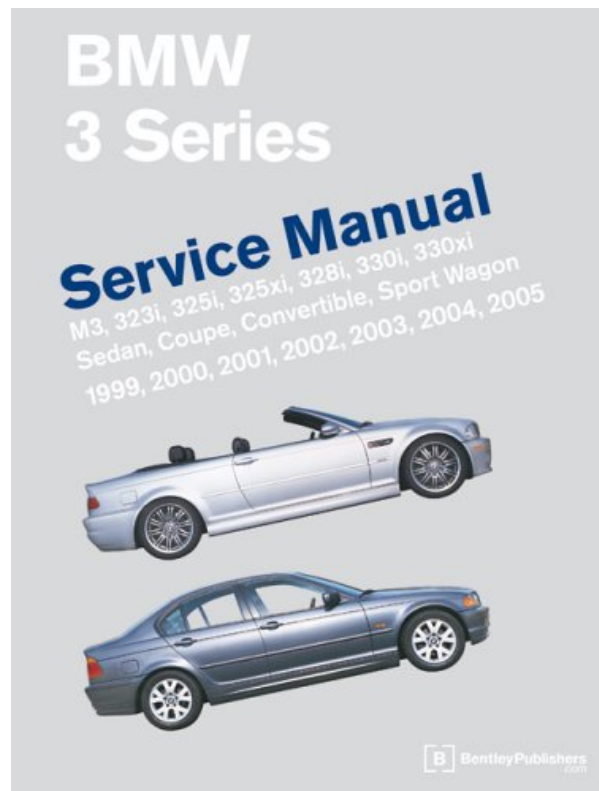


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# BMW 3 Series

## Service Manual

M3, 323i, 325i, 325xi, 328i, 330i, 330xi  
Sedan, Coupe, Convertible, Sport Wagon  
1999, 2000, 2001, 2002, 2003, 2004, 2005



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M3, 323i, 325i, 325xi, 328i, 330i, 330xi, Sedan, Coupe, Convertible, Sport Wagon This Bentley Manual is a comprehensive source of service information and specifications for BMW 3 Series from 1999 to 2005. The aim throughout this manual has been simplicity, clarity and completeness, with practical explanations, step-by-step procedures and accurate specifications. Whether you're a professional or a do-it-yourself BMW owner, this manual will help you understand, care for and repair your E46 3 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 E46 models and engines covered in this BMW repair manual:

323i/Ci

(M52 TU, 2.5 liter engine)

328i/Ci

(M52 TU, 2.8 liter engine)

325i/Ci/xi

(M54 / M56, 2.5 liter engine)

330i/Cis/xi

(M54, 3.0 liter engine)

M3

(S54, 3.2 liter Motorsport engine)

Technical highlights:

\* Procedures for everything from oil change service to interpreting the Malfunction Indicator Light (MIL). This manual tells you what to do and when to do it.

\* Engine and cylinder head service, including valve clearance adjustment on the S54 engine.

\* 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 Siemens MS 42.0, MS 43.0, MS 45.1 and MS S54 engine management, resonance/turbulence intake manifold and Double VANOS (Variable Camshaft Timing).

\* Drivetrain maintenance, troubleshooting, adjustment and repair of self-adjusting clutch (SAC), gearshift linkage, driveshaft, drive axles and, wheel drive system.

\* Manual, sequential manual (SMG), 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, convertible top and tailgate.

\* Wiring schematics, including power distribution and ground locations.

\* Dedicated electrical component guide specifying relay, control module and ground locations with detailed illustrations and photos.

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- Published on: 2005-04
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- Binding: Paperback
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A MUST for a BMW Owner!

By Mike C

Ever wonder why BMW dealerships make a ton of money? They have this book!

My car is a 2002 325i. I use this book to analyze the 1-4 jobs required for the BMW. I study the job and wonder, is the dealership ripping me off or providing a quality service? Can I do this myself or should I outsource?

Case #1: The key system - The auto keys use a system based on the car's memory. I had a problem where the keys were operating out of order. Dealership wanted \$125 to LOOK at it. Saved \$50 and purchased book. Looked up key system in book. Solved key problem in 30 minutes.

Case #2: The Oil and Air Filter System - A little scary with an import because it looks different than US cars.

The book explains everything, so I do these myself, saving probably \$200-\$400 per year.

Case #3: The Coolant Flush - Dealer wants \$250 to perform flush. I was against this at first, until the book pointed out a bleed system and a website mentioned that the dealership uses a special auto tool with the bleed system to extract air from the system. Special Auto Tools are where it might be worth taking to a dealer. This case is still open, but its good to know I can do it if things get tight.

2 of 2 people found the following review helpful.

Good service manual

By David R. Cayll

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