

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.



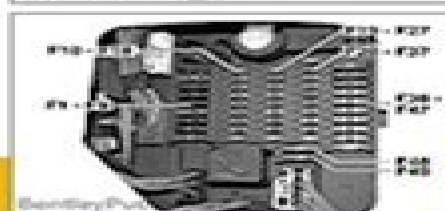
Step-by-step instructions for resetting OCS service items, 60,000 Maintenance



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, HP 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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R56 Min Service Manual

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R56 Min Service 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 *New Mini* Martyn Collins, Peter Collins, 2012 Having this book in your pocket is just like having a real marque expert by your side Benefit from the author s years of Mini ownership learn how to spot a bad car quickly and how to assess a promising one like a professional Get the right car at the right price

Mini Service and Repair Manual Haynes Publishing, Martyn Randall, 2014-12 Including step by step instructions for carrying out servicing and maintenance work this book includes hints tips and valuable short cuts that can help make car maintenance easier Popular Photography , 1996-11 **Chilton's Mini 2002-11 Repair Manual** Martyn 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 Recent Library Additions , 1988 Popular Photography , 1994-02 **Popular Photography** , 1999-01 **Popular Photography** , 1995-05 Owners Workshop Manual for the Mini Martyn Randall, 2014 **Popular Photography** , 1992-10 **Popular Photography** , 1994-09 **The Austin Mini and Mini Cooper Workshop Manual (ADO15)**. British Motor Corporation Service, British Motor Corporation. BMC Service Division, 1962 Mini Service and Repair Manual John S. Mead, 1996 **Entertainment Design** , 1999 *The Royal Television Society Journal* , 1972 *Bibliography of Agriculture* , 1991-12

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