

Examples of OEM Database Malfunctions with “Diagnostic Trouble Codes” (DTC) and “Data Link Connector” (DLC) noted on “Technical Service Bulletins” (TDB) from the National OBD Clearinghouse shown below.

Please note these are not all emission related but demonstrate the many complex issues and potential errors related to check engine lights and other systems.

Welcome to the National OBD Clearinghouse

To facilitate better understanding of On-Board Diagnostics (OBD) technology, the National Center for Automotive Science & Technology at Weber State University has established the National OBD Clearinghouse through a US Environmental Protection Agency (EPA) grant.

To meet the challenge, the National OBD Clearinghouse facilitates communications, resolves issues and conveys accurate and timely OBD information between public officials and the automotive industry.

Vehicle OEM Database

The database contains a vehicle's DLC location and any provided TSB notifications and documents.

DLC Images may not be available for vehicles newer than 2004 model year. A previous model year and similar model may be referenced for general identification of the DLC appearance. Do not contact the OBD Clearinghouse personnel if the vehicle being researched does not have a related image. Thank you.

Database

Please select a vehicle combination below to search for another vehicle.

Step 1. - Select Manufacturer

Step 2. - Select Model

Step 3. - Select Year

Recent Documents

Subaru 2014 - 2016 MY Crosstrek Hybrid Display Incorrect DTC Info - 01/23/2019

07-135-18.pdf

2014 - 2016 MY Subaru Crosstrek Hybrid (HEV) vehicle can display incorrect DTC information when retrieving freeze-frame data.

VW TSB for Incorrect Calculated Load Value - 12/27/2018

V011816.pdf

PID\$04 Calculated Load Value is permanently too low due to an incorrect scaling on certain 2018 - 2019 Models.

Audi TSB for GST Mode\$01 PID\$04 Calculated Load Value scaling is incorrect - 12/03/2018

A011892.pdf

When using Generic Scan Tool (GST) PID\$04 Calculated Load reading shows unusual values in Mode\$01 and Mode\$02. Affected MY 2017-2019

Documents

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Toyota State I/M Program Advisory - 10/15/2018

IM Notification of Unsupported Rear O2 Sensor Heater_10_15_2018.pdf

Various 2018 MY Toyota models now show O2 heater as unsupported. This document discusses why these vehicles indicate heated O2 monitor is unsupported as well as future action recommended by CARB.

BMW G12(7-series) B070315 - 04/21/2017

B070315_Attachment.pdf

Supporting documentation for the SI B07 03 15 BWM technical service bulletin.

BMW G12 (7-series) Diagnostic Mode - 04/21/2017

SIB070315.pdf

With the introduction of the new G12 7 series vehicle, a new terminal control concept was introduced. In order to switch the vehicle into diagnostic mode for the State Inspection Maintenance Program, the Start/Stop button must also be pressed 3 times in succession within .8 seconds.

BMW Oxygen Sensor - Readiness Code Monitor is Not Set - 12/02/2016

121616.pdf

BMW has posted a document for their MY 2000 3 Series vehicles. A software update may be needed when these vehicles won't pass an I/M inspection due to the Oxygen Sensor readiness monitor being not set, not fitted, or not supported.

Subaru I/M Advisory Bulletin - 12/02/2016

11-165-16.pdf

Subaru of America, Inc. has determined that there is a typographical error on the underhood VECI label for Subaru Legacy 2.5GT 6MT models with turbo engine.

2007 Toyota Highlander Hybrid Vehicle (HV) & Lexus RX400h Air Fuel (A/F) Sensor Monitor Readiness Shows Incomplete - 12/02/2016

AF Monitor Incomplete_SSC F0P - FLD.docx

A software error in the subject vehicles will prevent the readiness indicator for Air Fuel (A/F) sensor monitor from setting, possibly preventing the vehicle from passing an OBD based inspection due to the lack of adequate system readiness. However, the monitor does function, and will detect a

malfunction if one exists and illuminate the Malfunction Indicator Lamp (MIL). Toyota has developed new engine control software logic to prevent this condition from occurring (the oxygen sensor readiness will set to complete once the required A/F and rear O2 sensor monitors run and complete). This condition will be corrected by Toyota Special Service Campaign (SSC) F0P with Toyota TSB T-SB-0042-15 and Lexus SSC FLD with TSB L-SB-0027-15 at no charge to owners. For California owners, the Department of Motor Vehicle (DMV) Registration Renewal/Recall Tie-in Program applies. Please direct any questions or concerns about the contents of this letter to Toyota/Lexus Techinfo Support, I & M Programs Administrator at (877) 762-7666.

VW Tech Tips for No Communication - 12/02/2016

TT 00-15-01.pdf

VW tech tip regrading no communication concerns related to aftermarket monitoring devices.

Fiat Chrysler Automobiles (FCA) Atypical VIN Issue - 12/02/2016

Automotive News VIN (June 1st).pdf

Automotive News article regarding the FCA atypical VIN issue.

Fiat Chrysler Automobiles (FCA) Atypical VIN Issue - 12/02/2016

Check Digit Advisory.pdf

FCA response to the fact that a number of new model 2015 Jeep Renegade and 2016 Fiat 500X vehicles were built in March and April 2015 with an atypical Vehicle Identification Number (VIN) that may not be automatically recognized by some computer systems. FCA has been working with various VIN software decoders to update their systems and accept these VINS as valid. They are now looking for identical assistance from the companies/agencies who develop and own inspection software/devices.

VW TSB for No Communication - 12/02/2016

A451510.pdf

Volkswagen TSB related to 1997-2001 A4, A6, and A8 vehicles that will not communicate with test equipment when the ABS and/or brake lamp is illuminated.

Cap-Less Fuel System List - 10/23/2013

1382565295-Vehicles with Cap-Less Fuel.pdf

A list of manufactures and vehicles using a cap-less fuel system.

Audi Q7 MY 2010-2014 TSB: Sporadic Data Disruption - 08/20/2013

1377007469-Audi TSB_2034945_1.pdf

There is sporadic data disruption on the CAN bus wiring behind the dashboard for Audi Q7 vehicles with either Gas or TDI engine configurations 2010-2014 MY.

Volkswagen MY 2011-2013 2.0L TDI â Incorrect glow plug faults - 07/31/2013

1375296908-jeatta TDI - glow plug diagnostics.pdf

Volkswagen MY 2011-2013 2.0L TDI â Incorrect glow plug faults

VW TSB for Scan Tool Mode Data Update - 07/31/2013

1375296852-2012 jetta scan tool data.pdf

Volkswagen MY 2012 2.0L TFSI â Engine control module may incorrectly store scan tool mode data

VW Technical Bulletin - 06/20/2013

1371742312-VW 2.0L - DTC P0441.pdf

Correct diagnosis of fault P0441 Using Aftermarket Scan Tool Only (MY 2012 vehicles with 2.0L engines)

Ford 2011MY Lack of Readiness and VIN Mis-match Information - 05/29/2013

1369861740-Ford 2011MY Lack of Readiness and VIN Mis-match Information.pdf

2011 Ford Explorer, Edge, and Lincoln MKX with 3.5L and 3.7L Engines â Lack of I/M readiness and VIN reporting error.

Honda Hybrid Battery Warranty Extension - 05/17/2013

1368798138-Honda Hybrid Battery Warranty Extension.pdf

American Honda is extending the warranty coverage on the IMA battery module for some 2003â08 Civic Hybrids an additional 12 months or 12,000 miles, whichever comes first.

Nissan and Infiniti Knock Sensor DTCs - 04/22/2013

1366648619-OBD Clearinghouse Letter Knock Sensor DTCs.pdf

Knock Sensor Letter to OBD I/M program administrators, OBD test tool manufacturers, and OBD and I/M stakeholders from Nissan concerning MY 2004 and older vehicles.

OBD Readiness Testability Issues - 10/30/2012

1351619269-revised_testability_list.pdf

Revised EPA document for vehicles with known OBD readiness testability issues.

Volvo O2 Sensor Readiness Advisory Update - 10/26/2012

1351283469-Volvo Readiness Advisory Ila.pdf

To State Program Administrators: Volvo Car Corporation, LLC (Volvo) has determined that certain 2011 through 2013 Volvo vehicles equipped with a 3.2L six cylinder engine have a calibration error which prevents the O2 sensor readiness from showing complete/ready.

2005MY and NewerSubaru Readiness Set Procedure - 10/16/2012

1350412785-Subaru TSB 11-120-12.pdf

Advisory bulletin for 2005 MY and newer vehicles on the readiness code set procedure.

2012 GM Truck TCM PID Count Change - 03/19/2012

1332195295-2012 GM Truck TCM PID Count change.pdf

GM Memo to I/M Community regarding a PID support changes with TCM service calibration release

EPA, CARB, and MA Documentation Regarding the Terrafugia Transition - 02/10/2012

1328900169-OBID Clearinghouse-Terrafugia-2012.pdf

Documents from the EPA, CARB, and MA DEP to Terrafugia acknowledging exemption from vehicle emissions testing for the street-legal aircraft Transition

Terrafugia Transition: Street-Legal Aircraft - 02/10/2012

1328899843-OBID Clearinghouse - Feb, 2012.doc

Letter from Terrafugia, the manufacturer of the street-legal aircraft Transition, explaining that the EPA has classified the Transition as an airplane and is therefore not required to abide by vehicle emissions standards. CARB has also granted an emissions testing exemption for the vehicle.

GM memo to I/M Programs, Test Tool Manufacturers and Stakeholders - 02/08/2012

1328723111-2012 Chevy Cruze 1.4L PID Count_ver 1.pdf

GM memo identifying supported OBD PID changes for the 2012 Chevy Cruze with 1.4L engine.

GM Letter to I/M Programs - 01/30/2012

1327936051-TSB_GM_10-07-30-010_Permanent DTC rev1.pdf

GM bulletin regarding TCM Permanent DTCs on certain 2010 vehicles equipped with 3.5L or 3.9L engines and 4 speed transmissions.

2006 GM Small Car Communitation Issue rev1 - 01/23/2012

1327342430-2006 GM Small Car Communitation Issue rev1.pdf

GM document to OBD I/M program administrators, OBD test tool manufacturers, and OBD I/M Stakeholders. A revised version for a communication issue with 2006 Chevrolet HHR (VIN D) / Cobalt (VIN F), Saturn Ion (VIN F), and Pontiac Pursuit (VIN F) vehicles equipped with 2.2 liter engine.

2007 PID Count Change_rev3.pdf - 01/23/2012

1327342248-2007 PID Count Change_rev3.pdf

GM document to OBD I/M program administrators, OBD test tool manufacturers, and OBD I/M Stakeholders. A revised version of a PID Status Change for 2007 Chevrolet Tahoe, Suburban, Avalanche; GMC Yukon, Yukon XL with 5.3 Liter Flex Fuel Engines.

Toyota State I/M Program Advisory Communication - 12/09/2011

1323459962-VSC-TRAC OBD IM Condition_rev120611.pdf

Subject: VSC Light On with C1336 DTC After OBD Inspection Potential Applicability: Toyota 4Runner 2003, 2004 Lexus SC430 2002-2005 Tundra 2001, 2002 Tacoma 2002-2004 Condition: There has been a rare and difficult to diagnose condition reported on a small number of 2003/2004 4Runners turning on the VSC (Vehicle Stability Control) warning lamp with a Diagnostic Trouble Code C1336, after undergoing I/M OBD inspection. To rectify this condition, a zero point calibration of the deceleration sensor must be performed. For more information about how to avoid this condition, please see the attached documents.

VW Emissions Service Action - 10/03/2011

1317656332-24V1-V2 Emissions Service Action circular.pdf

2005 MY Jetta with 2.5L Engine & Automatic Transmission ECM/TCM Software Update

Letter to I/M Programs from VW - 10/03/2011

1317650256-VW_Jetta_MY05_2_5L_TCM_Protocol_2011July15_Weber_St.pdf

Volkswagen - 2005 MY Jetta with 2.5L Engine & Automatic Transmission OBD communication protocol

Subaru I/M Advisory Bulletin 11-106-11 - 08/02/2011

1312293092-11-106-11.pdf

State I/M Program Advisory Bulletin for 2006 Subaru Legacy/Outback 2.5L. VECI Label Reference During State Emission Test

EPA: Improving I/M Performance and OBD Monitor Readiness - 05/11/2011

1305129266-Readiness 2011.pdf

EPA memorandum with an updated list of vehicles that exhibit issues related to OBD monitor readiness (formerly known as Appendix D) as well as suggestions for how I/M programs can improve operational performance by addressing readiness.

VW TSB: Aftermarket Accessories - 03/16/2011

1300304402-V010613.pdf

VW TSB explaining how damage to OBD system is possible with improper aftermarket accessory installation.

Drive Cycle for Saab 900 MY '96-'98 Vehciles - 03/10/2011

1299795641-Saab drive cycle.pdf

Saab service bulletin describing drive cycle required to set readiness on 1996-1998 My 900 vehicles with 2.3L engines.

Letter to I/M Programs from Hyundai - 03/10/2011

1299795465-OBDD Clearinghouse Letter(Hyundai Veracruz 2007-2008 Readiness).doc

Lettering from Hyundai to State I/M Programs describing issue related to readiness issues found on Veracruz vehicles with 3.8L engines 2007-2008 MY

Hyundai TSB '07-08 Veracruz Readiness Issues - 03/10/2011

1299795329-TSB_Hyundai_10-FL-021(Veracruz readiness).pdf

TSB Describing Readiness issues for 2007-2008 MY Hyundai Veracruz vehicles equipped with 3.8L engines.

Subaru 2005MY and Newer Readiness Code Set Procedure - 03/08/2011

1299615477-11-98-10R_03-03-11.pdf

This bulletin provides information on the readiness code setting procedure for 2005 and newer Subaru vehicles.

Jaguar Letter to State I/M Administrators and Service Technicians - 12/22/2010

1293044701-Jaguar_32-Bit_ECM_Readiness_Setting_TSB_021210.pdf

Letter from Jaguar describing necessary parameters are met in order to set readiness for certain Jaguar vehicles

Letter to I/M programs from Kia - 12/09/2010

1291918465-OBD Clearinghouse letter(Rio readiness)_final(CARB revised)_12052010.pdf
Letter from Kia to I/M programs concerning 2006-2007 Rio EGR/VVT readiness status.

TSB 2006-2007 Kia Rio Readiness - 12/09/2010

1291918412-TSB ENG 085(Rio readiness)_12052010.pdf
TSB for 2006-2007 Kia Rio EGR/VVT readiness status for vehicles with a 1.6L engine.

Letter to I/M programs from Hyundai - 12/09/2010

1291918345-OBD Clearinghouse letter(Accent readiness)_final(CARB revised)_12052010.pdf
Letter from Hyundai to I/M programs concerning 2007 Accent EGR/VVT readiness status.

TSB 2007 Hyundai Accent Readiness - 12/09/2010

1291918227-TSB 10-FL-016(Accent readiness)_12052010.pdf
TSB for 2007 Hyundai Accent EGR/VVT readiness status for vehicles with a 1.6L engine.

Mazda PID Status Change- 2004 Mazda 3 - 12/06/2010

1291661701-2004MY_Mazda3_PID_Count_Change.pdf
Update from Mazda on supported PIDs for 2004 Mazda 3 2.0L/2.3L Engines

Mazda PID Status Change- 2004 Mazda 3 - 12/06/2010

1291661500-2004MY_Mazda3_PID_Count_Change.pdf
Update from Mazda on supported PIDs for 2004 Mazda 3 2.0L/2.3L engines

OBD I/M program implementation for Flexible Fuel Vehicles - 09/22/2010

1285180853-OBD IM for Flex Fuel Vehicles.pdf

The purpose of this document is to provide additional information on the inspection process of alternative fueled vehicles equipped with On-Board Diagnostic (OBD) systems. Specifically, this document provides additional technical information and impacts on the OBD system monitoring capability when flexible fuel vehicles (FFVs) are operated using alternative fuel. Also, it will assist Inspection and Maintenance (I/M) Programs in implementing OBD system checks and educating owners of FFVs.

EGR Readiness 2008 Saturn Astra - 09/22/2010

1285179642-2008 Chevy Astra EGR Readiness.pdf

GM has provided information relating to a service calibration that, when installed, will change the

EGR/VVT readiness support status from 'not supported' to 'supported'. Affected Vehicles: 2008 Chevrolet Astra.

Volkswagen K-line Communication Description - 07/07/2010
1278519259-K-line communication description_V3 0.pdf

OBD Communication Initialization - 07/07/2010
1278518572-VW_Initialization_2_6_seconds.pdf
Volkswagen has found that some inspection equipment (or handheld OBD scan tools) have trouble establishing communication with a: 1999 MY VW Golf 1.9L TDI (diesel) 66kW; 2000 MY VW Jetta 1.8L Turbo (gasoline) 110kW; or 2001 MY VW Jetta 2.0L (gasoline) 85kW and may not be able to establish communication at all with these vehicles or may only be able to establish communication with the transmission control module (TCM) (for automatic transmission equipped vehicles).

1997 2.5TL GST Communication Issue - 06/29/2010
1277768536-Acura 1997MY 25TL GST Communication Issue 06-2010.pdf
1997 Acura 2.5TL has experienced a generic scan tool (GST) communication issue during smog check inspections in several states.

Land Rover 10MY LR2 TCM CVN Reporting - 06/29/2010
1277768150-10MY_LR2_TCM_TSB.pdf
Due to a mistake in the TCM software, 2010 model year LR2 vehicles with the TCM software that has CAL ID 31259658 AB will each report a different (unique) CVN.

Verified Generic OBD Communication Protocols - 06/09/2010
1276045151-OBD_generic_protocols_verified_2010-04-12.xls
OBD II Generic Communication Protocol table listed by Make, Model and Model Year

State I/M Program Advisory Bulletin #1-2010 - 03/17/2010
1268844765-VW_IM_OBDII_bulletin_1-2010.pdf
Subject: OBD Communication Initialization 1999-2001 Golf, Jetta All gasoline and diesel (TDI) engines

Volvo Air Conditioning (A/C) Readiness Monitor - 02/17/2010
1266385435-Volvo_IM_Advisory.pdf
Volvo Car Corporation, LLC (Volvo) has determined that certain XC90, S40 and V50 vehicles have

the A/C readiness mistakenly set to supported instead of unsupported. This means that some technicians or IM administrators may think there are issues with scan tool equipment accuracy, vehicle tampering, or fraud. This letter is to confirm that specific Volvos will indeed report A/C monitor as supported and to provide information regarding which vehicles are affected and what additional actions repair technicians may need to take to get the A/C monitor readiness to report 'ready/complete'.

Chrysler Dual Protocol Issue - 09/29/2009

1254246787-Chrysler OBD Dual Protocol Clearinghouse Letter.doc

Chrysler has provided a document regarding the dual protocol issues for Dodge Truck and Jeep - Engine Control Modules supporting both SAE J1850 and ISO 9141-2 Protocols. Affected vehicles: 1999 - 2004 Jeep Grand Cherokee 2001 - 2004 Jeep Wrangler 2002 - 2003 Jeep Liberty 2001 - 2003 Dodge Dakota 2001 - 2003 Dodge Durango 2002 - 2003 Dodge Ram Pickup

CAN for Vehicle Emissions Data Communication - 12/17/2008

1229535148-CAN Communication for Vehicle Emission Control Systems_article_.pdf
Details of the CAN protocol.