

(R) Diagnostic Trouble Code Definitions

RATIONALE

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.

FOREWORD

On-Board Diagnostic (OBD) regulations require passenger cars, and light and medium duty trucks, to report standardized fault codes for malfunctions detected by the OBD system. This document with J2012-DA defines the standardized set of fault codes.

SAE J2012 was originally developed to meet U.S. OBD requirements for 1996 and later model year vehicles. ISO 15031-6 was based on SAE J2012 and was intended to meet European OBD requirements for 2000 and later model year vehicles. This document is technically equivalent to ISO 15031-6, with new and revised fault codes included.

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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

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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 *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 **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 **New Jersey Register**, 2009 **Automotive Computer Systems: Shop manual** Don Knowles, Jack Erjavec, 1996 **Vehicle Electronics to Digital Mobility**, 2004 *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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