

# J1939 Fault Code Interpretation

- DM1 message
  - 8 bytes of data are arranged as follows:

Byte 1:	bits 8-7	Malfunction Indicator Lamp Status
	bits 6-5	Red Stop Lamp Status
	bits 4-3	Amber Warning Lamp Status
	bits 2-1	Protect Lamp Status

Each lamp takes two bits to indicate lamp state

00 - lamp is OFF

01 - lamp is ON



# J1939 Fault Code List

**Clemens Wendtner**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

## **J1939 Fault Code List:**

**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 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 **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 *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 **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

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

**2005 Diagnostic Trouble Codes-Imported Vehicles 1992-2004** Autodata, 2005-04 Model year coverage for the Import DTC manual is 1992-2004 The manual features domestic diagnostic trouble codes and lists the probable cause of each code The manual provides MIL Codes OBD Codes and Fault locations Code retrieval techniques are described using concise text and clear illustrations in separate sections for each model Instructions for retrieval and erasure of trouble codes are provided as well as data link connector locations All data is based on OEM information

**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

## Whispering the Strategies of Language: An Psychological Quest through **J1939 Fault Code List**

In a digitally-driven world wherever displays reign great and quick connection drowns out the subtleties of language, the profound secrets and mental nuances concealed within words frequently go unheard. However, set within the pages of **J1939 Fault Code List** a interesting literary value pulsating with fresh thoughts, lies a fantastic quest waiting to be undertaken. Penned by a skilled wordsmith, that wonderful opus invites visitors on an introspective trip, lightly unraveling the veiled truths and profound affect resonating within ab muscles fabric of every word. Within the emotional depths of the touching evaluation, we will embark upon a heartfelt exploration of the book is core themes, dissect their captivating publishing fashion, and succumb to the powerful resonance it evokes heavy within the recesses of readers hearts.

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