

MINI Cooper

2007 ▶ 2013 (R55, R56, R57)

Service Manual



This Bentley Manual is a comprehensive source of service information and specifications for MINI Cooper models from 2007 to 2013 (R55, R56, R57). 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 MINI owner, this manual will help you understand, care for and repair your car.

Though the do-it-yourself MINI owner will find this manual indispensable as a source of detailed maintenance and repair information, the owner who has no intention of working on his or her car will find that reading and owning this manual makes it possible to discuss repairs more intelligently with a professional technician.



Bentley technical authors testing fuel pump on the Cooper S engine.



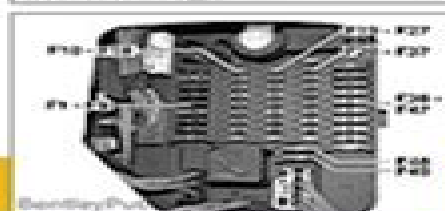
Step-by-step instructions for resetting iCS service items, 600 Maintenance



Detailed engine service, including VANOS camshaft timing adjustment N12 Camshaft Timing Chain



High pressure fuel system service on turbo engine, including replacing HP-Fuel pump, 550 Fuel Tank and Fuel Pump



Comprehensive fuse, relay, and electrical component locations, ECU Electrical Component Locations

Features

- Procedures for everything from changing the ATF to replacing a dirty cabin microfilter and resetting the CBS (condition based service) system. This manual tells you what to do and how and when to do it.
- Engine and cylinder head service with variable camshaft timing (VANOS) setup and adjustment, including Valvetronic service on N12, N16, and N18 engines.
- Drivability troubleshooting and detailed repair information for the Siemens DME engine management systems.
- Turbocharger and intercooler information, including component removal and replacement (Cooper S, JCW).
- Drivetrain maintenance, including troubleshooting, adjustment and repair of clutch, gearshift linkage and drive axles.
- Suspension repairs, including strut and control arm replacement procedures.
- Manual and automatic transmission removal, installation, seal replacement and external service.
- System repair information for antilock brakes (ABS), automatic stability control (ASC) and dynamic stability control (DSC).
- Heating and air-conditioning repair (HKX / HKVA), including component replacement.
- Body adjustments and repairs for sunroof and convertible, including resetting of the rollover protection system.
- Electrical system service, including an easy to use electrical component section with detailed illustrations and photos.
- Comprehensive wiring schematics, including fuses and grounds.
- MINI OBD II diagnostic trouble codes, SAE-defined and OBD II P-codes, as well as basic scan tool information and OBD II diagnostic trouble codes (DTCs).
- MINI factory tolerances, wear limits, adjustments and tightening torques.

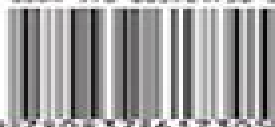
Models and engines covered

- | | |
|------------------|----------------------------------------------------------------|
| Cooper: | 1.6 liter normally-aspirated engine
(engine codes N12, N16) |
| Cooper S: | 1.6 liter turbocharged engine
(engine codes N14, N18) |

Transmissions covered

- | | |
|-------------------|-------------------------------------------------------------|
| Manual: | 6-speed Getrag (GS6-55BG for Cooper, GS6-53BG for Cooper S) |
| Automatic: | 6-speed with Agitronic, Aisin (GM6F21WA) |

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Mini R56 Bentley Manual

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Mini R56 Bentley Manual:

MINI Cooper (R55, R56, R57) Service Manual Bentley Publishers, 2011 The MINI Cooper Cooper S Clubman R55 R56 R57 2007 2011 Service Manual is a comprehensive source of service information and specifications for MINI Cooper models from 2007 to 2011 also known as the Mk II 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 MINI owner this manual will help you understand care for and repair your car Engines covered N12 2007 2010 N14 2007 2010 N16 2011 N18 2011 Transmissions covered Automatic gearbox 6 speed AISIN GA6F21WA Manual gearbox 6 speed Getrag GS6 55BG for Cooper GS6 53BG for Cooper S *Mini Cooper (R55, R56, R57) Service Manual: 2007, 2008, 2009, 2010, 2011, 2012, 2013: Cooper, Cooper S, John Cooper Works (Jcw) Including Clubman, Con* Bentley Publishers, 2014-10-01 The MINI Cooper Cooper S Clubman R55 R56 R57 2007 2013 Service Manual is a comprehensive source of service information and specifications for MINI Cooper models from 2007 to 2013 Mk II 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 MINI owner this manual will help you understand care for and repair your car Engines covered Cooper 1 6 liter normally aspirated engine engine codes N12 N16 Cooper S 1 6 liter supercharged engine engine codes N14 N18 Transmissions covered Manual 6 speed Getrag GS6 55BG for Cooper GS6 53BG for Cooper S Automatic 6 speed with Agitronic Aisin GA6F21WA Autocar ,2004 Workshop manual for Bentley cars. (Volume 2 L-U). Bentley Motors Limited, 1931 **Chilton's Mini 2002-11 Repair Manual** Martynn Randall, Peter T. Gill, 2012 Covers U S and Canadian models of Mk I models R50 Cooper 2002 through 2006 R52 Cooper Convertible Cooper S Convertible 2005 through 2008 R53 Cooper S 2002 through 2006 Mk II models R55 Cooper Clubman Clubman S 2008 through 2011 R56 Cooper Cooper S 2007 through 2011 R57 Cooper Convertible Cooper S Convertible 2009 through 2011 Includes John Cooper Works JCW models Does not include Countryman models ro covertible top information 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 5 Series (E60, E61) Service Manual: 2004, 2005, 2006, 2007, 2008, 2009, 2010: 525i, 525xi, 528i, 528xi, 530i, 530xi, 535i, 535xi, 545i, 550i** Bentley Publishers, 2011-09-23 The BMW 5 Series E60 E61 Service Manual 2004 2010 contains in depth maintenance service and repair information for the BMW 5 Series from 2004 to 2010 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 discuss repairs more intelligently with a professional technician Models covered 525i and 530i M54 engine 2004 2005 N52 engine 2006 2007 528i N52K engine 2008 2010 535i N54 twin turbo engine 2008

2010 545i N62 V8 engine 2004 2005 550i N62 TU V8 engine 2006 2010 *Mini Service and Repair Manual* John S. Mead, 1996 *Mini Owners Workshop Manual* John Harold Haynes, 2012-10-01 This title is a DIY workshop manual for Mini owners The book features maintenance and repair procedures for Mini vehicles Bmw Bmw Car Club Of America, Bentley Publishers, 2001-10-01 For 30 years informed BMW owners have relied on Roundel the magazine of the BMW Car Club of America to bring them fascinating articles news technical hints and opinions and humor from the membership Now working with the BMW CCA Bentley has made this unique collection of insider knowledge available on line and searchable *The Complete Official MGB: 1962--1974* British Leyland Motors, Bentley Publishers, 1975-01-01 More than any other model the MGB made British sports cars the popular institution they have become in the United States Demand for restored cars has been so great that British Motor Heritage has started producing body shells for the early B This definitive manual for the MGB Tourer convertible the MGB GT is indispensable for restoration work as well as regular maintenance no other single manual offers owners mechanics such comprehensive information In addition to the Driver s Handbook carefully edited Official Workshop Manual we included the Emissions Control Supplement Special Tuning Manual When new the MGB was a favorite on race tracks has become a highly desirable vintage racer Tuning information in this manual details competition high performance modifications with factory part numbers horsepower ratings for each modification stage as well as directions for uprating the chassis suspension brake system for the demands of the track or sporting street use Mga Twin Cam 1600 Twin Cam Workshop Manual 58-60 British Motor Corporation, British Motor Corporation Ltd, 1994-07-01 Bentley Publishers is the exclusive factory authorized publisher of MG Austin Healey Triumph and Jaguar Service and Repair Manuals in the United States and Canada Each Official Workshop Manual includes the Driver s Handbook and incorporates additional factory procedures and specifications that became available following the publication of the original factory information There is also a substantial amount of supporting information compiled by Bentley Automotive Engineers in conjunction with the British Leyland training organization This includes emission control and air conditioning supplements as well as high performance special tuning manuals with competition parts lists when available **Owners Workshop Manual for Mini** Martynn Randall, **Mini** British Leyland Motor Corporation of Australia Ltd. Austin-Morris Division, 1971 *Mini Autobook* Kenneth Ball, 1968 **Mini Cooper, 1961-70 Autobook** Kenneth Ball, 1970-01-01 *Mini, 1959-69, Autobook* Kenneth Ball, 1970 *Mini Owner's Workshop Manual, 1959 to Date* John Harold Haynes, 19?? *Mini owners workshop manual*, 1978 **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

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