

CATERPILLAR ACERT ENGINE DIAGNOSTIC CODES

1	INTRODUCTION	1
2	TROUBLESHOOTING CODES	1

1 INTRODUCTION.

2 TROUBLESHOOTING CODES.

This group provides information on the engine fault codes that could potentially appear on the LCD display at the center of your electronic dash when using the Engine Diagnostics Menu feature. Refer to Chapter 59-104 in your service or operator manual for instructions on reading and clearing fault codes. These codes can be used to help isolate the problem area in your engine. Refer to the appropriate Caterpillar Troubleshooting Manual or contact your Caterpillar dealer for additional information on isolating and repairing potential or existing problems.

<i>J1939 SPN</i>	<i>J1939 FMI</i>	<i>DIAGNOSTIC CODE DESCRIPTION</i>	<i>FLASH CODE</i>
651	1-05	CYLINDER #1 INJECTOR CURRENT LOW	72
651	1-06	CYLINDER #1 INJECTOR CURRENT HIGH	72
652	2-05	CYLINDER #2 INJECTOR CURRENT LOW	72
652	2-05	CYLINDER #2 INJECTOR CURRENT HIGH	72
653	3-05	CYLINDER #3 INJECTOR CURRENT LOW	73
653	3-06	CYLINDER #3 INJECTOR CURRENT HIGH	73
654	4-05	CYLINDER #4 INJECTOR CURRENT LOW	73
654	4-06	CYLINDER #4 INJECTOR CURRENT HIGH	73
655	5-05	CYLINDER #5 INJECTOR CURRENT LOW	74
655	5-06	CYLINDER #5 INJECTOR CURRENT HIGH	74
656	6-05	CYLINDER #6 INJECTOR CURRENT LOW	74
656	6-06	CYLINDER #6 INJECTOR CURRENT HIGH	74
637	22-11	PRIMARY TO SECONDARY ENGINE SPEED SIGNAL CALIBRATION	42
637	22-13	ENGINE SPEED SIGNAL CALIBRATION NOT PERFORMED	42
644	30-08	PTO THROTTLE SIGNAL INVALID	29
644	30-13	PTO THROTTLE SIGNAL CALIBRATION	29
678	41-03	8 VOLT SUPPLY ABOVE NORMAL	21
678	41-04	8 VOLT SUPPLY BELOW NORMAL	21
158	43-02	IGNITION KEY SWITCH FAULT	71
XX	52-11	INLET AIR SHUTOFF SHUTDOWN	00
706	54-05	AUXILIARY OUTPUT #06 CURRENT LOW	66

J1939 Fmi Code List

Gus Wright

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the 'Gus Wright' text.

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Data Acquisition from HD Vehicles Using J1939 CAN Bus Richard Walter, Eric Walter, 2016-07-14 Modern vehicles have electronic control units ECUs to control various subsystems such as the engine brakes steering air conditioning and infotainment These ECUs or simply controllers are networked together to share information and output directly measured and calculated data to each other This in vehicle network is a data goldmine for improved maintenance measuring vehicle performance and its subsystems fleet management warranty and legal issues reliability durability and accident reconstruction The focus of Data Acquisition from HD Vehicles Using J1939 CAN Bus is to guide the reader on how to acquire and correctly interpret data from the in vehicle network of heavy duty HD vehicles The reader will learn how to convert messages to scaled engineering parameters and how to determine the available parameters on HD vehicles along with their accuracy and update rate Written by two specialists in this field Richard Rick P Walter and Eric P Walter principals at HEM Data located in the United States the book provides a unique road map for the data acquisition user The authors give a clear and concise description of the CAN protocol plus a review of all 19 parts of the SAE International J1939 standard family Pertinent standards are illuminated with tables graphs and examples Practical applications covered are calculating fuel economy duty cycle analysis and capturing intermittent faults A comparison is made of various diagnostic approaches including OBD II HD OBD and World Wide Harmonized WWH OBD Data Acquisition from HD Vehicles Using J1939 CAN Bus is a must have reference for those interested to acquire data effectively from the SAE J1939 equipped vehicles

Fundamentals of Medium/Heavy Duty Diesel Engines Gus Wright, 2021-09-30 Fundamentals of Medium Heavy Duty Diesel Engines Second Edition offers comprehensive coverage of every ASE task with clarity and precision in a concise format that ensures student comprehension and encourages critical thinking This edition describes safe and effective diagnostic repair and maintenance procedures for today s medium and heavy vehicle diesel engines **Fundamentals of Mobile Heavy Equipment** Owen C. Duffy, Gus Wright, Scott A. Heard, 2017-09-27 Fundamentals of Mobile Heavy Equipment provides students with a thorough introduction to the diagnosis repair and maintenance of off road mobile heavy equipment With comprehensive up to date coverage of the latest technology in the field it addresses the equipment used in construction agricultural forestry and mining industries **Fundamentals of Medium/Heavy Duty Commercial Vehicle Systems** Gus Wright, Owen C. Duffy, 2019-07-15 Fundamentals of Medium Heavy Duty Commercial Vehicle Systems 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 trucks and buses This industry leading Second Edition includes six new chapters that reflect state of the art technological innovations such as distributed electronic control systems energy saving technologies and automated driver assistance systems Diesel Engine and Fuel System Repair John F. Dagel, Robert N. Brady, 1998 One of the only texts of its kind to devote chapters to the intricacies of electrical equipment in diesel engine and

fuel system repair this cutting edge manual incorporates the latest in diesel engine technology giving students a solid introduction to the technology operation and overhaul of heavy duty diesel engines and their respective fuel and electronics systems

Application Layer--Diagnostics Truck Bus Control and Communications Network Committee,2006 The SAE J1939 series of recommended practices are intended for light and heavy duty vehicle uses on or off road as well as appropriate stationary applications which use vehicle derived components e g generator sets Vehicles of interest include but are not limited to on and off highway trucks and their trailers construction equipment and agriculture equipment and implements The purpose of these documents is to provide an open interconnect system for on board electronic systems It is the intention of these documents to allow electronic devices to communicate with each other by providing a standard architecture J1939 73 identifies the diagnostic connector to be used for the vehicle service tool interface and defines messages to accomplish diagnostic services California regulated OBD II requirements are satisfied with a subset of the specified connector and the defined messages Diagnostic messages DMs provide the utility needed when the vehicle is being repaired Diagnostic messages are also used during vehicle operation by the networked electronic control modules to allow them to report diagnostic information and self compensate as appropriate based on information received Diagnostic messages include services such as periodically broadcasting active diagnostic trouble codes identifying operator diagnostic lamp status reading or clearing diagnostic trouble codes reading or writing control module memory providing a security function stopping starting message broadcasts reporting diagnostic readiness monitoring engine parametric data etc This SAE Recommended Practice has been updated to support manufacturers new requirements and new On Board Diagnostic OBD regulatory requirements for light duty medium duty and heavy duty vehicles These cover the needs of US EPA US CARB EU and World Wide Harmonization of OBD The following updates made APPENDIX G listing non OBD fault management narratives DM22 Individual Clear Reset of Active and Previously Active DTC DM23 Previously Active Emission Related Faults DM24 SPN Support DM25 Expanded Freeze Frame and DM26 Diagnostic Readiness 3 a revised definition for DM6 and updates to the DM1 for lamp flashing and a fixed 1 second update rate DM27 All Pending DTCs DM28 Permanent DTCs DM29 Regulated DTC Counts DM30 Scaled Test Results DM31 DTC to Lamp Association DM32 through DM52 and the addition of 2 new FMIs FMI 20 Data Drifted High and FMI21 Data Drifted Low

J1939 Digital Annex Truck Bus Control and Communications Network Committee,2015 This document is intended to supplement the J1939 documents by offering the J1939 information in a form that can be sorted and search for easier use The J1939 Digital Annex introduced in August 2013 offers key J1939 technical data in an Electronic Spreadsheet that can be easily searched sorted and adapted to other formats J1939DA contains all of the SPNs parameters PGNs messages and other J1939 data previously published in the SAE J1939 top level document J1939DA also contains all of the SLOTS Manufacturer ID Codes NAME Functions and Preferred Addresses previously published in the SAE J1939 top level and the J1939 71 document J1939DA contains the complete

technical details for all of the SPNs and PGNs previously published in the SAE J1939 71 document It also includes the supporting descriptions and figures previously published in the SAE J1939 71 document For other SPNs and PGNs which are published in a document other than SAE J1939 71 J1939DA lists only basic details along with a reference to the document that contains the complete technical details J1939DA replaces and expands upon the J1939 Companion Spreadsheet CS1939 which was last published through November 2012 The data fields included in J1939DA for PGNs are PGN Parameter Group Label Acronym EDP DP PF PGN Length PS PGN Description Multipacket Transmission Rate PGN Data Length Default Priority PGN Reference PGN Document The data fields included in J1939DA for SPNs are SPN SPN Name SPN Description SPN Length Resolution Offset Data Range Operational Range Units SLOT Identifier SPN Type SPN Reference SPN Document The J1939 Digital Annex is current through Third Quarter 2015 and can be purchased separately or as part of the SAE J1939 Standards Collection on the Web <http://www.sae.org/standardsdev/groundvehicle/j1939.htm> This revision of the J1939 Digital Annex covers parameters approved thru the November 2015 4Q2015 meeting

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Table of Contents J1939 Fmi Code List

1. Understanding the eBook J1939 Fmi Code List
 - The Rise of Digital Reading J1939 Fmi Code List
 - Advantages of eBooks Over Traditional Books
2. Identifying J1939 Fmi Code List
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an J1939 Fmi Code List
 - User-Friendly Interface
4. Exploring eBook Recommendations from J1939 Fmi Code List
 - Personalized Recommendations
 - J1939 Fmi Code List User Reviews and Ratings
 - J1939 Fmi Code List and Bestseller Lists
5. Accessing J1939 Fmi Code List Free and Paid eBooks
 - J1939 Fmi Code List Public Domain eBooks
 - J1939 Fmi Code List eBook Subscription Services

-
- J1939 Fmi Code List Budget-Friendly Options
6. Navigating J1939 Fmi Code List eBook Formats
 - ePub, PDF, MOBI, and More
 - J1939 Fmi Code List Compatibility with Devices
 - J1939 Fmi Code List Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of J1939 Fmi Code List
 - Highlighting and Note-Taking J1939 Fmi Code List
 - Interactive Elements J1939 Fmi Code List
 8. Staying Engaged with J1939 Fmi Code List
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers J1939 Fmi Code List
 9. Balancing eBooks and Physical Books J1939 Fmi Code List
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection J1939 Fmi Code List
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine J1939 Fmi Code List
 - Setting Reading Goals J1939 Fmi Code List
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of J1939 Fmi Code List
 - Fact-Checking eBook Content of J1939 Fmi Code List
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends

-
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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