

Technical Data - US. MINI Roadster (R59).

		CooperS Roadster	CooperS Roadster	John Cooper Works Roadster	Cooper Roadster	Cooper Roadster
Engine type		N18B16M0	N18B16M0	N14B16T0	N16B16M0	N16B16M0
Transmission type		automatic transmission 6	manual transmission 6	manual transmission 6	automatic transmission 6	manual transmission 6
No of Doors / Seats	/	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2
Veh. length	mm / inch	3734 / 147	3734 / 147	3758 / 148	3728 / 146.8	3728 / 146.8
Veh. width	mm / inch	1683 / 66.3	1683 / 66.3	1683 / 66.3	1683 / 66.3	1683 / 66.3
Veh. height	mm / inch	1390 / 54.7	1390 / 54.7	1391 / 54.8	1384 / 54.5	1384 / 54.5
Wheelbase	mm / inch	2467 / 97.1	2467 / 97.1	2467 / 97.1	2467 / 97.1	2467 / 97.1
Turning circle	m / ft	10.7 / 35.1	10.7 / 35.1	10.7 / 35.1	10.7 / 35.1	10.7 / 35.1
Ground clearance	mm / inch	134 / 5.3	134 / 5.3	134 / 5.3	134 / 5.3	134 / 5.3
Shoulder width front	mm / inch	1278 / 50.3	1278 / 50.3	1278 / 50.3	1278 / 50.3	1278 / 50.3
Shoulder width rear	mm / inch	/	/	/	/	/
Legroom front	mm / inch	1060 / 41.7	1060 / 41.7	1060 / 41.7	1060 / 41.7	1060 / 41.7
Legroom rear	mm / inch	/	/	/	/	/
Max. headroom front	mm / inch	1005 / 39.6	1005 / 39.6	1005 / 39.6	1005 / 39.6	1005 / 39.6
Max. headroom rear	mm / inch	/	/	/	/	/
Luggage comp. capacity (official)	m ³ / ft ³	0,240 / 8.5	0,240 / 8.5	0,240 / 8.5	0,240 / 8.5	0,240 / 8.5
Luggage vol. (SAE) - only for homologation	ft ³	6	6	6	6	6
Fuel tank capacity	liter / gal	50 / 13.2	50 / 13.2	50 / 13.2	50 / 13.2	50 / 13.2
Curb weight (US)	Kg / lbs	1270 / 2800	1245 / 2745	1255 / 2767	1230 / 2712	1195 / 2635
Weight distribution (empty car)	%	37	37.8	38.2	39	40.2
Gross veh. weight	Kg / lbs	1530 / 3373	1510 / 3329	1510 / 3329	1505 / 3318	1470 / 3241
Payload	Kg / lbs	230 / 507	230 / 507	230 / 507	230 / 507	230 / 507
Axle load limit front	Kg / lbs	885 / 1951	860 / 1896	860 / 1896	845 / 1863	810 / 1786
Axle load limit rear	Kg / lbs	665 / 1466	665 / 1466	675 / 1488	675 / 1488	675 / 1488
Roof load	Kg / lbs	/	/	/	/	/
Engine type / Cylinders / Valves p.cyl.	in line / 4 / 4	in line / 4 / 4	in line / 4 / 4	in line / 4 / 4	in line / 4 / 4	in line / 4 / 4
Fuel management	MEVD 17.2.2	MEVD 17.2.2	MEVD 17.2.2	MED 17.2	MEV 17.2.2	MEV 17.2.2
Injection technique / Charging Type	DI2,VVT / TwinPower Turbo	DI2,VVT / TwinPower Turbo	DI2 / TwinPower Turbo	VVT / -	VVT / -	VVT / -
Displacement	cm ³ / inch	1598 / 98	1598 / 98	1598 / 98	1598 / 98	1598 / 98
Stroke	mm / inch	85.8 / 3.4	85.8 / 3.4	85.8 / 3.4	85.8 / 3.4	85.8 / 3.4
Bore	mm / inch	77 / 3	77 / 3	77 / 3	77 / 3	77 / 3
Engine power / at rpm	bHP / 1/min	181 / 5500	181 / 5500	208 / 6000	121 / 6000	121 / 6000
Engine torque / at rpm	ft lbs (Nm) / 1/min	177 (240) / 1600-5000	177 (240) / 1600-5000	192 (260) / 1850-5600	114 (160) / 4250	114 (160) / 4250
Overboost: 192 (260) / 1730-4500 1/min		Overboost: 192 (260) / 1730-4500 1/min	Overboost: 192 (260) / 1730-4500 1/min	Overboost: 207 (280) / 2000-5100 1/min		
Compression rate / Fuel type (recomm.)	:1 /	10.5 / ROZ91-98 (ROZ95)	10.5 / ROZ91-98 (ROZ95)	10 / ROZ91-98 (ROZ95)	11 / ROZ91-98 (ROZ95)	11 / ROZ91-98 (ROZ95)
Type of gearbox		AW 225K	G253 TU	G253 TU	AW 260K	G255
Gear ratios 1st gear / 2nd / 3rd / 4th	///	4.044 / 2.371 / 1.556 / 1.159	3.308 / 2.13 / 1.483 / 1.139	3.308 / 2.13 / 1.483 / 1.139	4.148 / 2.37 / 1.566 / 1.155	3.214 / 1.792 / 1.194 / 0.914
5th / Gear ratio VI / 7th / 8th	///	0.852 / 0.672 / 0 / 0	0.949 / 0.816 / 0 / 0	0.949 / 0.816 / 0 / 0	0.859 / 0.686 / 0 / 0	0.784 / 0.683 / 0 / 0
Reverse gear		3.193	3.231	3.231	3.394	3.143
Final drive		3.683	3.706	3.706	4.103	4.353
Steering type / Steering transmission, overall	/ :1	rack-and-pinion (EPS) / 14.1	rack-and-pinion (EPS) / 14.1	rack-and-pinion (EPS) / 14.1	rack-and-pinion (EPS) / 14.1	rack-and-pinion (EPS) / 14.1
Front brake // diameter	- // mm / inch	disc ventilated // /	disc ventilated // /	disc ventilated // /	disc ventilated // /	disc ventilated // /
Rear brake // diameter	- // mm / inch	disc // /	disc // /	disc // /	disc ventilated // /	disc // /
Cx // A	// m ² / ft ²	0.37 // 1.97 / 21.21	0.37 // 1.97 / 21.21	0.36 // 1.99 / 21.42	0.35 // 1.97 / 21.21	0.35 // 1.97 / 21.21
Air resistance	m ² / ft ²	0.73 / 7.85	0.73 / 7.85	0.72 / 7.71	0.69 / 7.42	0.69 / 7.42
Top speed	Km/h / mph	222 / 138	227 / 141	237 / 147	192 / 119	199 / 124
Top speed optional	Km/h / mph	/	/	/	/	/
Acceleration 0-60 mph	s	6.9	6.7	6.3	10	8.7
Acceleration 0-100Km/h	s	7.3	7.1	6.6	10.6	9.4
Acceleration 0-1000m	s	27.6	27.5	26.4	31.7	30.7
Fuel cons. city (official EPA)	mpg	26	27	25	27	27
Fuel cons. highway (official EPA)	mpg	34	35	33	35	35
Fuel cons. combined (official EPA)	mpg	29	30	28	30	30
Front tyres		195/55 R16 87V	195/55 R16 87V	205/45 R17 84W	195/55 R16 87V	195/55 R16 87V
Rear tyres		195/55 R16 87V	195/55 R16 87V	205/45 R17 84W	195/55 R16 87V	195/55 R16 87V
Front rims		6,5J x 16 LM	6,5J x 16 LM	7J x 17 LM	6,5J x 16 LM	6,5J x 16 LM
Rear rims		6,5J x 16 LM	6,5J x 16 LM	7J x 17 LM	6,5J x 16 LM	6,5J x 16 LM
Run flat tyres		yes	yes	yes	yes	yes
Track front	mm / inch	1453 / 57.2	1453 / 57.2	1453 / 57.2	1453 / 57.2	1453 / 57.2
Track rear	mm / inch	1461 / 57.5	1461 / 57.5	1461 / 57.5	1461 / 57.5	1461 / 57.5
Wheel offset front / rear	mm / mm	48 / 48	48 / 48	48 / 48	48 / 48	48 / 48
Cooling system incl. Heater / Engine oil (filling qantity) **	liter/quarts // l./q.	7.5/7.9 // 4.2/4.4	7.5/7.9 // 4.2/4.4	7.5/7.9 // 4.2/4.4	7.5/7.9 // 4.2/4.4	7.5/7.9 // 4.2/4.4
Transmission fluid		permanent	permanent	permanent	permanent	permanent
Battery / Battery position	Ah /	55 / engine compartement	55 / engine compartement	55 / engine compartement	55 / engine compartement	55 / engine compartement
Alternator	A / W	120 / 1680	120 / 1680	120 / 1680	120 / 1680	120 / 1680
		SY33	SY33	SY53	SY13	SY13