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## Specifications: 2007 MINI R56 Cooper and Cooper S

Body		MINI Cooper	MINI Cooper S
No of doors/seats		3/4	3/4
Length	mm	3,699	3,714
Width	mm	1,683	1,683
Height (unladen)	mm	1,407	1,407
Wheelbase	mm	2,467	2,467
Track - front	mm	1,459	1,453
Track - rear	mm	1,467	1,461
Turning circle	m	10.7	10.7
Fuel tank capacity	approx. ltr	40	50
Cooling system including heater	ltr	5.2	5.2
Engine oil	ltr	4.2	4.2
Transmission fluid incl final drive	ltr	Permanent filling	Permanent filling
Weight, unladen, according to DIN/EU <sup>1</sup>	kg	1,065/1,140	1,130/1,205
Max load according to DIN	kg	450	450
Max permissible weight to DIN	kg	1,515	1,580
Max permissible axle load front/rear	kg	855/740	885/755
Max permissible trailer load <sup>2</sup>			
braked (12%)/unbraked	kg	750/500	Not available
Max roof load	kg	75	75
Luggage compartment according to DIN	l	160–80	160–680
Air resistance	cX x A	0.33 x 1.97	0.36 x 1.97

<sup>1</sup>Weight of the car in road trim (DIN) plus 75 kg for driver and luggage.

<sup>2</sup>Deviations are possible under certain conditions.

Engine		MINI Cooper	MINI Cooper S
Configuration		I4	I4
Valves per cylinder		4	4
Capacity	cc	1,598	1,598
Bore/stroke	mm	77.0/85.8	77.0/85.8
Compression ratio	:1	11	10.5
Fuel	RON	from 91	from 91
Max output	kW	88	128
At	rpm	6,000	5,500
Max torque	Nm	160	240 (260with Overboost)
At	rpm	4,250	1,600–5,000 (1,700–4,500 with Overboost)
Electrical system			
Battery/installation	Ah/–	46/rear	46/rear
Alternator	A/W	120/1,680	120/1,680

Suspension	MINI Cooper	MINI Cooper S
Front suspension	Single-joint MacPherson spring strut axle with anti-dive	
Rear suspension	Longitudinal struts with centrally-pivoted control arms, Z-axle	

Brakes and tyres	MINI Cooper	MINI Cooper S
Brake, front	Disc, vented	Disc, vented
Diameter	mm 280	294
Brake, rear	Disc brake	Disc brake
Diameter	mm 259	259
Tyres	175/65 R15 H	195/55 R16 87V RSC
Wheels	5,5J x 15 Alloy	6,5J x 16 Alloy

Stability and steering	MINI Cooper	MINI Cooper S
Driving stability systems	Hydraulic two-circuit brake system with anti-lock brakes (ABS), Electronic Brake Force Distribution (EBD), Cornering Brake Control (CBC) and Brake Assist. ASC+T traction control. Optional Dynamic Stability Control (DSC) with Hill Start Assist.	
	Mechanical handbrake acting on the rear wheels.	
Steering	Electric Power Assisted Steering (EPAS)	

Transmissions	MINI Cooper	MINI Cooper S
Overall transmission ratio	:1 14.1	14.1
Type of transmission	six gear manual	six gear manual
Gear ratios		
1st	:1 3.214	3.308
2nd	:1 1.792	2.13
3rd	:1 1.194	1.483
4th	:1 0.914	1.139
5th	:1 0.784	0.949
6th	:1 0,683	0,816
Reverse	:1 3.143	3.231
Final drive ratio	:1 4.353	3.647

Performance	MINI Cooper	MINI Cooper S
Power-to-weight ratio, DIN	kg/kW 12.1	8.8
Output per litre	kW/ltr 55.1	80.1
Acceleration 0–100 km/h	s 9.1	7.1
0–1,000 m	s 30.2	27.5
in 4th/5th/6th gear 80-120 km/h	s 9.4/12.1/14.3	5.5/7.0/8.0
Top speed	km/h 203	225

Fuel consumption (EU cycle)	MINI Cooper	MINI Cooper S
Urban	ltr/100 km 7.8	8.9
Extra-urban	ltr/100 km 4.6	5.7
Combined	ltr/100 km 5.8	6.9
CO2	g/km 139	164

Miscellaneous		MINI Cooper	MINI Cooper S
Emission category	–	EU4	EU4
Ground clearance	mm	139	130

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