



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

Bmw E46 Error Codes

**Vehicle E E System Diagnostic
Standards Committee**



Bmw E46 Error Codes:

The Friendly Guide to the BMW E46 Hank Pop Weaver, 2025-12-30 You bought the Ultimate Driving Machine Don't let it become the Ultimate Financial Mistake The BMW E46 3 Series is a legend It has perfect 50/50 weight distribution hydraulic steering that talks to your hands and a timeless design It is arguably the best car BMW ever built It is also a 20 year old German car held together by plastic clips and prayers If you go to the forums you'll hear horror stories about subframes cracking engines overheating in seconds and repair bills that cost more than the car itself The purists will tell you that unless you have thousands of dollars for special tools and factory parts you shouldn't own one They are wrong Meet Hank Pop Weaver He's not a BMW service writer who speaks in part numbers He's a retired mechanic who believes that a car is just a machine whether it was built in Munich or Detroit He knows that underneath the fancy plastic covers your E46 is just nuts bolts and gaskets Pop wrote this guide to prove that you don't need a specialized shop to keep your Bimmer running You just need confidence a basic tool set and the truth about what actually matters Inside you'll learn The Cooling System Overhaul BMW radiators are famous for exploding Pop shows you exactly how to replace the big four parts in one afternoon so you never see a tow truck The Diesel Rattle Why your smooth inline six sounds like a tractor VANOS and the simple rebuild that restores your power The Subframe Truth The scariest myth about the E46 debunked How to check your chassis in five minutes and when to actually panic The Window Regulator Crunch Why BMW windows fall into the doors and how to fix them permanently for less than the cost of a lunch Diagnostics on a Dime How to read BMW specific error codes using a 20 cable instead of paying a shop 150 just to plug in a computer Most manuals are written for professionals This book is written for you the enthusiast who wants to drive their car not just look at it Stop worrying about the next breakdown and start enjoying the drive

[BimmerLink for Beginners](#) Alex Renn, 2026-01-15 This book is intended for educational and informational purposes only It does not provide professional mechanical advice and does not replace qualified automotive diagnosis or repair BMW vehicles vary by model year software version and condition Misuse or misinterpretation of diagnostic information may lead to incorrect conclusions The author is not affiliated with BMW or any diagnostic software provider All product and brand names are used solely for descriptive purposes Always prioritize safety and consult a qualified automotive professional when in doubt A BMW warning light appears A diagnostic code shows up unexpectedly Your car still drives fine but now you are unsure what to do Before you panic clear fault codes or book an unnecessary BMW dealer visit there is something you should understand first Modern BMW vehicles generate extensive diagnostic data Much more than the dashboard ever shows Apps like BimmerLink allow BMW owners to access that information but without proper guidance diagnostics can quickly become confusing intimidating or misleading BimmerLink for Beginners is written specifically for BMW owners who want to understand BMW diagnostics safely without technical jargon risky shortcuts or mechanical guesswork This guide explains BMW fault codes warning messages and live diagnostic data in plain English It helps you

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The RELLIM Code Book, 2005 **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 ISO 15031 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

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 GA8HP45Z *Recommended Practice for Diagnostic Trouble Code Definitions* Vehicle E E System Diagnostic Standards Committee,1999 This SAE Recommended Practice is applicable to all light duty and medium duty passenger vehicles and trucks with feedback fuel control system Specific applications of this document include diagnostic service and repair manuals repair databases and off board readout devices This document focuses on a diagnostic code format and code messages for automotive electronic control systems The use and appropriate updating of this document is strongly encouraged however this document does not prohibit the use of additional codes for additional diagnostics

Error-correcting Codes Jos H. Weber, TU Delft, Faculty of Electrical Engineering, Mathematics and Computer Science, 2007 **Some Aspects of Error Correcting Codes** N. Jensen, Technical University of Denmark. COM, Technical University of Denmark. TELE, 2001

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