

## Introduction to the BMW 3- and 5-Series

The E30 3-Series range first became available in the UK in March 1983, and continued in production until April 1991, when the revised E36 3-Series range (not covered by this manual) was introduced. Convertible and Touring (Estate) models were introduced for 1988, and these models have continued in E30 form to date.

The E28 5-Series models were introduced in October 1981, and were superseded in June 1988 by the revised E34 5-Series range, Touring versions of which became available from March 1992. Throughout this manual, E28 models are also referred to as "old-shape", while E34 models are designated "new-shape".

The models covered by this manual are equipped with single overhead cam in-line four- and six-cylinder engines. Early 316 and 518 models are fitted with carburettors, but all other models are fitted with fuel injection systems. Transmissions are a five-speed manual, or three- or four-speed automatic. The transmission is mounted to the back of the engine, and power is transmitted to the fully-independent rear axle through a two-piece propeller shaft. The final drive unit is bolted solidly to a frame crossmember, and drives the rear wheels through driveshafts

equipped with inner and outer constant velocity joints.

The front suspension is of MacPherson strut type, with the coil spring/shock absorber unit making up the upper suspension link. The rear suspension is made up of coil spring-over-shock absorber struts, or coil springs and conventional shock absorbers, depending on model.

The brakes are disc type at the front, with either drums or discs at the rear, depending on model. Servo-assistance is standard on all models. Some later models are equipped with an Anti-lock Braking System (ABS).

All models are manufactured to fine limits, and live up to the BMW reputation of quality workmanship. Although many of the models covered by this manual appear complex at first sight, they should present no problems to the home mechanic.

### Note for UK readers

The greater part of this manual was originally written in the USA. Some of the photographs used are of American-market models, but the procedures given are fully applicable to right-hand-drive models (or have been amended where necessary).

## Acknowledgements

Thanks are due to Champion Spark Plug, who supplied the illustrations showing spark plug conditions. Thanks are also due to Sykes-Pickavant Limited, who provided some of the workshop tools, and to all those people at Sparkford who helped in the production of this manual. Technical writers who contributed to this project include Robert Maddox, Mark Ryan and Mike Stubblefield.

We take great pride in the accuracy of information given in this manual, but vehicle manufacturers make alterations and design changes during the production run of a particular vehicle of which they do not inform us. No liability can be accepted by the authors or publishers for loss, damage or injury caused by any errors in, or omissions from, the information given.

## Project vehicles

The main project vehicle used in the preparation of this manual for the UK market was a 1988 BMW 318i with an M40/B18 engine.



BMW 320i Saloon (E30)

# Bmw E34 Workshop Manual

**Martynn Randall**



## **Bmw E34 Workshop Manual:**

**Repair Manual, BMW 525i, 535i-E34 US.** Bayerische Motoren Werke,1988 BMW 5 Series (E34) Service Manual 1989, 1990, 1991, 1992, 1993, 1994 1995 Bentley Publishers,2012-02 The BMW 5 Series E34 Service Manual 1989 1995 is a comprehensive single source of service information and specifications specifically for BMW 5 Series from 1989 to 1995 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 E34 5 Series *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 *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

**Saab 900, 16 Valve Official Service Manual, 1985-1993** Bentley,Bentley Publishers,1993 These official Saab manuals are the only factory authorized comprehensive single source of service information and specifications available Whether you re a professional technician or a do it yourselfer these manuals will help you understand care for and repair your Saab Everything from fundamental automotive concepts and maintenance procedures to complex electrical system troubleshooting and complete engine overhaul is clearly explained Critical updates and information from the Saab Service Information Manual the Parts Service Information System and Saab Service Training have been included as well as fast proven repair procedures and tips used by Saab technicians *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 **BMW 3- & 5-series Service and Repair Manual** Andrew K. Legg,Larry Warren,1998 BMW 3 Saloon Touring Saloon 81 88 up to F 5 Series E34 518i 520i 525i 530i 535i Saloon Touring 88 91 F to J Does NOT cover models with DOHC V8 or Diesel engines or 4x4 For other 3 5 series models see manuals no 0276 0632 0815 1560 or 3210 Petrol 1 6 litre 1596cc 1 8 litre 1766 1795cc 2 0 litre 1990cc 2 5 litre 2494cc 2 8 litre 2788cc 3 0 litre 2986cc 3 5 litre 3430cc SOHC **BMW Z3 Roadster** ,1998 This Bentley Manual is the only comprehensive single source of service information specifications available for BMW Z3 Roadster from 1996 to 1998 The aim throughout this manual has been simplicity clarity completeness with practical explanations step by step procedures accurate specifications Whether you re a professional or a do it yourself BMW owner this manual will help you understand care for repair your Z3 Roadster

**Supercharged! Design, Testing and Installation of Supercharger Systems** Corky Bell,2002-01-07 The

supercharger has become a modern environmentally friendly and powerful piece of bolt on equipment For anyone interested in installing a system or just learning about them this book is a must have **Chilton's Import Auto Service Manual**,2000 Contains general information for technicians on the specifications MIL resetting and DTC retrieval accessory drive belts timing belts brakes oxygen sensors electric cooling fans and heater cores of twenty one types of import cars 101 Performance Projects for Your BMW 3 Series 1982-2000 Wayne R. Dempsey,2006-09-15 Since its introduction in 1975 the BMW 3 series has earned a reputation as one of the world s greatest sports sedans Unfortunately it has also proven one of the more expensive to service and maintain This book is dedicated to the legion of BMW 3 series owners who adore their cars and enjoy restoring modifying and maintaining them to perfection its format allows more of these enthusiasts to get out into the garage and work on their BMWs and in the process to save a fortune Created with the weekend mechanic in mind this extensively illustrated manual offers 101 projects that will help you modify maintain and enhance your BMW 3 series sports sedan Focusing on the 1984 1999 E30 and E36 models 101 Performance Projects for Your BMW 3 Series presents all the necessary information covers all the pitfalls and assesses all the costs associated with performing an expansive array of weekend projects **BMW 3- & 5-Series Service and Repair Manual** ,2013 **BMW 5 Series Diesel (03-09) 52 to 10** Martynn Randall,2011 BMW 5 Series Saloon E60 and Touring E61 with 4 6 cylinder turbo diesel engines 520d 525d 530d 2 0 litre 1995cc 2 5 litre 2497cc 3 0 litre 2993cc turbo diesel Does NOT cover petrol models 535d twin turbo diesel models or models with xDrive transmission Does NOT cover new 5 Series F10 F11 range introduced during 2010 **Owners Workshop Manual for BMW 3-Series** Martynn Randall,2015 *BMW Buyer's Guide* Fred Larimer,2002 **BMW 5 Series (E39) Service Manual** Bentley Publishers,2003 The ultimate service manuals Bentley manuals are the only comprehensive single source of service information and specifications available for BMW cars These manuals provide the highest level of clarity and completeness for all service and repair procedures Enthusiasts do it yourselfers and professional technicians will appreciate the quality of photographs and illustrations theory of operation and accurate step by step instructions If you are looking for better understanding of your BMW look no further than Bentley Even if you do not repair your own vehicle knowledge of its internal workings will help you when discussing repairs and maintenance with your professional automotive technician This Bentley Manual is the only comprehensive single source of service information and specifications available specifically for BMW 5 Series from 1997 to 2002 The aim throughout this manual has been simplicity clarity and completeness with practical explanations step by step procedures and accurate specifications Whether you are a professional or a do it yourself BMW owner this manual will help you understand care for and repair your E39 5 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 3 and 5 Series Automotive

Repair Manual Larry Warren,1993      *BMW Owners Workshop Manual* A. K. Legg,1987 Saloon Does NOT cover revised range introduced October 1981 Petrol 2 5 litre 2494cc 2 8 litre 2788cc      **Autocar** ,1999      **BMW Owners Workshop Manual** John Harold Haynes,1982

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