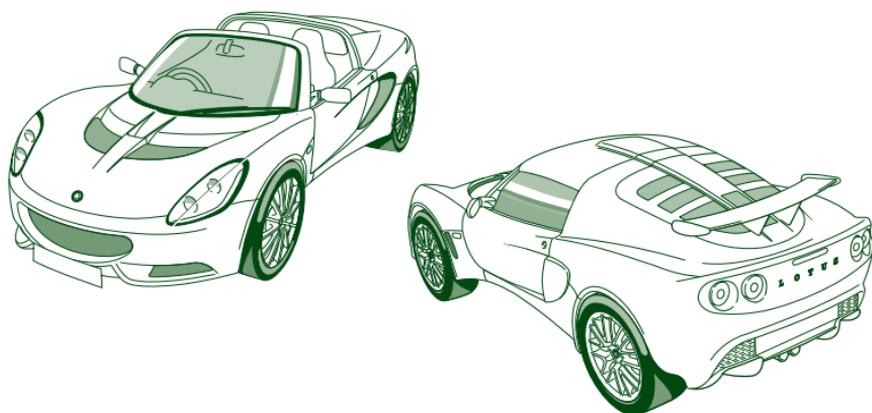




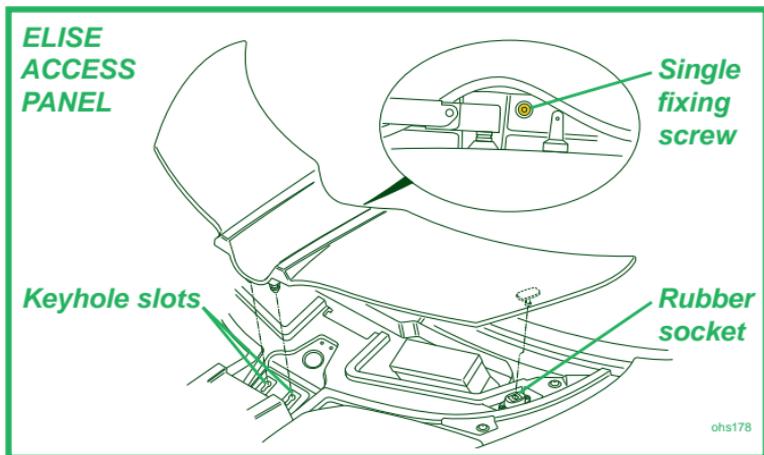
ELISE & **EXIGE**



OWNER'S HANDBOOK SUPPLEMENT

2011 M.Y. Onwards USA

**To be read in conjunction with handbook
E121T0324 and '08 supplement LSL529**



Auxiliary Battery Posts (see page 40)

If the vehicle is electrically locked, and then the vehicle battery becomes discharged, the central door locking will not operate. The doors can be unlocked from outside only after removing the front body access panel (hexagonal key is required) and providing a 12 volt positive and negative supply to the auxiliary power posts. The 2011 Elise model is equipped with this facility in a similar manner to the Exige (see page 40).

Front Body Access Panel (*Elise*) (see page 82)

The front body incorporates a single removable access panel to allow servicing of the brake/clutch fluid reservoir and main fusebox. Be aware that the lightweight panel is susceptible to wind blown and other accidental damage after removal.

To remove the access panel, use the hexagonal key supplied in the vehicle tool kit to release the single threaded fastener securing the centre rear edge of the panel. Pull the left and right hand ends of the panel upwards from the rubber sockets and withdraw the panel rearwards to release the front end from the keyhole slots.

To refit the panel, locate the two front pegs into the keyhole slots and slide the panel forwards. Press each side down into its rubber socket, and secure the centre rear with the single fixing screw, taking care not to cross-thread or overtighten. Re-stow the hexagonal key in the tool kit.

Engine Cover/Boot Lid (Elise) (see page 83)

The 2011 model Elise engine cover/boot lid, uses an internal release mechanism shared with the Exige model. No external key lock is fitted.

Engine Compartment Fuses (see page 142)

<i>Fuse Rating</i>	<i>Circuit</i>
R1 20A	Fuel pump
R2 10A	1.6 ltr.; Coils
3A	1.8 ltr.; TPMS
R3 5A	1.8 ltr.; Alternator sense
R4 25A	1.6 ltr.; Valve lift motor
5A	1.8 ltr.; ECU battery feed
R5 7.5A	1.6 ltr.; O2 heaters
5A	1.8 ltr.; O2 heaters
R6 7.5A	VSVs, VVT, VVL, purge
R7 10A	Injectors, coils, ECU power, a.c.
R8 5A	Re-circ. pump

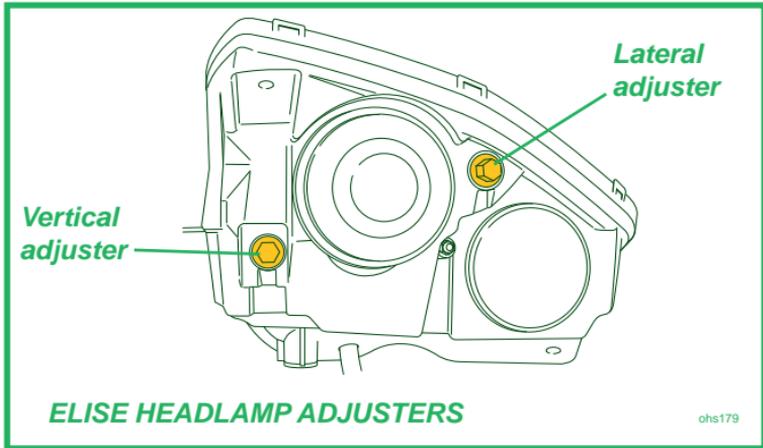
Footwell Sited Fuses (see page 143)

Eight fuses are secured to the main wiring harness just ahead of the scuttle beam and accessible from the passenger footwell.

<i>Fuse Rating</i>	<i>Circuit</i>
C1 20A	Interior fan
C2 15A	Wiper motor
C3 7.5A	Audio key-in
C4 7.5A	A.C. compressor
C5 15A	Auxiliary driving lamps
C6 5A	1.6 ltr.; Alternator ign.
C7 5A	1.6 ltr.; Alternator sense
C8 5A	Daytime running lamps

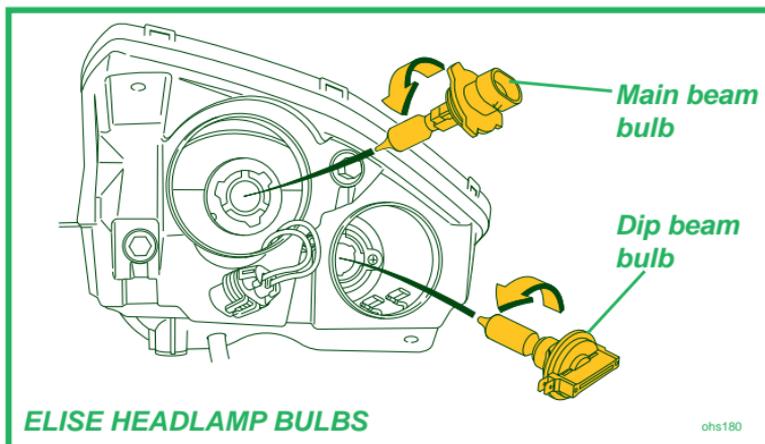
Headlamp Alignment (see page 144)

The headlamps of your Lotus Elise/Exige were correctly adjusted during the manufacture of the car, and should not subsequently require adjustment unless the headlamp assembly or front body is disturbed. Simply replacing the bulb will not affect alignment. Incorrectly adjusted headlamps can cause poor lighting performance or dazzle oncoming traffic. Special headlamp setting equipment is required to correctly aim the headlamps,



such that only qualified technicians using appropriate equipment should be entrusted with this procedure:

1. Using beam setting equipment compatible with local regulations, position the machine between 300 and 700mm in front of the LH headlamp, and parallel with the two headlamp units using the sight bar or similar device dependent on the machine design, to ensure cross car match. Use the guides provided on the machine to ensure the correct height and lateral setting.
2. Switch on the headlamp dip beams and check the lateral beam alignment. The 'knee point' of the beam cut off line must lie within a tolerance of 2% to the passenger side, and 0%. Check the vertical alignment of the dip beam which must lie within a tolerance of -0.5% and -2%.
3. If adjustment is required, turn the steering to full lock to facilitate removal of the three screws retaining the access cover in the wheelarch liner. The alignment relationship between high and low beam lamps is fixed, but two adjusters are provided on the back of the headlamp housing by which the whole lamp unit may be adjusted.
4. *Elise*: To adjust the beam laterally, turn the outboard hexagonal adjuster screw. Optimum setting is 0%. To adjust the beam vertically, turn the inboard adjuster screw.



Optimum setting is -1.2%. Re-check lateral alignment.

Exige: To adjust the beam laterally, turn the inboard cross-head adjuster screw as necessary. Optimum setting is 0%. To adjust the beam vertically, turn the outboard cross-head adjuster screw to attain the optimum setting of - 1.5%. Re-check lateral alignment.

5. Repeat for the opposite lamp.
6. Re-fit the access cover in the wheelarch liner.

Headlamp Units (*Elise*) (see page 144)

The headlamp assemblies on Elise models feature Halogen main and dip beam lamps, LED amber string direction indicators, and LED white string daytime running/parking lamps. Each headlamp assembly is mounted in a plastic housing, with a transparent acrylic cover treated with a silicone hardcoat. Certain atmospheric conditions may result in some condensation inside the lamp unit, but this should disperse with the lamps in operation and cause no concern.

Headlamp Bulbs: For access to the separate dip and main beam bulbs, first turn the steering to full lock to facilitate removal of the three screws retaining the access cover in the wheelarch liner.

To replace the dip beam bulb, remove the protective boot from the back of the outboard lamp, twist the bulb holder counter-clockwise, and withdraw from the lamp. Prise open the retaining barbs to allow the harness plug to be disconnected. Replace

the 12V 60W type HB3A bulb, and reassemble in reverse order to disassembly.

Replacing the main beam bulb from the inboard lamp is similar to the above except that the harness connection uses separate spade terminals (may be connected either way round). The main beam bulb is 12V 65W type H9B.

Elise SC

Engine

The Elise SC uses the same 2ZZ-GE VVT*i* engine as fitted to the Elise R, but is equipped with a supercharger package, which by dispensing with the chargecooler used on supercharged versions of the Exige, maintains vision through the rear window. The revised supercharger is mounted on the forward side of the engine, and by integrating the supercharger housing with the inlet manifold, Lotus has minimised intake tract length and manifold volume, and maintained the rapid throttle response of the Elise R, with only a small engine weight penalty.

By optimising supercharger rotor size, using high flow fuel injectors and astute programming, the power output of the Elise SC is increased from the 192 PS of the Elise R to 220 PS. Torque is also increased from the 181 Nm of the Elise R to 210 Nm.

The switching point for the high lift cams varies between 4,500 and 6,200 rpm dependent on engine load, with the airbox flap valve opening at 4,500 rpm.

Servicing

The increased demand placed on the auxiliary drive belt by the supercharger, requires that this belt be renewed at the first occurring (since last service) of 24 months/18,000 miles/30,000 km

TECHNICAL DATA (see page 161)

Dimensions

Overall length	- Elise	3824 mm		
	- Exige	3797 mm		
Overall width	- excl. mirrors	- Elise 1719 mm		
		- Exige 1727 mm		
	- incl. mirrors	1850 mm (approx.)		
Overall height	- Elise	1117 mm		
(at kerb weight)	- Exige	1159 mm		
Wheelbase		2300 mm		
Track	- front	1457 mm		
	- rear	1506 mm		
Ground clearance (mid laden)		130 mm		
Front overhang	- Elise	805 mm		
	- Exige	805 mm		
Rear overhang	- Elise	719 mm		
	- Exige	692 mm		
Approach angle (unladen)		12.5°		
Departure angle (unladen)		23°		
Unladen weight (lightest)	- Elise	- total 876 kg	}	inc. full
		- front 342 kg	}	fuel tank
		- rear 534 kg	}	
	- Elise R	- total 860 kg	>	inc. full
		- front 327 kg	>	fuel tank
		- rear 533 kg	>	
	- Elise SC	- total 862 kg	}	inc. full
		- front 328 kg	}	fuel tank
		- rear 534 kg	}	
	- Exige	- total 875 kg	>	inc. full
		- front 328 kg	>	fuel tank
		- rear 547 kg	>	
Max. weight	- Elise	- total 1141 kg	}	inc.
		- front 429 kg	}	occupants
		- rear 712 kg	}	& luggage
	- Elise R & Exige	- total 1166 kg	>	inc.
		- front 443 kg	>	occupants
		- rear 723 kg	>	& luggage
	- Elise SC	- total 1126 kg	}	inc.
		- front 428 kg	}	occupants
		- rear 698 kg	}	& luggage
Trailer towing				Not permissible

<i>Light Bulbs</i>			<i>Watt.</i>	<i>Type</i>
Headlamps	- Elise	- dip	60	HB3A
		- beam	65	H9B
	- Exige	- dip	55	H7U
		- beam	55	H7U
Driving lamps		55	H3	
Front drl/parking lamps	- Elise	-	5 x LED	
	- Exige	5	W5W	
Front turn indicators	- Elise	-	11 x LED	
	- Exige	21	PY21w amber	
Side repeater lamps	- Elise	-	LED	
	- Exige	5	WY5W amber	
Rear turn indicators		16	W16W capless	
Stop/Tail lamps		-	20 x LED	
High mounted stop lamp	- Elise	-	16 x LED	
	- Exige	5	W5W capless	
Reversing lamp		16	W16W capless	
Licence plate lamps		5	C5W	
Interior lamp		5	W5W	

