CUMMINS ISL & ISC FAULT CODES


ISL & ISC Codes 0-100

0001 Exhaust Gas Pressure Sensor Number 1 Circuit - Voltage Above Normal, or Shorted to High Source

0002 Exhaust Gas Pressure Sensor Number 1 Circuit - Voltage Below Normal, or Shorted to Low Source

0003 Exhaust Gas Pressure Sensor Number 1 Circuit - Data Erratic, Intermittent, or Incorrect

0004 Exhaust Gas Temperature Sensor Number 1 Circuit - Data Erratic, Intermittent, or Incorrect

0005 Exhaust Gas Temperature Sensor Number 1 Circuit - Voltage Below Normal, or Shorted to Low Source

0006 Exhaust Gas Temperature Sensor Number 1 Circuit - Voltage Above Normal, or Shorted to High Source

ISL & ISC Codes 100-200

111 Engine Control Module Critical Internal Failure - Bad Intelligent Device or Component

115 Engine Magnetic Crankshaft Speed/Position Lost Both of Two Signals - Data Erratic, Intermittent, or Incorrect

122 Intake Manifold Pressure Sensor Circuit - Voltage Above Normal or Shorted to High Source

123 Intake Manifold Pressure Sensor Circuit - Voltage Below Normal or Shorted to Low Source

124 Intake Manifold One Pressure - Data Valid but Above Normal Operational Range - Moderately Severe Level

131 Accelerator Pedal or Lever Position Sensor Circuit - Shorted High

132 Accelerator Pedal or Lever Position Sensor Circuit - Voltage Below Normal or Shorted to Low Source

133 Remote Accelerator Pedal or Lever Position Sensor 1 Circuit - Voltage Above Normal, or Shorted to High Source

134 Remote Accelerator Pedal or Lever Position Sensor 1 Circuit - Voltage Below Normal, or Shorted to Low Source

135 Oil Pressure Sensor Choice

135auto Oil Pressure Sensor Circuit — Voltage Above Normal or Shorted to High Source

135mar Oil Pressure Sensor Circuit — Voltage Above Normal or Shorted to High Source

141 Oil Pressure Sensor Circuit Choice

141auto Oil Pressure Sensor Circuit - Voltage Below Normal or Shorted to Low Source

141mar Oil Pressure Sensor Circuit - Voltage Below Normal or Shorted to Low Source

143 Oil Pressure Low Choice
143b Oil Pressure Low - Data Valid but Below Normal Operational Range - Moderately Severe Level
143bm Oil Pressure Low - Data Valid but Below Normal Operational Range - Moderately Severe Level
144 Coolant Temperature Sensor Circuit Choice
144b Engine Coolant Temperature 1 Sensor Circuit - Voltage Above Normal or Shorted to High Source
144bm Engine Coolant Temperature 1 Sensor Circuit - Voltage Above Normal or Shorted to High Source
145 Engine Coolant Temperature 1 Sensor Circuit Choice
145b Engine Coolant Temperature 1 Sensor Circuit - Voltage Below Normal or Shorted to Low Source
145bm Engine Coolant Temperature 1 Sensor Circuit - Voltage Below Normal or Shorted to Low Source
146 Engine Coolant Temperature Choice
146b Engine Coolant Temperature - Data Valid but Above Normal Operational Range - Moderately Severe Level
146bm Engine Coolant Temperature - Data Valid but Above Normal Operational Range - Moderately Severe Level
147 Accelerator Pedal or Lever Position 1 Sensor Circuit Frequency - Data Valid but Below Normal Operational Range - Most Severe Level
148 Accelerator Pedal or Lever Position Sensor One - Data Valid but Above Normal Operational Range - Most Severe level
151 Engine Coolant Temperature Choice
151b Engine Coolant Temperature - Data Valid but Above Normal Operational Range - Most Severe Level
151bm Engine Coolant Temperature - Data Valid but Above Normal Operational Range - Most Severe Level
153 Intake Manifold Air Temperature Sensor Circuit - Voltage Above Normal or Shorted to High Source
154 Intake Manifold Air Temperature Sensor Circuit - Voltage Below Normal or Shorted to Low Source
155 Intake Manifold 1 Temperature Choice
155b Intake Manifold 1 Temperature - Data Valid but Above Normal Operational Range - Most Severe Level
155bm Engine Coolant Temperature 1 Sensor Circuit — Voltage Above Normal or Shorted to High Source
187 Sensor Supply Voltage Number 2 Circuit Choice
187b Sensor Supply Voltage Number 2 Circuit - Voltage Below Normal or Shorted to Low Source
187bm Sensor Supply 2 Circuit - Voltage Below Normal, or Shorted to Low Source
195 Coolant Level Sensor 1 Circuit - Choice
195-2wire Coolant Level Sensor 1 Circuit - Voltage Above Normal or Shorted to High Source
195-3wire Coolant Level Sensor 1 Circuit - Voltage Above Normal or Shorted to High Source
196 Coolant Level Sensor 1 Circuit - Choice
196-2wire Coolant Level Sensor 1 Circuit - Voltage Below Normal or Shorted to Low Source
196-3wire Coolant Level Sensor 1 Circuit - Voltage Below Normal or Shorted to Low Source
197 Coolant Level Low - Data Valid but Below Normal Operational Range - Moderately Severe Level

ISL & ISC Codes 200-300

221 Barometric Pressure Sensor Circuit - Voltage Above Normal or Shorted to High Source
222 Barometric Pressure Sensor Circuit - Voltage Below Normal or Shorted to Low Source
227 Sensor Supply Voltage Number 2 Circuit Choice
227b Sensor Supply Voltage Number 2 Circuit - Voltage Above Normal or Shorted to High Source
227bm Sensor Supply 2 Circuit - Voltage Above Normal or Shorted to High Source
234 Engine Crankshaft Speed/Position Choice
234b Engine Crankshaft Speed/Position — Data Valid but Above Normal Operational Range - Most Severe Level
234bm Engine Crankshaft Speed/Position — Data Valid but Above Normal Operational Range - Most Severe Level
235 Coolant Level Low - Data Valid but Below Normal Operational Range - Most Severe Level
237 External Speed Command Input (Multiple Unit Synchronization - Data Erratic, Intermittent, or Incorrect
238 Sensor Supply 3 Circuit - Voltage Below Normal, or Shorted to Low Source
241 Vehicle Speed Sensor Circuit - Data Erratic, Intermittent, or Incorrect
242 Vehicle Speed Sensor Circuit Tampering Has Been Detected - Abnormal Rate of Change
245 Fan Control Circuit - Voltage Below Normal or Shorted to Low Source
253 Engine Oil Level - Data Valid But Below Normal Operational Range - Most Severe Level
268 Injector Metering Rail 1 Pressure - Data Erratic, Intermittent, or Incorrect
269 Antitheft Password Valid Indicator - Data Erratic, Intermittent, or Incorrect
271 High Fuel Pressure Solenoid Valve Circuit Choice
271b High Fuel Pressure Solenoid Valve Circuit - Voltage Below Normal or Shorted to Low Source
271cl High Fuel Pressure Solenoid Valve Circuit - Voltage Below Normal or Shorted to Low Source
272 High Fuel Pressure Solenoid Valve Circuit Choice
272b High Fuel Pressure Solenoid Valve Circuit - Voltage Above Normal or Shorted to High Source
272cl High Fuel Pressure Solenoid Valve Circuit - Voltage Above Normal or Shorted to High Source
275 Fuel Pumping Element Number 1 (Front - Mechanical System Not Responding Properly or Out of Adjustment
281 Fault Pump Pressurizing Assembly 1 - Mechanical System Not Responding Properly or Out of Adjustment
284 Engine Speed/Position Sensor (Crankshaft Supply Voltage Circuit - Voltage Below Normal or Shorted to Low Source
285 SAE J1939 Multiplexing PGN Timeout Error - Abnormal Update Rate
286 SAE J1939 Multiplexing Configuration Error - Out of Calibration
287 SAE J1939 Multiplexing Accelerator Pedal or Lever Sensor System Error - Received Network Data Error
288 SAE J1939 Multiplexing Remote Accelerator Pedal or Lever Data Error - Received Network Data Error
291 Proprietary Datalink Error (OEM/Vehicle Datalink - Abnormal Update Rate
292 Auxiliary Temperature Sensor Input 1 - Special Instructions
293 Auxiliary Temperature Sensor Input 1 - Voltage Above Normal, or Shorted to High Source
294 Auxiliary Temperature Sensor Input 1 Circuit - Voltage Below Normal, or Shorted to Low Source
295 Barometric Pressure - Data Erratic, Intermittent, or Incorrect
296 Auxiliary Pressure Sensor Input 1 - Special Instructions
296a Auxiliary Pressure Sensor Input 1 - Special Instructions
296lrv Crankcase Pressure - Data Above Normal Operational Range - Severe Level
297 Auxiliary Pressure Sensor Input 1 Circuit - Voltage Above Normal, or Shorted to High Source
298 Auxiliary Pressure Sensor Input 1 Circuit - Voltage Below Normal, or Shorted to Low Source
ISL & ISC Codes 300-400
319 Real Time Clock Power Interrupt - Data Erratic, Intermittent, or Incorrect
322 Injector Solenoid Driver Cylinder 1 Circuit - Current Below Normal, or Open Circuit
323 Injector Solenoid Driver Cylinder 5 Circuit - Current Below Normal, or Open Circuit
324 Injector Solenoid Driver Cylinder 3 Circuit - Current Below Normal, or Open Circuit
325 Injector Solenoid Driver Cylinder 6 Circuit - Current Below Normal, or Open Circuit
331 Injector Solenoid Cylinder Number 2 Circuit - Current Below Normal or Open Circuit
332 Injector Solenoid Cylinder Number 4 Circuit - Current Below Normal or Open Circuit
334 Engine Coolant Temperature - Data Erratic, Intermittent, or Incorrect
341 Engine Control Module Data Lost - Data Erratic, Intermittent, or Incorrect
342 Electronic Calibration Code Incompatibility - Out of Calibration
343 Engine Control Module Warning Internal Hardware Failure - Bad Intelligent Device or Component
351 Injector Power Supply — Bad Intelligent Device or Component
352 Sensor Supply Voltage Number 1 Circuit - Voltage Below Normal or Shorted to Low Source
386 Sensor Supply Voltage Number 1 Circuit - Voltage Above Normal or Shorted to High Source
387 Accelerator Pedal or Lever Position Sensor Supply Voltage Circuit - Voltage Above Normal or Shorted to High Source
ISL & ISC Codes 400-500
412 SAE J1587/J1922 Data Link - Can Not Transmit
415 Engine Oil Rifle Pressure Choice
415sn Engine Oil Rifle Pressure - Data Valid but Below Normal Operational Range - Most Severe Level
415sw Engine Oil Rifle Pressure - Data Valid but Below Normal Operational Range - Most Severe Level
418 Water-In-Fuel Indicator - Data Valid but Above Normal Operational Range - Least Severe Level
426 SAE J1939 Data Link - Cannot Transmit
427 SAE J1939 Datalink - Abnormal Update Rate
428 Water-In-Fuel Sensor Circuit - Voltage Above Normal or Shorted to High Source
429 Water-In-Fuel Sensor Circuit - Voltage Below Normal or Shorted to Low Source
431 Idle Validation Switch Circuit Choice
431iss Accelerator Pedal or Lever Idle Validation Circuit - Data Erratic, Intermittent, or Incorrect
431niss Accelerator Pedal or Lever Idle Validation Circuit - Data Erratic, Intermittent, or Incorrect
431sss Accelerator Pedal or Lever Idle Validation Circuit - Data Erratic, Intermittent, or Incorrect
432 Accelerator Pedal or Lever Idle Validation Circuit - Out of Calibration
433 Intake Manifold Pressure Sensor Circuit - Data Incorrect
434 Power Supply Lost With Ignition On - Data Erratic, Intermittent or Incorrect
435 Oil Pressure Switch Sensor Circuit - Data Erratic, Intermittent or Incorrect
436 Intake Manifold 1 Temperature - Data Erratic, Intermittent, or Incorrect
441 Battery 1 Voltage - Data Valid but Below Normal Operational Range - Moderately Severe Level

442 Battery 1 Voltage - Data Valid but Below Normal Operational Range - Moderately Severe Level

443 Accelerator Pedal or Lever Position Sensor Supply Voltage Circuit — Voltage Below Normal or Shorted to Low Source

449 Fuel Pressure High Choice

449b Injector Metering Rail Number 1 Pressure - Data Valid But Above Normal Operating Range - Most Severe Level

449cl Injector Metering Rail Number 1 Pressure - Data Valid But Above Normal Operating Range - Most Severe Level

451 Injector Metering Rail Number 1 Pressure Sensor Circuit - Voltage Above Normal or Shorted to High Source

452 Injector Metering Rail Number 1 Pressure Sensor Circuit - Voltage Below Normal or Shorted to Low Source

471 Engine Oil Level - Data Valid But Below Normal Operational Range - Least Severe Level

488 Intake Manifold 1 Temperature - Data Valid but Above Normal Operational Range - Moderately Severe Level

497 Multiple Unit Synchronization Switch - Data Erratic, Intermittent, or Incorrect

498 Engine Oil Level Sensor Circuit - Voltage Above Normal, or Shorted to High Source

499 Engine Oil Level Sensor Circuit - Voltage Below Normal, or Shorted to Low Source

ISL & ISC Codes 500-600

523 Auxiliary Intermediate (PTO Speed Switch Validation - Data Erratic, Intermittent, or Incorrect

527 Auxiliary Input/Out Two Circuit Voltage Above Normal or Shorted to High Source

528 Auxiliary Alternate Torque Validation Switch - Data Erratic, Intermittent, or Incorrect

529 Auxiliary Input/Output Three Circuit - Voltage Above Normal, or Shorted to High Source

545 Turbocharger 1 Wastegate Control - Mechanical System Not Responding Properly or Out of Adjustment

551 Idle Validation Switch Circuit Choice

551iss Accelerator Pedal or Lever Idle Validation Circuit - Voltage Below Normal or Shorted to Low Source

551niss Accelerator Pedal or Lever Idle Validation Circuit - Voltage Below Normal or Shorted to Low Source

551sss Accelerator Pedal or Lever Idle Validation Circuit - Voltage Below Normal or Shorted to Low Source

553 Injector Metering Rail One Pressure - Data Valid but Above Normal Operational Range - Moderately Severe Level
554 Injector Metering Rail 1 Pressure - Data Erratic, Intermittent, or Incorrect

559 Fuel Pump Delivery Pressure Low Choice

559b Fuel Pump Delivery Pressure Low - Data Valid but Below Normal Operational Range - Moderately Severe Level

559cl Injector Metering Rail 1 Pressure - Data Valid but Below Normal Operational Range - Moderately Severe Level

584 Starter Relay Circuit - Voltage Above Normal or Shorted to High Source

585 Starter Relay Circuit - Voltage Below Normal or Shorted to Low Source

595 Turbocharger Number 1 Speed High Choice

595b Turbocharger Number 1 Speed High - Warning Level

595cl Turbocharger Number 1 Speed High - Data Valid but Above Normal Operational Range - Moderately Severe Level

596 Electrical Charging System Voltage High - Data Valid but Above Normal Operational Range - Moderately Severe Level

597 Electrical Charging System Voltage Low - Data Valid but Below Normal Operational Range - Moderately Severe Level

598 Electrical Charging System Voltage Low - Data Valid but Below Normal Operational Range - Most Severe Level

599 Auxiliary Commanded Dual Output Shutdown - Special Instructions

ISL & ISC Codes 600-700

649 Change Lubricating Oil and Filter - Condition Exists

687 Turbocharger Speed Sensor Choice

687b Turbocharger Speed Sensor - Below Normal Operating Range

687cl Turbocharger Number 1 Speed Low - Data Valid but Below Normal Operating Range - Moderately Severe Level

688 Engine Oil Level - Data Valid But Above Normal Operational Range - Most Severe Level

689 Engine Crankshaft Speed/Position - Data Erratic, Intermittent, or Incorrect

691 Turbocharger Number 1 Compressor Inlet Temperature Sensor Circuit - Voltage Above Normal or Shorted to High Source

692 Turbocharger Number 1 Compressor Inlet Temperature Sensor Circuit - Voltage Below Normal or Shorted to Low Source

ISL & ISC Codes 700-900

731 Engine Speed/Position Sensors Choice
731b Engine Speed Sensor/Position Camshaft and Crankshaft Misalignment - Mechanical System Not Responding Properly or Out of Adjustment

731bm Engine Speed Sensor/Position Camshaft and Crankshaft Misalignment - Mechanical System Not Responding Properly or Out of Adjustment

757 Electronic Control Module Data Lost - Condition Exists

778 Engine Speed Sensor (Camshaft Error - Data Erratic, Intermittent or Incorrect

779 Auxiliary Equipment Sensor Input Number 3 (OEM Switch - Root Cause Not Known)

784 Adaptive Cruise Control - Error

951 Cylinder Power Imbalance Detected

957 EGR Valve Position - Data Erratic, Intermittent, or Incorrect

958 VGT Position Sensor - Data Erratic, Intermittent, or Incorrect

1117 Power Lost Without Ignition Off Choice

1117auto Power Lost Without Ignition Off - Data Erratic, Intermittent or Incorrect

1117mar Power Lost Without Ignition Off - Data Erratic, Intermittent or Incorrect

1139 Injector Solenoid Driver Cylinder 1 - Mechanical System Not Responding Properly or Out of Adjustment

1141 Injector Solenoid Driver Cylinder 2 - Mechanical System Not Responding Properly or Out of Adjustment

1142 Injector Solenoid Driver Cylinder 3 - Mechanical System Not Responding Properly or Out of Adjustment

1143 Injector Solenoid Driver Cylinder 4 - Mechanical System Not Responding Properly or Out of Adjustment

1144 Injector Solenoid Driver Cylinder 5 - Mechanical System Not Responding Properly or Out of Adjustment

1145 Injector Solenoid Driver Cylinder 6 - Mechanical System Not Responding Properly or Out of Adjustment

ISL & ISC Codes 1200-1600

1228 EGR Valve Position - Data Erratic, Intermittent, or Incorrect

1229 VGT Position Sensor - Data Erratic, Intermittent, or Incorrect

1239 Accelerator Pedal or Lever Position Sensor 2 Circuit - Voltage Above Normal or Shorted to High Source

1241 Accelerator Pedal or Lever Position Sensor 2 Circuit - Voltage Below Normal or Shorted to Low Source

1242 Accelerator Pedal or Lever Position Sensor 1 and 2 - Data Erratic, Intermittent, or Incorrect
ISL & ISC Codes 1600-1700

1633 Komnet Datalink Cannot Transmit - Data Erratic, Intermittent, or Incorrect

1639 Auxiliary Equipment Sensor Input Number 3 (OEM Switch - Root Cause Not Known

1654 Engine Misfire Cylinder 1 - Condition Exists

1655 Engine Misfire Cylinder 2 - Condition Exists

1656 Engine Misfire Cylinder 3 - Condition Exists

1657 Engine Misfire Cylinder 4 - Condition Exists

1658 Engine Misfire Cylinder 5 - Condition Exists

1659 Engine Misfire Cylinder 6 - Condition Exists

1663 Catalyst Inlet Temperature Sensor Swapped with Outlet - Condition Exists

1664 Catalyst Missing - Condition Exists

1665 Exhaust Gas Temperature 1 Circuit - Voltage Below Normal, or Shorted to Low Source

1666 Exhaust Gas Temperature Circuit 1 - Voltage Above Normal, or Shorted to Low Source

1667 Exhaust Gas Temperature 1 - Data Erratic, Intermittent, or Incorrect

1668 Catalyst Tank Level Sensor Circuit - Voltage Below Normal, or Shorted to Low Source

1669 Catalyst Tank Level Sensor Circuit - Voltage Above Normal, or Shorted to High Source

1671 Catalyst Tank Level - Data Valid but Below Normal Operational Range - Moderately Severe Level.

1673 Catalyst Tank Level - Data Erratic, Intermittent, or Incorrect

1674 Exhaust Gas Temperature 2 Circuit - Voltage Below Normal, or Shorted to Low Source

1675 Exhaust Gas Temperature 2 Circuit - Voltage Above Normal, or Shorted to Low Source

1676 Exhaust Gas Temperature 2 - Data Erratic, Intermittent, or Incorrect

1677 Catalyst Tank Temperature - Voltage Below Normal, or Shorted to Low Source

1678 Catalyst Tank Temperature - Voltage Above Normal, or Shorted to High Source

1679 Catalyst Tank Temperature - Data Erratic, Intermittent, or Incorrect

1681 Dosing Control Unit - Bad Intelligent Device or Component

1682 Catalyst Reagent Dosing Unit Input Lines - Condition Exists

1683 Catalyst Tank Heater Circuit - Voltage Above Normal, or Shorted to High Source

1684 Catalyst Tank Heater Circuit - Voltage Above Normal, or Shorted to High Source
1687 Catalyst Over Temperature - Data Valid but Above Normal Operational Range - Most Severe Level
1689 Real-Time Clock Power Interrupt - Data Erratic, Intermittent or Incorrect
1692 Aftertreatment Outlet NOx Sensor - Voltage Below Normal or Shorted to Low Source
1694 Aftertreatment Outlet NOx Sensor - Data Erratic, Intermittent, or Incorrect
1697 Aftertreatment #1 Air Enable Actuator - Voltage Above Normal, or Shorted to High Source
1698 Aftertreatment #1 Air Enable Actuator - Voltage Below Normal, or Shorted to Low Source
1699 Catalyst Tank Level Sensor - Data Erratic, Intermittent, or Incorrect

ISL & ISC Codes 1700-1800

1711 Dosing Control Unit Datalink - Abnormal Update Rate
1712 Catalyst Tank Heater Circuit - Data Valid But Below Normal Operating Range - Moderately Severe Level
1713 Catalyst Tank Heater Circuit - Data Valid But Above Normal Operating Range - Moderately Severe Level
1716 Auxiliary Temperature Sensor Input 1 Circuit - Root Cause Not Known
1717 Exhaust Gas Temperature 1 - Data Valid but Above Normal Operational Range - Least Severe Level
1718 Engine Misfire for Multiple Cylinders - Condition Exists

ISL & ISC Codes 1800-2000

1848 Intake Manifold 1 Temperature - Abnormal Rate of Change
1849 Exhaust Gas Temperature 1 - Abnormal Rate of Change
1851 Exhaust Gas Temperature 2 - Abnormal Rate of Change
1892 Wheel-Based Vehicle Speed - Data Valid but Below Normal Operational Range - Moderately Severe Level
1911 Injector Metering Rail 1 Pressure - Data Valid but Above Normal Operational Range - Most Severe Level

ISL & ISC Codes 2000-2200
2183 Engine Brake Actuator Driver 1 Circuit - Voltage Below Normal, or Shorted to Low Source
2185 Sensor Supply Voltage 4 Circuit - Voltage Above Normal or Shorted to High Source
2186 Sensor Supply Voltage 4 Circuit - Voltage Below Normal or Shorted to Low Source

ISL & ISC Codes 2200-2300
2215 Fuel Pump Delivery Pressure Low Choice
2215b Fuel Pump Delivery Pressure Low - Data Valid but Below Normal Operational Range - Moderately Severe Level

2215cl Fuel Pump Delivery Pressure Low - Data Valid but Below Normal Operational Range - Moderately Severe Level

2216 Fuel Pump Delivery Pressure High Choice

2216b Fuel Pump Delivery Pressure High - Data Valid but Above Normal Operational Range - Moderately Severe Level

2216cl Fuel Pump Delivery Pressure High - Data Valid but Above Normal Operational Range - Moderately Severe Level

2217 Engine Control Module Calibration Program Memory (RAM Corruption - Condition Exists

2249 Injector Metering Rail 1 Pressure - Data Valid but Below Normal Operational Range - Most Severe Level

2265 Electric Lift Pump for Engine Fuel Supply Circuit - Voltage Above Normal or Shorted to High Source

2266 Electric Lift Pump for Engine Fuel Supply Circuit - Voltage Below Normal or Shorted to Low Source

2271 EGR Valve Position Sensor Circuit - Voltage Above Normal or shorted to High Source

2272 EGR Valve Position Sensor Circuit - Voltage Below normal or Shorted to Low Source

2273 EGR Valve Differential Pressure Sensor Circuit - Shorted High

2274 EGR Valve Differential Pressure Sensor Circuit - Shorted Low

2292 Fuel Inlet Meter Device - Data Valid but Above Normal Operational Range - Moderately Severe Level

2293 Fuel Inlet Meter Device Flow Demand Lower Than Expected - Data Valid but Below Normal Operational Range - Moderately Severe Level

ISL & ISC Codes 2300-2500

2311 Fueling Actuator Number 1 Circuit Error Conditions Exists

2321 Engine Crankshaft Speed/Position - Data Erratic, Intermittent, or Incorrect

2322 Backup Engine Speed/Position Sensor Number 2 - Data Erratic, Intermittent, or Incorrect

2345 Turbocharger Speed Choice

2345b Turbocharger Speed - Invalid Rate of Change Detected

2345cl Turbocharger Speed Invalid Rate of Change detected - Abnormal Rate of Change

2346 Exhaust Gas Temperature Choice

2346b Exhaust Gas Temperature - Data Above Normal

2346cl Turbocharger Turbine Inlet Temperature (Calculated - Data Valid but Above Normal Operational Range - Least Severe Level
2347 Turbocharger Compressor Outlet Temperature Choice

2347b Turbocharger Compressor Outlet Temperature - Data Above Normal

2347cl Turbocharger Compressor Outlet Air Temperature (Calculated - Data Valid but Above Normal Range

2348 EGR Valve Failed Automatic Calibration Procedure

2349 EGR Valve Control Circuit - Current Below Normal or Open Circuit

2351 EGR Valve Control Circuit - Voltage Below Normal or Shorted to Low Source

2352 EGR Valve Control Circuit - Voltage Above Normal or Shorted to High Source

2353 EGR Valve Control Circuit - Current Above Normal or Grounded Circuit

2357 EGR Valve Control - Mechanical System Not Responding Properly or Out of Adjustment

2359 EGR Differential Pressure Sensor - Data Valid But Above Normal Operating Range - Moderately Severe Level

2362 Engine Brake Actuator Circuit Number 1 - Voltage Below Normal or Shorted to Low Source

2363 Engine Brake Actuator Circuit Number 2 - Voltage Below Normal or Shorted to Low Source

2366 Engine Brake Actuator Circuit Number 1 - Voltage Above Normal or Shorted to High Source

2367 Engine Brake Actuator Circuit Number 2 - Voltage Above Normal or Shorted to High Source

2373 Exhaust Gas Pressure Sensor Circuit - Shorted High

2374 Exhaust Gas Pressure Sensor Circuit - Shorted Low

2375 Exhaust Gas Recirculation (EGR Temperature Sensor Circuit - Voltage Above Normal or Shorted to High Source

2376 Recirculation Exhaust Gas Temperature Sensor Circuit - Voltage Below Normal or Shorted to Low Source

2377 Fan Control Circuit - Voltage Above Normal or Shorted to High Source

2381 Turbocharger Position Sensor Circuit - Shorted High

2382 Turbocharger Position Sensor Circuit - Shorted Low

2383 Variable Geometry Turbocharger Actuator Circuit - Current Below Normal, or Open Circuit

2384 VGT Actuator Choice

2384b VGT Actuator - Voltage Below Normal or Shorted to Low Source

2384cl VGT Actuator Driver Circuit - Voltage Below Normal, or Shorted to Low Source

2385 VGT Actuator Choice
2385b VGT Actuator - Voltage Above Normal or Shorted to High Source

2385c1 VGT Actuator Driver Circuit - Voltage Above Normal, or Shorted to High Source

2386 Turbocharger Actuator Motor Circuit - Current Above Normal

2387 Turbocharger Actuator Motor - Mechanical System Not Responding Properly

2388 Variable Geometry Turbocharger Actuator Position Failed Automatic Calibration Procedure - Out of Calibration

ISL & ISC Codes 2500-2800

2554 Exhaust Pressure Sensor Circuit - Data Erratic, Intermittent, or Incorrect

2555 Intake Air Heater Number 1 Circuit - Voltage Above Normal or Shorted to High Source

2556 Intake Air Heater Number 1 Circuit - Voltage Below Normal or Shorted to Low Source

2557 Auxiliary PWM Driver Number 1 - Voltage Above Normal or Shorted to High Source

2558 Auxiliary PWM Driver Number 1 - Voltage Below Normal or Shorted to Low Source

2659 Engine Coolant Temperature - Condition Exists

2771 Aftertreatment Outlet NOx Sensor - Abnormal Update Rate

2772 Aftertreatment Outlet NOx - Data Valid but Above Normal Operational Range - Least Severe Level

2773 Aftertreatment Outlet NOx - Data Valid but Above Normal Operational Range - Most Severe Level

ISL & ISC Codes 2800-3000

2961 EGR Temperature - Data Valid But Above Normal Operating Range, Least Severe Level

2962 EGR Temperature - Data Valid But Above Normal Operating Range, Moderately Severe Level

2963 Engine Coolant Temperature High - Data Valid but Above Normal Operational Range - Least Severe Level

2964 Intake Manifold Temperature High - Data Valid but Above Normal Operational Range - Least Severe Level

2973 Intake Manifold Pressure Sensor Circuit - Data Erratic, Intermittent or Incorrect

2976 Dosing Control Unit Temperature - Data Erratic, Intermittent, or Incorrect

ISL & ISC Codes 9000-9122

9121 EGR Valve Actuator Over Temperature (Calculated - Data Above Normal Range

9122 Variable Geometry Turbocharger Actuator Over Temperature