



BMW Fault Codes (DTCs)

Below is a comprehensive listing of BMW DTCs and the corresponding SAE P-codes.

Table a. Diagnostic trouble codes (DTCs)

BMW code	P-code	Fault type and function	Signal type and range	Explanation
1		Ignition coil cyl.2	Input analog timing (100 mV)	DME initiates secondary ignition for each cylinder then looks for feedback through shunt resistor in harness to determine if ignition actually occurred.
2		Ignition coil cyl.4	Input analog timing (100 mV)	DME initiates secondary ignition for each cylinder then looks for feedback through shunt resistor in harness to determine if ignition actually occurred.
3		Ignition coil cyl.6	Input analog timing (100 mV)	DME initiates secondary ignition for each cylinder then looks for feedback through shunt resistor in harness to determine if ignition actually occurred.
5	P0202	Injector circuit cyl. 2	Output digital pulse width (active low)	DME final stage will set flag whenever a short to ground, a short to battery voltage or a disconnection between output transistor and component exists.
6	P0201	Injector circuit cyl. 1	Output digital pulse width (active low)	DME final stage will set flag whenever a short to ground, a short to battery voltage or a disconnection between output transistor and component exists.
8	P0101	Mass air flow circuit range/perf.	Input analog (0-5V)	Failed signal range check against predefined diagnostic limits.
10		Engine coolant temp. circuit range/perf.	Input analog (0-5V)	Signal range is checked against predefined diagnostic limits within specific engine operations.
11		Coolant temp. coolant outlet	Input analog (0-5V)	Signal range is checked against predefined diagnostic limits within specific engine operations.
14	P0111	Intake air temp. range/performance	Input analog (0-5V)	Signal range is checked against predefined diagnostic limits within specific engine operations.
18	P1397	Exhaust cam	Input analog	Internal check of phase shift from

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101 Performance Projects for Your BMW 3 Series 1982-2000 Wayne R. Dempsey, 2006-09-15 Since its introduction in 1975 the BMW 3 series has earned a reputation as one of the world's greatest sports sedans. Unfortunately, it has also proven one of the more expensive to service and maintain. This book is dedicated to the legion of BMW 3 series owners who adore their cars and enjoy restoring, modifying, and maintaining them to perfection. Its format allows more of these enthusiasts to get out into the garage and work on their BMWs and in the process to save a fortune. Created with the weekend mechanic in mind, this extensively illustrated manual offers 101 projects that will help you modify, maintain, and enhance your BMW 3 series sports sedan. Focusing on the 1984, 1999, E30, and E36 models, *101 Performance Projects for Your BMW 3 Series* presents all the necessary information, covers all the pitfalls, and assesses all the costs associated with performing an expansive array of weekend projects. **Bentley BMW 5-Series 1989-95 Service Manual** Bentley Publishers, 1998-07-03 If you're looking for better understanding of your BMW, look no further. This manual provides the highest level of clarity and completeness for all service and repair procedures. Covers 525i, 530i, 535i, 540i, including touring. [BMW M3](#) James Taylor, 2014-07-31 Few cars in recent years have inspired such devotion among enthusiasts as the BMW M3. Now entering its fifth generation, BMW's compact performance car is recognized worldwide as the benchmark of its type. *BMW M3 The Complete Story* looks in detail at the first four generations of the M3, which arrived in the mid 1980s as an E30 homologation special intended to keep BMW ahead of rivals Mercedes-Benz on the racetracks. But the M3 soon became very much more than that. Before long, buyers latched onto its exclusivity and turned it into a status symbol, and BMW was only too happy to exploit that. For all fans of the BMW M3, this book provides the essential background. It is packed with facts and details that make the M3 legend come alive. With over 250 photographs, the book covers the original E30 M3 of 1986, from a homologation special to a status symbol, design and development of the E36 M3, including a new 6-cylinder engine and more body choices, the E46 M3 of 2000 with the developed 6-cylinder S54 engine and gearshift advances, racing success for the E90 series M3s introduced in 2007 with V8 engines, driving, buying, and special editions of all the models. **Bentley BMW 3 Series Service Manual 1992-1998** Bentley Publishers, 1999 If you're looking for better understanding of your E36 BMW, look no further. See and learn how to perform routine maintenance procedures with the highest level of clarity and comprehensiveness. This in-depth manual provides maintenance procedures for everything from brake fluid changes to resetting the service indicator. Covers M3, 318i, 323i, 325i, 328i, sedan, coupe, and convertible models 1992-98. [Working Mother](#), 1987-09 The magazine that helps career moms balance their personal and professional lives. **Motor Industry Magazine**, 2006 **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 **Motorcycle Fuel Injection Handbook** Adam Wade, 2004

BMW Enthusiast's Companion BMW Car Club of America, 1995 BMW owners and BMW CCA members provide specific information for your BMW Valuable insights and technical information ranging from basic service tips to advanced driving theory Inside secrets on maintaining and preserving your BMW from properly washing and waxing your car to how to reset the service indicator lights Driving techniques ranging from basic car control to choosing apexes on the track Discover whether your car oversteers or understeers and how weight transfer affects traction and vehicle performance Learn the difference between torque and horsepower and how to select the right tires for your BMW Find out which performance modifications work which ones don't and why **Car and Driver** , 2007 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 **BMW 3 Series Enthusiast's Companion** Jeremy Walton, 2001 Walton chronologically explores the series with details on every 3 Series platform including the E21 E30 E36 and E46 The engineering of each platform is described and evaluated The book also features coverage of the M3 both as it performs on the street and on the race track Guidance on iden **BMW Z3 Roadster** , 1998 This Bentley Manual is the only comprehensive single source of service information specifications available for BMW Z3 Roadster from 1996 to 1998 The aim throughout this manual has been simplicity clarity completeness with practical explanations step by step procedures accurate specifications Whether you're a professional or a do it yourself BMW owner this manual will help you understand care for repair your Z3 Roadster Autocar , 2006 **Cycle World Magazine** , 2001-01 **Semiconductor Design and**

Implementation Issues in Integrated Vehicle Electronics John H. Hall, 2005 This major research study provides a fresh critical look at the way automobile electronics are and should be built Written by Silicon Valley pioneer John Hall this book is based on his nearly 40 years of experience in developing and producing semiconductors for the automobile industry and other customers Highly readable and comprehensible for even beginning students of electronics and semiconductor design this volume provides an in depth explanation of the factors to be considered when building vehicle systems Starting with a concise history of vehicle electronics Hall walks the reader through the environmental conditions faced by these systems and the variety of failure mechanisms that can occur Basic and advanced semiconductor issues raised by vehicle implementation are then discussed in detail A wide range of issues confronting designers from over marketing of risky features to time and cost constraints are explained Complex electronic modules from many different manufacturers are examined and discussed as real world case studies of good and bad design techniques Hall concludes by providing design recommendations that will allow vehicle electronics system developers to build much tougher devices at little or no incremental production cost This book is the first major work to focus on key issues emerging as major causes of safety and performance problems Vehicle makers increasingly seek market advantages by providing ever more capable electronics in their products While these features add much value to vehicles they fail in ways that are beyond the experience and comprehension of most technicians and accident investigators By combining decades of design experience and innovation with extensive research Hall has produced unique insights and explanations so engineers can prevent most or perhaps all of these problems John Hall is one of Silicon Valley s most prolific independent pioneers and inventors He founded Union Carbide s semi conductor operation in 1962 He is a founder of Interstil and Micro Power Systems He is the inventor of the first electronic watch first LCD digital watch first CMOS liquid crystal display hand held calculator color autofocus cameras among many successful commercial products He has worked for many American and foreign automakers on specific projects such as integrated two way radios and seat belt interlocks He is working with DoD on hardening electronics systems against non nuclear events Bulletin Welding Research Council (U.S.), 1990 Contains final reports from projects sponsored by the Welding Research Council important papers presented before engineering societies and other reports of current interest *BMW 3-series* Robert Bentley, inc, Bentley Publishers, 1991 Engine coverage 1 8 liter 4 cylinder B18 2 7 liter 6 cylinder B27 2 5 liter 6 cylinder B25 Transmission coverage Getrag 240 4 cylinder cars Getrag 260 6 cylinder cars Autocar & Motor , 1994 Drawing for Designers Alan Pipes, 2007-08-09 There is a dearth of books covering drawing and product design Drawing for Designers fills this gap offering a comprehensive guide to drawing for product industrial designers and students As well as industrial product design the book encompasses automotive design and the design of other 3D artefacts such as jewelry and furniture Covering both manual and computer drawing methods the book follows the design process from initial concept sketches through presentation drawings and visualizations general arrangement and detail drafting to fully dimensioned production

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