



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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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 [European Car](#),2005 **Fault Code Manual** Haynes Publishing,2013-10 This DIY manual covers everything you need to know about automotive diagnostic fault codes [Automotive Diagnostic Fault Codes Techbook](#) Charles White,1998 **Fault Codes** Mastertech Staff,1997-09-01 [OBDII Diagnostic Fault Codes](#) Peter A. David,2003 More than 4 000 OBDII fault codes are compiled and qualitatively described in this compendium of generic and manufacturer specific proprietary fault codes for common vehicles The diagnostic connectors protocols and their classifications breakdown of fault codes and vocabulary used to describe components are detailed in the discussion of the anatomy of the OBDII scan tool This comprehensive reference to fault codes aids in diagnostic assessment by making clear the nature of an automotive problem so that beginner and advanced technicians can make effective repairs **2007 Domestic Diagnostic Trouble Code Manual (1994-2007)** Autodata,2006 Model year coverage for the Domestic DTC manual is 1994 2007 The manual features domestic diagnostic trouble codes and list the probable cause of each code The manual provides MIL Codes OBD Codes and Fault locations Code retrieval techniques are described using concise text and clear illustrations in separate sections for each model Instructions for retrieval and erasure of trouble codes are provided as well as data link connector locations All data is based on OEM information The information is available on CD CDs contain both English and Spanish languages [Diagnostic Trouble Code Definitions](#) Vehicle E E System Diagnostic Standards Committee,2007 This document supersedes SAE J2012 APR2002 and is technically equivalent to ISO 15031 6 2005 with the exceptions described in Section 1 2 This document is intended to define the standardized Diagnostic Trouble Codes DTC that On Board Diagnostic OBD systems in vehicles are required to report when malfunctions are detected This document includes a Diagnostic Trouble Code format b A standardized set of Diagnostic Trouble Codes and descriptions c A standardized set of Diagnostic Trouble Codes subtypes known as Failure Types The prior version of SAE J2012 was technically equivalent to a draft version of ISO 15031 6 April 30 2002 The ISO document

was subsequently edited and published as an International Standard ISO15031 6 2005 including minor editorial changes This version of SAE J2012 includes all of the editorial changes that were included in the published version of the ISO document This version is updated to include the latest standardized fault codes and failure type byte subfaults provide a new fault code appendix format and remove certain figures that belong in the SAE J1930 standard SAE is offering the current Diagnostic Trouble Code DTC and Failure Type Byte FTB appendices in a new Digital DTC and FTB appendices web tool *Diagnostic Fault Codes Manual* Ал ь фамер Паблинг, ЗАО, **Autodata Diagnostic Trouble Codes** Autodata Publications, Inc, 2004 Diagnostic Trouble Codes Autodata Publications, Inc, 2001-01-01 *The RELLIM Code Book*, 2005 **Diagnostic Trouble Codes** Autodata Limited, 2005 *2005 Diagnostic Trouble Codes - Domestic Vehicles 1992-2004* Autodata, 2005-03 Model year coverage for the Domestic DTC manual is 1992 2004 The manual features domestic diagnostic trouble codes and lists the probable cause of each code The manual provides MIL Codes OBD Codes and Fault locations Code retrieval techniques are described using concise text and clear illustrations in separate sections for each model Instructions for retrieval and erasure of trouble codes are provided as well as data link connector locations All data is based on OEM information Vehicle Electronic Systems and Fault Diagnosis J. Jones, J. Burdess, J.N. Fawcett, 2013-10-18 This book gives a sufficient grounding in mechanics for engineers to tackle a significant range of problems encountered in the design and specification of simple structures and machines It also provides an excellent background for students wishing to progress to more advanced studies in three dimensional mechanics **OBD-II & Electronic Engine Management Systems** Bob Henderson, John Haynes, 2006-11-01 This manual takes the mystery out of Second Generation On Board Diagnostic Systems allowing you to understand your vehicles OBD II system plus what to do when the Check Engine light comes on from reading the code to diagnosing and fixing the problem Includes a comprehensive list of computer codes Computer controlled car repair made easy For all car and light truck models manufactured since 1996 Understand your vehicle's On Board Diagnostic system How to deal with that Check Engine light from reading the code to diagnosing and fixing the problem Comprehensive computer codes list Diagnostic tools Powertrain management fundamentals OBD II monitors explained Generic trouble codes that cover all models Manufacturer specific trouble codes for GM Ford Chrysler Toyota Lexus and Honda Acura vehicles Let your car's computer help you find the problem Component replacement procedures Glossary and acronym list Fully illustrated with over 250 photographs and drawings *OBD-2 Automotive Code Encyclopedia and Cross-Reference Guide* Mandy Concepcion, 2012-05-13 Includes pressure voltage current volumes OBD 2 code definitions code setting criteria Cover **Diagnostic Code Reader for All Vehicles LOG** Artbc Lms, 2020-01-26 diagnostic code reader for all vehicles log **BMW 4 Series (F32, F33, F36) Service Manual** Robert Bentley, 2017-01-11 The BMW 4 Series Service Manual 2014 2016 contains in depth maintenance service and repair information for the BMW 4 Series from 2014 to 2016 The aim throughout has been simplicity and clarity with practical explanations step by step procedures and accurate specifications

Whether you're a professional or a do it yourself BMW owner this manual helps you understand care for and repair your 4 Series. The do it yourself BMW owner will find this manual indispensable as a source of detailed maintenance and repair information. Even if you have no intention of working on your vehicle you will find that reading and owning this manual makes it possible to discuss repairs more intelligently with a professional technician. Features: Maintenance procedures from changing the cabin microfilter to replacing and registering a new battery. This manual tells you what to do and how and when to do it. Front to rear fluid and lubricant service including xDrive transfer case fluid and ATF. Cylinder head cover gasket and crankshaft seal replacement. Cooling system thermostat and radiator service. Gasoline fuel and ignition system diagrams and explanations for turbo valvetronic direct injection TVDI engines. Service and repair information on BMW EfficientDynamics technology such as Valvetronic xDrive TwinPower turbo and DSC dynamic stability control. Twin scroll gasoline turbocharger replacement for 4 and 6 cylinder engines. Step by step variable camshaft timing VANOS service. Suspension repairs including wheel bearing replacement. Brakes steering and ABS troubleshooting and repair. Heating and air conditioning repair including A/C component replacement. Body and lid repairs and adjustments including Gran Coupe tailgate and rear doors. Retractable hardtop service including electrical mechanical and hydraulic component operation locations and replacement. Electrical system service with an easy to use illustrated component locator section. Comprehensive wiring schematics including fuses and grounds. BMW OBD II diagnostic trouble codes SAE defined OBD II P codes as well as basic scan tool operation. BMW factory tolerances wear limits adjustments and tightening torques. Engines N20 engine 428i including xDrive N26 SULEV engine 428i including xDrive N55 engine 435i including xDrive. Manual transmissions GS6 17BG 4 cylinder models GS6 45BZ 6 cylinder models RWD GS6X 45BZ 6 cylinder models with xDrive. Automatic transmissions ZF 8HP45Z.

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