

## CUMMINS ISM FAULT CODES

<https://truck-manuals.jimdo.com/cummins-fault-codes/cummins-ism-fault-codes/>

111 Engine Control Module Critical Internal Failure - Bad Intelligent Device or Component  
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  
131 Accelerator Pedal 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 Circuit - Voltage Above Normal, or Shorted to High Source  
134 Remote Accelerator Pedal or Lever Position Sensor Circuit - Voltage Below Normal, or Shorted to Low Source  
135 Oil Pressure Sensor Circuit - Voltage Above Normal or Shorted to High Source  
141 Oil Pressure Sensor Circuit - Voltage Below Normal or Shorted to Low Source  
143 Oil Pressure Low - Data Valid but Below Normal Operational Range - Moderately Severe Level  
144 Coolant Temperature Sensor Circuit - Voltage Above Normal or Shorted to High Source  
145 Coolant Temperature Sensor Circuit - Voltage Below Normal or Shorted to Low Source  
151 Coolant Temperature High - 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 Air Temperature High - Data Valid but Above Normal Operational Range - Most Severe Level  
187 Sensor Supply Voltage Number 2 Circuit - Voltage Below Normal or Shorted to Low Source  
195 Coolant Level Sensor Circuit - Choice  
195-2wire Coolant Level Sensor Circuit — Voltage Above Normal or Shorted to High Source  
195-3wire Coolant Level Sensor Circuit — Voltage Above Normal or Shorted to High Source  
196 Coolant Level Sensor Circuit - Choice  
196-2wire Coolant Level Sensor Circuit — Voltage Below Normal or Shorted to Low Source  
196-3wire Coolant Level Sensor Circuit — Voltage Below Normal or Shorted to Low Source  
197 Coolant Level Low - Data Valid but Below Normal Operational Range - Moderately Severe Level

### ISM Codes 200 - 300

212 Oil Temperature Sensor Circuit - Voltage Above Normal, or Shorted to High Source  
213 Oil Temperature Sensor Circuit - Voltage Below Normal, or Shorted to Low Source  
214 Oil Temperature High - Data Valid but Above Normal Operational Range - Most Severe Level  
219 Oil Level Number 2 (Remote Low - Data Valid but Below Normal Operational Range - Least Severe Level  
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  
223 Oil Burn Valve Solenoid Circuit - Voltage Below Normal, or Shorted to Low Source  
224 Oil Burn Valve Solenoid Circuit - Voltage Above Normal, or Shorted to High Source  
227 Sensor Supply Voltage Number 2 Circuit - Voltage Above Normal or Shorted to High Source  
234 Engine Speed High - Data Valid but Above Normal Operational Range - Most Severe Level  
235 Coolant Level Low - Data Valid but Below Normal Operational Range - Most Severe Level  
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  
249 Ambient Air Temperature Sensor Circuit - Voltage Above Normal, or Shorted to High Source  
254 Fuel Shutoff Valve Circuit - Voltage Below Normal, or Shorted to Low Source  
255 Fuel Shutoff Valve Circuit - Voltage Above Normal, or Shorted to High Source  
256 Ambient Air Temperature Sensor Circuit - Voltage Below Normal, or Shorted to Low Source  
259 Engine Fuel Shutoff Valve Stuck Open - Mechanical System not Responding Properly or Out of Adjustment  
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  
295 Barometric Air Pressure Sensor Circuit - Data Erratic, Intermittent, or Incorrect

#### ISM Codes 300 - 400

311 Injector Solenoid Cylinder Number 1 Circuit - Current Above Normal, or Grounded Circuit  
312 Injector Solenoid Cylinder Number 5 Circuit - Current Above Normal, or Grounded Circuit  
313 Injector Solenoid Cylinder Number 3 Circuit - Current Above Normal, or Grounded Circuit  
314 Injector Solenoid Cylinder Number 6 Circuit - Current Above Normal, or Grounded Circuit  
315 Injector Solenoid Cylinder Number 2 Circuit - Current Above Normal, or Grounded Circuit  
321 Injector Solenoid Cylinder Number 4 Circuit - Current Above Normal, or Grounded Circuit  
322 Injector Solenoid Cylinder Number 1 Circuit - Current Below Normal or Open Circuit  
323 Injector Solenoid Cylinder Number 5 Circuit - Current Below Normal or Open Circuit  
324 Injector Solenoid Cylinder Number 3 Circuit - Current Below Normal or Open Circuit  
325 Injector Solenoid Cylinder Number 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  
338 Idle Shutdown Vehicle Accessories Relay Circuit - Voltage Above Normal, or Shorted to High Source  
339 Idle Shutdown Vehicle Accessories Relay Circuit - Voltage Below Normal, or Shorted to Low Source  
341 Engine Control Module Data Lost - Data Erratic, Intermittent, or Incorrect  
343 Engine Control Module Warning Internal Hardware Failure - 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

#### ISM Codes 400 - 500

415 Oil Pressure Low - Data Valid but Below Normal Operational Range - Most Severe Level  
418 Water-In-Fuel Indicator High - Data Valid but Above Normal Operational Range - Least Severe Level  
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 Idle Validation Switch Circuit - Integrated Switch and Sensor Type  
431niss Idle Validation Switch Circuit - Non-Integrated Switch and Sensor Type  
431sss Idle Validation Switch Circuit - Solid-State Switch and Sensor Type  
432 Accelerator Pedal or Lever Idle Validation Circuit - Out of Calibration  
433 Intake Manifold Pressure Sensor Circuit - Data Erratic, Intermittent, or Incorrect  
434 Power Lost without Ignition Off - Data Erratic, Intermittent, or Incorrect  
435 Oil Pressure Sensor Circuit - Data Erratic, Intermittent, or Incorrect  
443 Accelerator Pedal or Lever Position Sensor Supply Voltage Circuit - Voltage Below Normal or Shorted to Low Source

#### ISM Codes 500 - 600

551 Idle Validation Switch Circuit Choice  
551iss Idle Validation Switch Circuit - Integrated Switch and Sensor Type  
551niss Idle Validation Switch Circuit - Non-Integrated Switch and Sensor Type  
551sss Idle Validation Switch Circuit - Solid-State Switch and Sensor Type  
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 - 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

#### ISM Codes 600- 1000

649 Change Lubricating Oil and Filter - Condition Exists

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

689 Primary Engine Speed Sensor Error - 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

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

784 Loss of Communication with Adaptive Cruise Control - Data Erratic, Intermittent or Incorrect

951 Cylinder Power Imbalance Between Cylinders - Data Erratic, Intermittent, or Incorrect

#### ISM Codes 1000 - 9121

1119 Engine Coolant Temperature - Data Valid but Above Normal Operational Range - Moderately Severe Level

1137 Hall Effect Speed Sensors Connected Incorrectly - Condition Exists

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

1943 Ambient Air Density - Data Valid But Below Normal Operational Range - Least Severe Level

2197 (OEM Temperature Sensor Engine Protection Warning - Root Cause Not Known

2271 EGR Valve Position Circuit - Voltage Above Normal, or Shorted to High Source

2272 EGR Valve Position Circuit - Voltage Below Normal, or Shorted to Low Source

2273 EGR Valve Delta Pressure Sensor Circuit - Voltage Above Normal, or Shorted to High Source

2274 EGR Valve Delta Pressure Sensor Circuit - Voltage Below Normal, or Shorted to Low Source

2346 Turbocharger Turbine Inlet Temperature (Calculated - Data Valid but Above Normal Operational Range - Least Severe Level

2347 Turbocharger Compressor Outlet Temperature (Calculated - Data Valid but Above Normal Operational Range - Least Severe Level)

2348 EGR Valve Position Failed Automatic Calibration Procedure - Out of Calibration

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

(105-fc2359 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 Pressure Sensor Circuit - Voltage Above Normal, or Shorted to High Source

2374 Exhaust Pressure Sensor Circuit - Voltage Below Normal, or Shorted to Low Source

2375 EGR Gas Temperature Sensor Circuit - Voltage Above Normal, or Shorted to High Source

2376 EGR Gas Temperature Sensor Circuit - Voltage Below Normal, or Shorted to Low Source

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

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

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

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

2961 EGR Temperature - Data Valid but Above Normal Operational Range - Least Severe Level  
2962 EGR Temperature - Data Valid but Above Normal Operational 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  
9121 EGR Valve Actuator Over Temperature (Calculated - Data Valid but Above Normal Operational Range - Least Severe Level)