

List of Diagnostic Trouble Codes

J1939 Code	J1939 Code Description	Troubleshooting Procedure	ATA Code
	Diagnostics Exist that Require J1939 Service Tool Connection	This code indicates that Cat ET is not communicating on the J1939 data link. Cat ET must be communicating on the J1939 data.	154-14
38-3	Second Fuel Level : Voltage Above Normal	Troubleshooting "Fuel Level - Test"	38-3
38-4	Second Fuel Level : Voltage Below Normal	Troubleshooting "Fuel Level - Test"	38-4
69-9	Two Speed Axle Switch : Abnormal Update Rate	Troubleshooting "Customer Device - Test"	231-12
69-19	Two Speed Axle Switch : Data Error	Troubleshooting "Customer Device - Test"	231-12
70-9	Parking Brake Switch : Abnormal Update Rate	Troubleshooting "Customer Device - Test"	231-12
70-19	Parking Brake Switch : Data Error	Troubleshooting "Customer Device - Test"	231-12
71-14	PTO Idle Shutdown Occurrence	The engine idle shutdown timer has shut down the engine. Clear the code. No troubleshooting is required.	71-14
84-0	Wheel-Based Vehicle Speed : High - Most Severe (3)	Troubleshooting "Vehicle Overspeeds"	84-0
84-2	Wheel-Based Vehicle Speed : Erratic, Intermittent, or Incorrect	Troubleshooting "Vehicle Speed - Test"	84-2
84-8	Wheel-Based Vehicle Speed : Abnormal Frequency, Pulse Width, or Period	Troubleshooting "Vehicle Speed - Test"	84-8
84-10	Wheel-Based Vehicle Speed : Abnormal Rate of Change	Troubleshooting "Vehicle Speed - Test"	84-10
84-14	Wheel-Based Vehicle Speed : Special Instruction	Troubleshooting "Quick Stop Occurrence"	84-14
84-19	Wheel-Based Vehicle Speed : Data Error	Troubleshooting "Vehicle Speed - Test"	84-2
91-8	Accelerator Pedal Position 1 : Abnormal Frequency, Pulse Width, or Period	Troubleshooting "Sensor Signal (PWM) - Test"	91-8
91-13	Accelerator Pedal Position 1 : Calibration Required	Troubleshooting "Sensor Signal (PWM) - Test"	91-13
96-3	Fuel Level : Voltage Above Normal	Troubleshooting "Fuel Level - Test"	96-3

J1939 Fault Code List

**Truck Bus Control and
Communications Network Committee**

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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

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 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

Connectivity and the Mobility Industry Andrew Brown, 2011-10-24 Bound to play an ever increasing role in the driver vehicle relationship connectivity is becoming a basic consumer requirement when it comes to choosing a vehicle Moving from the computer into the car the ability to stay in touch informed and entertained has reached yet a higher level of technology ubiquity Featuring 20 SAE technical papers published in 2010 and 2011 Connectivity and the Mobility Industry addresses important aspects of one of the most cutting edge topics in the industry today Edited by Dr Andrew Brown Jr 2010 SAE International President and Chief Technologist for Delphi Corporation this book also includes three original articles on the subject written by various experts What to Expect Beyond 2015 Fourth

Generation Wireless and the Vehicle The Evolution of the Driving Experience and Associated Technologies Wireless Charging of Electric Vehicle Converged with Communication Technology Part of the new paradigm of green safe and connected this title is of special interest to those looking for an integrated view of how the driving experience will develop within these boundaries and what emerging technologies are likely to be successful in the upcoming years This book is the third in the trilogy from SAE on Safe Green and Connected vehicles in the mobility industry edited by Dr Andrew Brown Jr The other two books in this trilogy are Green Technologies and the Mobility Industry Active Safety and the Mobility Industry Buy a Combination of Books and Save This trilogy can be purchased in a combination of two books as follows Green Technologies and Active Safety in the Mobility Industry Green Technologies and Connectivity in the Mobility Industry Active Safety and Connectivity in the Mobility Industry Buy the Entire 3 Book Set and Save the Most Green Safe Connected The Future of Mobility *Fundamentals of Medium/Heavy Duty Commercial Vehicle Systems* Gus Wright,Owen C. Duffy,2019-07

Thoroughly updated and expanded Fundamentals of Medium Heavy Duty Commercial Vehicle Systems Second Edition offers comprehensive coverage of basic concepts building up to advanced instruction on the latest technology including distributed electronic control systems energy saving technologies and automated driver assistance systems Now organized by outcome based objectives to improve instructional clarity and adaptability and presented in a more readable format all content

seamlessly aligns with the latest ASE Medium Heavy Truck Program requirements for MTST Back cover **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 **Modern Diesel Technology** Robert N. Brady,1996 Through a

carefully maintained building block approach this text offers an easy to understand guide to automotive truck and heavy equipment diesel engine technology in a single comprehensive volume Text focus is on state of the art technology as well as on the fundamental principles underlying today s technological advances in service and repair procedures Industry accepted practices are identified and readers are encouraged to formulate a sound understanding of both the why and the how of modern diesel engines and equipment Thorough up to date treatment of diesel technology encompasses major advancements in the field especially recent developments in the use of electronics in heavy duty trucks off highway equipment and marine applications The text s primary focus is on state of the art electronic fuel injection systems such as those being used by such manufacturers as Caterpillar Cummins Detroit Diesel Volvo and Mack A systematic structured organization helps readers learn step by step beginning with engine systems and working logically through intake exhaust cooling lubrication and fuel injection systems highlighting major changes in today s modern engines **Heavy-duty On-road Vehicle Inspection and**

Maintenance Program Thomas D. Durbin,2019 *Transportation Research Record* ,1996 *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

Diagnostic Trouble Code Definitions Vehicle E E System Diagnostic Standards Committee, 2013 This document supersedes SAE J2012 DEC2007 and is technically equivalent to ISO 15031 6 2010 with the exceptions described in Section 1 2 This document is intended to define the standardized Diagnostic Trouble Codes DTC that On Board Diagnostic OBD systems in vehicles are required to report when malfunctions are detected SAE J2012 may also be used for decoding of enhanced diagnostic DTCs and specifies the ranges reserved for vehicle manufacturer specific usage This document includes aDiagnostic Trouble Code format bA description of the standardized set of Diagnostic Trouble Codes and descriptions contained in SAE J2012 DA The two most significant bytes of a DTC may be decoded according to two different lists DTC Format Identifier 0x00 and 0x04 cA description of the standardized set of Diagnostic Trouble Codes subtypes known as Failure Types contained in SAE J2012 DA applies only when three byte DTCs are used SAE J2012 is being republished with

no appendices to complement the SAE J2012 DA document that is now available The prior version of SAE J2012 was technically equivalent to ISO 15031 6 2005 The ISO document was subsequently edited and published as an International Standard ISO 15031 6 2010 including minor editorial changes This version of SAE J2012 includes all of the editorial changes that were included in the published version of the ISO document This version is updated to include the latest standardized fault structures application information and references to SAE J2012 DA In this update the standardized DTC and FTB lists are published only in SAE J2012 DA

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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