

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.



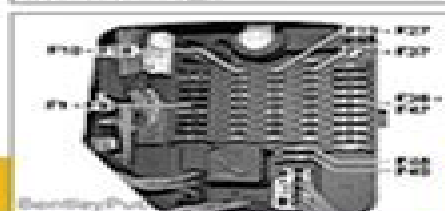
Step-by-step instructions for resetting iCS service items, 600 Maintenance



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



High-pressure fuel system service on turbo engine, including replacing in-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 / IHKA), 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.

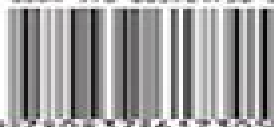
Models and engines covered

- | | |
|------------------|--|
| 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 Cooper S R55 Repair Service Manual

Lei Huang



Mini Cooper S R55 Repair Service Manual:

Mini Cooper S R55 Repair Service Manual Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has are more evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **Mini Cooper S R55 Repair Service Manual**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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Table of Contents Mini Cooper S R55 Repair Service Manual

1. Understanding the eBook Mini Cooper S R55 Repair Service Manual
 - The Rise of Digital Reading Mini Cooper S R55 Repair Service Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Mini Cooper S R55 Repair Service Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mini Cooper S R55 Repair Service Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mini Cooper S R55 Repair Service Manual
 - Personalized Recommendations
 - Mini Cooper S R55 Repair Service Manual User Reviews and Ratings

- Mini Cooper S R55 Repair Service Manual and Bestseller Lists
- 5. Accessing Mini Cooper S R55 Repair Service Manual Free and Paid eBooks
 - Mini Cooper S R55 Repair Service Manual Public Domain eBooks
 - Mini Cooper S R55 Repair Service Manual eBook Subscription Services
 - Mini Cooper S R55 Repair Service Manual Budget-Friendly Options
- 6. Navigating Mini Cooper S R55 Repair Service Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Mini Cooper S R55 Repair Service Manual Compatibility with Devices
 - Mini Cooper S R55 Repair Service Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mini Cooper S R55 Repair Service Manual
 - Highlighting and Note-Taking Mini Cooper S R55 Repair Service Manual
 - Interactive Elements Mini Cooper S R55 Repair Service Manual
- 8. Staying Engaged with Mini Cooper S R55 Repair Service Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mini Cooper S R55 Repair Service Manual
- 9. Balancing eBooks and Physical Books Mini Cooper S R55 Repair Service Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mini Cooper S R55 Repair Service Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mini Cooper S R55 Repair Service Manual
 - Setting Reading Goals Mini Cooper S R55 Repair Service Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mini Cooper S R55 Repair Service Manual
 - Fact-Checking eBook Content of Mini Cooper S R55 Repair Service Manual
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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