

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.



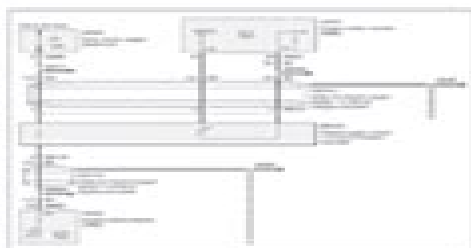
*Access Diagnostic Trouble Codes (DTCs) to diagnose engine management problems.
130 Fuel Injection*



*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 drivability 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
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- Transmission
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