

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.



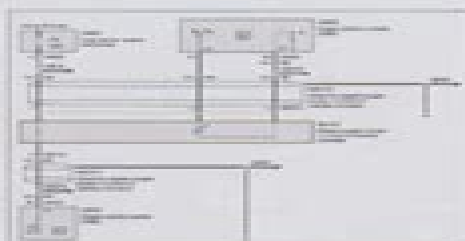
Access Diagnostic Trouble Codes (DTCs) to diagnose engine management problems.
130 Fuel Injection



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



Detailed instructions on replacing front struts.
310 Front Suspension



Engine management electrical circuitry.
E39 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 Anti-lock Brakes (ABS), Automatic Stability Control (ASC) and Dynamic Stability Control (DSC).
- Heating and air conditioning repair (HKR 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

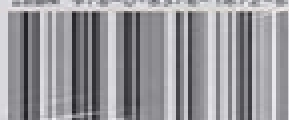
Manual transmissions

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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Workshop Manual Bmw 528i E39

Martynn Randall



Workshop Manual Bmw 528i E39:

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 yourselves 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 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 **American Book Publishing Record**, 2004 **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

Forthcoming Books Rose Arny, 2003 *Repair Manual, BMW 528i - 530i US*. Bayerische Motoren Werke, Autocar, 2004 **BMW 5 Series (E39): Mechanical** Robert Bentley, inc, 2010 **BMW Owners Workshop Manual** A. K. Legg, 1987 Saloon Does NOT cover revised range introduced October 1981 Petrol 2 5 litre 2494cc 2 8 litre 2788cc BMW 5 Series (E39): Mechanical Robert Bentley, inc, 2007 **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 *BMW owners workshop manual* A.K. Legg,1983 **BMW 3- & 5-Series Service and Repair Manual** ,2013 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 525, 528 and 528i Owner's Workshop Manual* A. K. Legg,2012-09 Information on routine servicing and repair for the DIY mechanic with tasks described and photographed in a step by step sequence **BMW Owners Workshop Manual** J. H. Haynes,A. K. Legg,1983-01-01 *Autocar & Motor* ,1992-08 BMW Owners Workshop Manual John Harold Haynes,Colin D. Barge,1980 BMW Owners Workshop Manual John Harold Haynes,1982

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