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SAE On-Board Diagnostics for Light and Medium Duty Vehicles Standards Manual 1999 Edition

OBD II Diagnostic Strategies

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Encyclopedia of Forensic Sciences

(GM) Domestic Automotive Transmission Troubleshooter and Reference

OBD 2 Automotive Repair Strategies

Fault Code Manual

Automotive Computerized and Electrical Diagnostics Technology

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Automotive Scan Tool PID Diagnostics

Fixing Cars Using OBD II

OBDII Diagnostic Fault Codes

Automotive Diagnostic Systems

Automotive User Interfaces

OBD2 Automotive Code Encyclopedia and Cross Reference Guide

Automotive Diagnostic Fault Codes Techbook

OBD-II: Functions, Monitors and Diagnostic Techniques
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Automotive Code-to-Flowchart Repair (Ford)
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Encyclopedia of Automotive Engineering
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Modeling and Control of Engines and Drivelines
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Manuals

This brand new title in the Today's Technician Series covers the
advanced topics of drivability, emissions testing, and engine

diagnostics in depth. This new book features a thorough study of
On-Board-Diagnostic generation II (OBD II) Continuous Monitors
and Non-Continuous Monitors strategies, a chapter on Emission
Control and Evaporative Systems, OBD II generic Diagnostic
Trouble Codes identification and diagnosis, and Malfunction
Indicator Light Strategies. Advanced use of On-Board Diagnostic
Scanners and Digital Storage Oscilloscopes is also discussed.
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Obd2 Scanner Code Reader For All Vehicles LOG John Wiley & Sons

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

SAE On-Board Diagnostics for Light and Medium Duty Vehicles Standards Manual 1999 Edition Createspace Independent Publishing Platform

(GM) Domestic Automotive Transmission Troubleshooter and Reference A reference and pictorial guide for automotive transmissions (Including General Motors Vehicles) By MANDY CONCEPCION The beginnings of this book (GM) came about after

the development of the "Transmission Troubleshooter" software package, which eventually became part of the "TransDoctor" PC based diagnostic equipment. Both of these related products, although meant for the professional side of the industry, left behind a huge arsenal of data that matched perfectly with the needs of the average consumer, DIY and mechanic aficionado. We assumed that his information, so far as the general public was concerned, did not necessitate to be part of a broad software package and therefore could be offered at a lower cost to the public. This book covers automotive Transmission diagnostics and electronic repair for the GM side of domestic vehicles. The information was amassed during years of field work and research in the automotive industry. For this reason, the information is presented in a direct, hands on approach and skips the basic operation of automotive transmissions. If you're trying to discern the basics of automotive automatic transmissions, then there are other works that could help you do that. This book is meant to be used during real-life repair situations and it exposes you to exactly what you need to know to solve or get an in-depth knowledge of a specific problem. Various concepts are covered such as Transmission DTCs or trouble codes, Transmission ID, shift solenoid locations, component locations, electrical and wiring diagrams and finally measurement values for voltage and resistance. We hope you enjoy reading this work to gain knowledge and solve specific problems. So, without further ado, enjoy... Table of Contents Generic OBD-2 Transmission DTC (code) Listing General Motors Transmission Application 4L30E, 4L60E, 4L80E, 5L50E, 4T40E, 4T60E, 4T80E - (Transmission application) GM Transmissions Component Operation 4L30E,

4L60E, 4L80E, 5L50E, 4T40E, 4T60E, 4T80E - (component operation) GM Transmission Oil Pan (ID) Identification 4L30E, 4L60E, 4L80E, 5L50E, 4T40E, 4T60E, 4T80E - (ID or oil pan identification) GM Shift Solenoids and Electrical Component Testing 4L30E - 4L60E - 4L80E - 5L50E - 4T40E - 4T60E - 4T80E - Shift Solenoids, TCC Solenoid, Pressure Control Solenoid (EPC), TPS, TCM Test, Pressure Switches GM Component Location, Valve Body and Check-Ball Positioning 4L30E - 4L60E - 4L80E - 5L50E - 4T40E - 4T60E - 4T80E - (component location/diagram, valve body photo, check-ball diagram) General Motors Shifting Truth-Tables 4L30E, 4L60E, 4L80E, 5L50E, 4T40E, 4T60E, 4T80E - (shifting truth tables or shifting combination) General Motors Wiring Diagrams 4L30E, 4L60E, 4L80E, 5L50E, 4T40E, 4T60E, 4T80E - (wiring diagrams)

OBD II Diagnostic Strategies Motorbooks

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

OBDII Diagnostic John Wiley & Sons

Repairing modern vehicles can be expensive. Throw parts at a problem and hoping you guessed right isn't an option. You will usually run out of money before guesses. What is the right way to diagnose a running problem? Fix that check engine light? What kinds of tools are required to do a proper diagnosis? What kinds of test can be performed to determine the source of the engine performance issue? How do you go about properly diagnosing OBDII system failures? Whether you are a seasoned technician, a beginner or a Do It Yourselfer, the information contained in this

book can help you make diagnosing OBDII driveability concerns easier. Guessing is no longer an option.

Encyclopedia of Forensic Sciences Academic Press

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

(GM) Domestic Automotive Transmission Troubleshooter and Reference CreateSpace

Ring bound instructor guide for use with book Getting to Know OBD II- Pages referenced with thumbnails for use with 154 color slides in PDF format. Includes 25 question final test.

OBD 2 Automotive Repair Strategies Cengage Learning

The third edition of the unparalleled reference on natural ingredients and their commercial use This new Third Edition of Leung's Encyclopedia of Common Natural Ingredients: Used in

Food, Drugs, and Cosmetics arrives in the wake of the huge wave of interest in dietary supplements and herbal medicine resulting from both trends in health and the Dietary Supplement and Health Education Act of 1994 (DSHEA). This fully updated and revised text includes the most recent research findings on a wide variety of ingredients, giving readers a single source for understanding and working with natural ingredients. The Encyclopedia continues the successful format for entries listed in earlier editions (consisting of source, description, chemical composition, pharmacology, uses, commercial preparations, regulatory status, and references). The text also features an easily accessible alphabetical presentation of the entries according to common names, with the index cross-referencing entries according to scientific names. This Third Edition also features: More than 50 percent more information than the Second Edition, reflecting the greatly increased research activity in recent years A new section on traditional Indian medicine, with information on nine commonly used herbs More than 6,500 references Two new appendices explaining and illustrating the botanical terminology frequently encountered in the text A revised and expanded index Leung's Encyclopedia of Common Natural Ingredients: Used in Food, Drugs, and Cosmetics, Third Edition will continue to provide a comprehensive compilation of the existing literature and prominent findings on natural ingredients to readers with an interest in medicine, nutrition, and cosmetics.

Fault Code Manual Kotzig Publishing

(Content updated) Agri-Tools Manufacturing 1. Market Overview: The Agri-Tools Manufacturing industry is a vital part of the

agriculture sector, providing essential equipment and machinery to support farming operations. Growth is driven by the increasing demand for advanced and efficient farming tools to meet the rising global food production requirements. 2. Market Segmentation: The Agri-Tools Manufacturing market can be segmented into several key categories: a. Hand Tools: • Basic manual tools used for tasks like planting, weeding, and harvesting. b. Farm Machinery: • Larger equipment such as tractors, Plows, and combines used for field cultivation and crop management. c. Irrigation Equipment: • Tools and systems for efficient water management and irrigation. d. Harvesting Tools: • Machinery and hand tools for crop harvesting and post-harvest processing. e. Precision Agriculture Tools: • High-tech equipment including GPS-guided machinery and drones for precision farming. f. Animal Husbandry Equipment: • Tools for livestock management and animal husbandry practices. 3. Regional Analysis: The adoption of Agri-Tools varies across regions: a. North America: • A mature market with a high demand for advanced machinery, particularly in the United States and Canada. b. Europe: • Growing interest in precision agriculture tools and sustainable farming practices. c. Asia-Pacific: • Rapidly expanding market, driven by the mechanization of farming in countries like China and India. d. Latin America: • Increasing adoption of farm machinery due to the region's large agricultural sector. e. Middle East & Africa: • Emerging market with potential for growth in agri-tools manufacturing. 4. Market Drivers: a. Increased Farming Efficiency: • The need for tools and machinery that can increase farm productivity and reduce labour costs. b. Population Growth: • The growing global population requires

more efficient farming practices to meet food demands. c. Precision Agriculture: • The adoption of technology for data-driven decision-making in farming. d. Sustainable Agriculture: • Emphasis on tools that support sustainable and eco-friendly farming practices. 5. Market Challenges: a. High Initial Costs: • The expense of purchasing machinery and equipment can be a barrier for small-scale farmers. b. Technological Adoption: • Some farmers may be resistant to adopting new technology and machinery. c. Maintenance and Repairs: • Ensuring proper maintenance and timely repairs can be challenging. 6. Opportunities: a. Innovation: • Developing advanced and efficient tools using IoT, AI, and automation. b. Customization: • Offering tools tailored to specific crops and regional needs. c. Export Markets: • Exploring export opportunities to regions with growing agricultural sectors. 7. Future Outlook: The future of Agri-Tools Manufacturing looks promising, with continued growth expected as technology continues to advance and the need for efficient and sustainable agriculture practices increases. Innovations in machinery and equipment, along with the adoption of precision agriculture tools, will play a significant role in transforming the industry and addressing the challenges faced by the agriculture sector. Conclusion: Agri-Tools Manufacturing is a cornerstone of modern agriculture, providing farmers with the equipment and machinery they need to feed a growing global population. As the industry continues to evolve, there will be opportunities for innovation and collaboration to develop tools that are not only efficient but also environmentally friendly. Agri-tools manufacturers play a critical role in supporting sustainable and productive farming practices, making them essential contributors

to the global food supply chain.

Automotive Computerized and Electrical Diagnostics Technology Cartech

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.

Encyclopedia of Business ideas Createspace Independent Publishing Platform

This book focuses on automotive user interfaces for in-vehicle usage, looking at car electronics, its software of hidden technologies (e.g., ASP, ESP), comfort functions (e.g., navigation, communication, entertainment) and driver assistance (e.g., distance checking). The increased complexity of automotive user

interfaces, driven by the need for using consumer electronic devices in cars as well as autonomous driving, has sparked a plethora of new research within this field of study. Covering a broad spectrum of detailed topics, the authors of this edited volume offer an outstanding overview of the current state of the art; providing deep insights into usability and user experience, interaction techniques and technologies as well as methods, tools and its applications, exploring the increasing importance of Human-Computer-Interaction (HCI) within the automotive industry Automotive User Interfaces is intended as an authoritative and valuable resource for professional practitioners and researchers alike, as well as computer science and engineering students who are interested in automotive interfaces.

How To Use Automotive Diagnostic Scanners Haynes

Manuals N. America, Incorporated

Automotive book for obd2 scanner Record all faults vehicle

Obdii Diagnostics Made Easy Springer

This DIY manual covers everything you need to know about automotive diagnostic fault codes.

OBD II Repair Strategies Routledge

All cars, domestic and foreign, sold in the U.S. from 1996 on must meet the latest and strictest federal emissions control standards, know as OBD II. Today's automotive technicians must know how to deal with a sophisticated, computer-controlled engine that burns less fuel, produces more power, and releases less pollutants into the atmosphere.

Automotive Scan Tool PID Diagnostics Independently

Published

"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.

Fixing Cars Using OBD II Columbia University Press

Forensic science includes all aspects of investigating a crime, including: chemistry, biology and physics, and also incorporates countless other specialties. Today, the service offered under the guise of "forensic science" includes specialties from virtually all aspects of modern science, medicine, engineering, mathematics and technology. The Encyclopedia of Forensic Sciences, Second Edition, Four Volume Set is a reference source that will inform both the crime scene worker and the laboratory worker of each other's protocols, procedures and limitations. Written by leading scientists in each area, every article is peer reviewed to establish clarity, accuracy, and comprehensiveness. As reflected in the specialties of its Editorial Board, the contents covers the core theories, methods and techniques employed by forensic scientists - and applications of these that are used in forensic analysis. This 4-volume set represents a 30% growth in articles from the first edition, with a particular increase in coverage of DNA and digital forensics Includes an international collection of contributors The second edition features a new 21-member editorial board, half of which are internationally based Includes over 300 articles, approximately 10pp on average Each article features a) suggested readings which point readers to additional

sources for more information, b) a list of related Web sites, c) a 5-10 word glossary and definition paragraph, and d) cross-references to related articles in the encyclopedia Available online via SciVerse ScienceDirect. Please visit www.info.sciencedirect.com for more information This new edition continues the reputation of the first edition, which was awarded an Honorable Mention in the prestigious Dartmouth Medal competition for 2001. This award honors the creation of reference works of outstanding quality and significance, and is sponsored by the RUSA Committee of the American Library Association

OBDII Diagnostic Fault Codes CreateSpace

The beginnings of this book came about from the development of various different products, including the Scan-1 Scan-Tool Diagnostic System and the OBD-2 secret weapon diagnostic software by the same author. After development a large amount of information had been accumulated and it was then decided to put it on a book series. All DTCs we acquired from a large bank of ECMs converted to test the development of the Scan-1. As a result, the backward engineering of the DTCs was possible and allowed us to compile the largest selection of factory codes (DTCs) on record. All DTC definitions in this book series are the result of such development. Coincidentally from our OBD-2 secret weapon software, we derived the technology to develop easy to understand flowcharts. Although these products did not have flowcharts, the program algorithm or logic allowed us to convert into flowcharts fairly quick. Our flowcharts were developed by our team from our software and equipment technology. You won't find these flowcharts, which often tend to be useless from

manufacturer data, anywhere else. Here we present an easy and fast way to tackle electronic diagnostic and repair issues, which apply to both the DIY and professional technician as well. Our book series cover Domestic, Asian and European makes and it is by far the most complete in way of information. This book series can be used for training as well as during repair work.

Enjoy...IMPORTANT: This book only covers FORD vehicles. See our other books in this series for a different manufacturer. Table of Contents * LEAN Condition (includes DTCs covered)* MAF Sensor Wiring Diagram* (MAF) Mass-Air-Flow Repair Flowchart* CAM/CRK Sensor Wiring Diagram* CAM/CRK (Magnetic) Position Sensor Flowchart* CAM/CRK (Hall-Effect) Position Sensor Flowchart* O2 Sensor Heater Wiring Diagram* O2 Sensor Heater Test (Flowchart)* (AFR) Heater Wiring Diagram* (AFR) Heater Flowchart Repair* O2 Sensor Response Test (Except AFR)* AFR Sensor Response Test* MAP Sensor Flowchart Coverage* MAP (Boost) Sensor Wiring Diagram* MAP Sensor Test* TPS Sensor Flowchart Coverage* TPS (Boost) Sensor Wiring Diagram* TPS Sensor Test* APP Sensor Flowchart Coverage* APP Sensor Wiring Diagram* APP Sensor Test* ECT Sensor Flowchart Coverage* ECT Sensor Wiring Diagram* ECT Sensor Test* Knock Sensor Flowchart Coverage* Knock Sensor Wiring Diagram* Knock Sensor Test* FRP Sensor Flowchart Coverage* FRP Sensor Wiring Diagram* FRP Sensor Test* Intake Valve Control Solenoid Flowchart Coverage* Intake Valve Control Solenoid Wiring Diagram* Intake Valve Control Solenoid Test* Exhaust Valve Control Solenoid Flowchart Coverage* Exhaust Valve Control Solenoid Wiring Diagram* Exhaust Valve Control Solenoid Test* Generic OBD-2 Code Definitions* FORD Factory OBD-2 Code

Definitions

Automotive Diagnostic Systems John Wiley & Sons

Automotive Scan Tool PID Diagnostics (Diagnostics Strategies of Modern Automotive Systems) By Mandy Concepcion In this section, the different techniques of scan tool parameter (PID) analysis will be exposed. Techniques involving PID analysis are quickly catching on, due to their speed and accuracy. By properly analyzing the different scanner PIDs, the technician can arrive at the source of the problem much faster and accurately. These procedures give rise to the new term "driver seat diagnostics", since most of the preliminary diagnostic work is done through the scanner. However, these techniques will in no way replace the final manual tests that are a part of every diagnostic path. They are simply geared to point the technician in the right direction.

Table of Contents INTRODUCTION (Introduction to scan tool diagnostics and the relevance of using PIDs or scanner parameter to perform the first leg of all diagnostics.) - Theory of Operation Behind the Different PIDs (Describes CARB, the difference between generic and enhanced PIDs, the FTP) - OBD II Generic PIDs (PID calculated and actual values, calculated data relationships, base injection timing, ECM value substitution) - OBD I & II General PID analysis (erasing code-or not, recording, analyzing and pinpoint tests, separating PIDs into groups) - Fuel Delivery Fault Detection (fuel delivery issues, intake air temp. sensor, BARO sensor, Engine LOAD, RPM PID, Short-Term Fuel Trims, Long-Term Fuel Trims, 60% of check engine light issues, block learn/integrators, Example 1: injector fault, Example 2: intake gasket issues, fuel status, ignition timing, MAP/MAF, TPS, O2 sensor, IAC, Closed Throttle, injector pulse width, voltage

power, injector dutycycle, fuel trim cell) - Test #1 (Determining an engine's fuel Consumption (rich-lean operation, duty-cycle to fuel trim relationship, O2 sensor to fuel trim relation, FT and vacuum leaks, ignition timing and idle control, test conclusion) - Test # 2 (Misfire Detection Strategy, EGR, Ignition and Mechanical misfires) (misfires and OBD2, scanner misfire detection - a time saver, OBD2 40 and 80 cycle misfire, ignition, injector and EGR density misfire, coil-on-plug, misfires and O2 sensor, lean O2 & Secondary misfire, O2 sensor & injector misfires, leaky injector, EGR and the MAP, Type A, B, C misfires, test conclusion) - Test # 3 (Air/Fuel Ratio Faults) (air-fuel imbalance, MAF and post O2 sensors, open-closed-loop, fuel enable, HC & CO relation to AF issues, test conclusion) - Test # 4 (BARO, MAP & MAF PID analysis) (MAP & valve timing faults, ECM behavior, fuel delivery or duty cycle test, volumetric efficiency, , test conclusion) - Test # 5 (Clogged exhaust) (clogged catalytic converter detection, TPS, MAF and converters, idle and WOT or wide open throttle values, vacuum readings, MAP to WOT chats 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 User Interfaces Independently Published
"Includes pressure/voltage/current volumes, OBD-2 code definitions & code-setting criteria"--Cover.

OBD2 Automotive Code Encyclopedia and Cross Reference Guide CarTech Inc

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

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GENERIC DIAGNOSTIC TROUBLE CODES (DTC) WITH THEIR
DESCRIPTION.

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