

# Diagnostic Fault Codes

# Symptoms

Lamps =

A  
M  
B  
E  
R  
E  
D

EST CID	Failure Mode Identifier	SPN	Lamp Flash Code	C O D E	Event	Symptoms								Flash	R E D	
						1	2	3	4	5	6	7	8			
15	16	110			Event	High Coolant Temp:: DERATE			Y			Y			Flash	
16	0	110			Event	High Coolant Temp:: Shut Down			P			Y			On	Flash
17	15	110			Event	High Coolant Temp:: WARNING									Flash	
25	16	105			Event	High Inlet Air Temperature: DERATED	P	P	Y		Y				Flash	
27	15	105			Event	High Inlet Air Temperature: WARNING	P	P							Flash	
39	18	100			Event	Low Oil Pressure :: DERATE			P			P	P		Flash	
40	1	100			Event	Low Oil Pressure ::Shut Down			P	Y		P	Y		On	Flash
41	3	41	517		Diag	8 Volt DC Supply: Voltage Above Normal or Shorted High						P			ON	
41	4	41	517		Diag	8 Volt DC Supply: Voltage Below Normal or Shorted Low						P			ON	
41	3	678	517		Diag	8 Volt DC Supply: Voltage Above Normal Or Shorted High						P			ON	
41	4	678	517		Diag	8 Volt DC Supply: Voltage Below Normal Or Shorted Low						P			ON	
54	16	174			Event	High Fuel Temp:: DERATE			Y						Flash	
56	15	174			Event	High Fuel Temp:: WARNING			P						Flash	
91	2	91	154		Diag	Throttle Position Sensor: Data Erratic, Intermittent, Or Incorrect					Y			P	ON	
91	3	91	154		Diag	Throttle Position Sensor: Voltage Above Normal or Shorted High					Y			P	ON	
91	4	91	154		Diag	Throttle Position Sensor: Voltage Below Normal Or Shorted Low					Y			P	ON	
91	8	91	154		Diag	Throttle Position Sensor: AbnormFrequency, Pulse Width,Or Period					Y			P	ON	
0091	12	91	154		Diag	Throttle Position Sensor: Bad Device Or Component					Y			P	ON	
0091	2	558	154		Diag	#1 Throttle Position Sensor: Idle Validation Switch					Y		P	P	ON	
0100	3	100	157		Diag	Engine Oil Pressure Sensor: Voltage Above Normal or Shorted High									ON	
0100	4	100	157		Diag	Engine Oil Pressure Sensor: Voltage Below Normal Or Shorted Low									ON	
0100	10	100	157		Diag	No 5V To Sensor									ON	
0100	17	100			Event	Low Oil Pressure :: WARNING			P			P	P		ON	
0102	3	102	135		Diag	Boost Pressure Sensor: Voltage Above Noremal Or Shorted High	Y	Y							ON	
0102	4	102	135		Diag	Boost Pressure Sensor:Voltage Below Normal or Shorted Low	Y	Y							ON	
0102	10	102	135		Diag	No 5V to Sensor (Sensor Failed In Range)	Y	Y	Y		Y				ON	
0105	3	105	133		Diag	Inlet Manifold Temperature Sensor:: Temp Above Norm/ Shorted High	Y	Y		P		P			ON	
0105	4	105	133		Diag	Inlet Manifold Temp Sensor:: Voltage Below Normal or Shorted Low	Y	Y		P		P			ON	
0110	3	110	168		Diag	Engine Coolant Temp Sensor: Voltage Above Norm/ Shorted High				P					ON	
0110	4	110	168		Diag	Engine Coolant Temp Sensor: Voltage Below Norm/Shorted Low				P					ON	
0174	2	174	165		Diag	Fuel Temp Sensor: Data Erratic, Intermittent, Or Incorrect					P				ON	
0190	15	190			Event	Engine Speed : Overspeed- WARNING			P			P			Flash	
247	9	639	514		Diag	SAE J1939 Data Link: Abnormal Update									ON	
0253	2	234	416		Diag	Personality Module: Data Erratic, Intermittent, Or Incorrect				Y					ON	
0262	3	620	516		Diag	5v Sensor DC Supply: Voltage Above Normal Or Shorted High	P	P			P				ON	
0262	4	620	516		Diag	5v Sensor DC Supply: Voltage Below Normal Or Shorted Low	P	P			P				ON	
0320	2	637	141		Diag	Speed / Timing Sensor:: Data Erratic, Intermittent, Or Incorrect				P	Y		P		ON	
0320	11	637	141		Diag	Speed / Timing Sensor::Failure Mode Not Identifiable				P	Y		P		ON	
0320	9	639	514		Diag	SAE J1939 Data Link :: Abnormal Update					Y		P		ON	
0342	2	723	142		Diag	Secondary Engine Speed Sensor::Erratic, Intermittent, Or Incorrect				Y					ON	
774	2	558	155		Diag	#2 Throttle Position Sensor: Idle Validation Switch									ON	
774	3	91	155		Diag	#2 Throttle Pos Sens:Sig Volt Above Norm or Short to a Higher Voltage									ON	
774	4	91	155		Diag	#2 Throttle Pos Sensor: Volt Below Norm or Short to a lower Voltage									ON	
774	8	91	155		Diag	#2 Throttle Position Sensor: Abnorm Freq, Pulse width, or Period(PWM)									ON	
774	12	91	155		Diag	#2 Throttle Pos Sensor:5Volt Below Norm or Short to a Lower Voltage									ON	
876	0	168			Event	ECM High System Voltage - SHUTDOWN				Y			Y		OFF	OFF
1627	3	1077	187		Diag	Fuel Inj Pmp:Fuel Pump Relay:Voltage Above Norml or Shorted High				Y			Y		ON	
1627	5	1077	187		Diag	Fuel Inj Pmp: Open/Short to Battery +				Y			Y		ON	
1627	6	1077	187		Diag	Fuel Inj Pmp: Fuel Pump Relay-Short to Ground				Y			Y		ON	
1639	9	1196	426		Diag	Machine Security System									ON	
1684	0	1077	158		Diag	Fuel Injection Pump: Data Valid But Above Normal Operating range									ON	
1684	2	1077	158		Diag	Fuel Injection Pump: Data Erratic, Intermittent, Or Incorrect									ON	
1684	3	1077	158		Diag	Fuel Injection Pump: Voltage Above Norm or Shorted to High source									ON	
1684	4	1077	158		Diag	Fuel Injection Pump: Voltage Below Normal Or Shorted Low									ON	
1684	5	1077	158		Diag	Fuel Inj Pump: Data Valiad but below operating Range									ON	
1684	7	1077	158		Diag	Fuel Injection Pump: Mechanical System Not Responding Properly									ON	
1684	8	1077	158		Diag	Fuel Injection Pump: Abnormal Frequency, Pulse Width, Or Period									ON	
1684	9	1077	158		Diag	Fuel Injection Pump: Abnormal Update									ON	
1684	10	1077	158 / 187		Diag	Fuel Injection Pump:									ON	
1684	11	1077	158		Diag	Fuel Injection Pump: Failure Mode Not Identifiable									ON	
1684	12	1077	158		Diag	Fuel Injection Pump: Bad Device Or Component									ON	
1684	14	1077	158		Diag	Fuel Inj Pump:Comms Fault Between Dedicated Can ECM to Pump									ON	
1743	2	2882	144		Diag	Mode Selector Switch: Data Erratic, Intermittent, Or Incorrect			Y		Y				ON	
1894	2	2897	427		Diag	Cruise Control Disengage Switch::Erratic, Intermittent Or Incorect					Y				ON	
1895	2	597	428		Diag	Cruise Control Speed Toggle Switch::Erratic, Intermittent Or Incorect					Y				ON	
			551		Diag	No Active Codes										
N/A	31	524287	N/A	Special	Spurious Code - Please Ignore (Hand Held Reader)											

To view active flash codes, (Via warning Lamps ) turn key switch on & off twice within 3 seconds. The flash sequence for each digit of an active flash code will be seperated by a delay. If multiple codes exist, they will be seperated by a long 3 second delay.

