

BMW 3 Series

2006 ▶ 2011 (E90, E91, E92, E93)

Service Manual



This Bentley Manual contains in-depth maintenance, service and repair information for the BMW 3 Series from 2006 to 2011*. 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.

The do-it-yourself BMW owner will find this manual indispensable as a source of detailed maintenance and repair information. Even if you have no intention of working on your vehicle, you will find that reading and owning this manual makes it possible to discuss repairs more intelligently with a professional technician.



Bentley technical editors removing Valvetronic motor on N51 engine.



Learn how to reset condition-based service (CBS) intervals using iDrive or stalk switch (cars without iDrive).
020 Maintenance



Servicing the direct injection system on turbo models, including replacing fuel pump.
140 Fuel Tank and Fuel Pump



Detailed brake pad and rotor service.
340 Brakes



Extensive electrical component location information.
ECL Electrical Component Locations

Features

- Maintenance procedures from changing the ATF to replacing the cabin microfilter. This manual tells you what to do and how and when to do it.
- Step-by-step variable camshaft timing (VANOS) service.
- Cylinder head cover gasket and crankshaft seal replacement.
- Cooling system and radiator service.
- Fuel injection and ignition system diagrams and explanations.
- Information on advanced technical features such as Valvetronic, iDrive, turbo boost and DSC (dynamic stability control).
- Suspension repair procedures.
- Brakes, steering and ABS troubleshooting and repair.
- Heating and air-conditioning repair, including A/C component replacement.
- Body and hood repairs and adjustments.
- Electrical system service, with an easy-to-use illustrated component locator section.
- Comprehensive wiring schematics, including fuses and grounds.
- BMW OBD II diagnostic trouble codes, SAE-defined OBD II P-codes, as well as basic scan tool operation.
- BMW factory tolerances, wear limits, adjustments and tightening torques.

Normally aspirated models (6-cylinder 3.0 engines)

- N52 engine: 325i, 325xi, 330i, 330xi (2006)
- N52KP engine: 328i, 328xi (2007–2011)
- N51 (SULEV) engine: 328i, 328xi (2007–2011)

Turbo-charged models (6-cylinder 3.0 engines)

- N54 engine: 335i, 335xi (2009–2010), 335xi (2011)
- N55 engine: 335i, 335xi (2011)

Manual transmissions (remove, install, external service)

- Getrag GS6-17BG
- ZF GS6-37BZ
- ZF GS6-53DZ

Double clutch transmission (fluid service)

- Getrag GS7D36SG

Automatic transmissions (remove, install, external service)

- GM GA6L45R
- ZF GA6HP10Z

* This manual covers the 2012 BMW 3 Series Coupe (E90) and the 2012 BMW 3 Series Convertible (E93). The E92 and E93 models were extended through the 2012 model year.

Book Code: B311

ISBN 978-0-8376-1723-7



9 780837 461723

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Volvo 240 Service Manual 1983 Through 1993 Bentley Publishers,1993 Vehicle Maintenance Bentley BMW 5-Series 1989-95 Service Manual Bentley Publishers,1998-07-03 If you re looking for better understanding of your BMW look no further This manual provides the highest level of clarity and completeness for all service and repair procedures Covers 525i 530i 535i 540i including touring *BMW Enthusiast's Companion* BMW Car Club of America,1995 BMW owners and BMW CCA members provide specific information for your BMW Valuable insights and technical information ranging from basic service tips to advanced driving theory Inside secrets on maintaining and preserving your BMW from properly washing and waxing your car to how to reset the service indicator lights Driving techniques ranging from basic car control to choosing apexes on the track Discover whether your car oversteers or understeers and how weight transfer affects traction and vehicle performance Learn the difference between torque and horsepower and how to select the right tires for your BMW Find out which performance modifications work which ones don t and why **BMW 3-series** Robert Bentley, inc,Bentley Publishers,1991 Engine coverage1 8 liter 4 cylinder B18 2 7 liter 6 cylinder B27 2 5 liter 6 cylinder B25 Transmission coverageGetrag 240 4 cylinder cars Getrag 260 6 cylinder cars *Bosch Fuel Injection and Engine Management C* Probst,1989-11-27 This Bosch Bible fully explains the theory troubleshooting and service of all Bosch systems from D Jetronic through the latest Motronics Includes high performance tuning secrets and information on the newest KE and LH Motronic systems not available from any other source Bentley BMW 3 Series Service Manual 1992-1998 Bentley Publishers,1999 If you re looking for better understanding of your E36 BMW look no further See and learn how to perform routine maintenance procedures with the highest level of clarity and comprehensiveness This in depth manual provides maintenance procedures for everything from brake fluid changes to resetting the service indicator Covers M3 318i 323i 325i 328i sedan coupe and convertible models 1992 98 **Ford Fuel Injection & Electronic Engine Control** Charles O. Probst,1993 The authoritative hands on book for Ford Engine Control Systems Author Charles Probst worked directly with Ford engineers trainers and technicians to bring you expert advice and inside information on the operation of Ford systems His comprehensive troubleshooting service procedures and tips will help you master your Ford s engine control system

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FJ40 or a new Land Cruiser that's never left pavement Author veteran truck mechanic and off road expert Moses Ludel has written the only comprehensive source of information for Toyota Trucks and Land Cruisers a history buyer's guide service manual and high performance tuning book all in one Discover every aspect of Toyota trucks from their origins in 1958 to the latest technological advances You'll learn tips for buying the right new or used truck and which accessories make sense for your needs Step by step procedures with hundreds of photos cover basic maintenance and more complicated work like tune ups valve adjustments brake jobs and installing aftermarket suspension lift kits Get the hot set up for your truck whether you want low end torque or high RPM power Moses gives specific tuning recommendations for engines from the early inline 6s to the advanced 4 5L 24 valve DJ engine He shares expert insights into the best high performance components and the latest technology from Toyota Racing Development You'll also find suspension and chassis modifications and the best tire and wheel combinations Comprehensive coverage of Toyota Trucks and Land Cruisers from 1958 1996 including 4Runner SR 5 Tacoma T 100 FJ25 FJ40 FJ43 FJ45 FJ55 FJ80 FJ60 DJ80 Stout Hi Lux Xtra Cab Cab and Chassis Models

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