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Series, provides students with the technical background, diagnostic strategies, and repair procedures they need to successfully repair engines in the shop. Focused on a "strategy-based diagnostics" approach, this book helps students master diagnosis in order to properly resolve the customer concern on the first attempt. AUTOMOTIVE MAINTENANCE AND LIGHT REPAIR (AM&LR), Second Edition, is designed for automotive programs accredited in ASE Education Foundation's Maintenance & Light Repair (MLR) program standards. Unlike many textbooks, this practical guide is accessible for a wide range of entry-level automotive students because it is written at a tenth-grade reading level. Each chapter includes integrated learning features, such as Word Walls to encourage mastery of important technical and industry terminology, and ASE review questions to help students prepare for professional certification exams. Both the core textbook and accompanying workbook feature material covering the entire MLR task list, as well as many supplemental tasks often expected of entry-level technicians. This versatile structure makes it easy for instructors to customize lesson plans and assignments based on the skills and knowledge of their students. In addition to engaging students with a lively writing style and abundant images and illustrations, AM&LR provides a solid grounding in both automotive

competencies and applied academic and lifelong learning skills, including math, science, and communication. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Cheating the Dealer is Steven Shaw's way of informing consumers of the real dealership world. Customers will finally be armed with the knowledge and tools to ensure a winning experience at the dealership. Cheating the Dealer is single handedly changing the view of the American buying public. Keep an eye on your vehicle and write down important details that you might forget! Take care of it with our log book and many different tabs to fill with information like: Oil changed, Air filter, Tire replaced, Fuel filter, Brakes serviced, Batteries, Mileage and many more. Keep it always with you - the compact size of 5.5x8.5 will fit anywhere you might need it. Spacious - you get 108 pages to write in, one with named tabs and another one for other maintenances with descriptions. Helpful - whenever you want to service your car or sell it, this log book will do the job. Take a quick "look inside" option on your left and see if that's the service book you're looking for - I'm sure it is. This textbook will help you learn all the skills you need to pass Level 3 and 4 Vehicle Maintenance and Repair courses from City and Guilds, IMI and BTEC, and is also ideal for higher level ASE, AUR and other qualifications. Advanced Automotive Fault

Diagnosis covers the fundamentals of vehicle systems and components and explains the latest diagnostic techniques employed in effective vehicle maintenance and repair. Diagnostics, or fault finding, is an essential part of an automotive technician's work, and as automotive systems become increasingly complex there is a greater need for good diagnostics skills. For students new to the subject, this book will help to develop these skills, but will also assist experienced technicians in further improving their performance and keeping up with recent industry developments. In full colour and including examples of the latest technology, this is the guide that no student enrolled on an automotive maintenance and repair course should be without. Featuring many new additions and revisions, the fully updated Sixth Edition of AUTOMOTIVE SERVICE: INSPECTION, MAINTENANCE, REPAIR is the ideal resource to help learners develop the knowledge and skills they need to succeed in a range of automotive careers. This best-selling guide covers all eight major areas of automotive technology, combining clear explanations and detailed, high-quality illustrations to help readers master theory related to vehicle systems operations, plus step-by-step instructions for hands-on troubleshooting and repair procedures. Reviewed by teachers and industry experts for technical accuracy, and aligned to the latest ASE Education Foundation

requirements, the new edition is perfect for learners enrolled in programs accredited by the ASE Education Foundation, as well as individuals who want to develop critical-thinking skills for career success. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Car Maintenance Log Book: Auto Log Book This Ultimate Automotive Maintenance Record Book. For use with all vehicles, makes and models. DETAILS: - 100 Pages - Size 6x9 Inches - Full Functional for Keep log of your car such as Log Date, Mileage, Repairs And Maintenance, Journey Road Trip Log. Track: -Log The following Maintenance And More * Oil Changed * Rotate/Balance Tires * Tires Replaced * Wheel Alignment * Air Filter * Fuel Filter * Brakes Serviced * Spark Plugs * Transmission * Wiper Blades * Batteries * Belts & Hoses * Radiator Other Maintenance * Date * Mileage * Cost (\$) * Description -Vehicle and Owner Information -Insurance Information -Emergency Roadside Kit Checklist Technical instructor and HVAC expert Jerry Clemons completely covers both air-conditioning as well as heating systems, so you can save money repairing your own vehicle. Covered is a history of HVAC systems, airflow throughout the system, the principles of refrigerant, diagnosis of common faults in older systems, testing procedures, and finally repair and, in the case of air

conditioning, recharging your system. Also included is proper evacuation and disposal of any residual refrigerant in the system. Components such as compressors, condensers, evaporators and heater cores, pressure switches and climate control electrics and switches are also covered. Finally, for people with older cars, converting from the no-longer-available R-12 to R134a is detailed. Automotive climate controls are a complex system and are difficult to repair without proper instruction. Whether you are trying to get your old classic back to its original form or are just looking to save on expensive repairs, author Jerry Clemons and this book provide the knowledge you will need to get your car back on the road and cruising in comfort. Automotive Computer Network Repair (Diagnostic Strategies of Modern Automotive Systems) By Mandy Concepcion In this book we will cover the intricacies of automotive inter-module communication systems or networks. The scope of this section will also go beyond the normal needs of an automotive technician. Hence, this will probably be the most difficult part of this series to comprehend. Be patient and open minded. Always give yourself time to absorb the knowledge and do not be discouraged. Special emphasis will be placed on the CAN system (Controller Area Network), since it is now the standard. CAN is one of the 9 OBD-2 protocols. A protocol is an agreement on communications interchange. It

is in essence a computer communication language and specifies signaling, wiring, size of cables used, who controls the network and voltage levels. Various protocols were used in the past, some proprietary and some generic such as ISO 9141 and SAE 1850 VPW, but the standard is now the CAN protocol. Virtually all vehicle networks now talk to each other though the CAN protocol. It is now common place to see the seat belt, SRS-Airbag, transmission, ABS-Brakes, engine and radio modules or computer talking to each other through the network. Ever wondered why your radio volume goes up when you accelerate the vehicle? That's the engine computer or module telling the radio to raise the volume due to a higher RPM and hence higher ambient noise. It is also common to see a non-shifting transmission due to a faulty network and the issue not being related to the transmission at all. Hopefully this book will shed some light on the operation and knowledge needed to tackle automotive networks in today's vehicles..... Enjoy. Table of Contents 1. INTRODUCTION * - Automotive inter-module communication systems or networks * - Asian, Domestic and European Vehicles * - Fully Networked vehicles. 2. THE NEED FOR IN-VEHICLE NETWORKING * - Use of electrical and electronic components * - Networked automotive sensors. * - Sharing of sensor information * - Weight savings and the simpler wiring harnesses * - Networking and modular

systems 3. THE NEED FOR PROTOCOLS * - CAN or Controller Area Network communication protocol * - CLASS A - Low speed * - CLASS B - Medium speed * - CLASS C - High speed * - SAE (Society of Automotive Engineers) * - ISO (International Standards Organization) * - What is a Gateway? 4. NETWORKING ESSENTIALS * - the 7-layer ISO/OSI reference model * - PHYSICAL LAYER * - DATA LINK LAYER * - APPLICATION LAYER * - Medium Access * - CARRIER SENSE MULTIPLE ACCESS or CSMA * - Network latency * - The Topology of a network * - The STAR topology * - The BUS topology * - The TREE topology * - The RING topology 5. DIFFERENT COMMUNICATION NETWORK * - The CCD data bus (Chrysler Collision Detection) * - CCD bus ground * - CCD bus bias voltage * - OEM scan tool (DRB III) * - NO TERMINATION message fault * - The PCI bus (Programmable Communications Interface) * - A CSMA/CD media access scheme * - The Header, DATA, CRC, IFR and EOF elements * - DCL (Data Communications Link) * - circuit 914 and 915 * - SCP (J1850) (Standard Corporate Protocol) * - Dual wire twisted pair bus topology * - The ISO 9141 protocol * - The NGS "DATA LINK DIAGNOSTICS" menu option * - GM (Data Line) UART Serial Communications * - UART data line communications * - GM CLASS 2 data bus * - State of health messages * - The Tech-2 scanner has a dynamic menu configuration * - The Tech-2's

PING-ALL-MODULES 6. CAN (Controller Area Network) * - implementation of the CAN protocol * - 11 bit and 29 bit identifier * - EPA approved for MY 2003 and up * - CAN A, B and C * - MID and PID CAN identifiers * - Master time-keeper-node * - Drive-by-wire systems * - Byteflight, Flexray, and Time-triggered CAN or TTCAN * - The CAN Data-Frame * - The CAN bus-access arbitration * - SOF (start-of-frame) bit * - Control bit * - Arbitration bits * - Data bits * - EOF or end of frame bit Updated to reflect the latest technology in the automotive industry, this book will provide the knowledge and skills needed to successfully inspect, maintain, and repair vehicles of all makes and models. Automotive Service: Inspection, Maintenance, and Repair, 3E begins by introducing readers to a number of automotive career options, shop management basics, plus necessary tools and equipment. The book then progresses to the theories of vehicle systems operations and includes step-by-step procedures for troubleshooting and repairing all major systems of the modern automobile. Updates include coverage of new vehicle technology like EVAP systems, on-board diagnostics and emissions, alternative fuels, and hybrid vehicles, making this book not only comprehensive but also current so that readers can feel confident they are learning the very latest in industry trends and techniques. The single most authoritative information resource available today, "Auto

Body Repair Technology, 4E explains all aspects of collision repair more clearly and in greater detail than any other collision repair book. Its 7 sections and 29 newly up-to-date chapters allow readers to gain modern professional skills as well as the technical know-how needed to tackle everything from initial collision evaluation through estimating and final paint detailing! Fully updated, all procedures incorporate the latest advances in materials and methods for doing competent repair work on late model vehicles. Valuable information on ASE certification and entrepreneurship is also included to guide readers to success in their first job and/or when starting their own auto body repair businesses. After disassembling and gutting your car, it is easy to feel that you're in way over your head when it comes to the upholstery. This is why so many do-it-yourself restorers outsource the work, at considerable expense, to an experienced upholstery shop. Taking the time to acquire the skills for upholstery restoration may feel like a daunting task, but what if an experienced upholsterer presented every skill you needed to restore upholstery yourself? Starting with a list of necessary tools, author Fred Mattson guides you through all the required tasks, including seat restoration; door panel removal, patterning, assembly, and installation; headliner removal and installation; carpet cutting; and even convertible top restoration. The easy-to-follow step-by-step

presentation allows for a thorough understanding of all the processes. Every photo in this book provides a hands-on approach that shows you how to repair and restore a car's interior to concours, show-quality specifications. Other restoration books may show you beautifully restored interiors, but they don't show you how to produce them. This book helps you develop the skills needed with instruction from a professional upholsterer, saving you thousands of dollars over outsourcing the restoration. If you are interested in saving money, doing a complete restoration yourself, or simply want to know how it's done, this book is a handy addition to your automotive library. DIVYour one-stop manual for every aspect of DIY motorcycle electrical repair and modification./divDIV/divDIVWe've all stood at the front desk of a repair shop at some point, staring at an invoice, gritting our teeth and nursing our injured wallets. All vehicles will inevitably need maintenance—and we pay a premium in labor fees every time we take them in—but unlike an automobile, which has its electrical components hermetically sealed within its bodywork, the electrical components on a motorcycle are on display for all the world to see. Out in the open, they are constantly subjected to destructive elements like rain, sand, salt, dust, and ultraviolet rays . . . virtually everyone who owns a motorcycle will eventually have to deal with electrical problems. In How to

Troubleshoot, Repair, and Modify Motorcycle Electrical Systems, motorcycle expert Tracy Martin provides crystal-clear, fully illustrated, step-by-step instructions for every electrical repair imaginable on a bike—from the nuts-and-bolts basics to fuel-injection systems, onboard computers, repair and installation of factory and aftermarket accessories, and everything else in between. Complete with 600 full-color, how-to photos and 20 helpful diagrams, How to Troubleshoot, Repair, and Modify Motorcycle Electrical Systems will keep your bike on the road and your wallet in your pocket. For many people, a well-maintained automobile is a source of pride and peace of mind. But for others, the idea of routine maintenance is daunting. How to Make Your Car Last Forever will guide you through the minefield of preventative maintenance, repair, extended warranties, and magic elixirs that claim to cure everything from oil consumption to male-pattern baldness! Author, car repair expert, and host of satellite radio show America's Car Show with Tom Torbjornsen, Tom Torbjornsen has seen it all in his 40 years in the automobile industry. Let him show you how to extend the life of your car indefinitely. In How to Make Your Car Last Forever, he explains the what, when, and why's of automotive maintenance and repairs in easy-to-understand terms. Simple how-to projects supplement the learning with step-by-step instructions that will save you time and money.

While you may not want your car to last forever, Torbjornsen's advice will help you preserve it indefinitely while maximizing resale value down the road. Preventative maintenance is the key to the automotive fountain of youth. Let Tom Torbjornsen show you the way! 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 checklist 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. Who wants to shell out money for

maintenance and repairs that can easily be done at home? Teach Yourself VISUALLY Car Care & Maintenance walks you through the various tasks that don't require expensive equipment or years of expertise. Crystal-clear instructions show you how to change oil and other fluids; rotate tires; replace fuel pumps, air filters, and batteries; and much more. Plus, an easy maintenance guide helps you keep track of recommended service and maintenance tasks at key mileage and time intervals. Concise two-page lessons show you all the steps to a task and are ideal for quick review. Each task is defined and described. Detailed color photos demonstrate each step. Step-by-step instructions accompany each photo. Helpful tips provide additional guidance. For the horse power fan! Vehicle Maintenance Log Book to record your vehicle's service and repairs. For use with all vehicles, makes and models, domestic and imports! Easy to use for quick reference. Track: Vehicle and Driver Information, Service and Repairs, Monthly Maintenance/Safety Check, Oil Changes, Road Trips, Roadside Kit Checklist, Insurance, Dates, Parts, Costs and More! Great addition when if you sell your vehicle. 105 Pages. 6"X9" Paperback - Perfect for the glove compartment, toolbox or seat pocket. Matte Finish Soft Cover for an Elegant Look and Feel. Stay Organized With This Ultimate Automotive Maintenance Record Book. Great for Birthday and Christmas! "Complete

information to help you keep your car in top running order (thereby preventing big repair bills), and how to repair your car if something does go wrong... Furthermore, there's information on how to make your tires, battery, cooling system, paint, body metal--virtually every part of your car--last longer"--from front jacket flap. Vehicle and Driver Information, Service and Repairs, Monthly Maintenance/Safety Check, Oil Changes, Road Trips, Roadside Kit Checklist, Insurance, Dates, Parts, Costs and More! Great addition when if you sell your vehicle. This Vehicle Maintenance Log Book features: *6" x 9" matte cover paperback book with 120 pre-formatted pages to record information about maintenance procedures, vehicles service and repairs. *Unique present idea for automobile, cars, truck, motorcycle owner, driver, automechanic, mechanic, husband, dad on Birthday or Christmas. *Great size to carry with you or keep in your glove box. This logbook helps you to keep track of all essential repairs and maintenance tasks. Log all your Vehicle Procedures on detailed forms like: *Oil Changed*Rotate / Balance Tires*Tire Replaced*Wheel Alignment*Air Filter*Fuel Filter*Spark Plugs*Brakes Serviced*Transmission*Wiper Blades*Batteries*Radiator*Belts / Hoses Vehicle and Driver Information, Service and Repairs, Monthly Maintenance/Safety Check, Oil Changes, Road Trips, Roadside Kit Checklist, Insurance, Dates,

Parts, Costs and More! Great addition when if you sell your vehicle. This Vehicle Maintenance Log Book features: *6" x 9" matte cover paperback book with 120 pre-formatted pages to record information about maintenance procedures, vehicles service and repairs. *Unique present idea for automobile, cars, truck, motorcycle owner, driver, automechanic, mechanic, husband, dad on Birthday or Christmas. *Great size to carry with you or keep in your glove box. This logbook helps you to keep track of all essential repairs and maintenance tasks. Log all your Vehicle Procedures on detailed forms like: *Oil Changed*Rotate / Balance Tires*Tire Replaced*Wheel Alignment*Air Filter*Fuel Filter*Spark Plugs*Brakes Serviced*Transmission*Wiper Blades*Batteries*Radiator*Belts / Hoses This Vehicle Maintenance Log Book features: 6" x 9" matte cover paperback book with 110 pre-formatted pages to record information about maintenance procedures, vehicles service and repairs. Unique present idea for automobile, cars, truck, motorcycle owner, driver, automechanic, mechanic, husband, dad on Birthday or Christmas. Great size to carry with you or keep in your glove box. This logbook helps you to keep track of all essential repairs and maintenance tasks. Log all your Vehicle Procedures on detailed forms like: Oil Changed Rotate / Balance Tires Tire Replaced Wheel Alignment Air Filter Fuel Filter Spark Plugs Brakes

Serviced Transmission Wiper Blades Batteries Radiator Belts / Hoses 'The Complete Idiot's Guide to Auto Repair Illustrated' covers everything readers need to know about their automobiles, from the tires up. Tailor-made for true novices, it shows them how to make some of the most basic repairs themselves, and teaches them enough to feel confident that they'll never be taken for a ride by a mechanic again. More than 300 easy-to-understand illustrations and a 50-page self-diagnosis guide organized for quick identification of what's wrong. New- and used-car warranty information. Step-by-step illustrated instructions on how to conduct routine maintenance. An overview of how each system (steering and suspension, cooling, electrical) works. Vehicle Maintenance Log Book Keep track of your maintenance procedures, vehicle service, and repairs with this simple maintenance log book. This comprehensive resource provides detailed content on the theory of operation, diagnosis, repair, and rebuilding of automotive engines. Students will gain essential technical expertise as they develop the skills and knowledge they need for professional success, including critical thinking and awareness of key industry trends and practices. AUTOMOTIVE ENGINES: DIAGNOSIS, REPAIR, AND REBUILDING, Eighth Edition, emphasizes universal repair techniques and case histories based on real-world scenarios to prepare users for careers in the field.

Instructor resources include lesson plans, customizable lab sheets that address ASE Education Foundation Standards, a customizable test bank with questions based on chapter content, PowerPoint presentations, and more. Now updated with new, full-color images and information on the latest trends, tools, and technology--including hybrid engines and high-performance components--this trusted text is the ideal resource for automotive program instructors who want a complete teaching package for their Engines course.

Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. This Vehicle Maintenance Log Book features: matte cover paperback book with 110 pre-formatted pages to record information about maintenance procedures, vehicles service and repairs. Unique present idea for automobile, cars, truck, motorcycle owner, driver, automechanic, mechanic, husband, dad on Birthday or Christmas. Great size to carry with you or keep in your glove box. This logbook helps you to keep track of all essential repairs and maintenance tasks. Vehicle maintenance. Auto Repair For Dummies, 2nd Edition (9781119543619) was previously published as Auto Repair For Dummies, 2nd Edition (9780764599026).

While this version features a new Dummies cover and design, the content is the same as the prior release and should

not be considered a new or updated product. The top-selling auto repair guide--400,000 copies sold--now extensively reorganized and updated Forty-eight percent of U.S. households perform at least some automobile maintenance on their own, with women now accounting for one third of this \$34 billion automotive do-it-yourself market. For new or would-be do-it-yourself mechanics, this illustrated how-to guide has long been a must and now it's even better. A complete reorganization now puts relevant repair and maintenance information directly after each automotive system overview, making it much easier to find hands-on fix-it instructions. Author Deanna Sclar has updated systems and repair information throughout, eliminating discussions of carburetors and adding coverage of hybrid and alternative fuel vehicles. She's also revised schedules for tune-ups and oil changes, included driving tips that can save on maintenance and repair costs, and added new advice on troubleshooting problems and determining when to call in a professional mechanic. For anyone who wants to save money on car repairs and maintenance, this book is the place to start. Deanna Sclar (Long Beach, CA), an acclaimed auto repair expert and consumer advocate, has contributed to the Los Angeles Times and has been interviewed on the Today show, NBC Nightly News, and other television programs. It's a familiar story. A simple

accident in the drive-way results in cracked and broken bodywork that costs thousands of dollars to replace, often costing more than the vehicle may be worth. Few repair shops or Do-It-Yourselfers have been interested or had the wherewithal to attempt plastic repairs, leaving no options but part replacement on an otherwise perfectly serviceable machine. In fact, insurance rates on some motorcycles and snowmobiles have skyrocketed because of the high cost of replacing broken plastic. How To Repair Plastic Bodywork by Kurt Lammon solves this common dilemma with easy-to-follow directions applicable to any plastic repair, including cars, motorcycles, trucks, ATV's and snowmobiles. Lammon shows the reader how to assess the damage and determine whether it can be repaired, then provides step-by-step procedures for identifying the kind of plastic from which the part is made, and fixing everything from a simple scratch to a major break. Included is a comprehensive resources guide for tools and materials. As today's cars continue to become more complicated and complex, the cost to repair them has continued to climb. However, with some basic knowledge and a little know-how, many of the most expensive repairs can be avoided by simple, regular maintenance, or relatively inexpensive repairs that can be done with a few tools and step-by-step instructions. Car expert, Dave Stribling, has seen every repair in the book,

and in *Idiot's Guides: Auto Repair and Maintenance*, he arms readers with the knowledge they'll need to troubleshoot and diagnose common problems and make simple repairs that are universal to most makes and models. Dozens of step-by-step, full-color photos and illustrations make DIY car repairs and maintenance so much easier. When the repair calls for an expert the time comes to take the car to the shop, Dave arms readers with the knowledge they'll need to make the right choices, to avoid unnecessary repairs, and

to minimize the possibility of getting ripped off. A complete guide for car and truck owners who want to preserve a vehicle's new appearance outlines comprehensive, step-by-step cosmetic projects that cover everything from spills and scratches to dents and smells. Original. "This 3rd Edition (c) 2013 has been updated and is now in FULL COLOR! Auto Upkeep is an introductory automotive book that provides the fundamental knowledge and experience in owning and maintaining an automobile. From choosing an insurance policy to performing

basic maintenance and repair, *Auto Upkeep* is the do-it-yourself automotive guide for the driver in you. *Auto Upkeep* helps keep you safe and your vehicle reliable by providing easy-to-follow information with detailed pictures and drawings. Discover how to choose a quality repair facility, buy a car, handle roadside emergencies, diagnose common problems, and communicate effectively with technicians all while saving money. For the full experience, purchase the *Auto Upkeep* textbook and workbook." -- from publisher's website.