

# Cummins ISX Fault Codes:

**A complete list of all fault codes for the Cummins ISX engine (before 2002).**

Here are all the Cummins ISX fault codes available for the Cummins ECM. These Cummins trouble codes pertain to ISX engines built **without** the EGR system (before 2002).

## ISX Fault Code List

111 Electronic Control Module (ECM Microprocessor	349 Auxiliary Speed Governor
115 Camshaft Engine Position Sensor Circuit	352 Sensor Voltage Supply
121 Crankshaft Engine Position Sensor Circuit	359 ICON™ Idle Control System
122 Intake Manifold Pressure Sensor Circuit	378 Actuator Circuit
123 Intake Manifold Pressure Sensor Circuit	379 Actuator Circuit
131 Accelerator Position Sensor Circuit	386 Sensor Voltage Supply
132 Accelerator Position Sensor Circuit	387 Throttle Voltage Supply
133 Remote Throttle Position Sensor Circuit	388 Engine Brake Supply Circuit
134 Remote Throttle Position Sensor Circuit	392 Engine Brake Supply Circuit
135 Oil Pressure Sensor Circuit	393 Engine Brake Supply Circuit
141 Oil Pressure Sensor Circuit	394 Actuator Circuit
143 Oil Pressure Sensor Circuit	395 Actuator Circuit
144 Coolant Temperature Sensor Circuit	396 Actuator Circuit
145 Coolant Temperature Sensor Circuit	397 Actuator Circuit
147 Frequency Throttle Circuit	398 Actuator Circuit
148 Frequency Throttle Circuit	399 Actuator Circuit
153 Intake Manifold Temperature Sensor Circuit	415 Actuator Circuit
154 Intake Manifold Temperature Sensor Circuit	419 Intake Manifold Pressure Sensor
187 Sensor Voltage Supply	422 Coolant Level Sensor Circuit
198 ICON™ Lamp Circuit	426 J1939 Datalink Communication
199 ICON™ Lamp Circuit	428 Water-In-Fuel (WIF) Sensor Circuit
212 Oil Temperature Sensor Circuit	429 Water-In-Fuel (WIF) Sensor Circuit
213 Oil Temperature Sensor Circuit	431 Idle Validation Switch Choice
216 Wet Tank Pressure Sensor Circuit	431iss Idle Validation Switch Circuit
217 Wet Tank Pressure Sensor Circuit	431niss Idle Validation Switch Circuit
218 Wet Tank Pressure Sensor Circuit	431sss Idle Validation Switch Circuit
221 Ambient Air Pressure Sensor Circuit	432 Accelerator Pedal Circuit
222 Ambient Air Pressure Sensor Circuit	433 Intake Manifold Pressure Circuit
223 Burn Valve Solenoid	434 Unswitched Battery Supply Circuit
227 Sensor Voltage Supply	435 Oil Pressure Sensor
234 Engine Overspeed	441 Unswitched Battery Supply Circuit
235 Engine Coolant Level - Engine Protection	442 Unswitched Battery Supply Circuit
241 Vehicle Speed Sensor Circuit	443 Throttle Voltage Supply
242 Vehicle Speed Sensor Circuit	449 High Fuel Pressure
245 Engine Fan Clutch Supply Circuit	451 Front Rail Pressure Sensor Circuit
249 Ambient Air Temperature Sensor Circuit	452 Front Rail Pressure Sensor Circuit
254 Fuel Shutoff Valve Solenoid Supply Circuit	465 Wastegate Actuator Number 1 Circuit
255 Fuel Shutoff Valve Solenoid Supply Circuit	466 Wastegate Actuator Number 1 Circuit
256 Ambient Air Temperature Sensor Circuit	469 ICON™ Cab Thermostat Circuit
259 Fuel Shutoff Valve	472 Crankcase Oil Level Sensor Circuit
284 Sensor Supply Voltage	474 Starter Solenoid Lockout Relay Driver Circuit
285 J1939 Datalink Multiplexing	475 Electronic Air Compressor Governor Circuit
286 J1939 Datalink Multiplexing	476 Electronic Air Compressor Governor Circuit
293 OEM Temperature Sensor Circuit	482 Low Fuel Pressure
294 OEM Temperature Sensor Circuit	483 Rear Rail Pressure Sensor Circuit
295 Ambient Air Pressure Sensor	484 Rear Rail Pressure Sensor Circuit
297 OEM Pressure Sensor Circuit	485 Rear Rail Pressure Sensor Circuit
298 OEM Pressure Sensor Circuit	486 Fuel System Underfueling
319 Real-Time Clock Power Circuit	489 Auxiliary Speed Input Error
338 Idle Shutdown Vehicle Accessory/Ignition Bus Relay Circuit	491 Wastegate Actuator Number 2 Circuit
339 Idle Shutdown Vehicle Accessory/Ignition Bus Relay Circuit	492 Wastegate Actuator Number 2 Circuit
341 Unswitched Battery Supply Circuit	496 Sensor Supply Voltage
343 Electronic Control Module (ECM	527 Switched Output A Error
	528 Switched Output B Error
	529 Switched Output B Error

536 Autoshift Low Gear Actuator (Lockout Solenoid Circuit  
 537 Autoshift High Gear Actuator (Shift Solenoid Circuit  
 538 Autoshift Neutral Actuator  
 541 ICON™ Starter Relay/Interlock Circuit  
 544 Top 2 Transmission Circuit - Mechanical System Failure  
 546 Fuel Pressure Sensor Circuit  
 547 Fuel Pressure Sensor Circuit  
 551 Idle Validation Switch Choice  
 551iss Idle Validation Switch Circuit  
 551ivs Idle Validation Switch Circuit  
 551sss Idle Validation Switch Circuit  
 553 Fuel System Overfueling  
 559 Fuel System Underfueling  
 581 Fuel Inlet Restriction Sensor Circuit  
 582 Fuel Inlet Restriction Sensor Circuit

583 Fuel Inlet Restriction Sensor Circuit  
 588 Engine Start Alarm Circuit  
 589 Engine Start Alarm Circuit  
 595 Turbocharger Speed High (Calculated  
 596 Voltage Monitor - High Voltage  
 597 Voltage Monitor - Low Voltage  
 598 Voltage Monitor - Very Low Voltage  
 731 Engine Speed Sensor and Camshaft Position Sensor -  
 Mechanical Misalignment Between Camshaft and Crankshaft  
 Sensors  
 753 Engine Speed Sensor Circuit  
 755 Fuel Injector  
 758 Fuel Injector  
 784 Adaptive Cruise Control Circuit  
 951 Cylinder Power Imbalance

### **Cummins ISX Codes 111-500**

111 Electronic Control Module Critical Internal Failure - Bad Intelligent Device or Component  
 115 Engine Magnetic Speed/Position Lost Both of Two Signals - Data Erratic, Intermittent, or Incorrect  
 122 Intake Manifold 1 Pressure Sensor Circuit - Voltage Above Normal, or Shorted to High Source  
 123 Intake Manifold 1 Pressure Sensor Circuit - Voltage Below Normal, or Shorted to Low Source  
 125 Intake Manifold 1 Pressure - Data Valid but Below Normal Operational Range - Moderately Severe Level  
 131 Accelerator Pedal or Lever Position Sensor 1 Circuit - Voltage Above Normal, or Shorted to High Source  
 132 Accelerator Pedal or Lever Position Sensor 1 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 Engine Oil Rifle Pressure 1 Sensor Circuit - Voltage Above Normal, or Shorted to High Source  
 141 Engine Oil Rifle Pressure 1 Sensor Circuit - Voltage Below Normal, or Shorted to Low Source  
 143 Engine Oil Rifle Pressure - Data Valid but Below Normal Operational Range - Moderately Severe Level  
 144 Engine Coolant Temperature 1 Sensor Circuit - Voltage Above Normal, or Shorted to High Source  
 145 Engine Coolant Temperature 1 Sensor Circuit - Voltage Below Normal, or Shorted to Low Source  
 146 Engine Coolant Temperature - Data Valid but Above Normal Operational Range - Moderately Severe Level  
 151 Engine Coolant Temperature - Data Valid but Above Normal Operational Range - Most Severe Level  
 153 Intake Manifold 1 Temperature Sensor Circuit - Voltage Above Normal, or Shorted to High Source  
 154 Intake Manifold 1 Temperature Sensor Circuit - Voltage Below Normal, or Shorted to Low Source  
 155 Intake Manifold 1 Temperature - Data Valid but Above Normal Operational Range - Most Severe Level  
 187 Sensor Supply 2 Circuit Choice  
 187ism Sensor Supply 2 Circuit - Voltage Below Normal, or Shorted to Low Source  
 187isx 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 - Data Valid but Below Normal Operational Range - Moderately Severe Level  
 212 Engine Oil Temperature Sensor 1 Circuit - Voltage Above Normal, or Shorted to High Source  
 213 Engine Oil Temperature Sensor 1 Circuit — Voltage Below Normal, or Shorted to Low Source  
 214 Engine Oil Temperature High - Data Valid but Above Normal Operational Range - Most 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  
 227 Sensor Supply 2 Circuit - Voltage Above Normal, or Shorted to High Source  
 234 Engine Crankshaft Speed/Position - Data Valid but Above Normal Operational Range - Most Severe Level  
 238 Sensor Supply 3 Circuit - Voltage Below Normal, or Shorted to Low Source  
 241 Wheel-Based Vehicle Speed - Data Erratic, Intermittent or Incorrect  
 242 Wheel-Based 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 1 Circuit - Voltage Above Normal, or Shorted to High Source  
 254 Engine Fuel Shutoff Valve Driver Circuit - Voltage Below Normal, or Shorted to Low Source  
 255 Engine Fuel Shutoff Valve Driver Circuit - Voltage Above Normal, or Shorted to High Source  
 256 Ambient Air Temperature Sensor 1 Circuit - Voltage Below Normal, or Shorted to Low Source  
 257 Engine Fuel shutoff Valve Driver - Mechanical System Not Responding Properly or Out of Adjustment  
 263 Engine Fuel Temperature Sensor 1 Circuit - Voltage Above Normal, or Shorted to High Source

265 Engine Fuel Temperature Sensor 1 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 Multiplexed Accelerator Pedal or Lever Sensor System - Received Network Data In Error  
288 SAE J1939 Multiplexing Remote Accelerator Pedal or Lever Position Sensor System - Received Network Data In Error  
295 Barometric Pressure - Data Erratic, Intermittent, or Incorrect  
311 Injector Solenoid Driver Cylinder 1 Circuit - Current Above Normal, or Grounded Circuit  
312 Injector Solenoid Driver Cylinder 5 Circuit - Current Above Normal, or Grounded Circuit  
313 Injector Solenoid Driver Cylinder 3 Circuit - Current Above Normal, or Grounded Circuit  
314 Injector Solenoid Driver Cylinder 6 Circuit - Current Above Normal, or Grounded Circuit  
315 Injector Solenoid Driver Cylinder 2 Circuit - Current Above Normal, or Grounded Circuit  
319 Real Time Clock Power Interrupt - Data Erratic, Intermittent, or Incorrect  
321 Injector Solenoid Driver Cylinder 4 Circuit - Current Above Normal, or Grounded Circuit  
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 Driver Cylinder 2 Circuit - Current Below Normal, or Open Circuit  
332 Injector Solenoid Driver Cylinder 4 Circuit - Current Below Normal, or Open Circuit  
338 Idle Shutdown Vehicle Accessories Relay Driver Circuit - Voltage Above Normal, or Shorted to High Source  
339 Idle Shutdown Vehicle Accessories Relay Driver Circuit - Voltage Below Normal, or Shorted to Low Source  
343 Engine Control Module Warning Internal Hardware Failure - Bad Intelligent Device or Component  
346 Engine Control Module Calibration Memory Software - Bad Intelligent Device or Component  
351 Injector Power Supply - Bad Intelligent Device or Component  
352 Sensor Supply 1 Circuit - Voltage Below Normal, or Shorted to Low Source  
386 Sensor Supply 1 Circuit - Voltage Above Normal, or Shorted to High Source  
415 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  
427 SAE J1939 Datalink - Abnormal Update Rate  
428 Water-in-Fuel Indicator Sensor Circuit - Voltage Above Normal, or Shorted to High Source  
429 Water-in-Fuel Indicator Sensor Circuit - Voltage Below Normal, or Shorted to Low Source  
435 Engine Oil Rifle Pressure - 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 Above Normal Operational Range - Moderately Severe Level

#### **Cummins ISX Codes 500-1000**

546 Fuel Delivery Pressure Sensor Circuit - Voltage Above Normal, or Shorted to High Source  
547 Fuel Delivery Pressure Sensor Circuit - Voltage Below Normal, or Shorted to Low Source  
555 Crankcase Pressure - Data Valid but Above Normal Operational Range - Moderately Severe Level  
556 Crankcase Pressure — Data Valid but Above Normal Operational Range — Most Severe Level  
584 Starter Relay Driver Circuit - Voltage Above Normal, or Shorted to High Source  
585 Starter Relay Driver Circuit - Voltage Below Normal, or Shorted to Low Source  
596 Electrical Charging System Voltage - Data Valid but Above Normal Operational Range - Moderately Severe Level  
597 Electrical Charging System Voltage - Data Valid but Below Normal Operational Range - Moderately Severe Level  
598 Electrical Charging System Voltage - Data Valid but Below Normal Operational Range - Most Severe Level  
649 Engine Oil Change Interval - Condition Exists  
686 Turbocharger 1 Speed - Data Erratic, Intermittent, or Incorrect  
687 Turbocharger 1 Speed - Data Valid but Below Normal Operational Range - Moderately Severe Level  
689 Engine Crankshaft Speed/Position - Data Erratic, Intermittent, or Incorrect  
689ism Engine Crankshaft Speed/Position - Data Erratic, Intermittent, or Incorrect  
689isx Engine Crankshaft Speed/Position - Data Erratic, Intermittent, or Incorrect  
691 Turbocharger 1 Compressor Inlet Temperature Sensor Circuit - Voltage Above Normal, or Shorted to High Source  
692 Turbocharger 1 Compressor Inlet Temperature Sensor Circuit - Voltage Below Normal, or Shorted to Low Source  
697 ECM Internal Temperature Sensor Circuit - Voltage Above Normal, or Shorted to High Source  
698 ECM Internal Temperature Sensor Circuit - Voltage Below Normal, or Shorted to Low Source  
731 Engine Speed / Position Camshaft and Crankshaft Misalignment - Mechanical System Not Responding Properly or Out of Adjustment  
778 Engine Camshaft Speed/Position Sensor Choice  
778ism Engine Camshaft Speed/Position Sensor - Data Erratic, Intermittent, or Incorrect  
778isx Engine Camshaft Speed/Position Sensor - Data Erratic, Intermittent, or Incorrect  
784 Adaptive Cruise Control Mode - Data Erratic, Intermittent, or Incorrect

#### **Cummins ISX Codes 1000-1300**

1117 Power Supply Lost With Ignition On - 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

#### **Cummins ISX Codes 1300-1700**

1663 Catalyst Inlet Temperature Sensor Swapped with Outlet - Condition Exists  
1664 Catalyst Missing - Condition Exists  
1665 Aftertreatment Exhaust Gas Temperature 1 Circuit - Voltage Below Normal, or Shorted to Low Source  
1666 Aftertreatment Exhaust Gas Temperature 1 Circuit - Voltage Above Normal, or Shorted to High Source  
1667 Aftertreatment Exhaust Gas Temperature 1 - Data Erratic, Intermittent, or Incorrect  
1674 Aftertreatment Exhaust Gas Temperature 2 Circuit - Voltage Below Normal, or Shorted to Low Source  
1675 Aftertreatment Exhaust Gas Temperature 2 Circuit - Voltage Above Normal, or Shorted to High Source  
1676 Aftertreatment Exhaust Gas Temperature 2 - Data Erratic, Intermittent, or Incorrect  
1691 Catalyst Efficiency - Out of Calibration  
1695 Sensor Supply 5 - Voltage Above Normal, or Shorted to High Source  
1696 Sensor Supply 5 - Voltage Below Normal, or Shorted to Low Source

#### **Cummins ISX Codes 1700-1900**

1843 Crankcase Pressure Circuit - Voltage Above Normal, or Shorted to High Source  
1844 Crankcase Pressure Circuit - Voltage Below Normal, or Shorted to Low Source  
1866 Exhaust Gas Recirculation Valve Delta Pressure - Data Erratic, Intermittent, or Incorrect  
1876 Aftertreatment Exhaust Gas Temperature 3 Circuit - Voltage Above Normal, or Shorted to High Source  
1877 Aftertreatment Exhaust Gas Temperature 3 Circuit - Voltage Below Normal, or Shorted to Low Source  
1878 Aftertreatment Exhaust Gas Temperature 3 - Data Erratic, Intermittent, or Incorrect  
1879 Aftertreatment Particulate Filter Differential Pressure Sensor Circuit - Voltage Above Normal, or Shorted to High Source  
1881 Aftertreatment Particulate Filter Differential Pressure Sensor Circuit - Voltage Below Normal, or Shorted to Low Source  
1883 Aftertreatment Particulate Filter Differential Pressure Sensor - Data Erratic, Intermittent, or Incorrect  
1893 EGR Valve Control Circuit - Abnormal Update Rate  
1895 EGR Valve Controller - Bad Intelligent Device or Component  
1896 EGR Valve Controller - Out of Calibration  
1899 Exhaust Gas Recirculation Valve Delta Pressure - Data Valid but Above Normal Operational Range- Moderately Severe Level

#### **Cummins ISX Codes 1900-2000**

1921 Aftertreatment Particulate Filter Differential Pressure - Data Valid but Above Normal Operational Range - Moderately Severe Level  
1922 Aftertreatment Particulate Filter Differential Pressure - Data Valid but Above Normal Operational Range - Most Severe Level  
1923 Aftertreatment Fuel shutoff Valve 1 Circuit - Voltage Above Normal, or Shorted to High Source  
1924 Aftertreatment Fuel Shutoff Valve 1 Circuit - Voltage Below Normal, or Shorted to Low Source  
1925 Aftertreatment Fuel Shutoff Valve 1 - Data Erratic, Intermittent, or Incorrect  
1926 Aftertreatment Fuel Pressure Sensor - Data Erratic, Intermittent, or Incorrect  
1927 Aftertreatment Fuel Pressure Sensor - Voltage Above Normal, or Shorted to High Source  
1928 Aftertreatment Fuel Pressure Sensor - Voltage Below Normal, or Shorted to Low Source  
1932 Aftertreatment Fuel Injector 1 - Data Erratic, Intermittent, or Incorrect  
1933 ECU Power Output Supply Voltage 2 - Data Valid but Above Normal Operational Range - Moderately Severe Level  
1934 ECU Power Output Supply Voltage 2 - Data Valid but Below Normal Operational Range - Moderately Severe Level  
1935 EGR Actuator Driver Circuit - Root Cause Not Known  
1938 ECU Power Output Supply Voltage 1 - Data Valid but Below Normal Operational Range - Moderately Severe Level  
1942 Crankcase Pressure - Data Erratic, Intermittent, or Incorrect  
1943 Ambient Air Density - Data Valid but Below Normal Operational Range - Least Severe Level  
1961 EGR Valve Control Circuit Calculated Over Temperature - Data Valid but Above Normal Operational Range - Least Severe Level  
1962 VGT Actuator Driver Over Temperature (Calculated - Data Valid but Above Normal Operational Range - Least Severe Level  
1963 Aftertreatment Fuel Shutoff Valve 1 - Mechanical System Not Responding Properly or Out of Adjustment  
1966 Aftertreatment Exhaust Gas Temperature 1 - Data Valid but Above Normal Operational Range - Most Severe Level  
1968 Aftertreatment Exhaust Gas Temperature 2 - Data Valid but Above Normal Operational Range - Moderately Severe Level  
1969 Aftertreatment Exhaust Gas Temperature 2 - Data Valid but Above Normal Operational Range - Most Severe Level  
1972 Aftertreatment Exhaust Gas Temperature 3 - Data Valid but Above Normal Operational Range - Moderately Severe Level  
1973 Aftertreatment Exhaust Gas Temperature 3 - Data Valid but Above Normal Operational Range - Most Severe Level  
1974 Crankcase Pressure - Data Valid but Above Normal Operational Range - Least Severe Level  
1977 Aftertreatment Fuel Injector 1 Circuit - Current Below Normal, or Open Circuit  
1981 Aftertreatment Particulate Filter Differential Pressure - Data Valid but Above Normal Operational Range - Least Severe Level  
1993 Aftertreatment Particulate Filter Missing - Condition Exists

#### **Cummins ISX Codes 2000-2200**

2182 Engine Brake Actuator Driver 1 Circuit - Voltage Above Normal, or Shorted to High Source  
2183 Engine Brake Actuator Driver 1 Circuit - Voltage Below Normal, or Shorted to Low Source  
2185 Sensor Supply 4 Circuit — Voltage Above Normal, or Shorted to High Source

2186 Sensor Supply 4 Circuit - Voltage Below Normal, or Shorted to Low Source  
2195 Auxiliary Equipment Sensor Input 3 Engine Protection Critical - Special Instructions  
2198 VGT Actuator Driver Circuit - Root Cause Not Known

#### **Cummins ISX Codes 2200-2400**

2215 Fuel Pump Delivery Pressure — Data Valid but Below Normal Operational Range — Moderately Severe Level  
2216 Fuel Pump Delivery Pressure - Data Valid but Above Normal Operational Range - Moderately Severe Level  
2272 EGR Valve Position Circuit - Voltage Below Normal, or Shorted to Low Source  
2273 Exhaust Gas Recirculation Valve Delta Pressure Sensor Circuit - Voltage Above Normal, or Shorted to High Source  
2274 Exhaust Gas Recirculation Valve Delta Pressure Sensor Circuit - Voltage Below Normal, or Shorted to Low Source  
2288 Turbocharger 1 Speed - Data Valid but Above Normal Operational Range - Least Severe Level  
2311 Electronic Fuel Injection Control Valve Circuit — Condition Exists  
2312 Timing Actuator Driver Circuit - Condition Exists  
2313 Fuel Control Valve Solenoid Driver 2 Circuit - Condition Exists  
2314 Engine Timing Actuator Driver 2 Circuit Error - Condition Exists  
2321 Engine Crankshaft Speed/Position — Data Erratic, Intermittent, or Incorrect  
2322 Engine Camshaft Speed/Position Sensor — Data Erratic, Intermittent, or Incorrect  
2345 Turbocharger 1 Speed - Abnormal Rate of Change  
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  
2349 EGR Valve Control Circuit - Current Below Normal, or Open Circuit  
2351 EGR Valve Control Circuit - Voltage Below Normal, or Shorted to Low Source  
2357 EGR Valve Control Circuit - Mechanical System Not Responding Properly or Out of Adjustment  
2359 Exhaust Gas Recirculation Valve Delta Pressure - Data Valid but Above Normal Operational Range - Moderately Severe Level  
2363 Engine Brake Actuator Driver Output 2 Circuit Choice  
2363ism Engine Brake Actuator Driver Output 2 Circuit - Voltage Below Normal, or Shorted to Low Source  
2363isx Engine Brake Actuator Driver Output 2 Circuit - Voltage Below Normal, or Shorted to Low Source  
2365 Engine Brake Actuator Driver Output 3 Circuit - Voltage Below Normal, or Shorted to Low Source  
2367 Engine Brake Actuator Driver Output 2 Circuit Choice  
2367ism Engine Brake Actuator Driver Output 2 Circuit - Voltage Above Normal, or Shorted to High Source  
2367isx Engine Brake Actuator Driver Output 2 Circuit - Voltage Above Normal, or Shorted to High Source  
2368 Engine Brake Actuator Driver Output 3 Circuit - Voltage Above Normal, or Shorted to High Source  
2372 Fuel Filter Differential Pressure - Data Valid but Above Normal Operational Range - Moderately Severe Level  
2373 Exhaust Gas Pressure Sensor Circuit - Voltage Above Normal, or Shorted to High Source  
2374 Exhaust Gas Pressure Sensor Circuit - Voltage Below Normal, or Shorted to Low Source  
2375 Exhaust Gas Recirculation Temperature Sensor Circuit - Voltage Above Normal, or Shorted to High Source  
2376 Exhaust Gas Recirculation Temperature Sensor Circuit - Voltage Below Normal, or Shorted to Low Source  
2377 Fan Control Circuit — Voltage Above Normal, or Shorted to High Source  
2387 VGT Actuator Driver Circuit (Motor - Mechanical System Not Responding Properly, or Out of Adjustment

#### **Cummins ISX Codes 2400-2600**

2412 Fan Speed - Data Erratic, Intermittent, or Incorrect  
2448 Coolant Level - Data Valid but Below Normal Operational Range - Least Severe Level  
2449 VGT Actuator Controller - Out of Calibration  
2451 Turbocharger Turbine Inlet Temperature (Calculated - Data Valid but Above Normal Operational Range - Moderately Severe Level  
2551 Injector Metering Rail 2 Pressure - Data Valid but Above Normal Operational Range - Moderately Severe Level  
2552 Injector Metering Rail 1 Pressure - Data Valid but Above Normal Operational Range - Moderately Severe Level  
2554 Exhaust Gas Pressure - Data Erratic, Intermittent, or Incorrect

#### **Cummins ISX Codes 2600-2800**

2634 VGT Actuator Controller - Bad Intelligent Device or Component  
2635 VGT Actuator Driver Circuit - Condition Exists  
2636 VGT Actuator Driver Circuit - Abnormal Update Rate  
2637 Catalyst Face Plugged - Root Cause Not Known  
2638 Catalyst Efficiency - Out of Calibration  
2639 Aftertreatment Particulate Filter Differential Pressure - Data Valid but Above Normal Operational Range - Least Severe Level  
2646 Engine Coolant Temperature - Condition Exists  
2659 Engine Coolant Temperature - Condition Exists  
2728 Aftertreatment Fuel Injector 1 - Data Valid but Above Normal Operational Range - Moderately Severe Level  
2732 Aftertreatment Fuel Drain Valve Circuit - Voltage Above Normal or Shorted to High Source  
2733 Aftertreatment Fuel Drain Valve Circuit - Voltage Below Normal or Shorted to Low Source  
2738 Start Enable Device 1 Circuit (Ether Injection - Voltage Above Normal or Shorted to High Source  
2739 Start Enable Device 1 Circuit (Ether Injection - Voltage Below Normal or Shorted to Low Source  
2741 Aftertreatment Fuel Shutoff Valve 1 Swapped - Condition Exists

2742 Aftertreatment Exhaust Gas Temperature 2 - Data Valid but Below Normal Operational Range - Least Severe Level  
2743 Aftertreatment Exhaust Gas Temperature 2 - Data Valid but Below Normal Operational Range - Moderately Severe Level  
2754 Engine Particulate Filter Inlet Pressure - Data Valid but Above Normal Operational Range - Moderately Severe Level  
2764 Exhaust Gas Pressure - Data Valid but Above Normal Operational Range - Moderately Severe Level  
2774 Engine Exhaust Gas Recirculation (EGR System - Condition Exists  
2777 Particulate Trap Active Regeneration Inhibited Due to Inhibit Switch - Condition Exists  
2789 Engine Coolant Temperature - Data Valid but Below Normal Operational Range - Moderately Severe Level

#### **Cummins ISX Codes 2800-3000**

2813 EGR Valve Control - Special Instructions  
2878 Aftertreatment Fuel Drain Valve - Mechanical System Not Responding Properly or Out of Adjustment  
2879 Aftertreatment Fuel Drain Valve - Data Erratic, Intermittent, or Incorrect  
2881 Aftertreatment Fuel Pressure Sensor - Data Valid but Below Normal Operational Range - Least Severe Level  
2961 Exhaust Gas Recirculation Temperature - Data Valid but Above Normal Operational Range - Least Severe Level  
2962 Exhaust Gas Recirculation Temperature - Data Valid but Above Normal Operational Range - Moderately Severe Level  
2963 Engine Coolant Temperature — Data Valid but Above Normal Operational Range — Least Severe Level  
2964 Intake Manifold 1 Temperature — Data Valid but Above Normal Operational Range — Least Severe Level  
2973 Intake Manifold 1 Pressure - Data Erratic, Intermittent, or Incorrect

For Cummins ISX fault codes on earlier models (before 2002), use [Cummins ISX Codes \(before 2002\)](#).

## **ISB fault codes: A complete list of all Cummins fault codes for ISB diesel engines**

Having trouble finding what your ISB fault codes mean? Here is a list of all Cummins fault codes for the ISB diesel engine.

Just scroll down the list for a discription of your specific fault code.

111 Electronic Control Module ECM Microprocessor	264 VP44 Fuel Temperature Sensor Error
115 Engine Speed Sensor ESS Circuit	278 Lift Pump Circuit
122 Intake Manifold Pressure Sensor Circuit	283 Engine Speed Sensor Supply
123 Intake Manifold Pressure Sensor Circuit	284 Engine Speed Sensor Supply
131 Accelerator Position Sensor Circuit	285 J1939 Datalink Multiplexing
132 Accelerator Position Sensor Circuit	286 J1939 Datalink Multiplexing
133 Remote Throttle Position Sensor	297 OEM Pressure Sensor Circuit
134 Remote Throttle Position Sensor	298 OEM Pressure Sensor Circuit
135 Oil Pressure Sensor Circuit	349 Auxiliary Speed or Auxiliary Pressure Input Error
141 Oil Pressure Sensor/Switch Circuit Choice	352 Sensor Supply Circuit
141sn Oil Pressure Sensor Circuit	361 VP44 Fuel Valve Control High Current
141sw Oil Pressure Switch Circuit	362 VP44 Fuel Valve High Current Error
143 Oil Pressure Sensor/Switch Circuit Choice	363 VP44 Fuel Pump Control Valve Feedback Error
143sn Oil Pressure Sensor Circuit	364 Electronic Control Module ECM to Pump Communications Error
143sw Oil Pressure Switch Circuit	365 Fuel Pump Voltage Out of Range Error Low
144 Coolant Temperature Sensor Circuit	366 VP44 Fuel Pump Voltage Measurement Error
146 Coolant Temperature - Engine Protection	367 VP44 Fuel Pump Speed/Position Sensor Signal Lost
151 Coolant Temperature - Engine Protection	368 VP44 Fuel Pump Can Not Reach Commanded Timing
153 Intake Manifold Air Temperature Sensor Circuit	369 VP44 Fuel Pump To Engine Synchronization Pulse Not Recognized
154 Intake Manifold Air Temperature Sensor Circuit	372 Idle Select High/Low
155 Intake Manifold Air Temperature Sensor - Engine Protection Circuit	373 VP44 Fuel Pump Fuel Shut Off Error
191 Air Conditioner Clutch Supply Circuit	374 VP44 Fuel Pump Calibration Error
221 Ambient Air Pressure Sensor Circuit	375 Electronic Control Module ECM Fuel Calibration Corrupted
222 Ambient Air Pressure Sensor Circuit	376 VP44 Fuel Pump rpm and Fuel Error
234 Engine Overspeed Circuit	377 Fuel Pump Power Relay Stuck-On
235 Engine Coolant Level - Engine Protection	381 Intake Air Heater Relay Circuit
241 Vehicle Speed Sensor Circuit	382 Intake Air Heater Relay Circuit
242 Vehicle Speed Sensor VSS Circuit	385 Intake Air Heater Relay Circuit
243 Exhaust Brake Supply Circuit	386 Sensor Supply Circuit
245 Engine Fan Clutch Supply Circuit	387 Accelerator Position Sensor Circuit
261 Fuel Temperature Sensor Circuit	

391 VP44 Relay Coil Supply Circuit  
415 Oil Pressure Sensor/Switch Circuit Choice  
415sn Oil Pressure Sensor Circuit  
415sw Oil Pressure Switch Circuit  
418 Water-In-Fuel Sensor Circuit  
422 Coolant Level Sensor Circuit  
429 Water-In-Fuel WIF Sensor Circuit  
431 Idle Validation Switch IVS Circuit  
432 Accelerator Pedal Circuit ISS  
433 Intake Manifold Pressure Sensor Circuit  
434 Unswitched Battery Supply Circuit  
441 Unswitched Battery Supply Circuit  
442 Unswitched Battery Supply Circuit

443 Accelerator Position Sensor Circuit  
444 Remote Accelerator Supply Circuit  
488 Intake Manifold Air Temperature Sensor - Engine Protection Circuit  
489 Auxiliary Speed or Auxiliary Pressure Input Error  
515 Coolant Level Sensor Circuit  
517 VP44 Fuel Pump Valve Feedback Error  
524 Switched Droop Selection Circuit  
527 Dual-Output Driver A  
528 Alternate Switched Torque Curve Switch Circuit  
529 Dual-Output Driver B  
768 Output Device Driver Transmission Shift Modulation  
779 OEM Input - Engine Protection

These are all the ISB fault codes available. You can find more specific codes for Cummins engines in Dodge pickups by clicking the following link.

## Celect Plus Faults: A complete list of all Celect Plus codes for the Cummins Celect ECM.

Having trouble finding what your Celect Plus codes mean? Here is a list of all Cummins fault codes for the Celect Ecm.

Just scroll down the list for a description of your specific fault code.

111 Electronic Control Module ECM Microprocessor  
115 Engine Position Sensor EPS Circuit  
121 Engine Position Sensor Circuit EPS  
122 Intake Manifold Pressure Sensor Circuit  
123 Intake Manifold Pressure Sensor Circuit  
131 Accelerator Position Sensor Choice  
131iss Accelerator Position Sensor Circuit  
131ivs Accelerator Position Sensor Circuit  
131sss Accelerator Position Sensor Circuit  
132 Accelerator Position Sensor Choice  
132iss Accelerator Position Sensor Circuit  
132ivs Accelerator Position Sensor Circuit  
132sss Accelerator Position Sensor Circuit  
135 Oil Pressure Sensor Circuit  
141 Oil Pressure Sensor Circuit  
143 Oil Pressure - Engine Protection  
144 Coolant Temperature Sensor Circuit  
145 Coolant Temperature Sensor Circuit  
151 Coolant Temperature - Engine Protection  
153 Intake Manifold Temperature Sensor Circuit  
154 Intake Manifold Temperature Sensor Circuit  
155 Intake Manifold Temperature Sensor - Engine Protection  
212 Oil Temperature Sensor Circuit  
213 Oil Temperature Sensor Circuit  
214 Oil Temperature - Engine Protection  
221 Ambient Air Pressure Sensor Circuit  
222 Ambient Air Pressure Sensor Circuit  
234 Engine Overspeed  
235 Engine Coolant Level - Engine Protection  
241 Vehicle Speed Sensor Circuit  
241auto Vehicle Speed Sensor Circuit  
241ind Vehicle Speed Sensor Circuit  
242 Vehicle Speed Sensor VSS Circuit  
243 Engine Brake Supply Circuit  
245 Engine Fan Clutch Supply Circuit  
249 Ambient Air Temperature Sensor Circuit  
254 Fuel Shutoff Solenoid Supply Circuit  
255 Fuel Shutoff, Fan Clutch, Engine Brake Supply Circuit

256 Ambient Air Temperature Sensor Circuit  
267 Ambient Air Temperature Signal Incorrect  
269 Vehicle Anti-Theft Protection Activated  
289 Vehicle Accessory Shutdown Driver - Not Identifiable  
311 Injector Choice  
311n14 Injector Circuit  
311m11 Injector Circuit  
312 Injector Choice  
312n14 Injector Circuit  
312m11 Injector Circuit  
313 Injector Choice  
313n14 Injector Circuit  
313m11 Injector Circuit  
314 Injector Choice  
314n14 Injector Circuit  
314m11 Injector Circuit  
315 Injector Choice  
315n14 Injector Circuit  
315m11 Injector Circuit  
321 Injector Choice  
321n14 Injector Circuit  
321m11 Injector Circuit  
322 Injector Choice  
322n14 Injector Circuit  
322m11 Injector Circuit  
323 Injector Choice  
323n14 Injector Circuit  
323m11 Injector Circuit  
324 Injector Choice  
324n14 Injector Circuit  
324m11 Injector Circuit  
325 Injector Choice  
325n14 Injector Circuit  
325m11 Injector Circuit  
331 Injector Choice  
331n14 Injector Circuit  
331m11 Injector Circuit  
332 Injector Choice

332n14 Injector Circuit  
332m11 Injector Circuit  
343 Fault Processing Computer FPC Chip  
352 Sensor Supply Circuit  
415 Oil Pressure - Engine Protection  
422 Coolant Level Sensor Circuit  
431 Idle Validation Switch Choice  
431iss Idle Validation Switch Circuit  
431ivs Idle Validation Switch Circuit  
431sss Idle Validation Switch Circuit  
432 Accelerator Pedal Circuit Choice  
432iss Accelerator Pedal Circuit  
432ivs Accelerator Pedal Circuit

432sss Accelerator Pedal Circuit  
433 Intake Manifold Pressure Sensor Circuit  
434 Unswitched Battery Supply Circuit  
441 Unswitched Battery Supply Circuit  
442 Unswitched Battery Supply Circuit  
474 Starter Solenoid Lockout Relay Driver Circuit  
536 Autoshift Low Gear Actuator Lockout Solenoid  
537 Autoshift High Gear Actuator Shift Solenoid  
544 Top2 Transmission Circuit - Mechanical System Failure  
551 Idle Validation Switch Choice  
551iss Idle Validation Switch Circuit  
551ivs Idle Validation Switch Circuit  
551sss Idle Validation Switch Circuit

These are all the Celect Plus codes available. You can find more specific codes for Cummins engines by clicking the following link.

## Celect Codes: A complete list of all Celect fault codes for the Cummins Ecm.

Having trouble finding what your Celect fault codes mean? Here is a list of all Cummins fault codes for the Celect Ecm.

Just scroll down the list for a discription of your specific fault code.

111 Electronic Control Module (ECM Microprocessor)  
115 Engine Position Sensor (EPS Circuit  
121 Engine Position Sensor Circuit (EPS  
122 Intake Manifold Pressure Sensor Circuit  
123 Intake Manifold Pressure Sensor Circuit  
131 Accelerator Position Sensor Choice  
131iss Accelerator Position Sensor Circuit  
131ivs Accelerator Position Sensor Circuit  
131sss Accelerator Position Sensor Circuit  
132 Accelerator Position Sensor Choice  
132iss Accelerator Position Sensor Circuit  
132ivs Accelerator Position Sensor Circuit  
132sss Accelerator Position Sensor Circuit  
135 Oil Pressure Sensor Circuit  
141 Oil Pressure Sensor Circuit  
143 Oil Pressure - Engine Protection  
144 Coolant Temperature Sensor Circuit  
145 Coolant Temperature Sensor Circuit  
151 Coolant Temperature - Engine Protection  
153 Intake Manifold Temperature Sensor Circuit  
154 Intake Manifold Temperature Sensor Circuit  
155 Intake Manifold Temperature Sensor - Engine Protection  
212 Oil Temperature Sensor Circuit  
213 Oil Temperature Sensor Circuit  
214 Oil Temperature - Engine Protection  
221 Ambient Air Pressure Sensor Circuit  
222 Ambient Air Pressure Sensor Circuit  
234 Engine Overspeed  
235 Engine Coolant Level - Engine Protection  
241 Vehicle Speed Sensor Circuit  
241auto Vehicle Speed Sensor Circuit  
241ind Vehicle Speed Sensor Circuit  
242 Vehicle Speed Sensor (VSS Circuit  
243 Engine Brake Supply Circuit  
245 Engine Fan Clutch Supply Circuit  
249 Ambient Air Temperature Sensor Circuit  
254 Fuel Shutoff Solenoid Supply Circuit  
255 Fuel Shutoff, Fan Clutch, Engine Brake Supply Circuit

256 Ambient Air Temperature Sensor Circuit  
267 Ambient Air Temperature Signal Incorrect  
269 Vehicle Anti-Theft Protection Activated  
289 Vehicle Accessory Shutdown Driver - Not Identifiable  
311 Injector Choice  
311n14 Injector Circuit  
311m11 Injector Circuit  
312 Injector Choice  
312n14 Injector Circuit  
312m11 Injector Circuit  
313 Injector Choice  
313n14 Injector Circuit  
313m11 Injector Circuit  
314 Injector Choice  
314n14 Injector Circuit  
314m11 Injector Circuit  
315 Injector Choice  
315n14 Injector Circuit  
315m11 Injector Circuit  
321 Injector Choice  
321n14 Injector Circuit  
321m11 Injector Circuit  
322 Injector Choice  
322n14 Injector Circuit  
322m11 Injector Circuit  
323 Injector Choice  
323n14 Injector Circuit  
323m11 Injector Circuit  
324 Injector Choice  
324n14 Injector Circuit  
324m11 Injector Circuit  
325 Injector Choice  
325n14 Injector Circuit  
325m11 Injector Circuit  
331 Injector Choice  
331n14 Injector Circuit  
331m11 Injector Circuit  
332 Injector Choice



332n14 Injector Circuit  
332m11 Injector Circuit  
343 Fault Processing Computer (FPC Chip  
352 Sensor Supply Circuit  
415 Oil Pressure - Engine Protection  
422 Coolant Level Sensor Circuit  
431 Idle Validation Switch Choice  
431iss Idle Validation Switch Circuit  
431ivs Idle Validation Switch Circuit  
431sss Idle Validation Switch Circuit  
432 Accelerator Pedal Circuit Choice  
432iss Accelerator Pedal Circuit  
432ivs Accelerator Pedal Circuit

432sss Accelerator Pedal Circuit  
433 Intake Manifold Pressure Sensor Circuit  
434 Unswitched Battery Supply Circuit  
441 Unswitched Battery Supply Circuit  
442 Unswitched Battery Supply Circuit  
474 Starter Solenoid Lockout Relay Driver Circuit  
536 Autoshift Low Gear Actuator (Lockout Solenoid  
537 Autoshift High Gear Actuator (Shift Solenoid  
544 Top2 Transmission Circuit - Mechanical System Failure  
551 Idle Validation Switch Choice  
551iss Idle Validation Switch Circuit  
551ivs Idle Validation Switch Circuit  
551sss Idle Validation Switch Circuit

## ISM fault codes: A complete list of all Cummins fault codes for ISM diesel engines

Having trouble finding what your ISM fault codes mean? Here is a list of all Cummins fault codes for the ISM diesel engine.

Keep in mind these fault codes are for ISM engines built before October of 2002 (pre-EGR engines).

Just scroll down the list for a discription of your specific fault code.

111 Electronic Control Module (ECM Microprocessor  
115 Engine Position Sensor  
121 Engine Position Sensor  
122 Intake Manifold Pressure Sensor Circuit  
123 Intake Manifold Pressure Sensor Circuit  
131 Accelerator Pedal Position Sensor Circuit  
132 Accelerator Pedal Position Sensor Circuit  
133 Remote Accelerator Pedal or Lever Position Sensor Circuit  
134 Remote Accelerator Pedal or Lever Position Sensor Circuit  
135 Engine Oil Pressure Sensor Circuit  
141 Engine Oil Pressure Sensor Circuit  
144 Engine Coolant Temperature Sensor Circuit  
145 Engine Coolant Temperature Sensor Circuit  
147 Frequency Throttle Control  
148 Frequency Throttle Control  
153 Intake Manifold Air Temperature Sensor Circuit  
154 Intake Manifold Air Temperature Sensor Circuit  
187 Sensor Supply Voltage  
198 ICON™ Lamp  
199 ICON™ Lamp  
212 Engine Oil Temperature Sensor Circuit  
213 Oil Temperature Sensor Circuit  
216 Wet Tank Pressure Sensor Circuit  
217 Wet Tank Pressure Sensor Circuit  
218 Wet Tank Pressure Sensor Circuit  
221 Ambient Air Pressure Sensor Circuit  
222 Ambient Air Pressure Sensor Circuit  
223 Burn Valve Solenoid Fault  
227 Sensor Supply Voltage  
234 Engine Overspeed  
235 Engine Coolant Level — Engine Protection  
237 Multiple Unit Synchronization (soft coupled Marine  
241 Vehicle Speed Sensor Circuit  
242 Vehicle Speed Sensor Circuit  
245 Engine Fan Clutch Supply Circuit  
249 Ambient Air Temperature Sensor Circuit  
254 Fuel Shutoff Solenoid Supply Circuit  
255 Fuel Shutoff Solenoid Supply Circuit  
256 Ambient Air Temperature Sensor Circuit

285 SAE J1939 Data Link Multiplexing  
286 SAE J1939 Data Link Multiplexing  
293 OEM Temperature Sensor Circuit  
294 OEM Temperature Sensor Circuit  
295 Ambient Air Pressure Sensor  
297 OEM Pressure Sensor Circuit  
298 OEM Pressure Sensor Circuit  
311 Injector Circuit  
312 Injector Circuit  
313 Injector Circuit  
314 Injector Circuit  
315 Injector Circuit  
319 Real Time Clock Power Circuit  
321 Injector Circuit  
322 Injector Circuit  
323 Injector Circuit  
324 Injector Circuit  
325 Injector Circuit  
331 Injector Circuit  
332 Injector Circuit  
338 Ignition Bus Relay Circuit  
339 Ignition Bus Relay Circuit  
341 Unswitched Battery Supply Circuit  
343 Electronic Control Module (ECM  
349 Auxilliary Speed Governor Circuit  
352 Sensor Voltage Supply  
359 ICON™ Engine Auto Start Failure  
386 Sensor Voltage Supply  
387 Accelerator Pedal Voltage Supply  
388 Engine Brake Supply Circuit  
392 Engine Brake Supply Circuit  
419 Intake Manifold Pressure Sensor  
422 Coolant Level Sensor Circuit  
426 SAE J1939 Data Link Communication  
428 Water In Fuel (WIF Sensor Circuit  
429 Water In Fuel (WIF Sensor Circuit  
431 Idle Validation Switch 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 Circuit  
433 Intake Manifold Pressure Sensor Circuit  
434 Unswitched Battery Supply Circuit  
435 Oil Pressure Sensor  
441 Unswitched Battery Supply Circuit  
442 Unswitched Battery Supply Circuit  
443 Accelerator Pedal Voltage Supply  
465 Wastegate Actuator No. 1 Circuit  
466 Wastegate Actuator No. 1 Circuit  
469 ICON™ Cab Thermostat Circuit  
472 Crankcase Oil Level Sensor Circuit  
474 Starter Solenoid Lockout Relay Driver Circuit  
475 Electronic Air Compressor Governor Circuit  
476 Electronic Air Compressor Governor Circuit  
489 Auxilliary Speed Input Error  
491 Wastegate Actuator No. 2 Circuit  
492 Wastegate Actuator No. 2 Circuit  
527 Switched Output A Error  
528 Switched Output B Error

529 Switched Output C Error  
536 Autoshift Low Gear Actuator (Lockout Solenoid  
537 Autoshift High Gear Actuator (Lockout Solenoid  
538 Autoshift Neutral Actuator  
541 ICON™ Starter Relay Input Circuit  
544 Top 2 Transmission Circuit — Mechanical System Failure  
551 Idle Validation Switch Choice  
551liss Idle Validation Switch Circuit - Integrated Switch and Sensor Type  
551lvs Idle Validation Switch Circuit - Non-Integrated Switch and Sensor Type  
551sss Idle Validation Switch Circuit - Solid State Switch and Sensor Type  
581 Fuel Inlet Restriction Sensor Circuit  
582 Fuel Inlet Restriction Sensor Circuit  
583 Fuel Inlet Restriction Sensor Circuit  
588 ICON™ Starter Relay Input Circuit  
589 Engine Start Alarm Circuit  
596 Voltage Monitor — High Voltage  
597 Voltage Monitor — Low Voltage  
598 Battery Voltage Monitor — Very Low Voltage  
2291 Vehicle Speed Sensor Circuit

These are all the ISM fault codes available. You can find more specific codes for Cummins engines (including ISM fault codes for engines built with EGR systems after 2002) by clicking the following link.

## ISB fault codes: A complete list of all ISM codes for Cummins diesel engines with EGR Systems

Having trouble finding what your ISM codes mean? Here is a list of all Cummins fault codes for the ISM engine.

Keep in mind these ISM codes apply only to the CM875 Cummins ECM, engine built after October of 2002 with the EGR system.

Just scroll down the list for a discription of your specific code.

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  
431liss 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  
551liss 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

Although this list of ISM codes can look overwhelming, with the correct tools and helpful information Cummins fault codes are very user friendly. Always make sure your ISM codes are inactive and cleared after repairs are completed.

These are all the ISM codes available. You can find more specific fault codes for Cummins engines (including ISM codes for engine built before 2002) by clicking the following link.

## **Cummins ISL & ISC Codes:**

**A complete list of all fault codes for Cummins engines with the HPCR fuel system.**

Here are all the ISL and ISC codes available for the Cummins ECM. These Cummins trouble codes pertain to both models equipped with the [High Pressure Common Rail \(HPCR\) fuel system](#).

#### **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  
431lss 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  
551lss 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

#### **ISL & ISC Codes 900-1200**

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  
2385cl 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

These are all the ISL and ISC codes available. For earlier ISL and ISC codes, and for other Cummins engine fault codes, use the links below.

These ISL & ISC codes are for quick reference to find out what your fault means. ISL & ISC codes can help pinpoint the problem and save hours of frustration.

For Cummins ISL & ISC codes on earlier models (2002 and before) use [ISC and ISL codes, CAPS fuel system.](#)

## **Cummins ISL & ISC Fault Codes:**

**A complete list of all fault codes for Cummins engines with CAPS fuel system.**

Here are all the ISL and ISC fault codes available for the Cummins ECM. These Cummins trouble codes pertain to both models equipped with the [CAPS fuel system.](#)

#### **ISC Fault Codes # 111-500**

111 Electronic Control Module (ECM Microprocessor	131 Accelerator Position Sensor Circuit
115 Engine Speed Sensor (ESS Circuit	132 Accelerator Position Sensor Circuit
121 Engine Position Sensor Circuit	133 Remote Throttle Position Sensor
122 Intake Manifold Pressure Sensor Circuit	134 Remote Throttle Position Sensor
123 Intake Manifold Pressure Sensor Circuit	135 Oil Pressure Sensor Circuit
124 Intake Manifold Pressure - Engine Protection	141 Oil Pressure Sensor/Switch Circuit Choice

141sn Oil Pressure Sensor Circuit  
 141sw Oil Pressure Switch Circuit  
 143 Oil Pressure Sensor/Switch Circuit Choice  
 143sn Oil Pressure Sensor Circuit  
 143sw Oil Pressure Switch Circuit  
 144 Coolant Temperature Sensor Circuit  
 145 Coolant Temperature Sensor Circuit  
 146 Coolant Temperature - Engine Protection  
 147 Frequency Throttle Circuit  
 148 Frequency Throttle Circuit  
 151 Coolant Temperature - Engine Protection  
 153 Intake Manifold Air Temperature Sensor Circuit  
 154 Intake Manifold Air Temperature Sensor Circuit  
 184 OEM Pressure - Engine Protection  
 191 Air Conditioner Clutch Supply Circuit  
 221 Ambient Air Pressure Sensor Circuit  
 222 Ambient Air Pressure Sensor Circuit  
 234 Engine Overspeed Circuit  
 235 Engine Coolant Level - Engine Protection  
 241 Vehicle Speed Sensor Circuit  
 242 Vehicle Speed Sensor (VSS Circuit  
 243 Engine Brake Supply Choice  
 243isc Engine Brake Supply Circuit  
 243isl Engine Brake Supply Circuit  
 245 Engine Fan Clutch Supply Circuit  
 263 Fuel Temperature Sensor Circuit  
 265 Fuel Temperature Sensor Circuit  
 268 Fuel Pressure Sensor Circuit  
 271 Front Pumping Valve Circuit  
 272 Front Pumping Valve Circuit  
 273 Rear Pumping Valve Circuit  
 274 Rear Pumping Valve Circuit  
 275 Front Pumping Element  
 276 Injection Control Valve Stator Circuit  
 277 Injection Control Valve Stator Circuit  
 278 Lift Pump Circuit  
 279 Injection Control Valve Stator Circuit  
 281 Pumping Element  
 282 Pumping Element  
 283 Engine Speed Sensor  
 284 Engine Speed Sensor  
 285 J1939 Datalink Multiplexing  
 286 J1939 Datalink Multiplexing  
 296 OEM Pressure - Engine Protection  
 297 OEM Pressure Sensor Circuit

298 OEM Pressure Sensor Circuit  
 328 Rear Pumping Element  
 329 Fuel Injection Pump  
 349 Auxiliary Speed or Auxiliary Pressure Input Error  
 352 Sensor Supply Circuit  
 381 Intake Air Heater Relay Circuit  
 382 Intake Air Heater Relay Circuit  
 385 Remote Accelerator Control Circuit  
 387 Accelerator Position Sensor Circuit  
 415 Oil Pressure Sensor/Switch Circuit Choice  
 415sn Oil Pressure Sensor Circuit  
 415sw Oil Pressure Switch Circuit  
 418 Water-In-Fuel (WIF Sensor Circuit  
 422 Coolant Level Sensor Circuit  
 429 Water-In-Fuel (WIF Sensor Circuit  
 431 Idle Validation Switch (IVS Circuit  
 432 Accelerator Pedal Circuit (ISS  
 433 Intake Manifold Pressure Sensor Circuit  
 434 Unswitched Battery Supply Circuit  
 441 Unswitched Battery Supply Circuit  
 442 Unswitched Battery Supply Circuit  
 443 Accelerator Position Sensor Circuit  
 444 Remote Accelerator Control Circuit  
 449 Fuel Pressure Sensor Circuit  
 451 Fuel Pressure Sensor Circuit  
 452 Fuel Pressure Sensor Circuit  
 456 Fuel Pressure Sensor Circuit  
 488 Intake Manifold Air Temperature Sensor - Engine  
 Protection Circuit  
 489 Auxiliary Speed or Auxiliary Pressure Input Error  
 493 Injection Control Valve Identifier Circuit  
 497 Primary/Secondary ECM Identification Error  
**ISC Fault Codes #515-2195**  
 515 Coolant Level Sensor Circuit  
 516 Coolant Level Sensor Circuit  
 524 Switched Droop Selection Circuit  
 527 Dual Output Driver A  
 528 Alternate (Switched Torque Curve Switch Circuit  
 529 Dual Output Driver B  
 539 Transient Suppressor Circuit  
 768 Output Device Driver (Transmission Shift Modulator  
 779 OEM Input - Engine Protection  
 2194 Multiple Unit Synchronization Switch Error  
 2195 OEM Switch - Engine Protection

For Cummins trouble codes on later ISC and ISL models (2003 & up), use [HPCR Fault Codes](#)

## ISB fault codes: A complete list of all Dodge Cummins codes for ISB diesel engines

Having trouble finding what your Dodge Cummins codes mean? Here is a list of all Cummins fault codes for the Dodge Cummins diesel engine.

Just scroll down the list for a description of your specific fault code.

111 Electronic Control Module ECM Microprocessor  
 115 Engine Speed Sensor ESS Circuit  
 121 Engine Position Sensor EPS Circuit  
 122 Intake Manifold Pressure Sensor Circuit  
 123 Intake Manifold Pressure Sensor Circuit

124 Intake Manifold Pressure - Engine Protection  
 131 Accelerator Position Sensor Circuit  
 132 Accelerator Position Sensor Circuit  
 135 Oil Pressure Sensor Circuit  
 141 Oil Pressure Sensor/Switch Circuit Choice

141sn Oil Pressure Sensor Circuit	373 VP44 Fuel Pump Fuel Shut Off Error
141sw Oil Pressure Switch Circuit	374 VP44 Fuel Pump Calibration Error
144 Coolant Temperature Sensor Circuit	375 Electronic Control Module ECM Fuel Calibration Corrupted
146 Coolant Temperature - Engine Protection	376 VP44 Fuel Pump rpm and Fuel Error
153 Intake Manifold Air Temperature Sensor Circuit	377 Fuel Pump Power Relay Stuck-On
154 Intake Manifold Air Temperature Sensor Circuit	381 Intake Air Heater Relay Circuit
186 Wait-to-Start Lamp Circuit	382 Intake Air Heater Relay Circuit
211 Vehicle Electronic Control Module	383 Intake Air Heater Circuit
234 Engine Overspeed Circuit	386 Sensor Supply Circuit
261 Fuel Temperature Sensor Circuit	387 Accelerator Position Sensor Circuit
264 VP44 Fuel Temperature Sensor Error	391 VP44 Relay Coil Supply Circuit
278 Lift Pump Circuit	418 Water-In-Fuel Sensor Circuit
283 Engine Speed Sensor Supply	429 Water-In-Fuel WIF Sensor Circuit
284 Engine Speed Sensor Supply	431 Idle Validation Switch IVS Circuit
291 Datalink Circuit	432 Accelerator Pedal Circuit ISS
334 Coolant Temperature Sensor Circuit	433 Intake Manifold Pressure Sensor Circuit
352 Sensor Supply Circuit	441 Unswitched Battery Supply Circuit
362 VP44 Fuel Valve High Current Error	442 Unswitched Battery Supply Circuit
363 VP44 Fuel Pump Control Valve Feedback Error	443 Accelerator Position Sensor Circuit
364 Electronic Control Module ECM to Pump Communications Error	517 VP44 Fuel Pump Valve Feedback Error
365 Fuel Pump Voltage Out of Range Error Low	613 Engine Misfire Detection
366 VP44 Fuel Pump Voltage Measurement Error	621 Engine Misfire Detection
367 VP44 Fuel Pump Speed/Position Sensor Signal Lost	622 Engine Misfire Detection
368 VP44 Fuel Pump Can Not Reach Commanded Timing	623 Engine Misfire Detection
369 VP44 Fuel Pump To Engine Synchronization Pulse Not Recognized	624 Engine Misfire Detection
372 Idle Select High/Low	625 Engine Misfire Detection
	626 Engine Misfire Detection

These are all the Dodge Cummins codes available. For more Cummins fault codes list for different engines, choose your engine from [Cummins Codes by Engine Model](#).