

## BMW 5 Series (E39) Service Manual: 1997–2003 525i, 528i, 530i, 540i, Sedan, Sport Wagon

Price: \$169.95

Bentley Stock Number: B503

Publication Date: 2011.feb.18

ISBN: 978-0-8376-1672-8

2 volume hardcover set, 8 3/8 in. x 11 in.

Case quantity: 1

2072 pages, 2667 photos, illustrations and diagrams

**Includes color 14 page BMW 5 Series Product Familiarization section**

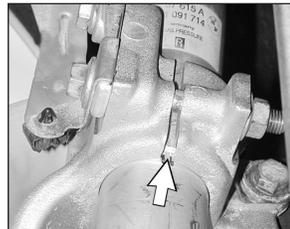
The **BMW 5 Series (E39) Service Manual: 1997-2003** contains in-depth maintenance, service and repair information for the BMW 5 Series from 1997 through 2003. The aim throughout has been simplicity and clarity, with practical explanations, step-by-step procedures and accurate specifications. Whether you're a professional or a do-it-yourself BMW owner, this manual helps you understand, care for and repair your BMW.

### Technical features:

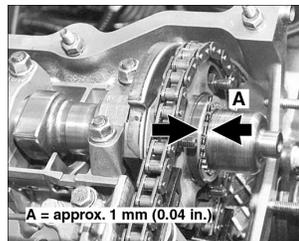
- Procedures from the basic oil change service to interpreting the Malfunction Indicator Light (MIL). This manual tells you what to do and how and when to do it.
- Engine and cylinder head service, including camshaft timing chain setup and adjustment.
- Information for specific driveability problems, 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 (IHKA and IHKR), 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.



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



Detailed instructions on replacing front struts  
**310 Front Suspension**



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

#### Engines covered

6-cylinder engines: M52, M52 TU, M54  
V-8 engines: M62, M62 TU

#### 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