

# 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  
Without Technical Knowledge on the  
Cooper Engine.



Close-up of the  
Instrument Cluster for Resetting  
COOL Service Item, 1010 Maintenance.



Close-up engine service,  
including MINOT cam-  
shaft timing adjustment  
1-2 Camshaft Timing  
ICM.



High-pressure fuel  
system component with  
various ports, including  
return port, fuel pump  
1010 Fuel Tank and Fuel  
Piping.



Comprehensive fuse,  
circuit, and electronic  
component locations.  
ECU (Electrical  
Component Locations)

### Features

- Procedures for everything from changing the ATF to replacing a dirty cabin microfilter and resetting the CDS (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.
- Driveability 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 (HACS / HKA), including component replacement.
- Body adjustments and repairs for sunroof and convertible, including resetting of the roll-over 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:** 5-speed Getrag 50565/50571 for Cooper,  
55565/55571 for Cooper S

**Automatic:** 6-speed with Activtronic, Auto (G6AF21WKA)



# Mini Cooper Service Manual 2007 R56

**Editors of Haynes Manuals**

## **Mini Cooper Service Manual 2007 R56:**

**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     *Contract Administration Manual* United States. Defense Logistics Agency,1990     **Contract Administration Manual for Contract Administration Services** United States.

Defense Logistics Agency,1982     **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

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## **Mini Cooper Service Manual 2007 R56 Introduction**

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