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Engine Code Manual OBD-II & Electronic Engine Management Systems OBD-II & Sistemas de Control Electronico del Motor Automotive Engine Diagnostics, Repairs and Management Technology How To Use Automotive Diagnostic Scanners Popular Mechanics United States Code Code of Federal Regulations OBDII Diagnostic Popular Mechanics Advanced Automotive Fault Diagnosis Popular Mechanics The big Acura Check Engine Book Auto Body Repair Technology Mazda MX-5 Miata 1.8 1993 to 1999 Popular Mechanics Automotive Computer Controlled Systems Automotive Computerized and Electrical Diagnostics Technology Popular Mechanics Automotive Diagnostic Systems Fluid Engine Development Schedule B. Statistical Classification of Domestic and Foreign Commodities Exported from the United States Lubricant Analysis and Condition Monitoring SAE On-board Diagnostics for Light and Medium Duty Vehicles Standards Manual Code of Federal Regulations Vehicle Electronic Systems and Fault Diagnosis Popular Mechanics The Code of Federal Regulations of the United States of America Understanding Automotive Electronics Vehicle Electronic Systems and Fault Diagnosis Popular Mechanics R Markdown Cookbook Human Dignity and the Kingdom of Ends OBD II Repair Strategies Information Circular Chilton's Engine Electronic Control Manual 1978-87 Popular Science The Camaro Performance R Markdown Advanced Automotive Engine Performance

R Markdown: The Definitive Guide is the first official book authored by the core R Markdown developers that provides a comprehensive and accurate reference to the R Markdown ecosystem. With R Markdown, you can easily create reproducible data analysis reports, presentations, dashboards, interactive applications, books, dissertations, websites, and journal articles, while enjoying the simplicity of Markdown and the great power of R and other languages. In this book, you will learn Basics: Syntax of Markdown and R code chunks, how to generate figures and tables, and how to use other computing languages Built-in output formats of R Markdown: PDF/HTML/Word/RTF/Markdown documents and ioslides/Slidy/Beamer/PowerPoint presentations Extensions and applications: Dashboards, Tufte handouts, xaringan/reveal.js presentations, websites, books, journal articles, and interactive tutorials Advanced topics: Parameterized reports, HTML widgets, document templates, custom output formats, and Shiny documents. Yihui Xie is a software engineer at RStudio. He has authored and co-authored several R packages, including knitr, rmarkdown, bookdown, blogdown, shiny, xaringan, and animation. He has published three other books, Dynamic Documents with R and knitr, bookdown: Authoring Books and Technical Documents with R Markdown, and blogdown: Creating Websites with R Markdown. J.J. Allaire is the founder of RStudio and the creator of the RStudio IDE. He is an author of several packages in the R Markdown ecosystem including rmarkdown, flexdashboard, learnr, and radix. Garrett Grolmund is the co-author of R for Data Science and author of Hands-On Programming with R. He wrote the lubridate R package and works for RStudio as an advocate who trains engineers to do data science with R and the Tidyverse. Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle. Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle. The complete manual for understanding engine codes, troubleshooting, basic maintenance and more. Almost all mechanical devices used in every industry require lubrication. Lubricant Analysis and Condition Monitoring explains the benefits of identifying, planning, implementing and using lubricant and machine condition monitoring programmes to extend the lifetimes of both lubricants and machines, to achieve maximum productivity and profitability while reducing impacts on waste and the environment. This book: Offers a comprehensive overview of all types of tests used in lubricant condition monitoring programmes Discusses monitoring the condition of all types of components, machines, equipment and systems used in all industries Considers new and emerging machines, equipment and systems, including electric and hybrid vehicles Suggests which tests to use for each type of machine, equipment or system and, just as importantly, which tests not to use Provides practical examples of how to set up, run and manage condition monitoring programmes and how to achieve significant cost savings through planned and predictive maintenance schedules Gathering vital information that users of lubricants need in one place, this book is of practical use to mechanical, maintenance, manufacturing and marine engineers as well as metallurgists, chemists and maintenance technicians. Following the success and critical acclaim of Veloce's original manual for the MX-5 1.6 (Miata 1.6 in USA), we've once again got our hands oily to bring the reader a new manual on the 1.8 model. Just like its predecessor this new book is phenomenally detailed, covering the car from front bumper to rear tailpipe in an informative, helpful and easy to understand manner. Every detail of important repair and maintenance jobs is covered, including how to overcome problems without resorting to special tools. packed with step-by-step photographs and useful line drawings. No owner can afford to be without his unique manual. Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle. The average car now contains much more electronic circuitry than would have been the case, even five years ago. This leaves many technicians struggling to keep up with current developments in the repair and maintenance of these electronic systems. Often, texts covering vehicle electronics dwell on unnecessary maths and general electronics principles. This practical guide discusses electronics only within the context of the vehicle system under consideration and thus keeps theory to a minimum. Using numerous diagrams, photographs and step by step instructions, this book gives a clear description of vehicle electronic systems and fault diagnosis and then continues on to the testing and repair of these systems. Regular reviews and summaries help consolidate learning and make this book ideal for workshop and classroom use. 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 behind its operation. The reader 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. Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle. Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better. Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle. Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle. 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&G Technical Certificates and NVQs; Level 4 diagnostic units; BTEC National and Higher National qualifications from Edexcel; International Motor Vehicle qualifications such as C&G 3905; and ASE certification in the USA. Essentially all automotive electrical systems are effected by the new electrical system voltage levels. As in all previous editions, this revision keeps Understanding Automotive Electronics up-to-date with technological advances in this rapidly evolving field. *Discusses the development of hybrid/electric vehicles and their associated electronic control/monitoring systems *Contains the new technologies incorporated into conventional gasoline and diesel-fueled engines *Covers the shift from 14-volt to 42-volt systems and includes info on future automotive electronic systems 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 Advanced Automotive Engine Performance is designed to prepare novice technicians for the challenge of diagnosing today's highly technical electronic engine controls. Using this curriculum, learners will gain familiarity with the operation and variations of emissions systems and associated onboard monitors. The curriculum especially focuses on applying diagnostic strategy to and performing service procedures for emissions systems faults. Learners will also develop an understanding of IM testing and an ability to interpret IM test reports to aid in diagnosis. This objective-based curriculum will prepare learners for the challenges of servicing engine management systems in the shop today. This is a complete curriculum solution for Advanced Automotive Engine Performance. Online courseware is available and is rich in video and animation to support understanding of complex systems. This solution is available in print-plus-digital, or digital-only offerings, providing eBook and online course pairing with mobile-friendly adaptability. Complete tests, task sheets, and instructor resources make this curriculum easy to adopt and integrate into any automotive program. Includes changes entitled Public bulletin. 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. "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. This book gives a sufficient grounding in mechanics for engineers to tackle a significant range of problems encountered in the design and specification of simple structures and machines. It also provides an excellent background for students wishing to progress to more advanced studies in three-dimensional mechanics. The industry-leading textbook for collision repair and refinishing is now updated to the NATEF 2006 Collision Repair and Refinish Program Standards. Written with clearer explanations and more detail than any other collision repair learning tool on the market, Auto Body Repair Technology, Fifth Edition delves into all aspects of collision repair, from initial collision evaluation, to estimating, to final paint detailing. And because the book is written by a leading author in the auto body field, readers will feel confident that they are learning skills and procedures that incorporate the latest advances in materials and methods. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. This book advances our understanding of the nature, grounds and limits of human dignity by connecting it with Kant's notion of an ideal moral community, or "Kingdom of Ends". It features original essays by leading Kant scholars and moral and political philosophers from around the world. Although Kant's influential injunction to treat humanity as an end in itself and never merely as a means has garnered the most attention among those interested in analyzing human dignity with a Kantian lens, Kant himself places much more emphasis on the Kingdom of Ends as crucial for defining human dignity. The chapters in this collection focus not only on interpretive issues related to the Kingdom of Ends but also on practical applications that have the potential to advance discussions about the nature and foundations of rights, the content of moral principles, the importance of moral ideals and attitudes and the nature of moral motivation. Exploring and connecting the ideas of human dignity and the Kingdom of Ends significantly deepens our moral understanding, advances discussions in moral and political philosophy and enhances our appreciation of Kant's moral theory. Human Dignity and the Kingdom of Ends: Kantian Perspectives and Practical Applications will appeal to scholars and advanced students of Kant, moral philosophy, political philosophy, and political theory. This new book written by the developers of R Markdown is an essential reference that will help users learn and make full use of the software. Those new to R Markdown will appreciate the short, practical examples that address the most common issues users encounter. Frequent users will also benefit from the wide ranging tips and tricks that expose 'hidden' features, support customization and demonstrate the many new and varied applications of the software. After reading this book users will learn how to: Enhance your R Markdown content with diagrams, citations, and dynamically generated text Streamline your workflow with child documents, code chunk references, and caching Control the formatting and layout with Pandoc markdown syntax or by writing custom HTML and LaTeX templates Utilize chunk options and hooks to fine-tune how your code is processed Switch between different language engineers to seamlessly incorporate python, D3, and more into your analysis '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. From the splash of breaking waves to turbulent swirling smoke, the mathematical dynamics of fluids are varied and continue to be one of the most challenging aspects in animation. Fluid Engine Development demonstrates how to create a working fluid engine through the use of particles and grids, and even a combination of the two. Core algorithms are explained from a developer's perspective in a practical, approachable way that will not overwhelm readers. The Code Repository offers further opportunity for growth and discussion with continuously changing content and source codes. This book helps to serve as the ultimate guide to navigating complex fluid animation and development. Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle. 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 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 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, 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 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government. 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 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. 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!

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