

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.



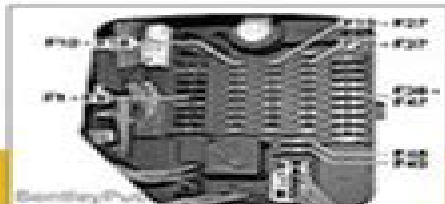
Step-by-step instructions for resetting CO2 service items, E20 Maintenance



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



High pressure fuel system service on turbo engine, including replacing in-fuel pump, E40 Fuel Tank and Fuel Pump



Comprehensive fuse, relay, and electrical component locations, ECI 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 / HKCA), 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 SAE 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.

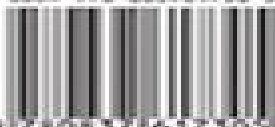
Models and engines covered

- 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 IG56-55BG for Cooper, G56-53BG for Cooper S)
- Automatic:** 6-speed with Agitronic, Aisin (GA6F21WA)

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Mini Cooper R57 Service Manual

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Mini Cooper R57 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 **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 **Mini owners workshop manual** ,1978 *Mini Cooper 1961-72 Autobook* Kenneth Ball,1972 The Austin Mini and Mini Cooper Workshop Manual (ADO15). British Motor Corporation Service,British Motor Corporation. BMC Service Division,1962 *Mini Cooper, 1961-70 Autobook* Kenneth Ball,1970-01-01 **Mini Cooper Service Manual, 2002-2004** British Leyland Motors,2003-01-01 The Austin Mini and Mini Cooper Workshop Manual British Motor Corporation,1962 *Workshop Manual for Morris-Austin Mini Including Mini Cooper, Cooper S, 1961 - Onwards* ,1964 Mini Autobook Kenneth Ball,1968 **Workshop Manual for Morris-Austin Mini** ,1964 Mini Workshop Manual ,1976 *Mini Saloon, Countryman and Traveller* ,1970 **Mini, 1959-69, Autobook** Kenneth Ball,1970 *The Complete Morris/Austin Mini Workshop Manual* Scientific Publications,1968 **Mini Owners Workshop Manual** John Harold Haynes,2012-10-01 This title is a DIY workshop manual for Mini owners The book features maintenance and repair procedures for Mini vehicles Mini Service and Repair Manual John S. Mead,1996 *BMC Autobook Seven* Kenneth Ball,1968 **Mini Workshop**

Manual British Leyland (Austin-Morris) Limited. Technical Publications Department,1972

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