

Diagnostic Flash Codes For CAT C13 Engines

Note: Always refer to operators and maintenance manual for the latest information related to engine diagnostics and troubleshooting. Contact your local Cat dealer for more information.

Cross Reference for Diagnostic Codes			
Flash Code	SPN ⁽¹⁾ /FMI Code	Diagnostic Code or Event Code	Description of Code
N/A	1387-15	E443 ⁽²⁾	High Auxiliary Pressure Warning
	1387-16		High Auxiliary Pressure Derate
	1387-00		High Auxiliary Pressure Shutdown
	0441-15	E445 ⁽²⁾	High Auxiliary Temperature Warning
	0441-16		High Auxiliary Temperature Derate
	0441-00		High Auxiliary Temperature Shutdown
	626-05	545-05	Ether Start Relay open/short to +batt
		2417-05	Ether Injection Control Solenoid open/short to +batt
	626-06	545-06	Ether Start Relay short to ground
		2417-06	Ether Injection Control Solenoid short to ground
	1835-03	1835-03	Auxiliary Pressure Sensor open/short to +batt
	1835-04	1835-04	Auxiliary Pressure Sensor short to ground
	1836-03	1836-03	Auxiliary Temperature Sensor open/short to +batt
	1836-04	1836-04	Auxiliary Temperature Sensor short to ground
	111-02	111-02	Engine Coolant Level Sensor Loss of Signal
13	174-03	174-03	Fuel Temperature open/short to +batt
	174-04	174-04	Fuel Temperature short to ground
21	678-03	41-03	8 Volt DC Supply short to +batt
	678-04	41-04	8 Volt DC Supply short to ground
	620-03	262-03	5 Volt Sensor DC Power Supply short to +batt
	1079-03		
	620-04	262-04	5 Volt Sensor DC Power Supply short to ground
	1079-04		
24	100-03	100-03	Engine Oil Pressure open/short to +batt
	100-04	100-04	Engine Oil Pressure short to ground
	100-10	100-10	Engine Oil Pressure abnormal rate of change
25	102-03	102-03	Boost Pressure Sensor short to +batt
	102-04	102-04	Boost Pressure Sensor short to ground
	102-10	102-10	Boost Pressure Sensor abnormal rate of change
26	108-03	274-03	Atmospheric Pressure open/short to +batt
	108-04	274-04	Atmospheric Pressure short to ground
27	110-03	110-03	Engine Coolant Temperature open/short to +batt
	110-04	110-04	Engine Coolant Temperature short to ground
28	91-13	91-13	Throttle Position calibration required
32	91-08	91-08	Throttle Position signal abnormal

Cross Reference for Diagnostic Codes

Flash Code	SPN ⁽¹⁾ /FMI Code	Diagnostic Code or Event Code	Description of Code
34	190-08	190-08	Engine Speed signal abnormal
	723-08	342-08	Secondary Engine Speed signal abnormal
35	190-15	E362 ⁽²⁾	Engine Overspeed Warning
	190-00		Engine Overspeed Shutdown
37	94-03	94-03	Fuel Pressure open/short to +batt
	94-04	94-04	Fuel Pressure short to ground
38	105-03	172-03	Intake Manifold Air Temp open/short to +batt
	105-04	172-04	Intake Manifold Air Temp short to ground
42	637-13	261-13	Engine Timing calibration required
46	100-17	E360 ⁽²⁾	Low Engine Oil Pressure Warning
	100-18		Low Engine Oil Pressure Derate
	100-01		Low Engine Oil Pressure Shutdown
51	168-00	168-00	System Voltage high
	168-01	168-01	System Voltage low
	168-02	168-02	System Voltage intermittent/erratic
56	630-02	268-02	Check Programmable Parameters
58	639-09	247-09	J1939 Data Link communications
61	110-15	E361 ⁽²⁾	High Engine Coolant Temperature Warning
	110-16		High Engine Coolant Temperature Derate
	110-00		High Engine Coolant Temperature Shutdown
62	111-17	E2143 ⁽²⁾	Low Engine Coolant Level Warning
	111-18		Low Engine Coolant Level Derate
	111-01		Low Engine Coolant Level Shutdown
63	94-15	E096	High Fuel Pressure Warning
64	1636-15	E539 ⁽²⁾	High Inlet Air Temperature Warning
	1636-00		High Inlet Air Temperature Shutdown
65	174-15	E363 ⁽²⁾	High Fuel Temperature Warning
	174-16		High Fuel Temperature Derate
	174-00		High Fuel Temperature Shutdown
71	651-05	001-05	Injector Cylinder 1 open circuit
	651-06	001-06	Injector Cylinder 1 short
	651-11	001-11	Injector Cylinder #1 fault
72	652-05	002-05	Injector Cylinder 2 open circuit
	652-06	002-06	Injector Cylinder 2 short
	652-11	002-11	Injector Cylinder #2 fault

Cross Reference for Diagnostic Codes			
Flash Code	SPN ⁽¹⁾ /FMI Code	Diagnostic Code or Event Code	Description of Code
73	653-05	003-05	Injector Cylinder 3 open circuit
	653-06	003-06	Injector Cylinder 3 short
	653-11	003-11	Injector Cylinder #3 fault
74	654-05	004-05	Injector Cylinder 4 open circuit
	654-06	004-06	Injector Cylinder 4 short
	654-11	004-11	Injector Cylinder #4 fault
75	655-05	005-05	Injector Cylinder 5 open circuit
	655-06	005-06	Injector Cylinder 5 short
	655-11	005-11	Injector Cylinder #5 fault
76	656-05	006-05	Injector Cylinder 6 open circuit
	656-06	006-06	Injector Cylinder 6 short
	656-11	006-11	Injector Cylinder #6 fault

(1) Suspect Parameter Number

(2) Caterpillar Electronic Technician (ET) will display the number 1, 2, or 3 after the event code in order to designate a warning, a derate, or a shutdown.