

CATERPILLAR ACERT ENGINE DIAGNOSTIC CODES

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2 TROUBLESHOOTING CODES.

This group provides information on the engine fault codes that could potentially appear on the LCD display at the center of your electronic dash when using the Engine Diagnostics Menu feature. Refer to Chapter 59-104 in your service or operator manual for instructions on reading and clearing fault codes. These codes can be used to help isolate the problem area in your engine. Refer to the appropriate Caterpillar Troubleshooting Manual or contact your Caterpillar dealer for additional information on isolating and repairing potential or existing problems.

<i>J1939 SPN</i>	<i>J1939 FMI</i>	<i>DIAGNOSTIC CODE DESCRIPTION</i>	<i>FLASH CODE</i>
651	1-05	CYLINDER #1 INJECTOR CURRENT LOW	72
651	1-06	CYLINDER #1 INJECTOR CURRENT HIGH	72
652	2-05	CYLINDER #2 INJECTOR CURRENT LOW	72
652	2-05	CYLINDER #2 INJECTOR CURRENT HIGH	72
653	3-05	CYLINDER #3 INJECTOR CURRENT LOW	73
653	3-06	CYLINDER #3 INJECTOR CURRENT HIGH	73
654	4-05	CYLINDER #4 INJECTOR CURRENT LOW	73
654	4-06	CYLINDER #4 INJECTOR CURRENT HIGH	73
655	5-05	CYLINDER #5 INJECTOR CURRENT LOW	74
655	5-06	CYLINDER #5 INJECTOR CURRENT HIGH	74
656	6-05	CYLINDER #6 INJECTOR CURRENT LOW	74
656	6-06	CYLINDER #6 INJECTOR CURRENT HIGH	74
637	22-11	PRIMARY TO SECONDARY ENGINE SPEED SIGNAL CALIBRATION	42
637	22-13	ENGINE SPEED SIGNAL CALIBRATION NOT PERFORMED	42
644	30-08	PTO THROTTLE SIGNAL INVALID	29
644	30-13	PTO THROTTLE SIGNAL CALIBRATION	29
678	41-03	8 VOLT SUPPLY ABOVE NORMAL	21
678	41-04	8 VOLT SUPPLY BELOW NORMAL	21
158	43-02	IGNITION KEY SWITCH FAULT	71
XX	52-11	INLET AIR SHUTOFF SHUTDOWN	00
706	54-05	AUXILIARY OUTPUT #06 CURRENT LOW	66

J1939 SPN	J1939 FMI	DIAGNOSTIC CODE DESCRIPTION	FLASH CODE
706	54-06	AUXILIARY OUTPUT #06 CURRENT HIGH	66
707	55-05	AUXILIARY OUTPUT #07 CURRENT LOW	67
707	55-06	AUXILIARY OUTPUT #07 CURRENT HIGH	67
723	64-02	LOSS OF SECONDARY ENGINE SPEED SIGNAL	34
592	71-00	IDLE SHUTDOWN OVERRIDE	01
592	71-01	IDLE SHUTDOWN OCCURRENCE	47
592	71-14	PTO SHUTDOWN OCCURRENCE	47
84	84-00	WHEEL-BASED VEHICLE OVERSPEED WARNING	41
84	84-01	LOSS OF WHEEL-BASED VEHICLE SPEED SIGNAL	31
84	84-02	INVALID WHEEL-BASED VEHICLE SPEED SIGNAL	36
84	84-08	WHEEL BASED VEHICLE SPEED OUT OF RANGE	36
84	84-10	WHEEL BASED VEHICLE SPEED RATE OF CHANGE	36
84	84-14	QUICKSTOP OCCURRENCE	00
91	91-08	ACCELERATOR PEDAL POSITION INVALID	32
91	91-13	ACCELERATOR PEDAL POSITION OUT OF CALIBRATION	28
100-01	100-01	LOW OIL PRESSURE WARNING	46
100-03	100-03	OIL PRESSURE SENSOR VOLTAGE HIGH	24
100-04	100-04	OIL PRESSURE SENSOR VOLTAGE LOW	24
100-11	100-11	VERY LOW OIL PRESSURE	46
102-03	102-03	BOOST PRESSURE SENSOR VOLTAGE HIGH	25
102-04	102-04	BOOST PRESSURE SENSOR VOLTAGE LOW	25
102-07	102-07	BOOST PRESSURE NOT RESPONDING	25
105-00	105-00	HIGH INTAKE MANIFOLD AIR TEMPERATURE WARNING	64
105-03	105-03	INTAKE MANIFOLD AIR TEMPERATURE SENSOR VOLTAGE HIGH	38
105-04	105-04	INTAKE MANIFOLD AIR TEMPERATURE SENSOR VOLTAGE LOW	38

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105-11	105-11	VERY HIGH INTAKE MANIFOLD AIR TEMPERATURE WARNING	64
108-03	108-03	BAROMETRIC PRESSURE VOLTAGE HIGH	26
108-04	108-04	BAROMETRIC PRESSURE VOLTAGE LOW	26
108-10	108-10	BAROMETRIC PRESSURE SIGNAL RATE OF CHANGE	26
110-00	110-00	HIGH COOLANT TEMPERATURE WARNING	61
110-03	110-03	COOLANT TEMPERATURE SENSOR VOLTAGE HIGH	27
110-04	110-04	COOLANT TEMPERATURE SENSOR VOLTAGE LOW	27
110-11	110-11	VERY HIGH COOLANT TEMPERATURE	61
111-01	111-01	LOW COOLANT LEVEL WARNING	62
111-02	111-02	INVALID COOLANT LEVEL	12
111-03	111-03	COOLANT LEVEL SENSOR VOLTAGE HIGH	12
111-04	111-04	COOLANT LEVEL SENSOR VOLTAGE LOW	12
111-11	111-11	VERY LOW COOLANT LEVEL	62
111-14	111-14	LOW COOLANT LEVEL WARNING (LESS THAN 6 ENGINE HOURS)	62
1072-05	121-05	RETARDER SOLENOID LOW/HIGH VOLTAGE LOW	14
1072-06	121-06	RETARDER SOLENOID LOW/HIGH VOLTAGE HIGH	14
1073-05	122-05	RETARDER SOLENOID MED/HIGH VOLTAGE LOW	14
1073-06	122-06	RETARDER SOLENOID MED/HIGH VOLTAGE HIGH	14
XX	166-04	RATED ENGINE POWER SPECIAL INSTRUCTIONS	00
168-02	168-02	INTERMITTENT BATTERY POWER TO THE ECM	51
171-03	171-03	OUTSIDE AIR TEMP SENSOR VOLTAGE HIGH	00
171-04	171-04	OUTSIDE AIR TEMP SENSOR VOLTAGE LOW	00
171	171-11	NO OUTSIDE AIR TEMP DATA	00
174	174-00	HIGH FUEL TEMP WARNING	65

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174-03	174-03	FUEL TEMP VOLTAGE HIGH	13
174-04	174-04	FUEL TEMP VOLTAGE LOW	13
190	190-00	ENGINE OVERSPEED WARNING	35
190	190-08	PRIMARY ENGINE SPEED LOSS OF SIGNAL	34
XX	191-07	TRANSMISSION NOT RESPONDING	68
XX	224-11	THEFT DETERRENT ENABLED	00
639	231-02	J1939 DEVICE SENDING INCORRECT DATA	00
639	231-12	J1939 DEVICE NOT RESPONDING	00
620	232-03	5 VOLT SUPPLY ABOVE NORMAL	21
620	232-04	5 VOLT SUPPLY ABOVE NORMAL	21
597	246-11	BRAKE PEDAL SWITCH #1 FAULT	00
603	247-11	BRAKE PEDAL SWITCH #2 FAULT	00
631	252-11	ENGINE SOFTWARE INCORRECT	59
630	253-02	CHECK CUSTOMER OR SYSTEM PARAMETERS	56
XX	253-11	CHECK TRANSMISSION CUSTOMER PARAMETERS	56
2949-05	283-05	INTAKE VALVE ACTUATION SYSTEM OIL PRESSURE SOLENOID CURRENT LOW	97
2949-06	283-06	INTAKE VALVE ACTUATION SYSTEM OIL PRESSURE SOLENOID CURRENT HIGH	97
2949-07	283-07	INTAKE VALVE ACTUATION SYSTEM OIL PRESSURE NOT RESPONDING	97
2988-05	284-05	ENGINE COOLANT DIVERter SOLENOID CURRENT LOW	98
2988-06	284-06	ENGINE COOLANT DIVERter SOLENOID CURRENT HIGH	98
2950-05	285-05	INTAKE VALVE ACTUATOR #1 CURRENT LOW	92
2950-06	285-06	INTAKE VALVE ACTUATOR #1 CURRENT HIGH	92
2950-07	285-07	INTAKE VALVE ACTUATOR #1 NOT RESPONDING	92
2951-05	286-05	INTAKE VALVE ACTUATOR #2 CURRENT LOW	92

2951-06	286-06	INTAKE VALVE ACTUATOR #2 CURRENT HIGH	92
2951-07	286-07	INTAKE VALVE ACTUATOR #2 NOT RESPONDING	92
2952-05	287-05	INTAKE VALVE ACTUATOR #3 CURRENT LOW	93
2952-06	287-06	INTAKE VALVE ACTUATOR #3 CURRENT HIGH	93
2952-07	287-07	INTAKE VALVE ACTUATOR #3 CURRENT NOT RESPONDING	93
2953-05	288-05	INTAKE VALVE ACTUATOR #4 CURRENT LOW	93
2953-06	288-06	INTAKE VALVE ACTUATOR #4 CURRENT HIGH	93
2953-07	288-07	INTAKE VALVE ACTUATOR #4 CURRENT NOT RESPONDING	93
2954-05	289-05	INTAKE VALVE ACTUATOR #5 CURRENT LOW	94
2954-06	289-06	INTAKE VALVE ACTUATOR #5 CURRENT HIGH	94
2954-07	289-07	INTAKE VALVE ACTUATOR #5 CURRENT NOT RESPONDING	94
2955-05	290-05	INTAKE VALVE ACTUATOR #6 CURRENT LOW	95
2955-06	290-06	INTAKE VALVE ACTUATOR #6 CURRENT HIGH	95
2955-07	290-07	INTAKE VALVE ACTUATOR #6 CURRENT NOT RESPONDING	95
2948-01	385-01	LOW INTAKE VALVE ACTUATION SYSTEM OIL PRESSURE	95
2948-03	385-03	INTAKE VALVE ACTUATION OIL PRESSURE VOLTAGE HIGH	95
2948-04	385-04	INTAKE VALVE ACTUATION OIL PRESSURE VOLTAGE LOW	95

