

4. GENERAL SPECIFICATIONS

The following table specifies systems, code categories, hexadecimal values and particular sections of electrical/electronic systems diagnostic.

TABLE 1 - GENERAL CODE SPECIFICATIONS

System	Code Categories	Hex Value	Appendix
Body	B0xxx - B3xxx	8xxx - Bxxx	B0
Chassis	C0xxx - C3xxx	4xxx - 7xxx	C0
Powertrain	P0xxx - P3xxx	0xxx - 3xxx	P0
Network	U0xxx - U3xxx	Cxxx - Fxxx	U0

The recommended DTCs consist of a three digit hexadecimal code preceded by an alphanumeric designator. The alphanumeric designators are "B0", "B1", "B2", "B3", "C0", "C1", "C2", "C3", "P0", "P1", "P2", "P3", "U0", "U1", "U2", "U3", corresponding to four sets of body, four sets of chassis, four sets of powertrain and four sets of network trouble codes. The code structure itself is partially open-ended. A portion of the available numeric sequences (portions of "B0", "C0", "P0", "P2", "P3", "U0", and "U3") is reserved for uniform codes assigned by this or future updates. Detailed specifications of the DTC format structure are specified in Section 5.

Most circuit, component, or system diagnostic trouble codes that do not support a subfault strategy are specified by four basic categories:

- General Circuit Open
- Range/Performance
- Circuit Low
- Circuit High

Circuit Low is measured with the external circuit, component, or system connected. The signal type (voltage, frequency, etc.) shall be included in the message after Circuit Low.

Circuit High is measured with the external circuit, component, or system connected. The signal type (voltage, frequency, etc.) may be included in the message after Circuit High.

5. FORMAT STRUCTURE

5.1 Description

The diagnostic trouble code consists of an alphanumeric designator, B0 – B3 for body, C0 – C3 for chassis, P0 – P3 for powertrain, and U0 – U3 for network communication, followed by a hexadecimal number. The assignment of the proper alpha designator should be determined by the area most appropriate for that function. In most cases, the alpha designator will be implied since diagnostic information will be requested from a particular controller. However, this does not imply that all codes supported by a particular controller shall have the same alphanumeric designator. The codes are structured as in Figure 1.

Sae J2012 Diagnostic Trouble Code Definitions

Michal Rosen-Zvi



Sae J2012 Diagnostic Trouble Code Definitions:

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

Code of Federal Regulations,2008 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries **Federal Register**,2012-10 Code of Federal Regulations Office of the Federal Register (U.S.) Staff,U S Office of the Federal Register,2011-10-17 **Code of Federal Regulations, Title 40, Protection of Environment, Pt. 86 (Sec. 86.600-1-End), Revised as of July 1, 2006**,2006-10-24 The Code of Federal Regulations is a codification of the general and permanent rules published in the Federal Register by the Executive departments and agencies of the United States Federal Government **Protection of Environment**,2009-10-27 *Code of Federal Regulations, Title 40, Protection of Environment, Pt. 81-85, Revised as of July 1, 2006*,2006-09-15 The Code of Federal Regulations is a codification of the general and permanent rules published in the Federal Register by the Executive departments and agencies of the United States Federal Government *CODE OF FEDERAL REGULATIONS.*,2010 **Code of Federal Regulations 2007**,2007-10 The Code of Federal Regulations is a codification of the general and permanent rules published in the Federal Register by the Executive departments and agencies of the United States Federal Government *Documents*,1996 *Official Journal of the European Communities*,1997 Automotive Electronics Handbook Ronald K. Jurgen,1999 This second edition of the widely sold title contains new and updated chapters on areas such as safety features It also includes new sections on adding electronic intelligence to automotive features California Regulatory Notice Register,1994

Digital Annex of Diagnostic Trouble Code Definitions and Failure Type Byte Definitions Vehicle E E System Diagnostic Standards Committee,2016 The J2012 Digital Annex of Diagnostic Trouble Code Definitions Spreadsheet provides DTC information in an excel format for use in your organization's work processes The column headings include the same information as contained in the J2012 standard Information in the excel spreadsheet will be updated several times annually and the spreadsheet includes a column heading denoting which DTC have been updated in the current version The SAE J2012 task force has added hundreds of new DTCs based on advancing technology in ground vehicles

New Jersey Register,2009 **Automotive Computer Systems: Shop manual** Don Knowles,Jack Erjavec,1996 *Vehicle Electronics to Digital Mobility* ,2004 **Diagnostic Trouble Code Definitions Equivalent to ISO/DIS 15031-6:April 30, 2002** Vehicle E E System Diagnostic Standards Committee,2002 This SAE Recommended Practice supersedes SAE J2012 MAR1999 and is technically equivalent to ISO DIS 15031 6 April 30 2002 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 Diagnostic Trouble Code format A standardized set of Diagnostic Trouble Codes and descriptions Differences from ISO Document b There are no technical differences between this document and ISO DIS 15031 6 April 30 2002 Code of Federal Regulations ,2001 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries *Drucksache* ,1997

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