EXPLANATION OF OBD-II DIAGNOSTIC TROUBLE CODES



Obd Ii Generic Check Engine Light Codes

G Thomas

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OBD II Repair Strategies Mandy Concepcion, 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 posses 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

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Dive into Chapter 1 where you ll explore the essential role of automotive technicians in today s industry Learn about the various specializations that can set your skillset apart and why technicians are the backbone of the automotive world Discover in Chapter 2 the critical skills and traits that elevate an ordinary technician into an extraordinary craftsman From mastering mechanical aptitude to honing razor sharp communication skills this chapter reveals what it takes to thrive Journey through the intricacies of automotive systems in Chapter 3 where engines transmissions and electrical systems are demystified Get hands on with the tools of the trade in Chapters 4 and 5 illustrating the diagnostic devices and maintenance equipment that empower your day to day work Curious about career progression Chapter 6 outlines educational pathways from technical schools to real world training while Chapter 7 navigates the robust world of certifications and qualifications Broaden your horizons with Chapter 8 exploring enriching career opportunities and specializations including cutting edge areas like hybrid and electric vehicle technologies Visualize the future in Chapter 11 examining how technological and environmental shifts are shaping the industry s landscape Packed with actionable insights this eBook guides you through writing the perfect resume acing interviews and navigating the job market in Chapter 10 Further discover the symbiosis of practical skills and tech prowess in Chapter 13 ensuring you remain versatile and indispensable Whether you rejust starting out or seeking to advance All About Automotive Technicians is your roadmap to a fulfilling long term career in automotive technology Embrace the challenge nurture your passion and contribute to a vibrant automotive community Your future in this exciting field starts here Automotive Diagnostic Systems Keith McCord, 2011 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 OBD-I & OBD-II Greg Branish, 2023-06-09 Onboard diagnostics OBD systems have been an integral part of of cover vehicle design for decades as OBD II became mandatory in 1996 for all cars manufactured in the United States Almost every aspect of the diagnostics system evolved from emissions requirements that were placed on the automotive industry Manufacturers responded with increasing complexity in the electronic controls and reporting of errors Fortunately some commonization followed in the industry which made the job of a repair technician or do it yourself enthusiast slightly easier when working on these challenging systems Passing emissions testing has become critically important to manufacturers of high performance parts and installation shops Both the US Environmental Protection Agency EPA and California Air Resources Board CARB have assessed massive fines for violations of the Clean Air Act based on information that is available from the vehicle's OBD system Many states now require vehicles to pass an OBD check to renew the registration making proper operation even more important to consumers OBD I OBD II A Complete Guide to Diagnosis Repair Emissions Compliance is an insider s guide to modern original equipment manufacturer OEM diagnostics systems As a former

diagnostics and performance calibration engineer Greg Banish guides you through critical electronic control unit ECU functions that ultimately lead to why the check engine light on the dash is lit Strategies are provided for how to begin looking for a solution when problems are detected Listing every imaginable repair is impossible but this book provides a solid foundation from which to work by explaining the electronic control unit ECU s logic in plain English Practical examples from the author s experience highlight important lessons that will save hours of frustration and confusion In addition to repair tips sound advice is given for those looking to modify their vehicles while maintaining the full functionality of the emissions and diagnostics systems Modern diagnostics systems can be a blessing or a curse depending on your level of understanding This book helps you harness the power of the diagnostics inside the ECU to improve the ability to find and make the right repair the first time This book shows that by using commonly available electronic tools the consumer has the power to access a wealth of information about his or her vehicle It also helps those who are looking to improve performance do so without compromise to the environment or enforcement agencies Whether you want to repair the vehicle yourself or simply want to possess an understanding of how these systems work while dealing with service professionals this is the guide you need

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