Inconsistant -
		Upgrade MCM Software
639	9	J1939 PROP11 message is missing
639	14	J1939 Data Link Failure
639	14	HDMS Fan is configured and the J1939
		message was not received or has
		stopped arriving.
701	3	Digital Output 4 09 Circuit Failed High
701	4 3 4	Digital Output 4 09 Circuit Failed Low
702	3	Digital Output 3 17 Circuit Failed High
702	3	Digital Output 3 17 Circuit Failed Low
703	3	Digital Output 3 09 Circuit Failed High
703	4	Digital Output 3 09 Circuit Failed Low
704	3	Digital Output 4 07 Circuit Failed High

704 4 Digital Output 4 07 Circuit Failed Low 705 3 Digital Output 1 13 Circuit Failed High 706 4 Digital Output 3 10 Circuit Failed High 706 4 Digital Output 3 10 Circuit Failed High 707 3 Digital Output 3 10 Circuit Failed High 708 4 Digital Output 2 10 Circuit Failed High 709 4 Digital Output 2 10 Circuit Failed Low 709 3 Digital Output 3 12 Circuit Failed High 709 4 Digital Output 3 12 Circuit Failed High 709 4 Digital Output 3 12 Circuit Failed High 709 4 Digital Output 3 16 Circuit Failed Low 710 3 Digital Output 3 16 Circuit Failed Low 710 3 Digital Output 3 16 Circuit Failed High 710 4 Digital Output 4 06 Circuit Failed Low 711 3 Digital Output 1 05 Circuit Failed Low 712 3 Digital Output 1 05 Circuit Failed High 713 4 Digital Output 1 05 Circuit Failed Low 714 3 Digital Output 1 07 Circuit Failed Low 715 3 Digital Output 1 07 Circuit Failed Low 716 Digital Output 1 08 Circuit Failed Low 717 Digital Output 1 09 Circuit Failed Low 718 Digital Output 1 09 Circuit Failed Low 719 Digital Output 1 09 Circuit Failed Low 710 Digital Output 3 07 Circuit Failed Low 711 Digital Output 3 07 Circuit Failed Low 712 Digital Output 3 08 Circuit Failed Low 713 Digital Output 3 08 Circuit Failed Low 714 Digital Output 3 08 Circuit Failed Low 715 Digital Output 3 08 Circuit Failed High 714 Digital Output 3 08 Circuit Failed High 715 Digital Output 3 08 Circuit Failed High 716 Digital Output 3 08 Circuit Failed High 717 Digital Output 3 08 Circuit Failed High 718 Digital Output 3 08 Circuit Failed Low 719 Digital Output 3 08 Circuit Failed High 710 Digital Output 3 08 Circuit Failed Low 711 Digital Output 3 08 Circuit Failed High 712 Digital Output 3 08 Circuit Failed High 713 Digital Output 3 08 Circuit Failed Low 714 Digital Output 3 08 Circuit Failed High 715 Digital Output 3 08 Circuit Failed Low 716 Digital Output 3 08 Circuit Failed Low 717 Digital Output 3 08 Circuit Failed Low 718 Digital Output 3 08 Circuit Failed Low 719 Digital Output 3 Outp	SPN	FMI	CPC FAULT CODE DESCRIPTION EPA07
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904 13 J1939 Front Axle Speed Signal is missing 904 19 J1939 Front Axle Speed Signal is erratic 972 2 Throttle inhibit switch signal not plausible due to excess vehicle speed 973 2 Evobus 5stage retarder lever position not plausible 973 9 J1939 EBC1 Message is missing 973 13 J1939 Engine Retarder Selection Signal Missing 973 19 J1939 Engine Retarder Selection Signal Erratic 974 2 Remote Accelerator Pedal Supply Voltage Out of Range 974 3 Remote Accelerator Pedal Circuit	904	9	J1939 EBC2 Message from ABS is
904 19 J1939 Front Axle Speed Signal is erratic 972 2 Throttle inhibit switch signal not plausible due to excess vehicle speed 973 2 Evobus 5stage retarder lever position not plausible 973 9 J1939 EBC1 Message is missing 973 13 J1939 Engine Retarder Selection Signal Missing 973 19 J1939 Engine Retarder Selection Signal Erratic 974 2 Remote Accelerator Pedal Supply Voltage Out of Range 974 3 Remote Accelerator Pedal Circuit	904	13	J1939 Front Axle Speed Signal is
erratic 972 2 Throttle inhibit switch signal not plausible due to excess vehicle speed 973 2 Evobus 5stage retarder lever position not plausible 973 9 J1939 EBC1 Message is missing 973 13 J1939 Engine Retarder Selection Signal Missing 973 19 J1939 Engine Retarder Selection Signal Erratic 974 2 Remote Accelerator Pedal Supply Voltage Out of Range 974 3 Remote Accelerator Pedal Circuit			
plausible due to excess vehicle speed Fvobus 5stage retarder lever position not plausible Fvobus 5stage retarder lever position not plausible Fvobus 5stage retarder lever position not plausible Fvobus 5stage retarder lever position Retarder Selection Signal Missing Fvobus 19 J1939 Engine Retarder Selection Signal Erratic Fvobus 2 Remote Accelerator Pedal Supply Voltage Out of Range Fvobus 4 Remote Accelerator Pedal Circuit	904	19	erratic
973 2 Evobus 5stage retarder lever position not plausible 973 9 J1939 EBC1 Message is missing 973 13 J1939 Engine Retarder Selection Signal Missing 973 19 J1939 Engine Retarder Selection Signal Erratic 974 2 Remote Accelerator Pedal Supply Voltage Out of Range 974 3 Remote Accelerator Pedal Circuit	972	2	Throttle inhibit switch signal not
973 9 J1939 EBC1 Message is missing 973 13 J1939 Engine Retarder Selection Signal Missing 973 19 J1939 Engine Retarder Selection Signal Erratic 974 2 Remote Accelerator Pedal Supply Voltage Out of Range 974 3 Remote Accelerator Pedal Circuit	973	2	plausible due to excess vehicle speed Evobus 5stage retarder lever position
973 13 J1939 Engine Retarder Selection Signal Missing 973 19 J1939 Engine Retarder Selection Signal Erratic 974 2 Remote Accelerator Pedal Supply Voltage Out of Range 974 3 Remote Accelerator Pedal Circuit			
Signal Missing 973 19 J1939 Engine Retarder Selection Signal Erratic 974 2 Remote Accelerator Pedal Supply Voltage Out of Range 974 3 Remote Accelerator Pedal Circuit		-	
973 19 J1939 Engine Retarder Selection Signal Erratic 974 2 Remote Accelerator Pedal Supply Voltage Out of Range 974 3 Remote Accelerator Pedal Circuit	973	13	
974 2 Remote Accelerator Pedal Supply Voltage Out of Range 974 3 Remote Accelerator Pedal Circuit	973	19	J1939 Engine Retarder Selection
Voltage Out of Range 974 3 Remote Accelerator Pedal Circuit	074	2	
974 3 Remote Accelerator Pedal Circuit	974	2	
ralleu nigh	974	3	0

SPN	FMI	CPC FAULT CODE DESCRIPTION EPA07
974	4	Remote Accelerator Pedal Circuit Failed Low
979	9	J1939 PTO Message Not Received
001	•	This Ignition Cycle
986	9	J1939 CM1 from FAN request SA1 (see 001/045) is missing
986	9	J1939 CM1 from FAN request SA2
		(see 001/047) is missing
1267	3	Digital Output 4 10 Circuit Failed Open
1267	4	Digital Output 4 10 Circuit Failed Low
1590	9	Adaptive Cruise Control Message Not Received
1590	19	Adaptive Cruise Control Device
		Reporting Error
1624	9	J1939 TCO1 Message is missing
1624	13	J1939 Tachograph Vehicle Speed Signal is missing
1624	19	J1939 Tachograph Vehicle Speed
1021		Signal is erratic
1663	7	Optimized Idle Safety Loop Faulted
1716	9	J1939 ERC1 Message is missing
1716	13	Evobus 5stage retarder lever
		calibration not plausible
1814	9	VDC1 Message was not received or
1845	9	has stopped arriving. J1939 TCFG2 Message is missing
2623	8	2-Channel Accelerator Pedal Signal 2
2023	0	Missing
2623	14	2-Channel Accelerator Pedal Signals 1
		And 2 Missing
2900	9	J1939 ETC7 Message is missing
3510	3	Accelerator Pedal Supply Voltage
2510	2	Circuit Failed High
3510	3	Special Function Pin 7 Supply Voltage Circuit Failed High
3510	4	Accelerator Pedal Supply Voltage
		Circuit Failed Low
3510	4	2-Channel Accelerator Pedal Supply
0.404	0	Voltage Missing
3606	9	J1939 ESS Message is missing
3695	9	DPF Regen Inhibit MUX Switch
3695	9	Message Stopped Arriving J1939 CM1 Message for DPF switches
3073	,	for SA (see param 001/046) is missing
3695	13	DPF Regen Inhibit MUX Switch
55.5	.,	Message Contains SNV Indicator

CDN		CPC FAULT CODE
SPN	FMI	DESCRIPTION EPA07
3695	14	DPF Regen Inhibit MUX Switch
		Message Not Received this Ign Cycle
3695	19	DPF Regen Inhibit MUX Switch
		Message Contains Data Error Indicator
3696	9	DPF Regen Force MUX Switch
		Message Stopped Arriving
3696	13	DPF Regen Force MUX Switch
		Message Contains SNV Indicator
3696	14	DPF Regen Force MUX Switch
		Message Not Received this Ign Cycle
3696	19	DPF Regen Force MUX Switch
		Message Contains Data Error Indicator
524287	9	Predictive Cruise Control Message Not
		Received
524287	19	Predictive Cruise Control Device
		Reporting Error

SPN	FMI	MCM FAULT CODE DESCRIPTION EPA07
51 51	2	Intake Throttle Position Deviation Error
51	3	Intake Air Throttle Circuit Failed High
51	4	Intake Air Throttle Circuit Failed Fight
94	3	
94	3	Fuel Compensation Pressure Sensor
0.4	4	Circuit Failed High
94	4	Fuel Compensation Pressure Sensor
0.4	15	Circuit Failed Low
94	15	Fuel Filter Service Warning
94 97	16 3	Fuel Filter Replacement Required
97	3 4	Water in Fuel Circuit Failed High
	4 15	Water in Fuel Circuit Failed Low
97		Water in Fuel Impaced Denote
97	16 1	Water in Fuel Ignored - Derate
100		Engine Oil Pressure Low
100	2	Oil Pressure Plausibility - Engine
100	2	Running
100	2	Oil Pressure Plausibility - Stop
100 100	3 4	Engine Oil Pressure Circuit Failed High
	0	Engine Oil Pressure Circuit Failed Low
103	U	Turbo Charger Speed Above Threshold
100	1	(Low Box)
103	1	Turbo Charger Speed Below Threshold
102	2	(High Box)
103 108	2	Turbocharger Speed Not Plausible Barometric Pressure Circuit Failed
100	3	
108	4	High Barometric Pressure Circuit Failed Low
108	20	
108	20	Ambient Pressure Plausibility Fault
110	0	(High Box)
110	2	Coolant Temperature High Coolant Outlet Temperature Not
110	2	Plausible
110	3	Engine Coolant Outlet Temperature
110	3	Circuit Failed High
110	4	Engine Coolant Outlet Temperature
110	4	Circuit Failed Low
110	14	Coolant Temperature / Engine Oil
110	14	Temperature Plausibility Fault
132	1	Air Mass Flow Too Low
157	1	Fuel Rail Pressure Too High
157	2	Fuel Rail Pressure Sensor Signal
137		Erratic
158	2	Ignition Switch Not Plausible
164	0	Quantity Control Valve High Side
104		Driver Error.
		DIIVOI LITUI.

SPN	FMI	MCM FAULT CODE DESCRIPTION EPA07
164	1	Quantity Control Valve Low Side Driver
		Error.
164	2	Rail Pressure Sensor Drift
164	3	Rail Pressure Sensor Circuit Failed
		High
164	4	Rail Pressure Sensor Circuit Failed
		Low
164	5	Rail Pressure Sensor Circuit Failed
		Open
164	7	High Pressure Pump, Leakage or TDC
1.10		Position Wrong
168	0	Battery Voltage High
168	1	Battery Voltage Low
171	3	Ambient Temperature Circuit Failed
171	4	High
171	4	Ambient Temperature Circuit Failed
174	0	Low
174	0	Fuel Temperature Too High
174	2	Fuel Temperature Sensor, General Temp. Plausibility
174	2	Fuel Temperature Circuit Failed High
174	3 4	Fuel Temperature Circuit Failed Low
1/4	4	
175	Λ	Oil Temperature High Warning
175 175	2	Oil Temperature High Warning Engine Oil Temperature Sensor.
175 175		Engine Oil Temperature Sensor,
		Engine Oil Temperature Sensor, General Temp. Plausibility
175	2	Engine Oil Temperature Sensor,
175	2	Engine Oil Temperature Sensor, General Temp. Plausibility Engine Oil Temperature Circuit Failed
175 175	2	Engine Oil Temperature Sensor, General Temp. Plausibility Engine Oil Temperature Circuit Failed High
175 175	2	Engine Oil Temperature Sensor, General Temp. Plausibility Engine Oil Temperature Circuit Failed High Engine Oil Temperature Circuit Failed Low Engine Oil Temperature Sensor
175 175 175 175	2 3 4 14	Engine Oil Temperature Sensor, General Temp. Plausibility Engine Oil Temperature Circuit Failed High Engine Oil Temperature Circuit Failed Low Engine Oil Temperature Sensor Plausibility Fault
175 175 175 175 175	2 3 4	Engine Oil Temperature Sensor, General Temp. Plausibility Engine Oil Temperature Circuit Failed High Engine Oil Temperature Circuit Failed Low Engine Oil Temperature Sensor Plausibility Fault Oil Temperature High Pre-Warning
175 175 175 175 175 176 190	2 3 4 14	Engine Oil Temperature Sensor, General Temp. Plausibility Engine Oil Temperature Circuit Failed High Engine Oil Temperature Circuit Failed Low Engine Oil Temperature Sensor Plausibility Fault Oil Temperature High Pre-Warning Engine Speed High
175 175 175 175 175	2 3 4 14	Engine Oil Temperature Sensor, General Temp. Plausibility Engine Oil Temperature Circuit Failed High Engine Oil Temperature Circuit Failed Low Engine Oil Temperature Sensor Plausibility Fault Oil Temperature High Pre-Warning Engine Speed High EGR differential pressure too high (low
175 175 175 175 175 175 190 411	2 3 4 14 15 0	Engine Oil Temperature Sensor, General Temp. Plausibility Engine Oil Temperature Circuit Failed High Engine Oil Temperature Circuit Failed Low Engine Oil Temperature Sensor Plausibility Fault Oil Temperature High Pre-Warning Engine Speed High EGR differential pressure too high (low box)
175 175 175 175 175 176 190	2 3 4 14	Engine Oil Temperature Sensor, General Temp. Plausibility Engine Oil Temperature Circuit Failed High Engine Oil Temperature Circuit Failed Low Engine Oil Temperature Sensor Plausibility Fault Oil Temperature High Pre-Warning Engine Speed High EGR differential pressure too high (low box) EGR differential pressure too low (high
175 175 175 175 175 190 411 411	2 3 4 14 15 0 0	Engine Oil Temperature Sensor, General Temp. Plausibility Engine Oil Temperature Circuit Failed High Engine Oil Temperature Circuit Failed Low Engine Oil Temperature Sensor Plausibility Fault Oil Temperature High Pre-Warning Engine Speed High EGR differential pressure too high (low box) EGR differential pressure too low (high box)
175 175 175 175 175 175 190 411	2 3 4 14 15 0	Engine Oil Temperature Sensor, General Temp. Plausibility Engine Oil Temperature Circuit Failed High Engine Oil Temperature Circuit Failed Low Engine Oil Temperature Sensor Plausibility Fault Oil Temperature High Pre-Warning Engine Speed High EGR differential pressure too high (low box) EGR differential pressure too low (high box) EGR Delta Pressure Sensor Circuit
175 175 175 175 175 190 411 411	2 3 4 14 15 0 0 1	Engine Oil Temperature Sensor, General Temp. Plausibility Engine Oil Temperature Circuit Failed High Engine Oil Temperature Circuit Failed Low Engine Oil Temperature Sensor Plausibility Fault Oil Temperature High Pre-Warning Engine Speed High EGR differential pressure too high (low box) EGR differential pressure too low (high box) EGR Delta Pressure Sensor Circuit High
175 175 175 175 175 190 411 411	2 3 4 14 15 0 0	Engine Oil Temperature Sensor, General Temp. Plausibility Engine Oil Temperature Circuit Failed High Engine Oil Temperature Circuit Failed Low Engine Oil Temperature Sensor Plausibility Fault Oil Temperature High Pre-Warning Engine Speed High EGR differential pressure too high (low box) EGR differential pressure too low (high box) EGR Delta Pressure Sensor Circuit High EGR Delta Pressure Sensor Circuit
175 175 175 175 175 190 411 411 411	2 3 4 14 15 0 0 1 3 4	Engine Oil Temperature Sensor, General Temp. Plausibility Engine Oil Temperature Circuit Failed High Engine Oil Temperature Circuit Failed Low Engine Oil Temperature Sensor Plausibility Fault Oil Temperature High Pre-Warning Engine Speed High EGR differential pressure too high (low box) EGR differential pressure too low (high box) EGR Delta Pressure Sensor Circuit High EGR Delta Pressure Sensor Circuit Low
175 175 175 175 175 190 411 411 411 411 411	2 3 4 14 15 0 0 1 3 4	Engine Oil Temperature Sensor, General Temp. Plausibility Engine Oil Temperature Circuit Failed High Engine Oil Temperature Circuit Failed Low Engine Oil Temperature Sensor Plausibility Fault Oil Temperature High Pre-Warning Engine Speed High EGR differential pressure too high (low box) EGR differential pressure too low (high box) EGR Delta Pressure Sensor Circuit High EGR Delta Pressure Sensor Circuit Low EGR Temperature Very High
175 175 175 175 175 190 411 411 411	2 3 4 14 15 0 0 1 3 4	Engine Oil Temperature Sensor, General Temp. Plausibility Engine Oil Temperature Circuit Failed High Engine Oil Temperature Circuit Failed Low Engine Oil Temperature Sensor Plausibility Fault Oil Temperature High Pre-Warning Engine Speed High EGR differential pressure too high (low box) EGR differential pressure too low (high box) EGR Delta Pressure Sensor Circuit High EGR Delta Pressure Sensor Circuit Low EGR Temperature Very High EGR Temperature Sensor, General
175 175 175 175 175 190 411 411 411 411 411	2 3 4 14 15 0 0 1 3 4	Engine Oil Temperature Sensor, General Temp. Plausibility Engine Oil Temperature Circuit Failed High Engine Oil Temperature Circuit Failed Low Engine Oil Temperature Sensor Plausibility Fault Oil Temperature High Pre-Warning Engine Speed High EGR differential pressure too high (low box) EGR differential pressure too low (high box) EGR Delta Pressure Sensor Circuit High EGR Delta Pressure Sensor Circuit Low EGR Temperature Very High

		MCM FAULT CODE
SPN	FMI	DESCRIPTION EPA07
412	4	EGR Temperature Sensor Circuit
440	4.1	Failed Low
412	16	EGR Temperature Sensor /
440	0.0	Temperature Too High
412	20	EGR Temperature Drift (High Box)
412	21	EGR Temperature Drift (Low Box)
615	3	APT Air Seal Pressure Regulator Valve
615	4	Circuit Failed High APT Air Seal Pressure Regulator Valve
013	4	Circuit Failed Low
615	5	APT Air Seal Pressure Regulator Valve
013	J	Circuit Failed Open
615	9	J1939 DM1 message from the
010	,	transmission is missing.
615	14	Rail Pressure Leakage
625	2	Invalid Data on Engine CAN Link
625	9	No Data Received from Engine CAN
		Link
628	14	CPC Software Error
630	14	Communication Interruption between
		the Common Powertrain Controller
		(CPC) and Motor Control Module
		(MCM).
636	1	Crankshaft Position Sensor Signal
(0)	0	Voltage Too Low
636	2	No Match of Camshaft and Crankshaft
/ 2 /	2	Signals
636	3	Crankshaft Position Sensor Open Circuit
636	8	Crankshaft Position Sensor Time Out
636	10	Crankshaft Position Sensor Signal
030	10	Frratic
636	14	Crankshaft Position Sensor Pins
		Swapped
636	31	Crankshaft Positon Sensor Error
		Detected
641	3	Turbo Control Circuit Failed High
641		Turbo Control Circuit Failed Low
641	4 5 3	Turbo Control Circuit Open
647	3	Fan Stage 1 Circuit Failed High
647	4 5	Fan Stage 1 Circuit Failed Low
647		Fan Stage 1 Circuit Failed Open
651	14	Injector Cylinder #1 Needle Control
(50	1.4	Valve Abnormal Operation
652	14	Injector Cylinder #2 Needle Control
		Valve Abnormal Operation

SPN	FMI	MCM FAULT CODE DESCRIPTION EPA07
653	14	Injector Cylinder #3 Needle Control
		Valve Abnormal Operation
654	14	Injector Cylinder #4 Needle Control
		Valve Abnormal Operation
655	14	Injector Cylinder #5 Needle Control
/F/	14	Valve Abnormal Operation
656	14	Injector Cylinder #6 Needle Control Valve Abnormal Operation
677	2	Starter Switch Inconsistent
677	3	Engine Starter Relay Shorted to High
011	Ü	Source
677	4	Engine Starter Relay Circuit Failed Low
677	5	Engine Starter Relay Open Circuit
677	7	Engine Starter Relay Jammed
677	14	Starter Electronic Fault / MCM Internal
		Failure
677	31	Starter Jammed (Tooth to Tooth Jam)
679	7	Pressure Limiting Valve (PLV) staying
400	_	open
698	5	Gridheater Circuit Failed Open
723	3	Camshaft Position Sensor Open Circuit
723	4	Camshaft Position Sensor Short to
723	8	Ground Camshaft Position Sensor Time Out
723	10	Camshaft Position Sensor Signal
723	10	Erratic
723	11	Camshaft Position Sensor Failure
723	14	Camshaft Position Sensor Pins
		Swapped
723	31	No match of camshaft and crankshaft
		signals.
729	0	Grid Heater Permanently On
729	4	Grid Heater Circuit Failed Low
729	7	Grid Heater Defect
1037 1037	0 15	DPF HC absorption very high DPF HC Absorption Warning
1037	16	DPF HC absorption high
1037	3	Fan Stage 2 Circuit Failed High
1071	4	Fan Stage 2 Circuit Failed Low
1071	5	Fan Stage 2 Circuit Failed Open
1072	3	Jake Brake Stage 1 Circuit Failed High
1072	4	Jake Brake Stage 1 Circuit Failed Low
1072	5	Jake Brake Stage 1 Circuit Failed
		Open
1073	3	Jake Brake Stage 2 Circuit Failed High
1073	4	Jake Brake Stage 2 Circuit Failed Low

SPN	FMI	MCM FAULT CODE DESCRIPTION EPA07
1073	5	Jake Brake Stage 2 Circuit Failed
		Open
1077	5	quantity control valve current too low.
1077	7	Fuel Rail Pressure Too High
1077	14	Rail Pressure Leakage in High
		Pressure System Too High
1077	15	internal or external leakage of the high
		pressure fuel system
1077	31	rail pressure deviation
1172	2	Coolant Temp/Compressor Inlet Temp
		Plausibility Error
1172	3	Turbocharger Compressor Inlet
		Temperature Circuit Failed High
1172	4	Turbocharger Compressor Inlet
		Temperature Circuit Failed Low
1323	31	Cylinder 1 Misfire detected
1324	31	Cylinder 2 Misfire detected
1325	31	Cylinder 3 Misfire detected
1326	31	Cylinder 4 Misfire detected
1327	31	Cylinder 5 Misfire detected
1328	31	Cylinder 6 Misfire Detected
1636	3	Intake Manifold Temperature Circuit
1000	J	Failed High
1636	4	Intake Manifold Temperature Circuit
1030	7	Failed Low
1636	20	Intake Manifold Temperature Drift (Low
1030	20	Box)
2630	2	air temperature plausibility fault out of
2030	۷	range (high box).
2630	3	intake air temperature circuit failed
2030	3	high.
2630	4	intake air temperature circuit failed low.
2630	20	Charge Air Outlet Temperature Drift
2030	20	(Low box)
2630	21	Charge Air Outlet Temperature Drift
2030	21	(High box)
2631	1	Low Air Flow
2631	3	
2031	3	intake manifold pressure sensor circuit
2421	4	failed high.
2631	4	intake manifold pressure sensor circuit
2450	1	failed low.
2659	1	EGR Flow Target Error Diagnostic -
2701	2	Low Flow
2791	3	EGR Valve Circuit Failed High
2791	4	EGR Valve Circuit Failed Low
2791	5	EGR Valve Circuit Failed Open

2791 7 EGR Valve Actuator, Failsafe Mode, Motor On 2791 8 EGR Valve Actuator, Failsafe Mode, Motor Off 2791 9 Exhaust Gas Recirculation (EGR) actuator slow response. 2791 11 Exhaust Gas Recirculation (EGR) actuator (restricted operability). 2791 14 EGR Valve Actuator, No Failsafe Mode, Motor Off 2791 15 EGR Valve Actuator, high load operation in high ambient temperatures 2791 16 EGR Valve Actuator, Temperature Fault 2791 31 Exhaust Gas Recirculation (EGR) valve actuator (unknown error code). 3058 13 EGR System Parametrization Failure 3064 13 DPF System Parametrization Failure 3064 13 DPF System Parametrization Failure 31064 13 DOC Inlet Temperature Sensor - Plausibility Error 31064 13 DOC Inlet Temperature Circuit Failed High 31064 13 DOC Inlet Temperature Circuit Failed High 31064 13 DOC Inlet Temperature Circuit Failed Low 3107 DOC Inlet Temperature Circuit Failed Low 3108 DPF Outlet Temperature Circuit Failed Low 3109 DPF Outlet Temperature Circuit Failed High 3109 DPF Outlet Temperature Circuit Failed Low 3109 DPF Outlet Temperature Sensor Spike DPF Outlet Temperature Circuit Failed High Sensor Spike DPF Outlet Temperature Circuit Failed High Sensor Spike DPF Outlet Temperature Circuit Failed Low Sensor Spike DPF Outlet Temperature Circuit Failed Low Sensor Spike DPF Outlet Temperature Sensor Spi	SPN	FMI	MCM FAULT CODE DESCRIPTION EPA07
2791 8 EGR Valve Actuator, Failsafe Mode, Motor Off 2791 9 Exhaust Gas Recirculation (EGR) actuator slow response. 2791 11 Exhaust Gas Recirculation (EGR) actuator (restricted operability). 2791 14 EGR Valve Actuator, No Failsafe Mode, Motor Off 2791 15 EGR Valve Actuator, high load operation in high ambient temperatures Fault 2791 16 EGR Valve Actuator, Temperature Fault 2791 31 Exhaust Gas Recirculation (EGR) valve actuator (unknown error code). 3058 13 EGR System Parametrization Failure 3064 13 DPF System Parametrization Failure 3242 2 DOC Inlet Temperature Sensor - Plausibility Error 3242 3 DOC Inlet Temperature Circuit Failed High 3242 4 DOC Inlet Temperature Circuit Failed Low 3242 10 DOC Inlet Temperature Very High 3246 0 DPF Outlet Temperature Very High 3246 2 DPF Outlet Sensor, General Temp. Plausibility 3246 3 DPF Outlet Temperature Circuit Failed High 3246 4 DPF Outlet Temperature Circuit Failed Low 3246 10 DPF Outlet Temperature Pign Stuck 3246 10 DPF Outlet Temperature Sensor Spike 3250 0 DOC Outlet Temperature High 3250 10 DOC Outlet Temperature Sensor Spike 3250 3 DOC Outlet Temperature Circuit Failed High 3250 4 DOC Outlet Temperature Sensor Spike 3250 8 DOC Outlet Temperature Sensor Spike	2791	7	
2791 9 Exhaust Gas Recirculation (EGR) actuator slow response. 2791 11 Exhaust Gas Recirculation (EGR) actuator (restricted operability). 2791 14 EGR Valve Actuator, No Failsafe Mode, Motor Off 2791 15 EGR Valve Actuator, high load operation in high ambient temperatures 2791 16 EGR Valve Actuator, Temperature Fault 2791 31 Exhaust Gas Recirculation (EGR) valve actuator (unknown error code). 3058 13 EGR System Parametrization Failure 3064 13 DPF System Parametrization Failure 3064 13 DPF System Parametrization Failure 3242 2 DOC Inlet Temperature Sensor - Plausibility Error 3242 3 DOC Inlet Temperature Circuit Failed High 3244 0 DOC Inlet Temperature Very High 3246 0 DPF Outlet Temperature Very High 3246 2 DPF Outlet Sensor, General Temp. Plausibility 3246 3 DPF Outlet Temperature Circuit Failed High 3246 4 DPF Outlet Temperature Circuit Failed Low 3246 10 DPF Outlet Temperature Circuit Failed Low 3246 4 DPF Outlet Temperature Failed Low 3246 10 DPF Outlet Temperature Sensor Spike 3246 10 DPF Outlet Temperature Failed Low 3246 10 DPF Outlet Temperature Sensor Spike 3246 10 DPF Outlet Temperature Sensor Spike 3246 10 DPF Outlet Temperature Failed Low 3250 2 DOC Outlet Temperature High 3250 4 DOC Outlet Temperature Sensor - Plausibility Error 3250 3 DOC Outlet Temperature Circuit Failed High 3250 4 DOC Outlet Temperature Circuit Failed High 3250 8 DOC Outlet Temperature Sensor Spike 3250 8 DOC Outlet Temperature Sensor Spike 3250 10 DOC Outlet Temperature Sensor Spike	2791	8	EGR Valve Actuator, Failsafe Mode,
2791 11 Exhaust Gas Recirculation (EGR) actuator (restricted operability). 2791 14 EGR Valve Actuator, No Failsafe Mode, Motor Off 2791 15 EGR Valve Actuator, high load operation in high ambient temperatures 2791 16 EGR Valve Actuator, Temperature Fault 2791 31 Exhaust Gas Recirculation (EGR) valve actuator (unknown error code). 3058 13 EGR System Parametrization Failure 3064 13 DPF System Parametrization Failure 3064 13 DPF System Parametrization Failure 3242 2 DOC Inlet Temperature Sensor - Plausibility Error 3242 3 DOC Inlet Temperature Circuit Failed High 3244 DOC Inlet Temperature Very High 3246 0 DPF Outlet Temperature Very High 3246 2 DPF Outlet Sensor, General Temp. Plausibility 3246 3 DPF Outlet Temperature Circuit Failed High 3246 4 DPF Outlet Temperature Circuit Failed Low 3246 10 DPF Outlet Temperature Sensor Spike 3246 10 DPFOutlet Temperature Failed Low 3246 10 DPFOutlet Temperature Sensor Spike 3246 10 DPFOutlet Temperature Sensor Spike 3246 10 DPFOutlet Temperature Sensor Spike 3246 10 DPFOutlet Temperature Figh 3250 2 DOC Outlet Temperature High 3250 3 DOC Outlet Temperature Sensor - Plausibility Error 3250 3 DOC Outlet Temperature Circuit Failed High 3250 4 DOC Outlet Temperature Circuit Failed Low 3250 8 DOC Outlet Temperature Sensor Spike 3250 8 DOC Outlet Temperature Sensor Spike 3250 8 DOC Outlet Temperature Sensor Spike	2791	9	Exhaust Gas Recirculation (EGR)
2791 14 EGR Valve Actuator, No Failsafe Mode, Motor Off 2791 15 EGR Valve Actuator, high load operation in high ambient temperatures 2791 16 EGR Valve Actuator, Temperature Fault 2791 31 Exhaust Gas Recirculation (EGR) valve actuator (unknown error code). 3058 13 EGR System Parametrization Failure 3064 13 DPF System Parametrization Failure 3064 13 DPF System Parametrization Failure 3242 2 DOC Inlet Temperature Sensor - Plausibility Error 3242 3 DOC Inlet Temperature Circuit Failed High 3244 4 DOC Inlet Temperature Very High 3246 0 DPF Outlet Temperature Very High 3246 2 DPF Outlet Temperature Very High 3246 3 DPF Outlet Temperature Circuit Failed High 3246 4 DPF Outlet Temperature Circuit Failed Low 3246 8 DPF Outlet Temperature Circuit Failed Low 3246 10 DPFOutlet Temperature Sensor Spike 3246 10 DPFOutlet Temperature Failed Low 3246 10 DPFOutlet Temperature Sensor Spike 3246 10 DPFOutlet Temperature Sensor Spike 3246 10 DPFOutlet Temperature High 3250 2 DOC Outlet Temperature High 3250 3 DOC Outlet Temperature Sensor - Plausibility Error 3250 3 DOC Outlet Temperature Circuit Failed High 3250 4 DOC Outlet Temperature Circuit Failed Low 3250 8 DOC Outlet Temperature Sensor Spike 3250 8 DOC Outlet Temperature Sensor Spike 3250 8 DOC Outlet Temperature Sensor Spike	2791	11	Exhaust Gas Recirculation (EGR)
operation in high ambient temperatures EGR Valve Actuator, Temperature Fault 2791 31 Exhaust Gas Recirculation (EGR) valve actuator (unknown error code). 3058 13 EGR System Parametrization Failure 3064 13 DPF System Parametrization Failure 3042 2 DOC Inlet Temperature Sensor - Plausibility Error 3242 3 DOC Inlet Temperature Circuit Failed High 3242 4 DOC Inlet Temperature Circuit Failed Low 3242 10 DOC Inlet Temperature Sensor Stuck 3246 0 DPF Outlet Temperature Very High 3246 2 DPF Outlet Temperature Very High 3246 3 DPF Outlet Temperature Circuit Failed High 3246 4 DPF Outlet Temperature Circuit Failed High 3246 8 DPF Outlet Temperature Circuit Failed Low 3246 10 DPFOutlet Temperature Sensor Spike 3246 10 DPFOutlet Temperature Fispal Stuck 3246 14 Abnormal DPF Temperature Rise 3246 16 DPF Outlet Temperature High 3250 0 DOC Outlet Temperature High 3250 1 DOC Outlet Temperature Circuit Failed High 3250 2 DOC Outlet Temperature Circuit Failed High 3250 3 DOC Outlet Temperature Circuit Failed High 3250 4 DOC Outlet Temperature Circuit Failed Low 3250 8 DOC Outlet Temperature Sensor Spike 3250 8 DOC Outlet Temperature Sensor Spike 3250 8 DOC Outlet Temperature Sensor Spike	2791	14	EGR Valve Actuator, No Failsafe
Fault 2791 31 Exhaust Gas Recirculation (EGR) valve actuator (unknown error code). 3058 13 EGR System Parametrization Failure 3064 13 DPF System Parametrization Failure 3242 2 DOC Inlet Temperature Sensor - Plausibility Error 3242 3 DOC Inlet Temperature Circuit Failed High 3242 4 DOC Inlet Temperature Circuit Failed Low 3242 10 DOC Inlet Temperature Sensor Stuck 3246 0 DPF Outlet Temperature Very High 3246 2 DPF Outlet Sensor, General Temp. Plausibility 3246 3 DPF Oulet Temperature Circuit Failed High 3246 4 DPF Oulet Temperature Circuit Failed Low 3246 8 DPF Outlet Temperature Sensor Spike 3246 10 DPFOutlet Temperature Sensor Spike 3246 14 Abnormal DPF Temperature Rise 3246 16 DPF Outlet Temperature High 3250 0 DOC Outlet Temperature High 3250 2 DOC Outlet Temperature Sensor - Plausibility Error 3250 3 DOC Outlet Temperature Circuit Failed High 3250 4 DOC Outlet Temperature Circuit Failed Low 3250 8 DOC Outlet Temperature Sensor Spike 3250 10 DOC Outlet Temperature Sensor Spike	2791	15	
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3250 8 DOC Outlet Temperature Sensor Spike 3250 10 DOC Outlet Temperature - Signal	3250	3	DOC Outlet Temperature Circuit Failed
3250 10 DOC Outlet Temperature - Signal	3250	4	DOC Outlet Temperature Circuit Failed
3250 10 DOC Outlet Temperature - Signal	3250	8	DOC Outlet Temperature Sensor Spike
		10	DOC Outlet Temperature - Signal

SPN	FMI	MCM FAULT CODE DESCRIPTION EPA07
3250	14	Abnormal DOC Temperature Rise
3250	16	DOC Outlet Temperature Too High
3250	31	Abnormal DOC Temperature Rise
3251	0	DPF Pressure - Out of Range Very
3231	U	High
3251	1	DPF Pressure - Out of Range Low
3251	16	DPF Pressure - Out of Range High
3464	14	Intake Air Throttle Control Electrical
3404	14	Fault
3471	1	EDV Failed Self Test
3471	3	HC Doser Circuit Failed High
3471	4	HC Doser Circuit Failed Low
3471	5	HC Doser Circuit Failed Open
3480	1	Hydrocarbon (HC) doser fuel supply
0 100	•	pressure abnormal.
3480	2	Hydrocarbon (HC) doser fuel line
0.00	_	pressure low.
3480	3	Fuel Compensation Pressure (FCP)
		sensor circuit failed high.
3480	4	Fuel Compensation Pressure (FCP)
		sensor circuit failed low.
3480	14	Doser FLP Sensors Failed Self Test
3480	16	Hydrocarbon (HC) doser Fuel Line
0.00	.0	Pressure (FLP) sensor - Failed self- test.
3480	31	Fuel Cut Off Valve Pressure Not
3400	31	Plausible
3482	3	Fuel Cut Off Valve Circuit Failed High
3482	3 4	Fuel Cut Off Valve Circuit Failed High
	5	
3482	5 7	Fuel Cut Off Valve Circuit Failed Open FCV Failed Self Test
3482	3	5V Sensor Supply Bank 1 Circuit Failed
3509	3	High
3509	4	5V Sensor Supply Bank 1 Circuit Failed
3307	4	Low
3510	3	5V Sensor Supply Bank 2 Circuit Failed
0010	J	High
3510	4	5V Sensor Supply Bank 2 Circuit Failed
0010		Low
3511	3	3V Sensor Supply Bank 1 Circuit Failed
		High
3511	4	3V Sensor Supply Bank 1 Circuit Failed
		Low
3512	3	3V Sensor Supply Bank 2 Circuit Failed
		High
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SPN	FMI	MCM FAULT CODE DESCRIPTION EPA07
3512	4	3V Sensor Supply Bank 2 Circuit Failed Low
3556	0	Regen Temperature - Out of Range High
3556	1	Regen Temperature - Out of Range Low
3563	3	Intake Manifold Pressure Circuit Failed High
3563	4	Intake Manifold Pressure Circuit Failed Low
3563	20	Ambient and Inlet Manifold Pressure Difference (Low Box)
3563	21	Ambient and Inlet Manifold Pressure Difference (High Box)
3597	4	Proportional Valve Bank 1 Circuit Failed Low
3598	3	Proportional Valve Bank 2 Circuit Failed High
3598	4	Proportional Valve Bank 2 Circuit Failed Low
3609	2	DPF Inlet Pressure Sensor Drifted High In Range Fault (High Box)
3609 3609	3 4	DPF Inlet Pressure Circuit Failed High DPF Inlet Pressure Circuit Failed Low
3609	8	DPF Inlet Pressure Sensor Drifted
3609	10	DPF Inlet Pressure Sensor Stuck
3609	20	DPF Inlet Pressure Sensor Drifted High In Range Fault (Low Box)
3609	21	DPF Inlet Pressure Sensor Drifted Low In Range Fault (Low Box)
3610	2	DPF Pressure Sensors - Plausibility Error
3610	3	DPF Outlet Pressure Circuit Failed High
3610	4	DPF Outlet Pressure Circuit Failed Low
3610	10	DPF Outlet Pressure Sensor Stuck
3610	14	DPF Outlet Pressure Sensor Drifted High In Range Fault (High Box)
3610	20	DPF Outlet Pressure Sensor Drifted High In Range Fault (Low Box)
3659	14	Injector Cylinder #1 Spill Control Valve Abnormal Operation
3660	14	Injector Cylinder #2 Spill Control Valve Abnormal Operation
3661	14	Injector Cylinder #3 Spill Control Valve Abnormal Operation

SPN	FMI	MCM FAULT CODE DESCRIPTION EPA07
3662	14	Injector Cylinder #4 Spill Control Valve Abnormal Operation
3663	14	Injector Cylinder #5 Spill Control Valve Abnormal Operation
3664	14	Injector Cylinder #6 Spill Control Valve Abnormal Operation
3711	31	HIR Regen (aborted) – Low Exhaust Temp
3716	31	HIR Regen (aborted) – Low Coolant Temp
3719	0	Soot Level Very High
3719	15	DPF Zone 3 Condition
3719	16	Soot Level High
3719	31	DPF Zone 2 Condition
3720	15	DPF Ash Clean Request
3720	16	DPF Ash Clean Request - Derate
4076	3	Engine Coolant Inlet Temperature Circuit Failed High
4076	4	Engine Coolant Inlet Temperature Circuit Failed Low
4077	0	Doser Fuel Line Pressure High
4077	1	Doser Fuel Line Pressure Abnormal
4077	3	Doser Fuel Line Pressure Sensor Circuit Failed High
4077	4	Doser Fuel Line Pressure Sensor Circuit Failed Low
4077	14	Doser Fuel Line Pressure Failed Self Test
4259	3	Injector Spill Control Valve Cylinder 4,5,6, Shorted to Battery
4259	4	Injector Spill Control Valve Cylinder 4, 5, 6 Shorted to Ground



Amber Warning Lamp (AWL) - Indicates a fault with the engine controls. Vehicle can be driven to end of shift. Call for service.



Red Stop Lamp (RSL) - Indicates a major engine fault that may result in engine damage. Move the vehicle to the nearest safe location and shutdown the engine. Call for service



DPF Regeneration Lamp - Lamp Solid indicates that a parked regeneration is required. Lamp Flashing indicates that a parked regeneration required immediately.



High Exhaust System Temperature Lamp (HEST) - Indicates exhaust temperature is above a preset limit and the unit is operating at low vehicle speed. Vehicle can be driven. When rpm is elevated for a parked regen, the lamp will flash once every ten seconds.



Malfunction Indicator Lamp (MIL) - Indicates a failure of an Emission Control device. Vehicle can be driven to end of the shift. Call for service

Unable to initiate Parked Regen via Regen Request Switch

To perform a Parked Regen, the following conditions must be met. Connect DDDL 7.0 to monitor these inputs:

- VSS must be 0 mph
- Clutch switch must be cycled ON/OFF/ON (manual trans)
- Parking Brake must be cycled ON/OFF/ON
- J1939 Gear Selected must be neutral be cycled ON/OFF/ON
- J1939 Gear Actual must be neutral be cycled ON/OFF/ON
- Must be on idle governor, not PTO Mode
- DPF Zone must not be 0

Regen Request Switch must be held for 5 seconds