

# 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 item, 620 Maintenance



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



High pressure fuel system service on turbo engine, including replacing HP fuel pump, 550 Fuel Tank and Fuel Pump



Comprehensive fuse, relay, and electrical component locations, ECS 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

- |                  |  |
|------------------|--|
| <b>Cooper:</b>   | 1.6 liter normally-aspirated engine<br>(engine codes N12, N16) |
| <b>Cooper S:</b> | 1.6 liter turbocharged engine<br>(engine codes N14, N18)       |

#### Transmissions covered

- |                   |   |
|-------------------|---|
| <b>Manual:</b>    | 6-speed Getrag (GS6-55BG for Cooper, GS6-53BG for Cooper S) |
| <b>Automatic:</b> | 6-speed with Agtronic, Asin (GU6F21WA)                      |



# Mini One R56 Repair Service Manual

**Martynn Randall**



## **Mini One R56 Repair Service Manual:**

*MINI Cooper Service Manual*, 2004 If you own one of these fabulous cars then you know how fun it is to drive And you probably know that your MINI is packed with some of BMW s latest automotive technology But if you want to maintain and repair your car yourself or just want to understand what s going on under the bonnet you ll be wanting the MINI Cooper Cooper S 2002 2004 Service Manual by Bentley Publishers This is the only comprehensive single source of service information and specifications available for MINI models from 2002 2004 The aim throughout this manual has been simplicity clarity and completeness achieved through practical explanations step by step procedures and accurate specifications Whether you re a professional technician or a do it yourself MINI owner this manual will help you understand care for and repair your car Bentley Publishers new MINI service and repair manual is based on factory information but is heavily supplemented by hands on experience and illustrations The service manual editorial team has disassembled and photographed several MINI models for this project in the Bentley Service Information Research Center *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 Service and Repair Manual** Haynes Publishing, Martynn 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*, 1994-09 **Mini Petrol and Diesel** Martynn Randall, 2013 With a Haynes manual you can do it yourselfa from simple maintenance to basic repairs Haynes writes every book based on a complete teardown of the motorcycle We learn the best ways to do a job and that makes it quicker easier and cheaper for you Our books have clear instructions and hundreds of photographs that show each step Whether you re a beginner or a pro you can save big with Haynes Step by step procedures Easy to follow photos Complete troubleshooting section Valuable short cuts Color spark plug diagnosis Complete coverage for your Honda XR250L 1991 thru 1996 XR250R 1986 thru 2004 and XR400R 1996 thru 2004 Routine Maintenance Tune up procedures Engine clutch and transmission repair Cooling system Fuel and exhaust Emissions control Ignition and electrical systems Brakes wheels and tires Steering suspension and final drive Frame and bodywork Wiring diagrams **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      **Popular Photography** ,1994

**Mini Petrol Service and Repair Manual** Martynn Randall,2009 Mini One Cooper Cooper S Hatchback including option packs Does NOT cover models with CVT or Steptronic automatic transmission or features specific to Convertible or John Cooper Works conversions Does NOT cover new Mk II MINI introduced August 2006 Petrol 1 6 litre 1598cc including supercharged      *Mini Service and Repair Manual* John S. Mead,1996      *Mini Owner's Workshop Manual* John Harold Haynes,1971      *Chilton's Mini 2002-11 Repair Manual* Martynn 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      **The Ultimate Mini Restoration Manual** Iain Ayre,2015 The Ultimate Mini Restoration Manual gives you all the info you need to evaluate your skills and attitude get your garage sorted choose the right Mini weld up the rust paint it overhaul the engine sort the rest of the mechanicals retrim then make the car faster smoother sharper and a lot more fun      **Mini Coope** Bentley Publishers,2009 Diagnostic tools and techniques Component descriptions and operation Circuit wiring schematics Pinout charts waveforms and nominal values Bus system operation and testing OBD II P code DTC lookup This MINI Cooper Diagnosis Without Guesswork handbook is a diagnostic manual written for the professional technician and the MINI enthusiast Not intended to be a repair manual this handbook is your comprehensive source for engine management and on board system diagnosis      **Haynes Mini 1969 to 2001 Up to X Registration** John S Mead,2015-02-01 Haynes offers the best coverage for cars trucks vans SUVs and motorcycles on the market today Each manual contains easy to follow step by step instructions linked to hundreds of photographs and illustrations Included in every manual troubleshooting section to help identify specific problems tips that give valuable short cuts to make the job easier and eliminate the need for special tools notes cautions and warnings for the home mechanic color spark plug diagnosis and an easy to use index This repair manual covers Mini including Mini Saloon Estate Van and Pick up plus special and limited editions 848cc 998cc 1272cc Mini Clubman Saloon and Estate models 998cc 1098cc and Mini Cooper S Mk III 1275 GT 1 3i and Mini Cooper 1275cc 1969 to 2001 It provides repair service and maintenance information for all models      *Step-by-step Service Guide to the Mini & Mini Cooper* Lindsay Porter,1994

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## **Table of Contents Mini One R56 Repair Service Manual**

1. Understanding the eBook Mini One R56 Repair Service Manual
  - The Rise of Digital Reading Mini One R56 Repair Service Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Mini One R56 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 One R56 Repair Service Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mini One R56 Repair Service Manual
  - Personalized Recommendations
  - Mini One R56 Repair Service Manual User Reviews and Ratings
  - Mini One R56 Repair Service Manual and Bestseller Lists
5. Accessing Mini One R56 Repair Service Manual Free and Paid eBooks
  - Mini One R56 Repair Service Manual Public Domain eBooks

- Mini One R56 Repair Service Manual eBook Subscription Services
- Mini One R56 Repair Service Manual Budget-Friendly Options
- 6. Navigating Mini One R56 Repair Service Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Mini One R56 Repair Service Manual Compatibility with Devices
  - Mini One R56 Repair Service Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mini One R56 Repair Service Manual
  - Highlighting and Note-Taking Mini One R56 Repair Service Manual
  - Interactive Elements Mini One R56 Repair Service Manual
- 8. Staying Engaged with Mini One R56 Repair Service Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mini One R56 Repair Service Manual
- 9. Balancing eBooks and Physical Books Mini One R56 Repair Service Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mini One R56 Repair Service Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mini One R56 Repair Service Manual
  - Setting Reading Goals Mini One R56 Repair Service Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mini One R56 Repair Service Manual
  - Fact-Checking eBook Content of Mini One R56 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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