

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 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.

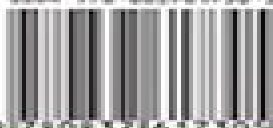
Models and engines covered

- | | |
|------------------|--|
| 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, Aisin (GU6F21/WA) |

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Mini One R56 Repair Service Manual

M Lipman



Mini One R56 Repair Service Manual:

Unveiling the Power of Verbal Artistry: An Psychological Sojourn through **Mini One R56 Repair Service Manual**

In a world inundated with displays and the cacophony of fast conversation, the profound energy and mental resonance of verbal beauty usually disappear into obscurity, eclipsed by the continuous onslaught of noise and distractions. However, set within the lyrical pages of **Mini One R56 Repair Service Manual**, a charming function of literary splendor that pulses with raw emotions, lies an remarkable journey waiting to be embarked upon. Published by a virtuoso wordsmith, that mesmerizing opus manuals visitors on an emotional odyssey, delicately revealing the latent possible and profound affect stuck within the elaborate internet of language. Within the heart-wrenching expanse with this evocative evaluation, we shall embark upon an introspective exploration of the book is main subjects, dissect its captivating publishing style, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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