

OBD Scan

Society of Automotive Engineers

Automotive Diagnostic Systems Keith McCord, 2011 OBD expert, tuner, and author Keith McCord explains system architecture, function, and operation. He shows you how to use a hand-held scanner, connect it to the port connector in the car, and interpret the data. But most importantly, he shows you a practical, analytical, and methodical process for tackling a problem, so you can quickly trace its actual source and fix the root cause and not just the symptom... -- from page 4 of cover.

How To Use Automotive Diagnostic Scanners Tracy Martin, 2015-08-01 From hand-held, dedicated units to software that turns PCs and Palm Pilots into powerful diagnostic scanners, auto enthusiasts today have a variety of methods available to make use of on-board diagnostic systems. And not only can they be used to diagnose operational faults, they can be used as low-budget data acquisition systems and dynamometers, so you can maximize your vehicle's performance. Beginning with why scanners are needed to work effectively on modern cars, this book teaches you how to choose the right scanner for your application, how to use the tool, and what each code means. *How To Use Automotive Diagnostic Scanners* is illustrated with photos and diagrams to help you understand OBD-I and OBD-II systems (including CAN) and the scanners that read the information they record. Also included is a comprehensive list of codes and what they mean. From catalytic converters and O2 sensors to emissions and automotive detective work, this is the complete reference for keeping your vehicle EPA-compliant and on the road!

OBD II Repair Strategies Mandy Concepcion, In the early part of the 21st century, we find our lives intertwined with a maze of technological wonders. From cell-phones to personal computers, no human being today can escape it. Automobiles are no exception to this rule. With the ever changing emission laws of today, the one constant in the automotive industry is that things always change and will continue to do so. OBD II was designed from the beginning to do so as well. Late model vehicle systems are much more demanding, in both the amount of technology they possess and in the knowledge necessary to repair them. This work was designed to just that, a step-by-step diagnostic approach to OBD II systems. It is also written with the State Inspections in mind. This is in direct response to the increasing adoption of OBD II inspections by most States throughout the country. OBD II repair doesn't have to be difficult or cumbersome and knowledge is the key to successful OBD II diagnostics and repair. About the Author Mandy Concepcion has worked in the automotive field for over 21 years. He holds a Degree in Applied Electronics Engineering as well as an ASE Master & L1 certification. For the past 16 years he has been exclusively involved in the diagnosis of all the different electronic systems found in today's vehicles. It is here where he draws extensive practical knowledge from his experience and hopes to convey it in his books. Mandy also designs and builds his own diagnostic equipment, DVD-Videos and repair software. Edition 4.0, Table of Contents, Copyright 2004, 2011, All rights reserved

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Enhanced. What's the difference? why do you need to pull-out both codes? - The vehicle failed OBD II-State Inspection, but is passing a 5 gas emissions test. Why is it? - Resetting fuel trims. It's not the same procedure for every system - The Diagnostic Executive or Task Manager. What is it? - Bi-Directional control capabilities are revolutionizing the diagnostic process - Diagnosing EVAP leaks. It doesn't have to be complicated Section 2 - Baseline the system includes retrieving FF, codes, & monitor status - Freeze Frames information gathering - Monitor status flag - Code Setting Criteria. How and why was the code set? - Freeze Frame and Code Setting Criteria comparison - Dividing the diagnostic process into systems and using the codes to detect system faults - First rule of diagnostics—Know the system you're working on - System by System outlook - Which Monitors are Incomplete. The need to prove each system without having to run a drive cycle by using the scanner, saving time & money - General Idle PID Snap-Shot Section 3 - INTRODUCTION - OBD-2 Generic PID list - OBD I and OBD II, and general PID analysis - FUEL DELIVERY FAULT DETECTION - TEST # 1 - TEST #2 - TEST #3 - TEST #4 - TEST #5 - RUNNING THE MONITORS IN YOUR MIND USING THE SCANNER Section 4 - Putting it all together. - Principles of diagnostics - Basic Scope Testing and Bi-Directional Control - No-Start, General Diagnostics - The correct decision making process to a sound repair - Don't assume anything or get caught in a particular mind set - Taking all the facts into account

Automotive Scan Tool PID Diagnostics Mandy Concepcion, 2011-10-06 Automotive Scan Tool PID Diagnostics (Diagnostics Strategies of Modern Automotive Systems) By Mandy Concepcion In this section, the different techniques of scan tool parameter (PID) analysis will be exposed. Techniques involving PID analysis are quickly catching on, due to their speed and accuracy. By properly analyzing the different scanner PIDs, the technician can arrive at the source of the problem much faster and accurately. These procedures give rise to the new term "driver seat diagnostics", since most of the preliminary diagnostic work is done through the scanner. However, these techniques will in no way replace the final manual tests that are a part of every diagnostic path. They are simply geared to point the technician in the right direction. Table of Contents INTRODUCTION (Introduction to scan tool diagnostics and the relevance of using PIDs or scanner parameter to perform the first leg of all diagnostics.) - Theory of Operation Behind the Different PIDs (Describes CARB, the difference between generic and enhanced PIDs, the FTP) - OBD II Generic PIDs (PID calculated and actual values, calculated data relationships, base injection timing, ECM value substitution) - OBD I & II General PID analysis (erasing code-or not, recording, analyzing and pinpoint tests, separating PIDs into groups) - Fuel Delivery Fault Detection (fuel delivery issues, intake air temp. sensor, BARO sensor, Engine LOAD, RPM PID, Short-Term Fuel Trims, Long-Term Fuel Trims, 60% of check engine light issues, block learn/integrators, Example 1: injector fault, Example 2: intake gasket issues, fuel status, ignition timing, MAP/MAF, TPS, O2 sensor, IAC, Closed Throttle, injector pulse width, voltage power, injector dutycycle, fuel trim cell) - Test #1 (Determining an engine's fuel Consumption (rich-lean operation, duty-cycle to fuel trim relationship, O2 sensor to fuel trim relation, FT and vacuum leaks, ignition timing and idle control, test conclusion) - Test # 2 (Misfire Detection Strategy, EGR, Ignition and Mechanical misfires) (misfires and OBD2, scanner misfire detection – a time saver, OBD2 40 and 80 cycle misfire, ignition, injector and EGR density

misfire, coil-on-plug, misfires and O2 sensor, lean O2 & Secondary misfire, O2 sensor & injector misfires, leaky injector, EGR and the MAP, Type A, B, C misfires, test conclusion) - Test # 3 (Air/Fuel Ratio Faults) (air-fuel imbalance, MAF and post O2 sensors, open-closed-loop, fuel enable, HC & CO relation to AF issues, test conclusion) - Test # 4 (BARO, MAP & MAF PID analysis) (MAP & valve timing faults, ECM behavior, fuel delivery or duty cycle test, volumetric efficiency, , test conclusion) - Test # 5 (Clogged exhaust) (clogged catalytic converter detection, TPS, MAF and converters, idle and WOT or wide open throttle values, vacuum readings, MAP to WOT charts analysis, engine and MAP vacuum, test conclusion) - Test # 6 (EGR Fault Detection) (EGR and MAP values, ECM reaction to EGR issues, EGR temp sensor, DPFE sensor, EGR and O2-MAP and lift position sensor, EGR and engine pre-loading, EGR and the ECM erroneous high LOAD issues, test conclusion) - Test # 7 (O2 Sensor Heater) (O2 heaters and why?, tough to check O2 heater issues, O2 heater effect on signal output, O2 heater bias voltage, engine off and O2 changing value, test conclusion) - Test # 8 (Resetting Fuel Trims) (resetting injection pulse corrections, long-term and short-term fuel trims, learn condition, Lambda, case study on fuel trims, FT resetting according to manufacturer, test conclusion) - Test # 9 (Engine Cranking Vacuum Test) (MAP/MAF cranking vacuum, vacuum to PID analysis, vacuum leaks, gauge-PID test, sources of leaks, cranking values, test conclusion)

OBD-II Repair Strategies Mandy Concepcion, 2011 OBD 2 Repair Strategies (Including State Smog Inspections) In the early part of the 21st century, we find our lives intertwined with a maze of technological wonders. From cell-phones to personal computers, no human being today can escape it. Automobiles are no exception to this rule. With the ever changing emission laws of today, the one constant in the automotive industry is that things always change and will continue to do so. OBD II was designed from the beginning to do so as well. Late model vehicle systems are much more demanding, in both the amount of technology they possess and in the knowledge necessary to repair them. This work was designed to just that, a step-by step diagnostic approach to OBD II systems. It is also written with the State Inspections in mind. This is in direct response to the increasing adoption of OBD II inspections by most States throughout the country. OBD II repairs don't have to be difficult or cumbersome and knowledge is the key to successful OBD II diagnostics and repair. About the Author Mandy Concepcion has worked in the automotive field for over 32 years. He holds a Bachelor's Degree in Electronics Engineering as well as an ASE Master & L1 certification. For the past 16 years he has been exclusively involved in the diagnosis of all the different electronic systems found in today's vehicles. It is here where he draws extensive practical knowledge from his experience and hopes to convey it in his books. Mandy also designs and builds his own diagnostic equipment, DVD-Videos and repair software. Edition 4.0, Table of Contents, Copyright 2004, 2011, All rights reserved

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Inspection, but is passing a 5 gas emissions test. Why is it?- Resetting fuel trims. It's not the same procedure for every system- The Diagnostic Executive or Task Manager. What is it?- Bi-Directional control capabilities are revolutionizing the diagnostic process- Diagnosing EVAP leaks. It doesn't have to be complicated Section 2 - Base-lining the system includes retrieving FF, codes, & monitor status- Freeze Frames information gathering- Monitor status flag- Code Setting Criteria. How and why was the code set?- Freeze Frame and Code Setting Criteria comparison- Dividing the diagnostic process into systems and using the codes to detect system faults- First rule of diagnostics-Know the system you're working on- System by System outlook- Which Monitors are Incomplete. The need to prove each system without having to run a drive cycle by using the scanner, saving time & money- General Idle PID Snap-Shot Section 3 - INTRODUCTION- OBD-2 Generic PID list- OBD I and OBD II, and general PID analysis- FUEL DELIVERY FAULT DETECTION- TEST # 1- TEST #2- TEST #3- TEST #4- TEST #5- RUNNING THE MONITORS IN YOUR MIND USING THE SCANNER Section 4 - Putting it all together.- Principles of diagnostics- Basic Scope Testing and Bi-Directional Control- No-Start, General Diagnostics- The correct decision making process to a sound repair- Don't assume anything or get caught in a particular mind set- Taking all the facts into account

OBDII Diagnostic Peter David,2002 The principles of tuning OBDII vehicles are outlined for do-it-yourself novices and repair professional alike in this introduction to automotive electronic diagnostics. Beginning with basic automotive concepts of engine operation and the powertrain control module, topics span the history of OBDII, anatomy of the scan tool and its components, and the language and protocols that the OBDII uses to communicate faults. Diagnostic tips and detailed fault code descriptions for major domestic automobile manufacturers including General Motors, Ford, and Daimler-Chrysler accompany tips for Asian and European vehicles. The straightforward prose and cooking recipes listed at the end contribute to this comprehensive primer to electronic diagnostics.

Diagnostic Code Reader for All Vehicles LOG Artbc Lms,2020-01-26 diagnostic code reader for all vehicles log

OBD2 Automotive Code Encyclopedia and Cross Reference Guide Mandy Concepcion, Includes pressure/voltage/current volumes, OBD-2 code definitions & code-setting criteria--Cover.

OBD-II: Functions, Monitors and Diagnostic Techniques Al Santini,2010-06-08 OBD II: FUNCTIONS, MONITORS, AND DIAGNOSTIC TECHNIQUES is a resource that offers complete coverage of OBD II and tells your students what they need to know to succeed as field technicians. This exciting new book combines coverage of OBD II design, its role in state emission testing failures, diagnosis and repair, and the setting of readiness monitors. It provides your students with a solid working knowledge of the purpose and functions of the OBD II by beginning with an overview of the technology and its role in on-the-job tasks. Using this as a foundation, the author then addresses more advanced topics, including the extremely high-powered diagnostic abilities involving the various scanner modes, as well as the hows and whys of setting readiness monitors. With numerous practical examples and an emphasis on world-wide vehicle coverage that does not limit explanations to specific manufacturers, OBD II: FUNCTIONS, MONITORS, AND DIAGNOSTIC TECHNIQUES, will prepare your students for success in the industry. Important Notice: Media

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OBD II Scan Tool Society of Automotive Engineers,2002

Volkswagen Scan Tool Companion, 1990-1995 Bentley Publishers,2001 Bentley Publishers is the exclusive factory-authorized publisher of Volkswagen Service Manuals in the United States and Canada. In every manual we provide full factory repair procedures, specifications, tolerances, electrical wiring diagrams, and lubrication and maintenance information. Bentley manuals are the only complete, authoritative source of Volkswagen maintenance and repair information. Even if you never intend to service your car yourself, you'll find that owning a Bentley Manual will help you to discuss repairs more intelligently with your service technician. The Volkswagen Scan Tool Companion 1990-1995 is the essential reference book for the professional Volkswagen technician or the do-it-yourselfer with a Volkswagen scan tool. This book, together with a VAG 1551 scan tool or equivalent scan tool software, is the only equipment you'll need to interrogate and diagnose 1990 through 1995 Volkswagen engine management systems. You'll find all the engine management factory scan tool support information in one place culled from volumes of factory service information in an easy-to-use format. You'll also find lots of additional information not found in any factory repair manual, including nominal values for correctly functioning engine management systems, scan tool fundamentals, and exhaust and emissions theory. Coverage includes gasoline engine management systems with On Board Diagnostics (OBD) commonly referred to as OBD-I (systems without readiness codes) for 1990 through 1995 model year Golf, Jetta, GTI, Corrado, Passat, Fox, Cabriolet, and Eurovan including California and Canadian versions. Also covered is the 1995 Winnebago Rialta and Camper and the OBD-D system found on 1996 Passat TDI diesel.

Automotive Diagnostic Systems Keith McCord,2011-07-21 Author McCord provides a thorough process for trouble shooting problems, tracing a problem to its root, explaining why DTCs may not lead to the source of the underlying problem, and ultimately resolving the problem. Contains full DTC code chart.

OBD II Diagnostic Strategies Ralph Birnbaum,Jerry Truglia,2002-10-01 This book is designed to enable you to successfully test on-board diagnostic II vehicle problems, and prepare the reader for scan tool emissions tests.

OBDII Diagnostic Fault Codes Peter A. David,2003 More than 4,000 OBDII fault codes are compiled and qualitatively described in this compendium of generic and manufacturer-specific proprietary fault codes for common vehicles. The diagnostic connectors, protocols and their classifications, breakdown of fault codes, and vocabulary used to describe components are detailed in the discussion of the anatomy of the OBDII scan tool. This comprehensive reference to fault codes aids in diagnostic assessment by making clear the nature of an automotive problem so that beginner and advanced technicians can make effective repairs.

OBD II Scan Tool and Diagnostic Monitors Aspire,2001-01-01 This course provides a student with basic information related to the information available on a generic OBD II scan tool, and basic procedures used during an OBD II Diagnostic Check (generic I/M OBD II check). The OBD II Strategies module illustrates examples of how malfunctions effect the OBD II system reinforcing the use of the scan tool and diagnostic check. This course can be used independently or as the third part of a 3-section, OBD II course.

(Section 1-Evolution of OBD, and Section 2-OBD II Diagnostic Strategies.)

Automotive Diagnostic Systems Keith McCord,2020

OBD-II & Electronic Engine Management Systems Bob Henderson,John

Haynes,2006-11-01 This manual takes the mystery out of Second-Generation On-Board Diagnostic Systems allowing you to understand your vehicles OBD-II system, plus what to do when the Check Engine light comes on, from reading the code to diagnosing and fixing the problem. Includes a comprehensive list of computer codes. Computer-controlled car repair made easy! For all car and light truck models manufactured since 1996. Understand your vehicle's On-Board Diagnostic system How to deal with that Check Engine light--from reading the code to diagnosing and fixing the problem Comprehensive computer codes list Diagnostic tools: Powertrain management fundamentals OBD-II monitors explained Generic trouble codes that cover all models! Manufacturer-specific trouble codes for GM, Ford, Chrysler, Toyota/Lexus and Honda/Acura vehicles Let your car's computer help you find the problem! Component replacement procedures Glossary and acronym list Fully illustrated with over 250 photographs and drawings

Asp-Ee-Tg-503-1s Obd Ii Scan Tool and Diagnostic Monitors-Ase

Aspire,2003-08-01

Obd II Scan Tool and Diagnostic Monitors - Technician Reference Guide

Aspire,2001-01-01 This course provides a student with basic information related to the information available on a generic OBD II scan tool, and basic procedures used during an OBD II Diagnostic Check (generic I/M OBD II check). The OBD II Strategies module illustrates examples of how malfunctions effect the OBD II system reinforcing the use of the scan tool and diagnostic check. This course can be used independently or as the third part of a 3-section, OBD II course. (Section 1-Evolution of OBD, and Section 2-OBD II Diagnostic Strategies.)

Automotive Computerized and Electrical Diagnostics Technology Asoro

Osasumwen,2020-06-03 AUTOMOTIVE COMPUTERIZED AND ELECTRICAL DIAGNOSTICS TECHNOLOGY is a book that deals with the technology behind computerized and electrical diagnosis of systems and components in the vehicle. This book provides theories of the operations of the On-Board Diagnostic (OBD) protocol; which include the OBD I and OBD II protocol.This book is present a practical approach to automotive diagnostic technology, with step by step analysis.The book also entails the use of various kind of diagnostic tools for various diagnostics operations, the terminology involves in the diagnostic procedure and also the technology behinds it operation.The render step by step procedures of diagnostics operations which is compatible for all kind of diagnostic tool, with necessary advices on how to perform the operations. It also touches all kind of diagnostic tools and diagnostics operation available in the automotive technology industry.This book also cover aspect such as Electronic Control Unit (ECU) reprogramming and repairs, it involves reprogramming of various systems and components in the vehicle.Some key topics in this book involves:1. AUTOMOTIVE DIAGNOSTICS TECHNOLOGY.2. THE ON-BOARD DIAGNOSTICS (OBD I) SYSTEM/PROTOCOL. 3. HOW TO DIAGNOSE USING OBD I PROTOCOL.4. ON-BOARD DIAGNOSTIC (OBD II) SYSTEM/PROTOCOL.5. DIAGNOSTIC TOOLS/SCANNERS.6. ELM327.7. LIMITATIONS OF ELM327.8. ELECTRONIC CONTROL UNIT (ECU) AND SENSORS.9. CONTROLLER AREA NETWORK (CAN).10. CHECK ENGINE LIGHT.11. CODE READERS VERSUS DIAGNOSTIC SCANNERS.12. CURRENT AND STORED FAULTS CODES.13. SOFTWARE/APPLICATIONS FOR

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