

# 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
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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

# Engine Fault Codes Ford Focus

**Keith McCord**



## **Engine Fault Codes Ford Focus:**

The Ford Focus Maintenance and Repair Guide Pasquale De Marco,2025-08-12 The Ford Focus Maintenance and Repair Guide is the definitive guide to maintaining and repairing your Ford Focus Whether you re a seasoned mechanic or a first time car owner this book has everything you need to keep your Focus running smoothly With clear concise instructions and detailed illustrations The Ford Focus Maintenance and Repair Guide covers all aspects of Focus maintenance from basic tasks like oil changes and tire rotations to more complex procedures like brake repairs and transmission overhauls You ll also find troubleshooting tips and diagnostic advice to help you identify and fix any problems that may arise In addition to the comprehensive maintenance and repair information The Ford Focus Maintenance and Repair Guide also includes A detailed overview of the Focus model range including all generations and trim levels Troubleshooting tips and diagnostic advice for common problems A glossary of automotive terms and acronyms A resource guide with contact information for Ford dealerships and parts suppliers Whether you re looking to save money on maintenance costs or simply want to learn more about your car The Ford Focus Maintenance and Repair Guide is the perfect resource With The Ford Focus Maintenance and Repair Guide you ll have the knowledge and confidence to keep your Ford Focus in top condition for years to come Order your copy today and start enjoying a hassle free driving experience If you like this book write a review 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 **Haynes Ford Focus 2000 and 2001** Jay Storer,John Harold Haynes,2002 Inside this manual the reader will learn to do routine maintenance tune up procedures engine repair along with aspects of your car such as cooling and heating air conditioning fuel and exhaust emissions control ignition brakes suspension and steering electrical systems wiring diagrams

**Fundamentals of Automotive Technology** Kirk VanGelder,Kirk T. VanGelder,2022-02-23 Fundamentals of Automotive Technology Principles and Practice Third Edition is a comprehensive resource that provides students with the necessary knowledge and skills to successfully master these tasks 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 **Lemon-Aid New Cars and Trucks 2012**

Phil Edmonston,2011-12-03 Offers advice for prospective buyers of cars and trucks reveals information on secret warranties and confidential service bulletins and tells how to complain and get results *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

Motor Industry Magazine ,2006 Automotive Automatic Transmission and Transaxles Keith Santini,Kirk

Vangelder,2017-05-18 Automotive Automatic Transmission and Transaxles published as part of the CDX Master Automotive Technician Series provides students with an in depth introduction to diagnosing repairing and rebuilding transmissions of all types Utilizing a strategy based diagnostics approach this book helps students master technical trouble shooting in order to address the problem correctly on the first attempt Outcome focused with clear objectives assessments and seamless coordination with task sheets Introduces transmission design and operation electronic controls torque converters gears and shafts reaction and friction units and manufacturer types Equips students with tried and true techniques for use with complex shop problems Combines the latest technology for computer controlled transmissions with traditional skills for hydraulic transmissions Filled with pictures and illustrations that aid comprehension as well as real world examples that put theory into practice Offers instructors an intuitive methodical course structure and helpful support tools With complete coverage of this specialized topic this book prepares students for MAST certification and the full range of transmission problems they will encounter afterward as a technician About CDX Master Automotive Technician Series Organized around the principles of outcome based education CDX offers a uniquely flexible and in depth program which aligns learning and assessments into one cohesive and adaptable learning system Used in conjunction with CDX MAST Online CDX prepares

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