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Auto Diagnostic Tools Launch X341

Mandy Concepcion



Auto Diagnostic Tools Launch X341:

Battle for Space Curtis Peebles,1983

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 DIAGNOSTICS TOOLS 14 CRACKED SOFTWARE VERSION AND CLONED SCAN TOOLS 15 IMMOBILIZERS 16 VIN VEHICLE IDENTIFICATION NUMBER 17 SCN SOFTWARE CALIBRATION NUMBER coding 18 MULTIPLEXING 19 WARNING LIGHTS 20 SENSORS AND APPLICATIONS 21 APPLICATION OF SENSORS IN BRAKING AND STABILITY SYSTEM OF VEHICLES 22 AUTOMOBILE DIAGNOSTIC TECHNOLOGY IN AFRICA TAKING NIGERIA AS A CASE STUDY 23 IMPORTANCE OF EVENT HISTORY RECORDS IN AUTO DIAGNOSTICS TECHNOLOGY 24 IMPORTANCE OF REGULAR DIAGNOSTICS OPERATION 25 MECHATRONICS IN AUTOMOBILE DIAGNOSTICS TECHNOLOGY 26 ELECTRIC VEHICLES 27 CLASSIFICATION AND FEATURES OF DIAGNOSTIC TOOLS SCANNERS 28 GENERIC FAULT CODES 29 CHOOSING A DIAGNOSTIC TOOL SCANNER 30 HOW TO USE A DIAGNOSTIC TOOL SOFTWARE 31 STEP BY STEP DIAGNOSTIC PROCEDURE 32 REPROGRAMMING OF SYSTEMS AND COMPONENTS IN THE VEHICLE 33 STEPS TO REPROGRAM THE AIRBAG SYSTEM 34 IMMOBILIZER AND ECU REPROGRAMMING 35 PIN GENERATION FOR REPROGRAMMING 36 HOW TO REPROGRAM KEY TO THE IMMOBILIZER AND ECU 37 HOW TO GENERATE PASSCODE OR PIN FROM THE MANUFACTURER OR SERVICE PROVIDER 38 HOW DOES THE IMMOBILIZER SYSTEM WORKS 39 HOW TO DETECT AND DEAL WITH FAULTS IN THE IMMOBILIZER SYSTEM 40 VARIOUS FAULTS IN THE IMMOBILIZER SYSTEM AND SOLUTION 41 LIMITATIONS OF SOME DIAGNOSTIC TOOLS ON SCANNING AND REPROGRAMMING THE

IMMOBILIZER SYSTEM 42 HOW TO REPROGRAM THE IMMOBILIZER SYSTEM 43 HOW TO KNOW AN IMMOBILIZER UNIT IS FAULTY 44 HOW TO KNOW A FAULTY ECU 45 DIAGNOSTIC TOOL SOFTWARE FOR ECU IMMOBILIZER REPROGRAMMING 46 ELECTRICAL ERASABLE PROGRAMMABLE READ ONLY MEMORY EEPROM 47 ECU MAPPING 48 ECU TURNING 49 POWERTRAIN CONTROL MODULE PCM 50 GENERIC DIAGNOSTIC TROUBLE CODES DTC 51 GENERIC DIAGNOSTIC TROUBLE CODES DTC WITH THEIR DESCRIPTION

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 duty cycle 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 *Automotive Diagnostic Scanners* KYTHORN. WYNDEL,2025-04-08 Are you tired of expensive auto repair bills and not knowing how to troubleshoot your car's issues? Want to take control of your vehicle's health and perform your own diagnostics like a pro? *Automotive Diagnostic Scanners* is the ultimate guide for beginners showing you step by step how to use OBD II scanner tools to identify problems and save money on car repairs. Whether you're a DIY mechanic or simply want to understand what's going on under the hood, this book will empower you to take charge of your car's maintenance. In this easy to follow guide you'll discover how to Use an OBD2 scanner to read and clear engine codes understanding exactly what they mean and how to fix them. Troubleshoot your car like a professional using scan tools to identify everything from engine misfires to check engine light issues. Unlock the power of OBD II technology to monitor vehicle systems such as transmission brakes and emissions. Learn how to spot potential problems before they become major issues saving you time and money on auto repairs. Use freeze frame data to dig deeper into diagnostic results making sure no problem goes unnoticed. Make sense of manufacturer specific codes and generic codes to get precise diagnostics for any make or model. Avoid costly mechanic visits by mastering car diagnostics right from your driveway. *Automotive Diagnostic Scanners Made Easy* is perfect for beginners and DIY enthusiasts who want to understand the ins and outs of car diagnostics using OBD II scanners. With detailed easy to understand instructions this book will have you diagnosing like a professional in no time. No experience. No problem. This guide walks you through every step. Why wait for costly repairs when you can fix your car yourself? Start mastering automotive diagnostics today with this essential beginner's guide and take control of your car's performance. [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. [Automotive Diagnostic Scanners](#) Wexley

Hadrian,2025-05-16 Are you tired of relying on mechanics for every dashboard warning light Want to take control of your car's health without spending a fortune Whether you're a curious driver an aspiring DIY mechanic or a total beginner Mastering Automotive Diagnostic Scanners will show you exactly how to use an OBD2 scanner or car diagnostic tool with clarity and confidence This beginner friendly guide walks you step by step through the world of automotive diagnostics helping you understand what's going on under the hood without needing a mechanical background You'll discover how to locate and use an OBD2 scanner in any car model with ease Decode check engine light warnings and understand car trouble codes Use basic car code readers and advanced scan tools to identify real problems Avoid common mistakes when resetting codes and know when it's safe to do so Understand the difference between OBD1 and OBD2 and how vehicle diagnostics evolved Analyze battery health ABS SRS systems and even TPMS sensors Use scan data to confirm a problem and avoid false leads that waste time and money Choose between Bluetooth Wi-Fi scanners vs handheld models Compare budget vs premium tools and find the best fit for your needs Learn how to perform oil reset services read readiness monitors and much more Written in a clear conversational tone this book is designed for readers who want to feel empowered and informed not overwhelmed Whether you're searching for a car maintenance guide a DIY car repair manual or just want to stop guessing when your dashboard lights up this guide is your first step to mastering your vehicle

Automotive Scan Tool PID Diagnostics Mandy Concepcion,2022-02-16 **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 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 Resetting 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 *How to Use AUTOMATIC DIAGNOSTIC SCANNER* Rory J Ortiz,2024-05-27 Staying ahead in the continuously changing world of automobile technology necessitates not just mechanical abilities but also knowledge of the most recent diagnostic instruments How to Use an Automatic Diagnostic Scanner is your comprehensive guide to understanding these important gadgets that are transforming automobile maintenance and repair This thorough book explains the usage of automatic diagnostic scanners providing a simple step by step guide to understanding and maximizing their potential From seasoned mechanics to vehicle enthusiasts How to Use AUTOMATIC DIAGNOSTIC SCANNER is suitable for all levels of experience It begins with an overview of the many types of diagnostic scanners currently on the market including their characteristics functions and compatibility with different car models You ll learn about the key components of these devices and how they work with a vehicle s onboard computer systems to effectively identify problems One of the book s standout features is its practical hands on approach Detailed chapters walk you through the setup procedure including attaching the scanner to your car and understanding the data it generates You ll discover straightforward instructions supported by detailed graphics allowing you to confidently run diagnostics and quickly identify problems Furthermore How to Use an Automatic Diagnostic Scanner covers more than simply diagnostics It has sophisticated features like as live data monitoring component testing and software updates to keep your scanner up to speed with the newest automotive innovations By acquiring these abilities you will save time and money minimizing your reliance on expensive expert services Benefits of Understanding How to Use an Automatic Diagnostic Scanner Improved Diagnostic Accuracy Learn the specifics of your diagnostic scanner to obtain precise and accurate results resulting in better

troubleshooting and repairs Time and Cost Efficiency Learn how to rapidly detect and handle vehicle faults dramatically decreasing the time spent on diagnostics and the need for costly expert services Increased Self Sufficiency Develop the confidence to handle a wide range of automobile problems on your own reducing dependency on outside assistance and improving your abilities Up to Date expertise Stay updated on the newest automotive diagnostic technology and upgrades to ensure your expertise remains relevant in a fast paced business Comprehensive Understanding Learn how diagnostic scanners function from fundamental operations to complex capabilities so you can make educated decisions and make the best use of your instrument By purchasing How to Use AUTOMATIC DIAGNOSTIC SCANNER you are not only purchasing a book but also gaining access to a wealth of information that will change the way you approach vehicle repair Whether you re a professional mechanic wishing to improve your abilities or a car owner wanting to better understand your vehicle this book is a wonderful resource Don t pass up the opportunity to become skilled with automated diagnostic scanners and advance your automotive knowledge to the next level CLICK THE BUY BUTTON TO GET YOURS NOW AND UNDERSTAND EVERY BASICS PROS AND CONS OF USING AN AUTOMATIC DIAGNOSTIC SCANNER Equip yourself with the information and skills required to stay competitive in the automotive industry **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 **Advanced Automotive Fault Diagnosis** Tom Denton,2020-09-22 Diagnostics Test don t guess Learn all the skills you need to pass Level 3 and 4 Vehicle Diagnostics courses from IMI City Guilds and BTEC as well as ASE AUR and other higher level qualifications Along with 25 new real life case studies this fifth edition of Advanced Automotive Fault Diagnosis includes new content on diagnostic tools and equipment VCDS decade boxes scanners pass through sensor simulators break out boxes multimeter updates for HV use and more It explains the fundamentals of vehicle systems and components and it examines diagnostic principles and the latest techniques employed in effective vehicle maintenance and repair Diagnostics or faultfinding is an essential part of an automotive technician s work and as automotive systems become increasingly complex there is a greater need for good diagnostic skills Ideal for students included throughout the text are useful definitions key facts and safety first notes This text will also assist experienced technicians to further improve their performance and keep up with recent industry developments **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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Stories from the Road 6 Mandy Concepcion, 2012-05-28

Stories from the Road 6 A Narrative About Modern Automotive Diagnostics An Automotive Case Studies Series By Mandy Concepcion This book Stories from the Road Automotive Case Studies is a real work in action about the intricacies of modern automotive diagnostics It is based on actual real life situations From this book you may extract real life lessons which will help you as an automotive aficionado DIY mechanic and professional technician The work is divided

into narrated stories representing real life applications of diagnostic technology equipment usage repair techniques and knowledge based information Here you ll get input on how to use the automotive scan tool OBD 2 ECM PCM readers oscilloscope graphing multi meter signal tone injector and many other diagnostic tools You ll also get deep insights on testing all kinds of sensors and actuators such as injectors solenoids transmission components motors fuel pumps CAM and crank sensors TPS MAF Knock and pretty much every component seen today All the content is presented on a narrated story like format to make the knowledge easy and fun to comprehend With that in mind enjoy your readings Table of contents Stories from the Road 6 Content Looking into an Escalade s Mind A Cadillac Escalade with a strange IAC code Well it s the IAC inside the MAF sensor Follow this diagnostic path into the inner depths of automotive diagnostics from scan tool PID analysis and beyond See what happened Mysteriously Revving Lincoln LS The electronic throttle control system or drive by wire accelerator control is now here to stay See a complete diagnostic path for this cableless throttle control system Follow this case from using the scanner on PID analysis the oscilloscope and then analyzing signal waveforms Learn from this case Monte Carlo s Nervous Meltdown A vehicle with loss of power engine stalling and erratic idle surge is exactly what was happening to this Chevy Was it the MAF sensor TPS or some other component causing the issue Was it an idle issue or also seen at higher RPMs See the entire diagnostic path and also using an array of auto diagnostic equipment Find out what happened next Nissan Altima s Cross Identity Crisis That s right a Nissan with what you could call double personality See how an ingenuous auto repair and diagnostic path was used to get to the issue Shown with dedicated diagrams and animations to prove the case and present the case to you Also get the scoop on using the Fox and Hound for electrical diagnostics Nissan Maxima s Burning Bush A surging idle speed issue with a difficult to detect origin After replacing various parts the shop ran out of options and called in the expert See hoe this popular stepper motor component was inoperable and the diagnostic path to repair Follow this case from a simple scan to deep ECM diagnostics using various equipment Nissan that Wouldn t Cool Down Yes a hot Nissan but to the engine the climate control system That s right this A C compressor did not want to turn ON no matter what and it was fully computerized The auto diagnostic path was not as easy as one would think In fact this issue proved a high tech diagnostic and tough to detect see what happened Noisy Neighbor An erratic engine on a Ford Explorer where the TPS and ECM had already been replaced What could it be See the whole auto repair path and learn to interpret scan PID graphs scope waveforms and analyze wiring issue Get the whole story here BONUS The AFR or air fuel ratio sensor circuit The newer wide band or A F R O2 sensor solves the narrow sensing problem of the previous Zirconium sensors These sensors are often called by different names Learn how they work and how to test them

Automotive Electronic Diagnostics (course 2) Mandy Concepcion,2012-02-15 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 Automotive Electronic Diagnostics (course 1) Mandy Concepcion, 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 *OBD II Scan Tool Vehicle E E System Diagnostic Standards Committee,1998* This SAE Recommended Practice defines the requirements of OBD II scan tools i e test equipment that will interface with vehicle modules in support of the OBD II diagnostic requirements It covers the required capabilities of and conformance criteria for OBD II scan tools *Stories from the Road 9* Mandy Concepcion,2012-10-06 This book *Stories from the Road Automotive Case Studies* is a real work in action about the intricacies of modern automotive diagnostics It is based on actual real life situations From this book you may extract real life lessons which will help you as an automotive aficionado DIY mechanic and professional technician The work is divided into

narrated stories representing real life applications of diagnostic technology equipment usage repair techniques and knowledge based information Here you ll get input on how to use the automotive scan tool OBD 2 ECM PCM readers oscilloscope graphing multi meter signal tone injector and many other diagnostic tools You ll also get deep insights on testing all kinds of sensors and actuators such as injectors solenoids transmission components motors fuel pumps CAM and crank sensors TPS MAF Knock and pretty much every component seen today All the content is presented on a narrated story like format to make the knowledge easy and fun to comprehend With that in mind enjoy your readings Table of contents Stories from the Road 9 Content The PTC Learning Curve What s a PTC Found on Dodge vehicles it is here to stay and can through a diagnostic out of bounce This vehicle would start then stall and afterwards it would not start again until some time had passed The ECM was replaced but nothing worked See what this case diagnostic can tech you The Sputtering Malibu A Chevy with a drivability complaint and a misfire code that was hard to diagnose See how this diagnostic developed from using a Tech 2 factory scanner to the logical path that made the tech repair the issue The Tachometer Coil Affair A no spark condition on a Dodge but what does that have to do with a tachometer Ignition and coil assemblies were replaced but the issue remained See how it all worked out from dedicated CG video diagrams to expose the issue Also get a grip on using the graphing multi meter to solve this repair case Toyota it Wasn t Me Injector A great engine swap gone bad What appeared to be a good running engine all of a sudden when buzzers See how this diagnostic was approached and what the ECM was seeing using various tools See how thing got crazy and took the case in the wrong direction Toyota s Ignition Octopus Misfire issues on today s crowded engines are time consuming See how The Octopus or a special tool used for ignition diagnostic was employed and how diagnostic time was reduced to a minimum by this tool usage Trans Am Rocker Poker Issue A Trans Am having a misfire issue and the shop replaced parts galore The shop went through all the diagnostic channels like compression electrical test but thing worked A powerful tool was employed here from the tech s arsenal of tools See how it was used to check ignition and solve the final issue VW Golf on the Rough This VW ran fine for miles but then would start to run rough The ECM Hall Effect and O2 sensor was replaced but to no avail This diagnostic was started by monitoring the most vital signals for starting See how a chain of events unfolded to correct this issue Who Quit First A Ford with a complaint of hesitation upon acceleration The venerable complete tune up was performed This series video runs you through a complete analysis on ignition system waveform interpretation It also explain other concepts highly desirable in today s vehicle diagnostic Zapping the Air Control Signal A Chevy Camaro with absolutely no codes and an idle control issue Learn how the IAC Counts were used during diagnostics To top it all off this issue was intermittent Get a big scoop on scanner PID interpretation and how to use the data stream to find vehicle issues See how it all developed

OBD 2 Automotive Repair Strategies Mandy Concepcion,2011-06-14 **Standardization of Automotive Diagnostic Systems** ,1972 *Advanced Automotive Fault Diagnosis* Tom Denton,2006-08-14

Diagnostics or fault finding is a fundamental part of an automotive

technician s work and as automotive systems become increasingly complex there is a greater need for good diagnostic skills Advanced Automotive Fault Diagnosis is the only book to treat automotive diagnostics as a science rather than a check list procedure Each chapter includes basic principles and examples of a vehicle system followed by the appropriate diagnostic techniques complete with useful diagrams flow charts case studies and self assessment questions The book will help new students develop diagnostic skills and help experienced technicians improve even further This new edition is fully updated to the latest technological developments Two new chapters have been added On board diagnostics and Oscilloscope diagnostics and the coverage has been matched to the latest curricula of motor vehicle qualifications including IMI and C Level 4 diagnostic units BTEC National and Higher National qualifications from Edexcel International Motor Vehicle qualifications such as C and ASE certification in the USA

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