

Cummins Truck SPN/FMI Fault Codes

Full list of Cummins Truck DTC SPN/FMI error codes in order with descriptions.

Fault Code	J1939 SPN	J1939 FMI	Lamp	J1939 SPN Description	Cummins Description	QSB 6.7	QSL 9	QSX 15	QSB 4.5	QSF 3.8	QSG12
111	629	12	Red	Controller #1	Engine Control Module Critical Internal Failure - Bad intelligent device or component	X	X	X	X	X	X
115	612	2	Red	System Diagnostic Code #2	Engine Magnetic Speed/Position Lost Both of Two Signals - Data erratic, intermittent or incorrect	X	X	X	X	X	X
122	102	3	Amber	Engine Intake Manifold #1 Pressure	Intake Manifold 1 Pressure Sensor Circuit - Voltage above normal, or shorted to high source	X	X	X	X	X	X
123	102	4	Amber	Engine Intake Manifold #1 Pressure	Intake Manifold 1 Pressure Sensor Circuit - Voltage below normal, or shorted to low source	X	X	X	X	X	X
124	102	16	Amber	Engine Intake Manifold #1 Pressure	Intake Manifold 1 Pressure - Data Valid But Above Normal Operating Range - Moderately Severe Level	X	X		X		
125	102	18	Amber	Engine Intake Manifold #1 Pressure	Intake Manifold 1 Pressure - Data Valid But Below Normal Operating Range - Moderately Severe Level			X			X
131	91	3	Red	Accelerator Pedal Position 1	Accelerator Pedal or Lever Position Sensor	X	X	X	X	X	X

Cummins Spn And Fmi Engine Codes

Yicheng Fang



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Fundamentals of Medium/Heavy Duty Commercial Vehicle Systems Owen C. Duffy, Gus Wright, 2015-07-13 Based on the 2014 National Automotive Technicians Education Foundation NATEF Medium Heavy Truck Tasks Lists and ASE Certification Test Series for truck and bus specialists Fundamentals of Medium Heavy Duty Commercial Vehicle Systems is designed to address these and other international training standards The text offers comprehensive coverage of every NATEF task with clarity and precision in a concise format that ensures student comprehension and encourages critical thinking Fundamentals of Medium Heavy Duty Commercial Vehicle Systems describes safe and effective diagnostic repair and maintenance procedures for today s medium and heavy vehicle chassis systems including the most current relevant and practical coverage of Automated transmissions Braking system technology used in vehicle stability collision avoidance and new stopping distance standards Hybrid drive powertrains Advanced battery technologies On board vehicle networks and integrated chassis electrical control system Automatic transmission drive shafts and drive axles Charging starting vehicle instrumentation and chassis electrical systems On board diagnostic systems electronic signal processing and sensor operation Steering suspension frames hitching and air conditioning systems Environmental and fuel efficiency technologies Additional features include Up to date NATEF coverage Support of ASE certification test preparation for medium heavy truck and bus test series A clear accessible writing style Reinforcement of concepts learned Application to real world practice A wealth of photographs illustrations and step by step explanations with visual summaries Fundamentals of Medium/Heavy Duty Diesel Engines Gus Wright, 2021-09-30 Preview a Sample Chapter Now Chapter 12 Diesel Fuel Properties and Characteristics View Now Thoroughly updated and expanded Fundamentals of Medium Heavy Diesel Engines Second Edition offers comprehensive coverage of basic concepts and fundamentals building up to advanced instruction on the latest technology coming to market for medium and heavy duty diesel engine systems Now organized by outcome based objectives to improve instructional clarity and adaptability in a more readable format all content seamlessly aligns with the latest ASE Medium Heavy Truck Program requirements for IMMR through MTST This industry leading Second Edition offers Complete coverage for the T2 ASE exam including starting and charging systems Unique coverage and emphasis on electronic control systems for the L2 Diesel Specialist ASE Exam Dedicated chapters on the latest technology and unique OEM equipment Examples of In Depth Coverage for Today s Technicians Electronic service tools Variable Geometry and Series Turbocharging On board networks multiplexing and HD OBD fundamentals and OEM specific Exhaust Aftertreatment Systems Particulate filters Selective Catalyst Reduction SCR and OEM systems Exhaust Gas recirculation EGR Basic Components Coolers Dual Coolers Inspecting a Cooler Mixers Valves Control System Mass Airflow Oxygen Sensor and Speed Density measurement of EGR flow Maintenance On Board Diagnostics and System Performance Checks Engine sensors Analyzing Switch and Sensor Signals VREF and Zero Volt return ZVR Pull Up and Pull Down Switches Resistive Type Sensors Three Wire Hall Effect

Sensor Throttle Sensors Pressure Sensors Mass Airflow Sensors Position Sensors Exhaust Gas Sensors Diesel Exhaust Fluid Sensors Fault Detection Principles for Sensors Three Wire Sensor Circuit Monitoring and Pinpoint Testing of Sensors Testing High Pressure Common Rail Fuel Systems Pressure Control Components Two Controller Rail Pressure Regulation On Board Diagnostics Monitoring Measuring Injector Back Leakage Measuring Total Fuel Leakage Fuel Balance Control Bosch Gen 1 4 Delphi Denso Servo hydraulic Direct Acting Piezo G3S and G4S III Siemens Continental AG Injection Rate Shaping Injection Rate and Fault Healing Model Predictive Control MPC and Rate Shape Selection Nominal Voltage Calibration Accelerometer Pilot Control Closed Loop Injector Control Fuel Leakage Rates Pressure Wave Correction Factor Zero Fuel Mass Calibration DYNAMIC TECHNOLOGY SOLUTIONS This text full aligns to CDX Online Access for Medium Heavy Duty Truck Online training program With an easy to use interface and seamless integration with this resource the online learning system reinforces and extends the learning topics from two dimensional paper to interactive e learning Online resources include Thousands of images and digital media assets such as animations and videos Updated tasksheets aligned to the latest ASE Education Foundation standards Mobile ready course materials Audiobook and eBook versions of this text 2023 1400 pages

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