



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

Manual E46 Fault Code

CO Houle



Manual E46 Fault Code:

Direct Support, General Support, and Depot Maintenance Manual, 1991 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, and special editions of all the models. **European Car**, 2005 Northeastern Geology and Environmental Sciences, 2003

Fault Code Manual Haynes Publishing, 2013-10. This DIY manual covers everything you need to know about automotive diagnostic fault codes. *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 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. The information is available on CD. CDs contain both English and Spanish languages. *2006 Systems Trouble Code Manual (1998-2006)* Autodata, 2006-04-01 **BMW 3 Series (E46) Service Manual** Bentley Publishers, 2010-10-01

This BMW Repair Manual 3 Series E46 1999-2005 is a comprehensive source of service information and technical specifications available for the BMW E46 platform 3 Series models from 1999 to 2005. Whether you're a professional or a do-it-yourself BMW owner, this manual will help you understand care for and repair your car. Though the do-it-yourself 3 Series owner will find this manual indispensable as a source of detailed maintenance and repair information, the owner who has no intention of working on his or her car will find that reading and owning this manual will make it possible to discuss repairs more intelligently with a professional technician. BMW E46 models and engines covered in this repair manual: 323i Ci M52 TU 2.5 liter engine, 328i Ci M52 TU 2.8 liter engine, 325i Ci xi M54 M56 2.5 liter engine, 330i Ci xi M54 3.0 liter engine, M3 S54 3.2 liter Motorsport engine. *Diagnostic Fault Codes Manual* Ал ь фамер Паблинг, ЗАО, *Automotive Diagnostic Fault Codes Techbook* Charles White, 1998 BMW 3-series Automotive Repair Manual Robert Rooney, John Harold Haynes, 1997. There is a Haynes manual for most popular domestic and import cars, trucks, and motorcycles. By conducting complete tear

downs and rebuilds the Haynes staff has discovered all the problems owners will find in rebuilding or repairing their vehicle. Documenting the process in hundreds of illustrations and clear step by step instructions makes every step easy to follow with the exact order of assembly and all the specifications needed to complete the job. From simple maintenance to trouble shooting and incomplete engine rebuilds it's easy with Haynes.

BMW 3 Series (E46) Service Manual Bentley Publishers, 2005. The BMW 3 Series E46 Service Manual 1999-2005 is a comprehensive source of service information and specifications for BMW 3 Series from 1999 to 2005. The aim throughout this manual has been simplicity, clarity, and completeness with practical explanations, step by step procedures, and accurate specifications. Whether you're a professional or a do-it-yourself BMW owner, this manual will help you understand care for and repair your E46 3 Series.

2003 Domestic Diagnostic Trouble Code Manual 1999-02 Autodata, 2003. Designed for the professional technician, Autodata's manuals feature minimum text, numerous simplified illustrations, and a rare clarity of presentation that saves the user time. The 2003 Domestic Diagnostic Trouble Codes Manual is based on the vehicle's manufacturer's information and includes:

1. Separate sections for specific vehicles and systems
2. Code accessing techniques described using concise text and clear illustrations, most without the need for dedicated test equipment
3. Clear tables providing Flash Codes, MIL, OBD I and OBD II P Codes, which identify the locations of the fault within the system
4. The probable cause for each code
5. Trouble code erasing procedures

Chilton's Diagnostic Trouble Code Manual, 1992-01-01. Chilton's Diagnostic Trouble Code Manual Chilton Automotive Books, 1992-08-01.

2003 Import Diagnostic Trouble Code Manual 1999-02 Autodata, 2003. Designed for the professional technician, Autodata's manuals feature minimum text, numerous simplified illustrations, and a rare clarity of presentation that saves the user time. The 2003 Import Diagnostic Trouble Codes Manual is based on the vehicle's manufacturer's information and includes:

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4. The probable cause for each code
5. Trouble code erasing procedures

Coverage is 1992-2002.

BMW 3-Series Automotive Repair Manual Robert Phillip Maddox, Joe L. Hamilton, John Harold Haynes, 2011.

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 vehicle's 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 **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 *BMW 3 and 5 Series Automotive Repair Manual* Larry Warren,1993

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web aug 22 2017 the more common control board at least in newer units is the integrated furnace control board this controls the same things as the simple ignition control board but it controls the furnace blower as well ultimately it is the simple ignition control board and the fan control board in one step by step sequence

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web control circuits for hvac systems the relay in the above control diagram controls a blower motor as shown furthermore this particular relay is controlled by the thermostat the 24 volt neutral leg will run from the transformer then go to one side of a coil on the relay the 24 hot leg of the transformer will go through the thermostat

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web the next step is to follow the lines and see where they go in this example diagram you can see that one leg of the secondary connects to the r terminal on the control board and the other leg connects to the c terminal in this example there s actually a c terminal present but that will not always be the case especially in old models

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bisa menggunakan rumus rumus berikut untuk mencari luas beberapa bangun datar yang cukup umum jajaran genjang alas x tinggi persegi sisi x sisi segitiga $\frac{1}{2} \times \text{alas} \times \text{tinggi}$ beberapa pakar matematika menggunakan

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web untuk menghitung luas suatu bidang datar misalnya persegi sering digunakan rumus baku yaitu panjang dikalikan lebar namun yang menjadi masalah jika nilai nilai tersebut tidak diketahui hal ini menjadi pekerjaan yang sangat rumit dan memerlukan beberapa pendekatan untuk menentukan luasnya

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web 1 ukurlah panjang dan lebarnya mulailah mengukur atau mencari tahu panjang dan lebar bangun datar itu atau dengan kata lain ukuran masing masing dari dua sisi yang bertemu di satu titik untuk sebuah jajaran genjang anda harus menemukan alas dan tingginya tetapi secara sederhana idenya sama dengan panjang dan lebar

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web rumus luas bangun datar rumus luas pada bangun datar adalah formula matematika yang dipakai untuk menghitung ukuran bidang dari bentuk geometris khusus formula formula ini memberikan metode untuk menghitung seberapa besar area yang tercakup oleh bangun datar tersebut

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web luas bidang datar adalah ukuran bagian dalam dari bidang datar tersebut kita mulai menghitung dari satuan luas terkecil misalnya satu meter persegi hingga menjadi bentuk persegi panjang kita dapat menemukan rumus untuk menghitung luas segi empat tersebut perhatikan gambar berikut pada gambar di atas segitiga merah dan coklat

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