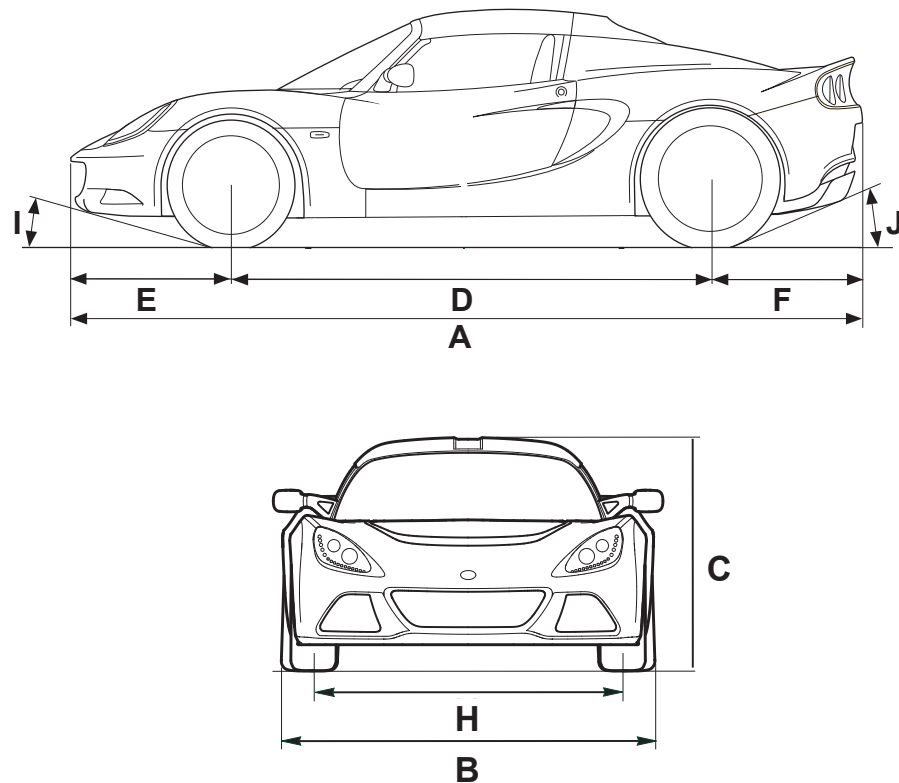


**ELISE & 4 CYLINDER EXIGE****TECHNICAL DATA - VEHICLE****SECTION TDQ**

Data	Page
Dimensions	2
Capacities/Approved Products.....	4
Wheels & Tyres	6
Front Suspension	8
Rear Suspension	9
Electrical	10
Transmission	11
Clutch	11
Brakes	12
Steering	12
Fuel Consumption	12



DIMENSIONS



Dimensions (In millimetres)	Model <i>Elise - pre 2011</i>	Model <i>Elise - 2011 on</i>	Model <i>Exige - pre 2012</i>	Model <i>Elise - Cup 250</i>
A. Overall Length	3785 mm	3824 mm	3797 mm	3824 mm
B. Overall width - excl. mirrors - incl. mirrors	1719 mm 1850 mm	1719 mm 1850 mm	1727 mm 1858 mm	1719 mm 1850 mm
C. Overall height (mid laden weight)	1117 mm	1117 mm	1159 mm	1117 mm
D. Wheelbase	2300 mm	2300 mm	2300 mm	2300 mm
E. Front overhang	783 mm	805 mm	805 mm	805 mm
F. Rear overhang	702 mm	719 mm	692 mm	719 mm
G. Ground clearance* (mid laden weight)	F/R 130 mm	F/R 140 mm	F/R 130 mm	F/R 140 mm
H. Track front	1457 mm	1457 mm	1457 mm	1457 mm
H. Track rear	1506 mm	1503 mm	1506 mm	1506 mm
I. Approach angle front	13.5°	12.5°	13.5°	12.5°
J. Approach angle rear	23.0°	23.0°	23.0°	23.0°

*See page 6 for specific USA ride height settings



Weights	Model	Model	Model	Model	Model	Model	Model	Model	Model	Model
Unladen weight*	111R/ Elise R	Elise S (1ZZ)	Elise (2ZZ/ USA)	Elise (1ZR)	Exige (2ZZ)	Exige (2ZZ/ USA)	Exige S (2ZZ)	Elise S (2ZR)	Elise 220 (2ZR)	Elise 240 (2ZR)
Total	860 kg	862 kg	912 kg	876 kg	875 kg	920 kg	935 kg	924 kg	924 kg	931 kg
Front	327 kg	328 kg	344 kg	342 kg	328 kg	350 kg	355 kg	350 kg	363 kg	361 kg
Rear	533 kg	534 kg	568 kg	534 kg	547 kg	570 kg	580 kg	574 kg	561 kg	570 kg
Maximum weight**	1166 kg	1126 kg	1162 kg	1141 kg	1166 kg	1166 kg	1199 kg	1199 kg	1174 kg	1214 kg
Total	443 kg	428 kg	441 kg	429 kg	443 kg	443 kg	456 kg	456 kg	447 kg	461 kg
Front	723 kg	698 kg	721 kg	712 kg	723 kg	723 kg	743 kg	743 kg	727 kg	753 kg
Rear										

*Includes full fuel tank

** Includes occupants & luggage..

Trailer towing
Not permissible



CAPACITIES/APPROVED PRODUCTS

Engine Oil: Elise/Exige 4-cylinder 2ZZ*/1ZZ Powertrains

Engine oil - dry - refill inc. filter: 4.4 litres (+ 3.5 litre if front mounted oil coolers are drained)
Approved product: Havoline fully synthetic
Viscosity: SAE 5W/40 (Fully synthetic)
Quality standard: API/ SL/CF; SJ/CF; ACEA A3
High/low dipstick mark difference: 1.5 litres

Engine Oil: Elise 1ZR/2ZR* Powertrains

Engine oil - dry - refill inc. filter: 4.8 litres *(+ 2.4 litre if single front mounted oil cooler is drained)
Type: Fully synthetic
Viscosity: SAE 0W/40
Quality standard: API SN: ACEA A3/B4
High/low dipstick mark difference: 1.0 litre

Supercharger Oil /All Supercharger Types all Vehicle Models Fitted with Supercharger

Quality standard: Ford Material Specification ESE-M99C115A
Approved product: Nye synthetic oil 605
Capacity: 80 ml (documented only for Elise 2ZR powertrain)

Transmission Oil: Elise/Exige 4-cylinder 2ZZ/1ZZ Powertrains

Capacity- 2ZZ: 2.3 litres
- 1ZZ: 1.9 litres
Approved product: Havoline Multigear S
Viscosity: SAE 75W/90
Quality standard: API GL-4 or GL-5

Transmission Oil: Elise 1ZR/2ZR Powertrains

Capacity - 2ZZ: 2.4 litres
Approved product: Petronas Tutela transmission Geartech 75W/85
Viscosity: PE-00138
Quality standard: API - GL-4

Engine Coolant: Elise/Exige 4-cylinder 2ZZ/1ZZ Powertrains

Capacity: 12.0 litres (Including 50% concentration of 6.0 litres of antifreeze)
Antifreeze type: Ethylene glycol with OAT corrosion inhibitors
Colour: Orange
Approved product: Havoline XLC

Engine Coolant: Elise 1ZR/2ZR Powertrains

Capacity: 12.0 litres (Including 50% concentration of 6.0 litres of antifreeze)
Antifreeze type: Ethylene glycol with OAT corrosion inhibitors
Colour: Red
Approved product: Petronas Paraflu Up
Lotus approval reference: PE-00140

Charge Cooler Coolant: 2ZR Powertrain Only

Capacity: 4.0 litres (Including 50% concentration of 2.0 litres of antifreeze)
Antifreeze type: As per engine coolant

**Brake & Clutch System: All Elise/Exige 4-Cylinder Powertrains**

Capacity: 2.0 litres
Approved product: Petronas Tutela Top 4 brake fluid
Lotus approval reference: PE-00139
Type: Non-mineral (non petroleum) hydraulic fluid
Specification: DOT 4

Air Conditioning Refrigerant: Elise/Exige 4-cylinder 2ZZ/1ZZ Powertrains

Refrigerant type: R134a
Capacity: 550g

GCC Elise/Exige 4-cylinder 2ZZ Powertrains fitted with additional auxillary AC Assembly

Refrigerant type: R134a
Capacity: 860g

Air Conditioning Refrigerant: Elise 1ZR/2ZR Powertrains

Refrigerant type: R134a
Capacity: 450g (previously 375g quoted)

Refrigerant type: R1234yf
Capacity: 600g

Windscreen Washer Bottle: All Elise/Exige 4-Cylinder Powertrains

Capacity: 2.0 litre
Fluid type: Petronas Tutela SC35 windscreen washer fluid
Concentration: Mixed as per the manufacturers recommendations

Fuel Tank: All Elise/Exige 4-Cylinder Powertrains

Model All Elise except Cup 250/260
Capacity: 43.5 litres
Elise Cup 250/260
Capacity: 48.0 litres

Luggage Compartment: All Elise/Exige 4-Cylinder Powertrains

Capacity: 50 kg / 112.0 litres



WHEELS & TYRES

Tyres

Type	- Elise std. - prior '06 - from '06	Bridgestone Potenza RE040 Yokohama Advan Neova AD07
	- USA Elise - from start of production	Yokohama Advan Neova AD07
	- Elise option, Exige	Yokohama A048
Size - front	- Elise std.	175/55 R16 80W
	- USA Elise	175/55 R16 80W
	- Elise option, Exige	195/50 R16 84W
- rear	- Elise std. - RE040	225/45 R17 90W
	- AD07	225/45 R17 91W
	- USA Elise - AD07	225/45 R17 91W
	- Elise opt. Exige - A048	225/45 R17 90W
	- Elise Cup 260 (17.5 model year)	Yokohama AD08R
- front		205/45 R16 - 83W
- rear		235/40 R17 - 90W
	- Elise Standard (Running change in '19 model year)	Yokohama V105
- front		195/50 R16 - 84W
- rear		225/45 R17 - 91W
	- Elise Cup 250 (Running change in '19 model year)	Yokohama A052
- front		195/50 R16 - 88W
- rear		225/45 R17 - 94W
Pressure (cold) - front		1.8 bar (26 lb/in ²)
- rear		2.0 bar (29 lb/in ²)

Winter Tyres

Type - front	Pirelli 210 Snowsport
- rear	Pirelli 240 Snowsport
Size - front	195/50 R16
- rear	215/45 R17
Pressure (cold) - front	1.8 bar (26 lb/in ²)
- rear	1.9 bar (27.5 lb/in ²)
Tyre studding	Not permitted
Tyre chains	Pewag Brenta-C XMR69 fitted only on rear winter tyres

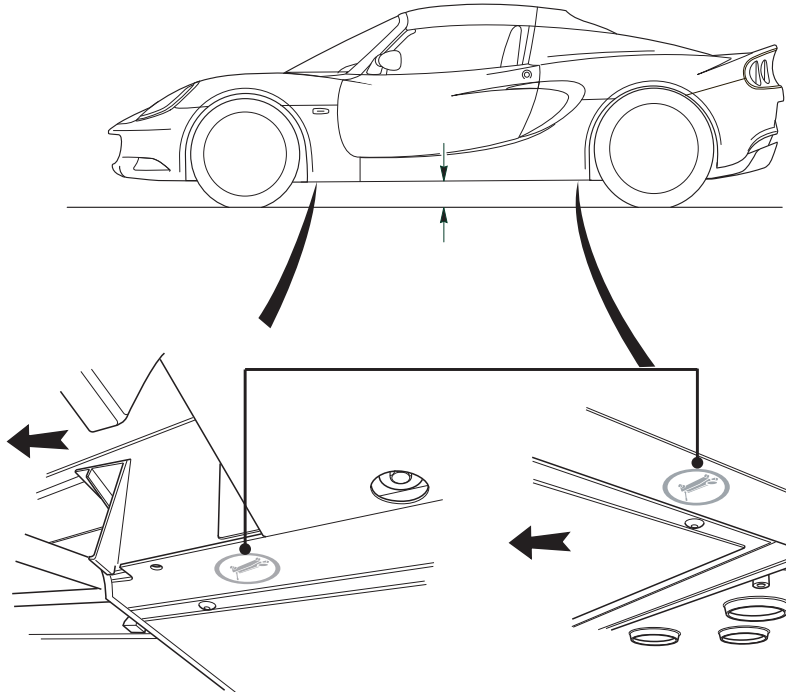
Wheels

Type	- Elise 111R/R/USA - Elise S - Elise 2011 - Exige std. - Elise/Exige option - Elise 2011 option	Cast alloy, 8 spoke Cast alloy, 6 spoke Cast alloy, 12 spoke Cast alloy, 8 Y-spoke Forged alloy, 7 split-spoke Forged alloy, 5 Y-spoke
Size - front	- Elise std.	5.5J x 16
	- Elise option	6.0J x 16 (forged + AD07)
	- Elise option, Exige	6.5J x 16 (forged + A048)
- rear		7.5J x 17
Wheel bolt torque		105 Nm (77 lbf.ft)



CHASSIS RIDE HEIGHT POINTS

Ride height to be measured from the ground up to the chassis siderails at the location of the 'Jacking' point labels



Ride Height Preparation for Geometry Inspection & Adjustment

Measurements should be taken from mid-laden ride height (Equivalent of 2 x 75 kg occupants + full fuel tank)
Set car to front and rear ride heights and tyre pressures listed below applicable to the model type before measuring and resetting the geometry:

Ride height - standard and sports suspension

All markets including USA from VIN 3013

- front 130 mm below front end of chassis siderail
- rear 130 mm below rear end of chassis siderail

USA only prior VIN 3013

- front 135 mm below front end of chassis siderail
- rear 135 mm below rear end of chassis siderail

Ride height - 'Super Sport' suspension option

Refer to Service Notes section DH.6 for further information

- front 120 mm below front end of chassis siderail
- rear 120 mm below rear end of chassis siderail

Ride height - Cup 260

'17.5 model year onwards fitted with Nitron 1-way adjustable dampers

- front 123 mm below front end of chassis siderail
- rear 124 mm below rear end of chassis siderail

Note: Also ensure that genuine Lotus road wheels are fitted suitable to the tyre with sizes and suspension options fitted.

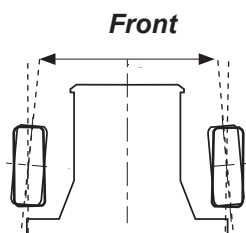
- Front tyre pressures 1.8 bar (26 lb/in²)
- Rear tyre pressures 2.0 bar (29 lb/in²)



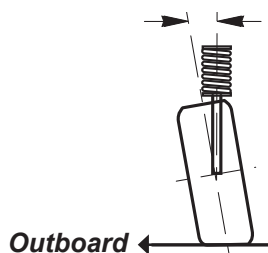
FRONT SUSPENSION

Model Type / Suspension Option / Yokohama Tyre Option or Branding

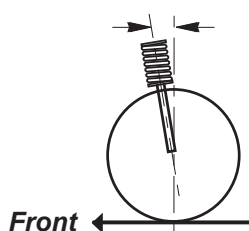
Elise - 'Standard' suspension / AD07 LTS branded tyres	Elise - Exige 'Sport' suspension / AD07 or A048 LTS branded tyres	Elise - Exige 'Supersport' suspension / A048 tyres LTS branded tyres	Elise - 'Standard' suspension/ Yokohama AD07 non - branded or LTS2 tyres or Yokohama V105 tyres	Elise - 'Sport' suspension / A048 tyres LTS branded tyres	Elise - 'Sport' suspension /Yokohama AD07 non - branded or LTS2 tyres or Yokohama V105 tyres	Elise - Cup 250 - 'Sport' suspension / Yokohama A048 tyres or A052 tyres	Elise - Cup 260 Nitron 1-Way Adjustable Dampers / Yokohama AD08R tyres
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Total Toe Angle	0.00° (Zero)	0.00° (Zero)	0.00° (Zero)	+ 0.12° (Toe in)	0.00° (Zero)	+ 0.12° (Toe in)	0.00° (Zero)	0.00° (Zero)
Tolerance Range	- 0.07° to + 0.07°	- 0.07° to + 0.07°	- 0.07° to + 0.07°	- 0.12° to + 0.02°	- 0.07° to + 0.07	- 0.12° to + 0.02°	- 0.12° to + 0.02°	- 0.12° to + 0.02°



Camber	- 0.10°	- 0.30°	- 0.20°	- 0.10°	- 0.30°	- 0.30°	- 0.30°	- 0.30°
Tolerance Range	- 0.10° to - 0.30°	- 0.10° to - 0.50°	- 0.10° to - 0.30°	- 0.00° to - 0.20°	- 0.10° to - 0.50°	- 0.20° to - 0.40°	- 0.20° to - 0.40°	- 0.20° to - 0.40°
Maximum Side/Side	± 0.20°	± 0.20°	± 0.20°	± 0.10°	± 0.20°	± 0.10°	± 0.10°	± 0.10°



Caster	+ 3.80°	+ 3.80°	+ 3.80°	+ 3.80°	+ 3.80°	+ 3.80°	+ 3.80°	+ 3.80°
Tolerance Range	+ 3.50° to + 4.10°	+ 3.50° to + 4.10°	+ 3.50° to + 4.10°	+ 3.50° to + 4.10°	+ 3.50° to + 4.10°	+ 3.50° to + 4.10°	+ 3.50° to + 4.10°	+ 3.50° to + 4.10°
Maximum Side/Side	± 0.30°	± 0.30°	± 0.30°	± 0.20°	± 0.30°	± 0.20°	± 0.20°	± 0.20°

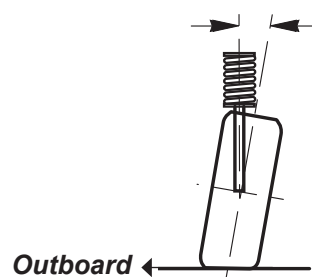
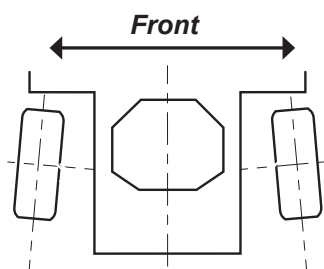
Elise Cup 260 - Nitron 1-Way Adjustable Front Damper Settings

Front Damper - 14 Clicks

Refer to Technical Service Bulletins TSB 2014/09, TSB 2016/01, TSB 2018/23 and Service Notes Section GH.3 for information on Yokohama AD07 LTS branded, LTS2 branded or non-branded tyres and V105/A052 specification tyres.



REAR SUSPENSION



Model Type / Suspension Options / Yokohama Tyre Options					
Elise - 'Standard' suspension / Yokohama AD07 & V105 tyres (all recommended brands)	Elise - Exige 'Sport' suspension /Yokohama AD07 & V105 tyres (all recommended brands)	Elise - Exige 'Supersport' suspension / A048 tyres LTS branded tyres	Elise - 'Sport' suspension / A048 tyres LTS branded tyres or Yokohama A052 tyres	Elise - Cup 250 - 'Sport' suspension / Yokohama A048 & A052 tyres	Elise - Cup 260 Nitron 1-Way Adjustable Dampers / Yokohama AD08R tyres

Total Toe Angle	+ 0.32° (Toe in)	+ 0.40° (Toe in)	+ 0.48 (Toe in)	+ 0.52° (Toe in)	+ 0.52° (Toe in)	+ 0.52° (Toe in)
Tolerance Range	- 0.02° to + 0.08°	- 0.02° to + 0.08°	- 0.02° to + 0.08°	- 0.02° to + 0.08°	- 0.02° to + 0.08°	- 0.02° to + 0.08°

Camber	- 1.80°	- 1.80°	- 2.50°	- 1.80°	- 1.80°	- 1.80°
Tolerance Range	- 1.70° to - 1.90°	- 1.70° to - 1.90°	+ 2.40° to + 2.60°	- 1.70° to - 1.90°	- 1.70° to - 1.90°	- 1.70° to - 1.90°
Maximum Side/Side	± 0.20°	± 0.20°	± 0.20°	± 0.20°	± 0.20°	± 0.20°

Elise Cup 260 - Nitron 1-Way Adjustable Rear Damper Settings

Rear Damper - 10 Clicks

Refer to Technical Service Bulletins TSB 2014/09, TSB 2016/01, TSB 2018/23 and Service Notes Section GH.3 for information on Yokohama AD07 LTS branded, LTS2 branded or non-branded tyres and V105/A052 specification tyres.



ELECTRICAL

Light Bulbs

		Wattage	Type
Headlamps	- prior '07	- main beam	55 H7
		- dip beam	55 H1
	- from '07	- main beam	55 H7U
		- dip beam	55 H7U
	2011 Elise	- main beam	65 H9B
		- dip beam	60 HB3A
Driving lamps			55 H3
Front side/parking lamps	- except '11 Elise	5	W5W
	- 2011 Elise	-	5 x LED
Side repeater lamps	- except '11 Elise	5	WY5W amber
	- 2011 Elise	-	LED
Front turn indicators	- except '11 Elise	21	PY21w amber
	- 2011 Elise	-	11 x LED
Rear turn indicators	- prior '06	21	H21
	- from '06	16	W16W capless
Stop/Tail lamps	- prior '06	4/21	P21/4w
	- from '06	-	20 x LED
Stop lamps (USA)	- prior '06	21	H21
	- from '06	-	20 x LED
Tail lamps	- prior '06	5	R5W
	- from '06	-	20 x LED
Tail/turn lamps (USA)	- prior '06	4/21	P21/4w
Rear fog lamps	- except '11 Elise	4/21	P21/4w
	- 2011 Elise	-	10 x LED
Reversing lamp	- prior '06	21	H21
	- from '06	16	W16W capless
High mounted stop lamp	- Elise	2.5	16 x LED
	- Exige	5	W5W capless
Licence plate lamps		5	C5W
Interior lamp		5	W5W
System voltage/polarity		12V negative earth	
Alternator	- 2ZZ/1ZZ	85A	
	- 1ZR/2ZR	100A	
Battery (Lead acid service replacement)			
	- non USA	- type	Varta Blue Dynamic 544 402 044 3132
		- short code	B18
		- capacity	44 Ah
		- cold test current	440 A (EN)
		- dimensions	L 207, W 175, H 175mm
	- USA	- type	Delco 19001598
		- BCI code	26R-6YR
		- cranking power	550 amps @ -18°C
		- reserve capacity	80 minutes
Battery (Lithium ion service replacement)			
	- type	SB12V20P-SC	
	- rating	70 to 100Ah (equivalent to lead - acid)	
	- weight	3.6 kg	



TRANSMISSION

Gearbox	- all except Elise S (1ZZ)	6-speed manual transaxle incl. final drive
	- Elise S (1ZZ)	5-speed manual transaxle incl. final drive
Differential	- standard	Open, bevel gear
	- option (2ZZ only)	Torsen or plate type LSD combined with with Lotus Traction Control engine programming
Transmission designation by powertrain	- Elise 111R (2ZZ)	C64
	- Elise S (1ZZ)	C56
	- Elise (1ZR/2ZR)	EC60

Gear	Ratio			mph (km/h)/1000 rpm		
	C64	C56	EC60	C64	C56	EC60
First	3.17	3.17	3.54	5.1 (8.2)	5.36 (8.62)	4.75 (7.64)
Second	2.05	1.90	1.91	7.7 (12.4)	8.73 (14.1)	8.79 (14.1)
Third	1.48	1.39	1.31	10.7 (17.2)	12.0 (19.2)	12.8 (20.6)
Fourth	1.17	1.03	0.97	13.6 (21.8)	16.2 (26.0)	17.3 (27.9)
Fifth	0.92	0.82	0.82	17.3 (27.8)	20.4 (32.8)	20.6 (33.1)
Sixth	0.81	-	0.70	19.4 (31.3)	-	24.0 (38.6)
Reverse	3.25	3.25	3.33			
Final Drive	4.53	4.31	4.29			

CLUTCH

Type	Single dry plate. Diaphragm spring cover. Hydraulic release.		
Friction plate diameter	- 2ZZ/1ZZ/2ZR		215 mm
	- 1ZR		212 mm
Diaphragm finger clearance	- 2ZZ/1ZZ		1.00 mm
	- 1ZR/2ZR		XXX
Max. finger wear	- 1ZR	- depth	0.5 mm
		- width	6.0 mm
Diaphragm finger height	- 2ZZ/1ZZ	- new	37.5 - 32.1 mm
		- service limit	42.75 mm
Diaphragm finger height	- 1ZR/2ZR	- new	XX.X - XX.X mm
		- service limit	XX.XX mm
Max. finger tip non-alignment	- 1ZR		0.5 mm
	- 2ZR		X.X mm
Friction plate thickness	2ZZ/1ZZ	- new	7.4 - 6.9 mm
	1ZR	- new	X.X - X.X mm
	2ZR	- new	7.5 - 7.3 mm
	2ZZ/1ZZ	- service limit	5.6 mm
	1ZR/2ZR	- service limit	5.9 mm
Rivet depth	2ZZ/1ZZ	- new	1.0 mm
	1ZR/2ZR	- new	X.X mm / 1.62 mm
	2ZZ/1ZZ	- service limit	0.2 mm
	1ZR/2ZR	- service limit	0.3 mm / 0.87 mm
Friction plate run-out	2ZZ/1ZZ	- new	0.8 mm
	1ZR/2ZR	- new	0.8 mm
	2ZZ/1ZZ	- service limit	1.0 mm
	1ZR/2ZR	- service limit	1.0 mm
Pressure plate warp	2ZZ/1ZZ	- service limit	0.15 mm
	1ZR/2ZR	- service limit	0.15 mm



BRAKES

Brake discs		Cast iron, curved vane ventilated, cross-drilled discs on all four wheels.
Calipers	- front	A.P. Racing, aluminium alloy body, one pair of opposed pistons
	- rear	Brembo, cast iron, single piston sliding rear calipers
Disc size	- front & rear	288 mm
Operation		Tandem master cylinder with vacuum servo and Kelsey Hayes EBC430 Anti-lock system (all 2ZZ and 1ZR up to '11MY VIN BH_10930). Bosch 8.1 ESP Anti-lock system (1ZR from '12MY VIN BH_10931 and all 2ZR from start of production), Cable operation of rear calipers, self adjusting for pad wear.
Parking brake		

STEERING

Type		Rack and pinion
Turns, lock to lock		2.8
Gear ratio		15.8:1
Rack height plate		6 notch
Turning circle	- between walls (excl. mirrors)	10 m
	- between kerbs	10.8 m

FUEL CONSUMPTION (Refer to next page for Elise Cup models)

	1ZZ-FE	2ZZ-GE	1ZR-FAE	2ZR-FE
<i>Urban- Prior 2010</i>	11.3 l/100km	-	-	-
- Elise R, Exige	-	12.1 l/100km	-	-
- Elise SC	-	11.6 l/100km	-	-
- Exige S	-	12.3 l/100 km	-	-
<i>From 2010</i>	10.6 l/100km	-	-	-
- Elise R	-	11.6 l/100km	-	-
- Elise SC	-	11.8 l/100km	-	-
- Exige S	-	11.9 l/100 km	-	-
	-	-	8.3 l/100km	-
				10.3 l/100km
<i>Extra Urban- Prior 2010</i>	6.5 l/100km	-	-	-
- Elise R, Exige	-	6.8 l/100km	-	-
- Elise SC	-	6.7 l/100km	-	-
- Exige S	-	9.1 l/100 km	-	-
<i>From 2010</i>	5.8 l/100km	-	-	-
- Elise R	-	6.2 l/100km	-	-
- Elise SC	-	6.4 l/100km	-	-
- Exige S	-	6.5 l/100km	-	-
	-	-	5.0 l/100km	-
				5.9 l/100km
<i>Combined- Prior 2010</i>	8.3 l/100km	-	-	-
- Elise R, Exige	-	8.8 l/100km	-	-
- Elise SC	-	8.5 l/100km	-	-
- Exige S	-	9.1 l/100km	-	-
<i>From 2010</i>	7.6 l/100km	-	-	-
- Elise R	-	8.2 l/100km	-	-
- Elise SC	-	8.5 l/100km	-	-
- Exige S	-	8.5 l/100km	-	-
	-	-	6.28 l/100km	-
				7.5 l/100km



	Elise S Cup	Elise Cup 250	Elise Cup 260
- urban	9.9 l/100km	10.1 l/100km	10.1 l/100km
- extra urban	6.1 l/100km	6.0 l/100km	6.0 l/100km
- combined	7.5 l/100km	7.5 l/100km	7.5 l/100km

Fuel consumption

WLTP

Elise Sport 220

Low	11.8 l/100km
Medium	7.5 l/100km
High	6.9 l/100km
Extra High	7.6 l/100km
Combined	7.9 l/100km
CO2 emissions g/km	179 g/km (combined)

Elise Sport 240

Low	11.7 l/100km
Medium	7.5 l/100km
High	6.9 l/100km
Extra High	7.5 l/100km
Combined	7.8 l/100km
CO2 emissions g/km	177 g/km (combined)