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- › [BMW](#) /
- › [BMW 7 Series \(E38\) Service Manual: 1995-2001](#)

BMW E38

BMW 7 Series (E38) Service Manual: 1995-2001

Models Covered: 740i, 740iL, 750iL

INTRODUCTION

This comprehensive service manual provides detailed maintenance, service, and repair information for BMW 7 Series (E38) models produced from 1995 to 2001. It is designed to assist both professional technicians and do-it-yourself BMW owners in understanding, caring for, and repairing their vehicles. The manual emphasizes clarity, practical explanations, step-by-step procedures, and accurate specifications.

Even if you do not intend to perform all repairs yourself, owning this manual will enable more informed discussions with professional technicians regarding your vehicle's service needs.

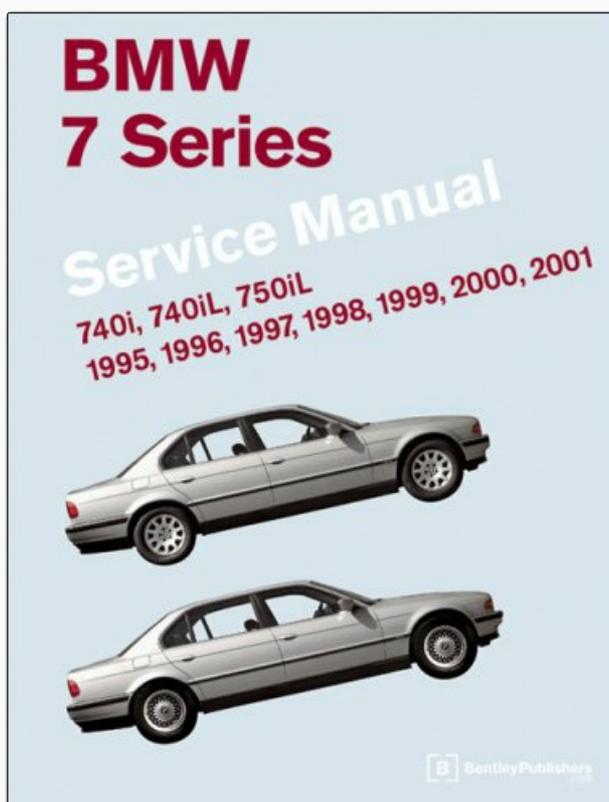


Image: Front cover of the BMW 7 Series (E38) Service Manual, displaying the title, covered models, and a visual representation of the vehicle.

MODELS, ENGINES, AND TRANSMISSIONS COVERED

V8 Models and Engines:

- **740i, 740iL:** M60 4.0 liter, M62 or M62 TU 4.4 liter engines.

V12 Models and Engines:

- **750iL:** M73 or M73 TU 5.6 liter engines.

Automatic Transmissions (Removal, Installation, External Service):

- A5S 560Z
- A5S 440Z

KEY SERVICE PROCEDURES AND MAINTENANCE

This manual details a wide range of service and maintenance procedures, including:

- Routine maintenance, from replacing fresh air and recirculation microfilters to changing Automatic Transmission Fluid (ATF).
- Step-by-step engine timing chain service.
- Cylinder head cover and crankshaft seal replacement.
- Cooling system procedures: filling, bleeding, coolant pump replacement, and engine cooling fan and radiator service.
- Fuel injection and ignition system diagrams and explanations, covering five different Bosch Motronic engine management systems.
- Suspension repair procedures, including stabilizer bar link, control arm, and axle boot replacement.
- Brakes, steering, and ABS maintenance, troubleshooting, and repair.
- Heating and air-conditioning repair, including A/C component replacement.
- Body, hood, and sunroof repairs and adjustments.
- Electrical system service, with an easy-to-use illustrated component locator section.
- Wiring schematics for selected models, including power distribution and grounds.
- BMW OBD II diagnostic trouble codes, SAE-defined OBD II P-codes, and basic scan tool operation.
- Comprehensive BMW factory tolerances, wear limits, adjustments, and tightening torques.

ENGINE MANAGEMENT SYSTEMS (MOTRONIC)

The manual provides detailed information on the following Bosch Motronic engine management systems:

- Bosch M3.3 (OBD I)
- Bosch M5.2 (OBD II)
- Bosch M5.2.1 (OBD II)
- Bosch M5.2.1 (OBD II / LEV)
- Bosch ME 7.2 (OBD II)

TROUBLESHOOTING

The manual includes sections dedicated to troubleshooting common issues, particularly for brakes, steering, and ABS systems. It also covers BMW OBD II diagnostic trouble codes and SAE-defined OBD II P-codes, along with basic scan tool operation, to assist in diagnosing vehicle problems.

TECHNICAL SPECIFICATIONS

Specification	Detail
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