

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 this or their 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 control on the Cooper S engine.



Close-up of the instrument cluster for reading the CCS service items: CCS Maintenance.



Detailed engine service, including MINOT cam-shaft timing adjustment, N12 Camshaft Timing Chain.



High-pressure fuel system service on turbo engines, including heating, fuel lines, fuel tank and fuel pump.



Comprehensive fuel, cooling and exhaust 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 cam-shaft timing (VANOS) setup and adjustment, including 'Valvetronic' service on N12, N16, and N18 engines.
- Driveability 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 (SHCS / IHKA), including component replacement.
- Body adjustments and repairs for sunroof and convertible, including resetting of the roll-over 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 G556-556NG for Cooper, G556-556G for Cooper S

Automatic: 6-speed with Activtronic, Auto (G6AF21W0A)



Cooper R55 Service Manual

Library of Congress

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

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Bibliographic Guide to Business and Economics New York Public Library. Research Libraries,1984

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