

# BMW

## 5 Series 1997 ▶ 2003 Service Manual (E39)



This Bentley Manual is the only comprehensive, single source of service information and specifications available specifically for BMW 5 Series from 1997 to 2003. The aim throughout this manual has been simplicity, clarity and completeness, with practical explanations, step-by-step procedures and technical data. Whether you are a professional or a do-it-yourself BMW owner, this manual will help you understand, care for and repair your E39 5 Series.



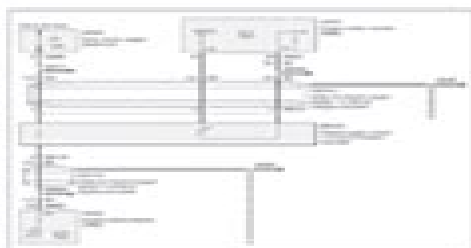
*Access Diagnostic Trouble Codes (DTCs) to diagnose engine management problems.  
130 Fuel Injection*



*Engine and cylinder head service, including double VANOS timing chain setup and adjustment.  
117 Camshaft Timing Chain*



*Detailed instructions on replacing front struts.  
210 Front Suspension*



*Engine management electrical circuit.  
ELE Electrical  
Wiring Diagrams*

### Features:

- Procedures for everything from the basic oil change service to interpreting the Malfunction Indicator Light (MIL). This manual tells you what to do and how and when to do it.
- Engine and cylinder head service, including camshaft timing chain setup and adjustment.
- Information for specific driveability problems, including explanation of engine management systems and BMW OBD II Diagnostic Trouble Codes (DTCs).
- Theory of operation and repair information for the Siemens and Bosch engine management systems.
- Drivetrain maintenance, troubleshooting, adjustment and repair of self-adjusting clutch (SAC), gearshift linkage, driveshaft and drive axles.
- Manual and automatic transmission removal, installation, seal replacement and external service.
- System description and repair information for Antilock Brakes (ABS), Automatic Stability Control (ASC) and Dynamic Stability Control (DSC).
- Heating and air conditioning repair (HKA and HKR), including component replacement.
- Body adjustments and repairs, including sunroof and tailgate.
- Wiring schematics and extensive electrical component section specifying relay, control module and ground locations with detailed illustrations and photos.

### Models and engines:

6-cylinder engines: M52, M52 TU, M54

V-8 engines: M62, M62 TU

### Engine management systems (Motronic):

Bosch M5.2, M5.2.1, ME 7.2

Siemens MS 41.0, MS 42.0, MS 43.0

### Manual transmissions:

S5D 250G, S6S 420G (Getrag)

S5D 320Z (ZF)

### Automatic transmissions:

A4S 270R, A4S 310R (GM)

A5S 360R, A5S 390R (GM)

A5S 325Z (ZF)

A5S 560Z, A5S 440Z (ZF)

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### Volume 1 of 2

- General Maintenance
- Engine
- Transmission
- Suspension, Steering and Brakes
- Body
- Equipment and Accessories



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# E39 Bmw Service And Repair Manual

**Peter G. Strasman**



### **E39 Bmw Service And Repair Manual:**

*BMW 5 Series (E39) Service Manual* Bentley Publishers, 2003 The ultimate service manuals Bentley manuals are the only comprehensive single source of service information and specifications available for BMW cars These manuals provide the highest level of clarity and completeness for all service and repair procedures Enthusiasts do it yourselfers and professional technicians will appreciate the quality of photographs and illustrations theory of operation and accurate step by step instructions If you are looking for better understanding of your BMW look no further than Bentley Even if you do not repair your own vehicle knowledge of its internal workings will help you when discussing repairs and maintenance with your professional automotive technician This Bentley Manual is the only comprehensive single source of service information and specifications available specifically for BMW 5 Series from 1997 to 2002 The aim throughout this manual has been simplicity clarity and completeness with practical explanations step by step procedures and accurate specifications Whether you are a professional or a do it yourself BMW owner this manual will help you understand care for and repair your E39 5 Series Though the do it yourself BMW owner will find this manual indispensable as a source of detailed maintenance and repair information the BMW 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 3- & 5-Series Service and Repair Manual*, 2013 *BMW Buyer's Guide* Fred Larimer, 2002 **Chilton's Import Auto Service Manual**, 2000 Contains general information for technicians on the specifications MIL resetting and DTC retrieval accessory drive belts timing belts brakes oxygen sensors electric cooling fans and heater cores of twenty one types of import cars **BMW 3-series Service and Repair Manual** Mark Coombs, Steve Rendle, 1996 *BMW 3- & 5-series Service and Repair Manual* Andrew K. Legg, Larry Warren, 1998 BMW 3 Saloon Touring Saloon 81 88 up to F 5 Series E34 518i 520i 525i 530i 535i Saloon Touring 88 91 F to J Does NOT cover models with DOHC V8 or Diesel engines or 4x4 For other 3 5 series models see manuals no 0276 0632 0815 1560 or 3210 Petrol 1 6 litre 1596cc 1 8 litre 1766 1795cc 2 0 litre 1990cc 2 5 litre 2494cc 2 8 litre 2788cc 3 0 litre 2986cc 3 5 litre 3430cc SOHC **BMW 5 Series Diesel (03-09) 52 to 10** Martynn Randall, 2011 BMW 5 Series Saloon E60 and Touring E61 with 4 6 cylinder turbo diesel engines 520d 525d 530d 2 0 litre 1995cc 2 5 litre 2497cc 3 0 litre 2993cc turbo diesel Does NOT cover petrol models 535d twin turbo diesel models or models with xDrive transmission Does NOT cover new 5 Series F10 F11 range introduced during 2010 *American Book Publishing Record*, 2004 *Autocar*, 2005 **Service and Repair Manual for BMW 3- & 5-Series** A. K. Legg, 2013 *Service and Repair Manual for BMW 1 Series* Martynn Randall, 2011 Hatchback and Coupe models with 4 cylinder petrol and diesel engines 1 6 litre 1596cc and 2 0 litre 1995cc petrol engines 2 0 litre 1995cc diesel engine Does not cover 2 5 or 3 0 litre engines or features specific to Convertible **BMW 3 Series** Martynn Randall, 2011 With a Haynes manual you can do it yourself from simple maintenance to basic repairs Haynes writes every book based on a complete teardown of the vehicle We learn the

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Service and Repair Manual for BMW 3-series Mark Coombs,Steve Rendle,2003 **BMW 5 Series 2 Vol (E39 Service Manual: 1997, 1998, 1999, 2000, 2001, 2002, 2003: 525i, 528i, 530i, 540i, Sedan, Sport Wagon** Bentley Publishers,2011-02 The BMW 5 Series E39 Service Manual 1997 2003 is a comprehensive source of service information and specifications for BMW 5 Series models from 1997 to 2003 The aim throughout this manual has been simplicity clarity and completeness with practical explanations step by step procedures and accurate specifications Whether you are a professional or a do it yourself BMW owner this manual will help you understand care for and repair your E39 5 Series Engines covered 6 cylinder engines M52 M52 TU M54 V 8 engines M62 M62 TU Fuel injection systems covered Bosch M 5 2 M 5 2 1 ME 7 2 Siemens MS 41 0 MS 42 0 MS 43 0 Manual transmissions covered Getrag S5D 250G S6S 420G ZF S5D 320Z Automatic transmissions covered A4S 270R A4S 310R A5S 360R A5S 390R A5S 325Z A5S 560Z A5S 440Z **Service and Repair Manual for BMW 3-series** Martynn Randall,2003 316i 318i 320i 323i 325i 328i 330i E46 models Saloon Coupe Touring Does NOT cover Compact Convertible or M3 Petrol 4 cyl engines 1 8 litre 1796cc 1 9 litre 1895cc 2 0 litre 1995cc inc Valvetronic engines Does NOT cover 1 6 litre 1596cc 4 cyl engine 6 cyl engines 2 2 litre 2171cc 2 5 litre 2494cc 2 8 litre 2793cc 3 0 litre 2979cc **BMW 5-Series Diesel Service and Repair Manual** Haynes Publishing,2015-04 **BMW 5 Series (E28) Service Manual 1982, 1983, 1984, 1985, 1986, 1987 1988** Bentley Publishers,1991-01-01 The BMW 5 Series E28 Service Manual 1982 1988 is a comprehensive single source of service information and specifications for BMW 5 Series E28 cars from 1982 1988 Whether you re a professional technician or a do it yourself BMW owner this manual will help you understand maintain and repair systems on 5 Series cars BMW E28 Models and engines covered in this BMW repair manual 528e B27 2 7 liter 533i B32 3 2 liter 535i B34 3 5 liter 535is B34 3 5 liter BMW E28 Transmissions covered in this BMW repair manual Getrag 260 with integral bellhousing Getrag 265 with removable bellhousing Technical features Complete preventive maintenance procedures from the yearly brake fluid change to resetting the oil service indicator and oxygen sensor lights This manual tells you what to do how and when to do it and why it s important Many of the maintenance recommendations exceed factory recommended service intervals and are designed to extend your BMW s service life Detailed troubleshooting and repair information for these Bosch fuel injection and engine management systems Motronic 528e 533i 535i 535is and Motronic 1 1 528e from March 1987 This Motronic 1 1 service information is not covered in BMW s

factory repair manual Comprehensive Engine Management information for specific BMW 5 Series driveability problems including troubleshooting electronically controlled idle speed faults that are frequently misdiagnosed Troubleshooting tips with fast proven repair procedures used by BMW technicians and specialists Critical updates and hard to find information from dealer service bulletins such as how to replace the camshaft timing belt sprocket and tensioner with the correct Z 127 update and cylinder head bolt replacement on 528e models Large easy to read wiring schematics for major circuits along with a full listing of ground points connector and splice locations and electronic component locations Procedures and specifications for rebuilding engines and manual transmissions      **Service and Repair Manual for BMW 3 Series** Peter G. Strasman,1995

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