

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

Obd Ii Codes Chevrolet

RS Peters

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the 'RS Peters' text.

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Chevrolet Onboard Diagnostics Automotive Training Group,2009 Chevrolet Cavalier and Pontiac Sunfire. A Practical Manual for Owners Pasquale De Marco,2025-08-14 Chevrolet Cavalier and Pontiac Sunfire A Practical Manual for Owners is a comprehensive guide to these popular compact cars Covering everything from basic maintenance to advanced repairs this book is a must have for anyone who wants to keep their Cavalier or Sunfire running in top condition With step by step instructions troubleshooting tips and hundreds of photos and illustrations this book makes it easy to understand even the most complex repairs Whether you re a new owner or a seasoned mechanic you ll find something valuable in this book Some of the topics covered in this book include Basic maintenance and repairs Engine and drivetrain troubleshooting Electrical system diagnosis and repair Body and interior repairs Performance modifications Safety features Tire and wheel maintenance Troubleshooting and diagnostics Whether you re looking to save money on repairs or simply want to learn more about your car Chevrolet Cavalier and Pontiac Sunfire A Practical Manual for Owners is the perfect resource With this book in hand you ll be able to keep your Cavalier or Sunfire running smoothly for years to come If you like this book write a review

OBD-I & OBD-II Greg Branish,2023-06-09 Onboard diagnostics OBD systems have been an integral part of 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 Chevy LS1/LS6 Performance Chris Endres,2003-04-01 A complete performance guide for Chevrolet s newest generation LS1 small block Chevy engine Includes sections on bolt ons cylinder heads intake manifolds camshafts and valvetrain fuel injection block prep final assembly exhaust and forced induction **How to Use and Upgrade to GM Gen III LS-Series Powertrain Control Systems** Mike Noonan,2013 The General Motors G Body is one of the manufacturer s most popular chassis and includes cars such as Chevrolet Malibu Monte Carlo and El Camino the Buick Regal Grand National and GNX the Oldsmobile Cutlass Supreme the Pontiac Grand Prix and more This traditional and affordable front engine rear wheel drive design lends itself to common upgrades and modifications for a wide range of high performance applications from drag racing to road racing Many of the vehicles GM produced using this chassis were powered by V 8 engines and others had popular turbocharged V 6 configurations Some of the special edition vehicles were outfitted with exclusive performance upgrades which can be easily adapted to other G Body vehicles Knowing which vehicles were equipped with which options and how to best incorporate all the best possible equipment is thoroughly covered in this book A solid collection of upgrades including brakes suspension and the installation of GMs most popular modern engine the LS Series V 8 are all covered in great detail The aftermarket support for this chassis is huge and the interchangeability and affordability are a big reason for its popularity It s the last mass produced V 8 rear drive chassis that enthusiasts can afford and readily modify There is also great information for use when shopping for a G Body including what areas to be aware of or check for possible corrosion what options to look for and what should be avoided No other book on the performance aspects of a GM G Body has been published until now and this book will serve as the bible to G Body enthusiasts for years to come *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

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Automotive Wiring Dennis W. Parks, John Kimbrough,

General Motors Corporation v Department of Treasury, 466 Mich 231 (2002) ,2002 116984

GM Full-size Pick-ups John Haynes, 2005-01-23 Haynes manuals are written and photographed from hands on experience gained by a complete teardown and rebuild of the specific vehicle Hundreds of photographs depict repair procedures wiring

diagrams owner maintenance emissions systems and more **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 of cover **How to Rebuild GM LS-Series Engines** Chris Werner,2008 With the increasing popularity of GM s LS series engine family many enthusiasts are ready to rebuild The first of its kind How to Rebuild GM LS Series Engines tells you exactly how to do that The book explains variations between the various LS series engines and elaborates up on the features that make this engine family such an excellent design As with all Workbench titles this book details and highlights special components tools chemicals and other accessories needed to get the job done right the first time Appendices are packed full of valuable reference information and the book includes a Work Along Sheet to help you record vital statistics and measurements along the way *How to Swap LS & LT Engines into Chevy & GMC Trucks: 1960-1998* Jefferson Bryant,2023-12-15 In the last few years of the automotive collector market light trucks have become a hot commodity especially Chevy trucks Unlike in the past heavily modified vehicles command a premium over stock restorations Owners of these trucks which were often fairly crude and not much fun to drive are demanding modern performance and technology in each system The brakes suspension steering air conditioning and electronics can be upgraded to make your old truck drive like new Of course the drivetrain is arguably the most important part of that equation and that means swapping an LS or LT engine and a modern transmission into your classic Chevy truck To perform a successful LS or LT engine swap into an older Chevy truck proper planning the right combination of parts and the correct information is required to complete the project How to Swap LS select and install the exhaust intake and fuel pumps and upgrade the cooling system for the high performance LS and LT While the swapping process is covered in detail the author also provides a helpful LS and LT engine guide This helps you find the best option for your application and understand the different considerations for these two engines Whether you are ready to get started right now or want to use this book to determine whether you want to tackle this project this book is essential to making informed decisions along the way **How to Use Automotive Diagnostic Scanners** Tracy Martin, **Automotive Computer Systems: Shop manual** Don Knowles,Jack Erjavec,1996 **United States Code Annotated** United States,2003 **Automotive Engine Performance** Nicholas Goodnight,Kirk VanGelder,2019-02-20 Automotive Engine Performance published as part of the CDX Master Automotive Technician Series provides technicians in training with a detailed overview of modern engine technologies and diagnostic strategies Taking a strategy based diagnostic approach it helps students master the skills needed to diagnose and resolve customer concerns correctly on the first attempt Students will gain an understanding of current diagnostic tools and advanced performance systems as they prepare to service the engines of tomorrow *Advanced Automotive Electricity and*

Electronics Klyde, Kirk Vangelder, 2017-06-12 Advanced Automotive Electricity and Electronics published as part of the CDX Master Automotive Technician Series gives students with a basic understanding of automotive electrical the additional knowledge and experience they need to diagnose and fix complex electrical systems and circuits Focused on a strategy based diagnostics approach this book helps students master technical trouble shooting in order to address the problem correctly on the first attempt

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web det ab det a det b if a is invertible then det a 1 det a 1 solution problems let a $\begin{pmatrix} 8 & 1 & 6 & 3 & 5 & 7 & 4 & 9 & 2 \end{pmatrix}$ notice that a contains every integer from 1 to 9 and that the sums of each row column and diagonal of a are equal such a grid is sometimes called a magic square compute the determinant of a

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web jul 27 2023 in chapter 2 we found the elementary matrices that perform the gaussian row operations in other words for any matrix m and a matrix m equal to m after a row operation multiplying by an elementary matrix e gave m em we now examine what the elementary matrices to do determinants

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matrix a b c d a b c d we first write it as a b c d a b c d

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web so there are two quantities which can be found in a matrix minors and cofactors minors exist for each element of the matrix and are defined as the determinant of the matrix you get when you ignore the row and column of the element in question for example if my matrix is as follows 1 2 3 4 5 6 7 8 9

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