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An engine control unit (ECU) also commonly called an engine control module (ECM), is a type of electronic control unit that controls a series of actuators on an internal combustion engine to ensure optimal engine performance. . . Here at ECU-SHOP we specialise in the test & repair of Engine Control Units, BSI/BCM modules, instrument clusters, electronic power steering columns, ABS modules and much more for a wide range of vehicles.

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The ECU Repairs Genius is a generic test rig which can be configured to test virtually any type of automotive ECU (Engine Control Unit) by means of a dedicated test harness and load box for the specific type of ECU under test. The rig is controlled by means of a graphical interface on a computer, connected by means of a serial data link.

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Automotive ECU Testing - ECU Repair and Exchange

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Book ECU Repair - ECU Testing and repair specialise in testing & repair of Engine Control Units, BSI / BCM Airbag ABS and convenience modules for all modules and makes of vehicle. pcm engine control unit primary control module, ecu replacement, ecu repair - ECU EXPRESS TESTING & REPAIR.

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The ECU (Engine Control Unit) oversees a number of vital engine functions and maintains top performance and economy. However, correct ECU diagnosis requires specialist software, which is where WhoCanFixMyCar.com come in. Tell us what's wrong and receive competitive quotes for your ECU Repair from experienced local specialists.

Vauxhall ECU Repairs in London | Who Can Fix My Car

The ECU, aka ecm or PCM is a complicated device that is not repaired out in the field. Techs replace it when everything else has been eliminated as a source of the problem. Ecms are repaired by specialist?. This is the same as repairing your? PC or smart phone's internal board.

Where can I learn to repair a car's ECU? - Quora

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Book Your Mechanic Now Nothing Happening? Fastlane Autocare can perform ECU testing, decoding and repair. ... An engine control unit (ECU) is a type of electronic control unit that controls a series of engine components including actuators on the engine to ensure optimal performance. It does this by reading values from a multitude of sensors on ...

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Automotive Vehicle Strategies and ECM Modes(Diagnostic Strategies of Modern Automotive Systems)By Mandy ConcepcionThis book is divided into two sections, "Vehicle Operational Strategies", which detail what's needed for an engine to start. In other words, this section concentrates on the signals needed for a particular manufacturer to make the engine run. These signal strategies are true regardless of the system and the section simply zeros in on the actual signal, whether it's a distributor, DIS, COP, etc. The second section is the "ECM operational modes" and goes into details on why and how the ECM does what it needs to do to run the engine. In other words, this section has to do with the behavior of the ECM according to outside conditions.VEHICLE OPERATIONAL STRATEGIESThis section is designed to serve as a functional guide to some of the more difficult to diagnose faults. It basically came about from the trial and error experimentation with different systems, during the diagnostic process. It is not a study section per se, but will definitely enlighten the technician as to the logics of different systems on the market today. Hopefully, it will serve to pinpoint the source of an actual problem.ECM OPERATIONAL MODES In this section, we'll take a look at automotive OPERATIONAL MODES. The section deals with the specifics of internal ECM programming strategies. The knowledge gained here will aid the modern technician in deciphering why the ECM is functioning in a specific way. This section, as in other parts of this book, helps to answer the technician's diagnostic basic question "What is the ECM seeing, that's causing it to do what it does?"Table of ContentsVEHICLE OPERATIONAL STRATEGIES- HONDA IGNITION & INJECTION STRATEGY- MAZDA IGNITION STRATEGY- MAZDA EEC IV IGNITION STRATEGY- MITSUBISHI/HYUNDAI IGNITION STRATEGY- NISSAN IGNITION STRATEGY- NISSAN COP IGNITION STRATEGY- TOYOTA IGNITION STRATEGYECM OPERATIONAL MODES• CRANKING ENRICHMENT MODE• ENGINE WARM-UP MODE• OPEN-LOOP MODE• CLOSE-LOOP MODE• ACCELERATION ENRICHMENT MODE• DECELERATION ENLEANMENT MODE• IDLE SPEED CONTROL MODE• LOW VOLTAGE CORRECTION MODE• CLEAR FLOOD MODE• SELECTIVE FUEL INJECTOR CUT-OFF MODE• LIMP-HOME MODE• EXHAUST VARIABLE VALVE TIMING/EGR CONTROL MODE

Keith McCord recounts the history of automotive onboard diagnostic systems and creation of the rudimentary OBD I systems and the development as well as the evolution of OBD II. Currently, OBD-II (OnBoard Diagnostic II) is the standard of the industry, and this book provides a thorough explanation of this system. It details its main features, capabilities, and characteristics. It shows how to access the port

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connector on the car, the serial data protocols, and what the serial data means. To understand the diagnostic codes, the numbering system is defined and the table of common DTCs is shown. But most importantly, 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.

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.

Modern cars are more computerized than ever. Infotainment and navigation systems, Wi-Fi, automatic software updates, and other innovations aim to make driving more convenient. But vehicle technologies haven't kept pace with today's more hostile security environment, leaving millions vulnerable to attack. The Car Hacker's Handbook will give you a deeper understanding of the computer systems and embedded software in modern vehicles. It begins by examining vulnerabilities and providing detailed explanations of communications over the CAN bus and between devices and systems. Then, once you have an understanding of a vehicle's communication network, you'll learn how to intercept data and perform specific hacks to track vehicles, unlock doors, glitch engines, flood communication, and more. With a focus on low-cost, open source hacking tools such as Metasploit, Wireshark, Kayak, can-utils, and ChipWhisperer, The Car Hacker's Handbook will show you how to:

- Build an accurate threat model for your vehicle
- Reverse engineer the CAN bus to fake engine signals
- Exploit vulnerabilities in diagnostic and data-logging systems
- Hack the ECU and other firmware and embedded systems
- Feed exploits through infotainment and vehicle-to-vehicle communication systems
- Override factory settings with performance-tuning techniques
- Build physical and virtual test benches to try out exploits safely

If you're curious about automotive security and have the urge to hack a two-ton computer, make The Car Hacker's Handbook your first stop.

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,

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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!

Takes engine-tuning techniques to the next level. It is a must-have for tuners and calibrators and a valuable resource for anyone who wants to make horsepower with a fuel-injected, electronically controlled engine.

From electronic ignition to electronic fuel injection, slipper clutches to traction control, today's motorcycles are made up of much more than an engine, frame, and two wheels. And, just as the bikes themselves have changed, so have the tools with which we tune them. How to Tune and Modify Motorcycle Engine Management Systems addresses all of a modern motorcycle's engine-control systems and tells you how to get the most out of today's bikes. Topics covered include: How fuel injection works Aftermarket fuel injection systems Open-loop and closed-loop EFI systems Fuel injection products and services Tuning and troubleshooting Getting more power from your motorcycle engine Diagnostic tools Electronic throttle control (ETC) Knock control systems Modern fuels Interactive computer-controlled exhaust systems

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.

Looks at the combustion basics of fuel injection engines and offers information on such topics as VE equation, airflow estimation, setups and calibration, creating timing maps, and auxiliary output controls.

When it's time to wire your car, whether it's a restoration project, race car, kit car, trailer, or street rod, don't be intimidated; wire it yourself. Jim Horner shares his years of experience and cuts through the technical jargon to show you how. Learn about basic electrical theory, how various electrical components work and drawing circuit diagrams. Includes tips on using electrical test equipment and troubleshooting electrical circuits. Choose the right components, build your own wiring harness, and install them by following the step-by-step instructions. Profusely illustrated with over 350 photos, drawings, and diagrams. Suppliers list included.

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