

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 technician testing fuel pump on the Cooper S engine.



Step-by-step instructions for resetting CBS service items, 620 Maintenance



Detailed engine service, including VANOS camshaft timing adjustment, N17 Camshaft Timing Chain



High pressure fuel system service on turbo engine, including replacing HPF 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 (HKS / HKX), including component replacement.
- Body adjustments and repairs for sunroof and convertibles, 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.

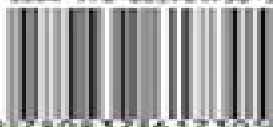
Models and engines covered

- | | |
|------------------|--|
| 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 Agtronic, Asin (GU6F21/WA) |

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Cooper R55 Service Manual

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Cooper R55 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 **Library of Congress Catalog** Library of Congress, 1955 A cumulative list of works represented by Library of Congress printed cards *Library of Congress Catalogs* Library of Congress, 1960 **Autocar**, 1997 Moody's International Manual, 1994 **Subject Catalog** University of California, Berkeley. Institute of Governmental Studies, 1970 *Drum*, 2009 *New York City Directory*, 1916 **Subject Catalog of the Institute of Governmental Studies Library, University of California, Berkeley** University of California, Berkeley. Institute of Governmental Studies. Library, 1971 *Bibliography of Agriculture with Subject Index*, 1978-10 *International Books in Print, 1995* Barbara Hopkinson, [Anonymus AC01401231], 1995 *Monthly Checklist of State Publications* Library of Congress. Exchange and Gift Division, 1976 June and Dec issues contain listings of periodicals **South African national bibliography**, 1995 **American Book Publishing Record Cumulative, 1876-1949** R.R. Bowker Company. Department of Bibliography, 1980 Whitaker's Cumulative Book List, 1961 **Bibliography of Agriculture**, 1978 Whitaker's Five-year Cumulative Book List, 1958 *American Book Publishing Record*, 1980 *Bibliographic Guide to Business and Economics* New York Public Library. Research Libraries, 1984

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