

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.



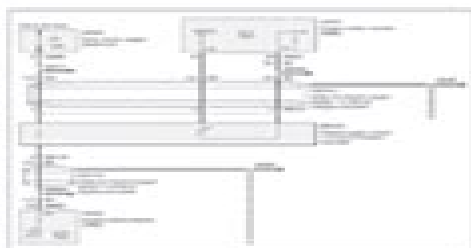
*Access Diagnostic Trouble Codes (DTCs) to diagnose engine management problems.
130 Fuel Injection*



*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.
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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Bmw 5 Series E39 Manual

James Taylor



Bmw 5 Series E39 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 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 **BMW Buyer's Guide**

Fred Larimer,2002 BMW 5 Series (E39): Mechanical Robert Bentley, inc,2007 **BMW 5 Series (E39): Mechanical** Robert Bentley, inc,2010 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 Cars 1945 to 2013* Trevor Alder,2025-07-15 A comprehensive pictorial history of BMW cars covering the post war models right through to 2013 when electric and hybrid models started to make an appearance The detailed text covers all model ranges and includes full specs colour variations and styling details Illustrations include period photographs advertising brochures and original drawings Complementing the historical content are technical specifications ongoing production changes and build figures making this the ideal reference work for model

identification and authenticity Appendices cover model designations motorsport achievements and TV movie appearances This title is a bookshelf must for anyone interested in BMW motoring heritage **BMW 5 Series** James Taylor,1999 In this manual motoring historian James Taylor tells the story of the design development and production of the BMW 5 Series through each generation Topics covered include the history of BMW before the 5 Series detailed model by model specifications production details and running costs M Series and touring models and advice on buying a BMW 5 Series today

Focus On: 100 Most Popular Station Wagons Wikipedia contributors, [Focus On: 100 Most Popular Sedans](#) Wikipedia contributors, [American Book Publishing Record](#) ,2004 **Forthcoming Books** Rose Arny,2003 **Autocar** ,2004 *European Car* ,2007 [Ward's Auto World](#) ,2003 *Autocar & Motor* ,1992-03 **BMW 3- & 5-Series Service and Repair Manual** ,2013 [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 5 Series \(E60, E61\) Service Manual: 2004, 2005, 2006, 2007, 2008, 2009, 2010: 525i, 525xi, 528i, 528xi, 530i, 530xi, 535i, 535xi, 545i, 550i](#) Bentley Publishers,2011-09-23 The BMW 5 Series E60 E61 Service Manual 2004 2010 contains in depth maintenance service and repair information for the BMW 5 Series from 2004 to 2010 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 BMW discuss repairs more intelligently with a professional technician Models covered 525i and 530i M54 engine 2004 2005 N52 engine 2006 2007 528i N52K engine 2008 2010 535i N54 twin turbo engine 2008 2010 545i N62 V8 engine 2004 2005 550i N62 TU V8 engine 2006 2010 *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

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