

BMW 3 Series

2012 ▶ 2015 (F30, F31, F34)

Service Manual

This Bentley Manual contains in-depth maintenance, service and repair information for the BMW 3 Series from 2012 to 2015. 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 3 Series. 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
angle-torquing front strut
brace.*



*Learn how to reset condition-
based service (CBS)
intervals using iDrive.
620 Maintenance*



*Direct fuel injection
service, including
replacing and resetting
injector quantity
compensation.
130 Fuel Injection
(N20, N26, N55 engine)*



*Drive axle, driveshaft and
wheel bearing service.
360 Driveshafts,
310 Front Suspension,
330 Rear Suspension*

Features

- Maintenance procedures from changing the cabin microfilter to replacing and registering a new battery. This manual tells you what to do and how and when to do it.
- Front-to-rear fluid and lubricant service, including xDrive transfer case fluid and ATF.
- Cylinder head cover gasket and crankshaft seal replacement.
- Cooling system, thermostat and radiator service.
- Gasoline fuel and ignition system diagrams and explanations for turbo-valvetronic-direct injection (TVDi) engines.
- Diesel fuel injection system diagrams and explanations for turbo-direct injection (TDi) engine management systems.
- Service and repair information on BMW EfficientDynamics technology, such as Valvetronic, xDrive, TwinPower turbo, and DSC (dynamic stability control).
- Twin scroll (gasoline) and variable vane (diesel) turbocharger replacement.
- Step-by-step variable camshaft timing (VANOS) service.
- Suspension repairs, including wheel bearing replacement.
- 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.

Engines (Gasoline)

- N20 engine: 320i, 328i, including xDrive
- N26 (SULEV) engine: 328i, including xDrive
- N55 engine: 335i, including xDrive

Engine (Diesel)

- N47 engine: 328d, including xDrive

Manual transmissions (remove, install, external service)

- GS6-17BG (4-cylinder models)
- GS6-45BZ (6-cylinder RWD models)
- GS6X-45BZ (6-cylinder with xDrive models)

Automatic transmissions (remove, install, external service)

- ZF 8AHP45Z

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Martynn Randall



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