

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 instruction for resetting CO2 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 HP Fuel Pump, 116 Fuel Tank and Fuel Pump



Comprehensive fuse, relay, and electrical component locations, ECU Electrical Component Locations

Features

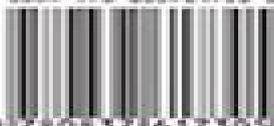
- Procedures for everything from changing the ATF to replacing a dirty cabin microfilter and resetting the CBS (condition based service) system. This manual tells you what to do and how and when to do it.
- Engine and cylinder head service with variable camshaft timing (VANOS) setup and adjustment, including 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 (HKX / HKXA), 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

- 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)



Mini Cooper R55 R56 R57 Service Manual

O García



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dec 1 2017 this specification covers dimensions tolerances and marking requirements for api threads and the gauges that control the acceptance criteria for the threads thread element gauges instruments and requirements for the inspection of threads for line pipe round thread casing round thread tubing and buttress casing connections are included

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btc 215 90 263 52 15 82 8 5 8 stc 244 48 196 85 16 23 8 5 8 ltc 244 48 254 00 21 67 8 5 8 btc 244 48 269 88 20 86 9 5 8 stc 269 88 196 85 18 03 9 5 8 ltc 269 88 266 70 25 45 9 5 8 btc 269 88 269 88 23 16 10 3 4 stc 298 45 203 20 20 78 10 3 4 btc 298 45 269 88 25 74 11 3 4 stc 323 85 203 20 22 64 11 3 4

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the btc thread has higher joint and bending strengths than ltc or stc as a result this thread is often used in deeper wells where higher hook loads are experienced thread compound must also be used to obtain a seal with btc btc is also run in horizontal wells where doglegs can cause high bending loads on larger casings

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1 to avoid cross threading stab pipe in a smooth controlled fashion ensuring the pipe is vertical when doing so continue to support and stabilise the pipe throughout the stabbing and make up operation 2 upon commencement of initial rotation use low rpm 5 rpm or below in order to ensure the pipe has not cross threaded during stabbing 3

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btc has a square thread with a flat root and crest a runout design and five buttress threads per inch each thread type is suited for a specific well condition stc is a good choice for shorter length casing applications that do not involve high axial loads or bending

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the two steps are identified as 1 the 75 percent shoulder width method 2 the mismatched outside diameter method the two methods are fully described in annex i 6 2 3 other considerations table 3 table a 3 have bevel diameters that cover a range from a suggested minimum od to a maximum od the tables also contain a reference id

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api compatibility the connection s buttress thread profile makes it fully compatible with standard api buttress connections by being api compatible in both pin and box operators can use standard api accessories and draw on a wide range of threading and repair shops providing flexibility and efficiency

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tnmc 55 er 4 api 383 2 8 7 94 nc56 nc77 v 0 050 4 27 5 8 2 tnmc 55 er 4 api 502 3

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may 17 2005 buttruss thread two types of buttruss thread profiles used in machinery buttruss thread forms also known as sawtooth thread forms 1 or breech lock thread forms 2 are screw thread profiles with an asymmetric shape having one

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casing pipe dimensions and weight chart for api round thread and buttruss thread lables outside diameter nominal linear mass t c wall thickness inside diameter drift diameter calculated mass c plain end mass gain or loss due to end finishing lb round thread buttruss thread 1 2 00 d in lb ft t in d in in lb ft short long rc scc

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inspection inspection criteria for all api connections is as outlined in api rp 5a5 ensure the complete thread area has no tears gouges or raised metal black crested threads within the complete thread area must not exceed 25 of the circumference of two 2 threads complete thread length is indicated in api rp 5b1

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btc buttruss threading this thread is designed to improve axial tensile or axial compressive load capacity and to provide leakage resistance ltc stc and btc are the same in appearance how to distinguish them that depends the outside diameter and application what s the use of ltc stc and btc

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api couplings and threads must comply with c 32 and c 33 or e 32 and e 33 below are two common api coupling dimensions btc for casing and eue for tubing api buttruss casing couplings dimensions btc casing coupling api external upset tubing coupling dimensions eue tubing coupling other requirements in api 5ct standard 1 appearance quality

specification for threading gauging and thread inspection of - May 03 2022

pipe threads api specification 5b fifteenth edition april 2008 effective date october 1 2008 specification for threading gauging and thread inspection of casing tubing and line pipe threads upstream segment api specification 5b fifteenth edition april 2008