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 Data Driven System Engineering

Auto Diagnostic Software For Fiat

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STEWART CARLSON

Advanced Automotive Fault Diagnosis Mandy Concepcion

WaveFile AutoPro CD-ROM helps both the instructor and the student to get the most out of their Automotive Lab Scopes, Scan-Tools, or other diagnostic tools with its interactive computer-based training, extensive waveform library, on-line diagnostic and repair procedures, and full waveform transfers to and from your scope, scan tool, or other diagnostic tool. WaveFile AutoPro provides you with instant information on every aspect of automotive electronic troubleshooting. The powerful WaveFile AutoProTM communications program works with most popular automotive Lab Scopes, Scan Tools, and other instruments: Snap-On Vantage, Counselor II, Snap-On Scanner, Sun LS200, MAC ET2020, ET2010, KaSCOPE 550A, 565A, & the new 575, OTC Vision, Matco Insight, Vetronix Mastertech, Tektronix THM 500 series, 222/224, and 710/720 series, Fluke 93-105 series (incl. 98) & more! In addition, the program comes with an automated Instructor's Guide for classroom use or self-study--47 hours of interactive computer-based training with self-paced interactive tutorial on 02 waveform analysis. (KEY WORDS:ENGINE PERFORMANCE, ENGINE REPAIR)

Automotive Diagnostic Systems How To Use Automotive Diagnostic Scanners

With the ever increasing electronic content in today's vehicles, the need to be able to read automotive wiring diagrams is as important as knowing how to use the different equipments needed to perform diagnostic work. Reading wiring diagrams requires a bit of knowledge of electricity and experience. By knowing the laws and rules that govern electron flow, you can become very proficient at this endeavor. Feel free to play the DVD accompanying this book and referring back to so that you can absorb all the information. Good luck and enjoy. About the Author Mandy Concepcion has worked in the automotive field for over 32 years. He holds a Bachelor's Degree in Applied Electronics Engineering as well as an ASE Master & L1 certification. For the past 23 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. AUTOMOTIVE ELECTRONIC DIAGNOSTICS (Course 1) (Including How to Read Automotive Wiring Diagrams) Copyright 2006, 2021 Table of Contents Introduction- Electron theory and atoms- Atoms and electrons- Like forces repel and unlike forces attract.- Electron Theory and Metals- What is current?- What is resistance?- Resistance in series and parallel- Resistance and Power- What is voltage?- Introduction to transistors?- What are transformers?- Current Flow Analysis- Switches and Relays

Stories from the Road 6 Createspace Independent Pub

Since the early seventies, the development of the automobile has been characterized by a steady increase in the deployment of onboard electronics systems and software. This trend continues unabated and is driven by rising end-user demands and increasingly stringent environmental requirements. Today, almost every function onboard the modern vehicle is electronically controlled or monitored. The software-based implementation of vehicle functions provides for unparalleled freedoms of concept and design. However, automobile development calls for the accommodation of contrasting prerequisites - such as higher demands on safety and reliability vs. lower cost ceilings, longer product life cycles vs. shorter development times - along with growing proliferation of model variants. Automotive Software Engineering has established its position at the center of these seemingly conflicting opposites. This book provides background basics as well as numerous suggestions, rare insights, and cases in point concerning those processes, methods, and tools that contribute to the surefooted mastery of the use of electronic systems and software in the contemporary automobile.

How To Use Automotive Diagnostic Scanners Delmar Pub

This book addresses the issue of the best way to build effective knowledge-based systems for handling different types of diagnostic problems. It presents examples of different solutions to building effective diagnostic systems, and helps the reader to decide on an appropriate strategy for building a system. The book makes the material easy to understand and goes through the different options for constructing diagnostic systems.

Engine Performance Diagnosis and Tune-up SAE International

This book provides full scope of automotive ECU development activities including cybersecurity and safety plus SOTIF. Every computing system has two, and only two attributes: Data Value and Data timing, which represent fully the system functionalities from the system external behavior point of view. The data driven system engineering is the approach to develop the system by focusing on the two attributes mentioned above, in which, the data values are derived by the system operation concept design, and the data timing is derived by the system latency design. Based on which, this book provides a full range of system and software engineering development activities: Requirement Elicitation Requirement Engineering System and Software Architecture Design System Operation Concept Design System and Software Structure Design Electronic Architect Design Functionality Allocation Failure Mode and Effect Analysis (FMEA) Safety including SOTIF Cybersecurity (full compliant with UN ECE 155/156) System and software Verification System and Software Integration and Verification System and Software Black Box Verification each of which has its own clearly defined scope and approach, which is different from the conventional development, in some cases even different from some ISO standards, for example: Safety Development: the safety requirements for every part in a vehicle are cascaded from the vehicle safety requirements, which is different from the Concept Phase in the Part 3 of ISO 26262, and the functional safety development will be fully covered by (1) Reliability (2) Availability (3) Quality. Error Detection and Protection: there are only two types of errors to be detected in a computing system: Data Value error and Data Timing error, to detect which, there are only two aspects to be considered: (1) input data (2) middle data and output data in addition to the platform error detection. The approaches of detection and protection include (1) data transfer protocol check, (2) data range and reasonable value check, (3) execution time check and control. FMEA: this book provides the optimized approach by following the data relationships between the input data, middle data and output data, which will be both inductive and deductive, and re-use the system operation concept that is built at the system development first phase, to make the development efficient. Cybersecurity: this book provides the full solution to cover the UN ECE 155 by implementing three aspects: (1) Trusted contents in the ECU (2) Authenticated access to the ECU (3) Authenticated communication with the ECU. Requirement Engineering: This book makes the goal and scope of requirement engineering in the computing system development specific, accurate and measurable by defining the scope as: the requirement engineering is to use the computer executable information to describe the system under development which consists only two types of information: Signal and Test Case, and defining the requirement quality measurement as: (1) Signals, either input or output signals, shall be computer readable. (2) Test cases shall be executable in the system. System Architecture Design: The goal of system architecture design is to provide the platform that transfers and transforms the input signal to become the required output signal via some middle data. This book introduces the following system functional modularizations based on the AUTOSAR that satisfies a generic automotive ECU structure: (1) Feature Function (2) Diagnostic Service (3) Cybersecurity Function (4) Serial Signal Manager (5) Application Mode Manager (6) AUTOSAR, and based on the characteristics of those functions, the book provides the approach to design the electronic architecture and allocate the functions to the architecture.

Computer-Based Diagnostic Systems Routledge

'Automotive Computer Controlled Systems' explains the fundamental principles of engineering that lie behind the operation of vehicle electronic systems. Having obtained this knowledge, the reader

will be able to make full use of the diagnostic equipment which is currently available. The book builds on the concepts contained in Vehicle Electronic Systems and Fault Diagnosis and gives clear steps to fault diagnosis and subsequent repair of the vehicle's electronic systems. The author discusses electronics only within the context of the vehicle systems under consideration, and thus keeps theory to a minimum. Allan Bonnick has written articles for several transport/vehicle journals and carries out consultancy work for the Institute of Road Transport Engineers. In addition, he has had many years teaching experience and is ideally placed to write this informative guide.

Data Acquisition from HD Vehicles Using J1939 CAN Bus Mandy Concepcion
diagnostic code reader for all vehicles log

Class Text Haynes Manuals N. America, Incorporated

With the ever increasing electronic content in today's vehicles, the need to be able to read automotive wiring diagrams is as important as knowing how to use the different equipments needed to perform diagnostic work. Reading wiring diagrams requires a bit of knowledge of electricity and experience. By knowing the laws and rules that govern electron flow, you can become very proficient at this endeavor. Feel free to play the DVD accompanying this book and referring back to so that you can absorb all the information. Good luck and enjoy. 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. AUTOMOTIVE ELECTRONIC DIAGNOSTICS (Course 1) (Including How to Read Automotive Wiring Diagrams) Table of Contents - Introduction - Electron theory and atoms - Atoms and electrons - Like forces repel and unlike forces attract. - Electron Theory and Metals - What is current? - What is resistance? - Resistance in series and parallel - Resistance and Power - What is voltage? - Introduction to transistors? - What are transformers? - Current Flow Analysis - Switches and Relays

Diagnostic Code Reader for All Vehicles LOG Motorbooks

Automotive Repair Case Studies(Diagnostic Strategies of Modern Automotive Systems)By Mandy ConcepcionIn this section, we'll take a look at automotive diagnostics in action. An effort has been made to look at problems in different ways, in each of the examples. Although there are many ways to perform the same task, the idea here is to show the technician or avid DIY mechanic the different ways to go about diagnosing automobiles. Special attention is given to specific systems and different makes and models. The different real life diagnostic cases are explained from narrated perspective to make learning easier. Hopefully you find this section enlightening and productive. Enjoy your readings.Table of Contents* - Audi data bus signal recognition (exposes the intricacies of diagnosing vehicle networks and how computers talk to each other.)* - Cadi idle re-learn (explains the importance of module re-learn procedure, which is done by re-adapting the ECM to a new sensor.)* - Case of the EVAPs (these emission systems are difficult to diagnose, due to their complexities.)* - Computer Data Lines (scan tools talk to the different engine modules or computers through the data line or bus. See how to diagnose this type of problem.)* - Faulty EGR operation (the EGR is in charge of lowering combustion temperatures. But issue with this system can cause ping, performance, misfire and countless other issues.)* - Lean (dirty) MAF (the lean condition comprises about 60% of all engine performance issues. Learn to deal with this situation.)* - The case of the low volume (Fuel pumps deliver both pressure and volume. If one of these is missing then the engine has problems.)* - Unsynchronized CAM & CRK signals (CAM and CRK signal synchronization is needed for the engine to start.)* - Wrong MAP reading (The manifold air pressure is a main input to the ECM. See how this sensor creates havoc with the engine.)* - The Cadi's dual crank affair (this Cadillac's engine control system has dual crank sensors. Learn to diagnose these systems.)* - Analytical misfire code (Misfires are difficult to diagnose and this case shows precisely that.)* - The misfire ghost (A case of hard to find misfire.)

OBD II Repair Strategies Mandy Concepcion

"Includes pressure/voltage/current volumes, OBD-2 code definitions & code-setting criteria"--Cover. CreateSpace

*Make Your Own Diagnostic Equipment (MYODE)*This book, "Make Your Own Diagnostic Equipment" came about from the need of many readers and viewers to be able to make and maintain fairly simple diagnostic gadgets. It is meant to show and guide the professional technician and DIY mechanic on how to make these gadgets. In many cases, due to the nature of the equipment industry, it is very expensive or virtually impossible to get these tools. The reason being is that often times tool makers don't see a profit in making these simple but effective gadgets. Most, if not all of these tools, are invaluable in diagnosing modern automotive systems. You can estimate that having one of these tools, at the right time when needed, will cut your diagnostic time by at least 50%. Of course, knowing how to use it is also important. However, by definition if you've already studied how the gadget works, how to build it an also ended up building it yourself, you've already passed the learning curve and chances are you'll know how to use it. At the very least, reading this book will put you in a much better position to also asses diagnostic issues and on the use of other important tools of automotive diagnostics. It is our hope with this work to enlighten the professional and DIY mechanic on the use, construction and operation of modern automotive diagnostic gadgets. Use this information to the best of your abilities and be on the diagnostic driver seat.Table of Contents• Automotive Low Pressure Transducer • Building the Low Pressure Transducer • Using the Low Pressure Transducer • Polarity LED Test Light • Using the Polarity LED Test Light • Stress Loaded Test Light • Using the Stress Loaded Test Light • Building the Stress Loaded Test Light • Fuel-Pump Relay & the Stress Loaded Test Light • Dual Polarity & 5 Volt Reference Test Light • Amplified Sensor Tester • Injector & Coil Magnetic Detector • Fuel Injector Pulser • ECM-ECU Memory Saver Tool• Loaded Injector Noid Light • Using the Loaded Injector Noid Light • 5 Volt Reference Simulator • Parasitic Draw Amp Meter • Using the Parasitic Draw Amp Meter • Fuse Voltage Drop Short Identifier • How to Use the Fuse Voltage Drop Short Identifier • Ignition Primary DIS - COP Probe • How to Use the Ignition Primary DIS Probe • Drive-By-Wire Motor Actuator Controller • How to Use the Drive-By-Wire Actuator Controller • Ignition Key Transponder Detector • Using the Ignition Key Transponder Detector • Magnetic Sensor Induction Simulator • Using the Magnetic Sensor Induction Simulator • O2 Sensor Simulator • Using the O2 Sensor Simulator• ABS Speed Sensor Simulator • Using the ABS Speed Sensor Simulator • ABS Speed Sensor Simulator, Bleeding the Brakes • Optical CAM and CRANK Sensor Simulator • Using the Optical CAM and CRANK Sensor Simulator • OBD-2 Data Link Connector Breakout Box • Using the OBD-2 DLC Breakout Box

Diagnostic Motor Vehicle Inspection Demonstration Projects, Program Engineering Support Springer Science & Business Media

With the ever increasing electronic content in today's vehicles, the need to be able to read automotive wiring diagrams is as important as knowing how to use the different equipments needed to perform diagnostic work. Reading wiring diagrams requires a bit of knowledge of electricity and experience. By knowing the laws and rules that govern electron flow, you can become very proficient at this endeavor. Feel free to play the DVD that compliments this book and referring back to it so that you can absorb all the information. Good luck and enjoy. 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. Table of Content Section-1 How Fuel Injectors Work Inside a fuel injector Amount of fuel supplied to the engine PEAK-and-HOLD Injector Electronic Modules and Controllers CAN and LIN Network Systems Basics Modules that Control Entire Systems Difference between current path and data path The oscilloscope or GMM (Graphing Multi Meter) Section 2 Unified Diagnostic Strategy Power Window Circuit Power Door Locks Cooling Fan Circuit Horn Circuits Cruise Control Systems Cooling Fan Circuit

Diagnostic Communication with Road-Vehicles and Non-Road Mobile Machinery SAE International

Modern vehicles have electronic control units (ECUs) to control various subsystems such as the engine, brakes, steering, air conditioning, and infotainment. These ECUs (or simply 'controllers') are networked together to share information, and output directly measured and calculated data to each other. This in-vehicle network is a data goldmine for improved maintenance, measuring vehicle performance and its subsystems, fleet management, warranty and legal issues, reliability, durability, and accident reconstruction. The focus of Data Acquisition from HD Vehicles Using J1939 CAN Bus is to guide the reader on how to acquire and correctly interpret data from the in-vehicle network of heavy-duty (HD) vehicles. The reader will learn how to convert messages to scaled engineering parameters, and how to determine the available parameters on HD vehicles, along with their accuracy and update rate. Written by two specialists in this field, Richard (Rick) P. Walter and Eric P. Walter, principals at HEM Data, located in the United States, the book provides a unique road map for the data acquisition user. The authors give a clear and concise description of the CAN protocol plus a review of all 19 parts of the SAE International J1939 standard family. Pertinent standards are illuminated with tables, graphs and examples. Practical applications covered are calculating fuel economy, duty cycle analysis, and capturing intermittent faults. A comparison is made of various diagnostic approaches including OBD-II, HD-OBD and World Wide Harmonized (WWH) OBD. Data Acquisition from HD Vehicles Using J1939 CAN Bus is a must-have reference for those interested to acquire data effectively from the SAE J1939 equipped vehicles.

Techniques on Using Automotive Diagnostic Equipment Prentice Hall

Modern vehicles have multiple electronic control units (ECU) to control various subsystems such as the engine, brakes, steering, air conditioning, and infotainment. These ECUs are networked together to share information directly with each other. This in-vehicle network provides a data opportunity for improved maintenance, fleet management, warranty and legal issues, reliability, and accident reconstruction. Data Acquisition from LD Vehicles Using OBD and CAN is a guide for the reader on how to acquire and correctly interpret data from the in-vehicle network of light-duty (LD) vehicles. The reader will learn how to determine what data is available on the vehicle's network, acquire messages and convert them to scaled engineering parameters, apply more than 25 applicable standards, and understand 15 important test modes. Topics featured in this book include: • Calculated fuel economy • Duty cycle analysis • Capturing intermittent faults Written by two specialists in this field, Richard P. Walter and Eric P. Walter of HEM Data, the book provides a unique roadmap for the data acquisition user. The authors give a clear and concise description of the CAN protocol plus a review of all 19 parts of the SAE International J1939 standard family. Data Acquisition from LD Vehicles Using OBD and CAN is a must-have reference for product engineers, service technicians fleet managers and all interested in acquiring data effectively from the SAE J1939-equipped vehicles.

OBD2 Automotive Code Encyclopedia and Cross Reference Guide Laxmi Publications, Ltd.

AUTOMOTIVE ENGINE DIAGNOSTICS, REPAIRS AND MANAGEMENT TECHNOLOGY: The Automobile Engine is the power house of the vehicle; it is responsible for supplying power to every system and component in the vehicle. Proper understanding of its operations is necessary for every mechanic and users. The diagnosis of automobile engines related fault is one of the most difficult and complex job to the automobile mechanic or technician, many make wrong guesses or mistakes. This study is to help eliminate such difficulty faced by auto techs and mechanics.CONTENT:1.AUTOMOBILE ENGINE: DIAGNOSTICS, MANAGEMENT AND REPAIR TECHNOLOGY.2.A CONVERSATION BETWEEN THE AUTO CONSULTANT AND A MECHANIC.3.SOME CLASSIFICATIONS OF AUTOMOBILE ENGINES.4.COMPONENTS AND SYSTEMS ASSOCIATED WITH THE ENGINE.5.COMPONENTS AND SYSTEMS THAT CONTROLS ENGINE PERFORMANCE.6.IGNITION SYSTEM.7.FUEL SYSTEM.8.ECU.9.COOLING SYSTEM.10.EXHAUST SYSTEM.11.ENGINE ELECTRICALS.12.CRANKING OF THE ENGINE.13.WORKING PRINCIPLE OF THE ENGINE.14.LUBRICATION. 15.THE POWERTRAIN.16.TRANSMISSION.17.TYPE OF TRANSMISSION. 18.FAULTS ASSOCIATED WITH THE TRANSMISSION SYSTEM.19.THE ECU AND TRANSMISSION.20.AUTOMOTIVE COMPUTERIZED AND ELECTRICAL DIAGNOSTICS.21.TIPS FOR DIAGNOSING ENGINE RELATED PROBLEMS.22.HOW TO PROLONG YOUR CAR ENGINE LIFE. 23.CHECK ENGINE LIGHT.24.CODE READERS AND DIAGNOSTIC SCANNERS.25.WARNING LIGHTS.26.AUTOMOBILE DIAGNOSTIC TECHNOLOGY IN AFRICA. 27.IMPORTANCE OF EVENT HISTORY IN AUTOMOBILE DIAGNOSTICS TECHNOLOGY. 28.IMPORTANCE OF REGULAR DIAGNOSTICS OPERATION.29.MECHATRONICS IN AUTOMOBILE DIAGNOSTICS TECHNOLOGY.30.ENGINE COMPUTERISED DIAGNOSTICS.31.HOW TO USE A DIAGNOSTIC TOOL/SOFTWARE.32.STEP BY STEP DIAGNOSTIC PROCEDURE.33.POWERTRAIN CONTROL MODULE (PCM).34.GENERIC DIAGNOSTIC TROUBLE CODES (DTC).35.QUIZ.36.GENERIC DIAGNOSTIC TROUBLE CODE (DTC) AND DESCRIPTIONS.

Automotive Software Engineering Independently Published

The features and amenities we've come to expect from our automobiles are achieved through onboard electronic control units which are connected together by bus systems for the exchange of data (on-board communication). Off-board communication technologies support diagnostic communication between external test equipment (OBD scan tools, HiL test systems, flash stations, workshop testers, etc.) and automotive control units. This volume explains the basics of communication principles, protocols, and various bus systems such as CAN, LIN, FlexRay, and MOST. A detailed description of the diagnostic protocol UDS (Unified Diagnostic Services) is followed by the structure of external test equipment based on the ASAM MCD system, the ISO specification of MVCI (Modular Vehicle Communication Interface), and the ODX format (Open Diagnostic Data Exchange) in minute detail. For clarity, we have included several practical examples from various stages of the process chain, including protocol development, hardware-in-the-loop systems, reprogramming by flash download to a PDA-based OBD Scan Tool, and workshop testers.

OBD-II Repair Strategies SAE International

Without vision you may not succeed, so the vision for SAE International's Dictionary of Automotive Engineering is to become the most comprehensive automotive engineering reference for professionals and students alike. This authoritative reference provides clearly written, easy-to-understand definitions for over 1,800 terms used in automotive engineering worldwide. Unlike a standard dictionary that provides only definitions, the SAE International's Dictionary for Automotive Engineers provides a unique level of details including: In-depth definitions including formulas and

equations where appropriate. Over 300 full-color illustrations to provide clarity for a definition, component, or system identification. References to relevant SAE Standards to direct the read to additional information beyond a practical definition. Coverage of newer technologies such as electric vehicles, automated vehicles, hydrogen fuel. Organized in alphabetical order, readers will find most acronyms are listed first followed by the term then the definition to mimic conventional usage of acronyms within the industry. Whether you use the print or eBook addition, SAE International's Dictionary of Automotive Engineering exceeds similar resources providing readers with comprehensive view of all SAE offers by providing SAE Standard Identification whenever appropriate. *Vehicle Sensors, Actuators, and Diagnostics* Mandy Concepcion

"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.

Automotive Electronic Diagnostics (Course-1) James Wen

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!

[Automotive Electronic Diagnostics \(course 2\)](#) Createspace Independent Publishing Platform

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 TABLE OF CONTENTS Section 1 - Basics of OBD II- What is OBD II?- Why do we need it? The Federal Test Procedure (FTP)- Technical aspects of OBD II. (FF, Monitors, Pending & Current Codes, The Drive Cycle, Re-setting Monitors, etc)- The data link connector- Diagnostic Trouble Code implementation- Resetting Monitors- What are Freeze Frames and how are they useful in diagnostics- A word about misfires- Do I need an OEM scanner or can I get by with an aftermarket scan tool?- Generic vs. 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 - 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

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