

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 writers testing fuel pump on the Cooper S engine.



Step-by-step instructions for resetting CBS service items, ECU 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.
- Systems 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 IG56-55BG for Cooper,
GS6-53BG for Cooper S |
| Automatic: | 6-speed with Apfronic, Aisin (GA6F21WA) |



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R57 Cooper Convertible Cooper S Convertible 2009 through 2011 Includes John Cooper Works JCW models Does not include Countryman models or convertible top information **American Book Publishing Record** ,1980 Monographic Series Library of Congress, **MINI Cooper Service Manual** Bentley Publishers,2010-08-01 The MINI Cooper Service Manual 2002-2006 is a comprehensive source of service information and specifications for MINI Cooper models from 2002 to 2006 The manual also includes coverage of the Cooper S models 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 Models and engines covered Cooper 1.6 liter normally aspirated engine Cooper S 1.6 liter supercharged engine Transmissions covered Cooper Manual 5 speed transmission Midlands Getrag Cooper Automatic continuously variable transmission CVT Cooper S Manual 6 speed transmission Getrag Cooper S Automatic with Agitronic Aisin *American Book Publishing Record Cumulative, 1950-1977* R.R. Bowker Company. Department of Bibliography,1978 *Bibliographic Guide to Technology* New York Public Library. Research Libraries,1989 **National Union Catalog** ,1980 Includes entries for maps and atlases *Library of Congress Catalogs* Library of Congress, *The Publishers Weekly* ,1974 **Ecol** Environmental Conservation Library of Minnesota,1974 Mini Cooper Service Manual 2002-2006 Bentley Publishers,2007 The MINI Cooper Service Manual 2002-2006 is a comprehensive source of service information and specifications for MINI Cooper models from 2002 to 2006 This manual supersedes our previous 2002-2004 manual with two more model years of coverage as well as new repair information for the Convertible model The manual also includes coverage of the Cooper S models 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 will make it possible to discuss repairs more intelligently with a professional technician *'American Book Publishing Record' Cumulative* R. R. Bowker LLC,1978 Mini 2002 thru 2013 Haynes Repair Manual Editors of Haynes Manuals,2018-10-23 With a Haynes manual you can do it yourself from simple maintenance to basic repairs Haynes writes every book based on a complete teardown of the vehicle where we learn the best ways to do a job and that makes it quicker easier and cheaper for you Haynes books have clear instructions and hundreds of photographs that show each step Whether you are a beginner or a pro you can save big with a Haynes manual This manual features complete coverage for your Mini covering Routine maintenance Tune up procedures Engine repair Cooling and heating Air conditioning Fuel and exhaust Emissions control Ignition Brakes Suspension and steering Electrical systems and Wiring diagrams This manual covers Mini Cooper Cooper S Clubman and Clubman S built between 2002 and 2013 Mini Cooper, 1961-70 Autobook Kenneth Ball,1970-01-01 Mini

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web the first two equations have been balanced for you alpha particle α 2 4 beta particle β gamma ray γ proton p neutron n 0 positron β^+ 0 1 30 1 65 1 2 63 2 15 0 30 0 65 30 9 29 2 2 12 6 15 32 30

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web we can write a balanced nuclear equation for this reaction as let s do a practice example identify the product x by writing a balanced nuclear equation $^{137}_{55}\text{Cs} \rightarrow ^{137}_{56}\text{Ba} + x$ because the mass number is the same on both sides of the equation x must have a

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10 o 2 co 2 h 2 o nh 3 cuo cu n 2 h 2 o q10 5 5 balance the following equations fe s cl 2 g fecl 3 g c 4 h 10 o o 2 co 2 h 2 o as naoh na 3 aso 3 h

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web identify the missing particle in the following nuclear reaction $1\ 0\ n\ 235\ 92\ u\ 2\ 1\ 0\ n\ 137\ 52\ te\ 4\ 2\ he\ 97\ 38\ sr\ 96\ 40\ zr\ 97\ 40\ zr$

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web answer 4 correct in the reactants and products must be the same part b what is the value of in the following nuclear reaction $6\ 5i\ 9$ express your answer as an integer hint 1 how to approach the problem use rule 2 the total of the subscripts atomic numbers mathematically this can be written as answer

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will be used to complete the equation

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