

FORD OBD1 Codes List

2-digit Ford OBD1 Codes List

| # | KEGO | CM | KOER | Code Definition |
|----|------|----|------|---|
| NC | X | X | X | No code |
| 10 | | | X | Cylinder #1 Failed Cylinder Balance Test |
| 11 | X | X | X | System pass! |
| 12 | | | X | Cannot control RPM during ER Self-Test high RPM check. |
| 13 | | | X | Cannot control RPM during ER Self-Test low RPM check. |
| 14 | | X | | Two or more successive erratic Profile Ignition Pickup (PIP) pulses occurred, resulting in a possible engine miss or stall. |
| 15 | X | | | EEC permanent Read Only Memory (ROM) test failed. |
| 15 | | X | | EEC battery powered Keep Alive Memory (KAM) test failed. |
| 16 | X | | | IDM signal not received. |
| 16 | | | X | RPM too low to perform HEGO test. |
| 17 | | | X | RPM below Self-Test limit with Idle Air Control off |
| 18 | | | X | SPOUT circuit open or spark angle word failure. |
| 18 | | X | | IDM circuit failure or SPOUT circuit grounded |
| 19 | X | | | Failure in EEC internal voltage. |
| 19 | | X | | Cylinder Identification CID circuit failure. |
| 19 | | | X | RPM erratic, dropped too low during test. |
| 20 | | | X | Cylinder #2 Failed Cylinder Balance Test. |
| 21 | X | X | X | ECT out of self test range 0.3 to 3.7 volts. |
| 22 | X | X | X | MAP/BP sensor out of self test range |
| 23 | X | | X | Closed throttle TPS voltage higher or lower than expected |
| 24 | X | X | X | ACT sensor out of self test range 0.3 to 3.7 volts. |
| 25 | | | X | Knock not sensed during dynamic test |
| 26 | X | | | MAF sensor was greater than 0.7 volts with engine off |
| 26 | | | X | MAF sensor was not between 0.2 and 1.5 volts with engine running. |
| 26 | X | | X | TOT sensor out of self test range. |
| 27 | | | | ? |
| 28 | X | | X | VAT sensor out of self test range. |
| 28 | | X | | Loss of IDM, right side. |
| 29 | | X | | Insufficient input from vehicle speed sensor |

Ford Pid Codes

Mandy Concepcion



Ford Pid Codes:

Practical Arduino Jonathan Oxer, Hugh Blemings, 2011-01-26 Create your own Arduino based designs gain in depth knowledge of the architecture of Arduino and learn the user friendly Arduino language all in the context of practical projects that you can build yourself at home Get hands on experience using a variety of projects and recipes for everything from home automation to test equipment Arduino has taken off as an incredibly popular building block among ubicomp ubiquitous computing enthusiasts robotics hobbyists and DIY home automation developers Authors Jonathan Oxer and Hugh Blemings provide detailed instructions for building a wide range of both practical and fun Arduino related projects covering areas such as hobbies automotive communications home automation and instrumentation Take Arduino beyond blink to a wide variety of projects from simple to challenging Hands on recipes for everything from home automation to interfacing with your car engine management system Explanations of techniques and references to handy resources for ubiquitous computing projects Supplementary material includes a circuit schematic reference introductions to a range of electronic engineering principles and general hints tips These combine with the projects themselves to make Practical Arduino Cool Projects for Open Source Hardware an invaluable reference for Arduino users of all levels You ll learn a wide variety of techniques that can be applied to your own projects

Ford's Christian Repository, 1881

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 possess 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

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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 caught in a particular mind set Taking all the facts into account [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

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 **The Development of an Advanced Telematics Based Automatic Vehicle Monitoring System (AVeMS)** Joseph C. Silva,2010 *How to Tune and Modify Engine Management Systems* Jeff Hartman,2004-02-13 Drawing on a wealth of knowledge and experience and a background of more than 1 000 magazine articles on the subject engine control

expert Jeff Hartman explains everything from the basics of engine management to the building of complicated project cars Hartman has substantially updated the material from his 1993 MBI book Fuel Injection 0 879387 43 2 to address the incredible developments in automotive fuel injection technology from the past decade including the multitude of import cars that are the subject of so much hot rodding today Hartman s text is extremely detailed and logically arranged to help readers better understand this complex topic

Troubleshooting and Repair of Diesel Engines Paul Dempsey,2007-10-15 Harness the Latest Tools and Techniques for Troubleshooting and Repairing Virtually Any Diesel Engine Problem The Fourth Edition of Troubleshooting and Repairing Diesel Engines presents the latest advances in diesel technology Comprehensive and practical this revised classic equips you with all of the state of the art tools and techniques needed to keep diesel engines running in top condition Written by master mechanic and bestselling author Paul Dempsey this hands on resource covers new engine technology electronic engine management biodiesel fuels and emissions controls The book also contains cutting edge information on diagnostics fuel systems mechanical and electronic governors cylinder heads and valves engine mechanics turbochargers electrical basics starters and generators cooling systems exhaust aftertreatment and more Packed with over 350 drawings schematics and photographs the updated Troubleshooting and Repairing Diesel Engines features New material on biodiesel and straight vegetable oil fuels Intensive reviews of troubleshooting procedures New engine repair procedures and tools State of the art turbocharger techniques A comprehensive new chapter on troubleshooting and repairing electronic engine management systems A new chapter on the worldwide drive for greener more environmentally friendly diesels Get Everything You Need to Solve Diesel Problems Quickly and Easily Rudolf Diesel Diesel Basics Engine Installation Fuel Systems Electronic Engine Management Systems Cylinder Heads and Valves Engine Mechanics Turbochargers Electrical Fundamentals Starting and Generating Systems Cooling Systems Greener Diesels

Troubleshooting and Repairing Diesel Engines, 5th Edition Paul Dempsey,2018-05-01 This fully updated money saving guide shows step by step how to repair and maintain diesel enginesThoroughly revised to cover the latest advances this resource equips you with the state of the art tools and techniques needed to keep diesel engines running smoothly and in top condition The book offers comprehensive and practical coverage of diesel technology and clearly explains new diesel hydrogen and diesel methane engines Troubleshooting and Repairing Diesel Engines Fifth Edition covers new engine technology electronic engine management biodiesel fuels and emissions controls This new edition contains cutting edge information on recent developments including turbocharging and changes in the composition of conventional fuel You will find out how to successfully carry out repairs and get professional results while saving money Covers a broad range of diesel engine makes and models Features helpful facts specifications and flow charts Written by a master mechanic and bestselling author

Mitchell Electronic Fuel Injection ,1995 **Deering's California Codes** California,1954 *Poor's Cumulative Service* ,1930 **Shadow Flights** Curtis Peebles,2000 Historian Peebles draws on previously top secret

documents from both countries and the recollections of participants on both sides to recount the US spy plane program against the Soviet Union after World War II The lid was blown off and the program ended with the downing of Francis Gary Powers in his U 2 spyplane Annotation copyrighted by Book News Inc Portland OR *Modern Diesel Technology* Robert N. Brady,1996 Through a carefully maintained building block approach this text offers an easy to understand guide to automotive truck and heavy equipment diesel engine technology in a single comprehensive volume Text focus is on state of the art technology as well as on the fundamental principles underlying today s technological advances in service and repair procedures Industry accepted practices are identified and readers are encouraged to formulate a sound understanding of both the why and the how of modern diesel engines and equipment Thorough up to date treatment of diesel technology encompasses major advancements in the field especially recent developments in the use of electronics in heavy duty trucks off highway equipment and marine applications The text s primary focus is on state of the art electronic fuel injection systems such as those being used by such manufacturers as Caterpillar Cummins Detroit Diesel Volvo and Mack A systematic structured organization helps readers learn step by step beginning with engine systems and working logically through intake exhaust cooling lubrication and fuel injection systems highlighting major changes in today s modern engines **National Five Digit Zip Code and Post Office Directory** ,1993 Public Resources Code, Annotated, of the State of California California,1963 *Public Resources Code Annotated of the State of California Adopted April 26, 1939, with Amendments ...* California,1963 Early English Text Society ,1922 **Fore'n'aft** ,1906 **Current Programs** ,1975

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