

QST30 FAULT CODE INFORMATION

FAULT CODE	LAMP ACTION	REASON	EFFECT (Only when fault code is active)
111	Shutdown	Engine Control Module - Critical internal failure.	Engine will not start.
115	Shutdown	Engine Speed/Position Sensor Circuit - Lost both of two signals from the magnetic pickup sensor.	Engine is shut down and can not be run.
121	Warning	Engine Speed/Position Sensor Circuit - Lost one of two signals from the magnetic pickup sensor.	No action is taken by the ECM.
122	Warning	Intake Manifold Pressure Sensor #1 Circuit - Shorted high (left bank).	No action is taken by the ECM. Possible loss of performance.
123	Warning	Intake Manifold Pressure Sensor #1 circuit - Shorted low (left bank).	No action is taken by the ECM. Possible loss of performance.
128	Warning	Intake Manifold Pressure Sensor #2 circuit - Shorted high (right bank).	No action is taken by the ECM. Possible loss of performance.
129	Warning	Intake Manifold Pressure Sensor #2 Circuit - Shorted low (right bank).	No action is taken by the ECM. Possible loss of performance.
135	Warning	Engine Oil Pressure Sensor Circuit - Shorted high.	No engine protection for oil pressure.
141	Warning	Engine Oil Pressure Sensor Circuit - Shorted low.	No engine protection for oil pressure.
143	Warning	Engine Oil Pressure Low - Warning. Voltage signal indicates oil pressure has dropped below the warning threshold for low oil pressure.	Calibration-dependent engine shut down occurs, or no action taken by ECM. Pre-Low oil pressure relay driver is energized.
144	Warning	Engine Coolant Temperature Sensor Circuit - Shorted high.	No engine protection for coolant temperature. Possible white smoke.
145	Warning	Engine Coolant Temperature Sensor Circuit - Shorted low.	No engine protection for coolant temperature. Possible white smoke.
146	Warning	Engine Coolant Temperature High - Warning. Voltage signal indicates coolant temperature has exceeded above the warning threshold for high coolant temperature.	Calibration-dependent engine shut down occurs, or no action is taken by ECM. Pre-High engine temperature relay driver is energized.
151	Shutdown	Engine Coolant Temperature High - Critical. Voltage signal indicates coolant temperature has exceeded the shutdown threshold for high coolant temperature.	Engine will shut down. High engine temperature relay driver is energized.
152	Warning	Engine Coolant Temperature Low - Warning. Voltage signal indicates coolant temperature has dropped below the warning threshold for low coolant temperature.	No action is taken by ECM. Possible hard starting.
153	Warning	Intake Manifold Temperature Sensor #1 Circuit - Shorted high (left bank).	No engine protection for intake manifold temperature. Possible smoke at engine start-up and no-load operation.
154	Warning	Intake Manifold Temperature Sensor #1 Circuit - shorted low (left bank).	No engine protection for intake manifold temperature. Possible smoke at engine start-up and no-load operation.
155	Shutdown	Intake Manifold Temperature #1 High - Critical. Voltage signal indicates intake manifold temperature has exceeded the shutdown threshold for high intake manifold temperature (left bank).	Engine will shut down. High engine temperature relay driver is energized.
159	Warning	Intake Manifold Temperature Sensor #2 circuit - Shorted high (right bank).	No engine protection for intake manifold temperature. Possible smoke at engine start-up and no-load operation.
161	Warning	Intake Manifold Temperature Sensor #2 Circuit - Shorted low (right bank).	No engine protection for intake manifold temperature. Possible smoke at engine start-up and no-load operation.
166	Warning	Rack Position Sensor #1 Circuit - Shorted high (left bank).	No action is taken by the ECM. Engine could possibly run rough.

FAULT CODE	LAMP ACTION	REASON	EFFECT (Only when fault code is active)
167	Warning	Rack Position Sensor #1 Circuit - Shorted low (left bank).	No action is taken by the ECM. Engine could possibly run rough.
168	Warning	Rack Actuator Position #1 Circuit - Open circuit (left bank).	Engine will shut down.
169	Warning	Rack Actuator Position #1 Circuit - Short circuit (left bank).	Engine will shut down.
171	Warning	Fuel rack actuator position 1 circuit - data incorrect (left bank).	Performance could possibly be sluggish or slow to respond.
174	Warning	Rack Actuator Position #2 Circuit - Data incorrect (right bank).	Performance could possibly be sluggish or slow to respond.
179	Warning	Rack Position Sensor #2 Circuit - Shorted high (right bank).	No action is taken by the ECM. Engine could possibly run rough.
181	Warning	Rack Position Sensor #2 Circuit - Shorted low (right bank).	No action is taken by the ECM. Engine could possibly run rough.
182	Warning	Rack Actuator Position #2 Circuit - Short circuit (right bank).	Engine will shut down.
183	Warning	Rack Actuator Position #2 Circuit - Open circuit (right bank).	Engine will shut down.
197	Warning	Engine Coolant Level Low - Warning. Voltage signal indicates low radiator coolant level.	No action is taken by the ECM. Fault Code 146, 151, 228, and/or 233 could possibly also be logged.
212	Warning	Engine Oil Temperature Sensor Circuit - Shorted high.	No engine protection for oil temperature.
213	Warning	Engine Oil Temperature Sensor Circuit - Shorted low.	No engine protection for oil temperature.
214	Shutdown	Engine Oil Temperature High - Critical. Voltage signal indicates oil temperature has exceeded the shutdown threshold for high oil temperature.	Engine will shut down.
219	Warning	Engine Oil Level #2 (remote) Low - Maintenance. Low oil level is detected in the remote oil reservoir used in the Centinel™ system.	Centinel™ system is disabled.
221	Warning	Barometric Ppressure Sensor Circuit - Shorted high.	No action is taken by the ECM. Possible loss of performance.
222	Warning	Barometric Pressure Sensor Circuit - Shorted low.	No action is taken by the ECM. Possible loss of performance.
223	Warning	Engine Oil Burn Valve Solenoid Circuit - Shorted low. The Centinel™ actuator circuit is open or shorted.	ECM turns off the Centinel™ actuator supply voltage, and the Centinel™ system is disabled.
228	Shutdown	Engine Coolant Pressure Low - Critical. Voltage signal indicates coolant pressure has dropped below the shutdown threshold for low coolant pressure.	Engine will shut down.
231	Warning	Engine Coolant Pressure Sensor Circuit - Shorted high.	No engine protection for coolant pressure.
232	Warning	Engine Coolant Pressure Sensor Circuit - Shorted low.	No engine protection for coolant pressure.
233	Warning	Engine Coolant Pressure Low - Warning. Voltage signal indicates coolant pressure has dropped below the warning threshold for low coolant pressure.	Calibration-dependent engine shutdown occurs, or no action is taken by the ECM.
234	Shutdown	Engine Speed High - Critical. Voltage signal indicates engine speed has exceeded the shutdown threshold for engine overspeed.	Engine will shutdown. Overspeed relay driver is energized.
235	Shutdown	Engine Coolant Level Low - Critical. Voltage signal indicates very low radiator coolant level.	Engine will shut down.
253	Shutdown	Engine Oil Level #1 Low - Critical. Voltage signal indicates very low lubricating oil level in the engine.	Engine will shut down.

FAULT CODE	LAMP ACTION	REASON	EFFECT (Only when fault code is active)
254	Shutdown	Fuel Shutoff Valve Circuit - Shorted low. Low voltage detected at the fuel shutoff valve signal pin, or the resistance of the solenoid has dropped below specified threshold.	Engine will shut down.
261	Warning	Fuel Temperature High - Warning. Voltage signal indicates fuel temperature has exceeded the warning threshold or high fuel temperature.	Calibration-dependent engine shut down occurs, or no action is taken by the ECM.
263	Warning	Fuel Temperature Sensor Circuit - Shorted high.	No engine protection for fuel temperature.
265	Warning	Fuel Temperature Sensor Circuit - Shorted low.	No engine protection for fuel temperature.
266	Shutdown	Fuel Temperature High - Critical. Voltage signal indicates fuel temperature has exceeded the shutdown threshold for high fuel temperature.	Engine will shut down.
343	Warning	Engine Control Module - Warning internal hardware failure. Error internal to the ECM.	No action is taken by the ECM. Possible loss of performance.
415	Shutdown	Engine Oil Pressure Low - Critical. Voltage signal indicates oil pressure has dropped below the shutdown threshold for low oil pressure.	Engine will shut down. Low oil pressure relay driver is energized.
421	Warning	Engine Oil Temperature High - Warning. Voltage signal indicates oil temperature has exceeded the warning threshold for high oil temperature.	Calibration-dependent engine shut down occurs, or no action is taken by the ECM.
422	Warning	Engine Coolant Level Sensor Circuit - Data incorrect. Voltage detected simultaneously on both the coolant level high and low signal pins - or - no voltage detected on either pin.	No engine protection for coolant level.
471	Warning	Engine Oil Level #1 Low - Warning. Voltage signal indicates low lubricating oil level in the engine.	Calibration-dependent engine shut down occurs, or no action taken by the ECM.
488	Warning	Intake Manifold Temperature #1 High - Warning. Voltage signal indicates intake manifold temperature has exceeded the warning threshold for high intake manifold temperature.	Calibration-dependent engine shut down occurs, or no action is taken by the ECM. Pre-High engine temperature relay driver is a energized.
581	Warning	Fuel Supply Pump Pressure Sensor Circuit - Shorted high.	No action taken by the ECM. Possible loss of performance.
582	Warning	Fuel Supply Pump Pressure Sensor Circuit - Shorted low.	No action taken by the ECM. Possible loss of performance.
1211	Shutdown	Fuel Shutoff Valve #1 Circuit - Root cause not know (left bank).	Engine will shut down.
1212	Shutdown	Fuel Shutoff Valve #2 Circuit - Root cause not known (right bank).	Engine will shut down.
1411	Warning	Generator Output Frequency Potentiometer - Shorted high.	The frequency adjustment feature will be disabled and a default value of zero will be used. Possible loss of performance.
1412	Warning	Droop Adjust Potentiometer - Shorted high.	The droop adjustment feature will be disabled and a default value of zero will be used. Possible loss of performance.
1413	Shutdown	Controller Configuration Error.	Engine will not start.
1416	Warning	Fail to Shutdown.	The operator has enabled the user-engaged engine shutdown override feature. No engine protection features are working.
1417	Warning	Controller will not Powerdown.	The ECM can not power down from some unknown condition. Possible drain on battery.

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1418	Warning	Gain Adjust Potentiometer - Shorted high.	The gain adjustment feature will be disabled and a default value of zero will be used. Possible loss of performance.
1424	Warning	Relay High Side Driver Diagnostic has detected an error.	The user interface panel lamps will not function correctly. No action is taken by the ECM.
1425	Warning	Common Shutdown Relay Driver Diagnostic has detected an error.	The shutdown panel lamp will not function correctly. No action is taken by the ECM.
1426	Warning	Common Warning Relay Driver Diagnostic has detected an error.	The warning panel lamp will not function correctly. No action taken by the ECM.
1427	Warning	Overspeed (OS) Relay Driver Diagnostic has detected an error.	The overspeed panel lamp will not function correctly. No action taken by the ECM.
1428	Warning	Low Oil Pressure (LOP) Relay Driver Diagnostic has detected an error.	The low oil pressure lamp will not function correctly. No action is taken by the ECM.
1429	Warning	High Engine Temperature (HET) Relay Driver Diagnostic has detected an error.	The high engine temperature panel lamp will not function correctly. No action is taken by the ECM.
1431	Warning	Pre-Low Oil Pressure Relay Driver diagnostic has detected an error.	The Pre-Low oil pressure panel lamp will not function correctly. No action is taken by the ECM.
1432	Warning	Pre-High Engine Temperature Relay Driver Diagnostic has detected an error.	The Pre-High engine temperature panel lamp will not function correctly. No action is taken by the ECM.
1433	Shutdown	Operator Interface Mode Transition to Emergency Stop (due to E-Stop).	Engine will shut down and will not restart until the emergency stop switch has been reset.
1434	Shutdown	Operator Interface Mode Transition to Emergency Stop (due to remote E-Stop).	Engine will shut down and will not restart until the remote emergency stop switch has been reset.
1435	Warning	Engine Cold - Potential starting problem.	No action is taken by the ECM. Possible hard starting.
1438	Warning	Fail to Crank.	No action is taken by the ECM, although the engine will not start.
1443	Shutdown	Battery #1 Voltage Low - Critical. Battery is dead.	Engine will not start.
1473	Shutdown	The ECM Watchdog has failed.	Engine will shutdown.
1479	Warning	Fail to Start Relay Driver Diagnostic has detected an error.	The fail to start panel lamp will not function correctly. No action is taken by the ECM.
2297	Warning	Fuel Supply Pump Driver Diagnostic has detected an error.	Priming pump is disabled. Possible loss of performance.
2974	Warning	Rack Position Sensor #1 Circuit - Shorted high.	No action is taken by ECM. Engine could possibly run rough.
2975	Warning	Rack Position Sensor #2 Circuit - Shorted high.	No action is taken by ECM. Engine could possibly run rough.

Bulletin No. 4021346
Printed in U.S.A. 5/02