

Diagnostic Fault Codes For Cummins Engines

Applies to Engine Models QSB T2, QSC T2, QSL T2, QSM11, QSX15, QSK19, QSK23, QST30, QSK45/60/78

Note: These fault codes are current at date of publication. Always refer to engine service manual for the latest information related to engine diagnostics and troubleshooting. Contact your local Cummins dealer for more information.

Fault Severity Level	Fault Severity Function	Action To Be Taken By Operator
1	Stop	Stop Engine Now – Damage Imminent
2	Warning	Warning – Engine May Continue to Run, but Must Be Repaired the Same Day
3	Maintenance	Maintenance – Repair At The Next PM
4	None- Information Only	None – No Lamp Action

FAULT CODE (LAMP)	SID(S) PID(P)	SPN	DESCRIPTION	QSB	QSC	QSL9	QSM11	QSX15	QSK19	QSK23	QST30	QSK45	QSK60	QSK78
	FMI	FMI										HHP Level Number (**)		
111 (Red)	S254 12	629 12	Engine Control Module – Critical internal failure	X	X	X	X	X	X	X	X	3	3	3
112 (Red)	S020 7	635 7	Engine Timing Actuator is not responding to ECM commands						X	X		2	2	2
113 (Yellow)	S020 3	635 3	Engine Timing Actuator Circuit - shorted high						X	X	X	2	2	2
114 (Yellow)	S020 4	635 4	Engine Timing Actuator Circuit - shorted low								X			
115 (Red)	P190 2	190 2	Engine Speed/Position Sensor Circuit - lost both of two signals from the magnetic pickup sensor	X	X	X	X	X	X	X	X	2	2	2
116 (Red)	P156 3	156 3	Fuel Timing Pressure Sensor Circuit - shorted high		X	X			X	X		2	2	2
117 (Red)	P156 4	156 4	Fuel Timing Pressure Sensor Circuit - shorted low		X	X			X	X		2	2	2
118 (Yellow)	P135 3	135 3	Fuel Pump Delivery Pressure Sensor Circuit - shorted high		X	X			X	X		3	3	3
119 (Yellow)	P135 4	135 4	Fuel Pump Delivery Pressure Sensor Circuit - shorted low		X	X			X	X		3	3	3
121 (Yellow)	P190 10	190 10	Engine Speed/Position Sensor Circuit - lost one of two signals from the magnetic pickup sensor		X	X	X	X	X	X	X	2	2	2
122 (Yellow)	P102 3	102 3	Intake Manifold Pressure Sensor #1 Circuit - shorted high	X	X	X	X	X	X	X	X	2	2	2
123 (Yellow)	P102 4	102 4	Intake Manifold Pressure Sensor #1 Circuit - shorted low	X	X	X	X	X	X	X	X	2	2	2
124* (Yellow)		102 16	High Intake Manifold Pressure Left Bank								X	3	3	3
125* (None)		102 18	Low Intake Manifold Pressure Left Bank								X	3	3	3
126* (Yellow)		1129 16	High Intake Manifold Pressure Right Bank								X	3	3	3
127* (None)		1129 18	Low Intake Manifold Pressure Right Bank								X	3	3	3
128* (None)		1129 3	Right Bank Intake Manifold Pressure Sensor Circuit Failed High								X	3	3	3

(*) Denotes Cense Fault codes

(**) HHP QSK45/60/78 Fault Severity Levels:
 Level 1: Stop Engine Now Level 3: Repair at Next PM
 Level 2: Repair Engine Same Day Level 4: Information Only