

# GM OBD I DIAGNOSTIC CODES

DTC	DESCRIPTION	DTC	DESCRIPTION
13	Oxygen Sensor (O2s) Circuit - open circuit	42	Ignition Control (IC) Bypass Error (3100 VIN M)
14	Engine Coolant Temperature (ECT) Sensor Circuit - high temperature	43	Knock Sensor (KS) circuit - spark control
15	Engine Coolant Temperature (ECT) Sensor Circuit - low temperature	44	Oxygen Sensor (O2s) Circuit - lean exhaust indicated
16	System Voltage High	45	Oxygen Sensor (O2s) Circuit - rich exhaust indicated
17	Camshaft Position Sensor Circuit Error	46	Power Steering Pressure Switch Circuit
19	Intermittent 7X Reference Signal	51	EPROM Error
21	Throttle Position (TP) Sensor Circuit - signal voltage high	53	Battery Voltage Error
22	Throttle Position (TP) Sensor Circuit - signal voltage low	54	Fuel Pump Circuit
23	Intake Air Temperature (IAT) Sensor Circuit - low temperature	55	Fuel Lean Monitor
24	Vehicle Speed Sensor (VSS) Circuit	58	Transaxle Fluid Temperature (TFT) Sensor - high temperature
25	Intake Air Temperature (IAT) Sensor Circuit - high temperature	59	Transaxle Fluid Temperature (TFT) Sensor - low temperature
26	Quad - Driver (QDM) Circuit	65	Fuel Injector Circuit - low current
27	Quad - Driver Module (QDM1)	66	A/C Refrigerant Pressure Sensor Circuit - low pressure
28	Quad - Driver Module (QDM2)	70	A/C Refrigerant Pressure Sensor Circuit - high pressure
31	PRNDL Error	72	Loss of Serial Data
31	Turbo Wastegate Overboost - 2.0L VIN M	72	Vehicle Speed Sensor (VSS) Circuit - signal error (3100 VIN M)
32	Exhaust Gas Recirculation (EGR) Valve	75	Digital EGR #1 Solenoid Error
33	Manifold Absolute Pressure (MAP) Sensor Circuit - signal voltage high	76	Digital EGR #2 Solenoid Error
33	Mass Air Flow Sensor Circuit - high frequency	77	Digital EGR #2 Solenoid Error
34	Manifold Absolute Pressure (MAP) Sensor Circuit - signal voltage low	79	Transaxle Fluid Overtemp
34	Mass Air Flow Sensor Circuit - low frequency	80	Transaxle Component Error
35	Idle Speed Error	82	Ignition Control 3X Signal Error
36	Ignition Control 24X Signal Circuit Error	85	EPROM Error - faulty or incorrect calibration
37	TCC Brake Switch Error	86	Analog/Digital Error
38	Brake Switch Circuit	87	EEPROM Error
39	Torque Converter Clutch Circuit	90	TCC Error
41	1X Reference Circuit	96	Trans System Voltage Low
41	Ignition Control (IC) Timing Circuit Error (3100 VIN M)	98	Invalid PCM Program
42	Knock Sensor (KS) circuit - spark timing	99	Invalid PCM Program

# Obdfault Codes Reference Guide

**Richard Walter, Eric Walter**



## **Obdfault Codes Reference Guide:**

*OBD2 Automotive Code Encyclopedia and Cross Reference Guide* Mandy Concepcion, Includes pressure voltage current volumes OBD 2 code definitions code setting criteria Cover How To Use Automotive Diagnostic Scanners Tracy Martin, 2015-08-01 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 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 **User's Guide to MOBILE5**, 1994

*Ubiquitous Convergence Technology* Frank Stajano, 2007-04-24 This book constitutes the thoroughly refereed postproceedings of the First International Conference on Ubiquitous Convergence Technology ICUCT 2006 held in Jeju Island Korea in December 2006 The 29 revised full papers presented together with one keynote paper cover multimedia applications mobile wireless and ad hoc networking smart sensors and sensor networks privacy and security as well as Web based simulation for natural systems Mechanic Auto Electrical and Electronics (Theory) Mr. Rohit Manglik, 2024-05-18 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels *The Code of Federal Regulations of the United States of America*, 2003 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government

Code of Federal Regulations, 2003 Code of Federal Regulations Miriam E. Conteh-Morgan, 2004 Special edition of the Federal register containing a codification of documents of general applicability and future effect as of July 1 with ancillaries

Data Acquisition from HD Vehicles Using J1939 CAN Bus Richard Walter, Eric Walter, 2016-07-14 Modern vehicles have electronic control units ECUs to control various subsystems such as the engine brakes steering air conditioning and infotainment These ECUs or simply controllers are networked together to share information and output directly measured and calculated data to each other This in vehicle network is a data goldmine for improved maintenance measuring vehicle performance and its subsystems fleet management warranty and legal issues reliability durability and accident reconstruction The focus of *Data Acquisition from HD Vehicles Using J1939 CAN Bus* is to guide the reader on how to acquire

and correctly interpret data from the in vehicle network of heavy duty HD vehicles The reader will learn how to convert messages to scaled engineering parameters and how to determine the available parameters on HD vehicles along with their accuracy and update rate Written by two specialists in this field Richard Rick P Walter and Eric P Walter principals at HEM Data located in the United States the book provides a unique road map for the data acquisition user The authors give a clear and concise description of the CAN protocol plus a review of all 19 parts of the SAE International J1939 standard family Pertinent standards are illuminated with tables graphs and examples Practical applications covered are calculating fuel economy duty cycle analysis and capturing intermittent faults A comparison is made of various diagnostic approaches including OBD II HD OBD and World Wide Harmonized WWH OBD Data Acquisition from HD Vehicles Using J1939 CAN Bus is a must have reference for those interested to acquire data effectively from the SAE J1939 equipped vehicles DIY Car Repairs David R Ely,2024-03-13 DIY Car Repairs A Comprehensive Guide to Vehicle Maintenance and Troubleshooting is a practical handbook designed for both novice and experienced car enthusiasts The book begins by emphasizing the importance of regular maintenance providing readers with a clear purpose empowering them to take control of their vehicle s well being and save on repair costs In Chapter 1 readers are introduced to the fundamentals of their vehicles starting with an overview of basic car components The chapter progresses to cover the essential systems of the car including the engine transmission suspension and brakes Through detailed explanations and visuals readers gain insights into identifying various parts under the hood Chapter 2 shifts focus to the necessary tools and safety precautions for DIY car repairs It outlines the basic tools required emphasizes the importance of safety gear and guides readers in creating a safe and organized workspace setting the stage for effective and secure repairs The subsequent chapters 3 to 10 delve into specific aspects of basic maintenance tire care brake systems electrical systems ignition systems engine performance cooling systems and transmission and drivetrain Each chapter is structured to provide step by step instructions tips and precautions for various repair and maintenance tasks empowering readers with the knowledge to keep their vehicles in top condition Chapter 11 introduces more advanced repair topics for those looking to deepen their automotive skills covering timing belt replacement suspension upgrades and dealing with transmission rebuilds While optional these sections offer valuable insights for readers eager to take on more complex projects Chapter 12 provides a troubleshooting guide equipping readers with the skills to identify and address common car issues and symptoms The step by step troubleshooting process assists in efficient problem solving and guidance on when to seek professional help ensures readers know their limits and when expert assistance may be necessary The book concludes with an addendum featuring a glossary for quick reference and a list of references for further exploration DIY Car Repairs stands as a comprehensive resource combining theoretical understanding with practical guidance to empower readers in maintaining and repairing their vehicles effectively *Engine Performance Tasksheet* *Manual for NATEF Proficiency* CDX Automotive,2010-02-15 *Mechanic Motor Vehicle (Theory) - II* Mr. Rohit

Manglik,2024-05-18 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Code

of Federal Regulations Office of the Federal Register (U.S.) Staff,U S Office of the Federal Register,2011-10-17 **Vehicle Battery Fires** Greg Barnett,2017-01-15 Battery Fires Why They Happen and How They Happen was written to assist those interested in this type of incident understand how automotive fires develop spread and the damage they cause using both deductive and inductive reasoning The main focus of the book resides in looking at differences in failure modes between DC and AC systems general types of battery and electrical failure modes leading to fire how to interpret electrical fire determination of the primary failed part and other skills the investigating engineer will require to perform technical failure mode analysis However some fires have consumed the evidence to the point where a determination cannot be made with any degree of certainty In this instance evidence will be quite limited and the analysis will have its limitations and should be included in the discussion as such In some cases a cause undetermined report is all the evidence will support Battery Fires Why They Happen and How They Happen is a unique title which brings together the theory and the practice of correctly evaluating the root causes of unexpected and dangerous automobile fires Advanced Automotive Engine Performance

Michael Klyde,CDX Automotive,2020-04-17 Advanced Automotive Engine Performance is designed to prepare novice technicians for the challenge of diagnosing today s highly technical electronic engine controls Using this curriculum learners will gain familiarity with the operation and variations of emissions systems and associated onboard monitors The curriculum especially focuses on applying diagnostic strategy to and performing service procedures for emissions systems faults Learners will also develop an understanding of IM testing and an ability to interpret IM test reports to aid in diagnosis This objective based curriculum will prepare learners for the challenges of servicing engine management systems in the shop today This is a complete curriculum solution for Advanced Automotive Engine Performance Online courseware is available and is rich in video and animation to support understanding of complex systems This solution is available in print plus digital or digital only offerings providing eBook and online course pairing with mobile friendly adaptability Complete tests tasksheets and instructor resources make this curriculum easy to adopt and integrate into any automotive program

*Federal Register* ,2003-06-17 **Advanced Automotive Fault Diagnosis** Tom Denton,2020-09-22 Diagnostics Test don t guess Learn all the skills you need to pass Level 3 and 4 Vehicle Diagnostics courses from IMI City Guilds and BTEC as well as ASE AUR and other higher level qualifications Along with 25 new real life case studies this fifth edition of Advanced Automotive Fault Diagnosis includes new content on diagnostic tools and equipment VCDS decade boxes scanners pass through sensor simulators break out boxes multimeter updates for HV use and more It explains the fundamentals of vehicle systems and components and it examines diagnostic principles and the latest techniques employed in effective vehicle

maintenance and repair Diagnostics or faultfinding is an essential part of an automotive technician's work and as automotive systems become increasingly complex there is a greater need for good diagnostic skills Ideal for students included throughout the text are useful definitions key facts and safety first notes This text will also assist experienced technicians to further improve their performance and keep up with recent industry developments

**Fundamentals of Medium/Heavy Duty Diesel Engines** Gus Wright, 2021-09-30 Preview a Sample Chapter Now Chapter 12 Diesel Fuel Properties and Characteristics View Now Thoroughly updated and expanded Fundamentals of Medium Heavy Diesel Engines Second Edition offers comprehensive coverage of basic concepts and fundamentals building up to advanced instruction on the latest technology coming to market for medium and heavy duty diesel engine systems Now organized by outcome based objectives to improve instructional clarity and adaptability in a more readable format all content seamlessly aligns with the latest ASE Medium Heavy Truck Program requirements for IMMR through MTST This industry leading Second Edition offers Complete coverage for the T2 ASE exam including starting and charging systems Unique coverage and emphasis on electronic control systems for the L2 Diesel Specialist ASE Exam Dedicated chapters on the latest technology and unique OEM equipment Examples of In Depth Coverage for Today's Technicians Electronic service tools Variable Geometry and Series Turbocharging On board networks multiplexing and HD OBD fundamentals and OEM specific Exhaust Aftertreatment Systems Particulate filters Selective Catalyst Reduction SCR and OEM systems Exhaust Gas recirculation EGR Basic Components Coolers Dual Coolers Inspecting a Cooler Mixers Valves Control System Mass Airflow Oxygen Sensor and Speed Density measurement of EGR flow Maintenance On Board Diagnostics and System Performance Checks Engine sensors Analyzing Switch and Sensor Signals VREF and Zero Volt return ZVR Pull Up and Pull Down Switches Resistive Type Sensors Three Wire Hall Effect Sensor Throttle Sensors Pressure Sensors Mass Airflow Sensors Position Sensors Exhaust Gas Sensors Diesel Exhaust Fluid Sensors Fault Detection Principles for Sensors Three Wire Sensor Circuit Monitoring and Pinpoint Testing of Sensors Testing High Pressure Common Rail Fuel Systems Pressure Control Components Two Controller Rail Pressure Regulation On Board Diagnostics Monitoring Measuring Injector Back Leakage Measuring Total Fuel Leakage Fuel Balance Control Bosch Gen 1 4 Delphi Denso Servo hydraulic Direct Acting Piezo G3S and G4S III Siemens Continental AG Injection Rate Shaping Injection Rate and Fault Healing Model Predictive Control MPC and Rate Shape Selection Nominal Voltage Calibration Accelerometer Pilot Control Closed Loop Injector Control Fuel Leakage Rates Pressure Wave Correction Factor Zero Fuel Mass Calibration DYNAMIC TECHNOLOGY SOLUTIONS This text fully aligns to CDX Online Access for Medium Heavy Duty Truck Online training program With an easy to use interface and seamless integration with this resource the online learning system reinforces and extends the learning topics from two dimensional paper to interactive e learning Online resources include Thousands of images and digital media assets such as animations and videos Updated tasksheets aligned to the latest ASE Education Foundation standards Mobile ready course materials Audiobook and eBook versions of this text 2023 1400 pages

*Code of Federal Regulations, Title 40, Protection of Environment, Pt. Pt. 85-86 (Sec. 86.600-1 to End), Revised as of July 1, 2011* U. s. Government Printing Office, 2011-11-16      **Fundamentals of Automotive Technology** Kirk VanGelder, 2017-02-23 Automotive technicians must learn how to safely and effectively maintain diagnose and repair every system on the automobile Fundamentals of Automotive Technology provides students with the critical knowledge and essential skills to master these tasks successfully With a focus on clarity and accuracy the Second Edition offers students and instructors a single source of unparalleled coverage for every task from MLR through MAST Fully updated and reorganized the revised format enhances student comprehension and encourages critical thinking

## **Obdfault Codes Reference Guide** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has be more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Obdfault Codes Reference Guide**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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