

SURFACE VEHICLE RECOMMENDED PRACTICE

J2012™

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Diagnostic Trouble Code Definitions

RATIONALE

As DTC usage has increased with the introduction of new technology to vehicle systems (hybrid, diesel, etc.) it has become necessary to restructure the document to accommodate these changes. This restructuring includes the removal of Table Titles, and DTCs will no longer be grouped by functional areas. Also being updated are the usage notes to provide further guidance in the usage of DTCs with the new technology (i.e., smart sensors and actuators).

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 SAE J2012DA 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.

TABLE OF CONTENTS

1.	SCOPE.....	2
1.1	Purpose.....	2
1.2	Differences from ISO Document.....	3
2.	REFERENCES.....	3
2.1	Applicable Documents.....	3
3.	DEFINITIONS.....	6
4.	GENERAL SPECIFICATIONS.....	7
5.	FORMAT STRUCTURE.....	7
5.1	Description.....	7
5.2	ISO/SAE Controlled Codes (Core DTCs).....	9
5.3	Manufacturer Controlled Codes (Non-Uniform DTCs).....	9
5.4	Body System Groupings.....	10
5.5	Chassis System Groupings.....	10
5.6	Powertrain System Groupings.....	10
5.7	Network and Vehicle Integration Groupings.....	10

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Bussysteme in der Fahrzeugtechnik Werner Zimmermann, Ralf Schmidgall, 2014-07-08 Dieses Fachbuch gibt einen Überblick über die in der Kfz Elektronik verbreiteten Bussysteme wie CAN FlexRay LIN oder MOST deren Protokolle und die Softwarearchitektur moderner Steuergeräte. Die Beschreibung erfolgt aus der Sicht von Ingenieuren die diese Systeme in der Praxis einsetzen und in Fahrzeuge integrieren müssen. Ausführlich wird auf die höheren Schichten der ISO SAE und ASAM Transport und Diagnoseprotokolle sowie deren Anwendung eingegangen. Neben der Kommunikation wird die Softwarearchitektur der Steuergeräte mit Betriebssystem und Basissoftware vorgestellt wie sie im Rahmen von AUTOSAR OSEK VDX und HIS definiert werden. Neu in dieser Auflage wurden CAN FD Automotive Ethernet OTX und WWH OBD aufgenommen.

Code of Federal Regulations, 2000 **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 a Diagnostic 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 Miriam E. Conteh-Morgan, 2004 Special edition of the Federal register containing a codification of documents of general applicability and future effect as of July 1 with ancillaries.

The Code of Federal Regulations of the United States of America, 2003 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government.

L.S.A., List of C.F.R. Sections Affected, 2004 *Code of Federal Regulations, Title 40, Protection of Environment, Pt. Pt. 85-86 (Sec. 86.600-1 to End), Revised as of July 1, 2011* U. s. Government Printing Office, 2011-11-16 Code of Federal Regulations, Title 40, Protection of Environment, Pt. Pt. 85-86 (Sec. 86.599-99), Revised as of July 1, 2009, 2009-10-27 **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 *CAN System Engineering* Wolfhard Lawrenz,2013-12-05 This book addresses the various challenges and open questions relating to CAN communication networks Opening with a short introduction into the fundamentals of CAN the book then examines the problems and solutions for the physical layout of networks including EMC issues and topology layout Additionally a discussion of quality issues with a particular focus on test techniques is presented Each chapter features a collection of illuminating insights and detailed technical information supplied by a selection of internationally regarded experts from industry and academia Features presents thorough coverage of architectures implementations and application of CAN transceiver data link layer and so called higher layer software explains CAN EMC characteristics and countermeasures as well as how to design CAN networks demonstrates how to practically apply and test CAN systems includes examples of real networks from diverse applications in automotive engineering avionics and home heating technology **Code of Federal Regulations** Office of the Federal Register (U.S.),U. s. Government Printing Office,2011-10-17 *Methode zur Reifegradsteigerung mittels Fehlerkategorisierung von Diagnoseinformationen in der Fahrzeugentwicklung* Barbara Krausz,2018-10-08 Barbara Krausz stellt eine Methode vor mit welcher der Reifegrad in der Fahrzeugentwicklung mittels Fehlerkategorisierung von Diagnoseinformationen gesteigert werden kann Dazu ordnet sie gel ste Fehlerf lle bzw Fehlerspeichereintr ge zuvor definierten Ursachenkategorien zu Die Kategorien w hlt die Autorin hierbei so dass eine Unterscheidung zwischen entwicklungsspezifischen und serienrelevanten Ursachen m glich ist Sie trainiert einen geeigneten Klassifikator mit den gel sten Trainingsf llen und ordnet die F lle anhand der hnlichkeit der Fehlerumgebungsdaten den entsprechenden Ursachenkategorien zu Mit dieser Methode wird die Fehleranalyse in der Fahrzeugentwicklung beschleunigt und der Reifegrad der Diagnose bereits vor dem SOP Start of Production erh ht Die Autorin Barbara Krausz ist bei einem gro en deutschen Automobilhersteller als Entwicklungsingenieurin in der Powertrain Entwicklung f r PKW t tig Sie promovierte am Institut f r Verbrennungsmotoren und Kraftfahrwesen IVK der Universit t Stuttgart **Title 40 Protection of Environment Part 86 (§ 86.600-1 to end of part 86) (Revised as of July 1, 2013)** Office of The Federal Register, Enhanced by IntraWEB, LLC,2014-07-01 40 CFR Protection of Environment Code of Federal Regulations, Title 40, Protection of Environment, PT. 85-86 (SEC. 86.599-99), Revised as of July 1, 2010,2010-10-07 Verfahren zur Feststellung der Sicherheit von vernetzten, elektronischen Systemen im Kraftfahrzeug Michael Grimm,2007 Elektronik in der Fahrzeugtechnik Kai Borgeest,2023-09-22 Das Buch vermittelt die Grundlagen um die Besonderheiten der Elektronik und Software im Kfz nicht nur zu kennen sondern auch zu verstehen Zus tzlich wird an Beispielen die Komplexit t realer Systeme im Fahrzeug vorgef hrt und gezeigt welche Anwendungen durch die Elektronik erst m glich werden Das Spannungsfeld zwischen Sicherheit Zuverl ssigkeit und Komplexit t pr gt in Verbindung mit branchen blichen Abl ufen das Vorgehen bei der Entwicklung das ein in diesem Bereich t tiger Ingenieur verstehen muss

Title 40 Protection of Environment Part 85 to § 86.599-99 (Revised as of July 1, 2013) Office of The Federal Register, Enhanced by IntraWEB, LLC, 2014-07-01 40 CFR Protection of Environment Official Journal of the European Communities ,1997 *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

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Table of Contents Sae J2012 Diagnostic Trouble Code Definitions

1. Understanding the eBook Sae J2012 Diagnostic Trouble Code Definitions
 - The Rise of Digital Reading Sae J2012 Diagnostic Trouble Code Definitions
 - Advantages of eBooks Over Traditional Books
2. Identifying Sae J2012 Diagnostic Trouble Code Definitions
 - 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 Sae J2012 Diagnostic Trouble Code Definitions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sae J2012 Diagnostic Trouble Code Definitions
 - Personalized Recommendations
 - Sae J2012 Diagnostic Trouble Code Definitions User Reviews and Ratings
 - Sae J2012 Diagnostic Trouble Code Definitions and Bestseller Lists

5. Accessing Sae J2012 Diagnostic Trouble Code Definitions Free and Paid eBooks
 - Sae J2012 Diagnostic Trouble Code Definitions Public Domain eBooks
 - Sae J2012 Diagnostic Trouble Code Definitions eBook Subscription Services
 - Sae J2012 Diagnostic Trouble Code Definitions Budget-Friendly Options
6. Navigating Sae J2012 Diagnostic Trouble Code Definitions eBook Formats
 - ePub, PDF, MOBI, and More
 - Sae J2012 Diagnostic Trouble Code Definitions Compatibility with Devices
 - Sae J2012 Diagnostic Trouble Code Definitions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sae J2012 Diagnostic Trouble Code Definitions
 - Highlighting and Note-Taking Sae J2012 Diagnostic Trouble Code Definitions
 - Interactive Elements Sae J2012 Diagnostic Trouble Code Definitions
8. Staying Engaged with Sae J2012 Diagnostic Trouble Code Definitions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sae J2012 Diagnostic Trouble Code Definitions
9. Balancing eBooks and Physical Books Sae J2012 Diagnostic Trouble Code Definitions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sae J2012 Diagnostic Trouble Code Definitions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Sae J2012 Diagnostic Trouble Code Definitions
 - Setting Reading Goals Sae J2012 Diagnostic Trouble Code Definitions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Sae J2012 Diagnostic Trouble Code Definitions
 - Fact-Checking eBook Content of Sae J2012 Diagnostic Trouble Code Definitions
 - 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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web 1 mayıs 2016 tarihinde eklendi pek çok başarılı romantik komedi ve aile filmine imza atan rob reiner in son dönem eserlerinden biri flipped 1960 lı yılların başında güzel bir banliyöde geçiyor film

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web from that day forward he callan mcauliffe tries hard to keep brash and unpredictable juli madeline carroll at bay after six years she begins to feel that she was wrong about him being the

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web academy award nominated filmmaker rob reiner the princess bride when harry met sally returns to the romantic comedy in good form in this witty wild and

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web aradan geçen altı yıl boyunca juli ve bryce için işler daha da zorlaşır karşı evlerde oturan ve aynı okula devam eden julie ve bryce artık ergenlik çağına girmişlerdir zaman zaman birbirlerinden uzaklaşırlar da aralarında hala bir bağ vardır türkçe altyazı film bilgi sayfası imdb 7 7 94517 oy pg süre 89

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web İlk aşk film konusu bryce ve julie ikinci sınıfta tanışmıştır küçük juli bryce ın hayatına girmesi ile ilk aşkını da tatmış olur ancak durum bryce için aynı değildir kızlardan korkan utangaç ve sıkılgan bryce her ne kadar juli yi kaybetmek istemese de kızın ısrarı ve hayır cevabını kabul etmemesi

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web flipped 2010 maturity rating 7 1h 29m comedies juli thinks bryce is the love of her life bryce thinks juli is annoying but when juli finally moves on bryce realizes he might ve been wrong starring madeline carroll callan mcauliffe rebecca de mornay watch all you want join now

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web flipped yakışıklı ceo qi kun gao han yu büyülmüş bir aileden geliyor ve ışınlanmanın gizli gücüne sahip kız kardeşi qi tian lin yu rou ise geleceği görebilir hastanedeyken qi tian erkek kardeşinin bir ressamı aşık olacağına dair bir önseziye sahiptir aynı gün qi kun kendini bir binaya ışınlar

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web imdb puanı 7 7 10 İlk aşk izle 2010 flipped İlk aşk türkçe dublaj ve altyazılı izle flipped İlk aşk 1080p full hd görüntü kalitesiyle burada sizlerle karşı evlerde oturan julie ve bryce 2 sınıfta tanışmışlardır

İlk aşk flipped 2010 turkcealtyazi org türkçe altyazı - Jan 09 2023

web aug 6 2010 bryce ve julie ikinci sınıfta tanışmıştır küçük juli bryce ın hayatına girmesi ile ilk aşkını da tatmış olur ancak durum bryce için aynı değildir

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web flipped with will forte kaitlin olson luis moncada ramon camacho chronically underemployed couple jann and cricket melfi who are self proclaimed home renovation experts are more than confident they are television s next great home design celebrity duo then they find hidden cartel money

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web flipped 1080p full hd izle flipped full izle flipped türkçe altyazılı izle

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web flipped may refer to flipped novel a young adult novel by wendelin van draanen flipped tv series an american comedy series flipped 2010 film an american romantic comedy drama film based on the novel flipped 2015 film a thriller film

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web watch flipped 2010 full hd online free streaming when juli meets bryce in the second grade she knows it s true love after spending six years trying to convince bryce the same she s ready to give up

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web sep 10 2010 flipped directed by rob reiner with madeline carroll callan mcauliffe rebecca de mornay anthony edwards two eighth graders start to have feelings for each other despite being total opposites