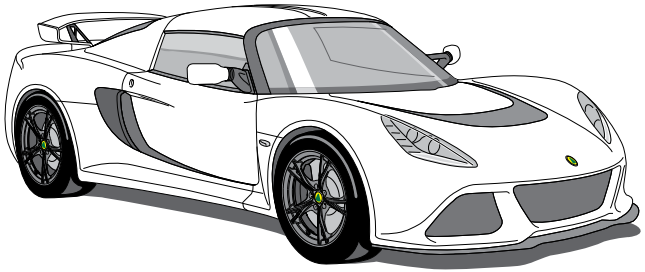

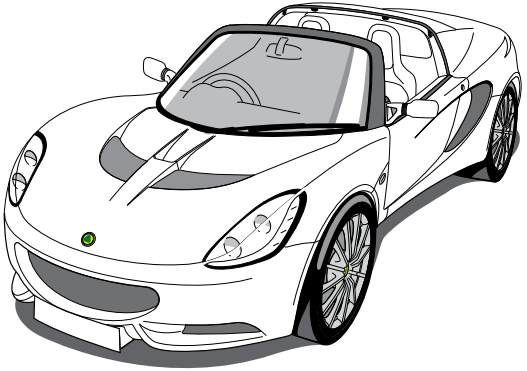

Owner's Handbook





ELISE
ELISE S
EXIGE S
EXIGE S ROADSTER
EXIGE S AUTOMATIC

Publication Part No. F120T0324J -2 for 2015 Model Year Vehicles © Lotus Cars Ltd September 2016

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INTRODUCTION

Congratulations on your purchase of a Lotus vehicle and welcome to the Lotus family. The Lotus Elise and Exige have been designed for the discerning driver, and aims to provide fun motoring from a lightweight, distinctively styled and efficient package.

This handbook has been written for the owner/driver and should be read before using the car, and then stored in the car for ready reference, remaining with the car throughout any subsequent changes of ownership.

The content includes important safety information to protect you from injury, explanations and instructions for operating the driving controls, owner maintenance requirements, technical specifications, and an explanation of the warranty. It is not intended to provide all the technical information required for servicing, and should any adjustment become necessary, owners are urged to contact their Lotus dealer. It is a requirement of the warranty, and the responsibility of the owner/driver, to ensure that servicing of the car is carried out at the correct intervals.

A comprehensive contents listing (see page 4) and an alphabetical index at the back of this book are provided to help you find information about any particular feature or topic.

The information and specifications included in this publication were correct at the time of printing. Lotus has a policy of continuous product improvement, and reserves the right to discontinue or change specification, design or equipment at any time without notice and without incurring any obligation whatsoever. You are urged to keep in regular contact with your Lotus dealer to ensure that you may be kept informed of any technical developments which may improve the specification, performance or safety of your car.

This handbook covers various Elise/Exige models, and may include descriptions of equipment and features which are not fitted on your particular car.

Your Lotus is intended to be used safely, in a manner appropriate to the driving conditions, with all local laws and regulations being observed.

IMPORTANT SAFETY INFORMATION

To help you make informed decisions about safety, this section details some important safety information about hazardous situations which, if not avoided, could result in death or serious injury. In addition, important safety information is also provided in forms including:

- Safety labels on the car;
- Safety messages throughout this handbook; highlighted as follows:

⚠WARNING

Used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in death or serious injury.

This handbook also contains information about situations that can lead to damage to property including damage to the car. Property damage information is highlighted as follows:

NOTICE: Messages are intended to help you avoid damage to your car, other property or the environment.

⚠WARNING

The following paragraphs of this section contain safety messages.

Don't Drink and Drive

Alcohol and driving don't mix. Even one drink can reduce the driver's ability to respond to changing conditions, with reaction time deteriorating with every additional drink. Do not compromise driving safety by drinking alcohol.

Control Your Speed

Excessive speed is a major factor in crash injuries and deaths. Generally, the higher the speed the greater the risk, but serious accidents can also occur at lower speeds. Never drive faster than is safe for current conditions, irrespective of the local speed limit.

Keep Your Car in Safe Condition

Having a tyre blowout or a mechanical failure can be extremely hazardous. To reduce the possibility of such problems, check the tyre condition and pressures frequently, and have all scheduled maintenance (see separate Maintenance Record booklet) performed in a timely manner.

Servicing, Repairs and Modifications

Inexpert or unapproved modifications or additions to the car, or allowing servicing or repairs to be carried out by unskilled persons, could adversely affect the handling of the car and the operation of its safety equipment. Ensure that only modifications approved by Lotus are undertaken. DO NOT allow servicing, repairs or modifications to be carried out by unskilled persons. Lotus dealers have trained staff who are best qualified to maintain your car to the correct specification.

Failure to comply with these provisions may invalidate the New Vehicle Warranty and/or result in a crash in which you and others may be killed or seriously injured.

Track Use

Lotus models are designed as road going sports cars. It is recognised that owners may wish to use their car occasionally on closed circuits or private test tracks in order to experience the car's full range of dynamic capabilities, and indeed the specification of some models has been optimised for just such activities.

This type of usage must be accompanied by appropriate driver training and vehicle preparation by a qualified specialist, in order to maintain a suitable level of safety.

Lotus is pleased to maintain vehicle warranty coverage for any reasonable **NON-COMPETITIVE** use in this manner. For vehicle preparation, a 'Pre-Track Session Check List' is available from your dealer under part number LSL520b.

Competitive Use

Lotus' New Vehicle Warranty cover will be invalidated if the car is raced or driven in a competitive or abusive manner.

Any type of timed, competitive vehicle use requires that a suitably qualified specialist apply expert levels of vehicle preparation and servicing, over and above that specified in the Maintenance Schedule. Vital information on suspension torque settings and safety precautions are published in the relevant Service Notes manual available from your dealer. A 'Pre-Track Session Check List' may also be ordered under part number LSL520b.

If contemplating using the car in a competitive manner on closed circuits, appropriate parts and accessories including, but not limited to, the following, should be fitted and used:

- Chassis rear brace kit (Elise only);
- Accusump engine oil reservoir;
- Motorsport brake pads.

Your Lotus dealer will be pleased to advise you on any of these topics, and make further recommendations when necessary.

Engine Exhaust Fumes

Engine exhaust fumes can kill. They contain the gas carbon monoxide (CO), which you can't see or smell. It can cause unconsciousness and death. If you ever suspect exhaust gas is entering the cabin, do not drive the car until the fault has been repaired. Running the engine in an enclosed space can let exhaust gas into the car, even more quickly if the interior fan is switched on. NEVER park in a garage with the engine running.

Exhaust gas could enter the cabin if:

- The car is damaged in a collision.
- The car is damaged by driving over high-points in the road or over road debris.
- Repairs aren't carried out correctly.
- The car or exhaust system has been modified improperly.

Ensure the car is checked by an authorised dealer after any repairs have been made. The exhaust sounding strange or different may be an indication of exhaust system damage as described above.

Precautions Against Fire Risk:

- If the engine malfunctions in any way, which may be indicated by a change in sound, have the fault diagnosed and repaired promptly. Continuing to drive the car with an engine misfire could cause the catalytic converter to overheat. This could cause heat damage to other components and/or an engine bay fire. Operation of the 'Malfunction Indicator Lamp' (MIL) is fully described later in this handbook on page 29.
- DO NOT park or drive the car in areas where combustible material, such as dry grass or leaves, could come into contact with the hot exhaust system. Under certain wind and weather conditions a grass fire could be started.
- DO NOT tamper with any electrical components with the battery connected. You could receive an electric shock from the spark plug coils or start a fire.
- DO NOT use the car if a fuel leak is suspected, as may be indicated by a persistent smell of fuel. Have the fault diagnosed and rectified without delay. A fuel leak may result in a fire or explosion.
- DO NOT touch or approach any part of a hot exhaust system. Severe burns could result.

Engine Bay

If checking or adjusting any engine bay equipment with the engine running, take all suitable precautions to prevent body parts or clothing becoming caught in moving engine components; death or injury could otherwise result.

BEFORE DRIVING THE CAR

Before each journey:

- Check tyres for damage, wear and correct pressure. Incorrect inflation pressure degrades vehicle handling (See 'Tyres' on page 91).
- Check all windows, mirrors and lights are clear and unobstructed and all lights are correctly working.
- Check that the tailgate and front body access panel are correctly latched;
- Adjust the seat and mirrors, and familiarise yourself with the controls.
- Check all instruments and tell tale lamps are reading correctly.
- Ensure that all occupants are properly restrained by their seat belts.

Driving a Car Requires:

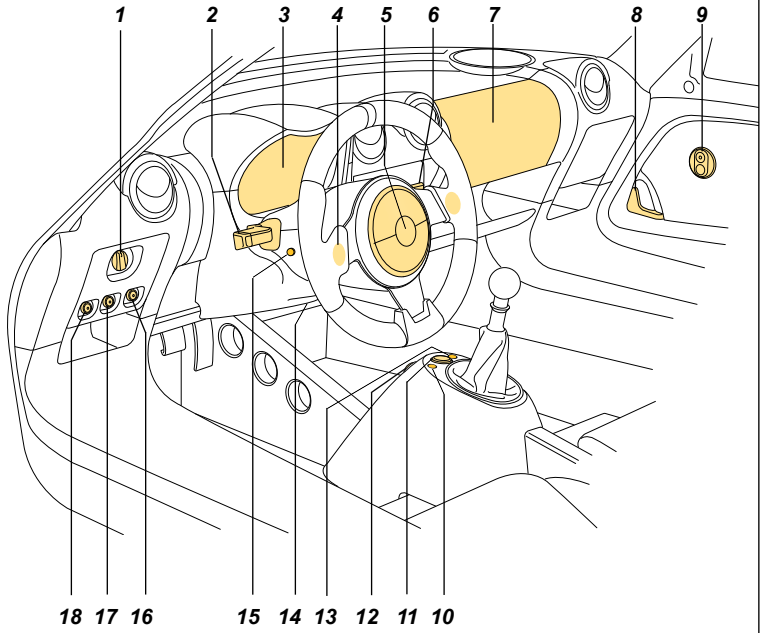
- Care;
- Attention;
- Sensible judgement.

Be aware that any motor car has the potential to cause death or injury both to its occupants and/or other persons, and must be used only in a responsible and cautious manner.

Remember:

- All occupants must wear seat belts.
- Never drive whilst under the influence of alcohol or drugs.
- Never drive when excessively tired.
- Never use a hand held mobile phone, map read or attempt other distracting activities whilst driving.
- Always obey all speed and traffic laws and regulations, never exceed the local speed limit and take into account the traffic and road conditions.
- Be particularly careful driving on slippery or wet surfaces.
- Restrain exploitation of full vehicle performance until appropriate familiarity and experience have been gained and only in circumstances when it is legal and safe to do so.
- Adhere to the Maintenance Schedule and keep the car in good condition.
- Never leave young children unattended in the car.
- Read and take account of all safety messages in this handbook.

Manual Cabin Layout
(Exige shown - Elise Similar)



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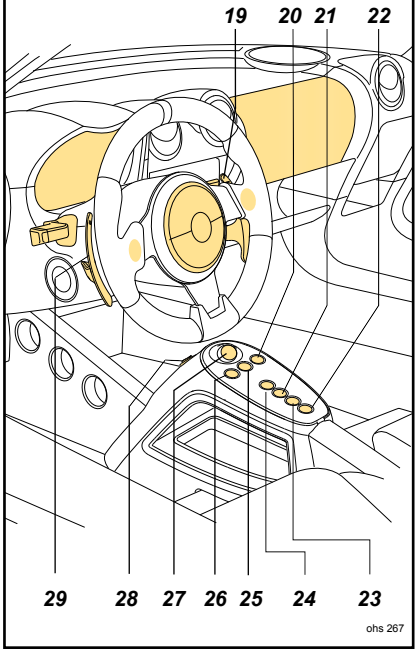
Automatic Cabin Layout (Exige Only)



CABIN

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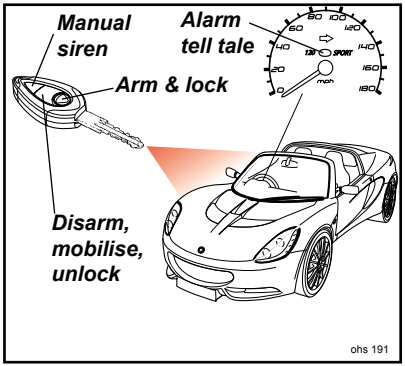


Transmitter Keys

Two transmitter keys are provided combining a mechanical blade with a three button transmitter fob. The blade is used to operate the ignition switch/steering column lock, the emergency manual door locks, and the fuel filler cap. The fob push buttons are used to operate the electronic immobiliser, alarm system and central door locking.

The transmitter keys will normally operate within a range of 5 metres from the car, but this may be reduced by the presence of other radio signals or large metal structures in the vicinity.

The transmitter keys should be kept separate, and a replacement obtained immediately after any loss.

The 4-digit code for the mechanical key, the unique serial number of the immobiliser/alarm, and the system's 5-digit security code number are supplied on tags attached to the key ring of a new vehicle. In order to allow replacement transmitter keys to be matched to the car, it is essential that these numbers are recorded and kept safely. Memorising the security code will allow the security system to be overridden in case of transmitter loss or failure (see page 16). If the codes are not available on receipt of the vehicle, immediately enquire with the dealer or vendor.

⚠WARNING

Never leave the car unattended with the key in the ignition switch, especially if unsupervised children and/or animals are in the car. Dangers can arise from imprudent operation of window or other electrical controls. If engine starting attempts are made, an accident could be caused, resulting in death or serious injury.

Vehicle Security Alarm

The PFK 457 alarm system features:

- U.K. approval Thatcham category 1*.
- Transmitter key 'Dynamic coding'; Each time the transmitters are used its encrypted rolling code is changed to guard against unauthorised code capture.
- Passive (automatic) activation of the immobiliser, central door locking and alarm siren.
- Ingress protection on doors, front body access panels and tailgate.
- Cabin intrusion detection, (if fitted).
- Self powered siren to protect if the battery is disconnected.
- Personal protection by 'on demand' activation of the siren.
- Emergency alarm override and transmitter key programming.

Disarming the Alarm/Unlocking Doors

With the vehicle locked and alarm armed, the tell tale lamp in the speedometer face will flash once every 3 seconds. To disarm the alarm and unlock the doors:

- Press the central button on the key fob. First press will unlock the driver's door, after a short pause a second press unlocks the passenger's door.
- This command is acknowledged by:
- A double flash of the hazard lamps.
- The alarm tell tale will extinguish.
- The engine will be mobilised.
- The interior lamp will fade on, and remain lit for up to 2 minutes (if set to the 'courtesy' position see page 38).

 *Category 1 approval not applicable if the vehicle has not been fitted with cabin intrusion detection sensing. Please contact your dealer for clarification.

Auto Re-Arm
If a door is not opened within 2 minutes of a disarming command, the alarm system will automatically re-arm.

Automatic Immobilisation
The alarm automatically immobilises the engine after the ignition has been turned off for 40 seconds, or a similar period has elapsed since the last mobilising command. With the ignition off, the alarm tell tale indicates the engine is immobilised by a brief flash every second. With ignition on, immobilisation is indicated by a continuously lit tell tale. To mobilise the car, press once the transmitter centre button; the alarm tell tale will be extinguished.

Arming the Alarm/Locking the Doors
Soft top or hard top fitted
Remove the ignition key, shut both doors, and check that the engine lid/tailgate and front body access panels are secure.
- Press once the logo button on the key fob.
- This command will be acknowledged by a single flash of the hazard lamps.
- Both doors will be locked, and after a period of 40 seconds, the engine is immobilised, and alarm system armed.
- The alarm tell tale will flash once every 3 seconds.
- The interior lamp (if lit) will fade off.

Note:
i. If the system is armed when a door is not fully shut, three triple beeps will sound as a warning and opening a door will not trigger the alarm.
ii. If the system is armed when the tailgate is not fully closed, three warning double beeps will be heard, opening a door in this instance will trigger the alarm.
iii. If one transmitter is used to disarm the alarm, and a second transmitter to re-arm, a system test mode will be initiated, and operational variations will occur. Allow an undisturbed period of 2 minutes to elapse to restore normal transmitter operation.

When fully armed the alarm will be triggered by any of the following actions:
- Interruption of the car battery power supply or siren cables.
- 'Hot wiring' the ignition circuit .
- Opening a door;
- Opening the engine lid/tailgate;
- Movement detected within the cabin (unless function not fitted or de-selected).

If the alarm is triggered, the hazard warning lamps will flash and the siren will sound for a period of approximately 30 seconds before closing down and resetting, ready for any further triggering input. If a trigger is continuously present (e.g. door left open), the alarm will repeat for a maximum of eight 30 second cycles before excluding the triggering sensor for the remainder of the armed period.

To silence the siren, press once the central, disarm button on the transmitter key. If necessary, press a second time to disarm the alarm. Note that if the vehicle battery has been disabled, it will not be possible to interrupt the siren until completion of the eight cycle sequence.

Alarm Tell Tale Summary

Flash every 3 sec;	Immobilised, alarm armed
Flash every 1.5 sec;	Immobilised, alarm disarmed, ignition off
Tell tale on;	Immobilised, alarm disarmed, ignition on
Tell tale off;	Mobilised, alarm disarmed ready to start

Alarming Arming - Roof Removed

Soft top or hard top not fitted, or if shower cover is fitted

Under normal conditions the interior intrusion sensor (if fitted) should not trigger the alarm even with the roof removed. But extreme weather conditions or involuntary movement of the shower cover (if fitted) may trigger the alarm. If fitment of the shower cover is required it is recommended to turn off the interior movement sensor (if fitted) before arming the alarm. This is also recommended if an animal is to be left in the vehicle.

Turning Off Interior Movement Sensor

(If fitted)

To turn off the interior movement sensor press once the logo button on the key fob to set the alarm and press again within 2 seconds to de-activate the sensor. A single beep will sound as confirmation. The sensor will automatically re-activate next time the alarm is armed.

Manual Activation of Siren

Hold pressed the end button on the transmitter key for 3 seconds. The siren will sound, and the hazard lamps flash for a period of 30 seconds. To stop the siren, press once any of the transmitter buttons. Manual siren activation will not affect the alarm system status.

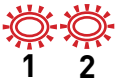
Emergency Disarming/Mobilising

If the key transmitter fails to function, and a spare key is not available, the alarm system's unique security code number may be used to disarm the alarm (if access is available to the cabin). If the alarm is armed, accessing the cabin, or turning on the ignition will trigger the alarm until completion of this emergency process.

Emergency Procedure:

- Turn on the ignition. The alarm tell tale will light.

- Within 10 seconds, turn the ignition off; the tell tale will begin to flash.

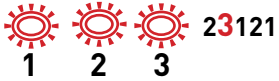


Example shown if security code is: **2**3121.

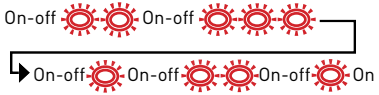
- After a number of flashes corresponding to the first digit of the security code is seen turn the ignition back on, again the alarm tell tale will light.

Note that the first flash may not be of full duration (but is still to be counted) and that 10 flashes correspond to a zero digit.

- Turn off the ignition and after a number of flashes corresponding to the second digit of the security code, turn on the ignition.



- Repeat this process until all 5 digits have been completed.



- If, at any stage of the process, a number is entered incorrectly, the system will immediately revert to the start, so that the whole security code must be re-entered.

- If the security code is entered correctly, the alarm will now be overridden and the engine mobilised. However, automatic immobilisation will still occur after an ignition off time of 40 seconds, requiring a repeat of the above procedure to mobilise.

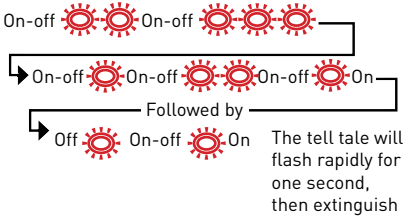
Note: Automatic re-arming of the alarm and automatic door locking cannot occur until a working transmitter is used to operate the alarm.

Programming Additional Transmitters
A maximum of 6 transmitters may be programmed to the car, any thereafter overwriting the first to have been programmed.

There are 2 steps to the programming procedure which are:

1. Setting the vehicle alarm system into emergency disarming/mobilising mode as shown on the previous page.
2. Programming additional transmitters.

Procedure:

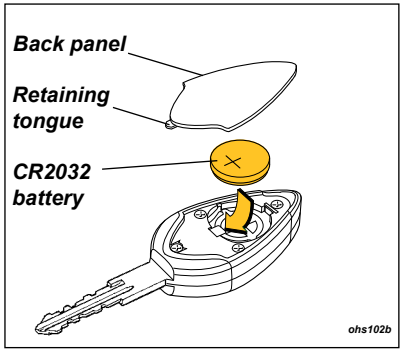


Enter the security code as detailed in the emergency disarming process previous, followed by the additional two digits 1, 1.

- Within 8 seconds, press any button on the transmitter to be programmed. The tell tale will then pulse rapidly and the siren will beep.
- Within 10 seconds press any button on the next transmitter to be programmed (if applicable), and repeat this process for all remaining transmitters.
- When all transmitters have been programmed, wait for 10 seconds, or turn off the ignition.
- To disable a lost or stolen transmitter from the system, use the above procedure to programme 6 transmitters, if necessary repeatedly reprogramming the same transmitter if less than 6 programmed transmitters are to be used.

Disconnecting the Car Battery
Before disconnecting, ensure that the alarm is disarmed in order to prevent its being triggered. Then wait for at least **30 MINUTES** after switching off the ignition to allow the ECU and associated sensors to shut down in the correct sequence.

Also refer to the battery section (see page 99) for further information.



Transmitter Key Battery Replacement
The transmitters are powered by a 3V, CR2032 type Lithium battery, which with normal use should last for 3 years. To ensure correct operation, it is recommended to renew the batteries every 12 months:

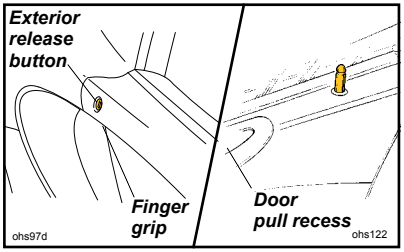
- Prise open the case cover using a screwdriver at the slot by the keyring hole.
- Remove the old battery, wait for 10 seconds before inserting the new battery with +ve sign uppermost, and hold the battery only by the periphery.
- Refit the back panel; press firmly to engage the clip.
- The transmitter should now operate normally.

⚠WARNING

In very hot/cold territories, or under conditions of extreme solar heating, be aware of exposed metal surfaces in the cabin. Take suitable precautions to guard against burn injuries from hot or cold metal.

Unlocked doors can be dangerous. Young children who get into unlocked cars may be unable to get out. Always lock your car whenever you leave it.

Before closing a door take care to avoid injury or damage by ensuring that no persons or objects will be trapped.

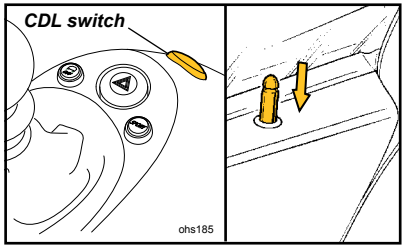


Central Door Locking (CDL)

The central door locking (CDL) operates both doors in conjunction with the alarm system. For full details of the alarm system, see pages 14 - 17.

To unlock from outside: Press the central button on the key fob. The first press will unlock just the driver's door, and after a short pause, a second press will unlock the passenger's door. The alarm will be disarmed and both doors unlocked.

To open from outside: Press the door exterior release button and pull open the door using the fingergrip below the button. From inside the car, pull the door shut using the recess provided at the top of the door trim panel.

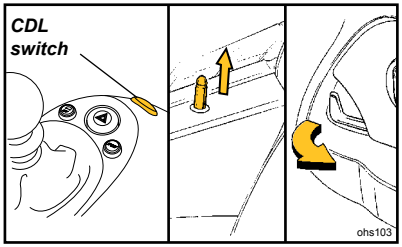


To lock from inside: Press the right hand side of the CDL rocker switch on the front of the gear lever shroud to lock both doors with or without the ignition switched on.

Alternatively, the doors can be locked in dividually by depressing the button at the rear end of each door sill.

⚠WARNING

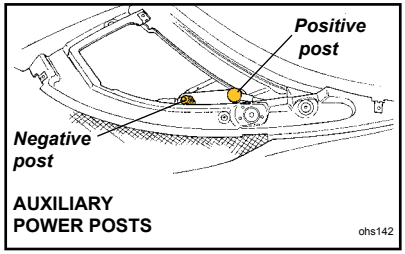
Whether locked using the rocker switch or sill buttons, the doors will be 'deadlocked' meaning that the interior door release handles will not open the doors. In order to get out of the car in an emergency when the doors are locked see the next section 'to unlock from inside'.



To unlock from inside: To unlock both doors from inside, press the left hand side of the rocker switch on the front of the gear lever shroud, or raise the sill button on each door. Note that in the event of a car collision which causes the safety inertia switch to be tripped, the doors will automatically be unlocked.

To open from inside: Pull the release handle at the front of the door and push open. Shut the door from outside by using firm hand pressure towards the rear of the door.

To lock from outside: To lock the car from outside, remove the ignition key, close both doors and check that the engine cover and front body access panels are secure. Arm the security alarm by pressing once the raised logo button on the transmitter key. See the Keys & Security Alarm section for further information.



Discharged Vehicle Battery

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 (see pages 67 - 68) and providing a 12 volt positive and negative supply to the auxiliary power posts. **The doors cannot be unlocked using the mechanical key if the CDL was used to lock the car.**

To lock the car with a flat or disconnected battery; or with a non-operational CDL system, use the key in each door exterior release button to mechanically disconnect each release button from the latch. This technique does not 'deadlock' the interior release handles, but does allow continued key access to the car until restoration of battery power.

Note: A door locked with the mechanical key cannot be unlocked using only the transmitter.

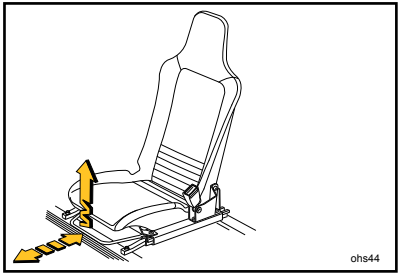
To deadlock the car with a flat vehicle battery, or without the use of the transmitter key; close and lock one door using the sill button, and for the second door, hold the exterior release button pressed in and depress the sill button before closing the door. **Access is now available only on restoration of electrical power.**

Lights On' Buzzer

A 'lights on' reminder buzzer will sound if the lights are on, the ignition is switched off, and the driver's door is then opened.

Safety Inertia Switch

When the engine is running, if the vehicle suffers a violent impact indicative of a crash, a safety inertia switch operates automatically to unlock the doors and turn off the fuel pump (see page 104).



Seats
Only the driver's seat position can be adjusted.

Forwards-backwards adjustment
Raise the lift bar beneath the front of the seat, and slide to the position required. Ensure that the catch is fully engaged after adjustment by attempting to slide the seat with the lift bar released.

⚠WARNING

Sit as far back from the steering wheel as is comfortable, whilst ensuring that full control can be maintained. Sitting too close to an airbag can result in SERIOUS INJURY OR DEATH if the airbag inflates.

Ensure that your chest is at least 25cm from the steering wheel.

Do not attempt to adjust the seat position whilst driving as this could adversely affect your control of the car.

Ensure that no persons or objects will be trapped when adjusting the seat.

SEAT BELT POSITIONING

Seat Belts
To engage: sit erect and fully back in the seat, take the buckle tongue in the outer hand, draw the belt through the top slide and lay over the body before pushing the tongue in to the buckle lock at the inboard side of the seat until a positive 'click' is heard.

Pull on the belt to check for correct latching and ensure that the belt fits snugly against the body with all the slack taken up by the reel. The belt should be worn low across the front of the pelvis, and across the chest and shoulder.

To release: The belts are released by pressing the red button on the buckle lock.

Seat Belts & Precautions

⚠WARNING

Ensure that the driver and passenger always wear seat belts and wear them properly. Not wearing a seat belt correctly increases the chance of serious injury or death in a crash, even with airbags.

On fastening the seat belt, ensure that no part of the belt is twisted, or is entangled in the door or seat mechanism.

Seat belts are designed to bear upon the bone structure of the body and should be worn low across the front of the pelvis, and across the chest and shoulder. Wearing the lap section of the belt across the abdominal area must be avoided.

Improperly positioning the seat belts can cause serious injury or death in a crash. Ensure the seat belts are correctly positioned before driving.

The shoulder portion of the belt must never be worn beneath the arm, or behind the back.

Pregnant women should always wear seat belts to protect both themselves and their unborn child. The lap belt portion of the belt should be kept as low as possible across the hips. A doctor should regularly be consulted as to the advisability of driving during pregnancy.

⚠WARNING

Each seat belt assembly is designed for use by one occupant of adult build, and should not be used by children unable to meet the requirements described on page 24.

Never use one belt around two people, or allow a child to be carried on a driver's or passenger's lap.

No modifications or additions should be made to the inertia reel assemblies or seat belts. Do not attempt to adjust the seat belt tension by altering the mechanism.

The seat belt should be replaced if webbing becomes frayed, contaminated, or damaged. Inspect regularly.

It is essential to replace the entire seat belt assembly if it has been used in a severe impact, even if damage to the assembly is not obvious. In situations where the airbags have been deployed, the front seat belt pre-tensioner systems must also be replaced, and the seat belt anchorage points rigorously checked.

No one should travel in a seat with an inoperative seat belt.

⚠WARNING

Not checking or maintaining seat belts can result in serious injury or death if the seat belts do not work properly when needed. Check the belts regularly and have any problem corrected immediately.

Inertia reel seatbelts

The standard fitment inertia reel seat belts allow forward movement of the upper body under normal driving conditions, but the belt reel will lock automatically whenever the car is subjected to braking, acceleration, or cornering forces, or on impact in a collision.

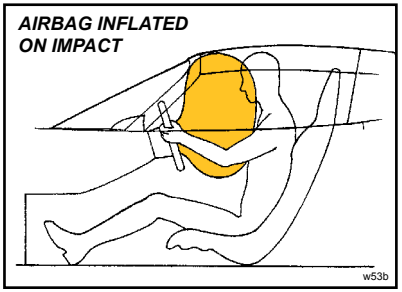
Reel locking will also occur if the car is tilted in any direction. In the event of a severe frontal impact sufficient to trigger the airbag system, a pre-tensioning device incorporated into each seat belt retractor, will operate to tighten the belt to increase occupant protection.

Seat belt tell tale 

There is a seat belt tell tale located within the instrument panel please see page 30 for full information and warnings.

Seat Belt Cleaning

Please see page 76 for information.



Airbag Safety System (If Fitted)

Also referred to as the SRS (Supplementary Restraint System).

A driver's frontal airbag is housed in the steering wheel, and a passenger's airbag is contained in the fascia. Airbag restraints are supplemental to the seat belts.

Airbags are designed to inflate when the car is involved in a moderate to severe frontal, or near frontal collision, and the force of impact is sufficient to warrant front seat occupant protection additional to that provided by the seat belts.

When triggered by an electronic crash sensor, each airbag inflates in a fraction of a second to provide protection for the occupant's upper body, and then deflates very rapidly to minimise any obstruction to the driver.

Note: The airbag system will deploy only in moderate to severe frontal and near frontal collisions, and is not designed to be triggered in rollover, rear or low speed frontal collisions, or in some types of side impacts.

In order to minimise the risk of severe injury or death, no matter how short the journey, both occupants should wear the seat belts at all times, irrespective of airbag fitment. An occupant who is properly restrained by a seat belt, will be in the best position for full effectiveness of the airbag.

Remember that seat belts, when correctly worn, provide the primary crash protection to the occupants, especially in collisions below the actuation threshold of the airbag system, and during types of accident which do not cause airbag deployment. See the preceding section on 'Seat Belts'.

⚠WARNING

You can be killed or seriously injured in a crash if you aren't wearing your seat belt - even with airbags. Wearing your seat belt during a crash helps reduce your chance of hitting things inside the car or being ejected from it.

⚠WARNING

Airbags are designed to work with seat belts, but don't replace them. The airbags are designed to deploy only in moderate to severe frontal and near frontal crashes, and will offer little or no protection in roll-over, rear or low-speed frontal crashes, or in many types of side impact.

Airbags inflate with great force, in a fraction of a second. If you're too close to an inflating airbag, as you would be if you were leaning forward, you could be killed or seriously injured. Seat belts help keep you in the correct position before and during a crash. Sit as far back from the steering wheel as is comfortable, whilst ensuring that full control can be main tained. Ensure that your chest is at least 25 cm from the steering wheel.

Airbags plus lap and diagonal seat belts offer the best protection for adults, but not for young children and infants. Neither the car's standard seat belt system nor its airbag system is designed for them. Young children and infants need the protection that a child restraint system can provide. See 'Child Restraints' on page 24.

⚠WARNING

If an object is between a person and an airbag, the airbag might not inflate properly or it might force the object into that person causing death or serious injury. The path of an inflating airbag must be kept clear. Don't put anything between an occupant and an airbag, and don't attach or put anything on the steering wheel hub or on or near any passenger fascia air bag covering.

Do not lean against the inside of the doors.

Always hold the steering wheel by the outer rim; never rest your hands on the airbag panel, or a hand injury could be incurred in the event of an airbag deployment.

Never transport heavy objects on or in front of the passenger seat.

Give your passengers all of the information in this section.

Do not attempt to de-activate the airbags, or make any other changes to the wiring or components of the airbag system.

⚠WARNING

Do not undertake any wiring for electrical accessory equipment in the vicinity of the airbag wiring harnesses; doing so may disable the airbag system, or cause its unintended deployment which could cause death or serious injury.

Airbag Tell Tale 

There is an airbag tell tale located within the instrument panel please see page 30 for full information and warnings.

⚠WARNING

If the airbag tell tale does not light up as the ignition is turned on, or remains lit for more than a few seconds, have the fault rectified immediately by your Approved Lotus Dealer. Ignoring the tell tale could result in death or serious injury if the airbags or belt pre-tensioners do not operate when needed.

Airbag Deployment

Airbags inflate in a fraction of a second to form a cushion for the driver's and front passenger's upper bodies. The bags then deflate rapidly to minimise any obstruction to the driver, and reduce any danger of suffocation.

Seat Belt Pre-tensioners

Initiated at the same time as the airbags is a pre-tensioning device on each front seat belt reel assembly, which applies a tightening force to the belt reel to remove any slack from the belt.

⚠WARNING

Airbag system components remain hot after inflation. Do not touch them after inflation.

Replacing Airbag System Components

After airbag deployment, the airbags, seat belt tensioners and electronic control unit must be replaced by a Lotus dealer or other suitably qualified organisation.

⚠WARNING

For up to 20 seconds after the ignition has been turned off and the battery disconnected, an airbag can still inflate if improper servicing occurs. You can be injured if you are close to an airbag when it inflates.

Airbag system components should be serviced only by an authorised Lotus dealer or other suitably qualified person.

Further information on the airbag system can be found on stickers on the sun visors.

⚠WARNING

For important recommendations on the use of child restraints, please refer to 'Child Restraints' in this handbook.

A crash can damage the restraint systems in your car. A damaged restraint system may not properly protect the person using it, resulting in serious injury or even death in a crash. To help make sure your restraint systems are working properly after a crash, have them inspected and any necessary replacements made as soon as possible.

The safe temperature operating range of the airbag system is between -20 and +85°C (-4 and +185°F). The car should not be operated outside of this range, as the airbag system may not correctly deploy. The driver or passenger may be killed or injured by incorrect airbag deployment.

Child Restraints

⚠WARNING

Lotus strongly recommends that children are not carried in an Elise or Exige S due to the risk of death or serious injury if the child is too close to the dashboard when the airbag inflates.

Statistics show that children are safer when properly restrained in the back seats of cars, an option unavailable on the Elise or Exige. In addition, your car is equipped with a passenger's airbag which poses serious risks to children - particularly infants and small children. If, nevertheless, a child is to be carried in the car, the following notes are provided for guidance:

When a child is of a physical size whereby the standard fitment lap and diagonal seat belt will fit satisfactorily, with the belt positioned over the collar bone and against the centre of the chest, the standard seat and seat belt should be used. If the belt touches or crosses the child's neck, the child should NOT be carried in the Elise/Exige.

⚠WARNING

Children should not be carried in an Elise or Exige S unless they are large enough to be able to use the standard seat belt properly without any child seat or booster seat.

Child restraint systems (other than belt positioning booster seats) are designed to be secured in the car seat by the lap belt portion of the lap/shoulder belt. READ ALL INSTRUCTIONS THAT ACCOMPANY THE CHILD RESTRAINT OR BOOSTER SEAT.

⚠WARNING

Infants who are unable to sit up by themselves unsupported, should NOT be carried in an Elise or Exige S.

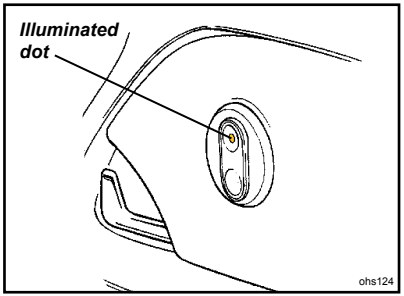
Never put a rear-facing child seat in the passenger seat of an Elise or Exige S. If the airbag inflates, it can hit the child or the back of the child seat with enough force to kill or very seriously injure an infant.

There is no provision to switch off or disable the passenger airbag.

Children who are not properly restrained can be killed or seriously injured in an accident.

Behaviour

It is essential that the behaviour of any child travelling in the car is such that they remain correctly seated and belted, and it is the responsibility of the driver to ensure that this occurs.



Electric Door Windows

Switches are mounted in the door panels; the 'up' button is illuminated if the lights are switched on. The windows are only operative with the ignition switched on.

To lower: Press the lower, domed end of the switch. Release the switch to stop window movement.

To raise: press the upper, dished end of the switch. Release the switch to stop window movement.

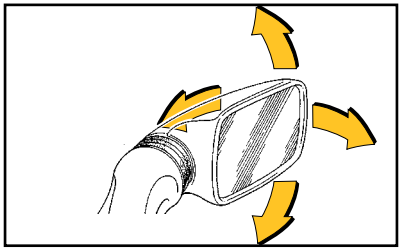
⚠WARNING

Do not leave children unattended in the car with the ignition key in position, to guard against injury caused by careless window operation.

⚠WARNING

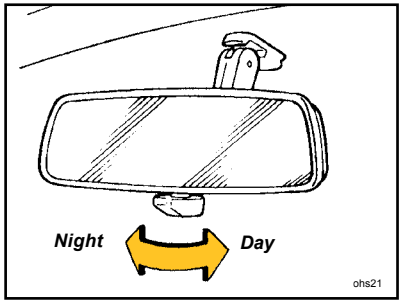
Before closing a window, always check that no person or object will be trapped; careless window operation could be dangerous, especially to children. Ensure that all passengers are also made aware of this danger.

In hot weather conditions, to reduce the potential for suffocation and/or heat exhaustion, do not leave children or animals in a parked car with the windows fully closed.



Door Mirrors

Mirrors are fitted on both driver's and passenger's doors, and may be adjusted manually by direct manipulation of the mirror housing. An internal spring mechanism allows the complete mirror to swing forwards or backwards on accidental contact to reduce possible damage.

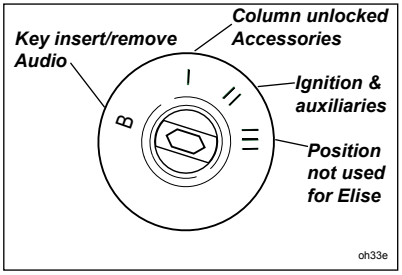


Interior Rear View Mirror

The mirror can be dimmed to reduce headlamp glare from following vehicles by turning the lever on the underside of the mirror towards the left. Turn towards the right for daytime use.

⚠WARNING

Convex mirror glasses are used to widen the field of vision, but will make objects seem smaller and farther away than when viewed through a flat mirror. Take care when judging distances and approach speeds until familiarity has been gained.



Ignition Switch/Steering Lock

Located on the right hand side of the steering column. With the key out of the switch, the steering column is locked, and the following electrical circuits will function:

- Locking and alarm system.
- Horns.
- Hazard warning lamps.
- Sidelamps and headlamps.
- Interior lamps.
- Automatic operation of cooling fans and re-circulation pump.

B With the key inserted into the switch at position 'B', the audio system is available in addition to the above.

I To unlock the steering, turn the key clockwise to the 'I' position. If the key is reluctant to turn, wriggle the steering wheel to ease the load on the steering lock. At this 'accessories' position, the following electrical circuits will function in addition to those above:

- Door windows.
- Windscreen wiper and washer.
- Interior fan.
- Cabin auxiliary power socket.
- Automatic only: P - Park is automatically selected.

II Turn further clockwise to the 'ignition' position to activate all remaining electrical systems (note that some circuits require the engine to be running). Refer also to automatic immobilisation details on page 15.

III ***Exige:*** Ensure the key is fully pushed in the lock and turn further clockwise to 'III' against spring pressure to operate the starter motor.

Elise: This key position is not used. To operate the starter, press the 'Start' button in the switch panel outboard of the steering column (see page 63).As soon as the engine starts, allow the key to return to position 'II' (Exige) or release the starter button (Elise).

⚠WARNING

Do not operate the starter button without first referring to the later section 'Starting Procedure & Running-In' (page 62).

To stop the engine, turn the key back to 'I'. Note that in order not to compromise battery power during engine starting, all electrical functions operative at position 'I', will drop out whilst the engine is being cranked. To remove the key, turn fully anti- clockwise to 'B' and withdraw. The steering column lock will be activated when the key is withdrawn but may not engage until the steering is turned.

NOTICE: To avoid draining the battery DO NOT leave the ignition switched on for long periods without the engine running.

For security reasons, and to guard against battery drain, always remove the key when leaving the car.

⚠WARNING

Do not push or tow the car unless the key is first used to unlock the steering column and is then left in the lock. Withdrawing the key will cause the steering to lock.

Never remove the key from the ignition switch or turn off the ignition whilst the car is moving. Withdrawing the key will cause the steering to lock and may cause an accident resulting in serious injury or death.

To reduce the risk of danger to a child remaining in the car, always remove the key when leaving a parked car.

Speedometer
Displays road speed in either MPH or km/h according to market.

Tachometer
Indicates engine speed in revolutions per minute. Three red tell tale lamps in the tachometer illuminate in sequence at high rpm (dependant of gear engaged) to warn that the maximum engine speed is being approached, see page 28 for further information.

The Elise maximum continuous engine speed is limited to 6,800 rpm once normal running temperature is reached. Very short bursts up to 7,000 rpm are allowed during maximum acceleration through the lower gears (Elise) and 7,100 rpm (Elise S).

The Exige maximum continuous engine speed is limited to 6,600 rpm once normal running temperature is reached. Very short bursts up to 6,800 rpm are allowed during maximum acceleration through the lower gears (or 7,200 rpm in Sport mode).

A 6,400 rpm rev limit is imposed on a cold engine to protect against possible damage. The use of wide throttle openings and/or high rpm before normal running temperature has been reached will result in premature wear and should be avoided.

NOTICE: The use of wide throttle openings and/or high rpm before normal running temperature has been reached should be avoided. The engine management system graduates the maximum engine speed for a cold engine, in order to reduce possible damage and wear from a delinquent driving style.

Do not run the engine continuously at its maximum speed.

The engine is not protected from over speeding caused by erroneous or premature down changing, the consequences of which could be catastrophic failure not covered by the New Vehicle Warranty.

Use of maximum engine speed and this tell tale facility should be restricted to occasions when maximum acceleration is required. Overuse will compromise powertrain service life.

Recalibration of Instrument Display
The speedo and tacho needle 'zero' positions will occur during a three second period following ignition switch on, but if a needle becomes 'stranded' outside of the re-calibration range, the procedure listed on the following page should be followed.

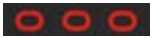
Recalibration Procedure
With the vehicle stationary;

- Remove fuse C3 (For Elise, located beneath passenger fascia; see page 107) or fuse F38 (For Exige Manual) or fuse F20 (For Exige Automatic), located in the main fusebox; see page 106 or 130)
- Open driver's door;
- Press and hold trip reset button on column shroud;
- Turn on ignition;
- Turn off ignition and refit fuse.

Tell Tale Lamps
In order to check that the warning systems are operative, all the tell tale lamps (except the 'security' tell tale; see Vehicle Security Alarm) should light for about six seconds following ignition switch on. If any lamp should fail to light, it is possible that the bulb or warning circuit may be faulty; see your dealer without delay.

If a tell tale light fails to illuminate following ignition switch on, flashes constantly or is permanently lit whilst driving, then this may indicate a fault in the operation of the system concerned.

Do not ignore any illuminated warning lights; contact your authorised Lotus dealer or repairer as soon as possible.

 **High RPM Tell Tales**
Warns that the maximum engine speed is being approached in the current gear. As maximum rpm is approached the tell tales will light in the following left to right sequence:
- one red light
- two red lights
- three rapidly flashing lights

When exploiting maximum acceleration, gearchange upshifts should be made as soon as the three flashing lights appear.

NOTICE: Use of maximum engine speed and this tell tale facility should be restricted to occasions when maximum acceleration is required. Overuse will compromise powertrain service life.

 **Left/Right Hand Turn Indicators**
Illuminates when the turn indicators are operating or hazard lights are turn on. If the indicators stay on or flash fast, check the operation of the indicator lamps immediately.

 **Rear Fog Lamp Tell Tale**
Illuminates whenever the rear fog lamps are operating (see rear fog lamp switch).

 **Side lamp Tell Tale**
Illuminates whenever the side lamps are operating, and will remain illuminated when the dip and main beams are activated.

 **Main Beam Tell Tale**
Illuminates whenever the headlamp main beams are operating.

 **120 Km/h Tell Tale** (Market specific)

 **Security Alarm Tell Tale**
The security tell tale is sited in the speedometer face, and indicates the status of the immobiliser and alarm. For full details of the vehicle security system, refer to the earlier section 'Vehicle Security'.

 **'Sport' Mode Tell Tale**
Illuminates whenever 'Sport' mode has been selected (see pages 47 - 59).

 **'Race' Mode Tell Tale**
Illuminates whenever 'Race' mode has been selected - Exige selected models only (see pages 50 - 53).

LCD Display
Displays clock, coolant temperature, Fuel gauge, odometer, trip distance and alternative speed indicator (see page 32).

Electrical Fault Tell Tale
The Engine Control Module (ECM) is also used to manage various related electrical systems, and is able to detect certain types of fault, which may or may not be apparent to the driver. If such a fault is detected, which has no detrimental effect on exhaust emissions (see MIL tell tale information) this tell tale will light for the first 30 seconds after turning on the ignition. Consult your dealer without delay to have the fault diagnosed and rectified.

Lotus Dynamic Performance Management (Lotus DPM)
Whilst driving the tell tale may flicker amber, indicating that the Lotus DPM has been triggered and electronic intervention is taking place; the tractive limit has been reached and driving style should be modified accordingly.

If however the warning lamp illuminates constantly, a fault has been detected, and Lotus DPM will not be enabled and you should see your dealer without delay. (See page 46).

Lotus Dynamic Performance Management (Lotus DPM) 'Off'
This lamp will glow amber if the Lotus DPM has been manually switched off.

⚠WARNING
(Lotus DPM) should always be active when driving on public roads in normal conditions.

Low Fuel Level
Will illuminate when only a single segment of the fuel gauge bar graph remains, representing approximately 5 litres the amber tell tale will flash. Refuel at the next opportunity (see pages 32 and 67).

Cruise Control
Illuminates whenever cruise control is in standby mode or enabled (see page 36).

Anti-lock Braking System (ABS)
If the lamp remains lit, or comes on whilst driving, a fault in the ABS is indicated. However the vehicle retains conventional servo-assisted braking.

⚠WARNING
Heavy braking, or braking on slippery surfaces may cause one or more wheels to lock and result in reduced steering response and possible loss of control. The car may continue to be driven with appropriate care and anticipation, but should be checked and repaired at the earliest opportunity.

Malfunction Indicator Lamp (MIL)
The engine Malfunction Indicator Lamp (MIL) is provided to warn the driver that the engine management system has detected a fault which may result in increased noxious emissions from the exhaust. In order to minimise emissions and potential engine damage, various operational limitations may automatically be applied.
i) If the MIL lights continuously whilst driving, immediately reduce speed and adopt a moderate driving style. Seek Lotus dealer advice without delay and avoid all unnecessary journeys.
ii) If the MIL flashes, an engine misfire has been detected which is likely to cause overheat damage to the catalytic converter.
Slow down immediately and be prepared to stop.

- If the MIL then stops flashing, and is lit continuously, proceed with caution and seek dealer advice.
- If the MIL continues to flash, stop the vehicle as soon as it is safe to do so, and switch off the engine. Seek Lotus dealer advice.

⚠WARNING

Continuing to drive the car with a flashing MIL may cause an engine bay fire.

NOTICE: Continuing to drive the car with a flashing MIL may cause overheat dam age to the catalytic converters and sur-rounding bodywork.

Tyre Pressure Monitoring System
(If fitted)

Also referred to as TPMS, for limited markets only. Will indicate if any tyre pressure falls below 80% of the recommended value.

Oil Pressure

Illuminates to warn of low oil pressure and should extinguish as soon as the engine is started. If the lamp fails to go out after engine start up, or comes on when the engine is running, stop the engine immediately or when it is safe to do so and do not restart until the cause has been investigated and rectified.

⚠WARNING

Continuing to run the engine with the oil tell tale lit could result in loss of car control and a crash. You or others could be killed or seriously injured.

NOTICE: Continuing to run the engine with the oil tell tale lit could cause major engine damage or seizure.

Airbag (if fitted)

The tell tale will illuminate for approximately 6 seconds following ignition switch on. If the lamp remains lit, or comes on at any other time, a fault in the airbag or pre-tensioned seat belt system is indicated, which should be rectified without delay by your Lotus dealer.

⚠WARNING

If the airbag tell tale is lit, the airbags may not inflate correctly in a crash, or may inflate without warning; or the pre-tensioning seat belts may not perform correctly. To reduce potential injury to driver and passenger, the airbag system should be repaired as soon as possible.

Battery Charging

If it lights any time when the engine is running, the battery is not being charged, which may be due to a broken auxiliary drive belt, or an electrical fault. Stop the car as soon as safely possible and turn off the engine. The auxiliary belt also drives the engine water pump, without which function the engine will overheat very quickly.

⚠WARNING

Do not, under any circumstances, allow the battery to become completely discharged by continuing to drive, as this may result in the vehicle being stranded in a dangerous position.

Seat Belt

The lamp will flash for about 6 seconds following ignition switch on as a reminder that both driver and passenger should always wear their seat belts, no matter how short the journey. The lamp will continue to flash if the driver's seat belt is not fastened accompanied by a warning buzzer if the vehicle speed exceeds 13mph (20kph).

The tell tale and buzzer will remain active until the driver's seat belt has been fastened. Variations may apply dependent on local market legislation.

Brakes

This tell tale will illuminate with the ignition switched on whenever the parking brake is applied. Each time the parking brake is released, check that the tell tale is extinguished.

With the parking brake released, if the tell tale should light at any time after the check period, stop the car immediately, as the circuit has detected a dangerously low level of brake fluid in the master cylinder reservoir. The car should not be driven until the fault has been identified and rectified.

⚠WARNING

If the tell tale remains lit when the parking brake has been released, the footbrake may not be working properly. Stop the car immediately if it is safe so to do, and do not continue until the fault has been rectified. Continuing to drive could cause a crash and result in death or serious injury.

Coolant Temperature

The initial tell tale illumination colour is blue until the engine coolant reaches normal operating temperature at which time the tell tale will extinguish. The tell tale will then illuminate red in colour if coolant temperatures exceeds 108°C (Elise) or 113°C (Exige) in order to prompt closer monitoring of high temperatures. See page 32 for further information.

Transmission Malfunction Indicator
(Automatic Exige S only)

A bulb check will light the lamp for about 3 seconds following ignition switch on.

Warning Modes

Oil Temperature: The Transmission Malfunction Indicator lamp will flash if the temperature of the transmission oil becomes too high and the vehicle will default to a limited power mode, reduce vehicle road speed until the lamp extinguishes.

Transmission Fault: The Transmission Malfunction Indicator lamp will illuminate continuously if a fault is detected within the transmission or an associated component, reduce vehicle road speed immediately and adopt a moderate driving style.

Note: Even if the Transmission Malfunction Indicator lamp extinguishes, proceed with caution and seek dealer advice without delay and avoid all unnecessary journeys.

Emissions Fault: If a fault is detected within a transmission component which could affect the vehicle's emissions, then the engine Malfunction Indicator Lamp (MIL) will also illuminate continuously in conjunction with the Transmission Malfunction Indicator lamp.

See page 29 for further information regarding the driving style that should be adopted if the MIL lamp is illuminated or flashing.

NOTICE: Continuing to drive with an illuminated Transmission Malfunction Indicator lamp may cause damage to the transmission.

Note: Depending upon the cause, frequency and duration of the tell tale illumination it may be necessary to renew the transmission fluid even if all monitored transmission components are operating correctly.

LCD DISPLAY
(Manual vehicle display shown)
ohs188

LCD DISPLAY

Also see page 50 - 55 with additional display information on the Exige factory fitted 'Race Pack' option.

A liquid crystal display (LCD) panel is located within the instrument panel in order to display fuel level, coolant temperature, total mileage, trip functions and alternative speed. The panel is blank until the ignition is switched on.

Auto Shutdown
After 20 minutes of inactivity and with the key in the ignition off position (see page 26), the (LCD) display will automatically power itself down. The display will power up when the ignition is turned to the on position or if certain driver operated controls are activated such as the side lamps (The alarm tell tale will still continue to illuminate even if the pack has powered down).

Fuel Contents Display
An indication of the level of fuel in the tank is displayed in the form of a bar graph to the right hand top of the (LCD) panel. When completely full (approximately 43.5 litres or 9.6 U.K. gallons), the display will display six red segments. As the fuel level falls, the segments will gradually disappear from the right hand side of the display. The remaining segments represent an approximation of the remaining fuel.

When only a single segment remains, representing approximately 5 litres of fuel remaining, the amber fuel tell tale will flash. Refuel at the next opportunity.

NOTICE: Do not allow the tank to run completely dry, as this could damage the catalytic converter and fuel pump. Any such consequence would not be covered by the New Vehicle Warranty.

Coolant Temperature Display
The engine coolant temperature is not displayed until it reaches 70°C. At that time the coolant temperature tell tale (blue in colour during engine warm up) will extinguish and the temperature display will appear at the upper left hand of the (LCD).

If the displayed temperature exceeds 108°C (Elise) or 113°C (Exige), the coolant temperature tell tale will illuminate red in colour in order to prompt closer monitoring of high temperatures and will continue to display coolant temperature up to 120°C.

Note: The running temperature will fluctuate a certain amount as the operating conditions change, and during periods of idling or in heavy traffic, the temperature may rise to over 100°C, with the cooling fans switching on at half speed at approximately 98°C and at full speed at approximately 103°C.

As the pressurised cooling system has a boiling point of over 120°C, only if the temperature approaches this level need there be any cause for concern. If this should occur, allow the engine to idle for a few minutes whilst monitoring the temperature, and if it continues to rise, switch off and seek qualified assistance.

NOTICE: After a heavy snowfall, ensure that the radiator cooling outlet grilles in the front body are cleared of snow before driving the car, or overheating may occur.

Odometer
An odometer (total distance recorder) reading is displayed at the bottom right hand corner of the panel, and is calibrated in the same units (miles or kilometres) as is the speedometer.

Trip Distance/Speed Display/Odometer
Note: The display will always default to the alternative speed display option when the ignition is initially turned on regardless of the last option selected during the previous drive cycle. The bottom right portion of the LCD panel may be cycled through the following displays:

- Trip distance.
- Digital road speed in alternative units to those indicated by the analogue instrument (either mph or km/h).
- Odometer.

To cycle, one at a time, through these three displays, briefly press the instrument panel illumination button on the right hand side of the steering column shroud, see page 37.

Note that this button also adjusts the brightness of the instrument and heater/air conditioning and panel illumination if held pressed when road speed is selected.

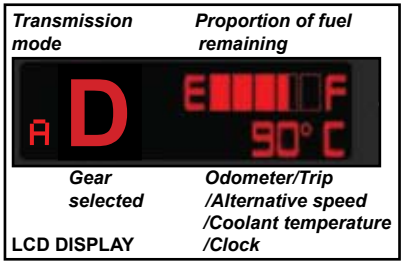
Trip distance: Units displayed are common to the analogue speedometer scale, and range from 000.0 to 999.9.

To reset to zero; when the trip function is displayed, press the button on the column shroud for longer than 1 second.

Clock
Time clock setting: To adjust the 24 hour time clock cycle press the instrument panel illumination button until the Odometer reading is displayed*. Press the panel illumination button on the column shroud again for longer than 1 second. The hour display will then flash.

- Repeated brief presses of the button will increment the hour figure. Pressing the button for longer then 1 second will store the hour setting and start the minute display flashing.
- Further brief button presses will increment the minute figure.
- When the correct time is displayed, press the button for longer than 1 second to store the setting and start the clock.

* Note: For automatic vehicles the clock needs to be displayed to adjust settings.

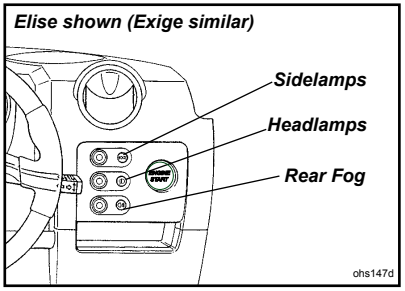


LCD Display for Automatic Vehicles
The engine coolant temperature and time clock display are incorporated into the driver controllable display options on the bottom right hand of the LCD screen.

For automatic vehicles the shift mode and gear selection (when in manual mode) are displayed on the left hand side of the screen.

Initially the clock is displayed when the key is inserted into the ignition; this is replaced by the alternative speed setting once the key is turned to position II.

Depressing the panel illumination button for a period of less than 1 second will cycle through the various LCD panel display options.



Lighting Switches

Sidelamp switch: Press to turn on/off, the instrument panel and switches will also illuminate. Note that the headlamps must be switched off before the sidelamps can be switched off.

Exige only: The light switches are illuminated with the ignition on and become brighter when pressed.

Headlamp Switch: Press to turn on/off together with the sidelamps (if not already selected). The L/H steering column lever switch is used to select main or dip beam. Pressing the switch a second time will switch off the headlamps, but leave on the sidelamps.

Rear Fog Lamp Switch - If Fitted: Press to turn on/off (once the headlamps are activated). Note that the switch will default to off whenever the headlamps or ignition are switched off.

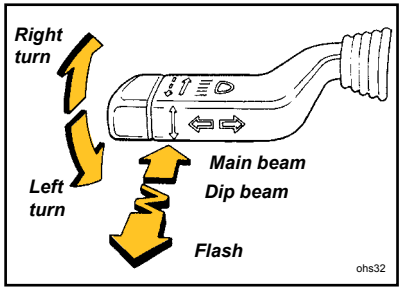
Daytime Running Lamps (DRL)

When the engine is started, the front and rear sidelamps will automatically be activated as daytime running lamps, with the front sidelamps operating with an increased intensity. When the ignition is turned off, the DRLs will switch off automatically unless manually selected.

If the sidelamp switch is activated whilst the engine is running the front DRLs will revert to their sidelamp functionality and operate with a reduced intensity.

Lights On' Warning

A 'lights on' reminder buzzer will sound if the lights are on when the ignition is switched off and the driver's door is opened.



Headlamp Dipswitch/Flasher/Indicators

Main beam: Push the lever furthest forward, away from the steering wheel, (Main beam can only be activated if the headlamps are illuminated).

The main beam tell tale lamp in the instrument panel illuminates when the main beam is operating.

Dip beam: Pull the lever towards the steering wheel.

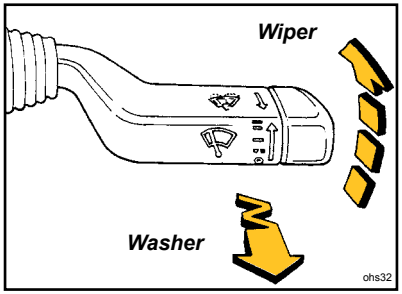
Headlamp flasher: Operative at all times. Pull the lever towards the steering wheel against spring pressure, the headlamp main beams will illuminate.

Note: When main beam is selected, the dip beams also remain lit. Cars equipped with optional auxiliary lamps operate

automatically in conjunction with the headlamp main beams.
Turn Indicators: Operative only with the ignition switched on. Move the lever down to indicate a left hand turn, and up for a right hand turn.

The switch will be cancelled when the steering wheel is returned to the straight ahead position.

For convenience, when signalling a lane change, lightly pressing the switch up or down will allow its return under spring action.

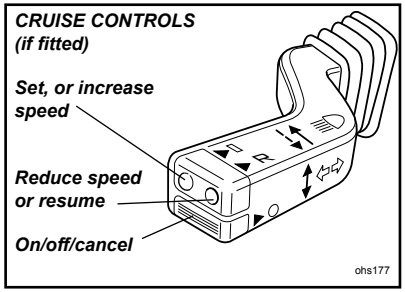


Windscreen Wiper/Washers
Windscreen Wiper: Controlled by the up/down position of the lever switch, to operate:

- Move fully upwards for quick wipe.
- Select for normal wiper operation.
- Intermittent wipe. The wiper will make one sweep about every five seconds.
- Moved fully down, the wiper is switched off.

Windscreen Washer: Pull the control lever towards the steering wheel to operate the washer jets and the windscreen wiper blade.

When the switch is released, the wiper will continue for a further four sweeps.



Cruise Control (if fitted)

⚠WARNING

Use cruise control only when conditions are favourable; on straight, dry, open roads with light traffic.

The three operational states of cruise control are:
- Off.
- Enabled (but inactive).
- Active

To enable cruise control: The system will always default to 'off' whenever the ignition is turned off. To enable cruise control, turn on the ignition, and press the on/off/cancel switch; the tell tale in the instrument panel will light to confirm that the system is enabled (although no speed has yet been set). Alternatively, this operation

may be combined with that for activation, by pressing the on button followed by the set button.

To activate cruise control
With the system enabled, drive the car to the desired cruising speed and press once the 'I' end of the rocker switch with the raised pip. The accelerator may now be released, but the set speed will be maintained (road gradient and winds permitting). The accelerator may be used to increase speed temporarily without affecting the setting.

Note: The system cannot be activated below 28 mph (45 km/h) or above 130 mph (210 km/h), or in first or second gear for either manual or automatic vehicles.

Changing the cruise setting
Whilst cruise is active, the speed setting can be adjusted by:

- Manually accelerating or braking to the desired new speed, and then press the 'I' switch once to reset.
- Holding down the 'I' or 'R' buttons to accelerate or slow the car to the desired new speed. On release of the button, that speed is set.
- Repeated short presses of the 'I' or 'R' buttons to increase or decrease the setting by increments of 1 km/h.

Deactivation of cruise control
Cruise control will automatically deactivate by any of the following actions:

- Depression of the brake or clutch pedal.
- Automatic transmission selects either second or first gear (in either automatic or manual sequential gear selection mode).
- The on/off/cancel button is pressed once.

In any of these cases, normal manual speed control will be restored, but the system will remain enabled and the cruise control tell tale will remain illuminated.

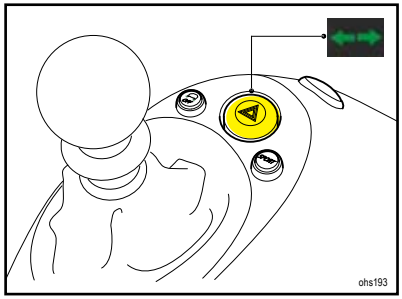
Resuming a set speed:
With the accelerator pedal released press the 'R' button once and the vehicle will automatically accelerate or decelerate to the last activated set speed.

⚠WARNING

The resume function should be used only if you want to return to, and are aware of, the set speed.

Set speed cancellation
The set speed will be reset to zero when you turn cruise control off (from the enabled state) or if the ignition is switched off.

To disable cruise control
Press the 'O' button once from the enabled state or twice from the active state and the cruise control tell tale will extinguish.

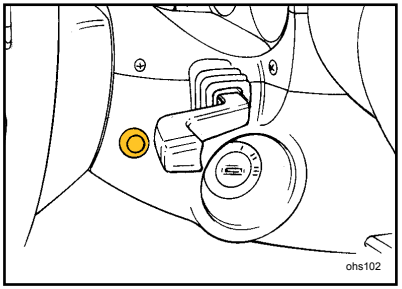


Hazard Warning Switch
Press to turn on, the switch will flash all the turn indicator lamps and the switch tell tale in unison. Press a second time to switch off.

The hazard warning lights should only be used when the vehicle has to be stopped on the highway in abnormal circumstances as a warning to other traffic. Use of the hazard warning lamps may be subject to local traffic laws, with which drivers should familiarise themselves.

⚠WARNING

If stalled or stopped for emergency repairs, move the car well off the road, switch on the hazard warning lamps and mark the car with other warning devices as available to reduce the risk of a collision.



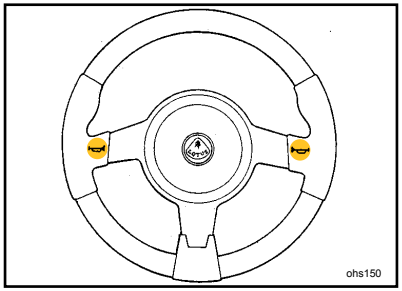
Instrument Panel Illumination

A small button is provided on the right hand side of the steering column shroud to adjust the brightness of the instrument illumination. Repeated brief button presses will cycle through the various LCD panel displays in the instrument panel until road speed is selected (also see page 27 -33).

To enter brightness mode, hold the button pressed, and the brightness will cycle through the available range. Release the button at the desired setting.

Note: An EP (Engine Protection) Valve Override Switch (If fitted) is located on the left hand side of the steering column.

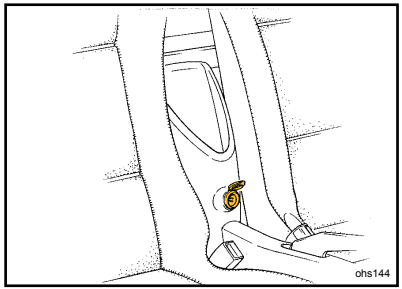
If fitted please see page 55 for further information.



Horn

The horn, which functions at all times, is operated by a button embossed with a bugle symbol in each of the steering wheel horizontal spokes.

Be aware that non-essential use of the horns may be restricted by local legislation with which drivers should familiarise themselves.



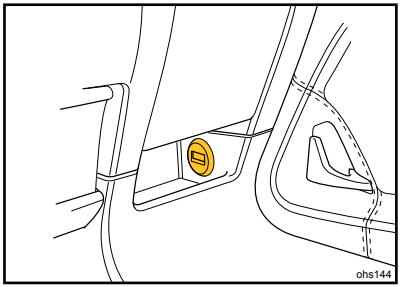
Auxiliary Power Socket - ***(12 Volt DC)***

An auxiliary power socket is fitted in the centre trim shroud on the rear bulkhead. The socket is operative at all times, and is provided with a protective hinged flap.

The socket allows the use of a standard cigarette lighter element or other electrical accessories requiring this type of fitting. The maximum current draw should not exceed 15 amps.

⚠WARNING

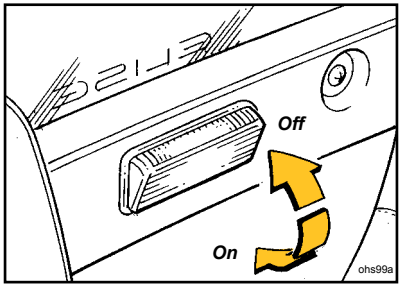
Do not leave small children unattended in the car since careless interference with the power socket could be dangerous.



Auxiliary Power Socket - *(5 Volt DC)*

An additional USB charging port is fitted in the passenger storage pocket and is active with the key in the ignition.

The socket allows electrical accessories to be charged or powered that can use a USB type adaptor lead. The maximum current draw should not exceed 1 amp.



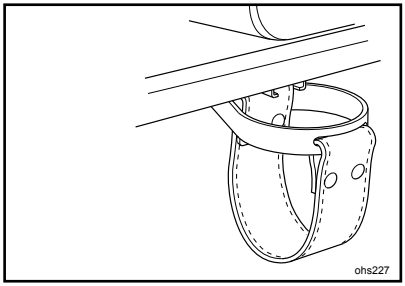
Courtesy Lamp

The interior lamp is sited centrally in the rear bulkhead trim.

Lens rocked upwards: lamp is switched off. Use this position only temporarily as required. Arming the security alarm system with the lamp switched off may exclude the doors from activating the alarm.

Lens central: lamp is switched on with or without ignition.

Lens rocked downwards: a courtesy mode applies; the lamp is illuminated whenever a door is opened, and goes out when both doors are closed.



Cup Holder

On cars so equipped, a cup/can holder is stowed beneath the centre of the fascia and may be drawn out on a slide when required. To stow, push forwards.

Audio Equipment
Operating instructions for the unit fitted are contained in a separate booklet supplied by the equipment manufacturer.

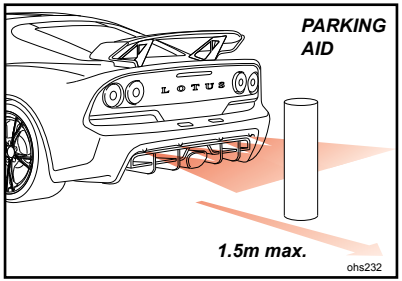
Aerial: An analogue di-pole type aerial is routed inside the body for optimum performance and to protect against vandalism and accident damage.

Speakers (if fitted): Two rear speakers, with 200W peak, 50W RMS, are mounted at each side of the cabin rear bulkhead trim panel. Front speakers, fitted in the trim panel at each end of the fascia are rated at 75W peak, 15W RMS.

Code Protected audio units: Some audio equipment use a four digit security code as a theft deterrent. If the power supply to the set is interrupted, the unit cannot be used again until the code is entered.

The code number should be recorded on the radio ID card and kept safely off board with the vehicle documents.

If the vehicle battery is disconnected, the code will need to be entered after reconnection.



Parking Aid (Exige Only If Fitted)
The reverse parking aid system assists with manoeuvring in tight parking spaces. Acoustic signals warn of a potential object behind the vehicle.

With the ignition in position II (see page 63) or engine running, the parking aid system will activate automatically once reverse gear is selected, and sound with an audible acknowledgement.

Four ultrasonic sensors in the rear diffuser then search for objects at bumper height within a detection zone of around 1.5 m beyond the rear of the car.

When within this range, an intermittent beeping will be heard, which increases in frequency as the distance is reduced, becoming a continuous tone at around 300 mm. Be aware that the sensitivity of the system will vary according to the size, position and material/density of an object.

Take time to familiarise yourself with the parking aid beeping frequency and the actual distance being detected before fully utilising this system.

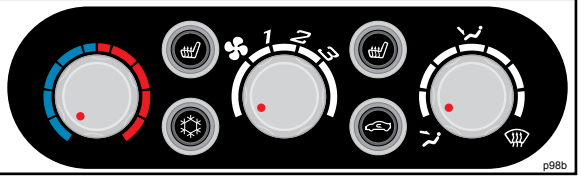
⚠WARNING

Be aware that these features are only aids to parking, and are no substitute for vigilant all-round observation when reversing. The driver is at all times responsible for safe manoeuvring.

The parking aid sensors have blind spots and may not detect small or moving objects including children and animals, low or narrow posts, towing hitches and objects towards either side of the car.

To ensure full functionality, the sensors must be kept clean and free from snow and ice

INTERIOR CLIMATE CONTROL PANEL
(Manual Exige panel shown Elise & automatic Exige S similar)



HEATING, VENTILATION & AIR CONDITIONING

Note: The vehicle structure and the conceptual emphasis on minimal weight, have dictated heating and a.c. systems whose performance is sufficient for normal use in temperate climates.

In extreme environmental conditions, the operational limits of either system may be reached before the desired temperature, or rate of temperature change, is achieved.

Temperature Adjustment
Turn clockwise to increase the cabin air temperature, turn anti-clockwise to decrease the cabin air temperature.

Fan Speed Adjustment
Turn the switch clockwise to increase fan speed. Note that the fan operates only with the ignition switched on.

Heated Seats (If fitted)
Both the driver and passenger seat can be heated to maintain a constant temperature. Single touch switches will illuminate amber when depressed.

The seats will continue to be heated and the switch will remain illuminated until either the seat heater button is pressed for a second time or the igniton is switched off.

Please note that heated seat function will always default to 'off' at the next drive cycle.

Note: For automatic vehicles the heated seat switches (if fitted) are positioned either side of the heated rear screen switch located in the centre console.

Re-circulation (if a.c fitted)
The air supply for the interior climate system is drawn from the vehicle interior and from the exterior fresh air intake duct.

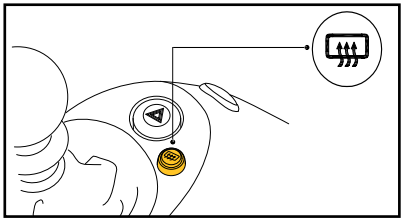
When the re-circulation button is pressed, the fresh air intake port is closed down to provide 90% re-circulation air supply to the cabin interior.

The re-circulation facility should be used when maximum refrigeration is desired. The tell tale in the switch button will light up amber when the circuit is active.

Air Conditioning (if fitted)
The left hand press button selects air conditioning, but the following conditions must first be met before the system will operate:

- The engine must be running;
- A fan speed must be selected;
- Ambient temperature must be above 3°C.

With a fully cold temperature setting, refrigerated air will be supplied. For dehumidified air, select air conditioning in conjunction with a warm temperature setting. The tell tale in the switch button will light up amber when the circuit is active.



Heated Rear Screen (HRS) Exige Only

Located in the centre console, the switch will illuminate amber with the ignition on and will increase in brightness when pressed demisting the rear screen. The HRS will turn off after the switch is pressed a second time, if the ignition is switched off or automatically after a ten minute period has elapsed.

Full Defrost Performance

For maximum defrost performance, turn the distribution knob fully clockwise and select maximum temperature and fan speed. For optimum demisting in ambient temperatures above +3°C (38°F), switching on the a.c. will help de-humidify the air directed to the screen.

Ventilation Shut-Off

To close off the ventilation, which you may want to do in heavy traffic to reduce fumes coming into the car, select re-circulation, turn off the fan, turn the distribution control fully anti-clockwise to the face level vent position, and manually shut off each of the face level vents.

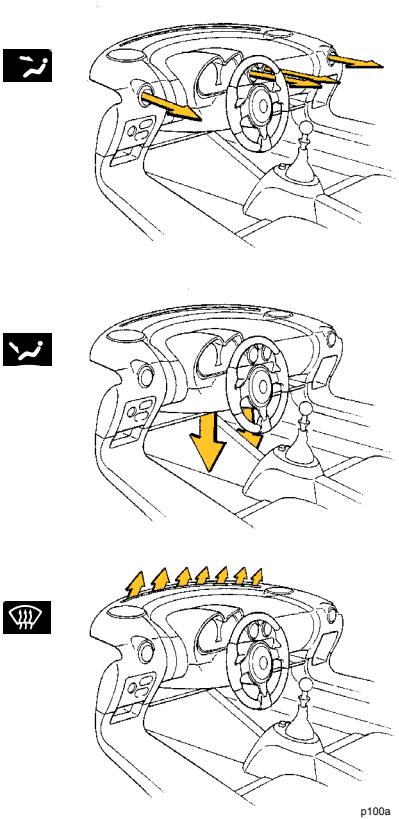
To ensure that the a.c. system is kept in good condition, and the compressor lubricated, it is recommended to select air conditioning at least for a few minutes every week

Air Distribution

Face level: Turn the control knob fully anti-clockwise. Air flow is directed to the face level vents, each of which can be turned to adjust volume and direction.

Footwell: As the control is turned clockwise from the face level vents an increasing proportion of airflow is directed towards footwell vents.

Windscreen vents: As the control is turned fully clockwise an increasing proportion of airflow is directed to the windscreen vents. Select a warm temperature setting and a suitable fan speed.



p100a

Foot Pedals

⚠WARNING

Do not attempt to drive the car without suitable narrow soled, flat heeled footwear. Bare feet may inhibit the application of full pressure to the brake pedal, and adversely affect your control of the car. Bare feet could also suffer burns from sun heated metal surfaces in the car.

Footwell Mat

The carpets fitted in the footwells of the Elise/Exige are secured by two quarter turn fasteners at the rear, and Velcro strips beneath the front edge. Always ensure that the carpets are secured correctly, and never fit any loose mats on top.

⚠WARNING

It is essential that any floor covering in the footwell is properly secured. Loose mats can interfere with the operation of the pedals causing possible loss of control and a crash in which you or others could be killed or seriously injured.

Clutch Pedal

NOTICE: To avoid unnecessary clutch wear, do not, for more than a few moments, slip the clutch to 'hold' the car on a slope; apply the parking brake until ready to drive off.

The clutch pedal must be fully depressed during each gear shift.

Do not drive with the left foot resting on the clutch pedal, as rapid wear of the clutch components can result. A left foot rest is provided for comfort and convenience.

Footbrake

With a new car, or new brake system components, maximum braking efficiency will be achieved if, for the first few hundred miles, needless heavy braking is avoided.

Allow the brake pads and discs to 'bed in' fully before using the brakes to their full potential. Pedal effort will reduce as the brakes are bedded in, and as they are warmed from cold to normal working temperature. Note that the hard grade pad material may give rise to a certain amount of brake noise under some conditions; such noise is not harmful and does not affect the life or efficiency of the brakes.

After frequent hard use of the brakes, it is beneficial to the durability of the discs and pads if a cooling down period is allowed before the car is parked.

⚠WARNING

Ater driving through a ford or flood, some loss of braking response may be experienced until the brakes have dried out. As soon as it is safe to do so after such an encounter, apply the brakes until normal operation is restored. Failure to do so may result in an accident in which you or others may be killed or seriously injured.

The brake assistance servo uses vacuum supplied from the engine intake plenum, such that power assistance is available only when the engine is running. Never coast downhill with the engine stopped. If this situation should arise accidently, be aware that repeated application of the brakes will rapidly exhaust the stored vacuum supply, after which much greater pedal pressures will be required. This may adversely affect brake performance which could result in an accident in which you or others could be killed or seriously injured.

Anti-lock Braking System
The Anti-lock Brake System (ABS) is used to optimise brake performance in extreme conditions and reduce the potential for any wheel to lock up ensuring the vehicle can still be steered.

ABS is especially advantageous when braking on slippery road surfaces and in bad driving conditions, but it is important to realise that the ABS cannot increase the friction level at the road surface, it can only make optimum use of the grip available.

The minimum stopping distance is achieved by applying the brakes firmly and steadily, and allowing the ABS to modulate hydraulic pressure.

Hydraulic Brake Assist
Hydraulic Brake Assist (HBA) detects an emergency situation by the driver's determination to rapidly stop the vehicle by measuring the gradient of brake pressure build-up.

In case of insufficient brake pressure the (HBA) system increases pressure up to the ABS activation threshold to ensure the shortest stopping distance possible.

Electronic Brake Distribution (EBD)
This feature addresses the instability that could be caused under heavy braking due to the tendency of the lightly loaded rear wheels to lock prematurely. Electronic Brake Distribution is incorporated into the ABS to limit the rear brake system hydraulic pressure prior to any anti-lock intervention.

Electronic Differential Lock (EDL)
If hard acceleration is demanded in conditions of variable surface grip, or when cornering forces result in a lightly loaded inside rear wheel, there will be a tendency for drive torque to overcome the grip available, resulting in spinning of the lightly loaded wheel.

When this situation is detected by the ABS controller, brake pressure is applied to the spinning wheel in order to transfer drive torque to the opposite wheel, thus maintaining drive and aiding vehicle stability.

See also page 46 'Lotus Dynamic Performance Management'.

⚠WARNING

The enhanced vehicle control that these features provide should not induce any relaxation of caution or vigilance by the driver. Physical limits of cornering and braking still apply, and excessive speed may result in loss of control and an accident. The driver is at all times responsible for the judgement of appropriate speed.

⚠WARNING

When driving in adverse weather, or on poor road surfaces, always be alert to the possibility of slippery conditions and make the necessary allowance for increased stopping distances. Failure to do so may result in an accident in which you or others may be killed or seriously injured.

The relative speeds of the road wheels are continuously monitored by the ABS when the brakes are applied.

If one or more wheels begin to lock, the brake pressure to that wheel(s) is modulated by the ABS to help keep the wheel rotating and provide the maximum controlled braking force. The wheels may appear to lock momentarily as the wheel

speed rapidly changes, and some tyre noise (intermittent screeching) may be heard which is normal and will vary with road and tyre conditions. Note that the ABS does not function at speeds below 5 mph (7 km/h).

When the ABS is activated, the driver will feel a 'pulsing' sensation at the brake pedal as the fluid pressure is modulated, and may also hear clicking from the control solenoids. These signals indicate to the driver that maximum braking is occurring, and that driving style should be modified to suit the road conditions.

The minimum stopping distance is achieved by applying the brakes firmly and steadily, and allowing the ABS to modulate hydraulic pressure. The driver should not attempt to emulate this process by 'pumping' the brake pedal, as modulation in this manner will treat all four wheels similarly, rather than individually as afforded by the ABS electronics.

An ABS tell tale lamp in the instrument panel is provided to warn that the integral self diagnostic system has identified a problem, and to indicate that the anti-lock function has been turned off. See 'ABS tell tale lamp' page 29.

⚠WARNING

The amber ABS tell tale in the instrument panel should light for about 3 seconds following ignition switch on, and then go out. If the lamp remains lit, or comes on whilst driving, a fault in the anti-lock brake system is indicated.

The base brake system will continue to operate normally, but without the anti-lock feature. Heavy braking, or braking on slippery surfaces may cause one or more wheels to lock and result in reduced steering response and possible loss of control.

The car may continue to be driven with appropriate care and anticipation, but should be checked and repaired at the earliest opportunity.

⚠WARNING

The enhanced vehicle control that the ABS provides should not induce any relaxation of caution or vigilance by the driver. Physical limits of cornering and braking still apply, and excessive speed may result in loss of control and an accident. The driver is at all times responsible for the judgement of appropriate speed.

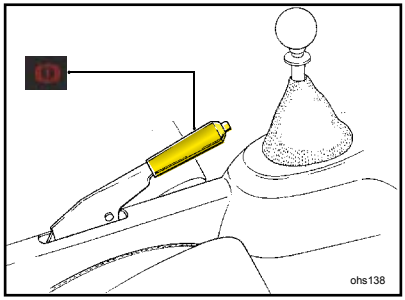
⚠WARNING

Always maintain a safe following distance from other vehicles relative to the road surface and weather conditions.

The control unit of the ABS is set for standard wheel and tyre sizes. If non-standard wheels or tyres are fitted, the control unit may mis-interpret the speed of the car, because of the variant data it receives from the wheel speed sensors. Fitting non-approved wheels or tyres could seriously affect the performance of the ABS.

Activation of the ABS will vary according to the level of grip available at the tyres. On dry surfaces, activation will occur only with a high pedal pressure. On slippery surfaces, only a low pedal pressure will be needed.

On loose or uneven surfaces, such as gravel or snow, a car with ABS may need a longer stopping distance. Allow a greater following distance in these conditions.



Parking Brake

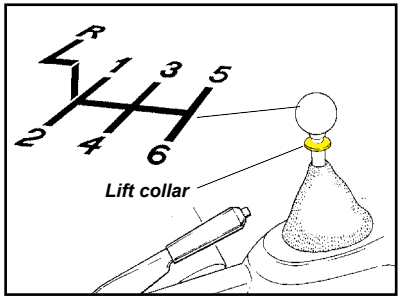
Applying
Firmly pull up the lever to engage the highest ratchet setting attainable.

Warning lamp
A red tell tale lamp in the instrument cluster warns of parking brake application (see page 30).

Releasing
Pull up the lever, press and hold the release button in the end of the handgrip, and lower the lever fully. Before driving off, always check that the parking brake has been fully released and the tell tale lamp is extinguished, or damage may be caused to the braking system.

⚠WARNING

If the parking brake is applied when the brakes are hot (e.g. after prolonged or frequent hard use), special care should be taken to ensure that the parking brake is securely engaged in order to allow for any potential brake force reduction as the discs cool. Failure to do so may result in the car rolling away and causing an accident in which you or others may be killed or seriously injured.



Gear Selection
See page 56 for information on automatic vehicles

Forward Gears
The gear lever is spring biased towards the 3rd/4th gear plane, and must be moved against light spring pressure to the left before selecting first or second gear, or against similar pressure to the right before selecting 5th or 6th speed.

Reverse Gear
With the car at a complete standstill, pause for a moment with the clutch pedal fully depressed before moving the lever to the left, raising the lift collar beneath the knob, and then further to the left before finally pushing forwards to engage the gear.

Gear Changing

When changing gear it is essential that the transmission is not abused by 'power shifting'; the clutch pedal must be fully depressed during each gear shift, and the throttle pedal eased during upshifts.

NOTICE: Gearshifting without correct operation of the clutch and throttle controls can result in severe damage to the transmission and engine. Any damage caused by driving in this way will not be covered by the Vehicle Limited Warranty.

Lotus Dynamic Performance Management

The ABS braking system is equipped with the following features:
Corner Brake Control (CBC)
Drag Torque Control (DTC)
Electronic Stability Control (ESC)
Hydraulic Brake Assist (HBA)
Electronic Brake Distribution (EBD)
Electronic Differential Lock (EDL)
Traction Control System (TCS)

These combined features are called Lotus Dynamic Performance Management (Lotus DPM).

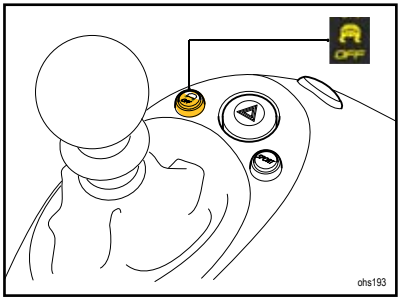
Lotus DPM enhances vehicle stability in extreme manoeuvres typified by accident avoidance attempts or misjudged cornering demands. Current vehicle behaviour is constantly monitored, and compared with a determination of the driver intent from data gathered from the driving controls.

⚠WARNING

The enhanced vehicle control that these features provide should not induce any relaxation of caution or vigilance by the driver. Physical limits of cornering and braking still apply, and excessive speed may result in loss of control and an accident. The driver is at all times responsible for the judgement of appropriate speed.

⚠WARNING

If the Lotus DPM tell tale in the instrument panel is seen to flicker amber, this is an indication that the system has been triggered and electronic intervention is taking place as the vehicles tractive limit has been reached and driving the style should be modified accordingly.



Lotus DPM 'Off' Button (Elise only)
If the driver demands, this feature can be de-activated by pressing the Lotus DPM 'Off' button provided in the centre console.

This may be temporarily desirable in certain unusual circumstances, such as loose surfaces, deep snow or when 'rocking' the vehicle free from mud.

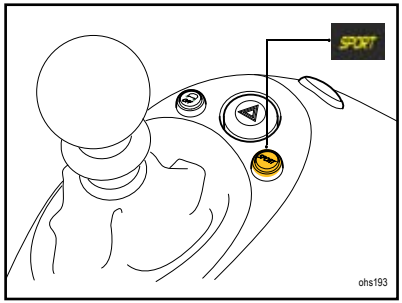
To de-activate
- Vehicle must be stationary.
- Ignition switched to the on position.
- DPM 'Off' button held pressed for 2 seconds. The Lotus DPM tell tale and 'Off' on the instrument panel will illuminate amber to confirm the systems de-activation.

⚠WARNING

(Lotus DPM) should always be active when driving on public roads in normal conditions.

To Re-activate
- Momentarily press the Lotus DPM 'Off' button and check that the tell tale is extinguished.
- Every time the vehicle is restarted, the system will default to full Lotus DPM.

Note: In all cases, anti-lock braking (ABS) and Hydraulic Brake Assist (HBA) will be retained.



'Sport' Mode (Elise only if fitted)
A 'Sport' Mode button is also located in the centre console, providing increased power induced wheel slippage thresholds and no throttle reduction on detection of understeer.

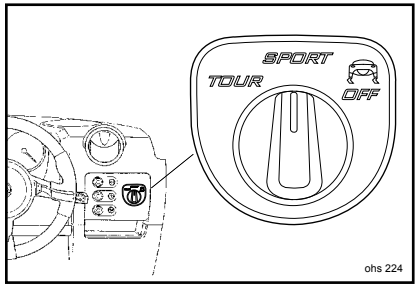
⚠WARNING

Be aware that selecting 'Sport' Mode and/or Lotus DPM 'Off', will alter the handling characteristics of the car. Drivers should exercise caution until familiarity has been gained in a controlled safe environment.

Selecting 'Sport' Mode
Hold the button pressed for one second until the button surround is illuminated amber, accompanied by the amber 'SPORT' tell tale in the instrument panel. The vehicle will immediately engage Sports Mode.

To Switch Off 'Sport' Mode
Briefly press the button a second time.

Note: 'Sport' Mode will always default to 'Off' at the next ignition cycle.



3 Mode Lotus DPM Switch (Exige only)
Please refer to page 126 for automatic vehicles or if your switch graphics differ from those shown above.

The standard Lotus DPM (Dynamic Performance Management) system has 3 driver selectable modes which are controlled from the Lotus DPM switch positioned outboard of the steering column.

Note: Lotus DPM 'Off' mode can only be selected whilst the engine is running, but can be activated either whilst the vehicle is being driven or is stationary.

⚠ WARNING

Be aware that selecting Sport Mode and/or Lotus DPM 'Off' will alter the handling characteristics of the car. Drivers should exercise caution until familiarity has been gained in a controlled safe environment.

Lotus DPM Mode Settings

TOUR

1. Lotus DPM fully activated (see page 46 for further details).
2. Exhaust active valve will only open at high throttle/RPM applications (see page 65).
3. Maximum continuous engine speed restricted to 6,600rpm.

SPORT

1. Reduction in Lotus DPM settings allowing increased power induced wheel slippage thresholds and no throttle reduction on understeer.
2. Exhaust active valve now open whilst engine idling, closes at low engine speeds and reopens from medium throttle applications/engine speeds.
3. Maximum continuous engine speed increased to 7,000rpm.

OFF

Lotus DPM 'Off'

1. Lotus DPM de-activated.
2. Exhaust active valve is permanently open regardless of throttle position.
3. Engine idle speed increased to 900rpm, maximum continuous engine speed increased to 7,000rpm.

Mode Selection

'Sport' Mode
Rotate the switch clockwise from the 'Tour' setting, the amber '***SPORT***' tell tale in the instrument panel will be illuminated.

The vehicle will immediately engage 'Sports' mode.

Note: if selected whilst driving, this may cause the exhaust active valve to open without increased throttle pedal depression as well a reduction in the Lotus DPM system functionality.

The Lotus DPM tell tale will flash when electronic intervention is taking place indicating that the systems tractive limit has been reached.

To Switch Off 'Sport' Mode
Rotate the switch back to the 'Tour' position.

Note: 'Sport' mode can be activated even if the engine is not running, therefore if the engine is turned off whilst in 'Sport' mode the vehicle will revert back to 'Sport' Mode when the engine is restarted.

Lotus DPM 'Off' Mode
Rotate the switch fully clockwise from either the 'Tour' or 'Sport' setting. Hold the switch for at least one second in the Lotus DPM 'off' position and then release, the switch will return to the 'Sport' position.

The Lotus DPM 'Off' lamp within the instrument panel will now be illuminated. See page 29 for further details.

Note: if selected whilst driving, the vehicle will immediately engage Lotus DPM 'Off' mode, the exhaust active valve will open regardless of the throttle pedal position and the Lotus DPM system will be immediately disabled.

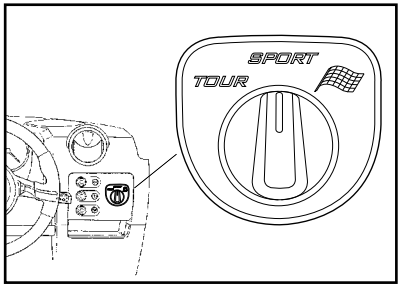
To Cancel Lotus DPM 'Off' Mode
Rotate the switch back to the 'Tour' setting.

Note: If the engine is turned off whilst in Lotus DPM 'Off' mode the vehicle will revert to 'Sport' mode when the engine is restarted.

⚠WARNING

(Lotus DPM) should always be active when driving on public roads in normal conditions.

'Sport' Mode from Lotus DPM 'Off' Mode
Turn the switch from its 'Sport' to 'Tour' position then return it back to the 'Sport' mode position setting.



4 Mode Lotus DPM Switch (Exige only)
Please refer to page 126 for automatic vehicles or if your switch graphics differ from those shown above.

The factory 'Race Pack' option is equipped with a 4 mode selectable switch which also includes Lotus Launch Control. These modes are controlled from the Lotus DPM switch positioned outboard of the steering column.

Note: 'Race' and Lotus DPM 'Off' modes can only be selected whilst the engine is running, but can be activated either whilst the vehicle is being driven or is stationary.

Note: To fully optimise the Exige's set-up for track day usage in dry conditions, it is recommended that the combination of 'Race' Pack suspension and optional Pirelli PZero Trofeo tyres are fitted. This set-up will fully utilise the characteristics of the DPM setting 'Race Mode'.

⚠WARNING

Be aware that selecting 'Sport', 'Race' or Lotus DPM 'Off', will alter the handling characteristics of the car. Drivers should exercise caution until familiarity has been gained in a controlled safe environment.

Under no circumstances should Lotus Launch Control be employed on the public road.

Mode Settings

TOUR
1. Lotus DPM fully activated (see page 46 for further details).
2. Exhaust valve will only open at high throttle applications.
3. Maximum continuous engine speed restricted to 6,600rpm.

SPORT
1. Reduction in Lotus DPM settings increasing power induced wheel slippage thresholds and no throttle reduction on understeer.
2. Exhaust active valve now open whilst engine idling, closes at low engine speeds and reopens from medium throttle applications/engine speeds.
3. Maximum continuous engine speed increased to 7,000rpm.

'Race' Mode
1. Optimised traction and corner exit characteristics with reduced Electronic Stability Control (ESC) intervention.
2. The exhaust valve is now permanently open regardless of throttle position or engine speed.
3. Engine idle speed increased to 900rpm, maximum continuous

engine speed increased to 7,000rpm.

Lotus DPM 'Off' Mode

1. Lotus DPM de-activated.
2. The exhaust active valve is permanently open regardless of throttle position or engine speeds.
3. Engine idle speed increased to 900rpm and maximum continuous engine speed increased to 7,000rpm.

Lotus Launch Control Mode

1. Lotus DPM optimised for Lotus Launch Control.
2. The exhaust active valve is permanently open regardless of throttle position or engine speeds.
3. Engine idle speed increased to 900rpm and maximum continuous engine speed increased to 7,000rpm.

Please see the Exige special features on page 65 for further information on the active exhaust valve also referred to as the EP (Engine Protection) valve.

Mode Selection

'Sport' Mode

Rotate the switch clockwise from the 'Tour' setting, the amber '***SPORT***' tell tale lamp in the instrument panel will be illuminated.

The vehicle will immediately engage 'Sport' mode.

Note: if selected whilst driving, this may cause the exhaust active valve to open without increased throttle pedal depression as well a reduction in the Lotus DPM system functionality.

The Lotus DPM tell tale will flash when electronic intervention is taking place indicating that the systems tractive limit has been reached.

To Switch Off 'Sport' Mode

Rotate the switch back to the 'Tour' mode position.

Note: If the engine is turned off whilst still in 'Sport' mode the vehicle will revert to 'Sport' mode when the engine is restarted.

'Race' Mode

Rotate the switch clockwise from either the 'Tour' or 'Sport' setting. Hold the switch for at least one second in the 'Race' mode position and then release, the switch will return to the 'Sport' position.

The amber '***RACE***' and Lotus DPM 'Off' tell tale lamps within the instrument panel will now be illuminated. See pages 28 – 29 for further details.

Note: if selected whilst driving, the vehicle will immediately engage Lotus 'Race' mode, the exhaust active valve will open regardless of the throttle pedal position as well a reduction in the Lotus DPM system functionality.

To Switch Off 'Race' Mode

Rotate the switch back to the 'Tour' position setting.

Note: If the engine is turned off whilst still in 'Race' mode the vehicle will revert to 'Sport' mode when the engine is restarted.

⚠WARNING

(Lotus DPM) should always be active when driving on public roads in normal conditions.

Selecting 'Sport' from 'Race' Mode
Turn the switch from the 'Sport' to 'Tour' position then return it back to the 'Sport' mode position setting.

Lotus DPM 'Off' Mode
Note: The vehicle must already be in 'Race' mode to activate the Lotus DPM 'Off' mode.

Ensure the clutch pedal is in the fully up position and rotate the switch fully clockwise from the 'Sport' position and hold for at least one second in the Lotus DPM 'off' position and then release, the switch will return to the 'Sport' mode position.

The ***'RACE'*** tell tall lamp will extinguish but the Lotus DPM 'Off' tell tale lamp will continue to be illuminated. See pages 46 – 47 for further details.

Note: if selected whilst driving, the vehicle will immediately engage Lotus DPM 'Off' mode, the exhaust active valve will open regardless of the throttle pedal position and the Lotus DPM system will be immediately disabled.

Cancelling Lotus DPM 'Off' Mode
Rotate the switch back to the 'Tour' mode position. If the engine is turned off whilst still in Lotus DPM 'Off' mode the vehicle will revert to 'Sport' mode when the engine is restarted.

Lotus Launch Control
Lotus Launch Control is a technique designed to produce the fastest possible race starts.

⚠WARNING
Under no circumstances should this track feature be used on the public road.

NOTICE: The extreme loads associated with Lotus Launch Controlled starts will eventually result in a reduction of the transmission (and any associated components) lifespan.

Always allow the clutch to cool and recover before repeating a Lotus Launch Control start.

To ensure the continued reliability of the transmission system whilst continuing to offer protection under the standard terms and conditions of the Limited Vehicle Warranty, the Lotus DPM system will not exceed a total of 20 controlled launches without the need to reset the Lotus Launch Control system.

The Lotus Launch Control system can only be reset using designated Lotus computerised diagnostic equipment.

The system is only reset after a dealer vehicle inspection, which may also include any rectification or repair work deemed necessary to safely perform any further controlled launches.

Once the system is reset the Lotus Launch Control section of the maintenance booklet is signed and stamped by the dealer so that another 20 controlled launches can be performed.

Note: There may be a charge associated with this resetting procedure, as well any rectification or repair work required which can be attributed as a direct result of driver abuse, see the Engine Data Recording section on page 64 for further information

For further information please refer to the 'OBLIGATIONS OF OWNERS' and 'WARRANTY NOTES' sections of the New Vehicle Warranty manual which is included as a separate publication contained within the owner's handbook pack.

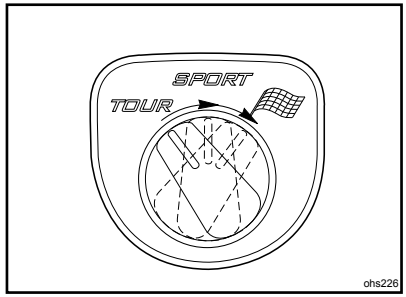
Note: As from the time of the last dealer visit, a cumulative total of all the controlled launches as well as manually instigated vehicle standing starts will be displayed in the vehicles maintenance record book.

This book is also included as a separate publication contained within the owner's handbook pack.

Note: The repair or replacement of any transmission components required as a result of damage or premature wear will not be covered under the terms of the Limited Vehicle Warranty once the Lotus DPM system has recorded in excess of 100 Lotus controlled launches.

Therefore it is highly recommended that the total number of controlled launches performed to date is taken into account before any further Lotus Launch Controlled attempts are considered.

For a full explanation of the terms and conditions of the Lotus Limited Vehicle Warranty, please refer to the separate warranty manual contained within the owner's handbook pack.



Activating Lotus Launch Control

Note: Lotus Launch Control can only be activated if the Lotus DPM system is currently set to 'Race' mode

1. With clutch pedal depressed and the Lotus DPM system currently set to 'Race' mode, rotate the switch clockwise from the 'Sport' mode position and hold for at least one second in the 'Race/Launch' mode position and then release.

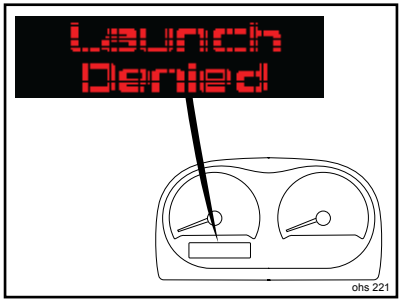
The switch will return to the 'Sport' mode position.

Lotus Launch Control Preparation

To perform the best possible race start whilst also ensuring powertrain wear is limited, the engine and Lotus DPM systems will carry out the various checks before allowing the vehicle to perform a controlled launch.

Vehicle parameters required to perform a Lotus DPM assisted controlled launch:

- Vehicle must be stationary.
- Engine coolant temperature must be between 80˚C and 110˚C.
- Steering wheel must be in the straight ahead position.
- A Lotus controlled launch has not been performed within the last 2 minutes.
- There are no system faults present causing in either the MIL (Malfunction Indicator Light) or Lotus DPM tell tale lamps to be illuminated, see page 29 for further information.
- Current vehicle mileage is in excess 500 miles / 805 km.



Unless all of these conditions are within the set tolerance ranges the LCD screen will show the above message for 2 seconds before returning back the standard display.

If all of the conditions are within the set tolerance ranges then the LCD screen will display the above message.

2. To proceed with Lotus Launch Control Mode rotate the switch clockwise once more from the 'Sport' mode position and hold for at least one second in the 'Race/Launch' mode position and then release.

The LCD display will then display the above flashing message.

Note: There are no limitations on how many times the vehicle can be put into Lotus Launch Control mode.

3. Engage first gear and apply full throttle. This will set the maximum engine speed to match the launch controlled rev-limited maximum engine speed (3,500 rpm approx).

NOTICE: Do not attempt a Lotus Launch Controlled start in any gear other than first.

Note: Full throttle must be applied within 1 second of the engine speed being raised up to or above the Launch Controlled rev-limited speed otherwise Launch Control will be aborted and the 'Launch Denied' message will be displayed.

To protect the exhaust catalysts from overheating, the Lotus DPM system will cancel Lotus Launch Control Mode if the engine speed is held at or above the Lotus

Launch Controlled rev-limited maximum for a cumulative time of more than 10 seconds.

4. Rapidly release the clutch and maintain full throttle throughout the transition from 'Lotus Launch' to 'Race' Mode until the first gear change is required.

NOTICE: Do not attempt to slip the clutch during a controlled Lotus Launch start as overheating or damage to the clutch mechanism may occur.

A controlled Lotus Launch can be cancelled before completing stage 2 by releasing the clutch pedal, or at any stage by turning the Lotus DPM switch to either the ' Sport' or 'Tour' mode.

The Lotus DPM system will return to 'Race' mode once the Lotus Launch procedure has been carried out and the driver makes the first gear change.

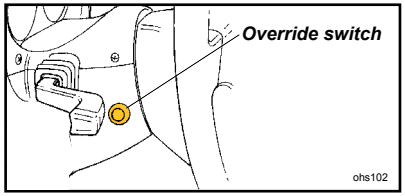
Repeat steps 1- 4 to carry out another controlled Lotus Launch (waiting for at least 2 minutes to elapse since the previous launch).

Launch control functionality is inhibited after 20 Lotus controlled launches have been performed,

If any further controlled launches are attempted then the LCD display will display the above message and an audible buzzer will sound.

The Lotus Launch Control system must be reset by a Lotus dealership to permit a further 20 controlled launches to be performed.

Please see pages 52 - 53 for further information.



Engine Protection Valve Override Switch
(If fitted)
The EP valve may be returned to the closed position whilst the vehicle is in 'Race' or Lotus DPM 'Off' mode by a momentary press of the override switch located on the left hand side of the steering column console. This may be required if driving the vehicle on a noise restricted track. Alternatively if pressed whilst in 'Tour' or 'Sport' mode, the EP valve will open regardless of the vehicle road speed.

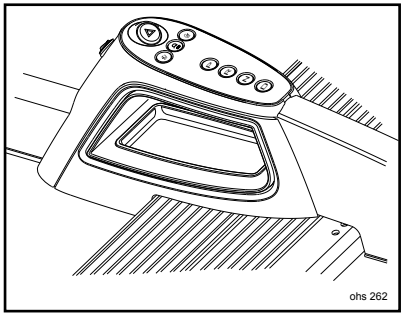
A corresponding "EX.OPEN" or "EX.SHUT message will also be momentarily shown by overriding the fuel gauge display within the instrument panel.

Note: Even if overridden, the EP valve will automatically open if the engine speed exceeds 5,500rpm to reduce excessive exhaust back pressure. The EP valve will return to the closed position when the ignition is switched off.

Automatic Transmission System Option
The Lotus automatic transmission system allows the driver to switch between conventional 6 speed automatic drive to manual paddle shift mode with the option of 'Sport' mode producing quicker and more pronounced gear shifts as well as optimising shift points for performance.

System Modes:
Automatic transmission: Gear shifts and shifting points are biased to optimise refinement and fuel economy.

Manual sequential gear selection: forward gears can be manually selected using the paddle shifters provided within the steering wheel.



Automatic transmission using PRND Gear Selector
With ignition switch turned to position II, initial gear selections (Park Reverse Neutral or Drive) are accessed from the buttons on the PRND control panel located in the centre console.

Note: The engine can only be started if either P or N is selected and the footbrake is depressed.

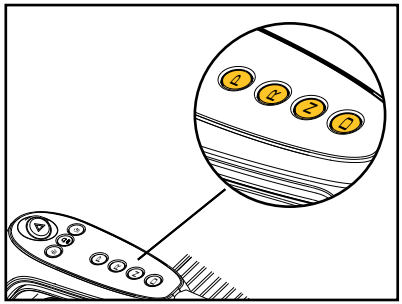
Note: It is good driving practice to only turn the engine off once the vehicle is stationary and P – Park or N – Neutral has been selected.

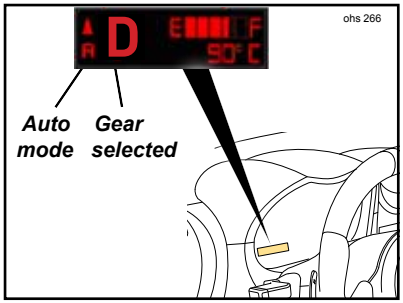
With the engine stopped (ignition switch in position I) P is automatically selected, (also refer to page 61 for further details).

To remain in Neutral with the engine stopped turn the ignition switch back to position II and then re-select N - Neutral.

⚠WARNING

Always apply the footbrake whilst selecting D - Drive or R - Reverse as the vehicle may 'creep' even if the throttle is not depressed. To avoid unexpected or sudden vehicle movement wait for the transmission to engage gear after selecting D or R before depressing the accelerator.





PRND Button Functions

P – Park: Select only when the vehicle is stationary to permanently lock the transmission.

Note: Park will be selected automatically when the ignition is switched off and the vehicle speed is below 1.2 mph (2km/h).

R – Reverse: Select only when vehicle is stationary to engage reverse gear.

To avoid unexpected or sudden vehicle movement do not rev the engine or allow it to run above normal idle speed while selecting D or R, or while the vehicle is stationary with any gear selected.

N – Neutral: Select only when the vehicle is stationary to temporarily disengage drive to the rear wheels. It is recommended that the parking brake is applied if neutral is selected.

D – Drive: Select only when the vehicle is stationary to engage forward gears. Gear changing shifting points for all six forward gears are controlled and determined by the accelerator pedal position, vehicle speed as well as other information received by the vehicles engine management systems.

The PRND gear selected will be shown in the liquid crystal display (LCD) within the instrument pack.

⚠WARNING

To avoid unexpected or sudden vehicle movement always select P or N if the vehicle is stationary with the engine remaining at idle for prolonged periods.

PRND Panel Appropriate Gear Selection

P – Park: Press button P to select*, vehicle road speed must be below 1.2 mph (2km/h).

R – Reverse: Press button R to select*, vehicle road speed must be below 1.2 mph (2km/h).

N – Neutral: Press button N to select*, the footbrake must be depressed if selecting from P – Park. If selecting from R – Reverse vehicle road speed must be below 1.2 mph (2km/h).

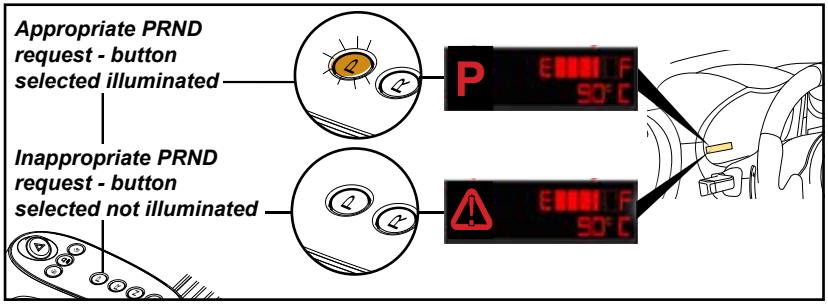
Neutral can also be selected from any gear by simultaneously pulling both steering wheel mounted paddle shifters towards the driver.

D – Drive: Press button D to select* from:

P The footbrake must be depressed.

R The vehicle road speed must be below 1.2 mph (2km/h).

N The footbrake must be depressed if vehicle road speed is below 1.2 mph (2km/h).



*To avoid potential damage to the engine and transmission a driver PRND selection, under certain conditions, can only be achieved if the gear selection requested (such as selecting reverse whilst in drive) is 'appropriate' to the vehicles current road speed and, if necessary with the footbrake depressed.

Appropriate PRND Gear Selection

If an appropriate PRND request is selected, the button pressed on the selector console will illuminate amber. The PRND indicator display situated in the instrument panel will illuminate accordingly to show the gear selected. The transmission will then engage gear.

Inappropriate Gear Selection

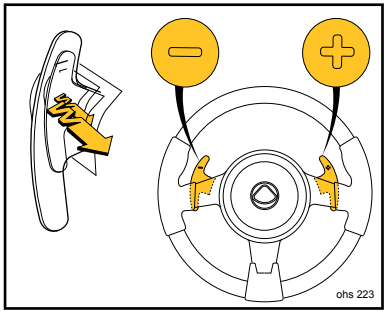
If an inappropriate PRND request is selected, the button pressed in the selector console will not illuminate. The current gear selection will remain amber on the PRND panel and the transmission will not engage the gear requested.

Drive Selection in Manual Mode

Drive can also be selected from P, R or N by depressing the footbrake and holding the '+' paddle shifter towards the driver. If vehicle road speed is over 1.2 mph (2km/h) the footbrake does not have to be depressed.

Kick-Down

When in D – Drive with the accelerator pedal depressed fully, the transmission will downshift to the lowest appropriate gear. Once the accelerator pedal is returned to a normal driving position, the transmission will up-shift to the highest appropriate gear. Kick-down operation will vary according to road speed, current gear in use and accelerator movement.



Manual Gear Selection Mode

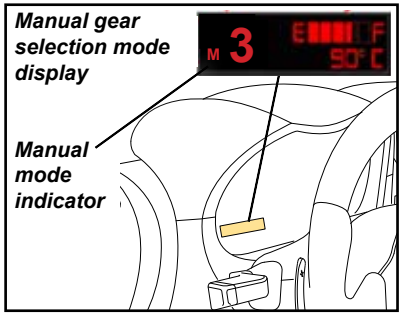
Gearshifting can be manually controlled by the driver using the paddle shifters positioned behind the steering wheel.

Up-shifting: Controlled by the '+' right hand paddle.

Down-shifting: Controlled by the '-' left hand paddle.

Activating Manual Gear Selection

Up-shifting: Manual mode can be activated whilst in any current forward gear by pulling the '+' right hand paddle once towards the driver. Further pulls of the '+' paddle are then required to increase gear.



Down-shifting: Manual mode can be activated whilst in any current forward gear by pulling the '-' left hand paddle once towards the driver.

Note: Be aware that a down-shift will occur immediately the first time '-' left hand paddle is pulled.

Whilst in manual mode the gear selected will also be displayed on the PRND display in the instrument panel.

If not already selected by the driver, lower gears will be automatically selected by the transmission as the vehicle slows down to a stop to protect the transmission system and as well as preventing the engine from stalling.

Kick-Down
Kick-down function is not available in manual mode.

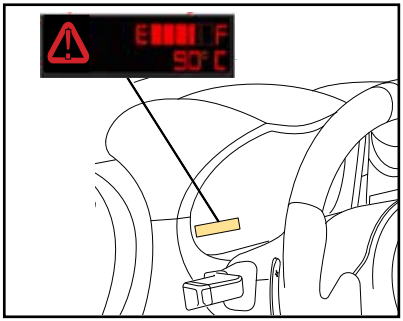
Remaining in Manual Gear Selection Mode
In Non-Sport Mode: Continued operation of either paddle within 20 second intervals will maintain manual selection mode otherwise it will revert back to auto mode selecting the gear the system decides is appropriate which may differ from the gear last manually selected.

In Sport Mode: The vehicle will stay in manual mode permanently. This will allow the car to reach maximum engine speed without automatically up-shifting. To protect the transmission it will downshift at the lower rev band to prevent engine stalling.

NOTICE: The use of wide throttle openings and/or high engine rpm before normal running temperature has been reached should be avoided. The engine management system graduates the maximum engine speed for a cold engine but in order to reduce possible damage and wear the use of maximum engine speed should be restricted to occasions when maximum acceleration is required. Overuse will compromise powertrain service life.

Returning to Automatic Transmission
In Sport Mode:
- Select D – Drive button on the PRND console or;
- Pull '+' up-shift paddle for 2 seconds or;
- Deactivate Sport Mode.

Non Sport Mode:
- Select D – Drive button on the PRND console, or;
- Pull '+' up-shift paddle for 2 seconds, or;
- Do not make a gear selection with either paddle shifter for 20 seconds or more.



Inappropriate Manual Gear Selection
The manual selector will not select an 'inappropriate' gear shift which could cause the engine to reach its maximum RPM if engaged. A warning triangle symbol will appear on the PRND display until an appropriate gear selection is made.

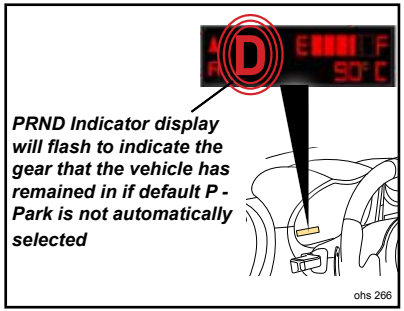
Sport Mode
A Sport Mode selector switch is provided to cater for the preferences of some drivers, see page 118 for further details and how to activate Sports Mode.

In Sport Mode the gear shift points are optimized for improved vehicle performance and faster gear shifts and, if activated, the vehicle will remain in manual sequential gear mode until the D – Drive button is depressed.

Please refer also to page 118 and 119 for further information on the suitable conditions for activating 'Sport' mode as well as appropriate safety warnings.

Note: Switching off the Lotus Dynamic Performance Management (Lotus DPM) in conjunction with selection of Sport Mode, will still retain the enhanced engine and transmission Sport features, but without any power induced wheelslip intervention. In all cases, anti-lock braking and HBA (Hydraulic Brake Assist) will be retained.

Please refer also to pages 46 for further information on Lotus Dynamic Performance Management.



Automatic P - Park Default
With the engine stopped (ignition switch in position I) P - Park is automatically selected by the transmission system.

If a system error occurs resulting in P - Park not being automatically selected the PRND indicator display will flash accompanied with an audible beep to indicate the gear that the vehicle has remained in i.e., Reverse, Neutral or Drive.

⚠WARNING
Always apply the footbrake and handbrake if P - Park cannot be selected as required to avoid unexpected or sudden vehicle movement.

Note: The engine can only be started if either P or N is selected and the footbrake is depressed.

A flashing gear indicator symbol is an indication that a mechanical or electrical failure has occurred within the automatic transmissions selector system and therefore it is also unlikely that N - Neutral can be selected instead of P - Park.

Please contact your Lotus Dealer for further advice if this fault occurs.

IDLE SPEED AND RUNNING-IN

NOTICE: The use of wide throttle openings and/or high rpm before the engine has reached normal running temperature will result in premature wear, and should be avoided.

Idle Speed

Engine idle speed is controlled electronically and is normally about 750 rpm (Exige) and 800 rpm (Elise) but may vary if 'Sport Mode' is activated (see pages 48 - 50). Variations will also occur during the engine warm up phase, and at abnormally high temperatures. Selection of air conditioning will also result in a raised idle speed.

Running-In

Although the Elise/Exige powertrain is built to close tolerances using modern technology, the progressive and sympathetic running-in (or bedding-in) of a new engine and transmission, remains a valuable contributor to achieving the highest levels of efficiency, durability, smooth operation and economic performance. By following the simple guidelines described in this section, a solid foundation will be built for the car's lifetime career.

NOTICE: Failure to comply with the following running-in provisions could invalidate the terms of the New Vehicle Warranty.

Engine

It is important during the car's early life, not to overload the engine. This is dependent primarily on throttle opening (accelerator position) and engine speed.
For the first 600 miles (1,000 km), use no more than moderate throttle openings (about half of the available accelerator pedal travel) and do not run the engine continuously at engine speeds over 4,000 rpm.

Occasional short bursts at wider throttle and higher engine speed will be beneficial, as will a constantly changing cruising speed and making full use of the gearbox. Do not allow the engine to labour in too high a gear ratio; change down and let the engine operate in its natural power band.

After 600 miles (1,000 km) have been covered, full throttle and/or maximum engine speed may be used for short periods, but do not attempt to exploit full vehicle performance until after the first 'After Sales' service has been carried out.

Manual Transmission

Forcing the gearchange will cause unnecessary wear on system components and impair subsequent gearchange quality.

Brakes

Allow the brakes to bed-in by avoiding needless heavy braking for the first 100 miles (160 km). Thereafter, the first time the brakes are used aggressively, some loss of brake feel may be evident as the brake pads undergo a final conditioning phase. After the brakes have cooled, full brake performance will be restored. Both the brake pedal and gearchange efforts are likely to reduce during the running-in period.

Note: Cars fitted with upgraded brakes using 4-piston front callipers, require an extended procedure for pad bedding, details of which will be supplied in separate literature.

Tyres

New tyres also require a short 'running-in' period before providing optimum grip.

⚠WARNING

CARBON MONOXIDE Be aware of the danger of carbon monoxide! Never run the engine in an enclosed space. The exhaust gases contain carbon monoxide, a deadly gas which is particularly dangerous, as being colourless odourless and tasteless, its presence is very difficult to detect.

Operation Temperature Limit

The Lotus Elise and Exige are designed to operate at outside air temperatures above -20°C (-4°F). The engine management, windscreen demisting and vehicle safety systems are not approved for use at lower temperatures.

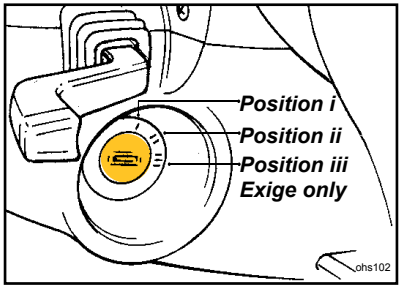
⚠WARNING

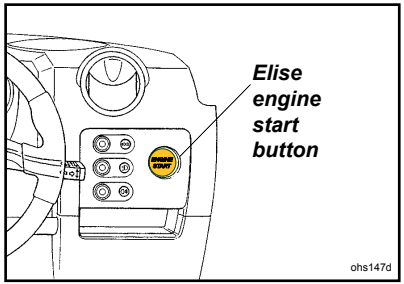
You or others could be seriously injured or killed, by incorrect airbag deployment if attempts are made to use the car at temperatures lower than -20°C (-4°F).

Starting a Cold or Warm Engine

See pages 56 - 60 for additional information for automatic vehicles

Before starting the engine, always check that the parking brake is firmly applied, the transmission is in neutral and as an extra precaution and to reduce drag, depress the clutch pedal (if fitted). Switch off any unnecessary electrical loads.





Starting Procedure

I. Insert the key into the steering lock/ ignition switch and turn to position 'I' to unlock the column.

ii. Turn the key to position 'II' to switch on the ignition, and pause for a moment to allow the fuel system to prime.

iii. Exige Manual: Depress the clutch pedal as a precaution, and without moving the accelerator, turn the key further clockwise to 'III' against spring pressure to operate the starter motor and release as soon as the engine starts.

iii. Exige Automatic: It is necessary select either P – Park or N - Neutral and apply light foot pressure to the brake pedal before turning the key to position 'III' to engage the starter motor.

iii. Elise: this key position is not used. To operate the starter, press the 'Start' button in the switch panel outboard of the steering column to engage the starter motor. Release the button as soon as the engine starts.

iv. Allow a cold engine to idle for 10 seconds before driving off, but if ambient temperatures are below freezing, let the engine and screen heating systems warm up for a few minutes before departing.

v. If the engine fails to start within 15 seconds, stop cranking and pause for 10 seconds before a second attempt.

vi. If further efforts are unsuccessful, contact your dealer.

⚠WARNING

An unattended car with a running engine is potentially hazardous. Turn off the engine and remove the key before leaving the car.

Stopping the Engine

After running the engine at high speed or under heavy load and generating substantial engine heat, if possible before switching off the engine, drive for a short period in a gentler manner, or allow the engine to idle for a few minutes in order for normal temperatures to be resumed. This consideration will reduce the effects of heat soak, and benefit the long term durability of the powertrain.

To stop the engine, turn the ignition key to position I.

Engine Data Recording

Various operating parameters are being continuously monitored and recorded within the vehicles ECU (Electronic control Unit).

This data may be routinely downloaded by Lotus dealers or on demand in order to assist with fault diagnosis and identify any vehicle misuse.

Elise
The type 1ZR-FAE 4 cylinder engine used in the 1.6 litre Elise, features Dual Variable Valve Timing - intelligent (VVT-i) system, which allows both inlet and exhaust valve timing to be varied under microprocessor control. In addition, a Valvematic system is used to vary the inlet valve lift in order to reduce pumping losses, minimise noxious emissions and optimise fuel economy.

This mechanism is also used to control engine speed in combination with an electrically operated throttle valve. The Acoustic Control Induction System (ACIS), uses an intake plenum with an internal bulkhead to divide the intake tract into two sections.

An intake air control valve in the bulkhead is open or closed to vary the effective length of the intake manifold, dependent on engine speed and throttle opening.

This feature optimises power output at both low and high engine speed ranges.

Elise S
The type 2ZR-FE 4 cylinder engine used in the 1.8 litre Elise, features Dual Variable Valve Timing - intelligent (VVT-i) system, which allows both inlet and exhaust valve timing to be varied under microprocessor control.

The engine also benefits from same Acoustic Control Induction System (ACIS) used on the 1.6 litre Elise.

The engine is uprated by the fitment of a Magnuson R900 supercharger (utilising Eaton TVS Technology ™) with an integral intercooler air to water charge cooler and inlet manifold.

Exige S
The type 2GR-FE V6 3.5 litre engine of the Exige uses chain driven twin overhead camshafts for each cylinder bank to operate four valves per cylinder via Dual VVT-i (Dual Variable Valve Timing - intelligent) system.

The engine also features direct ignition with individual spark plug mounted coils, ACIS (Acoustic Control Induction System) and ETCS-i (Electronic Throttle Control System-intelligent). These control functions contribute towards improved engine performance, fuel economy and reduced exhaust emissions.

The engine is uprated by the fitment of a Harrop HTV1320 supercharger (utilising Eaton TVS Technology ™).

The exhaust silencer utilises an active valve designed to reduce the back pressure at high rpm by opening a by-pass valve allowing the engine to safely generate full power.

Fuel Requirement

Use only premium grade UNLEADED fuel with a minimum octane rating of 95 RON, (optimum performance is achieved with 98 RON minimum for Elise S and Exige S).

NOTICE: Using fuel with a lower octane rating may cause knocking (pinking) which, if severe, can cause serious engine damage. Light knocking may occasionally be heard for short periods when accelerating or driving up hills, and should cause no concern, although using a lower gear would be advised. If, however, persistent heavy knocking is heard when using the specified fuel, a Lotus dealer should be consulted without delay.

If no unleaded premium grade fuel is available, 91 RON unleaded fuel may be used for short periods, but heavy engine loads and wide throttle openings must be avoided.

The use of good quality fuels containing proper detergent additives is advised for good performance and emission control.
The Elise/Exige is fitted with catalytic converter(s) in the exhaust system in order to reduce the noxious content of the exhaust gases and comply with emission control regulations.

It is essential that ONLY UNLEADED FUEL is used. The effectiveness of the catalytic converters decreases after as little as one tankful of leaded fuel or LRP.

NOTICE: The use of leaded fuel, or lead replacement petrol (LRP), will cause irreversible contamination of both the catalysts and attached exhaust gas sensors. Fuel system damage and running problems, resulting from the use of incorrect fuels will not be covered by your New Vehicle Warranty. **DO NOT** push or tow start the car; or turn off the ignition at engine speeds above idle; or run the fuel tank dry: Any of these actions may damage the catalytic converters.

Additives

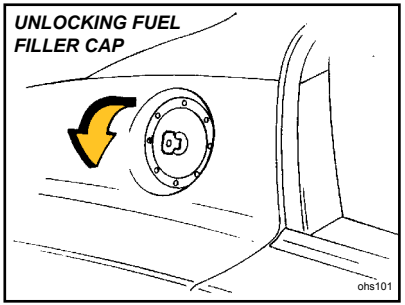
Ethanol E5 & E10 - A mixture of 5% or 10% ethanol (grain alcohol) and unleaded petrol may be used in the Elise/Exige but the lower octane rating (typically 93 - 94 RON) will result in slightly reduced performance and economy. If driveability problems are experienced as a result of using ethanol, use 95 RON unleaded petrol. Do not use Ethanol blends with a higher concentration than 10%.

Methanol - Do not use fuels containing methanol (wood alcohol). Use of this type of alcohol can result in performance deterioration and damage to critical parts in the fuel system.

Fuels Containing MMT - Some fuels contain methylcyclopentadienyl manganese tricarbonyl (MMT), which is an octane enhancing additive. Such fuels may damage the emission control system and should NOT be used.

Diesel - The Lotus Elise/Exige will not operate on diesel fuel.

NOTICE: Always double check that the correct filling station fuel nozzle has been selected before re-fuelling. Costs incurred for fuel system draining and cleaning will not be covered by the New Vehicle Warranty.



Fuel Filling

Fuel filler cap removal: Ensure engine is switched off. Insert the key (same key as ignition), and turn ¼ anti-clockwise. Withdraw the cap with the key, Note, the key can be only be withdrawn from a locked cap.

Fuel filler cap refitment: Engage the lugs on the cap with the slots in the filler neck, turn the key ¼ clockwise to lock, and withdraw the key.

Filling Procedure: Insert the pump nozzle fully into the neck, and fill until the auto-shut off mechanism is triggered. Do not attempt to 'brim' the tank to the top of the filler neck, as expansion of the fuel due to temperature change (cold underground fuel storage) may cause flooding of the fuel tank breather system charcoal canister, or spillage of fuel.

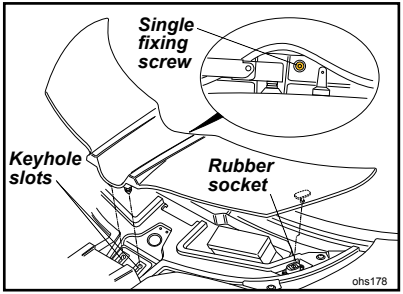
⚠WARNING

Petrol and its attendant fumes are highly explosive. You can be burned or seriously injured when handling fuel.

Before stopping at a filling station, switch off mobile phones and other electronic equipment, ensure that all cigarettes are extinguished and that no naked flames or other potential ignition sources are present.

Switch off the engine before re-fuelling.

Remove the filler cap slowly to allow any pressure to bleed off gradually. Hasty removal may result in a small amount of fuel spray with a possible health or fire hazard.

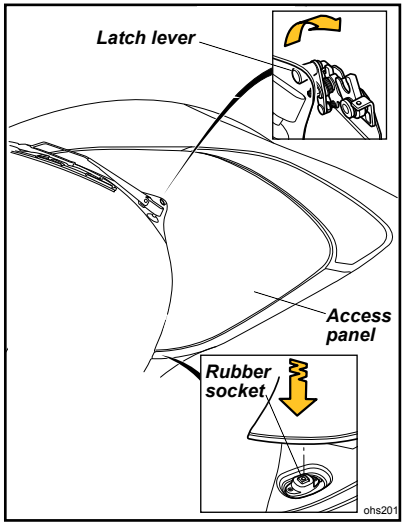


Front Access Panel - *Elise*

To remove: Use the hexagonal key supplied in vehicle tool kit, release the single threaded fastener securing the centre rear edge of the panel. Pull the 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: 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 over tighten. Re-stow the hexagonal key in the tool kit.

***NOTICE*:** Ensure the access panel is refitted and properly secured before driving.



Front Access Panel - *Exige*
A release lever is located at the centre rear edge of the panel just below the wiper arm.

To remove: Standing by the left hand side of the vehicle, use your right hand forefinger to push the panels release lever forwards, releasing the panel from the latch assembly.

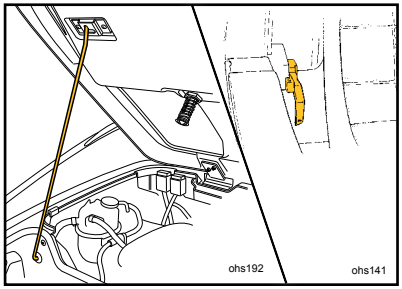
The rear of the panel will slightly raise. Pull each outer end of the panel upwards releasing the panels retaining posts from the rubber sockets. Withdraw the panel rearwards to release it from its keyhole slots.

To refit: Locate the two front pegs into the keyhole slots and slide the panel down and forwards.

Locate the panels central retaining pin into the latch: firmly pressing down until an audible click is heard.

Press each side of the panel down into their rubber sockets.

Press the access panel one final time at its centre above the latch area to confirm it is fully secured into position.



Engine Cover/Boot Lid/Tailgate
To open, Elise: Pull the release lever located outboard of the driver's seat. Raise the lid fully by hand, and support by engaging the prop provided on the boot bulkhead, into the slotted plate located in the underside of the tailgate lid.

To open, Exige: Pull the release lever located outboard of the driver's seat. Raise the tailgate gently to its maximum extent until resistance is felt from the tailgate struts indicating that maximum travel has been achieved. The tailgate will now stay in position.

⚠WARNING

When using the rear luggage compartment, beware of any hot surfaces exposed in the engine bay. Touching hot surfaces could cause serious burns.

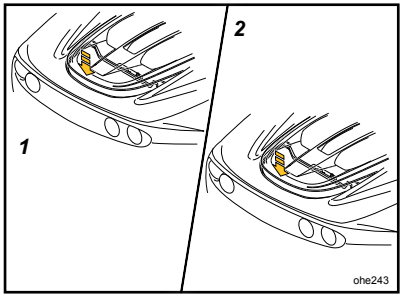
⚠WARNING

Before closing the lid/tailgate, ensure that no persons or objects will be trapped.

NOTICE: If necessary, protect and/or secure luggage as required. Allowing sharp edged or heavy items to slide or roll around the luggage compartment may cause body damage which will not be covered by the Vehicle Limited Warranty.

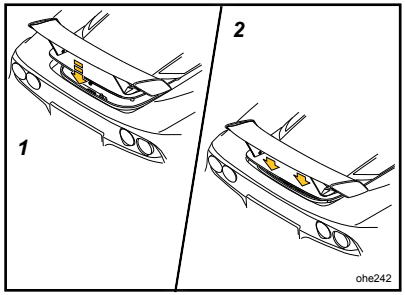
⚠WARNING

The maximum weight of goods which may be carried in the boot is 50 kg (110 lb). Exceeding this limit can overload the tyres and affect the handling of the car, and result in a crash in which you or others could be killed or seriously injured. Refer also to the 'Tyres' section in the main Owners handbook.



To close, Elise:

1. Stow the support prop in its bulkhead clip, and, keeping fingers well clear of entrapment, and ensuring that no obstruction is present, lower the lid.
2. Fully engage the latch mechanism by pressing directly over the centre of the latch, NOT at the extreme rear end of the panel.



To close, Exige:

1. Lower the tailgate onto the latch mechanism.
2. Gently push down the tailgate to fully engage the latch mechanism by pressing down directly over the centre rear edge of the tailgate i.e., from underneath the aerofoil area (if fitted).

Elise Shower Cape

Luggage space can be maximised by not transporting the soft top. Limited temporary weather protection whist the vehicle is stationary can be provided by the fitment of a shower cape to cover the cockpit area. Specific models may be supplied with a cape as a standard option, otherwise please contact your Lotus dealer for further details.

Please note: Involuntary movement of the shower cape may trigger the alarm. If fitted it is recommended to turn off the interior movement sensor before arming the alarm. Refer to page 14 for further information on the vehicle alarm system.

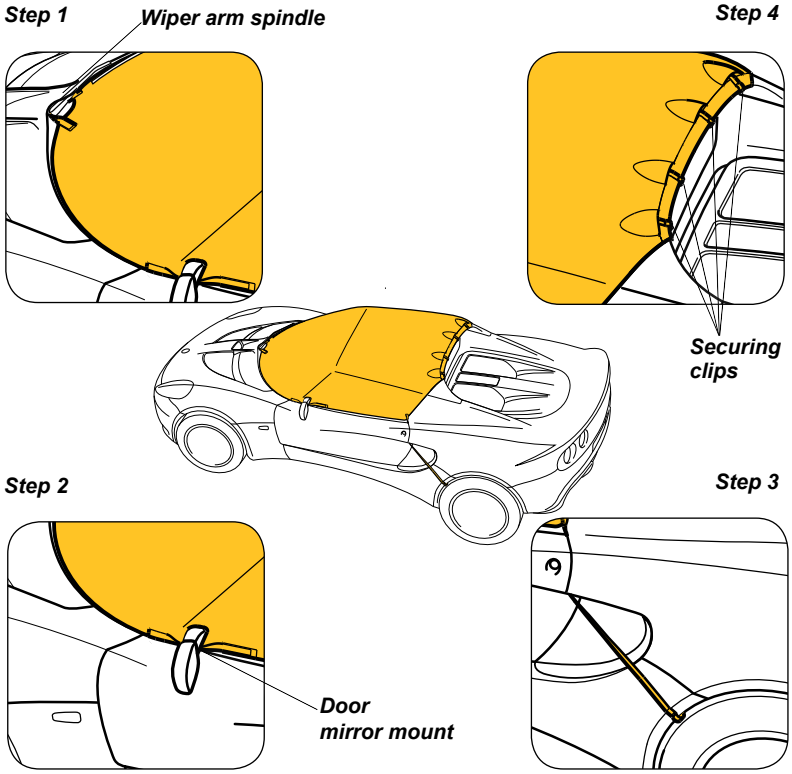
Fitting:

1. With door windows in the raised position fit the cape over the front screen and loop the velcro strap around the wiper arm spindle and fasten.

2. Fit the Velcro fasteners around the door mirror mountings and fasten.

3. Slide the capes retaining straps between the door and clamshell, fit the retaining hooks to the front of the rear wheel arches.

4. Place cape over rear window shroud area and fix in position using the 4 securing clips provided.



Soft Top - Elise & Exige S Roadster only ***(Please also see illustrations on following page)***

Please note: The complete weather sealing of the soft or hardtop roof cannot be guaranteed in all climatic conditions.

⚠WARNING

The soft top is only designed to operate up to 150mph (241km/h): therefore the Exige S Roadster is limited to a top speed of 145mph (233km/h). Using the soft top at speeds higher than this could cause death or serious injury to other road users or a crash which you or others could be seriously injured.

Never attempt to remove or refit the soft top whilst the vehicle is in motion as this could cause an accident in which you or others may be seriously injured or killed.

An insecure or an incorrectly fitted roof could cause death or serious injury to other road users or a crash in which you or others could be killed or seriously injured.

It is recommended to fit a Lotus hard top roof if weather protection is required. A genuine Lotus hardtop assembly can be ordered from any authorised Lotus dealer.

Fitting

1. Withdraw the roof assembly and support stays from its stowage bag, lower both door windows, or open both doors.

2. Insert the two roof support stays, with the arrows pointing forwards, into the slots above the rear window, and the windscreen header rail.

3. Lay the soft top across the centre of the roof space with the arrows on the side rails pointing forwards.

4. Roll out the left hand side of the roof, and engage the spigot pin on the front and rear end of the rail, into the uppermost slot in the latch blocks at the front and rear of the roof aperture.

5. Ensure that the tensioning cables at the front and rear edges of the roof canopy are correctly located in the channels between the seal and body before rotating the left hand side rail downwards. Ensure that both spring loaded pins 'click' into their ramped slots indicating that latching is complete. Pull up on the side rail to check security.

6. On the right hand side of the car, repeat steps (4) and (5) for the second side rail.

Removal

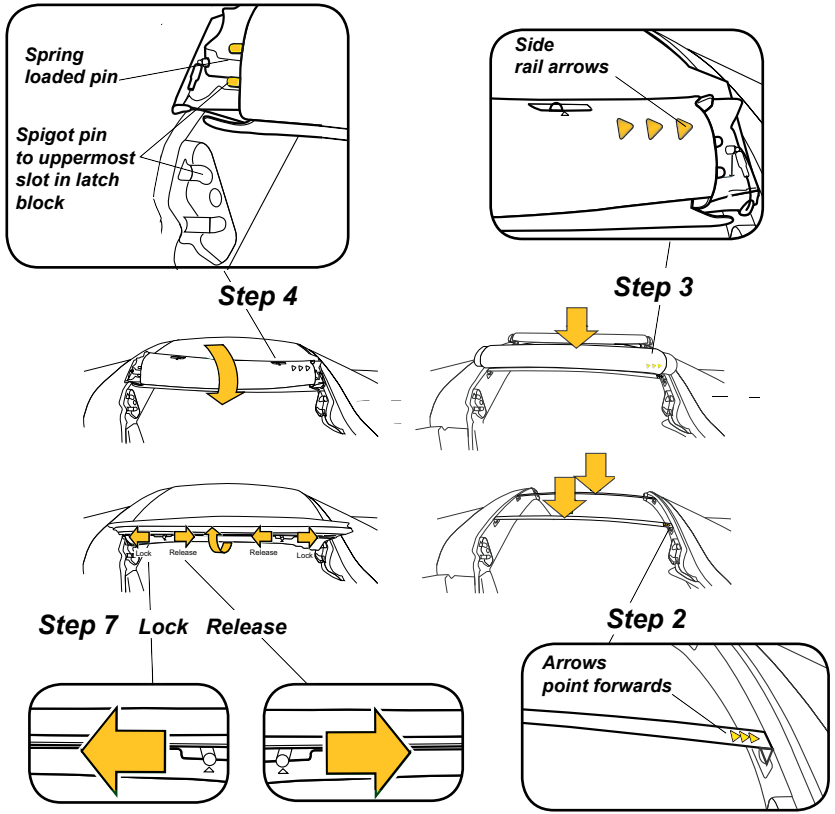
Is the reversal of fitment except:

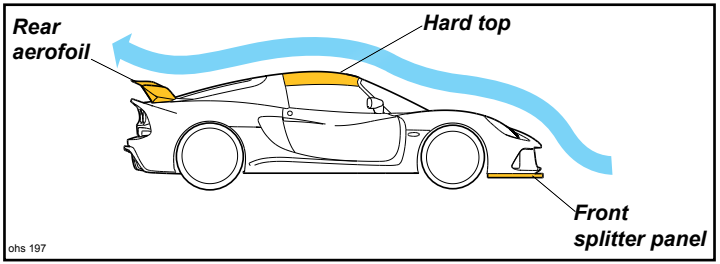
7. Locate the two latch release levers on the inside face of the front and rear of the right hand roof side rail: Pull the two levers towards each other to release the side rail latches (press down on the side rail if necessary to relieve the load on the latch pins), and rotate the rail upwards to release the canopy tension.

8. Repeat this procedure for the left hand side rail.

Important Note: If the roof is not fully dry, it should be stowed for no longer than a few days before unrolling or refitting and allowing to air dry completely. Prolonged stowage of a wet or damp roof will promote rotting of the fabric.

ELISE & EXIGE S ROADSTER SOFT TOP MOUNTING POINTS





Hard Top Roof Concept

Exige S

The hard top roof fitted to the Exige S has been designated as a permanently fixed integral body panel of the vehicle.

It is used in conjunction with the front splitter and rear aerofoil to produce the necessary down force required to ensure vehicle stability during high speed and cornering manoeuvres.

⚠WARNING

Driving the Exige S with either the hard top removed, insecurely fitted or substituted with a soft top could result in a loss of vehicle stability, reduced steering and braking response causing possible loss of control. You or others could be killed or seriously injured.

Elise & Exige S Roadster

The Elise & Exige S Roadster are not fitted with either a rear aerofoil or front splitter; therefore the vehicle does not require a roof to be fitted in order to achieve vehicle stability at high speeds.

Hard Top Roof - Fitting

Elise & Exige S Roadster

1. Open both doors, and preferably with the aid of an assistant, lower the roof onto the car holding aside the loose tethered fixings to avoid their entrapment or their causing paint damage. Position the rear edge of the roof first before locating the front edge against the windscreen header rail.

2. Locate a front spigot bracket into its latch plate lower slot (lifting the roof slightly to allow this) and retain to the roof with the Torx bolt. Use only the special tool supplied, and do not fully tighten at this stage.

3. Repeat step (2) for the opposite front spigot bracket.

4. Engage a rear cup bracket with the lower tongue on its rear latch plate, and retain to the roof with the Torx bolt. Use only the special tool supplied, and do not fully tighten at this stage. Ensure that the cup is fully located onto the tongue.

5. Repeat step (4) for the opposite rear cup bracket.

6. Using the special tool supplied, install the centre retention clamp, hand tightening its 2 Torx fixings into the roof panels centre rear mounting threads. Ensure that the clamps stepped lip is retrained against the underside of the rear header rail trim panel.

7. Push the roof fully forwards before tightening the front spigot brackets using only the special tool supplied. Hold each rear cup bracket in alignment whilst tightening the single fixing screw for each bracket and finally tightening the centre retention clamp. Do not over tighten.

8. Fit the cover panels to each rear corner of the roof, noting that the panels are handed for left and right sides. Press the panels firmly into position fully to engage the 'Velcro' fixing patches.

9. Using the special tool provided, install the windscreen header cover panel by locating first with the central screw, and then by the outer screws before tightening in the same order.

⚠WARNING

Do not drive the car with the cover panels removed. Injury could result from contact with the roof brackets in a vehicle collision.

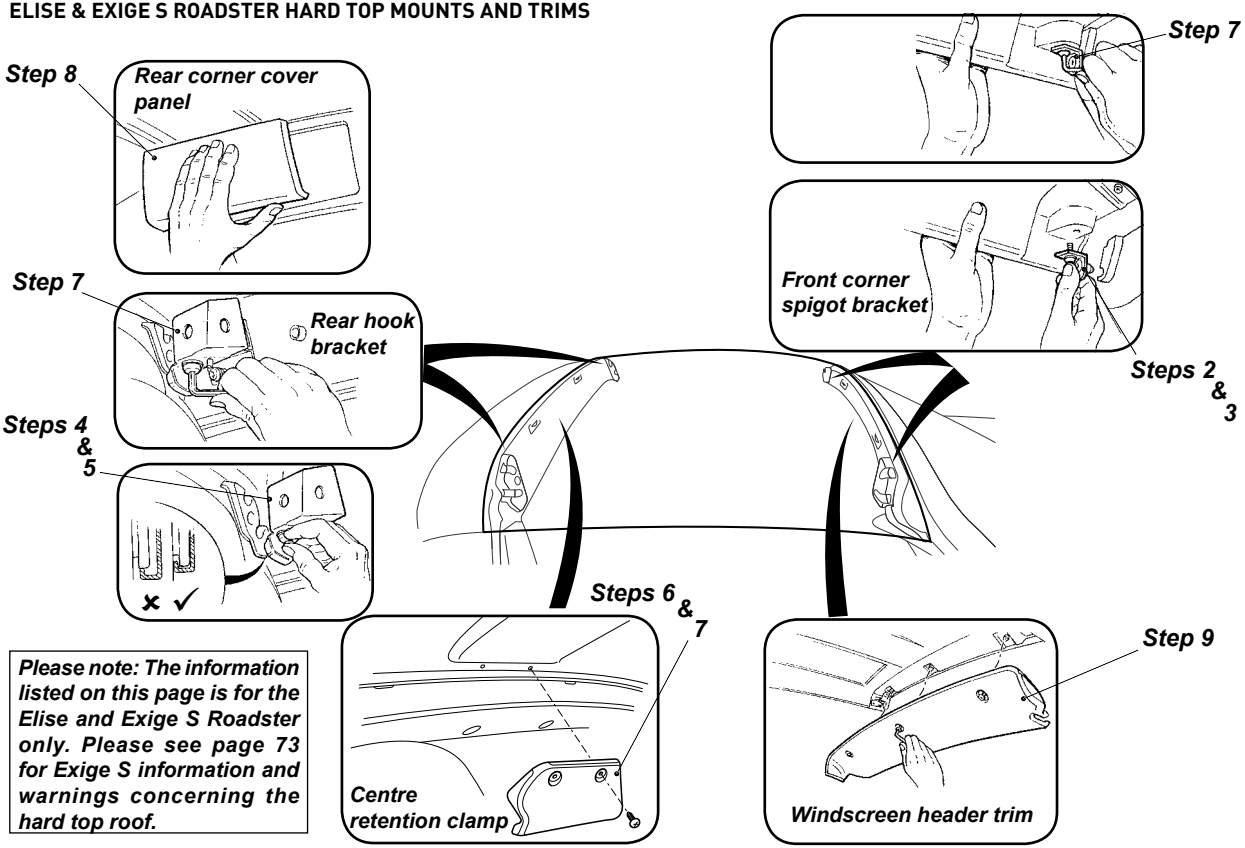
10. Check that the roof is secure by pulling upwards on each corner in turn. If any upward movement is evident, check all mounting brackets are correctly fitted.

⚠WARNING

An insecure or incorrectly fitted roof could cause death or serious injury to other road users or a crash in which you or others could be killed or seriously injured.

Please note: The information listed on this page is for the Elise and Exige S Roadster only. Please see page 73 for any Exige S information and warnings concerning the hard top roof.

ELISE & EXIGE S ROADSTER HARD TOP MOUNTS AND TRIMS



Please note: The information listed on this page is for the Elise and Exige S Roadster only. Please see page 73 for Exige S information and warnings concerning the hard top roof.

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Hard Top -Elise & Exige S Roadster only

Please note: The information listed on this page is for the Elise and Exige S Roadster only. Please see page 73 for Exige S information and warnings concerning the hard top roof.

- The hard top roof has been designed to provide a seasonal, rather than single trip option. Some owners may prefer to entrust the fitting and removal of the hard top roof to their dealer.

- When stowing the roof off the car, care should be taken to avoid damage to the roof corners; e.g. use a suitable soft floor covering on which to stand the roof.

- Fitting or removal of the hardtop is made considerably easier with the assistance of a second person.

- Use only the 'Torx' tool supplied in the vehicle tool kit to tighten or release the roof fixing screws.

- The hardtop roof fixings are tethered to the roof panel to guard against their loss.

The roof seal positions relative to the top edge of the door drop glasses (when fully raised) may alter when swapping between hard top to soft top roofs or vice versa.

To achieve optimum sealing between the door glass and the roof seal it may be necessary to adjust the door glass guide rails (located within the door shell) when changing roof types.

If required, this operation should be entrusted to your Lotus dealer, but please note that charges for adjustment under these circumstances will not be covered under the terms of the new vehicle warranty.

Hard Top - Removal
Elise & Exige S Roadster only

1. Open both doors.

2. Using the Torx tool supplied, release the three Torx screws securing the windscreen header trim panel, and remove the panel.

3. Slacken the Torx screw securing each front corner spigot bracket to the roof, but do not yet remove the screws.

4. Slacken the Torx screw securing the centre clamp to the roof, and remove.

5. Pull off the Velcro retained trim cover from each rear corner of the roof panel.

6. Remove the screw securing the cup bracket to the latch plate at each rear corner of the roof.

7. Remove the two front corner bracket fixing screws and lift the front edge of the roof slightly to release the front brackets from their latch plate slots.

8. With the aid of an assistant, lift the roof from the car taking care to restrain the tethered brackets to avoid damaging the paintwork.

Body Features

The Elise and Exige body panel construction utilises several mouldings to form a single panel assembly for the whole of the nose and front wings, and a second panel assembly for the whole of the rear body rearwards of the doors. These two moulded assemblies are fixed using threaded fasteners to permit easy removal for access to chassis or powertrain components, or to allow for simple repair or replacement.

Other composite mouldings include the door shells, sills, front body access panel, engine lid/tailgate, windscreen frame and rear bulkhead. Some panels are bonded to the aluminium alloy chassis or to neighbouring mouldings.

Several different processes are used to manufacture the various panels depending on the particular functional requirements, but all processes provide a high resistance to surface damage from minor knocks. If severe damage is caused to a composite panel where the underlying structure is broken, repairs may take the form of panel replacement, or of panel repair using techniques where new composite material is integrated with the old to result in undiminished panel strength.

The Elise and Exige are not equipped with conventional separate shock absorbing bumpers, so extra care should be taken when parking to guard against body damage. Care is also required, due to the low ground clearance, to guard against chassis underside damage caused by ramps, kerbs and road humps.

Paint Care

Also see pages 80 - 81 for additional information for vehicles finished in 'Soft Feel' paint.

Following the simple maintenance procedure summarised below will help retain the gloss, colour and protective properties of your vehicles paint throughout the life of the car. However, car finishes are not immune to damage and amongst the more common causes of deterioration are:

- Atmospheric contaminants; Dust, soot, ash, and acidic or alkaline aerosol mist can chemically attack paint.
- Tree sap and insect fluids; these can form a water-insoluble polymer that adheres to the paint.
- Bird excrement; highly acidic or alkaline, this can chemically etch the paint. Wash off immediately.
- Leaves; These contain tannic acid which can stain light finishes.
- Abrasion; Blowing sand and dust, or a dirty washing cloth can cause abrasion damage.
- Impact damage; stone chippings thrown up from poor or recently dressed road surfaces can subject the body to severe localised impact, and result in paint chips, especially around the vulnerable frontal panels. Do not follow other vehicles

too closely in such circumstances. For increased paintwork protection, Lotus strongly recommends the use of a clear coat paint protection film some of which are available from your Lotus dealer.
- Moisture entrapment; Long term use of a non-breathable car cover can trap moisture and/or induce condensation. This can promote water penetration of the paint film.

Ventilation

Water lying on the paint surface for a lengthy period will eventually penetrate the paint film. Although the effects will not be visible immediately, a deterioration in the visual quality and protective properties of the paint film will ultimately result.

It is not recommended to store a wet car in a poorly ventilated garage. If good ventilation cannot be provided, storage outside on a hard standing or under a carport is to be preferred.

Washing

NOTICE: Lotus recommends hand washing the painted bodywork. The car is a speciality vehicle not intended to be subjected to an automatic car wash. Automatic car washing machines and jet wash facilities may have a detrimental effect on the paint film and the soft top. Use of such equipment will invalidate the terms of the New Vehicle Warranty.

Many contaminants are water soluble and can be removed before any harm occurs by thorough washing with plenty of lukewarm water, together with a proprietary car wash additive (Household detergent and washing up liquid can contain corrosive salts, and will remove wax and accelerate oxidation).

Frequent washing is the best safeguard against both seen and unseen contaminants.

Wash in the shade, and use a cotton chenille wash mitt or a sponge rinsed frequently to minimise the retention of dirt particles.

Use a straight back and forth washing motion to avoid swirled micro scratches, and rinse the body thoroughly.

In order to minimise degradation from road salt, the underside of the chassis should be rinsed with clean water as soon as possible after driving on treated roads.

Many fuel filling stations offer pressure washing facilities ideal for this purpose, **but do not use on the painted bodywork, soft top roof, or around protective gaiters used on suspension, brake or powertrain components.**

Paintwork Polishing

Eventually some loss of gloss, and an accumulation of traffic film, will occur. At this stage, after normal washing, the application of a good quality liquid polish will restore the original lustre of the paint film.

Higher gloss of the paint finish, and added protection against contamination can be obtained by the use of a wax polish. However, this can only be used successfully on a clean surface, from which the previous application has been removed with white spirit or a liquid polish cleaner.

Soft Top Roof Cleaning

1. Careful vacuuming of the soft top before washing may be helpful in removing excess dust and other foreign particles.
2. Wash in partial shade rather than strong sunlight.
3. Using only clean lukewarm water and a sponge (a chamois or cloth will leave lint, and a brush may abrade the threads), wash the entire soft top uniformly. Do NOT use a detergent, which may affect the waterproofing properties of the material.
4. Rinse the whole car to prevent streaking on the paintwork.
5. Remove surface water with a sponge and allow to air dry in direct sunlight. Ensure that the roof is fully dry before stowing, as prolonged stowage of a wet or damp roof will promote rotting of the fabric.

Keeping the soft top clean by regular washing will enhance the life and maintain the appearance of the roof, and facilitate subsequent cleaning.

The use of stronger cleansers should be left to professionals experienced in handling this type of fabric as discoloration and degradation of the material may result.

The application of wax finishes, dressings or preservatives may cause stains, and should be avoided. Your dealer will be able to advise on current Lotus approved soft top care products.

Windscreen Cleaning

Use a proprietary glass cleaning product on the windscreen and other windows to ensure uninhibited vision. Clean the wiper blade with windscreen wash solvent to prevent juddering and smearing.

Alloy Road Wheels

It is recommended that the alloy road wheels are washed with the same preparation as is used to wash the bodywork. Use a brush having only nylon bristles. During the winter months, particularly when salt has been used on the roads for the dispersal of snow and ice, remove all the wheels, and wash thoroughly to remove accumulated road filth from the wheels and tyres.

Upholstery Cleaning

Cloth Trim: Normal cleaning consists of occasionally wiping lightly with a cloth dampened in a mild soap and water solution; it is important that the cloth is only dampened, not soaked. Alternatively, a proprietary upholstery cleaner may be used.

Leather Trim: The leather should be wiped over occasionally with a cloth dampened in warm soapy water. Use a mild, non-caustic toilet soap or soap flakes. Repeat the operation using a fresh cloth and water only, but avoid soaking the leather. Finish by drying and polishing with a soft dry cloth.

The manufacturers of the leather do not recommend the use of any hide 'food', and prohibit the use of petrol or detergents, furniture creams and polishes.

NOTE: The leather used in the Lotus Elise/Exige is of premium quality, specifically tanned and dyed for automotive use. As a natural material, leather ages in various ways and may, over time, exhibit signs of cracking, scuffing, shrinking, etc. Such wear is not an indication of a defect, but rather the natural maturing of the leather.

Seat Belt Cleaning

The seat belts may be sponged with warm water and should be allowed to air dry naturally before use. Do not use chemical cleaners and never attempt to bleach or dye the webbing.

Take care to avoid the ingress of foreign

bodies into the buckle mechanism that could affect the functionality of the latch. There is no provision for disassembly.

⚠WARNING

The seat belt should be replaced if the webbing becomes frayed, contaminated or damaged. Not checking or maintaining seat belts can result in serious injury or death if they do not work properly when needed. Check all the belts regularly and have any problem corrected immediately.

Footwell Cleaning

Each time the car is washed, the footwell carpet mats should be lifted and the floor surface cleaned and dried.

NOTICE: Use only correctly secured Lotus approved carpet mats in the footwells. Floor coverings made from plastic or other non-breathable materials may trap moisture and initiate surface corrosion of the footwell floors. Any damage caused by the use of incorrect mats will not be covered by the New Vehicle Warranty.

Door Lock Lubrication

In order to ensure that the mechanical door locks maintain their functionality, it is recommended that a special aerosol lock grease (available from your dealer under part number A117U6019S) be applied occasionally or as required.

Be aware that any use of silicone based general maintenance sprays can wash out the grease required for mechanism longevity.

'Soft Feel' Paint Finish

Special edition models may have specific individual panels, or be completely painted in a 'soft feel' water borne matt paint finish.

Limited Warranty

This special matt finish paint is not as durable as Lotus' standard paint finishes. The Company therefore warrants that the paint finish will be free from defects in material and workmanship for a period of 12-months or 12,000 miles/20,000 km, whichever occurs first, after the first instance/occurrance of the following events:-

a. Date of delivery of the car to the retail owner; or
b. First registration of the car, whether as a dealer demonstrator or otherwise.

This finish is resistant to most normal forms of atmospheric attack provided the special cleaning and maintenance requirements as specified by Lotus are strictly adhered to.

However due to the textured matt finish, fading or discolouration of all or part of the matt paint finish may occur during the early life of the vehicle and this is considered normal and is specifically excluded from

any warranty given by Lotus.

Any damage to the car's paint finish will require specialist and skilled paint repairs.

In any event any repairs may result in a build up or 'stepping' between the matt and gloss finishes used on the car and shade variations in the paint finish as the car ages. Again this is considered normal and is excluded from the Limited Warranty.

Cleaning and Maintenance
The special matt paint finish applied to the car requires special cleaning and maintenance procedures to be followed.

Paint care products are listed below and available to order from your Lotus dealer. These should be the only products used on the matt finish soft feel panels.

Lotus approved cleaning products:

Part Number	Description
A000Z9101Z	3M/Sia fine abrasive pads
A000Z9018Z	Go-Foam
A000Z9147Z	Armor All Protectant solution

Cleaning Procedure

- Avoid washing the car in direct sunlight.
- Use only automotive specific salt-free detergents with clean water when washing.
- Thoroughly rinse all traces of detergent from the body with clean (preferably demineralised) water and dry with a clean absorbent cloth before attempting to remove any stubborn contamination with specific Lotus approved cleaners.
- Use only Lotus approved Sia fine (grey) abrasive pads in conjunction with Lotus approved automotive detergent in water to remove any insect remains, tar spots and stubborn contamination from the car's matt paint finish.
- Spray the Lotus approved detergent solution onto the affected area and allow to soak thoroughly before gently abrading in small circular movements to remove the contamination. Avoid heavy abrasion as this will mark the car's matt paint surface.
- Dry the area and clean using 'Go-Foam'. When this has been wiped dry, apply only 'Armor All Protectant' solution with a clean micro-fibre cloth, turning the cloth regularly until a clean dry surface is achieved.
- Avoid contact with any wax or other polishing materials on the matt surface when polishing the gloss black stripe areas.
- Similarly, avoid using any abrasive materials when polishing the gloss black stripe areas, as the gloss finish may be damaged.
- Aggressive solvent based cleaners should not be used to clean the car's matt paint finish.
- Wax or abrasive polishes should not be used on the car's matt paint finish as these will mark and contaminate the car's matt paint finish and may prove very difficult to remove.
- Use of cleaning or paint care products not approved by Lotus, or failure to follow the paint care and maintenance procedures may result in detrimental affects to the car's paint finish and could invalidate the Limited Warranty in respect of the car's paint finish.

Owner Performed Maintenance
Remember that fuel consumption and wear and tear of the car are affected considerably by the way the car is driven and maintained.

Be sure to carry out the simple weekly maintenance checks detailed in this section (daily if covering high mileage or touring), and to have the car serviced regularly by your Lotus dealer, in order to ensure maximum safety, reliability, longevity and pleasure of ownership.

It is important that the Maintenance Schedule (see separate booklet) is followed at the specified time and distance intervals (this is a requirement of the warranty), and that the car is kept in proper operating condition.

Lotus models are designed as road going sports cars. It is recognised that owners may wish to use their car occasionally on closed circuits or private test tracks.

However, use of the car in a competitive manner, including timed runs or laps, is not endorsed by Lotus, and the greater degree of wear and tear and effects of increased stress on parts and components will not be covered by the New Vehicle Warranty.

NOTICE: Failure to follow and comply with the Maintenance Schedule may invalidate the terms of the New Vehicle Warranty, and may result not only in a loss of fuel economy and emission control, but cause damage to the catalytic converters.

⚠WARNING

If an owner elects to use their vehicle on a closed circuit track or in a competitive manner, the severity of operating conditions demands that appropriate levels of expert car preparation, servicing (over and above that specified in the Maintenance Schedule) and vigilance will be required, including careful inspection of all safety critical components both before and after any track or competition session.

NOTICE: Attempts at vehicle maintenance with inadequate knowledge, tools or equipment, could result in vehicle damage. Consult your Lotus dealer in all cases of doubt.

⚠WARNING

Attempts at vehicle servicing with inad equate knowledge, tools or equipment, could endanger you, your passengers and other road users. Consult your Lotus dealer in all cases of doubt.

Beware of hot surfaces in and around the engine bay, including the engine cover itself. You could be seriously burnt by touching a hot engine part.

Take great care not to drop flammable liquids or objects onto a hot engine which could start a fire.

Beware of rotating engine components; to avoid injury, guard against entrapment of hands, hair, other body parts, loose clothing and tools.

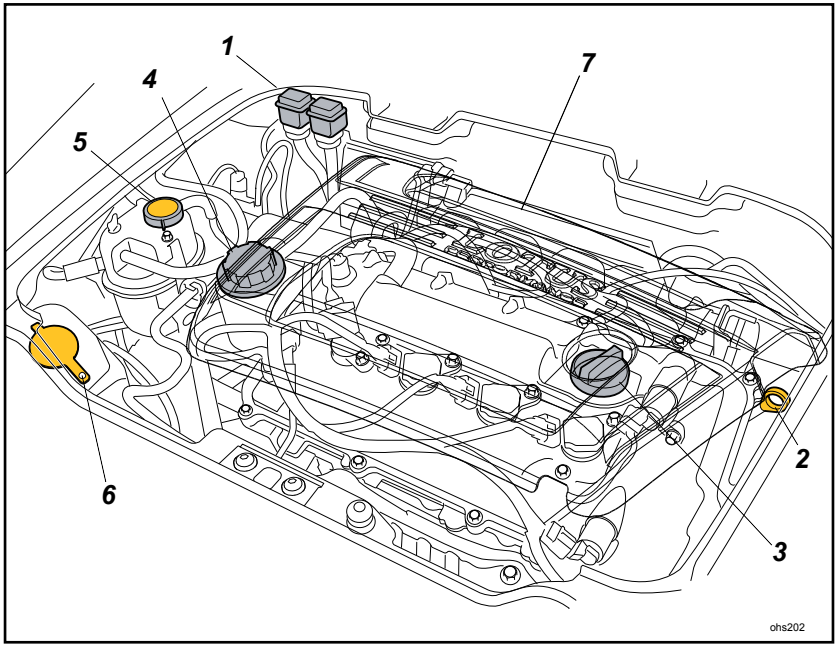
The front mounted electric fans can start up and cause injury even when the engine is not running. Keep tools, hands and clothing well away.

The voltages produced with this ignition system can cause serious and potentially fatal injury. Never touch any ignition components when the engine is running or being cranked.

Never work inside the engine compartment when an automatic transmission gear has been selected.

Engine Compartment - Elise S
(Elise similar)

1. Engine compartment fuses
2. Engine oil dipstick
3. Engine oil filler cap
4. Charge cooler coolant reservoir (Elise S only)
5. Engine coolant header tank
6. Windscreen washer reservoir
7. Engine cover panel



Engine Cover Panel
A lightweight cosmetic panel is fitted onto the top of the engine.

To remove: Pull upwards to release the four rubber sockets.

To refit: Centre the oil filler cap in the panels cut-out, and press down over each peg.

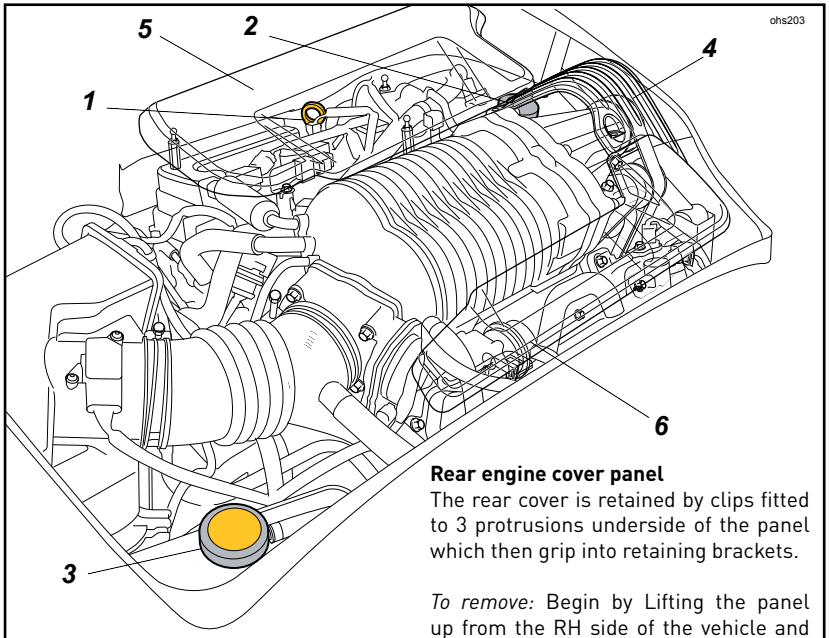
Engine Compartment - Exige S

1. Engine oil dipstick
2. Engine oil filler cap
3. Engine coolant header tank
4. Supercharger pulley cover
5. Front engine cover
6. Rear engine cover (If fitted - Dealer option)

⚠WARNING

The supercharger pulley and drive belt are partially exposed even with the engine cover panels fitted in place.

To avoid injury, and to guard against entrapment of hands, hair, other body parts, loose clothing and tools etc. please take care when working around the supercharger and drive belt area even if the engine is not running.



Front engine cover panel

To remove: Pull the panel upwards to release it from the retaining studs.

To refit: locate all 3 rubber sockets onto the studs and press down.

Rear engine cover panel

The rear cover is retained by clips fitted to 3 protrusions underside of the panel which then grip into retaining brackets.

To remove: Begin by Lifting the panel up from the RH side of the vehicle and retrieve the clips as they pull away from the panel protrusions. This will prevent them from falling into the engine bay.

To refit: Fix the clips back onto the panels underside, then press the panel onto its retaining brackets.

Engine Oil

⚠WARNING

The engine cover lid may become hot to the touch in high ambient temperatures and/or after hard driving. Allow the car to cool, or wear appropriate protective clothing before attempting to access the engine bay.

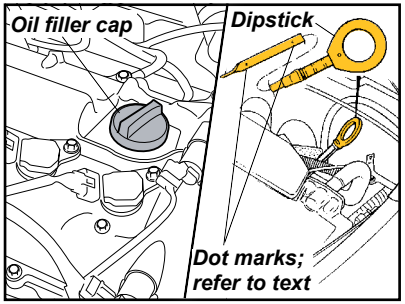
Engine oil is hazardous to your health and may be fatal if swallowed.

Prolonged and repeated contact with used engine oil may cause serious skin disorders, including dermatitis and cancer.

Use protective gloves to avoid contact with skin as far as possible and wash skin thoroughly after any contact.

Take all suitable precautions to guard against scalding from hot oil and hot surfaces.

Keep out of reach of children.



Engine Oil Level Check

The engine oil level should be checked regularly, e.g. every 1,000 miles (1,600 km), or sooner if the vehicle has been driven hard.

The best time to check the level is before starting a cold engine, if you have to check the level when the oil is warm, such as during a fuel stop ensure that the car is parked on a level surface and that a few minutes have elapsed since stopping the engine to allow oil to drain back into the sump.

If the engine is run but stopped before reaching normal running temperature, the oil will not readily drain back into the sump, and the dipstick will display an artificially low reading.

Dipstick: The dipstick is identifiable by its yellow loop handle, and is located at the right hand front of the engine.

If access to the dipstick is required when the engine is hot, be aware of the many hot surfaces in the engine bay and wear appropriate protective clothing to prevent burn injuries.

Withdraw the dipstick, and wipe with a paper towel. Replace the dipstick, if necessary feeding the blade into the tube using the towel, before pressing firmly to ensure that the handle is fully seated up to the collar. Withdraw the dipstick again to inspect the oil level.

The level should lie between the two dots on the lower end of the dipstick. For optimum engine protection, maintain the level towards the top mark, and do not allow to fall below the mid-point.

The difference between high and low dipstick marks is equivalent to approximately 1.0 litre for Elise and 1.5 litres for Exige.

If driving on a closed circuit track, or exploiting maximum cornering capability, it is especially important to maintain at the upper marking. Refer also to the Warranty

Booklet section 2 'Intended Purpose'.

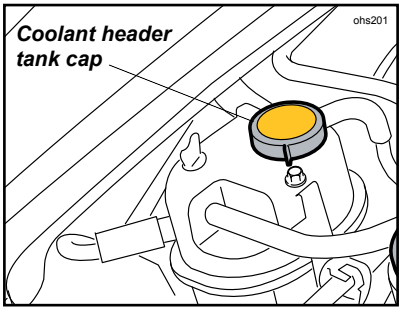
Topping Up: If topping up is necessary, unscrew the oil filler cap. Add a suitable quantity of the recommended engine oil (see 'Recommended Lubricants', page 118) taking care not to spill any oil onto the engine or electrical components; use a funnel if necessary and clean up any spillage.

Allow several minutes for the oil to drain through to the sump before re-checking the oil level.

Refit the filler cap, turning clockwise until secure.

NOTICE: Do NOT overfill, or lubrication will be degraded and consumption increased as the oil becomes churned and aerated. The catalytic converter may also be damaged by oil content in the exhaust gas.

Any track oriented car fitted with an Accusump oil reservoir requires a specific oil level checking procedure; see handbook supplement LSL528.



Engine Cooling System
The engine cooling system reservoir is mounted at the left hand side of the engine bay, identified by its black filler cap with an inset circular yellow warning label.

Under normal circumstances it should not be necessary to add any coolant to the system. If overfilled, the excess coolant will be ejected when the engine is warm.

Coolant Level Check
Check when the engine is fully COLD, and only when the car is on a completely level surface, without disturbing the pressure cap, check the level of coolant in the translucent header tank. The maximum recommended cold level is 10mm below the horizontal moulded seam running around the tank, with the lowest acceptable level being 25mm below the seam.

Topping up: Ensure that the coolant is fully cold before slowly unscrewing the filler cap allowing any remaining pressure to escape before finally removing the cap.

⚠WARNING

Do NOT attempt to remove the pressure cap from the header tank when the engine is warm as serious scalding could result from boiling water and/or steam.

Coolant is hazardous to your health and to animals and may be fatal if swallowed.

Keep coolant out of reach of children.

Clean up spilled coolant and do not leave in open containers.

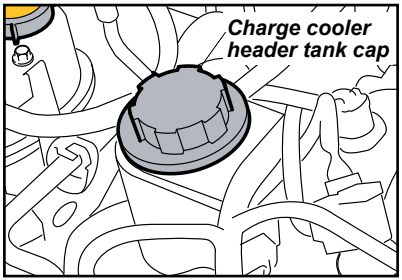
Top up the header tank to the 'full' level, refit the cap, and turn clockwise until the tab on the cap engages a detent, at which position an abutment prevents any overtightening.

Anti-Freeze/Coolant Mixture
In order to maintain protection from freezing damage and metal corrosion, use only an approved coolant mixture (see recommended lubricants section for specification).

NOTICE: No other type of coolant should be mixed with the coolant type specified in the recommended lubricants section of this handbook, or degradation of the cooling system may result.

NOTICE: Using an incorrect coolant mixture may result in expensive damage to the engine and/or other components caused by overheating, freezing or corrosive effects. Such damage is not covered by the New Vehicle Warranty.

In order to control heat soak effects after engine shut down, a coolant re-circulation pump may be heard running, possibly supplemented by the cooling fans, during a 20 minute period after switching off the ignition.



Charge Cooler Reservoir – Elise S only

To maintain optimum performance, supercharged air is cooled before it enters the engine using an air-to-liquid charge cooler system.

The charge cooler system utilises its own dedicated coolant circuit with a coolant reservoir mounted on the left hand side of the engines cylinder head.

The reservoir is identified by its black filler cap which has no visual markings or labels attached.

Under normal circumstances it should not be necessary to add any coolant.

NOTICE: If underfilled, optimum charge cooling will not be achieved, premature wear to the charge cooler systems electrically operated pump may also occur.

Charge Cooler Coolant Level Check

Although the system is not pressurised, the coolant may still reach temperatures in excess of 50ºC (122ºF), so caution should still be taken when checking the level.

Ensure the vehicle is on a completely level surface, turn off the engine to deactivate the charge cooler pump and unscrew the reservoir cap.

There are no level marks incorporated into the coolant reservoir, topping up is not required if the reservoir is ½ to ¾ full of coolant.

⚠WARNING

Coolant is hazardous to your health and to animals and may be fatal if swallowed.

Keep coolant out of reach of children.

Clean up spilled coolant and do not leave in open containers.

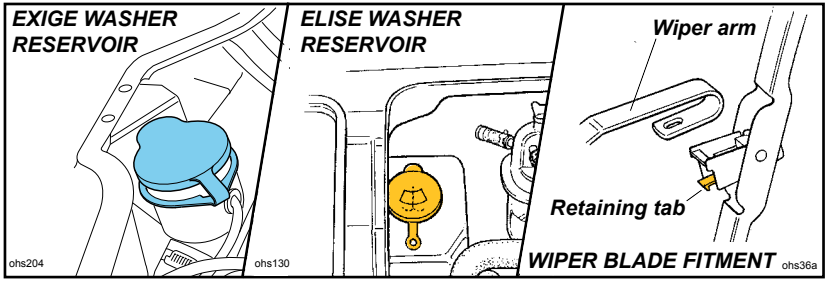
Topping up: Top up until the reservoir is approximately ½ to ¾ full, refit the cap, and turn clockwise until secure.

Anti-Freeze/Coolant Mixture

The charge cooler system uses the same specification and mixture ratio as the engine cooling system. In order to maintain protection from freezing damage and metal corrosion, use only an approved coolant mixture (see recommended lubricants section for specification).

NOTICE: No other type of coolant should be mixed with the coolant type specified in the recommended lubricants section of this handbook, or degradation of the cooling system may result.

NOTICE: Using an incorrect coolant mixture may result in expensive damage to the engine and/or other components caused by overheating, freezing or corrosive effects. Such damage is not covered by the New Vehicle Warranty.



Washer Reservoir

Elise: The windscreen washer reservoir is situated at the left hand rear of the engine bay, The reservoir is identified by its yellow filler cap colour and symbol.

Exige: The windscreen reservoir is situated ahead of the left hand front wheelarch, with a remote filler tube provided beneath the front body access cover. Release the cover (see page 68) and remove. The filler tube is identified by its blue filler cap and symbol.

Topping up: Prise off and top up with clean water and a suitable proprietary washer fluid, (please see notice on next page), refit the cap securely and refit the access cover. For reservoir capacity please refer to page 120 in the Technical Data section.

Washer Jets

The washer jets are mounted each side of the wiper spindle, and may, if necessary, be cleared or adjusted using a suitable pin.

Wiper Blade

To replace the wiper blade, lift the arm away from the windscreen, swing the blade through 90°, depress the retaining tab and slide the blade down the arm to unhook and release.

When refitting, ensure that the retaining clip is re-engaged in the wiper arm slot.

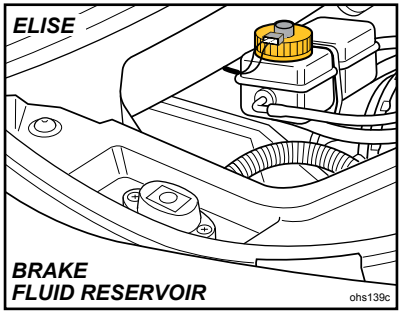
NOTICE: Do **NOT** use radiator antifreeze in the reservoir as this could seriously damage the paintwork and/or some plas tic components. A good quality product should be used and mixed as per the manufacturers recommendations as an insufficient concentration may result in the vehicles headlamp washers freezing in severe conditions.

Brake Fluid Reservoir

Under normal circumstances, there is no requirement for routine 'topping up' of the brake master cylinder reservoir. A visual safety check is all that is required.

Every week, check the level of fluid in the brake fluid reservoir located beneath the drivers side of the front body access panel (see pages 67 - 68).

It can be identified by its yellow filler cap incorporating a black brake fluid level sensor switch, which is linked to the red 'brakes' tell tale in the instrument panel, and provides a warning in case of low fluid level, See page 30.

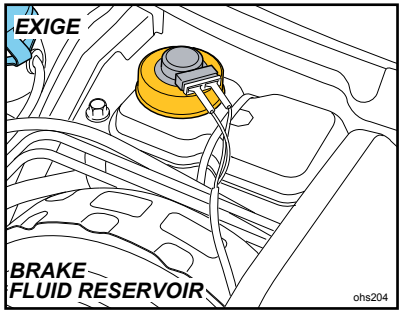


Brake Fluid Level Check

Without disturbing the filler cap, check that the level is in between the 'MAX' and 'MIN' marks moulded on the translucent reservoir body.

As the brake pads wear, the level will drop gradually from the 'MAX' mark towards the 'MIN', but **if the level drops rapidly over a short period, have your Lotus dealer investigate without delay.** If the level is found to be below the 'MIN' mark, it is likely there has been some fluid loss, and that air will have entered the hydraulic system.

The car should not be driven until the fault has been investigated and rectified. Note that a single reservoir is used to supply the hydraulic clutch release circuit.



Topping up: If any fluid is to be added, first clean the surrounding area to guard against dirt ingress before unscrewing the reservoir cap. Take suitable precautions to prevent rain water or other contamination whilst the cap is removed.

NOTICE: Spilled brake fluid can seriously damage the car's paintwork and some plastic components. Take suitable precautions to protect the paintwork from contamination and in case of spillage, do not wipe, but thoroughly rinse the affected area with water immediately.

Use only a non-mineral type DOT 4 brake fluid from a sealed container marked with a yellow and black (non-mineral) symbol. Do not use DOT 5 silicone fluid, or any fluid which has been exposed to the at-

mosphere for more than a brief period, or any fluid suspected of being wet, dirty or contaminated. Do not overfill. Replace the cap securely.

Brake fluid, being hygroscopic, absorbs water from the atmosphere over a period of time, resulting in a lowering of the boiling point of the fluid, and corrosion of the hydraulic system.

⚠WARNING

For optimum safety and brake performance, the brake fluid should be renewed every two years by your Lotus Dealer.

Brake fluid is hazardous to health and may be fatal if swallowed. Keep out of children's reach.

Using the wrong type of brake fluid can damage brake system components and result in brake failure causing a crash in which you and others could be killed or seriously injured. See 'Recommended Lubricants'.

Tyres

Tyre Safety

Lotus engineers have worked with tyre manufacturers to produce tyre specifications for the Elise/Exige which optimise performance for all round use.

To ensure that any replacement tyres are to the correct Lotus specification, always refer to your Lotus dealer, who will have the latest recommendations.

⚠WARNING

In order to achieve optimum handling characteristics, the wheel and tyre sizes on the vehicle are different front and rear. This means that interchanging of wheels and tyres between axles is not permissible. Failure to adhere to this requirement will adversely affect the handling of the car and may result in an accident in which you or others could be killed or seriously injured.

Damaged, poorly maintained or improperly used tyres are dangerous and may cause an accident in which you or others could be killed or seriously injured.

⚠WARNING

Safety considerations should always be paramount when assessing tyre condition and serviceability. Replace tyres if any doubt exists, or if the legal tread depth limits are approached.

Installing or using improper or excessively worn tyres on your car can affect handling and stability. Always use the size and type of tyres recommended in this handbook.

Over or under-inflated tyres can overheat, resulting in a blow out which may cause a serious accident.

Over-inflated tyres are more likely to be cut, punctured or broken by a sudden impact - such as hitting a pothole.

Improperly inflated or worn tyres are more likely to aquaplane in wet conditions.

Check all tyres frequently and keep tyres at the recommended pressure. Check/adjust tyre pressures only when the tyres are cold (i.e. the car has been stationary for a minimum of 3 hours, or has been driven less than 1 mile/kilometre).

On cars which are not fitted with a tyre low pressure tell tale lamp it is especially important regularly to check pressures.

⚠WARNING

On cars used on a race track or in a competitive manner, special vigilance is required due to the severity of tyre operating conditions. Careful inspections must be carried out before and after each session. Note: Lotus does not endorse such use of the Elise or Exige S - refer to the Warranty Booklet section 2 'Intended Purpose'.

Tyre Care

Take care when parking to avoid tyre contact with high or sharp edged kerbs. Such mistreatment can cause internal damage to the tyre structure and this may not be readily apparent. The wheel rims may also be distorted or damaged by careless parking, and result in wheel imbalance or loss of tyre pressure. Similar damage may also be caused by potholes, rocks or other highway debris.

Tyre Inspection

The tyres should be regularly inspected for signs of cuts, abrasions or other damage, and for any uneven tread wear patterns. Uneven tread wear may indicate that the suspension geometry or dampers require attention from your dealer.

Wear indicators are moulded into the bottom of the tread grooves at intervals around the tyre, indicated by small pointers on the outer tread blocks. The tyres should be replaced before being worn to this minimum legal tread depth.

When driving on wet roads, surface water is squeezed out from between the tyre and road.

However excessive speed or water depth can overwhelm the water clearing capability of the tread and lead to a condition called 'aquaplaning' or 'hydroplaning', where the tyre rides on a film of water and provides little or no grip on the road surface, leading to a loss of control.

This condition is more likely to occur with worn tyres having little depth of tread, or with incorrect tyre pressures.

Drivers should keep a vigilant check on tyre wear and condition, and moderate their speed in adverse weather conditions.

Checking & Adjusting Tyre Pressures

The cold tyre pressures should be checked every week, or every 1,000 miles (1,700 km), whichever is the sooner, and corrections made as necessary. See 'Technical Data' at the back of the handbook for the recommended tyre pressures.

Under-inflation will cause excessive wear, rapid deterioration of the tyre sidewalls and heavy steering, whereas over-inflation results in a hard ride and increased susceptibility to tyre damage. Both conditions will cause a degradation in the handling qualities.

It is important that the tyre pressures are adjusted only when the tyres are cold (when the car has been standing for a minimum of 3 hours, or driven less than 1 mile/kilometre), as the pressures may increase by 0.3 - 0.5 bar (4 - 8 lb/in^2) when the tyres are warmed to normal running temperature.

Always replace the tyre valve dust cap to prevent the ingress of dirt and moisture into the valve, which could cause leakage. Many fuel filling stations provide tyre inflation facilities. Follow their instructions carefully. For tyre pressure information, refer to 'Technical Data' (see page 122).

Tyre Characteristics

The Yokohama Advan Neova AD07 or A048 tyres fitted to the Elise and Pirelli P Corsa fitted to the Exige are suitable for all normal weather conditions but are optimised for dry road sports driving.

Note: Trofeo tyres are available as a dealer fit option and are primarily designed for racetrack driving. In the event of wet road conditions with the risk of aquaplaning, prudent driving at a reduced road speed is recommended.

The construction of the AD07 tyres have-been specially tailored for the Elise and are identified by the letters 'LTS' moulded on the tyre sidewall*.

The Pirelli P Corsa tyres have 'LS' markings moulded on the tyre sidewall and should only be replaced with the same type.

The tyre characteristics include good feedback ('feel') from the road surface to the steering wheel, a high level of steering linearity and response, and little performance degradation with the raised temperatures which may be reached in high speed use.

*Note: Dependant on the model year and build date of your Elise the Advan Neova

AD07 tyres originally fitted at the factory may not display the 'LTS' moulding on the tyre sidewalls.

However, tyre performance will decrease at low ambient temperatures, resulting in reduced levels of grip and an increased susceptibility to damage from impacts.

If the car is to be used in winter, or in cold conditions, it is recommended to fit a car set of the recommended winter tyres.

Winter Tyres
If the car is to be used in winter or in cold conditions, or driven on snow covered roads, it is recommended to fit a car set of winter tyres developed specifically for such conditions.

Lotus approves the use of Pirelli winter tyres in sizes as specified in the 'Technical Data' section.

Elise: Pirelli 210 (front) and 240 (rear).
These tyres should be fitted on regular Elise wheels.

Exige: Pirelli SottoZero Serie II.

These tyres should be fitted on 7.5J ET 26.3 wheel rims (front) and 8J ET 14.5 wheel rims (rear).

The specific tyres and wheel rims recommended are available to order from your Lotus Dealer.

⚠WARNING

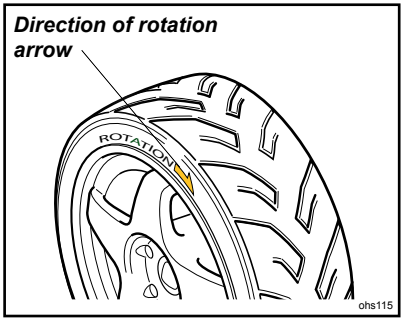
Winter tyres are optimised for use on snow covered roads. When used on roads free of snow, winter tyres will produce different handling characteristics and less grip compared with regular tyres.

When winter tyres are fitted, a maximum speed of 118 mph (190 km/h) must be observed.

Pirelli Snowsport tyres are NOT suitable for studding.

Tyre Chains
In extreme weather conditions, Lotus approves the fitment of RUD-matic Classic R48493 snow chains used only in conjunction with winter tyres (see above) and fitted only on the rear wheels.

Close attention should be paid to the fitting and tensioning instructions supplied with the chains. The chains should be removed as soon as road conditions allow.



Replacement Tyres
When replacing tyres, refer to the 'Technical Data' section in this handbook, or consult your dealer to check the current Lotus specification and recommendations. Do not use tyres which have not been approved by Lotus.

Note: Some tread patterns are asymmetric, such that the tyres must be fitted to the wheels the correct way round. Refer to the 'side facing inwards' or 'side facing outwards' marking on the tyre sidewall. In addition, some tread patterns are directional, in which case a direction of normal rotation arrow will be included in the tyre sidewall markings.

Wheel Balancing
When balancing the wheel and tyre assemblies, the wheels should be located by the centre spigot hole - NOT by the wheel bolt holes. In order to maintain the correct handling feel and minimum steering wheel shake, it is very important that the radial and lateral run out of the tyres are to the high standard required by Lotus Cars. If any difficulty is experienced with replacement tyres, refer to the tyre manufacturer.

Tyre Pressure Monitor System (TPMS)
(Also refer to replacement tyres)
If the car is equipped with the Tyre Pressure Monitoring System (TPMS), ensure that the tyre technician is made aware that each tyre valve includes a pressure transducer which should not routinely be discarded.

Care must be taken not to damage the sensor with the tyre bead or tools. If a fault is indicated after wheel or tyre replacement, it is likely that a sensor has been incorrectly fitted or damaged.

If a tyre valve/sensor is renewed, or is moved to a different wheel position, the TPMS will automatically identify the new configuration.

Note: The pressure sensors are powered by integral batteries, with an average service life of 10 years. It is recommended to renew all pressure sensors at this time interval.

Valve Cap Replacement
Only plastic valve caps should be fitted to a TPMS tyre valve. The fitment of a metal cap may cause galvanic corrosion between the metal cap and the stem of the aluminium valve.

The resulting damage caused to the valve whilst trying to remove the corroded cap could also cause a TPMS system failure.

Uniform Tyre Quality Grading
The following information relates to the system developed by the United States National Highway Traffic Safety Administration, which grades tyres by treadwear, traction and temperature performance. The grades are moulded on the sidewalls of most passenger car tyres between the tread shoulder and maximum section width. For example:

Treadwear 180 Traction AA Temperature A
Treadwear - The treadwear grade is a comparative rating based on the wear rate of the tyre when tested under controlled conditions on a specified government test course. For example, a tyre graded 150 would wear one and a half (1.5) times as well on the government course as a tyre graded 100.

The relative performance of tyres depends, however, upon the actual conditions of their use, and may differ significantly from the norm due to variations in driving habits, service practices, and differences in road characteristics and climates.

Traction - AA, A, B, C: The traction grades, from highest to lowest are: AA, A, B, and C. They represent the tyre's grip on wet roads as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tyre marked 'C' may have poor traction performance.

⚠WARNING
The traction grade is based on braking (straight ahead) tests and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.

Temperature - A, B, C: The temperature grades are A (the highest), B, and C, representing the tyre's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel.

Sustained high speed cruising, or a demanding driving style can generate high tyre temperatures which can cause the material of the tyre to degenerate and reduce tyre life.

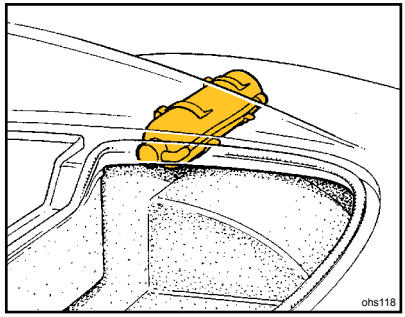
⚠WARNING

Excessive temperature can also result in sudden tyre failure. Temperature grade 'C' is a level of performance which all passenger car tyres must meet. Grades 'B' and 'A' represent higher levels of performance on the laboratory test wheel than the minimum required by law.

The temperature grade is established for a tyre that is properly inflated and not overloaded. Excessive speed, under inflation, or excessive loading, either separately or in combination, can cause heat build up and possible tyre failure.

Do not exceed the vehicle maximum total weight, or maximum front or rear axle weights (see 'Technical Data'). Exceeding these limits may cause unstable handling or car or tyre damage which could cause a crash in which you or others could be seriously injured or killed.

The Elise/Exige should never be used to tow a trailer or another vehicle.



Tyre Emergency Inflator Aerosol

There is no provision for spare wheel carriage or lifting jack. A tyre emergency inflator aerosol is supplied and mounted in spring clips at the extreme right hand front corner of the rear luggage compartment.

When the aerosol is connected to the tyre valve, and the button pressed, a mixture of liquid latex and propellant is injected into the tyre. The solidifying latex is forced into the puncture site as the tyre is inflated, effecting a temporary repair and enabling the car to be driven at low speed to the nearest tyre depot.

If possible, avoid driving on a deflated tyre, or irreparable damage to the tyre structure may be caused. If it is necessary for safety reasons to drive on a deflated tyre, it is

recommended that the inflator should be used as described even if the extent of tyre damage does not allow successful sealing and inflation. The latex fluid will help to lubricate the inside of the tyre and prolong the distance the car can slowly be driven on the flat tyre.

⚠WARNING

Use of the aerosol does not constitute a permanent repair, but is designed to allow the car to be driven to the nearest tyre depot. At the earliest opportunity, the tyre should be either professionally repaired or replaced dependent on the severity of the damage.

Until the tyre is repaired or replaced, the car should be driven only in a moderate manner, not exceeding 30 mph (45 km/h).

Do not use the aerosol for large holes or splits, or when the tyre sidewall has been damaged, or if the tyre has been displaced from the rim.

For safety reasons, the aerosol should be carried only in the designated secure stowage position. Never carry loose in the passenger compartment.

Directions For Use of The Aerosol

Before using, carefully read all the instructions on the canister, or on any literature accompanying the product.

The following instructions apply to the use of Holts Tyreweld:

1. Remove the object causing the puncture, and position the wheel with the puncture site (if determinable) lowermost. Deflate tyre fully.
2. Shake the can vigorously. In cold conditions, warm the can using the car's heater outlets, or by body warmth.
3. Screw the aerosol tube onto the tyre valve, remove the cap, hold the can upright and press the button until the tyre is firmly inflated.
4. Immediately drive for 6 - 12 miles (10 - 20 km) (or to the tyre repair facility if nearer) in a moderate manner and not exceeding 30 mph (45 km/h), to allow the sealant to spread. Then check and adjust the tyre pressure as necessary.
5. Have the tyre professionally repaired or replaced at the earliest opportunity, and until such time, limit speed to 30 mph (45 km/h) with a moderate driving manner. Note that some tyre repairers may make an additional charge for cleaning the sealant off the tyre before repair and that any subsequent repairs may not be guaranteed. Be aware that the electronic pressure sensor mounted inside the tyre and integral with the tyre valve, could be obstructed by the sealant, and should be renewed.
6. Renew the emergency inflator aerosol.

Tyre Pressure Monitor System (TPMS)

Note: If tyre replacement has required the use of the emergency inflator aerosol then the electronic pressure sensor mounted inside the wheel (if fitted) which is integral to the tyre valve, could be obstructed by sealant, and should be renewed to prevent inaccurate Tyre Pressure Monitor System (TPMS) readings and warnings.

Wheels
Ensure that only original equipment, or Lotus approved wheel and tyre combinations are fitted.

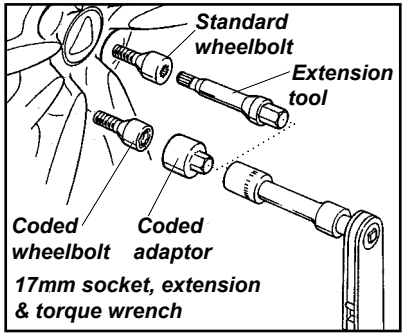
After striking a pothole or kerb, the wheels should be removed and the wheel and tyre thoroughly inspected for damage. If necessary, renew the wheel and/or tyre. Safety considerations should always be paramount and new parts fitted in any cases of doubt.

Wheel Bolts
The wheel bolts used on the Elise and Exige are designed to match the wheel hole profile and hub thread, and should not be substituted by any other bolt.

Wheel Removal
For advice and information on lifting the vehicle, refer to 'Lifting the Elise/Exige' on page 113.

Before carrying out this procedure please ensure:

- The vehicle is parked on level, stable non-slippery surface away from moving traffic.
- Switch on the hazard warning light switch and if necessary set up a warning triangle at a sufficient distance to the rear. Comply with any local legislation required.
- All occupants must get out of the car, and must move to a safe place away from any oncoming traffic.
- Then apply the vehicles handbrake and engage first or reverse gear.
- Loosen the wheel bolts. Please Note a suitable torque wrench should be used.
- Do not use hammer action air tools on the coded bolts - use only manual tools.



To protect against wheel theft, one of the five bolts securing each wheel is key coded, and requires a corresponding coded socket wrench supplied with the car. Rotate the coded socket until fully engaged with the bolt head and take care to maintain the extension tool perpendicular to the wheel face before applying release torque.

Both the standard extension and coded socket tools are stowed in the rear luggage compartment within the vehicle tool kit, and should remain with the car at all times to ensure that servicing may be performed.

The key code included in the tool kit should be recorded and kept safely with the vehicle documents, in case a replacement socket tool needs to be ordered.

- Position a suitable jack at one of the four relevant jacking points (Shown as A or B) on page 113 'lifting the Elise/Exige'.
- Adhere to any instructions, safety information or warnings provided with the jack.
- Extend the jack and raise the vehicle off of the ground.
- Remove the bolts and remove the wheel.

⚠WARNING

Using a lifting jack can be dangerous. If the car falls off the jack, you or others could be seriously injured or killed. NEVER get under a car when it is supported only by a jack.

Use only those lifting points identified. Jacking on any part of the body, or with a jack improperly positioned, may dam age the chassis or body structure and/or jeopardise safety.

Wheel Fitment

After positioning the wheel, pre-tighten the bolts using the standard extension and coded wheel bolt adaptor.

Following manufacturers' instructions, release the jack and lower the vehicle to the ground.

Fully tighten the bolts to a torque of 105 Nm (77.5 lbf.ft).

Wheel Alignment and Tyre Balance

Scheduled wheel alignment and balancing are not required, but general wear and tear caused by potholes, kerb strikes etc, can result in suspension geometry misalignment outside of the service tolerance.

If unusual tyre wear, pulling of the car to one side or the other, or shaking of the steering wheel is noticed, the wheel alignment and/or balance may need attention from your dealer or tyre depot.

Wheel Replacement

Any wheel that is bent, cracked, corroded or otherwise damaged should be renewed. If the wheel bolts come loose after having been correctly fitted, the wheel and bolts should be replaced. If the wheel leaks air, have it replaced.

See your Lotus dealer if any of these conditions arise, and ensure that only Lotus approved wheels and wheel bolts are used.

⚠WARNING

Using incorrect, or non-approved replace ment wheels or wheel bolts could be dangerous. It could affect the braking and handling of your car, or cause tyre deflation, and result in a crash in which you or others could be killed or seriously injured. Always use Lotus approved wheels and wheel bolts, tightened to 105 Nm (77 lbf.ft).

⚠WARNING

Putting a used wheel on your car is dangerous. It may have been subjected to a heavy impact and suffered structural damage which cannot be seen, and lead to breakage causing a crash in which you and others could be killed or seriously injured.

Dirt or corrosion on a wheel or hub mounting flange, or oil or grease on the wheel bolts or hub threads, or using incorrect wheel bolts, or the wrong tightening torque could all cause the bolts to come loose and the wheel to come off, resulting in a crash in which you and others could be seriously injured or killed.

On cars used on a race track or in a competitive manner, special vigilance is required due to the severity of operating conditions. Careful inspection of all wheels must be carried out before and after each session. Note: Lotus does not endorse such use of the Elise/Exige S - refer to the Warranty Booklet section 2 'Intended Purpose'.

Battery

⚠WARNING

POISON/DANGER - CAUSES SEVERE BURNS - KEEP OUT OF REACH OF CHILDREN - RISK OF SHORT CIRCUIT AND FIRE.

Batteries contain sulphuric acid - avoid contact with skin, eyes, mouth or clothing. If in contact with skin or eyes; flush with copious amounts of water, remove contaminated clothing and seek immediate medical attention.

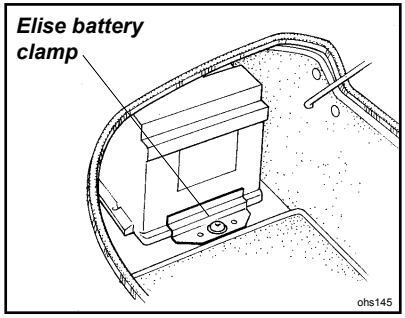
If ingested; seek immediate medical attention. Do not induce vomiting or give fluids to drink.

Batteries produce explosive gases. Keep sparks, flames and cigarettes away. Ventilate when charging or using in enclosed space. Always shield eyes when working near batteries.

Observe all warning notes on the battery.

Disconnect the battery during all work on the electrical system.

Do not lay tools or other metal objects on the battery as they could cause a short circuit across the battery terminals.

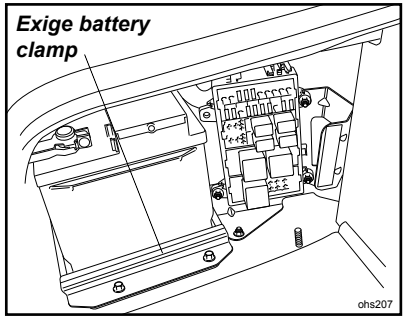


Battery Access

The battery is located at the left hand of the rear luggage compartment. Inspection or topping up of the electrolyte is not required, but at intervals specified in the Maintenance Schedule, the battery terminals should be checked for security and condition, and protected with petroleum jelly.

Elise: Unclip the battery cover from the floor and ease the cover from around the left hand rear corner of the battery.

Exige: Remove the left hand compartment trim panel by pulling it away from the luggage compartment releasing it from its velcro fixings.



Disconnecting the Battery

⚠WARNING

Failure to follow the correct battery disconnection procedure detailed below could result in serious burns.

- Ensure that all electrical loads (e.g. lights) are switched off.
- If the car is fitted with security coded audio equipment, check that the code is available for entering after battery reconnection.
- Wait for at least **30 MINUTES** after switching off the ignition to allow the engine management system to adjust the setting of some components ready for re-starting.
  Note: Automatic models will default to P - Park if the battery is disconnected or becomes discharged.

- Ensure the alarm is disarmed. If the battery is disconnected when armed, the alarm will be triggered.
- Disconnect the negative (earth; black; '**-**') battery cable first, and re-connect last.

⚠WARNING

If the battery positive terminal is inadvertently earthed (e.g. when using a spanner) whilst the negative terminal is still connected, the resultant short circuit, with heavy sparking and current flow, could cause serious burns and/or a fire.

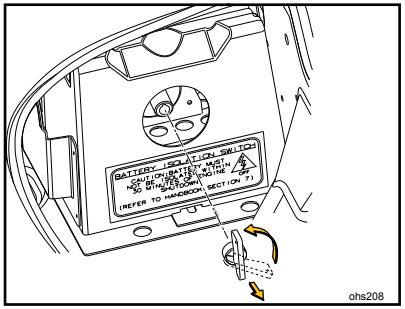
Battery Removal

Disconnect the battery terminals, see 'Disconnecting the Battery' and pull off the breather pipe (if applicable). Release the screw(s) securing the clamp bracket at the base of the battery, and manoeuvre the battery out of the luggage compartment.

⚠WARNING

When lifting the battery out of, or into the car, be aware of the considerable weight and take all appropriate precautions to safeguard personal health. Injury can result from improper lifting technique.

Keep the battery upright, and protect from sharp knocks and shocks. The plastic case is easily damaged by careless handling.



Battery Isolator Switch (if fitted)

If the lightweight 27 amp/hr Motorsport battery is fitted, the discharge period is significantly reduced to as little as 2 days.

This period can be extended to approximately 2 weeks by using the battery isolator switch (if fitted), isolating all electrical circuits from the battery,

Designed for use specifically with the Lotus lightweight battery, this switch allows the battery to be disconnected from all of the vehicles electrical systems, eliminating the normal quiescent drains placed on the battery from the vehicles alarm and engine management systems etc.

Isolating Battery

Before isolating, ensure that the alarm is disarmed in order to prevent its being triggered. Then wait for at least **30 MINUTES** after switching off the ignition to allow the ECU and associated sensors to shut down in the correct sequence.

- Ensure all electrical items have been turned off and the key is removed from the ignition switch.
- Using the release lever open the engine cover/boot lid.
- **Do not** lock the vehicle using the buttons on the key fob (if central door locking is fitted), lock manually using the key or you will be **unable** to gain access to vehicle to open the boot once the battery has been isolated.
- **Do not** arm the alarm system.
- Turn the isolator switch lever 90° anticlockwise, (lever located at the end of the switch inset in the aperture of the battery cover).
- The lever will detach itself from the switch and the battery is now isolated from the vehicles electrical systems

Reconnecting the Battery
(if isolator switch fitted)

- Insert the switch lever into the battery cover aperture, guiding the lever onto the isolator switch itself.
- Turn the switch 90° clockwise, the lever should now be horizontal facing towards the engine bulkhead and is now locked into position.

Reconnecting the Battery
(if standard battery fitted)

⚠WARNING

Failure to follow the correct battery re-connection procedure could result in serious burns.

Refit the battery, with the terminals outboard, by reversing the removal procedure. Remember to push on the breather pipe (if applicable), and note the polarity symbols marked on the battery case before reconnecting the battery cables as detailed below.

i. Check again that all electrical loads are switched off.
ii. Connect the positive battery cable ('+', red) first, followed by the negative ('-' black) earth cable.
iii. Refit the battery cover.
iv. If necessary, enter the security code into audio equipment.
v. After reconnection, a slight change in the engine performance characteristics may be noted for a period whilst the computer controlled engine management system 're-learns' some of its settings.

Battery Charging
Under conditions of normal daily use, it should not be necessary to use an external battery charger.

In a low usage conditions, however, it is important to maintain the charge state of the battery using a trickle charger, or an automatic battery management conditioner such as that available through Lotus Dealers.

Note: A battery conditioner will maintain a fully charged battery, but cannot recharge if the battery becomes discharged.

Starting difficulties may be encountered after an unattended period of 3 weeks. A battery conditioner is able to continuously monitor battery charge state and switch on and off automatically in order to maintain the battery in a fully charged condition without danger of damage through overcharging.

If the battery becomes discharged to the extent that the car cannot be started, the recommended course of action is to fit a substitute battery whilst the original battery is trickle charged. If, in an emergency, the car has to be 'jump' started, the subsequent conditions of car

use may not allow for sufficient alternator charging of the battery to achieve a fully charged state. The battery should be trickle charged by external means until 12.8 volts is recorded, this process may take 24 hours or longer.

Putting the battery into service at a lower state of charge will reduce the time period for which the car can be parked without subsequent starting concerns.

A battery left in a fully discharged state for a prolonged period, may not be recoverable to its original condition.

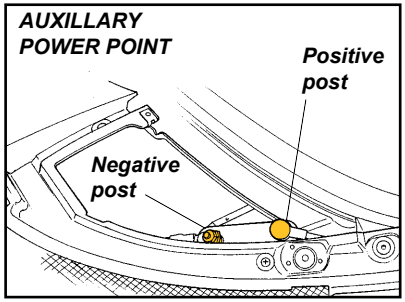
A discharged battery is also vulnerable to freezing of the electrolyte, which could result in a damaged casing.

⚠WARNING

Hydrogen gases generated by the battery could cause an explosion, resulting in severe personal injuries. Charge the battery in a well ventilated area.

Never charge a frozen battery. It may explode because of gas trapped in the ice. Allow a frozen battery to thaw out first.

If you get electrolyte, which is an acid, in your eyes or on your skin, immediately rinse with cold water for several minutes and call a doctor.



'Jump' Starting

Auxiliary Power Posts

Access to the battery in the rear luggage compartment is available only after opening the engine cover lid/tailgate via the release handle on the cabin rear bulkhead.

If the car is centrally locked, and then the vehicle battery becomes discharged power must be restored before the doors may be opened and the battery accessed.

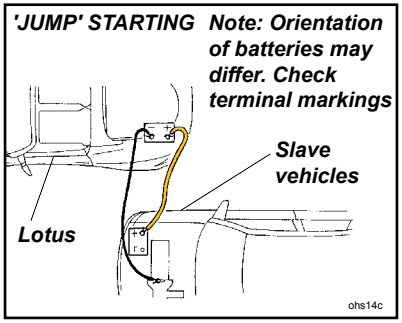
To facilitate the connection of an auxiliary power supply, a pair of secondary battery posts are provided at the left hand front of the car, beneath the front body access cover (see pages 67 - 68).

If the battery becomes discharged to the extent that the engine cannot be started, the recommended action is to remove the battery for bench charging, and/or fit a substitute battery until this process is complete.

If this option is unavailable, the car may, in an emergency, be 'jump' started from a second vehicle with 12V negative earth electrics, but be aware that such a process can cause damage to vulnerable electronic controllers, which would not be covered by the New Vehicle Warranty.

⚠WARNING

It is most important that the correct procedure is followed in order to reduce the risk of damage to either car's electrical system, and most importantly, to minimise the danger of a spark induced battery explosion. Check that the slave car also has a 12V NEGATIVE EARTH electrical system.



'Jump' Starting Procedure

i. With the engine of the slave car running at a fast idle, use one jumper cable (red) to connect the positive (**+**) terminal of one battery to the positive terminal of the other battery.

ii. Take care to avoid inadvertently earthing the free end of this cable to the metal body or chassis of either car.

iii. Connect one end of the other jumper cable (black) to the negative (**-**) terminal of the discharged battery.

iv. A spark will occur when the other end of this cable (the final connection) is connected to an earth on the slave car. This connection should therefore be made to an earthing point well away from the battery, and from any fuel vapour area or moving parts. An engine hanger bracket is often ideal.

v. Start the disabled vehicle in the usual way, and run at a fast idle.

vi. A spark will occur at the first disconnection of a jumper cable, so it is essential that the first disconnection is made from the slave car earth. Both batteries (especially the discharged one) will be 'gassing' heavily at this time, and **if the first disconnection is made at a battery terminal, there is a danger that the hydrogen gas may be ignited by the spark with a resultant explosion.**

vii. Have the cause of the flat battery investigated and rectified, and trickle charge the battery as detailed above.

⚠WARNING

Both the final connection and the first disconnection should be made away from the battery to reduce the risk of explosion.

Causing an electrical short circuit could result in serious personal injury and/or vehicle damage.

Use only jumper cables of adequate cross-section, fitted with completely insulated alligator clamps. The cables must be long enough to allow that neither cars nor cables touch each other.

⚠WARNING

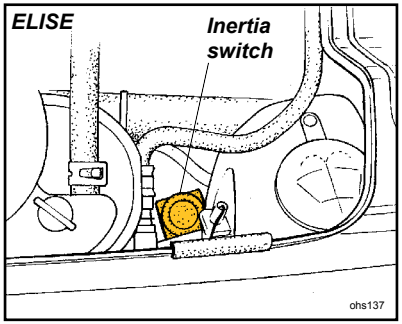
Follow all warnings and instructions of the jumper cable manufacturer.

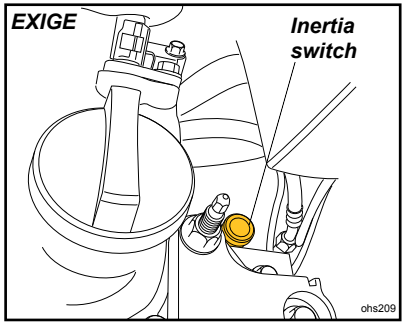
When connecting the jumper cables, keep them away from moving engine parts.

The two cars must not contact each other, or current could flow as soon as the positive terminals are connected.

When the first clamp on each cable is connected, the other clamp on that cable must be held carefully to make sure it does not come into contact with either another cable clamp or either car.

Ensure that tools or metal watches or jewellery do not contact the battery terminals or electrically live components.





Inertia Switch

The safety inertia switch is designed to operate on impact, typified by vehicle collision, to switch off the fuel pump, and thus minimise any fire hazard. The central door locking will also be triggered to unlock the doors.

Elise: The inertia switch is mounted at the left hand bottom of the engine bay, on the inboard face of the rear subframe, and is accessible from between the coolant header tank and windscreen washer reservoir.

Exige: The inertia switch is mounted at the right hand of the engine bay on the rear subframe in front of the engine and inboard of the rear body panel. Although accessible it is not highly visible so it may be necessary to use a torch to locate it.

The switch is reset by pressing the rubber diaphragm button on the top of the unit.

Electrical Accessories

Owners should note that the only approved extras and modifications are those which are specified by Lotus and carried out by Lotus or by an authorised dealer.

Lotus will accept no liability whatsoever for defects which arise from extras or modifications which are not approved by Lotus.

Main Fusebox - Elise

⚠WARNING

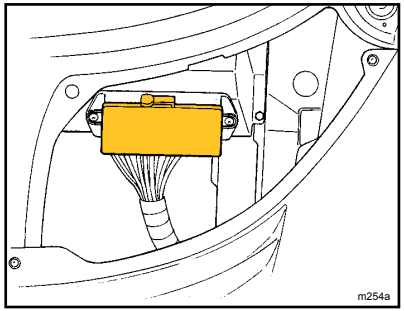
Replacing a fuse with one of a higher rating may cause a fire. If a fuse of the correct rating is not available, use one of a lower rating as a temporary measure.

NOTICE: Replacing a fuse with one of a higher rating may cause extensive damage to the vehicle's electrical systems.

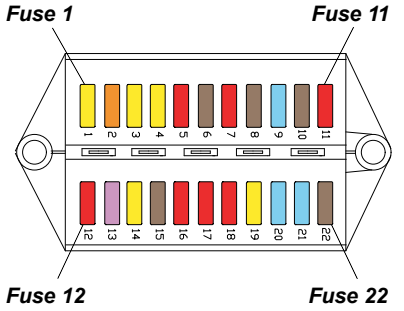
The main fusebox is located on the passenger side of the front services compartment.

The fuse box contains 22 'ATO' type fuses which are numbered and coloured according to their amperage rating, and may be pulled out from their slots using the fuse extractor tool provided on the fusebox lid.

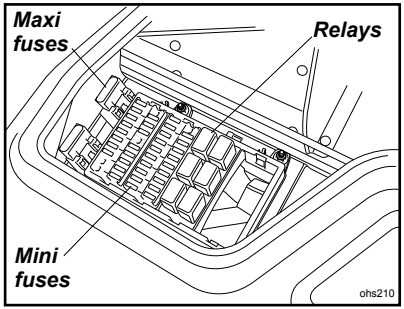
For access, remove the front body access panel, (see page 67) and unclip the fusebox lid.



As viewed from the front



Slot	*Rate*	*Circuit*
1	20A	Auxiliary power socket
2	5A	Reverse lamps & parking sensors
3	20A	Driver's window
4	20A	Passenger's window
5	10A	Stop lamps
6	7.5A	Turn indicators
7	10A	Ignition services
8	7.5A	Battery services
9	15A	Hazard lamps
10	7.5A	Horn
11	10A	Alarm pwr.,interior lamp
12	10A	ABS
13	3A	ECU ignition
14	20A	Rad. fans; 1&2 slow/1 fast
15	7.5A	Radio, switch pack module
16	10A	Sidelamps; rear fog
17	10A	Dip beam LH
18	10A	Dip beam RH
19	20A	A.C. compressor relay rad fan 2 fast
20	15A	Main beam LH
21	15A	Main beam RH
22	7.5A	CDL



Main Fusebox - Exige

Refer to page 130 for automatic vehicles.

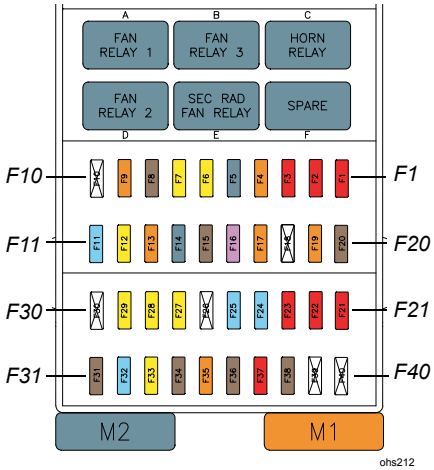
⚠WARNING

Replacing a fuse with one of a higher rating may cause a fire. If a fuse of the correct rating is not available, use one of a lower rating as a temporary measure.

NOTICE: Replacing a fuse with one of a higher rating may cause extensive damage to the vehicle's electrical systems.

The main fusebox is located in the front services compartment on the passenger side. For access, remove the front body access panel, (see page 66) and unclip the fusebox lid.

The fuse box contains 40 'mini' and 2 'maxi' type fuses which are numbered and coloured according to their amperage rating, and may be pulled out from their slots using the fuse extractor tool provided on the fusebox lid.



Relays for specific vehicle electrical services are also contained within the fuse box

Slot	*Rate*	*Circuit*
1	10A	Ignition services
2	10A	ABS
3	10A	Stop lamps
4		Spare
5	2A	Parking sensor buzzer
6	20A	Driver's window motor
7	20A	Passenger's window motor
8	7.5A	Direction indicators
9	5A	Day time running lamps
10		Spare
11	15A	Wiper motor
12	20A	Interior fans
13		Spare
14	2A	USB charge connector
15	7.5A	Radio/Instrument panel key in
16	3A	ECU/start, fuel pump & HRS relays
17	5A	Reverse lamp/parking sensors.
18		Spare
19	5A	Alternator ignition
20	7.5A	Air Conditioning clutch
21	10A	Side lamp/rear fog lamp
22	10A	LH dip beam
23	10A	RH dip beam
24	15A	LH main beam
25	15A	RH main beam
26		Spare
27	20A	Radiator fan 2 fast
28	20A	Radiator fans 1&2 slow/fan1 fast
29	20A	Secondary radiator fan
30		Spare
31	7.5A	Horn
32	15A	Hazards
33	20A	Aux power socket
34	7.5A	Central Door Looking
35	5A	On Board Diagnostic
36	7.5A	Radio / switch pack module
37	10A	Alarm & interior lamp
38	7.5A	Instrument panel. headlamp flash
39		Spare
40		Spare
M1	40A	ABS main power 1
M2	25A	ABS main power 2

Engine Bay Fuses - Elise

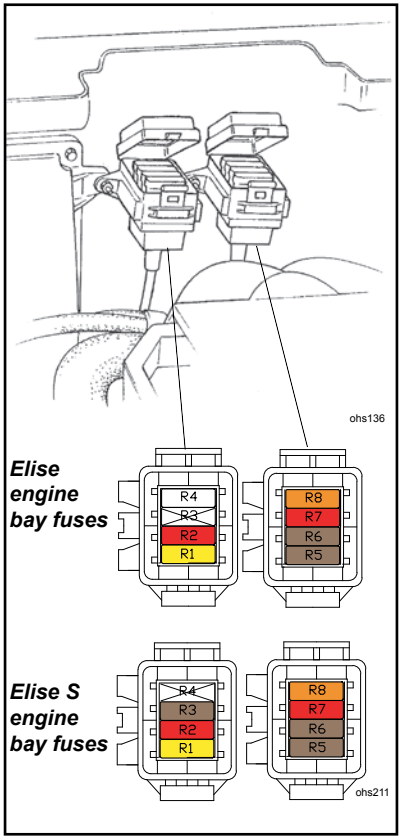
⚠WARNING

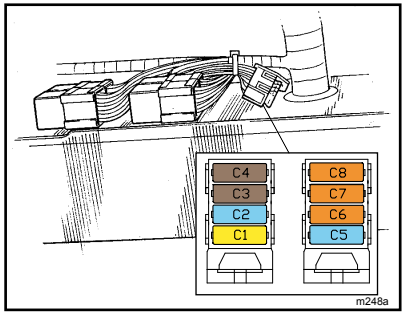
Replacing a fuse with one of a higher rating may cause a fire. If a fuse of the correct rating is not available, use one of a lower rating as a temporary measure.

NOTICE: Replacing a fuse with one of a higher rating may cause extensive damage to the vehicle's electrical systems.

Fuses associated with the engine management system are contained in two fuse holders located at the front of the engine bay on the cabin bulkhead, adjacent to the engine ECM. To access the fuses, unclip rear edge of the cover.

Slot	*Rate*	*Circuit*
R1	20A	Fuel pump
R2	10A	Coils
R3	7.5A	(Elise S) - Charge cooler pump (Elise) - not available
R4	25A	(Elise S) - not available (Elise) - Valve lift motor
R5	7.5A	O2 heaters
R6	7.5A	VSVs, VVT, purge
R7	10A	Injectors / ECU main power / AC module
R8	5A	Re-circulation pump

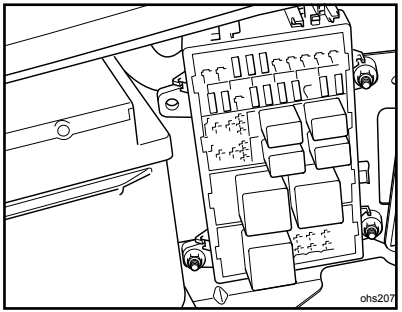




Footwell Sited Fuses - Elise Only

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

Slot	*Rate*	*Circuit*
C1	20A	Interior fan
C2	15A	Wiper motor
C3	7.5A	Audio key-in / USB charger connector
C4	7.5A	Air Conditiong compressor / GCC unit
C5	15A	Auxiliary driving lamps
C6	5A	Alternator ignitiom / Tyre Presssure Monitoring System
C7	5A	Alternator sense
C8	5A	Daytime running lamps



Rear Luggage Compartment Fuses (Exige Only)

Refer to page 131 for automatic vehicles

⚠WARNING

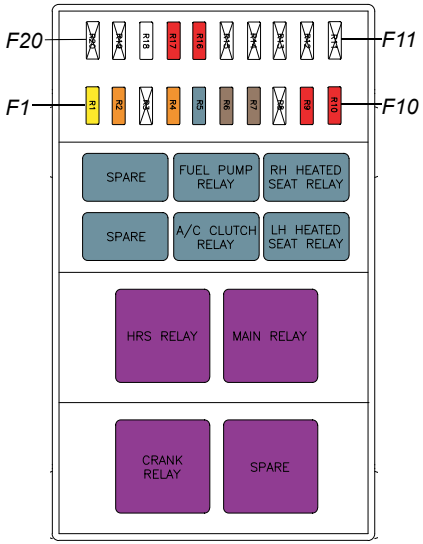
Replacing a fuse with one of a higher rating may cause a fire. If a fuse of the correct rating is not available, use one of a lower rating as a temporary measure.

NOTICE: Replacing a fuse with one of a higher rating may cause extensive damage to the vehicle's electrical systems.

Additional fuses are located at the left hand of the rear luggage compartment.

Fusebox Location

To gain access, remove the left hand storage compartment trim panel by pulling it away from the luggage compartment releasing it from its velcro fixings.



The fuse box contains 'mini' type fuses as well as relays for specific vehicle electrical services. The fuses may be pulled out from their slots using the fuse extractor tool provided on the fusebox lid.

Slot	*Rate*	*Circuit*
1	20A	Fuel pump
2	5A	Alternator sense
3		Spare
4	5A	HRS SW LED
5	2A	Hot soak pump
6	7.5A	02 heaters
7	7.5A	VIM, VVT, PURGE, ACIS, CVCV, A/C VALVE
8		Spare
9	10A	Coils
10	10A	INJ'S / ECU PWR Fan relays, HTD seat relays
11		Spare
12		Spare
13		Spare
14		Spare
15		Spare
16	10A	LH heated seat
17	10A	RH heated seat
18	20A	HRS
19		Spare
20		Spare

Headlamps
The headlamp assemblies feature Halogen main and dip beam lamps, Light Emitting Diodes (LEDs) amber string direction indicators, and LED white string daytime running/parking lamps.

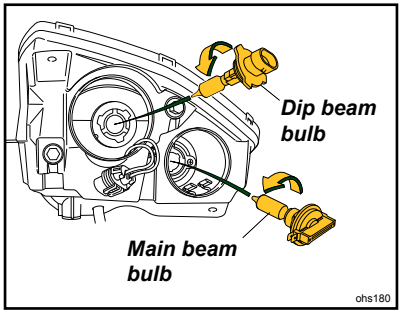
Certain atmospheric conditions may result in some condensation inside the lamp unit, but this should disperse with the lamps in operation and cause no concern.

Bulb Access
Turn the steering to full lock to gain access to the three screws retaining the access cover in the wheelarch liner.

⚠WARNING

To avoid burn injuries, allow bulbs to cool before attempting removal

NOTICE: Touching the glass of halogen bulb with bare fingers will leave a greasy deposit and is likely to lead to premature failure. If necessary, the glass should be cleaned using white spirit and a paper tissue.



Bulb Replacement

Dip beam bulb - 12V 60W bulb HB3A
Remove the protective boot from the back of the outboard lamp, twist the bulb holder anti-clockwise, and withdraw from the lamp.

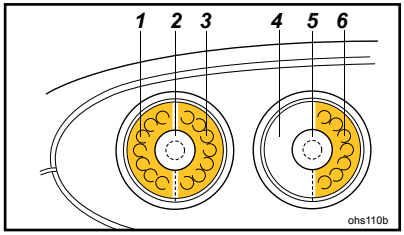
Prise open the retaining barbs to allow the harness plug to be disconnected. Replace the bulb, and reassemble in reverse order to disassembly.

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

Front Turn Indicator & Daytime Running/ Parking Lamps
The front turn indicator lamps and sidelamps are provided by light emitting diodes (LEDs) and are incorporated into the headlamp assemblies.

These lamps are designed for long life and are serviceable only by replacement of the complete headlamp a job which should be entrusted to your Lotus dealer.

Side Repeater Lamps
The side repeater lamps are mounted in the front clamshell behind each wheelarch, and use light emitting diodes LEDs. The lamps are serviceable only by complete replacement, and are secured by a self adhesive gasket.



Rear Lamp Cluster Bulbs
Each pair of rear lamps is configured as follows:

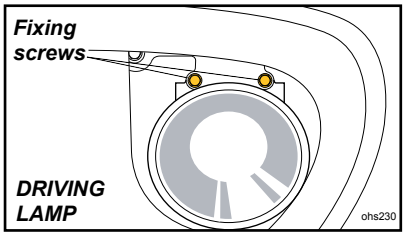
Outboard Lamp

Function	*Bulb type*
1 Tail and brake lamp	LED
2 Direction indicator	Capless, 12V 16W W16W
3 Tail and brake lamp	LED

Inboard Lamp

Function	*Bulb type*
4 Not used	N/A
5 Reverse lamp	Capless, 12V 16W W16W
6 Rear fog lamp	LED

The lamps using LED (light emitting diodes) are extremely durable and are serviced by lamp cluster replacement. Only the turn and reverse lamps have replaceable bulbs which are accessible from within the luggage compartment.

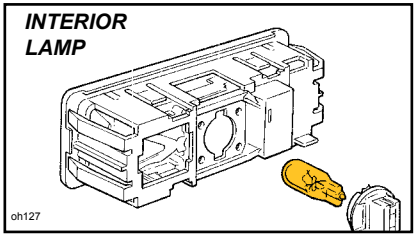


Driving Lamp Bulbs - 12V 55W bulb H3
For access to the driving lamps (if fitted), first remove the front air intake grille (Exige), or gently rotate the lamp downwards to expose the retaining bracket fixings (Elise), unscrew the fixings and withdraw the lamp.

Release the two screws retaining the lamp end cap, remove the cap and withdraw the bulb. Refit in reverse order

Adjust the beam alignment before refitting the grille.

NOTICE: Touching the glass of halogen bulb with bare fingers will leave a greasy deposit and is likely to lead to premature failure. If necessary, the glass should be cleaned using white spirit and a paper tissue.



Interior Lamp - 12V 5W bulb W5W
Mounted in the rear bulkhead trim panel. It must be carefully eased out to allow access to the capless bulb in its twist release holder.

Licence Plate Lamps - 12V 5W bulb W5W
Elise: Remove the two screws securing the lamp to the body, and withdraw sufficiently to allow access to the festoon bulb.

Exige S: Withdraw the lamp assembly away from the bumper by carefully prising the lamp bezel away releasing it from its integral securing clips. The bulb can then be removed from its electrical connections within the transparent lamp housing.

Centre High Mounted Stop Lamp (CHMSL)
The CHMSL is mounted to the underside of the rear window shroud (Elise) or the rear boot panel (Exige) and uses LEDs (Light Emitting Diodes). The lamp is a sealed unit with no serviceable parts and may be replaced completely.

Recovery Anchorage Point
A recovery anchorage mounting point is fitted behind the centre front radiator air intake grille.

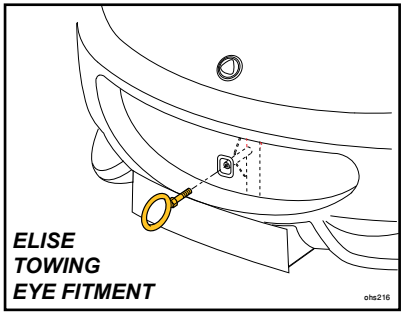
The mounting point is provided to aid vehicle recovery, such as winching onto a flatbed car transporter, but only when the car is able to roll freely.

Only in an emergency should the car be towed using this anchorage mounting, and then only for the shortest distance necessary, during which time the following precautions must be taken:

⚠WARNING

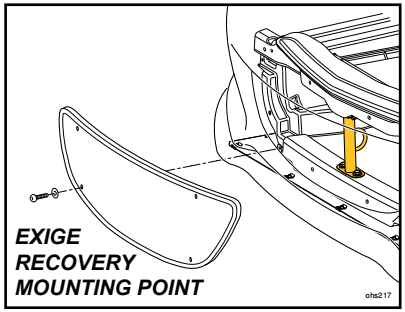
Use only towing equipment designed specifically for this purpose, or you could be killed or seriously injured.

Ensure that the key is used to unlock the steering column, and is then left in the lock. Never withdraw the key until the car is stationary. The steering column will lock when the key is withdrawn.



Recovery Eye – Elise Only
A recovery eye is provided with the vehicle tool kit, and stowed in the rear luggage compartment.

When required, fit the eye to its anchorage point having first removed the protective bung (if fitted), and screw fully into the tapped boss.



Towing Bar Mount – Exige Only
A recovery mounting point is fitted behind the centre front intake grille.

When required, remove the grille by unscrewing its 4 fixing screws using the T25 Torx 'T' bar wrench supplied with the vehicle tool kit, which is stored in the rear luggage compartment.

Once removed, fasten suitable towing equipment around the mounting point ensuring that it also passes through semi-circular mounting eye.

This will limit the movement of the towing equipment and prevent accidental damage to the bodywork whilst manoeuvring the vehicle.

The mounting point is provided to aid vehicle recovery, such as winching onto a flatbed car transporter, but only when the car is able to roll freely.

Only in an emergency should the car be towed using this anchorage mounting, and then only for the shortest distance necessary, during which time the following precautions must be taken:

Preparation for winching – automatic models

- Ensure that the vehicle's battery is connected and has sufficient charge.
- Turn the ignition key to position II so that the PRND selector buttons can be activated.
- Release the parking brake and ensure that the transmission is in N - Neutral.
- If Neutral cannot be selected then towing dollies must be placed under the rear wheels before winching the vehicle.

Before Being Towed

Comply with all local legislation applicable to cars being towed.

NOTICE: Before being towed release the parking brake and ensure that the transmission is in neutral.

NOTICE: Use only specifically designed towing equipment or damage to your car may be caused.

Vehicle Towing - Automatic Models

Never tow a vehicle with an automatic gearbox with the driving wheels rotating on the ground, as this may cause serious damage to the transmission.

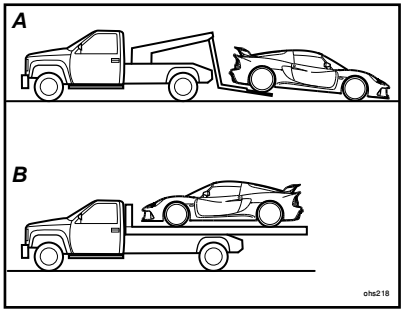
Car Tie-Down

When moving a car by transporter or trailer, the car should be secured only by chocking and strapping around the road wheels.

NOTICE: Attaching restraints around suspension linkages, recovery eye or chassis or body components may cause damage.

Towing a Trailer

The Elise and Exige S are not suitable for towing a trailer.



Vehicle Recovery

If recovery is necessary, we recommend it is carried out by your Lotus dealer or a professional vehicle recovery service.

The recommended method of recovery for any model is the use of a flat bed transporter as shown in illustration B.

Never use the recovery eye to tow the vehicle.

To prevent causing serious damage to the transmission; always tow the vehicle with the free wheels (non driving wheels) rotating on the ground, see illustration A.

Lifting Point Locations

A. Identified by a blue sticker. Located beneath the right or left hand side of the crossmember ahead of fuel tank bay. To be used one side at a time for wheel changing using a suitable trolley jack - lifts both wheels on one side. Due to the vehicles weight distribution, lifting point 'A' is **NOT** suitable for use with a garage 4-point lift.

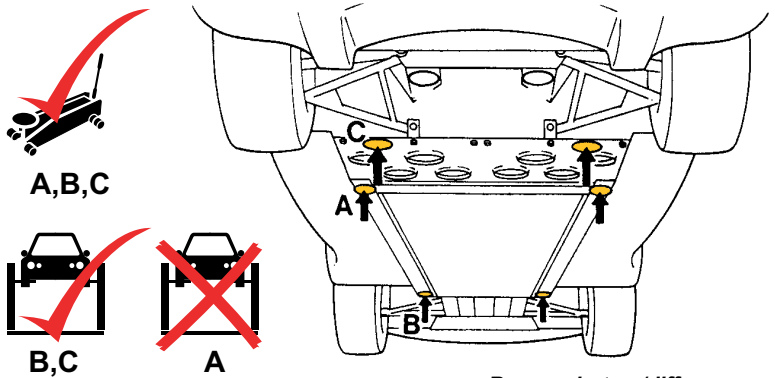
⚠WARNING

Lifting the vehicle from point 'A' using a 4-point lift will jeopardise safety

B. Identified by a blue sticker. Located beneath the front end of the right or left hand main chassis rail, behind the front wheelarch using a suitable trolley jack or garage use with 4-point lift.

C. For garage use with a 4-point lift, located behind the rear undertray panel, positioned beneath the outboard ends of the chassis crossmember ahead of the rear wheelarches. Do not use with the rear undertray panel fitted. The undertray panel **MUST** be removed to access these points. Once removed take care to position the lifting pads between the fixing screws for the fuel tank bay perforated undershield. Avoid the fuel tank brackets.

LIFTING POINTS



Rear undertray/diffuser panel removed for clarity

ohs49

⚠WARNING

Lifting the vehicle from point 'C' with the undertray still in place may jeopardise safety.

NOTICE: Lifting the vehicle from point C with the undertray still in place will damage the undertray, chassis and body structure.

Please refer to rear undertray/diffuser panel section before attempting to use 'C' lifting points.

Rear Undertray/Diffuser Panel

The rear undertray assembly not only provides under vehicle protection from the elements, but also contributes to the vehicle's overall aerodynamics and the structural stiffness of the chassis frame. Therefore the vehicle should not be driven with this panel removed.

The undertray and diffuser assembly panel are fixed to the vehicle using M5 and M8 sized fixing screws, which are bolted directly into the vehicle's chassis and sub-

frame or retained by the use of single use speed fixings also referred to as 'spire nuts'. Please refer to rear undertray/diffuser panel section before attempting to use 'C' jacking points.

Note: To ensure its security, any speed fixings used to retain the undertray screws must be renewed before refitting the undertray/diffuser assembly onto the vehicle.

All M5 screws tightened to a torque of 5 Nm and all M8 screws tightened to 20 Nm.

Note; Replacement speed fixings are available to order from your Lotus dealer.

Note: It is highly recommended that undertray removal is only carried out by your Lotus dealer.

It should not be necessary to remove the rear undertray from the vehicle to perform any of the normal routine owner performed maintenance checks as shown in pages 85 to 90.

Fuel Tank Chassis Panel

NOTICE: The screw fixed chassis panel enclosing the underside of the fuel tank bay, contributes to the structural integrity of the chassis frame. Do not use the car with this panel removed.

⚠WARNING

Improper accessories or modifications could affect your car's handling, stability and performance, and cause a crash in which you or others could be seriously injured or killed. Follow all instructions in this owner's manual regarding accessories and modifications.

Modifications

Vehicle modifications or the installation of some types of non-Lotus accessory could make the car unsafe.

Before undertaking any modifications or fitting any accessories, be sure to read the following information and discuss with your dealer:

Accessories

Lotus dealers can supply genuine Lotus approved accessories that offer vehicle personalisation. These accessories have been designed and approved for the Lotus Elise/Exige, and are supported by Lotus warranty.

Non-Lotus accessories may be designed for universal application, and although they may fit the Elise/Exige, they may not meet Lotus specifications, and could adversely affect the car's safety or handling and stability.

⚠WARNING

If any electronic accessories are improperly installed, or exceed the capacity of the car's electrical system, they could interfere with the operation of other electronic systems and cause the airbags to deploy, or cause other damage.

When properly installed, additionally fitted electronic accessories should not interfere with the car's computer-controlled systems, such as the airbag and anti-lock brake system. Before installing any accessory:

- Ensure the accessory does not obscure any lights, or interfere with proper vehicle operation or performance.
- Ensure electronic accessories do not overload electrical circuits.
- Have the installer contact a Lotus dealer for assistance before installing any electronic accessory.
- If possible, have your Lotus dealer inspect the final installation.

⚠WARNING

Do not remove any original equipment or modify your car in any way that would alter its design or operation. This could make your car unsafe or illegal to drive.

For example, do not install wheels and tyres with a different overall diameter. Such modifications can adversely affect handling, and interfere with the operation of the car's anti-lock brakes and other systems.

In addition, any modifications that decrease ground clearance outside of Lotus approval, increase the chance of undercarriage parts striking a kerb, speed bump, or other raised object, which could cause your airbags to deploy as well as damaging the chassis and body underside.

Do not modify the steering wheel or any other part of the airbag system. Modifications could make the system ineffective.

Do not attach or place objects on the airbag covers. Any object attached to or placed on the covers marked 'AIRBAG', in the centre of the steering wheel and on the fascia ahead of the passenger, could interfere with the proper operation of the airbags. If the airbags inflate, the objects could be propelled inside the car and cause injury.

Storing Your Vehicle

If you intend to store the car for a prolonged period, consult your Lotus dealer who will be pleased to advise you.

We recommend that the car is stored inside a secure garage. The following guidelines are provided for your information:

- Ensure the engine oil and filter, coolant and brake fluid have all recently been renewed. The a.c. (air conditioning) system should be in good working order and fully charged.
- Thoroughly clean the inside and outside of the car, including the engine compartment. If necessary, use a 'jet' washer to remove dirt and salt deposits from the underside, but do not use around bearings, hydraulic components or painted surfaces. Allow to dry completely.
- Chock the road wheels, leave off the parking brake, and engage first gear.
- Increase the tyre pressures to 4 bar (60 psi), and stick a reminder note on the windscreen. If possible, move the car slightly every month to help avoid flat spots on the tyres.
- Either leave the battery in the car and connect a battery management (conditioner) type of charger, or remove the battery and trickle charge every two months. Note that with the battery disconnected or removed, the alarm system is de-activated.
- Unless the garage is equipped with a de-humidifier, the use of drying agents (Silica-Gel) is recommended in cars with leather upholstery and in conditions of high humidity.
- The use of unapproved car covers may have a detrimental effect on the car's paint finish and such damage will not be covered by the New Vehicle Warranty.
- In general, the Elise/Exige will be kept in best operating condition by regular use and routine maintenance.

Engine

Strict adherence to the use of specified lubricants is vital. It is a false economy to use cheaper, lower quality oils, which may degenerate to a level providing inadequate protection before the next scheduled service. High oil consumption may also result.

Throughout the life of the vehicle (including topping up during the running-in period if required) a fully synthetic 5W/30 or 5W/40 oil should be used.

A top quality fully synthetic 5W/40, such as 'PETRONAS Syntium Racer X1' is suitable for all climatic conditions likely to be encountered.

See page 118 'Recommended Lubricants' section for further details.

If the vehicle is to be driven hard in very high ambient temperatures, or used on a race track, the recommended fully synthetic engine oil is PETRONAS Syntium 7000 0W/40.

NOTICE: Lotus recommends against the use of any oil additives, the use of which may invalidate the terms of the New Vehicle Warranty.

'Severe Service' Conditions

Certain operating conditions can cause rapid degradation of the engine and transmission oil quality, either by the accumulation of dirt particles, or by the absorption of water from condensation.

If any of the 'severe service' conditions described below apply, it is recommended that the oil and filter be changed twice as frequently as is listed in the Maintenance Schedule.

- Driving in dusty areas (e.g. on non-tarmacked roads); Change the oil and filter as soon as possible after driving in a dust storm.
- Stop/start driving with frequent short trips where the engine rarely warms up thoroughly (especially in cold weather/climates); and/or frequent or prolonged idling.
- Track use, with repeated high rpm, wide throttle openings and high oil temperatures. For appropriate maintenance, discuss with your Lotus dealer.

Note: The use of the car off road or in a competitive manner, including timed runs or laps, will invalidate warranty and require appropriate levels of expert car preparation and servicing.

Refer also to the Warranty Booklet section 2 'Intended Purpose'.

Lotus recommends PETRONAS Products.

Please be aware that the use of products with specifications other than those shown on the next page could cause damage to the engine and transmission that would not be covered under the terms of the Lotus vehicle warranty.

For fluid quantities please refer to the capacities information in the Technical Data section.

For change intervals please refer to the Maintenance Schedule contained within the separate Maintenance Record booklet.

The approved lubricants have been developed and tested in order to guarantee your car's reliability and optimal performance through time, respecting the required scheduled maintenance as foreseen by Lotus.

The Lotus Reference products are the original products utilised in the production of the vehicle and are identified by the Lotus Reference number.

RECOMMENDED LUBRICANTS

Engine

Road use approved product:	PETRONAS Syntium Racer X1 5W/40
Lotus approval reference:	PE-00137
Viscosity: ambient above -20°C	SAE 5W/40
Quality Standard:	API SM; ACEA A3/B4
Track use approved product:	PETRONAS Syntium 7000
Viscosity: ambient above 0°C	SAE 0W/40
Quality Standard:	API SN; ACEA A3/B4

Manual Transmission

Approved product - Elise:	PETRONAS Tutela transmission Geartech 75W/85
Lotus approval reference:	PE-00138
Approved product - Exige:	Havoline Multigear MTF HD 75W/80
Quality Standard:	API-GL4

Automatic Transmission

Approved product:	Toyota Genuine ATF WS Transmission oil
Approved product:	Exxon Mobil JWS 3324 Transmission oil

Brake & Clutch System

Approved product:	PETRONAS Tutela Top 4 Brake fluid
Lotus approval reference:	PE-00139
Fluid type & specification:	Non-mineral hydraulic fluid -DOT 4

Engine Coolant Additive

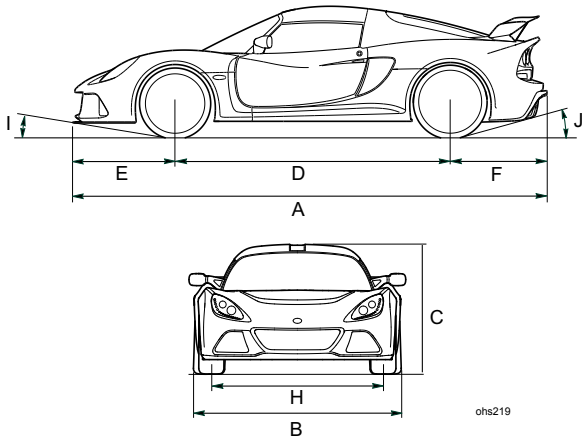
Approved product:	PETRONAS Paraflu Up
Lotus approval reference:	PE-00140
Type/Colour:	Ethylene glycol antifreeze with OAT corrosion inhibitors/Red

Charge Cooler Coolant Additive

(Elise S Only) Approved product:	PETRONAS Paraflu Up
Type/Colour:	Ethylene glycol antifreeze with OAT corrosion inhibitors/Red

Windscreen Washer Bottle

Approved product:	PETRONAS Tutela SC35 windscreen washer fluid
Lotus approval reference:	PE-00141



Dimensions (In millimetres)	**Model** Elise	**Model** Elise S	**Model** Exige S Coupe	**Model** Exige S Roadster
A. Overall Length	3824 mm	3824 mm	4084 mm	4067 mm
B. Overall width				
- excl. mirrors	1719 mm	1719 mm	1802 mm	1802 mm
- incl. mirrors	1850 mm	1850 mm	1933 mm	1933 mm
C. Overall height (mid laden weight)	1117 mm	1117 mm	1129 mm	1129 mm
D. Wheelbase	2300 mm	2300 mm	2370 mm	2370 mm
E. Front overhang	805 mm	805 mm	880 mm	863 mm
F. Rear overhang	719 mm	719 mm	834 mm	834 mm
G. Ground clearance (mid laden weight)	F/R 130 mm	F/R 130 mm	F/R 130/136 mm	F/R 130/136 mm
H. Track front	1457 mm	1457 mm	1499 mm	1499 mm
H. Track rear	1506 mm	1506 mm	1548 mm	1548 mm
I. Approach angle front	12.5°	12.5°	7.6°	9.2°
J. Approach angle rear	23.0°	23.0°	15.0°	15.0°
K. Turning circle	10.7m	10.7m	10.6m	10.6m

Weights

			Coupe		Roadster		
	Elise	Elise S	Exige S Manual	Exige S Automatic	Exige S Manual	Exige S Automatic	
Unladen weight							
Total	876 kg	924 kg	1176 kg	1182 kg	1166 kg	1172 kg	includes
Front	342 kg	353 kg	429 kg	415 kg	414 kg	411 kg	full
Rear	534 kg	561 kg	746 kg	767 kg	752 kg	761 kg	fuel tank
Maximum weight							
Total	1141 kg	1174 kg	1426 kg	1432 kg	1416 kg	1422 kg	includes
Front	429 kg	447 kg	515 kg	515 kg	512 kg	512 kg	occupants
Rear	712 kg	727 kg	911 kg	917 kg	904 kg	910 kg	& luggage

Capacities

Engine oil (refill inc. filter)

-Elise:	4.8 litre
-Elise S:	7.2 litre*
-Exige S:	10.1 litre†

**Engine oil capacity is 4.8 litres but the front mounted oil cooler and hoses contain an additional 2.4 litres of oil.*

†Engine oil capacity is 6.1 litres but the front mounted oil cooler and hoses contain an additional 4.0 litres of oil. Not all of this oil can be drained during a routine engine oil change.

High/low dipstick mark difference

-Elise:	1.0 litre
-Exige:	1.5 litre

Transmission oil

-Elise:	2.4 litre
-Elise S:	2.4 litre
-Exige S *Manual:*	2.5 litre
-Exige S *Automatic:*	6.5 litre‡

‡Figure shown also includes fluid contained within the transmission cooler circuit.

Brake & clutch system

-Elise:	2.0 litre
-Elise S:	2.0 litre
-Exige S:	2.0 litre

Engine cooling system

Total capacity

-Elise:	12.0 litre
-Elise S:	12.0 litre
-Exige S *Manual*:	14.0 litre
-Exige S *Automatic*:	12.9 litre

Water to antifreeze concentration: 50%

Charge cooler cooling system

(Elise S only)

Total capacity 4.0 litre

Water to antifreeze concentration: 50%

Air conditioning refrigerant

-Elise:	375g
-Elise S:	375g
-Exige S:	450g

Windscreen washer bottle

-Elise:	2 litre
-Elise S:	2 litre
-Exige S:	3.5 litre

Fuel tank

-Elise:	43.5 litre
-Elise S:	43.5 litre
-Exige S:	43.5 litre

Boot

-Elise:	112.0 litre
-Exige S:	98.0 litre

Engine data

Idle speed

-Elise:	800 ±200 rpm
-Elise S:	800 ±200 rpm
-Exige S:	750 ±200 rpm

Idle speeds may vary if air conditioning and/or Sport mode is activated.

Maximum continuous engine speed

-Elise:	6,800 rpm
-Elise S:	6,800 rpm
-Exige S:	6,600 rpm
- Sport mode	7,000 rpm*

**Exige S only*

Maximum transient engine speed

-Elise:	7,000 rpm
-Elise S:	7,100 rpm
-Exige S:	6,800 rpm
- Sport mode	7,200 rpm*

**Exige S only*

Fuel requirement

Minimum	Unleaded, 95 RON
Optimum	Unleaded, 98 RON

Power output

Elise:	100 kW (134 bhp) @ 6,800 rpm 160 Nm @ 4,400 rpm
Elise S:	161.8 kW (216 bhp) @ 6,800 rpm 250 Nm @ 4,600 rpm
Exige S:	257.5 kW (345 bhp) @ 7,000 rpm 400 Nm @ 4,500 rpm

Fuel consumption (mpg (l/100km))

EC/715/2007

Elise: - urban	34 (8.3)
- extra urban	56 (5.0)
- combined	45 (6.3)
CO_2 emissions (g/km)	149 (Combined)
Elise S: - urban	27 (10.3)
- extra urban	48 (5.9)
- combined	38 (7.5)
CO_2 emissions (g/km)	173 (Combined)
Elise S Cup: - urban	29 (9.9)
- extra urban	46 (6.1)
- combined	38 (7.5)
CO_2 emissions (g/km)	175 (Combined)

Exige S Manual:

- urban	19.5 (14.5)
- extra urban	37.2 (7.6)
- combined	28.0 (10.1)
CO_2 emissions (g/km)	235 (Combined)

Exige S Automatic:

- urban	20.7 (13.6)
- extra urban	39.2 (7.2)
- combined	29.4 (9.6)
CO_2 emissions (g/km)	222 (Combined)

Wheels - Elise

Road Wheels

Type	- std.	Cast alloy
	- opt.	Forged alloy
Size - front	- std.	5.5J x 16 (cast)
	- opt.	6.0J x 16 (forged + AD07)
	- opt.	6.5J x 16 (forged + A048)
- rear	- std. & opt.	7.5J x 17
	- opt.	8.0J x 17

Wheel bolt torque 105 Nm (77 lbf.ft)

TECHNICAL DATA

Tyres - Elise

Road Tyres

Type	- std.	Yokohama AD07
	- opt.	Yokohama A048
Size	- front - std.	175/55 R16 - 80W
	- opt.	195/50 R16 - 84W
	- rear	225/45 R17 - 91W (std.) 90W (opt.)

Pressure (cold)

- front	- std & opt.	1.8 bar (26 lb/in²)
- rear	- std & opt.	2.0 bar (29 lb/in²)

Economy Pressures (cold)*

2015MY onwards Elise S Cup only

- front	2.2 bar (32 lb/in²)
- rear	2.4 bar (35 lb/in²)

*NOTE: Inflating the tyres to the 'economy' tyre pressures of 2.2 bar (front) and 2.4 bar (rear) will adversely affect the handling characteristics and the drivers enjoyment of the car. We do not recommend these tyre pressures are used at speeds in excess of 80mph (128kph).

Winter Tyres

Type	- front	Pirelli 210 Snowsport
	- rear	Pirelli 240 Snowsport
Size	- front	195/50 R16 - 84H
	- rear	215/45 R17 - 91V

Pressure (cold)

- front	1.8 bar (26 lb/in²)
- rear	2.0 bar (29 lb/in²)

Tyres - Exige

Road Tyres

Type - std. Pirelli P Corsa
- opt. Pirelli P Zero Trofeo*

Size	- front	205/45 ZR17 - 88Y
	- rear	265/35 ZR18 - 97Y (std.) 93Y (opt.)

Standard Pressures (cold)

Manual & automatic vehicles

- front	- std & opt.	2.2 bar (32 lb/in²)
- rear	- std & opt.	2.6 bar (38 lb/in²)

Economy Pressures (cold)‡

Automatic vehicles only

- front	- std	2.6 bar (38.0 lb/in²)
- rear	- std	3.0 bar (43.5 lb/in²)

*Dealer fit only

‡NOTE: Inflating the tyres to the 'economy' tyre pressures of 2.6 bar (front) and 3.0 bar (rear) will adversely affect the handling characteristics and the drivers enjoyment of the car. We do not recommend these tyre pressures are used at speeds in excess of 80mph (128kph).

Road Wheels/Winter Tyres - Exige

Road Wheels

Type	- std.	Cast alloy
Size		
- front	- std. & opt.	7.5J x 17 (cast)
- rear	- std. & opt.	9.5J x 18

Winter Tyres

Type	- front	Pirelli 210 SottoZero Serie II
	- rear	Pirelli 240 SottoZero Serie II
Size	- front	205/45 R17 - 88V M+S
	- rear	235/40 R18 - 95V M+S

Pressure (cold)

- front	2.3 bar (33.5 lb/in²)
- rear	2.6 bar (36 lb/in²)

Winter Wheels

Type		Cast Alloy
Size	- front	7.5J x 17
	- rear	8.0J x 18

Wheel bolt torque 105 Nm (77 lbf.ft)

Transmission

Elise & Elise S

Type 6 speed manual type EC60.
Differential Open bevel gear.

Gear	Ratio	Final Drive	mph(km/h) /1000 rpm
First	3.54 : 1	4.29 : 1	4.75 (7.64)
Second	1.91 : 1	4.29 : 1	8.79 (14.1)
Third	1.31 : 1	4.29 : 1	12.8 (20.6)
Fourth	0.97 : 1	4.29 : 1	17.3 (27.9)
Fifth	0.82 : 1	4.29 : 1	20.6 (33.1)
Sixth	0.70 : 1	4.29 : 1	24.0 (38.6)
Reverse	3.33 : 1	4.29 : 1	

Exige Manual

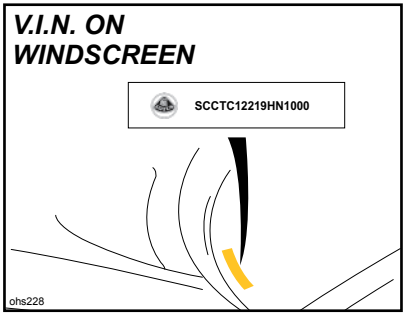
Type 6 speed manual type EA60
Differential Open bevel gear.

Gear	Ratio	Final Drive	mph(km/h) /1000 rpm
First	3.54:1	3.78:1	5.6 (9.1)
Second	1.91:1	3.78:1	10.4 (16.7)
Third	1.41:1	3.78:1	14.1 (22.8)
Fourth	1.09:1	3.78:1	18.2 (29.4)
Fifth	0.97:1	3.24:1	23.9 (38.5)
Sixth	0.86:1	3.24:1	27.0 (43.5)
Reverse	3.83:1	3.24:1	

Exige - Automatic

Type 6 speed automatic U660E
Differential Open bevel gear

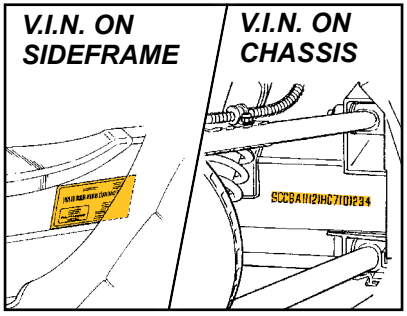
Gear	Ratio	Final Drive
First	3.300:1	3.685:1
Second	1.900:1	3.685:1
Third	1.420:1	3.685:1
Fourth	1.000:1	3.685:1
Fifth	0.713:1	3.685:1
Sixth	0.608:1	3.685:1
Reverse	4.148:1	3.685:1



Vehicle Identification
The seventeen digit V.I.N. (Vehicle Identification Number) is located in 3 separate areas of the vehicle.

It is essential that both the V.I.N. and the engine number are quoted in any correspondence concerning the vehicle, or when ordering spare parts.

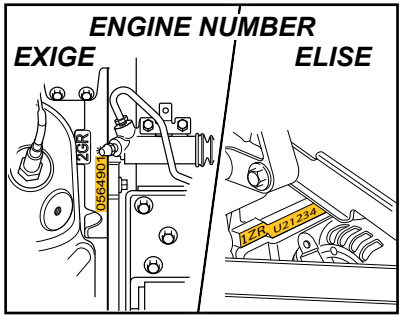
Windscreen: Viewable from the outside of the vehicle, located on a plate positioned between the left hand front edge of the dashboard and inside of the windscreen.



Sideframe: Printed on a label stuck to the inside of the chassis sideframe alongside the driver's seat.

This label also displays the Lotus paint code for vehicle which can be identified as a 3 – 4 digit code prefixed with either the letter 'B' of 'C'.

Chassis: Stamped on the chassis in the right hand front wheelarch area, and can be viewed with the front wheels turned to a right full lock

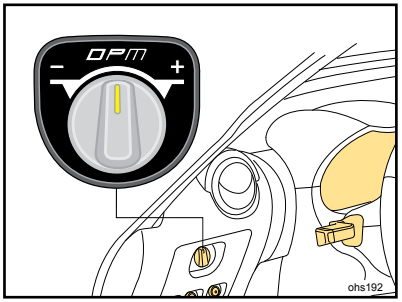


Engine Number
Elise: The engine number is stamped on the left hand front of the cylinder block, alongside the alternator, and is prefaced by either '1ZR' or '2ZR'.

Exige: The engine number is stamped on the left hand rear flange of the cylinder block, alongside the clutch housing joint face.

It is viewable only from beneath after removal of the engine bay undertray and release of a heatshield fixing.

LOTUS DPM SWITCH OPTIONS FOR AUTOMATIC VEHICLES



Lotus DPM Switch for Automatic Vehicles

With the exception of 'Lotus Launch Control' the Lotus DPM (Dynamic Performance Management) system options as shown for manual vehicles on pages 47 - 51 are also available for automatic vehicles but with an alternative method of selection.

Note: Lotus DPM 'Off' mode can only be selected whilst the engine is running, but can be activated either whilst the vehicle is being driven or is stationary.

⚠WARNING

Be aware that selecting Sport Mode and/or Lotus DPM 'Off' will alter the handling characteristics of the car. Drivers should exercise caution until familiarity has been gained in a controlled safe environment.

Lotus DPM Mode Settings

TOUR

1. Lotus DPM fully activated (see page 46 for further details).
2. Exhaust active valve will only open at high throttle/RPM applications (see page 55).
3. Maximum continuous engine speed restricted to 6,600rpm.
4. Manual Gear Selection Mode can be selected, see page 59 for additional information.

SPORT

1. Reduction in Lotus DPM settings allowing increased power induced wheel slippage thresholds and no throttle reduction on understeer.
2. Exhaust active valve now open whilst engine idling, closes at low engine speeds and reopens from medium throttle applications/ engine speeds.
3. Maximum continuous engine speed increased to 7,000rpm.
4. Gear shift points are optimized for improved vehicle performance and faster gear shifts and, if activated, the vehicle will remain in Manual Sequential Gear Mode until the D – Drive button is depressed, see page 59 for additional information.

LOTUS DPM 'OFF'

1. Lotus DPM de-activated.
2. Exhaust active valve opening timing carried over from 'Sport' mode
3. Maximum continuous engine speed increased to 7,000rpm.
4. Gear shifting points and manual sequential gear mode functions are carried over from 'Sport' mode.

RACE (Option)

1. For dry condition track use only. Optimised traction and corner exit characteristics with reduced Lotus DPM intervention.
2. The exhaust valve is now permanently open regardless of throttle position or engine speed.
3. Maximum continuous engine speed increased to 7,000rpm.

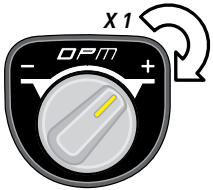
Mode Selection

'Tour' Mode

FOR NORMAL ROAD USE

Lotus DPM switch will remain in the central position for the default 'Tour' mode unless turned clockwise to activate other available DPM settings.

The Lotus DPM tell tale within the instrument panel display will flash when electronic intervention is taking place indicating that the systems tractive limit has been reached.



'Sport' Mode

ONLY FOR SUITABLE ROAD CONDITIONS

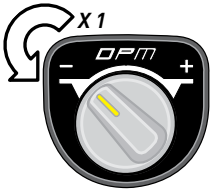
With the ignition on or the engine running, rotate the Lotus DPM switch clockwise ONCE from the central 'Tour' position to '+' symbol and then release.

The switch will return to the central position and the amber '***SPORT***' tell tale in the instrument panel will be illuminated.

The vehicle will immediately engage 'Sports' Mode.

Note: if selected whilst driving, this may cause the exhaust active valve to open without increased throttle pedal depression as well a reduction in the Lotus DPM system functionality.

The Lotus DPM tell tale will flash when electronic intervention is taking place indicating that the systems tractive limit has been reached.

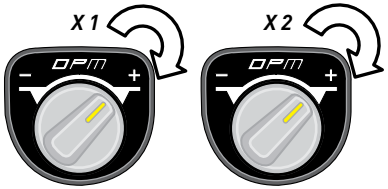


To Switch Off 'Sport' Mode

Rotate the switch counter clockwise ONCE from the central 'Tour' position to the '-' symbol and then release.

Note: The vehicle will revert back to 'Tour' Mode when the ignition is turned off.

LOTUS DPM SWITCH OPTIONS FOR AUTOMATIC VEHICLES



From 'Sport' mode **From 'Tour' mode**

'Race' Mode
(If fitted)

FOR TRACK USE ONLY

If selected from 'Sport' mode: With the engine running, rotate the Lotus DPM switch clockwise ONCE from the central 'Tour' position over to the '+' symbol for approximately one second and then release.

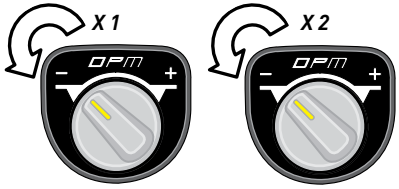
If selected from 'Tour' mode: With the engine running, rotate the Lotus DPM switch clockwise TWICE from the central 'Tour' position over to the '+' symbol and then release.

The switch will return to the central 'Tour' position, the amber ***'RACE'*** and Lotus DPM 'Off' tell tale lamps within the instrument panel will now be illuminated, see page 28 for further details.

Note: if selected whilst driving, the vehicle will immediately engage 'Race' mode, the exhaust active valve will open regardless of the throttle pedal position as well a reduction in the Lotus DPM system functionality.

⚠WARNING

Lotus DPM should always be active when driving on public roads in normal conditions.



Returning to 'Sport' mode **Returning to 'Tour' mode**

To return to 'Sport' mode from 'Race' mode
Rotate the switch counter clockwise ONCE from the central 'Tour' position to the '-' symbol and then release.

To return to 'Tour' mode from 'Race' mode
Rotate the switch counter clockwise TWICE from the central 'Tour' position to the '-' symbol and then release.

Note: The vehicle will revert back to 'Tour' Mode when the ignition is turned off.

Lotus DPM 'OFF'

FOR TRACK USE ONLY

If 'Race' option not fitted: With the engine running with 'Sport' mode already selected, rotate the Lotus DPM switch clockwise ONCE from the central 'Tour' position over to the '+' symbol and then release.

If 'Race' option fitted: With the engine running with 'Race' mode already selected, rotate the Lotus DPM switch clockwise ONCE from the central 'Tour' position over to the '+' symbol for approximately one second and then release.

The Lotus DPM 'Off' lamp within the instrument panel will now be illuminated. See page 29 for further details.

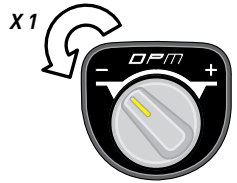
The vehicle will immediately engage Lotus DPM 'Off' Mode.

Note: if selected whilst driving, this may cause the exhaust active valve to open without increased throttle pedal depression as well a reduction in the Lotus DPM system functionality.

⚠WARNING

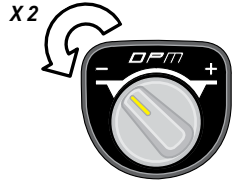
Lotus DPM should always be active when driving on public roads in normal conditions.

To Switch Off Lotus DPM 'Off' Mode



If 'Race' mode fitted: Rotating the switch counter clockwise ONCE from the central 'Tour' position to the '-' symbol will return the vehicle to 'Race' mode.

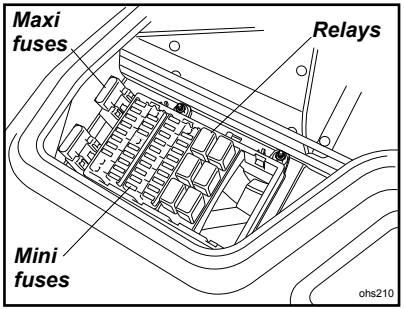
Note: if 'Race' mode is not fitted this will return the vehicle to 'Sport' mode.



If 'Race' mode fitted: Rotating the switch counter clockwise TWICE from the central 'Tour' position to the '-' symbol will return the vehicle to 'Sport' mode'.

Note: The vehicle will revert back to 'Tour' Mode when the ignition is turned off.

MAIN FUSEBOX FOR AUTOMATIC VEHICLES



Main Fusebox

Refer to page 99 for manual vehicles.

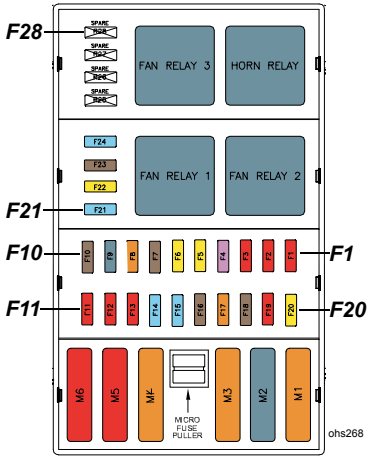
⚠WARNING

Replacing a fuse with one of a higher rating may cause a fire. If a fuse of the correct rating is not available, use one of a lower rating as a temporary measure.

NOTICE: Replacing a fuse with one of a higher rating may cause extensive damage to the vehicle's electrical systems.

The main fusebox is located in the front services compartment on the passenger side. For access, remove the front body access panel, (see page 66) and unclip the fusebox lid.

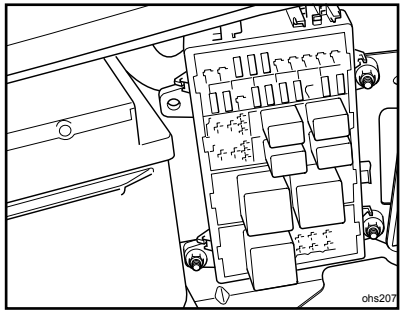
The fuse box contains 28 'mini' and 6 'maxi' type fuses which are numbered and coloured according to their amperage rating, and may be pulled out from their slots using the fuse extractor tool provided on the fusebox lid.



Relays for specific vehicle electrical services are also contained within the fuse box

Slot	*Rate*	*Circuit*
1	10A	Ignition services
2	10A	ABS
3	10A	Stop lamps
4	3A	Rear ignition relay
5	20A	Driver's window motor
6	20A	Passenger's window motor
7	7.5A	Direction indicators
8	5A	Day time running lamps
9	2A	USB charge connector
10	7.5A	Radio/Instrument pnl. key in
11	10A	Sidelamp/rear fog lamp
12	10A	LH dip beam
13	10A	RH dip beam
14	15A	LH main beam
15	15A	RH main beam
16	7.5A	Central door locking
17	5A	OBD
18	7.5A	Radio / switch pack module
19	10A	Alarm
20	7.5A	Instrument Cluster/Headlamp flash
21	15A	Wiper motor
22	20A	Interior fan
23	7.5A	Horn
24	15A	Hazards
25		Spare
26		Spare
27		Spare
28		Spare

M1	40A	ABS main power 1
M2	25A	ABS main power 2
M3	40A	Cooling fan 2
M4	40A	Cooling fan 1
M5	50A	Battery services
M6	50A	Ignition services



Rear Luggage Compartment Fusebox

Refer to page 100 for manual vehicles.

⚠WARNING

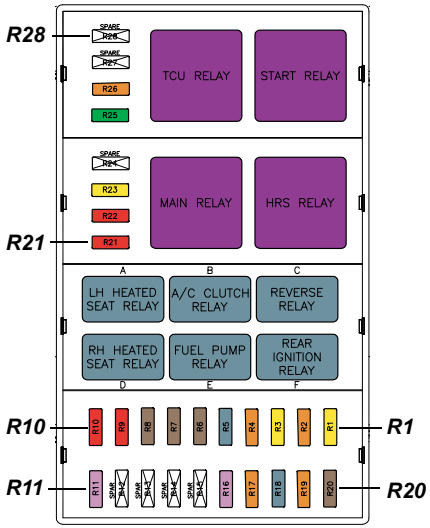
Replacing a fuse with one of a higher rating may cause a fire. If a fuse of the correct rating is not available, use one of a lower rating as a temporary measure.

NOTICE: Replacing a fuse with one of a higher rating may cause extensive damage to the vehicle's electrical systems.

Fusebox Location

To gain access, remove the left hand storage compartment trim panel by pulling it away from the luggage compartment releasing it from its velcro fixings.

The fuse box contains 'mini' type fuses as well as relays for specific vehicle electrical services. The fuses may be pulled out from their slots using the fuse extractor tool provided on the fusebox lid.



Slot	*Rate*	*Circuit*
1	20A	Fuel pump
2	5A	Alternator sense
3	20A	Auxillary power socket
4	5A	HRS SW LED
5	2A	Hot soak pump
6	7.5A	02 heaters
7	7.5A	VIM, VVT, PURGE, ACIS, CVCV, A/C VALVE
8	7.5A	Engine ACC solenoids (Auto only)
9	10A	Coils
10	10A	INJ'S / ECU PWR Fan relays, HTD seat relays
11		Spare
12		Spare
13		Spare
14		Spare
15		Water valve (GCC vehicles only)
16	3A	ECU, F.P Relay (Auto only)
17	5A	Reverse lamps
18	2A	Reverse buzzer
19	5A	Alternator
20	7.5A	A/C clutch
21	10A	LH heated seat
22	10A	RH heated seat
23	20A	HRS
24		Spare
25	30A	TCU (Auto only)
26	5A	Gear lock solenoid (Auto only)
27		Spare
28		Spare

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