

OBD-II DIAGNOSTIC TROUBLE CODES EXPLAINED

X X X

X X

Fault Description (look up in OBD-II lists)

1 - Fuel & Air Measurements / Metering
2 - Fuel, Air Measurements & Injection Circuit
3 - Ignition System & Misfire Detection
4 - Auxiliary Emission Controls
5 - Speed & Idle Control System
6 - Computer Output Circuit
7, 8 & 9 - Transmission / Gearbox

0, 2, 3 - Generic OBD-II Codes

1 - Manufacturer-specific Codes

P - Powertrain (Engine & Transmission / Gearbox)

B - Body

C - Chassis

U - User Wiring Bus Network

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Advanced Automotive Fault Diagnosis Tom Denton, 2016-07-07 Learn all the skills you need to pass Level 3 and 4 Vehicle Diagnostic courses from IMI City and Guilds and BTEC as well as higher levels ASE AUR and other qualifications Advanced Automotive Fault Diagnosis explains the fundamentals of vehicle systems and components and examines diagnostic principles as well as the latest techniques employed in effective vehicle maintenance and repair Diagnostics or fault finding is an essential part of an automotive technician's work and as automotive systems become increasingly complex there is a greater need for good diagnostics skills For students new to the subject this book will help to develop these skills but it will also assist experienced technicians to further improve their performance and keep up with recent industry developments Checked and endorsed by the Institute of to him to ensure that it is ideal for both independent and tutor based study Diagnostics case studies to help you put the principles covered into real life context Useful margin features throughout including definitions key facts and safety first considerations *Volkswagen Jetta, Golf, GTI, Cabrio Service Manual, 1993-1999* Bentley Publishers, Robert Bentley, inc, 1999 Bentley Publishers is the exclusive factory authorized publisher of Volkswagen Service Manuals in the United States and Canada In every manual we provide full factory repair procedures specifications tolerances electrical wiring diagrams and lubrication and maintenance information Bentley manuals are the only complete authoritative source of Volkswagen maintenance and repair information Even if you never intend to service your car yourself you'll find that owning a Bentley Manual will help you to discuss repairs more intelligently with your service technician [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

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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

Water-Cooled VW Performance Handbook Greg Raven, Chad Erickson, 2011-05-15 Turn your VW into a high performance machine Chad Erickson explains everything from low buck bolt ons to CNC machined mods Learn how to choose install tune and maintain performance equipment for Golfs GTIs Jettas Passats and more This book will help improve your VW s engine transmission and clutch ignition carburetion fuel injection suspension and handling brakes body and chassis In its 3rd edition Water Cooled VW Performance Handbook is now updated to include new engines body styles and modifications for the 1986 2008 model years *Code of Federal Regulations* ,2002 Special edition of the Federal Register containing a codification of documents of general applicability and future effect as of July 1 with ancillaries **VW GTI, Golf, Jetta, MK III & IV** Kevin Clemens, Volkswagen s GTI Golf and Jetta are long time favorites among sport compact performance enthusiasts With engines ranging from the 2 0 liter naturally aspirated four cylinder to the 1 8 liter turbo 4 to the VR6 the Mk III and Mk IV generations 1993 2004 offer tuners a wealth of opportunities This book turns these opportunities into realities from deciding which vehicle to buy to keeping it running in tip top condition to enhancing the performance and appearance of your VW Focusing on the engine wheels and tires suspension body kits interiors and more each project includes straightforward instruction along with details about the necessary parts cost time and skill If you want to get the biggest bang for your VW buck this book is your road map **The Mobility Diaries** Sven Beiker, 2022-09-21 With well over 25 years of experience Sven Beiker is widely regarded as the mobility expert in Silicon Valley specializing in future trends for the automotive and mobility industries including autonomous driving connectivity electrification and shared mobility In *The Mobility Diaries Connecting the Milestones of Innovation Leading to ACES* he opens up his personal diary regarding his take on 50 years of mobility innovation and history interwoven with his experiences from 1978 to 2018 From the Foreword by Reilly P Brennan Understanding how transportation itself evolved requires a unique prism The core components of vehicles today have stories and engineering journeys worth their own telling and that is what is so exciting about the way we can learn about them in this text Dr Beiker s curriculum vitae from BMW to Stanford University to McKinsey are a compendium of experiences that created this unique historical and biographical book Sven and I are kindred spirits in the mobility world His view on the evolution of mobility and technology illustrates why Detroit and Silicon Valley need one another Carla Bailo Former President and CEO Center for Automotive Research **Popular Mechanics** ,2004-11 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle **Automotive Technician Training: Theory** Tom Denton, 2014-04-16 A blended learning approach to automotive engineering at levels one to three Produced alongside the ATT online learning resources this textbook covers all the theory and technology sections that students need to learn in order to pass levels 1 2 and 3 automotive courses It is recommended by the Institute of the Motor Industry and is also ideal for

exams run by other awarding bodies Unlike the current textbooks on the market though this title takes a blended learning approach using interactive features that make learning more enjoyable as well as more effective When linked with the ATT online resources it provides a comprehensive package that includes activities video footage assessments and further reading Information and activities are set out in sequence so as to meet teacher and learner needs as well as qualification requirements Tom Denton is the leading UK automotive author with a teaching career spanning lecturer to head of automotive engineering in a large college His nine automotive textbooks published since 1995 are bestsellers and led to his authoring of the Automotive Technician Training multimedia system that is in common use in the UK USA and several other countries

Car-Compatible Apps: Enhancing Your Drive with Smart Technology Navneet Singh, Table of Contents Introduction to Car Compatible Apps Infotainment Music Podcasts Video Navigation Mapping Solutions Voice Assistants and Virtual Companions Vehicle Diagnostics Maintenance Fuel Efficiency EV Charging Apps Parking Traffic Management Tools Safety Emergency Response Apps Productivity on the Road CarPlay and Android Auto Explained Smart Home Integration with Vehicles Ride Sharing Travel Management Dash Cams Security Integration Customization In Car Experiences Future of Car Compatible Apps Conclusion

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Automobile Electrical and Electronic Systems Tom Denton, 2017-09-12 This textbook will help you learn all the skills you need to pass all Vehicle Electrical and Electronic Systems courses and qualifications As electrical and electronic systems become increasingly more complex and fundamental to the workings of modern vehicles understanding these systems is essential for automotive technicians For students new to the subject this book will help to develop this knowledge but will also assist experienced technicians in keeping up with recent technological advances This new edition includes information on developments in pass through technology multiplexing and engine control systems In full colour and covering the latest course specifications this is the guide that no student enrolled on an automotive maintenance and repair course should be without Designed to make learning easier this book contains Photographs flow charts quick reference tables overview descriptions and step by step instructions Case studies to help you put the principles covered into a real life context Useful margin features throughout including definitions key facts and safety first

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