

# Cummins Fault Codes for Engine Control Units

Fault code 111

**Engine:**

ISF 2.8, ISF 3.8, ISB, QSB, QSC, ISL, QSL, ISM, QSM, ISX, QSX

**Error:**

Internal failure of the ESM module.

**Decryption:**

This fault code may only occur if there is a problem inside the module ESM. The ESM module cannot be repaired.

Fault code 115

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISDe, QSB 3.3

**Error:**

Signal loss is the primary and backup/speed sensor crankshaft position.

**Decryption:**

ECM module detects that signal inputs crankshaft position sensor camshaft position and connected in reverse order.

Fault code 115

**Engine:**

Qsx

**Error:**

The engine speed signal is not detected from the camshaft position sensor.

**Decryption:**

Possible causes for this fault code-camshaft position sensor damage, breakage or short circuit in the circuit or fault in the power supply circuit.

Fault code 121

**Engine:**

Qsx

**Error:**

The engine speed signal is not detected from the crankshaft position sensor.

**Decryption:**

Possible causes for this fault code-crankshaft position sensor damage, breakage or short circuit in the circuit or fault in the power supply circuit.

Fault code 122

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

The circuit intake manifold pressure sensor-voltage high or short-circuited.

**Decryption:**

ECM module determines that the signal voltage pressure sensor in the intake manifold exceeds the value specified in the calibration, for more than 1 second.

Fault code 123

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

The circuit intake manifold pressure sensor-voltage low or shorted.

**Decryption:**

ECM module detects that the voltage signal pressure sensor in the intake manifold is less than the value specified in the calibration, for more than 1 second.

Fault code 124

**Engine:**

ISB

**Error:**

Circuit pressure sensor in the intake manifold-precise data, but exceed the norm.

**Decryption:**

This fault code becomes active, when intake manifold pressure exceeds the maximum allowed value for a given power rating of the engine.

Fault code 124

**Engine:**

QSB 3.3

**Error:**

Intake manifold pressure exceeds the maximum allowed value for a given power rating of the engine.

**Decryption:**

This fault code becomes active, when intake manifold pressure exceeds the maximum allowed value for a given power rating of the engine.

Fault code 131

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In the circuit of the sensor lever or pedal Accelerator high voltage detected.

**Decryption:**

ECM module detects that the voltage accelerator pedal position sensor signal exceeds the value set in the calibration, for more than 1 second.

Fault code 132

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In the circuit of the sensor lever or pedal Accelerator detected low voltage.

**Decryption:**

ECM module detects that the voltage accelerator pedal signal out of range (below normal).

Fault code 133

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In the signal chain sensor pedal or accelerator lever remote control high voltage detected.

**Decryption:**

ECM module detects that the voltage accelerator pedal signal remote control is out of range (above normal).

Fault code 134

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

The pedal sensor circuit or the accelerator lever remote control low voltage is detected.

**Decryption:**

ECM module detects that the voltage accelerator pedal signal remote control is out of range (below normal).

Fault code 135

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

The oil pressure sensor circuit high voltage signal is detected.

**Decryption:**

ECM module determines that the oil pressure sensor signal voltage is greater than 4.75 volts DC for more than 16 seconds.

Fault code 141

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

The oil pressure sensor circuit low voltage detected signal or open circuit.

**Decryption:**

ECM module determines that the oil pressure sensor signal voltage less than 0.25 v DC for more than 16 seconds.

Fault code 144

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In the chain of coolant temperature sensor detected high voltage signal or open circuit.

**Decryption:**

ECM module determines that the coolant temperature sensor signal exceeds 5.13 in DC for more than 1 second.

Fault code 145

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In the chain of coolant temperature sensor low voltage signal is detected.

**Decryption:**

ECM module detects that the voltage engine coolant temperature signal out of range (below normal).

Fault code 146

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Coolant temperature above warning signal issuing limit system for engine protection.

**Decryption:**

ECM module determines that the coolant temperature exceeds the limit specified in the calibration.

Fault code 151

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Coolant temperature sensor signal indicates that it is above the critical limit system for engine protection.

**Decryption:**

ECM module determines that the coolant temperature exceeds the limit for engine protection.

Fault code 153

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In the circuit of the temperature sensor in the intake manifold found high voltage signal.

**Decryption:**

ECM module detects that the voltage signal of the temperature sensor in the intake manifold exceeds the value specified in the calibration, for more than 1 second.

Fault code 154

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In the circuit of the temperature sensor in the intake manifold detected low voltage signal.

**Decryption:**

ECM module detects that the voltage of the intake manifold temperature signal out of range (below normal).

Fault code 155

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

The signal of the temperature sensor in the intake manifold, indicates that it is above the critical limit system for engine protection.

**Decryption:**

ECM module determines that the intake manifold air temperature exceeding 132° c during 5 seconds.

Fault code 175

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM

**Error:**

Chain drive with electronically controlled throttle valve voltage high or short circuit in the high voltage circuit.

**Decryption:**

ECM module detects the presence of a short circuit in the power supply circuit or open circuit in motor circuit with throttle valve at the inlet.

Fault code 176

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM

**Error:**

Chain drive with electronically controlled throttle valve voltage too low or short circuit on low tension circuit.

**Decryption:**

ECM module detects a short circuit on the "weight" motor drive circuit with throttle valve at the inlet.

Fault code 177

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM

**Error:**

Throttle with electronic controls-mechanical system response does not match the rule or regulation is violated.

**Decryption:**

ECM module detects that the response of mechanical drive system electronically controlled throttle valve does not conform to the norm.

Fault code 187

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Sensor power circuit voltage is below normal or short circuit on low tension circuit.

**Decryption:**

ECM module detects that the sensor circuit voltage is less than the value specified in the calibration, for more than 1 second.

Fault code 191

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM

**Error:**

Air conditioner clutch signal switched on indicates a short-circuit on "mass".

**Decryption:**

ECM module determines that the air conditioner clutch signal indicates a short circuit

Fault code 195

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In the circuit of sensor coolant level high voltage signal is detected.

**Decryption:**

ECM module detects that the signal voltage coolant level outside the valid range (above normal).

Fault code 196

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In the circuit of sensor coolant level low voltage signal is detected.

**Decryption:**

ECM module detects that the signal voltage coolant level outside the valid range (below normal).

Fault code 197

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Detected low coolant level.

**Decryption:**

ECM module determines that the coolant level is below normal.

Fault code 212

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Engine oil temperature sensor circuit-high voltage or a short circuit in the high voltage circuit.

**Decryption:**

ECM module determines that the oil temperature sensor signal voltage exceeds the value specified in the calibration, for more than 1 second.

Fault code 213

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Engine oil temperature sensor circuit-low voltage or a short circuit on low tension circuit.

**Decryption:**

ECM module determines that the oil temperature sensor signal voltage is lower than the values set in the calibration, for more than 1 second.

Fault code 214

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Engine oil temperature data are accurate, but above normal, the highest severity level.

**Decryption:**

ECM module determines that the oil temperature exceeds 122° c during 5 seconds.

Fault code 221

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In atmospheric pressure sensor circuit high voltage signal is detected.

**Decryption:**

ECM module detects that the voltage signal of the atmospheric pressure outside the valid range (above normal).

Fault code 222

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In atmospheric pressure sensor circuit low voltage signal is detected.

**Decryption:**

ECM module detects that the voltage signal of the atmospheric pressure outside the valid range (below normal).

Fault code 227

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Power circuit voltage sensors above the norm or a short circuit on the high voltage circuit.

**Decryption:**

ECM module detects that the sensor circuit voltage exceeds the value specified in the calibration, for more than 1 second.

Fault code 234

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Engine speed signal indicates that this parameter exceeds the limit of the engine protection system.

**Decryption:**

ECM module detects that the engine speed exceeds the limit specified in the calibration.

Fault code 238

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In the food chain speed sensor engine +5 in low voltage is detected.

**Decryption:**

ECM module detects that the sensor voltage out of range (below normal).

Fault code 239

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In the food chain speed sensor engine 5 in high voltage detected.

**Decryption:**

ECM module detects that the sensor voltage out of range (above normal).

Fault code 241

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

ECM module is not receiving the signal speed of the vehicle, or the signal changes randomly.

**Decryption:**

ECM module determines vehicle speed signal loss when other engine conditions indicate that the vehicle is in motion.

Fault code 242

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In the circuit of sensor coolant level high voltage signal is detected.

**Decryption:**

ECM module determines that the signal voltage sensor coolant level exceeds 5.124 DC for more than 20 seconds.

Fault code 245

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**



Fan control circuit low voltage or a short circuit on low tension circuit. In the circuit of fan control when submitting commands to enable detected low voltage signal.

**Decryption:**

ECM module detects that level PWM fan control signal is not equal to the supply voltage of the system, when the signal is set to enable.

Fault code 249

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In ambient air temperature sensor circuit found high voltage signal.

**Decryption:**

ECM module detects that the signal voltage ambient temperature out of range (above normal).

Fault code 252

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM

**Error:**

Engine oil level-chaotic or incorrect data.

**Decryption:**

ECM module determines that the oil level sensor goes chaotic signal.

Fault code 253

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM

**Error:**

Engine oil level-the exact data, but below the highest severity level

**Decryption:**

ECM module receives the signal from the oil level sensor-detected very low oil level.

Fault code 254

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Fuel cut-off valve-circuit voltage low or short circuit on low tension circuit.

**Decryption:**

ECM module determines that the fuel cut-off valve circuit low voltage is detected.

Fault code 255

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Fuel cut-off valve-circuit voltage above the norm or a short circuit on the high voltage circuit.

**Decryption:**

ECM module determines that the fuel cut-off valve circuit open circuit or short circuit is detected in the power supply.

Fault code 256

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISL, ISLe, ISDe, ISM

**Error:**

Ambient air temperature sensor circuit 1-voltage too low or short circuit on low tension circuit.

**Decryption:**

ECM module detects that the sensor signal voltage ambient temperature less than 0.12 in DC for more than 1 second.

Fault code 256

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In ambient air temperature sensor circuit detected low voltage.

**Decryption:**

ECM module detects that the signal voltage ambient temperature out of range (below normal).

Fault code 257

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISL, ISLe, ISDe, ISM

**Error:**

Fuel cut-off valve-mechanical system response does not match the rule or regulation is violated.

**Decryption:**

ECM module defines what happened mechanical jamming fuel cut-off valve in open position, or there is a leak.

Fault code 269

**Engine:**

ISF, ISF 2.8 3.8

**Error:**

Indicator password check anti-theft system is chaotic or incorrect data. Attempt to start the engine without the permission of the anti-theft system.

**Decryption:**

This fault code is active, if the protective system has been disabled.

Fault code 271

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In the Executive chain fuel system valve detected low voltage signal.

**Decryption:**

In the Executive chain valve fuel system not detected signal with pulse-width modulation with a level equal to the voltage of the supply system when this signal is on.

Fault code 272

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In the Executive chain fuel system valve detected high voltage signal or open circuit.

**Decryption:**

ECM module detects the presence of a short circuit in the power supply circuit, short circuit contacts or breakage in the Executive chain valve fuel pump.

Fault code 281

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Feed module fuel pump-mechanical system response does not match the rule or regulation is violated

**Decryption:**

This fault code goes into the active state, when the fuel pump discharge pressure mismatch is detected between two high pressure plungers.

Fault code 285

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

ECM module is unable to retrieve messages from the device connected to the multiplex network, timely or not getting it at all.

**Decryption:**

ECM module is unable to retrieve messages on the multiplex network from the connected device to it. ECM module defines presence of breakage or short circuit in wiring harness J1939 communication channel.

Fault code 286

**Engine:**

ISF, ISF 2.8 3.8

**Error:**

ECM module has received only a fraction of the expected information from the network device.

**Decryption:**

ECM module receives an invalid message channel of communication of more multiplex J1939 1 seconds.

Fault code 287

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Electronic vehicle control module (VECU), included in the complete equipment, discovered faulty accelerator.

**Decryption:**

ECM module is unable to retrieve messages on the multiplex network from the connected device to it.

Fault code 288

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Electronic vehicle control module (VECU) discovered the faulty Accelerator remote control.

**Decryption:**

ECM module on J1939 communication channel has received a communication from the block VECU (complete equipment), indicating that the signal circuit throttle remote control or remote control switch has shorted out on the chain of high or low voltage.

Fault code 291

**Engine:**

ISF, ISF 2.8 3.8

**Error:**

A failure of a secure communications channel (channel of communication with the complete equipment/vehicle)-temp update data does not conform to the norm. Anti-theft system will not work properly. The engine may not start.

**Decryption:**

ECM module cannot communicate with the anti-theft system on J1939 communication channel

Fault code 292

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Auxiliary input temperature sensor-specific instructions.

**Decryption:**

Verify the calibration of the electronic control module (ECM).

Fault code 293

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In the chain of support original equipment temperature sensor detected high voltage signal or open circuit.

**Decryption:**

Verify the calibration of the electronic control module (ECM).

Fault code 294

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In the chain of support original equipment temperature sensor low voltage signal is detected.

**Decryption:**

Verify the calibration of the electronic control module (ECM).

Fault code 295

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Atmospheric pressure-chaotic or incorrect data.

**Decryption:**

Chaotic ambient air pressure sensor signal when you first turn the actuator switch in the on position.

Fault code 296

**Engine:**

QSB 3.3

**Error:**

Auxiliary input pressure sensor-specific instructions

**Decryption:**

Verify the calibration of the electronic control module (ECM).

Fault code 297

**Engine:**

QSB 3.3

**Error:**

In the chain of original equipment pressure sensor detected high voltage signal.

**Decryption:**

Verify the calibration of the electronic control module (ECM).

Fault code 298

**Engine:**

QSC 3.3

**Error:**

In the chain of support original equipment pressure sensor detected low voltage signal or open circuit.

**Decryption:**

Verify the calibration of the electronic control module (ECM).

Fault code 311

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Circuit relay solenoid valve injector cylinder 1-current above normal or close to "mass". Current detected 1 nozzle off voltage.

**Decryption:**

ECM module determines that the chain of injectors has a short circuit in the power supply circuit, short circuit plus battery or low resistance atomizer electromagnet.

Fault code 312

**Engine:**

Isb ISC ISD, ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Circuit relay solenoid valve injector cylinder 5-current above normal or close to "mass". Current detected 5 nozzle off voltage.

**Decryption:**

ECM module determines that the chain of injectors has a short circuit in the power supply circuit, short circuit plus battery or low resistance atomizer electromagnet.

Fault code 313

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Circuit relay solenoid valve injector cylinder 3-current above normal or close to "mass". Current detected 3 nozzle off voltage.

**Decryption:**

ECM module determines that the chain of injectors has a short circuit in the power supply circuit, short circuit plus battery or low resistance atomizer electromagnet.

Fault code 314

**Engine:**

ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

A chain of relay nozzle solenoid valve 6 cylinder-current above normal or close to "mass". Current detected 6 nozzle off voltage.

**Decryption:**

ECM module determines that the chain of injectors has a short circuit in the power supply circuit, short circuit plus battery or low resistance atomizer electromagnet.

Fault code 315

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Circuit relay solenoid valve injector cylinder 2-current above normal or close to "mass". Current detected 2 nozzle off voltage.

**Decryption:**

ECM module determines that the chain of injectors has a short circuit in the power supply circuit, short circuit plus battery or low resistance atomizer electromagnet.

Fault code 319

**Engine:**

ISF, ISF 2.8 3.8

**Error:**

RTC power interruption-chaotic or incorrect data. Dropouts power real-time clock.

**Decryption:**

ECM module determines that the data real time lost due to power outage.  
Trouble code 321

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Circuit relay solenoid valve injector cylinder 4-current above normal or close to "mass". Current detected 4 nozzle off voltage.

**Decryption:**

ECM module determines that the chain of injectors has a short circuit in the power supply circuit, short circuit plus battery or low resistance atomizer electromagnet.  
Fault code 322

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In 1 nozzle detected current when voltage is switched off.

**Decryption:**

ECM module encountered an internal failure in the chain of injectors (nozzles). If it appears that the current ECM module above normal stops through faulty injection nozzle (jets).  
Fault code 324

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In 3 nozzle detected current when voltage is switched off.

**Decryption:**

ECM module encountered an internal failure in the chain of injectors (nozzles). If it appears that the current ECM module above normal stops through faulty injection nozzle (jets).  
Fault code 331

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In 2 nozzle detected current when voltage is switched off.

**Decryption:**

ECM module encountered an internal failure in the chain of injectors (nozzles). If it appears that the current ECM module above normal stops through faulty injection nozzle (jets).  
Fault code 332

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In 4 nozzle detected current when voltage is switched off.

**Decryption:**

ECM module encountered an internal failure in the chain of injectors (nozzles). If it appears that the current ECM module above normal stops through faulty injection nozzle (jets).

Fault code 323

**Engine:**

ISB, ISC ISL, ISLe, ISDe

**Error:**

In 5 nozzle detected current when voltage is switched off.

**Decryption:**

ECM module encountered an internal failure in the chain of injectors (nozzles). If it appears that the current ECM module above normal stops through faulty injection nozzle (jets).

Fault code 325

**Engine:**

ISB, ISC ISL, ISLe, ISDe

**Error:**

In 6 nozzle detected current when voltage is switched off.

**Decryption:**

ECM module encountered an internal failure in the chain of injectors (nozzles). If it appears that the current ECM module above normal stops through faulty injection nozzle (jets).

Fault code 334

**Engine:**

QSB 3.3

**Error:**

Coolant temperature signal does not change depending on the operating conditions of the engine.

**Decryption:**

ECM module detects that the voltage engine coolant temperature signal out of range.

Fault code 338

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Auxiliary circuit relay stops the engine during long idle-voltage above the norm or a short circuit in the high voltage circuit.

**Decryption:**

ECM module determines that the chains support the relay stops the engine during prolonged idle/ignition found open circuit or short circuit.

Fault code 339

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**



Auxiliary circuit relay stops the engine when idle long-voltage too low or short circuit on low tension circuit.

**Decryption:**

In the chain of support relay stops the engine during prolonged idle/ignition low voltage was detected when the relay signaled the inclusion.

Fault code 343

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Domestic refuse warning module ECM-malfunction of the logical device. Power supply failure detected ECM module.

**Decryption:**

This fault code is logged when diagnostic ECM module internal procedure defines an internal error reading or writing in the module.

Fault code 346

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Calibration software module ECM-malfunction of the logical device.

**Decryption:**

ECM module detects an invalid configuration of contact sensors specified by using custom parameters.

Fault code 351

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Food chain nozzles-Faulty logical device. Measured voltage the ECM module inclusion nozzles is low.

**Decryption:**

ECM module determines the voltage at injector circuit less than a specified value.

Fault code 352

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Food chain nozzles-Faulty logical device. Measured voltage the ECM module inclusion nozzles is low.

**Decryption:**

ECM module determines the voltage at injector circuit less than a specified value.

Fault code 356

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Mass air flow sensor circuit inlet voltage above the norm or a short circuit in the high voltage circuit.

**Decryption:**

ECM module determines that the mass air flow sensor signal exceeds the maximum limit.  
Fault code 357

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Mass air flow sensor circuit inlet-low voltage or a short circuit on low tension circuit.

**Decryption:**

ECM module determines that the mass air flow sensor signal is less than the allowable minimum limit.  
Fault code 358

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Mass air flow sensor circuit inlet-chaotic or incorrect data.

**Decryption:**

Mass air flow sensor signal does not comply with the conditions of engine operation.  
Fault code 386

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In the sensor circuit high voltage detected 1.

**Decryption:**

ECM module detects that the sensor circuit voltage high  
Fault code 415

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Oil pressure signal indicates that it is below a critical limit motor protection system

**Decryption:**

ECM module determines that the oil pressure sensor signal voltage is less than the minimum working limit.  
Fault code 418

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

The availability of water in fuel signal data accurate, but above the norm-the lowest severity level. Detected the presence of water in the fuel filter.

**Decryption:**

ECM module determines that the level of water in the fuel filter above the level sensor.

Fault code 425

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Engine oil temperature-chaotic or incorrect data

**Decryption:**

ECM module determines that the engine oil temperature sensor above or below other readings of the sensors installed on the engine, the engine after a long stay in the off position.

Fault code 427

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Loss of communication between ECM module and another device via SAE J1939.

**Decryption:**

The ESM module defines presence of breakage or short circuit in wiring harness J1939 communication channel.

Fault code 428

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Sensor circuit availability of water in the fuel-supply voltage above the norm or a short circuit on the high voltage circuit.

**Decryption:**

ECM module detects that the sensor signal circuit voltage exceeds 4.95 VDC for 1 second.

Fault code 429

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Sensor circuit availability of water in the fuel-supply voltage too low or short circuit on low tension circuit.

**Decryption:**

ECM module detects that the sensor signal circuit voltage less than 0.05 v DC during 1 second.

Fault code 431

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Sensor circuit check idling-chaotic or incorrect data.

**Decryption:**

ECM module detects the simultaneous appearance of voltage on the contacts presence and absence of idle sensor idle scan. Voltage must only appear in one of the circuits.

Fault code 432

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Chain check idling speed lever pedal or accelerator-violation of calibration.

**Decryption:**

ECM module determines that the accelerator pedal position sensor and sensor signal check the idling speed does not match.

Fault code 435

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

The pressure in the main thoroughfare of lubrication systems-chaotic or incorrect data

**Decryption:**

ECM module has determined that the oil pressure is higher or lower than the testimony of other sensors of absolute pressure

Fault code 436

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

The circuit of the temperature sensor in the intake manifold-chaotic or incorrect data.

**Decryption:**

ECM module detects that the temperature sensor in the intake manifold is higher or lower than the testimony of other sensors installed on the engine, the engine after a long stay in the off position.

Fault code 441

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Battery voltage-the exact data, but below the norm. ECM module supply voltage below the minimum level.

**Decryption:**

ECM module determines that the primary voltage of the battery is less than 6 VDC.

Fault code 442

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Battery voltage-the exact data, but above the norm. ECM module supply voltage above the maximum level.

**Decryption:**

ECM module determines that the primary voltage of the battery exceeds 36 VDC.

Fault code 449

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Pressure sensor circuit in general high-pressure fuel line-precise data, but exceed the norm.

**Decryption:**

ECM module found that pressure in general high-pressure fuel pipe above the fuel pressure reducing valve.

Fault code 451

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In the circuit pressure sensor high pressure fuel pipe generally found high voltage signal.

**Decryption:**

ECM module determines that the pressure sensor signal voltage fuel supply less than 0.20 in DC for more than 1 second.

Fault code 452

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In the circuit pressure sensor high pressure fuel pipe generally found low voltage signal.

**Decryption:**

ECM module determines that the pressure sensor signal voltage fuel supply exceeds 4.80 in DC for more than 1 second.

Fault code 465

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Bypass valve control circuit voltage above the turbocharger or a short circuit in the high voltage circuit.

**Decryption:**

ECM module determines that the bypass valve control circuit high voltage detected turbocharger.

Fault code 466

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Bypass valve control circuit voltage below the turbocharger or a short circuit on low tension circuit.

**Decryption:**

ECM module determines that the bypass valve control circuit low voltage detected turbocharger.

Fault code 471

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Engine oil level too low

**Decryption:**

Oil level sensor detected low oil level.

Fault code 477

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Voltage to the controller for the liquid injection systems for diesel engines are lower voltage of the electrical system.

**Decryption:**

Liquid injection controller for exhaust of diesel engine detects that the voltage of the battery is below threshold.

Fault code 478

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Voltage to the controller for the liquid injection systems for diesel engines, exceeds the voltage of the electrical system.

**Decryption:**

Liquid injection controller for exhaust of diesel engine detects that the voltage from the battery exceeds the threshold.

Fault code 488

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

The signal of the temperature sensor in the intake manifold determines that it is above the limit of the engine protection warning.

**Decryption:**

ECM module detects that the voltage signal of the temperature sensor in the intake manifold exceeds calibrated limit ECM module

Fault code 491

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Bypass valve control circuit voltage above the turbocharger or a short circuit in the high voltage circuit.

**Decryption:**

ECM module determines that the bypass valve control circuit high voltage detected turbocharger.

Fault code 492

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Bypass valve control circuit voltage below the turbocharger or a short circuit on low tension circuit.

**Decryption:**

ECM module determines that the bypass valve control circuit low voltage detected turbocharger.

Fault code 498

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Oil level sensor circuit voltage high or short circuit in the high voltage circuit.

**Decryption:**

ECM module detects short circuit signal circuit to positive or open circuit battery "mass".

Fault code 499

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Oil level sensor circuit-low voltage or a short circuit on low tension circuit.

**Decryption:**

ECM module discovered that oil level sensor detected an internal failure.

Fault code 528

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

The additional torque curve selector switch-chaotic or incorrect data.

**Decryption:**

ECM module determines that an interruption in the chain torque curve selection switch.

Fault code 529

**Engine:**

QSB 3.3

**Error:**

Auxiliary input/output-voltage above the norm or a short circuit in the high voltage circuit.

**Decryption:**

ECM module determines that the chain support input/output high voltage signal is detected.

Fault code 545

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Bypass valve control circuit-response turbocharger mechanical system does not match the rule or regulation is violated.

**Decryption:**

ECM module determines that the intake manifold pressure exceeds the maximum allowed value for a given power rating of the engine.

Fault code 553

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Pressure sensor circuit in general high-pressure fuel line-precise data, but exceed the norm.

**Decryption:**

The ESM module found that fuel pressure above specified.

Fault code 554

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Pressure sensor circuit in general high-pressure fuel pipe-chaotic or incorrect data.

**Decryption:**

ECM module detected no change fuel pressure sensor signal.

Fault code 555

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Crankcase pressure data accurate, but above-average severity

**Decryption:**

ECM module has detected that the crankcase pressure above the specified level.

Fault code 556

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Crankcase pressure data accurate, but above normal, the highest severity level.

**Decryption:**

ECM module has detected that the crankcase pressure above the specified level.

Fault code 559

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Pressure sensor circuit in general high-pressure fuel line-precise data, but below-average severity level.

**Decryption:**

ECM module found that fuel pressure specified below.



Fault code 584

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Management chain Starter relay voltage high or short circuit in the high voltage circuit.

**Decryption:**

Found open circuit or high voltage in the chain lock starter.

Fault code 585

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Managing the Starter relay circuit low voltage or a short circuit on low tension circuit.

**Decryption:**

Low voltage was detected in the chain lock starter.

Fault code 596

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Battery voltage monitoring function has detected that it is high.

**Decryption:**

ECM module determines that the battery voltage exceeds the calibration.

Fault code 597

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Battery voltage monitoring function has detected that it is low.

**Decryption:**

ECM module determines that the battery voltage is less than the specified calibration.

Fault code 598

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Battery voltage control feature found that it is very low.

**Decryption:**

ECM module determines that the battery voltage is less than the specified calibration.

Fault code 599

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Dual outputs signals value exceeded the limit system for engine protection.

**Decryption:**

ECM module has determined that the dual-signal outputs exceeded limit motor protection system.

Fault code 649

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Replace engine oil and filter.

**Decryption:**

ECM module has determined that, in accordance with programmable function parameter controls the operation of the service you want to change engine oil and filter.

Fault code 686

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Rotational speed of turbocharger-chaotic or incorrect data.

**Decryption:**

ECM module has detected an invalid turbocharger speed signal.

Fault code 687

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Rotational speed of turbocharger-precise data, but below-average severity level.

**Decryption:**

ECM module detected low frequency rotation turbocharger.

Fault code 688

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Engine oil level-the exact data, but above the norm.

**Decryption:**

Oil level sensor detected high levels of oil.

Fault code 689

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Rotational speed/position of engine crankshaft-chaotic or incorrect data.

**Decryption:**

ECM module encountered an error crankshaft position sensor signal.

Fault code 691

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In the circuit of the temperature sensor at the inlet of the compressor turbocharger found high voltage signal.

**Decryption:**

ECM module detects that the voltage signal of the temperature sensor at the inlet to turbocharger compressor exceeds 4.8 v DC for more than 1 second.

Fault code 692

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

In the circuit of the temperature sensor at the inlet of the compressor turbocharger detected low voltage signal.

**Decryption:**

ECM module detects that the voltage signal of the temperature sensor at the inlet to turbocharger compressor is less than 0.2 VDC for more than 1 second.

<https://pdfmanual4trucks.jimdo.com/cummins-engine/cummins-engine-isf-2-8-isb-isc-isle-4isbe-6isbe-isde-ism-qsm-isx-qsx-fault-codes/>

Fault code 693

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Turbocharger compressor inlet temperature-chaotic or incorrect data.

**Decryption:**

ECM module detects that the temperature sensor at the inlet to turbocharger compressor too high or too low for these conditions of engine operation.

Fault code 697

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Internal temperature sensor circuit ECM module voltage above the norm or a short circuit in the high voltage circuit.

**Decryption:**

ECM module had determined the existence of internal sensor circuit short circuit temperature on the power supply circuit.

Fault code 698

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

The temperature sensor circuit ECM module detected low voltage signal or open circuit.

**Decryption:**

ECM module had determined the existence of internal sensor circuit short circuit temperature at "mass".

Fault code 699

[truckmanualshub.com](http://truckmanualshub.com)

**Engine:**

ISF, ISF 2.8 3.8

**Error:**

Fixed an erroneous or invalid temperature inside the ECM module.

**Decryption:**

ECM module detects that the internal temperature sensor signal the ECM module is invalid.

Fault code 731

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Signals from the engine speed sensor and the camshaft position sensor is not consistent.

**Decryption:**

ECM module has determined that the position of the crankshaft does not match the camshaft position sensor signal coming to log ECM module.

Fault code 778

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

ECM module encountered an error signal camshaft position sensor.

**Decryption:**

ECM module encountered a loss of the signal speed sensor/camshaft position for more than 1 second.

Fault code 779

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB 3.3

**Error:**

Chain sensor support equipment-source unknown

**Decryption:**

The signal value from OEM device exceeded the limit system for engine protection.

Fault code 779

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

Chain sensor support equipment-source unknown

**Decryption:**

The signal value from OEM device exceeded the limit system for engine protection.

Fault code 784

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB, QSB 3.3

**Error:**

Loss of communication with adaptive cruise control system.

**Decryption:**

ECM module is not receiving a valid message on multiplex network of J1939 adaptive cruise control for more than 1 second.

Fault code 1117

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

Dropouts power when installing the trigger switch in the on position. -chaotic or incorrect data.

**Decryption:**

Voltage in power supply circuit module briefly falls below the limit specified in the calibration, or power off from the ESM module goes wrong.

Fault code 1228

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Position of the EGR valve-chaotic or incorrect data.

**Decryption:**

ECM module determines that the valve position sensor EGR issues a chaotic signal, the EGR valve is not changed when the working conditions of the engine.

Fault code 1239

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

In the circuit of the sensor lever or pedal Accelerator high voltage detected.

**Decryption:**

ECM module determines that the signal voltage accelerator pedal position sensor is larger than the value specified in the calibration, for more than 1 second.

Fault code 1241

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

In the circuit of the sensor lever or pedal Accelerator 2 low voltage is detected.

**Decryption:**

ECM module detects that the voltage accelerator pedal position sensor signal less than the value specified in the calibration, for more than 1 second.

Fault code 1242

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

Pedal position sensor or accelerator lever-chaotic or incorrect data.

**Decryption:**

ECM module has determined that Accelerator position sensor readings 1 differ from the accelerator position sensor readings of more than 2%.

Fault code 1663

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

Temperature sensor at the inlet of the catalytic converter and exit swapped-condition persists.

**Decryption:**

Engine control module (ECM) determines the temperature at the inlet of the catalytic converter exhaust gas purification systems exceeds the temperature at the inlet of the particulate filter during active regeneration of particulate filter.

Fault code 1664

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

No catalytic converter in the exhaust system.

**Decryption:**

Electronic control module (ECM) determines the temperature at the inlet of the catalytic converter and the temperature at the inlet to the particulate filter are the same during active regeneration of after-treatment systems.

Fault code 1665

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

In the circuit of the temperature sensor at the inlet of the catalytic converter has detected low voltage signal.

**Decryption:**

ECM module detects that the voltage signal of the temperature sensor at the inlet of the catalytic converter is less than 0.1 VDC for more than 2 seconds.

Fault code 1666

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

In the circuit of the temperature sensor at the inlet of the catalytic converter has detected high voltage signal.

**Decryption:**

ECM module detects that the voltage signal of the temperature sensor at the inlet of the catalytic converter exceeds 4.97 in DC for more than 2 seconds.

Fault code 1667

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

The signal of the temperature sensor at the inlet of the catalytic converter does not change if you change the operating conditions of the engine.

**Decryption:**

ECM module determines that the signal of the temperature sensor at the inlet of the catalytic converter does not change if you change the operating conditions of the engine.

Fault code 1668

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

In level sensor circuit low voltage signal is detected.

**Decryption:**

ECM module detects that the voltage signal of liquid level in a tank of liquid for cleaning the exhaust gases outside the valid range (below normal).

Fault code 1669

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

In liquid level sensor circuit in the tank cleaning system of diesel engine exhaust gas found high voltage signal.

**Decryption:**

ECM module detects that the voltage signal of liquid level in a tank of liquid for cleaning the exhaust gases outside the valid range (above normal).

Fault code 1671

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

The level of fluids for cleaning of exhaust gases in the tank is very low.

**Decryption:**

Tank cleaning system of exhaust gases detected low fluid level.

Fault code 1673

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

The level of fluids for cleaning of exhaust gases in the tank has dropped to a critical level.

**Decryption:**

Critically low level liquid for cleaning exhaust gas in the tank.

Fault code 1674

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

In the circuit of the temperature sensor at the inlet filter particulate after-treatment system detected low voltage signal.

**Decryption:**

ECM module detects that the voltage signal of the temperature sensor at the inlet filter particulate matter less than 0.1 VDC for more than 2 seconds.

Fault code 1675

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

In the circuit of the temperature sensor at the inlet filter particulate after-treatment system detected high voltage signal.

**Decryption:**

ECM module detects that the voltage signal of the temperature sensor at the inlet filter particulate matter exceeds 4.97 in DC for more than 2 seconds.

Fault code 1676

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

The signal of the temperature sensor at the inlet of the particulate filter is not changed as conditions change on the engine.

**Decryption:**

ECM module determines that the signal of the temperature sensor at the inlet of the particulate filter is not changed as conditions change on the engine.

Fault code 1677

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

Fluid temperature sensor circuit in the tank-exhaust gas purification system voltage below norm or a short circuit on low tension circuit.

**Decryption:**

ECM module detects that the voltage signal of the temperature in the tank liquid for cleaning the exhaust gases outside the valid range (below normal).

Fault code 1678

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

Fluid temperature sensor circuit in the tank cleaning system of exhaust gases of diesel engines above normal voltage or a short circuit in the high voltage circuit.

**Decryption:**

ECM module determines that the signal of the temperature sensor at the inlet of the particulate filter is not changed as conditions change on the engine.

Fault code 1682

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**



Dosing unit for cleaning exhaust gas does not provide filling the system.

**Decryption:**

Dosing unit for cleaning exhaust gas does not provide successful filling the system after several attempts.

Fault code 1683

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

High voltage signal is detected in the heater circuit fluid in the tank to the exhaust gas system.

**Decryption:**

ECM module detects a short circuit on the battery plus or breakage in the circuit of the heater tank liquids for cleaning the exhaust gases.

Fault code 1684

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

In the circuit of heater liquid in the tank cleaning system of diesel engine exhaust gas detected low voltage signal.

**Decryption:**

ECM module detects a low voltage signal or short-circuit on "mass" in the chain of the heater tank liquids for cleaning the exhaust gases.

Fault code 1688

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Liquid injection controller for after-treatment system-faulty logical device.

**Decryption:**

Liquid injection controller for exhaust gas purification system encountered an internal error. The error data transmitted in the ECM module wire.

Fault code 1689

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

RTC power interruption-chaotic or incorrect data.

**Decryption:**

ECM module determines that the data real time lost due to power outage.

Fault code 1691

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

The temperature increase on the catalytic exhaust treatment systems for exhaust gas is less than expected.

**Decryption:**

ECM module defined by calculation, that the conversion efficiency of the catalytic converter below that required for the successful completion of the regeneration.

Fault code 1694

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

There is a mismatch in the norm of signal content of oxides of nitrogen.

**Decryption:**

ECM module determines that the content of nitrogen oxide sensor signal does not change if you change the operating conditions of the engine.

Fault code 1695

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

In the food chain in sensor wiring harness OEM high voltage detected.

**Decryption:**

ECM module detects that the sensor voltage out of range (above normal).

Fault code 1696

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

In the food chain sensors in OEM wiring harness found low voltage.

**Decryption:**

ECM module detects that the sensor voltage out of range (below normal).

Fault code 1697

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Air supply valve voltage high or short circuit in the high voltage circuit.

**Decryption:**

ECM module determines that the air solenoid valve circuit unit dosing fluids for cleaning exhaust gas found high voltage signal.

Fault code 1698

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Air supply valve voltage too low or short circuit on low tension circuit.

**Decryption:**

ECM module determines that the air solenoid valve circuit unit dosing fluids for cleaning exhaust gases detected low voltage signal.

Fault code 1711

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Dosing unit for exhaust gas purification systems-TEMP update data does not conform to the norm.

**Decryption:**

Exchange of data over a communications channel between the ECM module and liquid dosage unit for exhaust gas purification system is interrupted.

Fault code 1712

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

Heater fluids for cleaning of exhaust gases may not melt the frozen liquid.

**Decryption:**

ECM module detects that the heater fluids for cleaning of exhaust gases may not melt the frozen liquid.

Fault code 1713

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

Fluid heater fuel tank exhaust cleaning systems-data accurate, but above-average severity level. Heater fluids for cleaning of exhaust gases in the tank permanently switched on.

**Decryption:**

ECM module has determined that the temperature of the liquid for cleaning of exhaust gases in the tank is greater than 75° c

Fault code 1843

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

In the chain of crankcase pressure sensor detected high voltage signal.

**Decryption:**

ECM module determines that the pressure sensor signal voltage crankcase gases exceeds 4.8 v DC for more than 1 second.

Fault code 1844

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

In the chain of crankcase pressure sensor low voltage signal is detected.

**Decryption:**

ECM module determines that the pressure sensor signal voltage crankcase emissions less than 0.2 VDC for more than 1 second.

Fault code 1852

**Engine:**

[truckmanualshub.com](http://truckmanualshub.com)

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

The availability of water in fuel sensor indicates the water level exceeding the limit for issuing warnings.

**Decryption:**

ECM module detects the presence of water in the fuel for a long time.

Fault code 1866

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

Differential pressure sensor circuit on EGR valve-chaotic or incorrect data.

**Decryption:**

Encountered an error signal differential pressure sensor EGR sensor or not authenticated automatically zero.

Fault code 1876

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

In a chain of outlet temperature sensor particulate filter exhaust cleaning systems detected high voltage signal or open circuit.

**Decryption:**

ECM module detects that the voltage signal of the temperature sensor at the exit of the particulate filter exceeds 4.97 in DC for more than 2 seconds.

Fault code 1877

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

In a chain of outlet temperature sensor particulate filter exhaust cleaning systems detected low voltage signal.

**Decryption:**

ECM module determines that the voltage of the outlet temperature sensor signal filter particulate matter less than 0.1 VDC for more than 2 seconds.

Fault code 1878

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

The signal of the temperature sensor at the exit of the particulate filter is not changed as conditions change on the engine.

**Decryption:**

The temperature of the exhaust gas system-chaotic or incorrect data.

Fault code 1879

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

In a chain gauge pressure in the exhaust gas pollutant emission control system detected high voltage signal.

**Decryption:**

ECM module detects that the voltage differential pressure sensor signal filter particulate matter exceeds 4.75 v DC for more than 1 second.

Fault code 1881

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

In a differential pressure sensor circuit to filter particulates of exhaust treatment systems detected low voltage signal or open circuit.

**Decryption:**

ECM module detects that the voltage differential pressure sensor signal filter particulate matter less than 0.25 v DC for more than 1 second.

Fault code 1883

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

Differential pressure sensor to filter particulates of exhaust purification systems-messy nature or due to incorrect data.

**Decryption:**

Chaotic signal pressure on particulate filter, exhaust gas purification system.

Fault code 1896

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

Controller EGR valve-incorrect calibration.

**Decryption:**

Automatic calibration procedure failed EGR valve

Fault code 1887

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

Chain gauge nitrogen oxide content at the exit of the exhaust gas cleaning systems-voltage too low or short circuit on low tension circuit.

**Decryption:**

An internal sensor defect content of nitrogen oxides at the exit of the exhaust gas cleaning systems.

Fault code 1898

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

[truckmanualshub.com](http://truckmanualshub.com)

Change drive controller geometry turbocharger-incorrect calibration.

**Decryption:**

ECM module predelil that failed automatic calibration procedure turbocharger with variable geometry when first starting the switch to the on position.

Fault code 1899

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

Differential pressure sensor EGR system found low gas consumption in exhaust gas recirculation system, or differential pressure sensor do not match the conditions of the engine.

**Decryption:**

Pressure drop on the EGR valve data accurate, but above-average severity level.

Fault code 1911

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISF, ISF 2.8-3.8

**Error:**

Pressure sensor circuit in general high-pressure fuel pipe, but exceed the norm.

**Decryption:**

ECM module found that pressure in general high-pressure fuel pipe above specified.

Fault code 1921

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

The amount of soot particulate filter exhaust purification system exceeds recommended limits.

**Decryption:**

ECM module determines that the amount of soot particulate filter, exhaust gas purification systems exceeds the norm (medium severity). Soot removal requires the regeneration of after-treatment systems.

Fault code 1922

**Engine:**

ISB, ISC ISL, ISDe, ISLe, QSB3

**Error:**

The amount of soot particulate filter exhaust purification system exceeds recommended limits.

**Decryption:**

ECM module determines that the amount of soot particulate filter, exhaust gas purification system exceeds the maximum allowable limit.

Fault code 1938

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

Change control drive geometry turbocharger found low supply voltage from the battery.

**Decryption:**

Electronic voltage control module data accurate, but exceed the norm-average severity level.

Fault code 1942

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

ECM module has detected that the crankcase pressure sensor signal does not change if you change the operating conditions of the engine.

**Decryption:**

ECM module determines that the signal of the temperature sensor has a chaotic character.

Fault code 1943

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISX, ISM QSX

**Error:**

Engine torque is reduced because the vehicle is running at high altitude.

**Decryption:**

ECM module has determined that ambient air pressure below the calibrated values.

Fault code 1962

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

High internal temperature change drive geometry turbocharger.

**Decryption:**

This fault code is logged when internal temperature change drive geometry turbocharger exceeds 125° c continuously for 30 minutes.

Fault code 1966

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

Exhaust gas temperature entering the exhaust system exceeds the limit for engine protection.

**Decryption:**

ECM detects the presence of high temperature exhaust gas cleaning system, provided that the active particulate filter regeneration TRATMENT system is not possible.

Fault code 1968

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

Temperature sensor no. 2 particulate filter inlet exceeded the maximum temperature limit.

**Decryption:**

Temperature sensor no. 2 particulate filter inlet exceed 649° c for 5 seconds and then reduced to a value below 550° c.

Fault code 1969

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

Temperature sensor no. 2 particulate filter inlet exceeded the maximum engine protection system for temperature.

**Decryption:**

No. 2 temperature sensor at the inlet of the particulate filter-critical.

Fault code 1972

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

Temperature sensor no. 3 inlet filter particulate matter exceeded the maximum temperature limit.

**Decryption:**

The outlet temperature sensor particulate filter exceeds 649° c for 5 seconds and then reduced to a value below 575° c.

Fault code 1973

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

Temperature sensor no. 3 inlet filter particulate matter exceeded the maximum engine protection system for temperature.

**Decryption:**

Temperature sensor no. 3 at the inlet of the particulate filter-critical.

Fault code 1974

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

Filter crankcase ventilation system maintenance.

**Decryption:**

The ESM module has detected that the crankcase pressure exceeds calibrated level.

Fault code 1981

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

Pressure drop on the filter particulate matter exceeded the maximum operating limit, or particulate filter is clogged.

**Decryption:**



ECM module determines that the particulate filter exhaust purification system is clogged, or that pressure differential on particulate filter exceeds the maximum limit.

Fault code 1993

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

Particulate filter exhaust purification system is missing.

**Decryption:**

The absence of a particulate filter exhaust purification systems.

Fault code 2182

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

In the signal circuit exhaust brake solenoid valve found open circuit or high voltage.

**Decryption:**

The exhaust brake circuit detected signal with pulse-width modulation above the required when this signal is off the ECM module.

Fault code 2183

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

In the signal circuit exhaust brake solenoid valve low voltage is detected.

**Decryption:**

In the circuit of motor brakes not detected signal with pulse-width modulation with a level equal to the voltage of the supply system when this signal is on.

Fault code 2185

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

High voltage was detected in the foot chain (5) throttle position sensor.

**Decryption:**

ECM module detects that the sensor voltage out of range (above normal).

Fault code 2186

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

In the foot chain (+5) in the accelerator pedal position sensor low voltage is detected.

**Decryption:**

ECM module detects that the sensor voltage out of range (below normal).

Fault code 2195

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

Found door opening emergency exits the vehicle.

**Decryption:**

The fault code is logged when the door of the vehicle open the emergency exit.

Fault code 2198

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

Turbocharger with variable geometry controller does not recognize the correct standard J1939 message received on the multiplex network from the ECM module.

**Decryption:**

ECM module is not receiving a valid message on multiplex network from the ECM module J1939 more than 1 second.

Fault code 2265

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

In the signal circuit pre-supply pump found high voltage or open circuit.

**Decryption:**

In the chain of pre-supply fuel pump detected signal with pulse-width modulation with a level greater than 0 when this signal is off the ECM module.

Fault code 2266

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

In the chain of pre-supply fuel pump low voltage signal is detected.

**Decryption:**

In the chain of pre-supply fuel pump detected signal with pulse-width modulation from 0 level when the ECM module is enabled and the signal must be equal to the voltage of the supply system.

Fault code 2271

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Position sensor circuit EGR valve voltage high or short circuit in the high voltage circuit.

**Decryption:**

ECM module detects that the voltage position sensor EGR valve exceeds the value specified in the calibration.

Fault code 2272

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB, ISX, QSX

**Error:**

In the circuit of valve position sensor EGR detected low voltage signal.

**Decryption:**

ECM module determines that all position sensors show high signal (or all position sensors show low signal).

Fault code 2273

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB, ISX, QSX

**Error:**

In a chain gauge pressure in the exhaust gas recirculation system detected high voltage signal.

**Decryption:**

ECM module detects that the voltage differential pressure sensor signal to the EGR valve is greater than 4.8 v DC for more than 4 seconds.

Fault code 2274

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB, ISX, QSX

**Error:**

In a chain gauge pressure in the exhaust gas recirculation system detected low voltage signal.

**Decryption:**

ECM module detects that the voltage differential pressure sensor signal on EGR valve less than 0.26 in DC for more than 2 seconds.

Fault code 2288

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

ECM module found a high frequency of rotation turbocharger.

**Decryption:**

ECM module has determined that the rotational speed of turbocharger exceeds the maximum limit specified in the calibration.

Fault code 2311

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM, ISX, QSX

**Error:**

Too high or too low resistance circuit Executive of the valve of the fuel system.

**Decryption:**

The fault code is recorded in the presence of endangered bounce chain Executive valve fuel pump.

Fault code 2321

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM, ISX, QSX

**Error:**

Periodic jitter speed sensor the crankshaft.

**Decryption:**

ECM module detects the presence of an endangered or a weaker signal speed sensor/crankshaft position after some time the engine is running.

Fault code 2322

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

Periodic jitter speed sensor camshaft.

**Decryption:**

ECM module found disappearing loss signal speed sensor/camshaft position.

Fault code 2345

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

Speed sensor turbocharger shows an error when determining speed.

**Decryption:**

ECM module has determined that the rotational speed of the turbocharger increases faster than it is physically possible for a turbocharger.

Fault code 2346

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM, ISX, QSX

**Error:**

The temperature at the inlet to the turbine of the turbocharger has exceeded the limit the inclusion of engine protection.

**Decryption:**

ECM module has determined that the estimated value of the turbine inlet temperature exceeds the value specified in the calibration.

Fault code 2347

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM, ISX, QSX

**Error:**

High air temperature at the outlet of a turbocharger compressor (calculated module, ECM)

**Decryption:**

ECM module has determined that the estimated value of the temperature at the outlet of a turbocharger compressor exceed 238° c.

Fault code 2349

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB, ISX, QSX

**Error:**

ECM module identified the presence of breakage of conclusions or winding motor.

**Decryption:**

Module (ECM) has identified the presence of breakage in the engine wiring harness or in the winding motor EGR valve.

Fault code 2351

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM, ISX, QSX

**Error:**

ECM module determined the presence of a short circuit or motor winding on the findings of the "mass" or the food chain.

**Decryption:**

The ESM module has determined the presence of a short-circuit in the motor circuits EGR valve.

Fault code 2352

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Control circuit EGR valve voltage high or short circuit in the high voltage circuit.

**Decryption:**

ECM module determines that the chain motor EGR valve detected high voltage.

Fault code 2357

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM, ISX, QSX

**Error:**

The duration of the motor cycle EGR valve is exceeded, which indicates that the jamming of the valve in the open position.

**Decryption:**

This fault code is logged when duty cycle required for opening the EGR valve, exceeding 95% for 3 seconds. Controller EGR valve attempts to open the valve again after 10 seconds. The fault code is logged after three failed attempts.

Fault code 2359

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB, ISX, QSX

**Error:**

Differential pressure sensor EGR system has detected a high gas flow in the exhaust gas recirculation system, or differential pressure sensor do not match the conditions of the engine.

**Decryption:**

Pressure drop in exhaust gas recirculation system exceeds the value specified in the calibration.

Fault code 2363

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

In the signal circuit exhaust brake solenoid valve low voltage is detected.

**Decryption:**

In the circuit of motor brakes not detected signal with pulse-width modulation with a level equal to the voltage of the supply system when this signal is on.

Fault code 2367

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM, ISX, QSX

**Error:**

In the signal circuit exhaust brake solenoid valve found open circuit or high voltage.

**Decryption:**

The exhaust brake circuit detected signal with pulse-width modulation with a level equal to the voltage of the supply system when this signal is switched off.

Fault code 2369

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM, ISX, QSX

**Error:**

The motor brake control circuit low voltage signal is detected.

**Decryption:**

ECM module detects that the motor brake control circuit is shorted to low voltage circuit.

Fault code 2371

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM, ISX, QSX

**Error:**

Exhaust brake chain tension above the norm or a short circuit on the high voltage circuit.

**Decryption:**

ECM module detects that the motor brake control circuit has shorted out the high voltage circuit.

Fault code 2373

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM, ISX, QSX

**Error:**

Circuit pressure sensor in the exhaust system-above normal voltage or a short circuit in the high voltage circuit.

**Decryption:**

ECM module determines that the signal voltage a pressure sensor in the exhaust system is greater than 4.75 volts DC for more than 4 seconds.

Fault code 2374

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM, ISX, QSX

**Error:**

Circuit pressure sensor in the exhaust system voltage below norm or a short circuit on low tension circuit.

**Decryption:**

ECM module determines that the signal voltage a pressure sensor in the exhaust system less than 0.25 v DC for more than 4 seconds.

Fault code 2375

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB, ISX, QSX

**Error:**

Chain temperature sensor exhaust gas recirculation system-above normal voltage or a short circuit in the high voltage circuit.

**Decryption:**

ECM module detects that the voltage signal of the temperature sensor in the exhaust gas recirculation system exceeds 5.1 VDC for more than 1 second.

Fault code 2376

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB, ISX, QSX

**Error:**

Temperature sensor circuit EGR system voltage too low or short circuit on low tension circuit.

**Decryption:**

ECM module detects that the voltage signal of the temperature sensor in the exhaust gas recirculation system below 0.09 in DC for more than 1 second.

Fault code 2377

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM, ISX, QSX

**Error:**

Fan control circuit voltage above the norm or a short circuit on the high voltage circuit.

**Decryption:**

ECM module detects a fan control signal circuit with pulse-width modulation with a level greater than 0 when this signal is off the ECM module.

Fault code 2387

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

Logic controller changes the geometry turbocharger discovered irregular extreme position, or change the drive geometry turbocharger cannot go in the closed position.

**Decryption:**

The fault code is set when the actual position of the drive changes the geometry turbocharger does not match for more than 10 seconds.

Fault code 2398

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Ambient air-chaotic or incorrect data.

**Decryption:**

ECM module predelil chaotic ambient air temperature sensor signal.  
Fault code 2442

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Relay solenoid valve injector cylinder 1-incorrect calibration. Invalid barcode information injectors.

**Decryption:**

ECM module determines that the value of the barcode injector cylinder 1 ECM module has been entered incorrectly.

Fault code 2443

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Relay solenoid valve injector cylinder 2-incorrect calibration. Invalid barcode information injectors.

**Decryption:**

ECM module determines that the value of the barcode cylinder 2 injector was introduced into the ECM module correctly.

Fault code 2444

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Relay solenoid valve injector cylinder 3-incorrect calibration. Invalid barcode information injectors.

**Decryption:**

ECM module determines that the value of the barcode cylinder 3 injector was introduced into the ECM module correctly.

Fault code 2445

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Relay solenoid valve injector cylinder 4-incorrect calibration. Invalid barcode information injectors.

**Decryption:**

ECM module determines that the value of the barcode cylinder 4 injector was introduced into the ECM module correctly.

Fault code 2448

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

Detected low coolant level.

**Decryption:**

[truckmanualshub.com](http://truckmanualshub.com)



ECM module determines that the coolant level is below the limit for normal working conditions.

Fault code 2449

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

Change drive controller geometry turbocharger-incorrect calibration.

**Decryption:**

The position of the drive during initial power up not defined internally due to sticking mechanism or internal fault. The actual position of the drive changes the geometry turbocharger is unknown.

Fault code 2451

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

The temperature at the inlet to the turbine of the turbocharger has exceeded the limit the inclusion of engine protection.

**Decryption:**

ECM module has determined that the estimated value of the turbine inlet temperature exceeds the value specified in the calibration.

Fault code 2554

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB, ISX, QSX

**Error:**

Chaotic signal pressure sensor in the exhaust system when you first turn the actuator switch in the on position.

**Decryption:**

1. The ECM Module has determined that the value of the pressure in the exhaust system above or below readings of other absolute pressure sensors in the engine after installation of the actuator switch in the on position when the engine is not running. 2. ECM Module has determined that the pressure in the exhaust system during normal operation of the engine is less than the value specified by the calibration.

Trouble code 2555

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

In the circuit the heater intake system found high voltage signal.

**Decryption:**

The fan control circuit detected signal with pulse-width modulation with a level greater than 0 when this signal is off the ECM module.

Fault code 2556

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

[truckmanualshub.com](http://truckmanualshub.com)

In the circuit the heater intake system detected low voltage signal.

**Decryption:**

In the circuit the heater intake system not detected signal with pulse-width modulation with a level equal to the voltage of the supply system when this signal is on.

Fault code 2557

**Engine:**

QSB

**Error:**

Auxiliary signal circuit with pulse-width modulated voltage above the norm or a short circuit in the high voltage circuit.

**Decryption:**

In the analog signal chain torque found high voltage signal.

Fault code 2558

**Engine:**

QSB

**Error:**

Auxiliary signal circuit with pulse-width modulation voltage is below normal or short circuit on low tension circuit.

**Decryption:**

In the analog signal chain torque signal low voltage is detected.

Fault code 2634

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

Logic controller with variable geometry turbocharger encountered an internal error.

**Decryption:**

Change drive geometry turbocharger encountered an internal error in the logical controller turbocharger.

Fault code 2635

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

Mismatch calibration change drive geometry turbocharger and ECM module.

**Decryption:**

1. module ECM has detected incompatibility calibration change drive geometry turbocharger and ECM module. 2. Change Drive geometry turbocharger discovered that the power supply voltage does not match the installed drive, taking into account the part numbers. 3. The ECM Module has determined that the turbocharger mounted inappropriate changes drive geometry.

Fault code 2636

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

Change drive chain geometry turbocharger-temp update data does not conform to the norm.

**Decryption:**

The Basic module ECM engine not getting accurate reports on the multiplex network J1939 change drive from geometry turbocharger more than 1 second.

Fault code 2637

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

Found clogging soot front face surface of the catalytic converter.

**Decryption:**

ECM module detects the presence of conditions for clogging the catalyst Endcap and the possibility that the blockage occurred.

Fault code 2638

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

The temperature increase on the catalytic exhaust treatment systems for exhaust gas is less than expected.

**Decryption:**

ECM module defined by calculation, that the conversion efficiency of the catalytic converter below that required for the successful completion of the regeneration.

Fault code 2639

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

The amount of soot particulate filter exhaust purification system exceeds recommended limits.

**Decryption:**

ECM module determines that the amount of soot particulate filter, exhaust gas purification systems exceeds the norm (the lowest severity level). Soot removal requires the regeneration of after-treatment systems.

Fault code 2646

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

EGR valve is closed to reduce the temperature of the coolant.

**Decryption:**

-Coolant temperature condition persists.

Fault code 2659

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

EGR valve is closed to reduce the temperature of the coolant.

**Decryption:**

-Coolant temperature condition persists.

Fault code 2728

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

Found that particulate filter active regeneration TRATMENT system will be ineffective.

**Decryption:**

Exhaust gas purification system determined that active regeneration duration exceeds the time specified in the calibration and temperature in exhaust gas cleaning system has not reached the minimum value for a complete regeneration of the filter particulate matter.

Fault code 2742

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

The temperature of the exhaust gas system does not reach the values needed for regeneration in stationary conditions.

**Decryption:**

1. The ECM Module determines that the measured temperature at the inlet of the catalytic converter does not correspond to the level required for regeneration in stationary conditions. 2. ECM Module determines that the exhaust gas temperature entering the exhaust system is not high enough to remove water from the system during prolonged engine idling.

Fault code 2743

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

The temperature of the exhaust gas system does not reach the values needed for regeneration in stationary conditions.

**Decryption:**

1. The ECM Module determines that the measured temperature at the inlet of the catalytic converter does not correspond to the level required for regeneration in stationary conditions. 2. ECM Module determines that the exhaust gas temperature entering the exhaust system is not high enough to remove water from the system during prolonged engine idling.

Fault code 2754

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

Elevated amounts of black smoke coming from the engine in the particulate filter exhaust purification systems.

**Decryption:**

This fault code is logged when an accumulation of soot inside the particulate filter is faster than under normal conditions.

Fault code 2765

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

Barcodes group injectors-incorrect calibration. Invalid barcode information injectors.

**Decryption:**

ECM module determines that the values entered into the injector barcode ECM module correctly.

Fault code 2771

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

The content of nitrogen oxide sensor at the exit of the exhaust gas cleaning systems-TEMP update data does not conform to the norm.

**Decryption:**

Exchange data between a module and ECM content of oxides of nitrogen in the exhaust gases over a communications channel SAE J1939.

Fault code 2772

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

The content of nitrogen oxide sensor at the exit of the exhaust gas cleaning systems-data accurate, but above the norm-the lowest severity level. The amount of nitrogen oxides content sensor signal exceeds the recommended level.

**Decryption:**

This fault code is logged when diagnostic procedure specifies that the output signal from the content of nitrogen oxides exceeds the value specified in the calibration, for two consecutive ignition cycles.

Fault code 2773

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

The content of nitrogen oxide at the outlet of the exhaust gas cleaning systems-data accurate, but above normal, the highest severity level. The amount of nitrogen oxides content sensor signal exceeds the recommended level.

**Decryption:**

This fault code is logged when diagnostic procedure specifies that the output signal from the content of nitrogen oxides exceeds the value specified in the calibration, for two consecutive ignition cycles.

Fault code 2777

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

Particulate filter regeneration is disabled because the switch ban regeneration is set to ban.

**Decryption:**

This fault code is logged when the switch is set to position regeneration ban ban, and the fault code, 1921 or 1922 2639 enters the active state due to the large amount of soot particulate filter.

Fault code 2778

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

Need to change engine oil, because of its possible dilution of fuel.

**Decryption:**

This fault code is logged when the ECM module detects the possibility of dilution semi-synthetic motor oil with fuel.

Fault code 2813

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB

**Error:**

Valve regeneration system of exhaust gases is closed during the regeneration of a particulate filter, exhaust gas purification system.

**Decryption:**

Exhaust gas purification control system has determined that the exhaust gas temperature during active regeneration of particulate filter, exhaust gas purification system is not high enough.

Fault code 2961

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB, ISX, QSX

**Error:**

The temperature of the exhaust gas recirculation system-accurate data, but exceed the norm-the lowest severity level. The temperature of the exhaust gas recirculation system exceeded the limit the inclusion of engine protection.

**Decryption:**

ECM module detects that the temperature of the exhaust gas recirculation system exceeds the specified in kolibrovke for more than 5 seconds.

Fault code 2962

**Engine:**

ISB, ISC ISL, ISLe, ISDe, QSB, ISX, QSX

**Error:**

The temperature of the exhaust gas recirculation system-accurate data, but above-average severity level. The temperature of the exhaust gas recirculation system exceeded the limit the inclusion of engine protection.

**Decryption:**

ECM module detects that the temperature of the exhaust gas recirculation system exceeds 246° c for more than 5 seconds.

Fault code 2963

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM, ISX, QSX

**Error:**

Coolant temperature data are accurate, but exceed the norm-the lowest severity level. Coolant temperature exceeds the warning limit system for engine protection.

**Decryption:**

ECM module determines that the coolant temperature sensor signal exceeds the calibrated limit ECM module.

Fault code 2964

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM, ISX, QSX

**Error:**

Intake manifold temperature data are accurate, but exceed the norm-the lowest severity level. The signal of the temperature sensor in the intake manifold determines that it is above the limit of the engine protection warning.

**Decryption:**

ECM module detects that the voltage signal of the temperature sensor in the intake manifold exceeds calibrated limit ECM module.

Fault code 2973

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM, ISX, QSX

**Error:**

ECM module found that signal intake manifold pressure sensor does not correspond to the norm for these conditions of engine operation.

**Decryption:**

ECM module determines that the signal pressure sensor in the intake manifold does not change if you change the operating conditions of the engine or has a chaotic when you rotate the trigger switch in the on position.

Fault code 2976

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

High dosing unit for exhaust of diesel engines-chaotic or incorrect data. In the block of dosing liquids diesel engines encountered an internal error.

**Decryption:**

ECM module determines that the internal temperature sensor signal dosing unit for diesel engine exhaust is not consistent with the signals of other temperature sensors installed on an engine for two consecutive cycles ignition during Diagnostics.

Fault code 3142

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

High voltage signal is detected in the circuit of the temperature sensor at the inlet of the catalytic converter.

**Decryption:**

ECM module detects that the voltage signal of the temperature sensor at the inlet of the catalytic converter more than 4.4 volts DC for more than 2 seconds.

Fault code 3143

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

Low voltage signal is detected in the temperature sensor circuit.

**Decryption:**

ECM module detects that the voltage signal of the temperature sensor at the inlet of the catalytic converter less than 0.13 in DC for more than 2 seconds.

Fault code 3144

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

The signal of the temperature sensor at the inlet of the catalytic converter is not changed when the working conditions of the engine.

**Decryption:**

ECM module determines that the signal of the temperature sensor at the inlet of the catalytic converter is invalid (contrary to common sense) for more than 5 minutes.

Fault code 3145

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

The temperature sensor at the inlet of the catalytic converter-tempo changes are underweight. The temperature sensor at the inlet of the catalytic converter does not respond to the changing conditions of engine operation.

**Decryption:**

ECM module determines that the temperature at the inlet of the catalytic converter is not changed when the working conditions of the engine.

Fault code 3146

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Temperature sensor circuit on SCR catalytic converter issue-voltage above the norm or a short circuit in the high voltage circuit.

**Decryption:**

ECM module detects that the voltage of the outlet temperature sensor signal catalytic converter exceeds the value specified in the calibration when the trigger switch is in the on position.

Fault code 3147

[truckmanualshub.com](http://truckmanualshub.com)



**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

A chain of outlet temperature sensor catalytic converter-Voltage too low or short circuit on low tension circuit.

**Decryption:**

ECM module detects that the voltage of the outlet temperature sensor signal catalytic converter is less than the value specified in the calibration when the trigger switch is in the on position.

Fault code 3149

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

The outlet temperature sensor catalytic converter does not respond to the changing conditions of engine operation.

**Decryption:**

ECM module determines that the outlet temperature of the catalytic converter is not changed when the working conditions of the engine.

Fault code 3151

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

The absence of a catalytic converter in the exhaust gas pollutant emission control system-condition persists.

**Decryption:**

ECM module determines that the graduation system there is no selective catalytic converter.

Fault code 3163

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Improperly connecting the temperature sensor at the inlet of the catalytic converter-incorrect calibration. Swapped temperature sensor connectors at the inlet and outlet of the catalytic converter.

**Decryption:**

ECM module determines that the signals of temperature sensors on the inlet and outlet of catalytic converter swapped.

Fault code 3164

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

Detected high temperature at the inlet of the catalytic converter.

**Decryption:**

ECM module detects that the temperature at the inlet of the catalytic converter is greater than the value specified in the calibration.

Fault code 3236

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

High temperature catalytic converter.

**Decryption:**

ECM module detects that the temperature at the outlet of catalytic converter exceeds the value specified in the calibration.

Fault code 3237

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

In the circuit of heater line release liquids diesel engines found high voltage signal.

**Decryption:**

Liquid injection controller in control system of exhaust gases of diesel engines determines the voltage at the heater line exceeds the value specified in the calibration.

Fault code 3238

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

In line heater relay circuit liquids for cleaning the exhaust gases detected low voltage signal.

**Decryption:**

ECM module detects that the voltage at the heater line exceeds the value specified in the calibration.

Fault code 3239

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

In the circuit of the heater 2 line liquid for exhaust of diesel engines found high voltage signal.

**Decryption:**

ECM module detects that the voltage at the heater line is lower than the values set in the calibration.

Fault code 3242

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

Heater fluids for cleaning exhaust gas-mechanical system response does not match the rule or regulation is violated.

**Decryption:**

ECM module issued the command to switch on the heater, liquid in the tank cleaning system of exhaust gases, but the temperature sensor in the tank is not fixed.

Fault code 3258

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Heater circuit line liquid for cleaning exhaust system-current low or open circuit.

**Decryption:**

Liquid injection controller for exhaust gas purification system detects open circuit or a short circuit on the "weight" in the circuit the heater line.

Fault code 3261

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

2 heater circuit line release liquids diesel engines-low current or open circuit.

**Decryption:**

Liquid injection controller for exhaust of diesel engines detect open circuit or a short circuit on the "weight" in the circuit the heater line.

Fault code 3326

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

ECM module is not receiving timely data expected from the accelerator position sensor connected to the multiplex network, or not getting them at all.

**Decryption:**

ECM module is unable to retrieve messages on the multiplex network from the connected device to it.

Fault code 3382

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Exhaust gas recirculation-precise data, but below-average severity level.

**Decryption:**

ECM module determines that the actual flow in exhaust gas recirculation system specified below, based on the current conditions of engine operation.

Fault code 3383

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Exhaust gas recirculation-precise data, but above-average severity level.

**Decryption:**

ECM module determines that the actual flow in exhaust gas recirculation system above specified, based on the current conditions of engine operation.

Fault code 3422

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

3 heater circuit fluid in exhaust gas cleaning system of diesel engines above normal voltage or a short circuit in the high voltage circuit.

**Decryption:**

Fluid controller in control system of exhaust gases of diesel engines determines the voltage at the heater line exceeds the value specified in the calibration.

Fault code 3425

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

3 heater circuit fluid in exhaust gas treatment system for diesel engines-low current or open circuit.

**Decryption:**

Liquid injection controller for exhaust of diesel engines detect open circuit or a short circuit on the "weight" in the circuit the heater line.

Fault code 3426

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Heater circuit 4 fluid in exhaust gas cleaning system of diesel engines above normal voltage or a short circuit in the high voltage circuit.

**Decryption:**

Liquid injection controller in control system of exhaust gases of diesel engines determines that the heater voltage exceeds the value specified in the calibration.

Fault code 3429

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Heater circuit 4 fluid in exhaust gas treatment system for diesel engines-low current or open circuit.

**Decryption:**

Liquid injection controller for exhaust of diesel engines detect breakage in circuits of the heater.

Fault code 3492

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

The RTC indicated to stop timer off state of the engine.

**Decryption:**

Timer off state of the engine is not working properly, and his testimony does not correspond to other timers in the ECM module.

Fault code 3539

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Chain actuator position sensor throttle body inlet voltage above the norm or a short circuit in the high voltage circuit.

**Decryption:**

ECM module detects that the voltage position sensor throttle actuator exceeds the value specified in the calibration.

Fault code 3541

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Chain actuator position sensor throttle body inlet-Low Voltage or a short circuit on low tension circuit.

**Decryption:**

ECM module detects that the voltage of the actuator position sensor throttle body inlet is less than the value specified in the calibration.

Fault code 3542

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

The actuator position sensor throttle body inlet produces chaotic signal, or the position of the throttle valve actuator inlet is not changed when the working conditions of the engine.

**Decryption:**

ECM module determines that the actuator position sensor throttle body inlet produces chaotic signal, or the position of the throttle valve actuator inlet is not changed when the working conditions of the engine.

Fault code 3548

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Issue of dosing unit for exhaust gas purification system-there is a fault

**Decryption:**

ECM module determines that the unit does not provide dosing filling the system.

Fault code 3557

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Liquid injection controller in control system of exhaust gases of diesel engines-chaotic or incorrect data.

**Decryption:**

Liquid injection controller in control system of exhaust gases of diesel engines found too high or too low voltage in one of the circuits of the block of dosing.

Fault code 3558

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

Dosing unit for exhaust of diesel engines above normal voltage or a short circuit in the high voltage circuit.

**Decryption:**

ECM module detects that the dosing valve chain fluids for cleaning exhaust gas has a short circuit in the high or low voltage circuit or open circuit.

Fault code 3559

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

Dosing unit for exhaust of diesel engines-low voltage or a short circuit on low tension circuit.

**Decryption:**

ECM module detects that the voltage signal or power supply dosing fluids for cleaning the exhaust gases outside the valid range (below normal).

Fault code 3561

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Dosing unit for exhaust of diesel engines-low current or open circuit.

**Decryption:**

ECM module found block chain breakage in fluid dispensing systems for diesel engines.

Fault code 3562

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Heater relay line release liquids of diesel engines above normal voltage or a short circuit in the high voltage circuit.

**Decryption:**

Liquid injection controller for exhaust of diesel engine detects that the voltage in the circuit heater relay line release liquids diesel engine exceeds the value specified in the calibration.

Fault code 3563

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Heater relay line release liquids diesel engines-low voltage or a short circuit on low tension circuit.

**Decryption:**

Liquid injection controller for exhaust of diesel engine detects that the voltage in the circuit heater relay line release liquids diesel engines is less than the value specified in the calibration.

Fault code 3564

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Heater relay circuit fluid in exhaust gas treatment system for diesel engines-low Current or open circuit. Open circuit heater relay found fluid in exhaust gas treatment system for diesel engines.

**Decryption:**

Liquid injection controller for exhaust of diesel engines detect breakage in circuits heater relay line release liquids diesel engines.

Fault code 3564

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Liquid dosing valve for exhaust gas purification systems-voltage above the norm or a short circuit in the high voltage circuit.

**Decryption:**

Liquid injection controller for exhaust gas purification system detects that the voltage at the metering valve for fluid purification system of exhaust gases is greater than the value specified in the calibration.

Fault code 3566

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Liquid dosing valve for exhaust gas purification systems-Voltage too low or short circuit on low tension circuit.

**Decryption:**

Liquid injection controller for exhaust gas purification system detects that the voltage at the metering valve for fluid purification system of exhaust gases is less than the value specified in the calibration.

Fault code 3567

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

In the chain of the valve dosing fluids for cleaning exhaust gas encountered an internal error.

**Decryption:**

ECM module detects that the dosing valve chain fluids for cleaning exhaust gas has a short circuit in the high or low voltage circuit or open circuit.

Fault code 3568

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

Encountered mechanical failure of the metering valve for fluid purification systems for exhaust gases.

**Decryption:**

ECM module determines that the pressure of fluids for cleaning exhaust gas exceeds a threshold.

Fault code 3569

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Input line dosing unit for exhaust of diesel engines-mechanical system response does not match the rule or regulation is violated.

**Decryption:**

Liquid injection controller in control system of exhaust gases of diesel engines found mechanical malfunction of the dispensing unit piping input and release fluid diesel engines is not served on the dosing valve.

Fault code 3571

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

In the chain of pressure fluids for cleaning exhaust gas found high voltage signal.

**Decryption:**

ECM module detects that pressure sensor signal voltage fluids for cleaning the exhaust gases outside the valid range (above normal).

Fault code 3572

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

In the chain of pressure fluids for cleaning exhaust gases detected low voltage signal.

**Decryption:**

ECM module detects that pressure sensor signal voltage fluids for cleaning the exhaust gases outside the valid range (below normal).

Fault code 3574

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

Metering block detected low fluid pressure.

**Decryption:**



ECM module determines that the pressure of fluids for cleaning exhaust gases below threshold.

Fault code 3575

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

Dosing unit for purifying exhaust gases found in the return pipeline blockage of fluids for cleaning of exhaust gases.

**Decryption:**

ECM module determines that the pressure of fluids for cleaning exhaust gas exceeds a threshold.

Fault code 3577

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

Drain valve in the exhaust gas pollutant emission control system of diesel engines above normal voltage or a short circuit in the high voltage circuit.

**Decryption:**

ECM module detects that the voltage at the drain valve for cleaning the exhaust gases outside the valid range (above normal), or an open circuit.

Fault code 3578

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

In the chain of the valve to drain the fluid exhaust from diesel engines detected low voltage signal.

**Decryption:**

ECM module detects that the voltage at the drain valve for cleaning the exhaust gases outside the valid range (below normal).

Fault code 3579

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Drain valve for exhaust of diesel engines-low current or open circuit.

**Decryption:**

Liquid injection controller for exhaust of diesel engines detect breakage in circuits valve drains for exhaust of diesel engines.

Fault code 3596

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Fluid pressure sensor in exhaust system of diesel engines fixed too low or too high for working conditions value.

**Decryption:**

Dosing unit for exhaust of diesel engines could not maintain the pressure for exhaust of diesel engines.

Fault code 3597

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Liquid injection controller for exhaust gas purification systems-TEMP update data does not conform to the norm.

**Decryption:**

ECM module determines that Exchange data over a communications channel between the ECM module and controller for the liquid injection exhaust treatment system is interrupted.

Fault code 3598

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Liquid injection controller for exhaust-diesel engines on the network received invalid data.

**Decryption:**

ECM module determines that the data passed to the ECM module in controller of injection fluids for exhaust of diesel engines, are unreadable or missing.

Fault code 3612

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Dosing unit for exhaust of diesel engines-mechanical system response does not match the rule or regulation is violated. Exhaust gas purification system with selective catalytic converter detects incomplete cycle when the power is turned off.

**Decryption:**

Liquid injection controller for exhaust of diesel engine detects incomplete purge cycle when the power is turned off.

Fault code 3616

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

Position the nozzle turbocharger with variable geometry-mechanical system response does not match the rule or regulation is violated.

**Decryption:**

ECM module has determined that the changes to the drive geometry turbocharger is in the wrong position when installing the trigger switch in the on position.

Fault code 3648

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

[truckmanualshub.com](http://truckmanualshub.com)

**Error:**

Temperature controller of injection fluids for cleaning exhaust gas data accurate, but above-average severity level.

**Decryption:**

ECM module has determined that the internal temperature of the liquid injection controller for cleaning exhaust gas limit warning.

Fault code 3651

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Temperature of the liquid in the tank cleaning system of exhaust gases of diesel engines-the exact data, but below-average severity level.

**Decryption:**

ECM module detects that the temperature of the liquid in the tank exhaust system diesel engines cannot reach a preset level.

Fault code 3679

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Dosing unit for purifying exhaust gases-the original cause is unknown. Failed to initialize the block of dosing liquids for cleaning the exhaust gases.

**Decryption:**

Dosing unit and controller for the liquid injection systems of diesel engines could not hold an initial exchange of data among themselves at the first turning the actuator switch in the on position. and could not initialize.

Fault code 3681

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

The content of nitrogen oxide sensor has detected a fault sensor circuit.

**Decryption:**

ECM module detects that the voltage sensor of oxides of nitrogen content above or below a threshold determined by calibration.

Fault code 3697

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

ECM module internal error associated with failures of the software.

**Decryption:**

ECM module encountered an error software or calibration.

Fault code 3713

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Heater relay line release liquids diesel engines-mechanical system response does not match the rule or regulation is violated.

**Decryption:**

ECM module determines that the heater circuit line release liquids diesel engines was found a short circuit in the power supply circuit from the battery.

Fault code 3726

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Nitrogen oxides content sensor at the inlet of exhaust gas purification systems-data accurate, but above-average severity level.

**Decryption:**

ECM module detects that the unit dosing for exhaust gas purification system does not provide the specified metered liquid supply.

Fault code 3735

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Support-temp regulator switch update data does not conform to the norm.

**Decryption:**

ECM module is not receiving a valid message on multiplex network attached thereto J1939 devices more than 1 second. ECM module identified the presence of breakage or short circuit in wiring harness J1939 networks.

Fault code 3736

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Unexpected state of data sharing in the communication channel between the ECM module and controller of fluid in exhaust gas treatment system for diesel engines.

**Decryption:**

ECM module is sent to the controller for the liquid injection systems for diesel engines of the unexpected message that could not be recognized.

Fault code 3738

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, QSB, ISM

**Error:**

Liquid supply for exhaust of diesel engines in the dosing unit is interrupted.

**Decryption:**

Dosing unit determines that during dispensing fluid for diesel engine exhaust after-treatment system aborted the air supply.

Fault code 3749

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Sensor signal content of nitrogen oxides at the exit of the exhaust gas cleaning systems remains constant when conditions change on the engine.

**Decryption:**

ECM module has determined that the content of nitrogen oxide sensor does not change if you change the operating conditions of the engine.

Fault code 3866

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Quality fluids for cleaning exhaust gas data accurate, but below the highest severity level.

**Decryption:**

ECM module has determined that quality fluids for cleaning exhaust gases below the critical threshold.

Fault code 3867

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Quality fluids for cleaning exhaust gas data accurate, but below-average severity level.

**Decryption:**

ECM module has determined that quality fluids for cleaning exhaust gases below the critical threshold.

Fault code 3868

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Quality fluids for cleaning exhaust gas temp update data does not conform to the norm.

**Decryption:**

ECM module has determined that quality fluids for cleaning exhaust gas-mechanical system response does not match the rule or regulation is violated.

Fault code 3876

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Fluid quality sensor for exhaust gas purification does not recognize the existence of a liquid.

**Decryption:**

ECM module has determined that quality fluids for cleaning exhaust gas-mechanical system response does not match the rule or regulation is violated.

Fault code 3877

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Fluid quality sensor for exhaust gas purification detects an internal error.

**Decryption:**

ECM module detects that the sensor quality fluids for cleaning exhaust gas-defective.  
Fault code 3878

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Fluid quality sensor for exhaust gas purification detects overheating.

**Decryption:**

ECM module has determined that fluid quality sensor for cleaning gases has overheated.  
Fault code 3879

**Engine:**

ISF 2.8, ISF 3.8, ISB, ISC ISL, ISLe, ISDe, ISM, QSM, ISX, QSX

**Error:**

Quality fluids for cleaning exhaust gas data accurate, but above the norm.

**Decryption:**

Fluid quality sensor for exhaust gas purification discovers that liquid concentration rose above a critical threshold.  
Fault code 4157

**Engine:**

ISF, ISF 2.8 3.8

**Error:**

Drain valve for exhaust gas cleaning-response of a mechanical system is missing or broken.

**Decryption:**

ECM module detects that pressure fluids for cleaning exhaust gas does not fall when the drain valve for exhaust gas purification filed the request to activate.  
Fault code 4172

**Engine:**

ISF, ISF 2.8 3.8

**Error:**

High voltage signal is detected in the air pressure sensor circuit in the metering system.

**Decryption:**

ECM module detects that the voltage in the circuit of air pressure sensor signal in liquid metering system for the purification of exhaust gases is outside the valid range (above normal)  
Fault code 4173

**Engine:**

ISF, ISF 2.8 3.8

**Error:**

Absolute pressure sensor in the air-metering system voltage below norm or a short circuit on low tension circuit. Low voltage signal is detected in the air pressure sensor circuit in the metering system.

**Decryption:**

ECM module detects that the voltage in the circuit of air pressure sensor signal in liquid metering system for the purification of exhaust gases is outside the valid range (below normal)

Fault code 4174

**Engine:**

ISF, ISF 2.8 3.8

**Error:**

Temperature sensor in liquid metering system for exhaust gas cleaning-above normal voltage or a short circuit in the high voltage circuit. In the circuit of the temperature sensor in liquid metering system for the purification of exhaust gases detected high voltage signal.

**Decryption:**

ECM module detects that the voltage in the circuit of the temperature sensor signal in liquid metering system for the purification of exhaust gases is outside the valid range (above normal).

Fault code 4175

**Engine:**

ISF, ISF 2.8 3.8

**Error:**

Temperature sensor in liquid metering system for exhaust gas purification-voltage too low or short circuit on low tension circuit. Low voltage signal is detected in the temperature sensor signal circuit in fluid metering system for the purification of exhaust gases.

**Decryption:**

ECM module detects that the voltage in the circuit of the temperature sensor signal in liquid metering system for the purification of exhaust gases is outside the valid range (below normal).

Fault code 4176

**Engine:**

ISF, ISF 2.8 3.8

**Error:**

Air valve reagent dosing systems-voltage above the norm or a short circuit in the high voltage circuit. High voltage signal is detected in the air circuit valve dosing systems.

**Decryption:**

ECM module detects that air valve chain dosing systems has shorted out the high voltage circuit.

Fault code 4177

**Engine:**

ISF, ISF 2.8 3.8

**Error:**

Air valve dosing systems for liquid for cleaning exhaust gas-mains voltage too low or short circuit on low tension circuit. Low voltage signal is detected in the air circuit valve dosing systems.

**Decryption:**

ECM module detects that air valve chain dosing systems has a short circuit on low tension circuit.

Fault code 4238

**Engine:**

ISF, ISF 2.8 3.8

**Error:**

Air pressure in the system dosing fluids for cleaning exhaust gas data accurate, but below the average level of seriousness. Metering block detected low air pressure.

**Decryption:**

ECM module detects that the air pressure in the dispensing system is out of range (below normal).

Fault code 4239

**Engine:**

ISF, ISF 2.8 3.8

**Error:**

Air pressure in the system dosing fluids for cleaning exhaust gas data accurate, but above the norm, the average level of seriousness. Metering block detected high air pressure.

**Decryption:**

ECM module detects that the air pressure in the dispensing system is out of range (above normal).

Fault code 4271

**Engine:**

ISF, ISF 2.8 3.8

**Error:**

Air valve unit dosing fluids for cleaning exhaust gas-mechanical system response does not match the rule or regulation is violated. High pressure air found in the block of dosing when refueling system, when on the air valve dosing unit signaled to close.

**Decryption:**

ECM module detects that the air pressure in the dispensing system is out of range (above normal).

<https://pdfmanual4trucks.jimdo.com/cummins-engine/cummins-engine-isf-2-8-isb-isc-isle-4isbe-6isbe-isde-ism-qsm-isx-qsx-fault-codes/>