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Automotive Scan Tool PID Diagnostics

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(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

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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

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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

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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,

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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,

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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

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#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)

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(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,

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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

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conclusion) - Test # 5 (Clogged
exhaust) (clogged catalytic converter
detection, TPS, MAF and converters,
idle and WOT or wide open throttle
values, vacuum readings, MAP to
WOT charts analysis, engine and MAP
vacuum, test conclusion) - Test # 6

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(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?,

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Source Shop 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

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Service, 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)

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Electrical codes, standards,

recommended practices and regulations can be complex subjects, yet are essential in both electrical design and life safety issues. This book demystifies their usage. It is a handbook of codes, standards, recommended practices and

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regulations in the United States

involving electrical safety and design.

Many engineers and electrical safety professionals may not be aware of all of those documents and their applicability. This book identifies those documents by category, allowing the ready and easy access to the relevant

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requirements. Because these documents may be updated on a regular basis, this book was written so that its information is not reliant on the latest edition or release of those codes, standards, recommended practices or regulations. No single document on the market today

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attempts to not only list the majority of relevant electrical design and safety codes, standards, recommended practices and regulations, but also explain their use and updating cycles. This book, one-stop-information-center for electrical engineers, electrical safety professionals, and designers,

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does. Covers the codes, standards,
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regulations in the United States
involving electrical safety and design,
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the relevant requirements Not version-specific; information is not reliant on the latest edition or release of the codes, standards, recommended practices or regulations

Direct injection enables precise control of the fuel/air mixture so that engines

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can be tuned for improved power and fuel economy, but ongoing research challenges remain in improving the technology for commercial applications. As fuel prices escalate DI engines are expected to gain in popularity for automotive applications. This important book, in two volumes,

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reviews the science and technology of different types of DI combustion engines and their fuels. Volume 1 deals with direct injection gasoline and CNG engines, including history and essential principles, approaches to improved fuel economy, design, optimisation, optical techniques and

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their applications. Reviews key technologies for enhancing direct injection (DI) gasoline engines Examines approaches to improved fuel economy and lower emissions Discusses DI compressed natural gas (CNG) engines and biofuels

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Understanding DC Circuits covers the first half of a basic electronic circuits theory course, integrating theory and laboratory practice into a single text. Several key features in each unit make this an excellent teaching tool: objectives, key terms, self-tests, lab experiments, and a unit exam.

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Understanding DC Circuits is designed with the electronics beginner and student in mind. The authors use a practical approach, exposing the reader to the systems that are built with DC circuits, making it easy for beginners to master even complex concepts in electronics while gradually

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building their knowledge base of both theory and applications. Each chapter includes easy-to-read text accompanied by clear and concise graphics fully explaining each concept before moving onto the next. The authors have provided section quizzes and chapter tests so the readers can

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monitor their progress and review any sections before moving onto the next chapter. Each chapter also includes several electronics experiments, allowing the reader to build small circuits and low-cost projects for the added bonus of hands-on experience in DC electronics. Understanding DC

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Circuits fully covers dozens of topics including energy and matter; static electricity; electrical current; conductors; insulators; voltage; resistance; schematic diagrams and symbols; wiring diagrams; block diagrams; batteries; tools and equipment; test and measurement;

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Series circuits; parallel circuits;
magnetism; electromagnetism;
inductance; capacitance; soldering
techniques; circuit troubleshooting;
basic electrical safety; plus much
more. Integrates theory and lab
experiments Contains course and
learning objectives and self-quizzes

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It isn't enough to be able to design. It isn't even enough to be able to debug. To be a real fault finder, you must be able to get a feel for what is going on in the circuit you are examining. In this book Robin Pain explains the basic

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techniques needed to be fault finder. Simple circuit examples are used to illustrate principles and concepts fundamental to the process of fault finding. This is not a book of theory. It is a book of practical tips, hints, and rules of thumb, all of which will equip the reader to tackle any job, whether it

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is fixing a TV, improving the sound from a hi-fi, or locating the fault in a piece of process equipment. You may be an engineer or technician in search of information and guidance, a college student, a hobbyist building a project from a magazine, or simply a keen self-taught amateur who is interested in

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electronic fault finding but finds books on the subject too mathematical or specialised. But you have one thing lacking, no fault-finding strategy.

Seasoned professional designers have that peculiar knowledge of their own work and specialised knowledge of its components to allow them to analyse

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Service Shop Manual and remove faults quickly on the spot (design errors take a little longer!).

Fault finders can never have this depth of specialisation; commercial pressures demand a minimum-knowledge-to-do-the-job approach.

Practical Electronic Fault Finding and Troubleshooting describes the

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fundamental principles of analog and digital fault finding (although of course there is no such thing as a 'digital fault' - all faults are by nature analog). This book is written entirely for a fault finder using only the basic fault-finding equipment: a digital multimeter and an oscilloscope. The treatment is non-

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mathematical (apart from Ohm's Law) and all jargon is strictly avoided. Robin Pain was originally trained to service colour TV, and has worked as an industrial fault finder for manufacturers of mobile radio, audio equipment, microcomputers and medical equipment. He has lectured at home

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and abroad on microcomputer fault
finding.

ARM-based Microcontroller Projects
Using mbed gives readers a good
understanding of the basic architecture
and programming of ARM-based
microcontrollers using ARM's mbed

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software. The book presents the technology through a project-based approach with clearly structured sections that enable readers to use or modify them for their application.

Sections include: Project title, Description of the project, Aim of the project, Block diagram of the project,

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Circuit diagram of the project,
Construction of the project, Program
listing, and a Suggestions for
expansion. This book will be a
valuable resource for professional
engineers, students and researchers
in computer engineering, computer
science, automatic control engineering

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and mechatronics. Includes a wide variety of projects, such as digital/analog inputs and outputs (GPIO, ADC, DAC), serial communications (UART, I2C, SPI), WIFI, Bluetooth, DC and servo motors. Based on the popular Nucleo-L476RG development board, but can be easily

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Modified to any ARM compatible processor Shows how to develop robotic applications for a mobile robot Contains complete mbed program listings for all the projects in the book

This text takes the student from the very basics of digital electronics to an

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introduction of state-of-the-art techniques used in the field. It is ideal for any engineering or science student who wishes to study the subject from its basic principles as well as serving as a guide to more advanced topics for readers already familiar with the subject. The coverage is sufficiently in-

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depth to allow the reader to progress smoothly onto higher level texts.

Ford introduced its first "clean slate design" V-8 engines in the early 1990s in Ford, Lincoln, and Mercury models. Known as the "Modular" engine family, the 4.6L engines employed new

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overhead cams, multi-valve performance, distributorless ignition, and more. This engine had new technology for its time, and it proved to be an extremely durable workhorse that logged hundreds of thousands of miles in police and taxi applications as well as light-duty trucks. And, of

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course, hotter versions, and even supercharged versions, found their way into performance applications such as Mustang GTs and Cobras. By 2011, Ford wanted something hotter and more current, especially for its flagship Mustang GT and GT350 models, which were suddenly

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competing with new 6.2L LS3 engines in Camaros and 6.4L Hemi engines in Challengers. Enter Ford's new 5.0L "Coyote" engine with Twin Independent Variable Cam Timing (Ti-VCT); it was an evolution of the earlier 4.6L and 5.4L Modular designs. Although the new Coyote engine had

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increased displacement, it still had far fewer cubes than the competition.

Despite less displacement, the Coyote could hold its own against bigger Chevy and Chrysler mills thanks to advanced technology such as 4V heads with better port and valvetrain geometry. The Coyote is also Ford's

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first foray into technology such as Ti-VCT and cam-torque-actuated (CTA) function, which is a fancy way of saying variable cam timing for an incredible power curve over a broader RPM range. Even with all of this new technology, there is always room for improvement, and both Ford and the

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Service Shop Manual an array of parts to squeeze even more power out of your Coyote. In Ford Coyote Engines: How to Build Max Performance, veteran Ford writer and historian, Jim Smart, explains and highlights all of the latest and greatest options to achieve more horsepower

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and torque, and of course, faster quarter-mile times. Some of the upgrades covered are engine building techniques, cold-air induction kits, supercharger and pulley kits, better exhaust headers, fuel system and ECU tuning upgrades, and more. If you are looking for even more power

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