DESIGNED FOR RACING, BUILT FOR LIVING

# OWNERS HANDBOOK

Classic Roadspor Superlight

# VEHICLE IDENTIFICATION & OWNER DETAILS

I certify that these details are correct, that the vehicle has been carefully prepared in accordance with Caterham's Pre-Delivery Inspection standards and that the Postbuild Check Voucher has been authorised.	CONTACT No.		The second secon	ADDRESS	OWNER'S NAME	ACCOUNT No.	DATE OF REGISTRATION	DATE OF DELIVERY	ENGINE No.	CHASSIS No.	TRANSMISSION	ENGINE	COLOUR	MODEL Car
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		CODE												44C

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## INTRODUCTION

# Welcome to your new Caterham Seven sports car

of performance well in excess of more mundane road cars. Take the time to read this manual trom ownership as possible. Designed for racing and built for living, your Caterham Seven is competition-developed capable get well acquainted with the controls and understand the maintenance requirements of your car. This will help you appreciate its capabilities to the full and allow you to derive as much pleasure

Caterham approved service agents located around the UK. maintenance programme of regular servicing and checks contained in this manual is adhered strains of enthusiastic driving particularly on the track. Therefore it is essential that the or Caterham Midlands. Alternatively you may find it more convenient to use one of the to. This will ensure that the vehicle is always in the best possible condition and ready for action. As a high performance car, it is likely that your Caterham will be subjected to the stresses and For all servicing we recommend that you return your car to the Attersales at Caterham Darttord

## **Using this Handbook**

and caring for your Caterham. You will find lots of useful and worthwhile advice and tips to help This handbook has been divided into sections, each dealing with the different aspects of owning you get to know and look after your new car, enabling hours of pleasure for years to come.

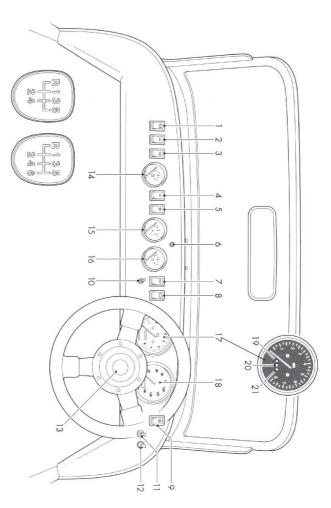
Please take a little time to read each section and get to know your Caterham as soon as you possibly can.

- 'Before Taking to the Road' Includes Controls, Pedal adjustment, Seat adjustment, Weather equipment, Security and other information that you should know before you drive
- 'Useful Information' This section is where you will find all the technical data on your Caterham Seven.
- 'Maintenance' Detailed here are all the regular checks you will need to carry out to ensure you continue to get the best from your Caterham.
- 'In an Emergency' Should an emergency arise then here you will find advice on what you can do, including Jump starting, Checking the fuses, Changing a bulb.
- 'Servicing' This section provides vehicle service information including service schedules. plus an additional section for any future modifications or upgrades to your vehicle Including pages that can be used to keep a record of when and where a service was done

#### WARNING

possibility of personal injury or serious damage to the vehicle. tollowed precisely, or information that should be considered with great care in order to avoid the Safety warnings are included in this handbook. These indicate either a procedure which must be

Figure 1: Dashboard layout for models with standard instruments



gear shift patterns Figure 1a: Five or six speed

11.	10.	9.	.8	7.	6.	5.	4.	ω	2.	1.	Controls
Dipswitch.	Indicator Swtich.	Lights.	Windscreen Wipers.	Windscreen Washers.	Immobilizer Warning Light.	Heater Fan.	Heated Windscreen.	Rear Fog.	Hazard.	Brake Fail.	
	21.	20.	19.	18.	17.	16.	15.	14.	13.	12.	
	Ignition Warning Light.	Indicator Warning Light.	Headlight Warning Light.	Speedometer.	Tachometer.	Oil Pressure Gauge.	Temperature Gauge.	Fuel Gauge.	Horn.	Headlamp Flasher Switch.	

# 1.1 EXPLANATION OF DASHBOARD

Brake Fail

Rear Fog Windscreen Wipers Windscreen Washers Hazard Heater Fan Heated Windscreen

Indicator Switch Dipswitch

Heater Valve Control Headlamp Flasher

> Single position switch activates all indicators. Single position spring loaded switch, illuminates to indicate low fluid level. Press to test bulb.

Single position switch activates rear fog lights when dipped headlights are illuminated Single position switch activates heating elements to demist front windscreen

Two position switch provides low and high speed tan control.

Single position spring loaded switch activates washer jets when depressed

wipe can be activated by switching to low speed and then off again. Repeat to deactivate. 2 position switch to provide low and high speed continuous wipe. In addition an intermittent

3 position switch Left-Off-Right. N.B. non-self cancelling.

2 position switch, first position side lights, second position headlights

2 position switch for dip or main beam.

Single position spring loaded switch to flash headlights.

This is located on the inside of engine compartment bulkhead, above the drivers knee. Pull towards driver to increase heat

#### Speedometer

Indicates road speed in miles per hour and/or kilometres per hour.

#### Digital display

The display shows the following:

- Odometer reading (shows the total distance travelled by the car).
- Trip recorder (for recording individual distances). The word trip is also displayed lourney

## Trip recorder reset button

display to the odometer reading). Press and hold the reset shows the odometer reading. By pressing the trip recorder Whenever the ignition switch is turned on, the display button for two seconds to reset the display to zero. recorder reading (a further press of the button returns the reset button briefly, the display will change to show the trip

Indicates engine speed in revolutions per minute.

above a pre-determined level. NOTE: An electronic limiter will prevent engine speed rising

### Oil Pressure Gauge

assistance. Never restart the engine or drive the car with the engine immediately, satety permittable and seek qualified needle will quickly rise when the engine is started. If the oil pressure gauge indicating red level and severe engine damage could result; switch off the The pointer indicates the oil pressure measured in bar. The pointer talls into the red mark the oil pressure is at a critical

NOTE: The pressure will fluctuate as engine revs change

### Temperature Gauge

lower (cold) mark to the middle part of the gauge, where it During normal operation, the pointer will rise from the This gauge indicates the temperature of the engine coolant.

temperature. will remain while the engine is operating at its normal

In severe driving conditions, such as very hot weather or extended hill climbing, the pointer may rise. If the pointer permits and seek qualified assistance. engine damage could result; stop the car as soon as safety rises to the RED mark, the coolant is too hot and severe

#### Fuel gauge

is turned on. gauge slowly rises to the new level once the ignition switch The pointer indicates the fuel level. After refuelling, the

resultant misfire could destroy the catalytic converter). WARNING! NEVER allow the car to run out of fuel (the

### **WARNING LIGHTS**

### Battery charging – RED

the engine is running. If it remains on, or illuminates whilst driving, a fault with the battery charging system is indicated. Seek qualified assistance urgently. switch is turned to position 'II' and extinguishes as soon as The light illuminates as a bulb check when the ignition

## Direction indicators - GREEN

this means that one of the indicator lights is not operating If the warning light fails to illuminate, or flashes very rapidly right direction indicator lights, whenever they are operated The indicator warning light flashes in time with the left or

## Headlight main beam – BLUE

Illuminates when the headlights are switched to main beam

## Immobiliser Warning light

See section on Immobilisation (page 13).

### Stack Display

(see page 9 for detailed instructions).

Figure 2: Dashboard layout for models with Stack instruments and full windscreen

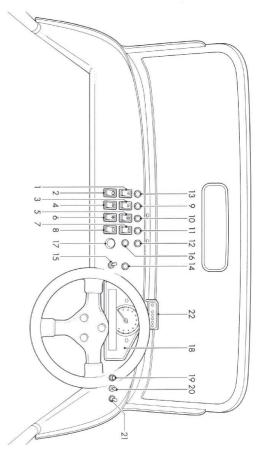
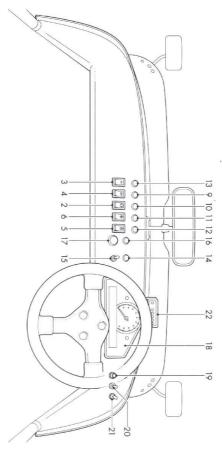


Figure 3: Dashboard layout for models with Stack instruments without windscreen



1 1 1											Cor
	10.	.9	.00	7.	0.	5.	4	ω	2.		Controls
Stock Switch	Stack Switch 2.	Stack Switch 1.	Windscreen Wipers.	Windscreen Washers.	Heater.	Lights.	Rear Fog.	Hazard.	Brake Fail.	Heated Windscreen.	
22.	21.	20.	19.	18.	17.	16.	15.	14.	13.	12.	
Gear change lights (optional)	Headlamp Flash.	Dipswitch.	Horn.	Stack Display.	Push Button Starter.	Main Beam Warning Light.	Indicator Switch.	Indicator Warning Light.	Shift Light Switch.	Stack Switch 3.	

### Stack Display System

displays a range of performance parameters, needed for situations. effective car and driver management in most driving The Stack ST8130 road car display system monitors and

display for the following performance parameters: ST8130 combines an analogue tachometer with a digital

- Vehicle speed (MPH) or (KmPH)
- Engine speed (RPM
- Oil pressure (BAR)
- Oil temperature (°C)
- Water temperature (°C)
- Fuel level (litres)
- Battery Voltage (volts)
- (optional) available from aftersales Lap times (last completed and best)

alarm light, which stays on until the condition no longer switch. Doing this does not turn off the warning condition The warning message can be cancelled by pressing any disable the warning system for each parameter individually. display to identify the condition. It is possible to enable or switched on, a warning message is shown on the digital parameters 3-7. When the warning condition alarm light is set alarm values for the above listed performance been detected. The warning conditions are based on pre-An alarm light alerts the driver that a warning condition has

### The Display Module

indicator lights, and a digital display panel The display module consists of an analogue tachometer, two

## Operating the Display System

changed by pressing switch 3. three parameters and their values. The digital display has five display levels each showing three parameters and their values. The levels can be

### Display Level 1

Level 1 shows:

- Fuel level
- Current speed (mph or km/h)
- Odometer Trip indicator

Press switch 3 to see level 2

### Display Level 2

Level 2 Shows:

- Oil temperature (Deg C or F)
- Current speed (MPH or KM/H)
- Oil pressure (lb ft or bar)

displays temperatures that are less than this as 0°C or 32°F. the display gives a true reading is 12°C or 53°F. The unit Press switch 3 to change to level 3. **NOTE:** The minimum oil and water temperature for which

### Display Level 3

Display level 3 show:

- Water temperature (Deg C or F)
- Current speed (MPH or KM/H)
- Oil pressure (lb ft or bar)
- Press switch 3 to change to level 4.

### Display Level 4

Display level 4 shows:

- Current speed (MPH or KM/H)
- set-up. This will default to a reading of -999 Ambient air temperature is shown but not utilised in the Battery Voltage (Batt)

Press switch 3 to change the display to level 5 if you have the lap timing kit installed (optional) or back to level 1.

## Display Level 5 (optional)

- Display level 5 shows Number of current lap
- Current speed (MPH or KM/H)
- Last lap time
- Previous best lap time

the optional lap timing kit. Lap time can be recorded manually using Switch 4 or with Press switch 3 to change the display back to layer 1.

## Peak values (Tell Tales)

a predefined RPM value that is used to control when the not be enough to update the peak values. The gate value is Peak values are updated only when the engine speed has recorded during a run for all the monitored parameters. the peak value, as in the following table: The system stores either a maximum or a minimum value as engine is either not running, is idling, or is being warmed up. peak values from being recorded when, for example, the system updates the peak values. This is to prevent abnormal This allows the values to stabilise. Blipping the engine may exceeded its "gate value" for RPM for at least one-second The system can display the peak values that have been

Wheel Circum mm	Shift Light RPM			Engine Pulse Cycles	Battery Volts	Fuel Level Litres		Oil Temperature °C	Oil Pressure Ps	Channel Units
1	1	1	1	1	Min		Max	Max	Min	Tell-Tale
1000	9000	1200	4	4	11.5	Ci	100	130	20	Default
Yes	Yes	₹ ŏ	₹ ŏ	ş	8	Ş	ğ	Ş	7	Adjus

non R500 taking up the option **NOTE:** The wheel circumference requires manual setting for self builds, and the shift light requires manual setting for

## Displaying the Peak Values

return to the normal display parmeters currently being displayed. Release the switch to Press and hold switch 1 to show the peak values for the

### Peak Value Memory

by an internal back-up battery. They remain stored in this from the system. The internal battery needs to be changed every 4-5 years. When the power from this battery drops memory when the external power source is disconnected The peak values are stored in a memory, which is powered aftersales when this occurs "Internal Battery Low" is displayed. Contact Caterham below a safe level, an alarm is triggered and the warning

alarm values. For example, a warning is signalled if the oil pressure exceeds the threshold set for the alarm). come on at power-up until the engine is started and rises above its alarm value. (The oil pressure alarm will pressure falls below its alarm value or if the oil temperature when certain parameters either exceed or fall below their The display system has built-in warnings to alert the driver

engine is either not running, is idling, or is being warmed predefined RPM value that is used to control when the not be enough to trigger a warning. The gate value is a up. Once the engine has been running above the gated warnings from being triggered when, for example, the system is to trigger a warning. This is to prevent abnormal for RPM for at least one second. Blipping the engine may only after the engine speed has exceeded its "gate value" Some of the warnings (see the following table) are triggered RPM for one second, any problems will trigger an

The display system has the following built-in alarms:

Parameter	Alarm is triggered when the:	<b>Q</b>
Oil Temp	Current value exceeds the pre-set	e e
Water Temp	Water Temp Current value exceeds the pre-set	€
Oil Pressure	Oil Pressure Current value drops below the pre-	Z
Fuel Level	set value Current value drops below the pre-	Z
Battery Volt	set value  Battery Volt Current value drops below the pre- set value	Z

### Displaying an Alarm

When an alarm condition occurs, the built in red warning message to show the type of alarm. light turns on, and the digital display gives a warning

NOTE: The amber light indicates low fuel warning

### Clearing an Alarm

## Showing the Last Alarm

Press and hold switch 2.

### Lap Times (optional)

time sensor when passing the lap time beacon or when the The most recent lap time is held in display level 5. driver presses switch 4. The lap time for each lap is recorded either by the infrared

## Resetting the Lap Time to Zero

recording the time immediately. lap count and lap time to zero. The lap timer starts Press and hold switch I and then press switch 4 to reset the

Display System. The normal functions of the four switches The four switches are used to control the functions of the

& 2 together Switches 1 & 3 together Switches 1 & 4 together	Switches 1	Switch 4	Switch 3	Switch 2	Switch 1	Switch
Change speed units to MPH or km/h (UK version only). Reset the peak values and lap times.	Set Up mode.	alarm.  Reset the trip distance to zero and start the lap timer. The trip distance is reset after each lap.	Change the display level and clear an	Clear an alarm and show the last alarn	Show the peak values.	Functions

## 1.2 BEFORE YOU DRIVE AWAY

## Pedal Adjustment Facility

an opportunity for the owner to tailor an optimum driving This is not intended to give instant adjustment but provides All cars are fitted with an adjustable pedal box assembly

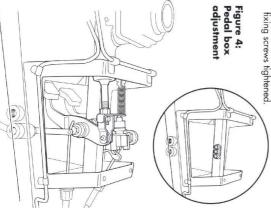
operation of the brake master cylinder. will restrict pedal travel, interfering with the correct is important not to move the pedals too far forwards as this can thus be moved backwards and torwards as required. It middle of three positions, unless specified otherwise, and When the car leaves the factory the pedals are set in the

should be followed:-In order to move the pedals the procedure set out below

- Position the driving seat to suit your reach to the how far the pedals need to be moved steering wheel and gearlever, then assess whether and
- Remove the pedal box lid which is held in place by 8 screws
- ≣ Adjust the brake pedal, which can be achieved in two ways.
- By increasing the effective length of the master cylinder pushrod which has an adjustable clevis.
- appropriate, this option will also move the clutch hole to either the rear hole or the front hole where By moving the fulcrum position from the middle
- ₹ The clutch pedal can now be levelled up to the brake pedal by adjusting the cable at the bellhousing.
- < of the two provided in the chassis. bolt. This bolt is screwed into the front mounting bush Finally the throttle pedal pivots around its mounting
- It may be necessary to bend the top of the throttle pedal to enable full throttle movement as the adjustment on the cable is limited

≤.

≦: The pedal box lid can now be replaced and the eight fixing screws tightened



#### WARNING

nut and bolt have been tightened. Always check to ensure pedals move freely once the fixing

adjustment available on the pushrod will not be sufficient. **NOTE:** that if the movement required is more than 2" then the

## Seats and seat belts

## Forward/backwards adjustment

position before driving off. seat to slide back or forward. Ensure the seat is locked in Push the lever to one side to release the catch enabling the

#### **WARNING!**

DO NOT adjust the seats while the car is in motion.

### **Head Restraints**

reduce the risk of neck and head injuries. stop – a properly adjusted head restrain can considerably movement of the head in the event of an accident or sudden Head restraints are designed to restrain rearward

with the back of the head. height of the restraint, so that the padded cushion is level Lift or push down on the padded cushion, to adjust the

#### WARNING

the cushion is level with the back of the head - NOT THE NECK! Where possible, adjust the height of a head restraint so that

fitment of the tonneau cover. The head restraints can be removed completely to allow for

#### **WARNING!**

Never drive the car with the head restraints removed.

Seat belt safety

by adult sized occupants, and must be used by to themselves and to other occupants as well. occupant ONLY. Seat belts are life saving equipment. In a inside, or possibly thrown out of the car, resulting in injury collision, unrestrained passengers can be thrown around The seat belts supplied with your car, are intended for use

### in at all times. ENSURE that the passenger is securely strapped

- webbing. DO NOT slacken the webbing by pulling the ALWAYS adjust seat belts to eliminate any slack in the belt must remain in full contact with the body at all times belt away from the body – to be fully effective, the seat
- passes across the chest, without slipping off the abdomen), ALWAYS fit the lap strap across the pelvis (never across shoulder, or pressing against the neck. and ensure that the diagonal strap
- could impede its smooth operation. seat belt that is twisted or obstructed in any way that DO NOT lit more than one person into a belt, or use a
- DO NOT wear seat belts, over hard or tragile items in clothing, such as pens, keys, spectacles etc

- DO NOT allow a baby or infant to be carried on the lap. The force of a crash can increase effective body weight by as much as 30 times, making it impossible to hold on to the child.
- DO NOT allow foreign matter to enter the seat belt buckles as this can render the buckles inoperative.
- Pregnant women should ask their doctor for advice about the safest way to wear seat belts.

### Caring for seat belts

Regularly inspect the belt webbing for signs of fraying, cuts and wear, also paying particular attention to the condition of the fixing points and adjusters.

Care should be taken to avoid contamination of the webbing from the affects of polish, oil and chemicals (see 'Cleaning & car care').

## Three tests for checking seat belts

- With the seat belt fastened, give the webbing near the buckle a quick upward pull – the buckle should remain securely locked!
- With the seat belt unfastened, unreel the webbing to the limit of its travel. Check that unreeling is free from snatches and snags.
- 3) With the webbing half unreeled, hold the tongue plate and give it a quick forward pull – the mechanism must lock automatically and prevent any further unreeling! If a seat belt should fail any of these tests, contact Caterham Cars immediately.

#### WARNING

Always replace seat belt assembly that has withstood the strain of a severe vehicle impact, or one where the webbing shows signs of fraying.

## Weather equipment

Erecting the hood can be difficult if the correct procedure is not followed, therefore we recommend that the following sequence is adopted:-

- Freet the hoodsticks, slacken the buckles to allow the front hoodstick to collapse forwards.
- front hoodstick to collapse forwards.

  ii) Unfold the hood and clip it onto the windscreen first.
- ii) Unfold the hood and clip it onto the windscreen first.
   iii) Stretch the rear of the hood over the back of the car and clip it over the poppers situated on the backpanel starting at the outside and working into the centre.
- Attach to the remaining poppers on the sides of the vehicle.
- v) From the inside of the car tension the hood by pulling on the loose end of the straps retensioning the buckle (the buckle will automatically lock in position when released). The straps should be adjusted until the front hoodstick is in line with the hood seam. (see diagram)
   vi) The Velcro lined strips inside the hood should now
- vi) The Velcro lined strips inside the hood should now capture the front hoodstick, which prevents the hood from ballooning at speed.
- vii) The tops of the sidescreens tuck under the flaps on the hood sides in order to make the hood watertight. At the rear, however, the sidescreens overlap the hood.

## Figure 5: Tensioning the hood

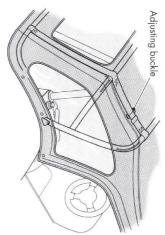
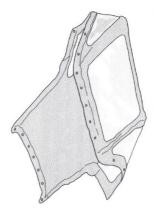
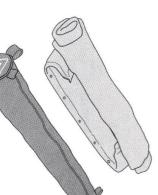


Figure 6: Hood folding procedure







### Removal and Storage

To remove the hood slacken the buckles and remove in reverse to the above.

It is important that the hood is folded correctly when removed in order to avoid unsightly creases and prevent the clear plastic windows being scratched. We suggest that it is always folded and then rolled as shown in the adjacent diagram.

To help prevent damage, and free up storage space, a protective hood bag is available from Caterham Cars Parts Counter.

**NB** Never store hood when wet.

#### Security

#### Security Card

The card, supplied as part of this handbook, contains important emergency information. It is important that you keep the card safe from theft and ensure that it is passed to the new owner if you sell the car.

- Key number: Ignition and fuel. These numbers are essential if you ever need to obtain a replacement key.
- essential if you ever need to obtain a replacement key.

  VIN (vehicle identification number): This identity number is unique to your car and is essential proof of its specification. The number can also be found in various locations around the car.

#### WARNING!

NEVER leave the card inside the car when it is unattended.

### Keys/key numbers

You have been supplied with 4 keys: 2 for the ignition and 2 for the fuel cap. The numbers for these can be found on a small tag attached to the key ring.

You will also have been supplied with 2 remote control handsets (Rover robust immobiliser) or 2 encrypted codeplugs (Shurlock EP100 immobiliser).

Please make sure that both key numbers have been entered in the space provided on the Security Information Card.

#### WARNING!

Keep the Security Information card, key tag, spare key and handset in a safe place – NOT IN THE CAR!

If the key or handset is lost, contact Caterham Cars, who can supply replacement or additional keys and handsets.

#### Immobilisation

Most Caterhams are fitted with an immobiliser as standard, this will be one of two types:

All 16 valve (except R300, R400 and R500) "Rover robust immobilisation".
R300, R400 and R500 "Shurlock robust immobilisation".

Rover robust Immobilisation – handset operation All cars fitted with the K series 16-valve engine are supplied with a "Rover Robust Immobiliser" system fitted as standard with the exception of R300, R400 and R500.

This system is self-arming, however it can also be manually armed using the handset provided.

The handset has two buttons:
1. Button with closed padlock embossed on it

2. Plain button.

### Arming the system

To manually arm the system depress button 1 once. The red LED on the dashboard will flash quickly for approximately 30 seconds then will slow to a steady flash that will remain active until the system is disarmed.

## Automatic arming of the system

If the system is not manually armed approximately 1 minute after the ignition has been switched off it will be automatically armed.

### Disarming the system

To disarm the system depress the plain button once. The red LED on the dashboard will stop flashing and go out.

## Changing the handset battery

The handset supplied with your immobiliser requires a battery that should be replaced periodically. The handset battery should last for approximately three years dependent upon use. A good sign that the battery needs replacing is reduced range of the signal from the unit. (Normally 1-2 metres). Should the battery fail completely you will not be able to disarm the system.

Always fit a CR2032 replacement battery and adopt the following replacement procedure:

- Carefully prise the handset apart, starting from the keyring end using a coin or small screwdriver. Avoid damaging the seal between the two halves of the case and DO NOT allow dirt or moisture to get inside the handset.
- Slide the battery out of its clip, taking care to avoid touching the circuit board or the contact surfaces of the clip.
   Press and hold each button in turn for at least five seconds (this will drain any residual power from the beneficial)
- handsel).
  4) Fit the new battery, ensuring that correct polarity is maintained (positive ("+") side facing up). Finger marks will adversely affect battery life; if possible, avoid touching the flat surfaces of the battery and wipe them clean before
- 5) Reassemble the two halves of the handset.
- 6) Operate the lock button of the handset at least four times. The handset is now ready for use.

#### WARNING!

The handset contains delicate electronic circuits and must be protected from impact and water damage, high temperatures and humidity, direct sunlight and the effects of solvents, waxes and abrasive cleaners.

**Vehicle battery disconnection.** If the car battery is disconnected for any reason, the status of the security system prior to disconnection, will be memorised and automatically reset when the battery is reconnected.

#### Shurlock EP100

You have been provided with 2 plastic code-plugs (keys) 1 The Shurlock EP100 is an encrypted code-plug immobiliser

The Black plug should be attached to your key ring, as this Black and 1 Red.

The Red plug is a master Plug and should be kept in a safe will be required when disarming the system. place. This plug is unique to your system and cannot be

replaced it lost.

with the immobiliser. this plug can be found in the detailed user manual supplied the Black one. Further information on when and how to use This Red code-plug must not be used as a replacement tor

## BASIC OPERATING INSTRUCTIONS

## Arming the immobiliser

is switched off the system will automatically arm, thereby disabling the vehicle. This immobiliser is self-arming. 30 seconds after the ignition

- The red LED on the socket will flash continuously.
- The buzzer will bleep twice.
- Your vehicle will not start.

## Disarming the immobiliser

and wait until the red LED stops flashing. The following will Insert the black code-plug into the socket on the dashboard

- The buzzer will bleep once.

The red LED will stop flashing and remain off.
 Now remove your code-plug from the socket and start the

system will rearm and you will need to repeat the above procedure to enable the vehicle to start. Should you not start the engine within 30 seconds the

immobiliser is disarmed. For information on how to do this should the need arise, however this one off change will manual supplied with the immobiliser. and other programming functions please refer to the user revert back to the default 30 seconds the next time the It is possible to extend the arming delay time to 5 minutes

positions to operate the steering lock, electrical circuits and **Ignition Switch and Steering Lock**The ignition switch uses the following sequence of key

### 'O' - Steering locked

and most electrical circuits are non-operational With the key removed, the steering column will be locked

### 'I' - Steering unlocked

Turn the switch to position 'I' to unlock the steering.

## 'II' – Electrical circuits on

With the switch in position 'II', all electrical circuits are

## 'III' – Starter motor operates

automatically return to position 'II') release the key as soon as the engine starts (the key will Turn the switch to position 'III' to operate the starter motor;

#### Steering Lock

### To unlock the steering:

necessary to disengage the lock. 1' - a small movement of the steering wheel may be Insert the key FULLY and turn the ignition switch to position

### To lock the steering:

key and turn the steering wheel until the lock engages. With the ignition switch turned to position 'O', remove the

have a steering lock mechanism fitted NB Cars fitted with quick release steering wheels do not

#### WARNING!

Once the steering lock is engaged, it is impossible to steer

position 'O', while the car is in motion. DO NOT remove the key, or turn the ignition switch to

## Starting the engine

in the 'Catalytic converter' section. the engine, you should be aware of the precautions detailed damaged through improper use, particularly if the wrong fuel is used, or if an engine mistire occurs – before starting the procedures below. Catalytic converters are easily Betore starting the engine, ENSURE you are familiar with

be fatal. monoxide, which can cause unconsciousness and may even Never start, or leave the engine running, in an unventilated building – exhaust gases are poisonous and contain carbon

### Starting the engine:

- 1) Check that the handbrake is on and that the gear lever
- 3) Turn the ignition switch to position 'III' and release the Switch off all unnecessary electrical equipment.
- NOT operate the starter for more than 15 seconds at a DO NOT press the accelerator pedal while starting and DO least 10 seconds before trying again. time. If the engine fails to start, switch off and wait for at key as soon as the engine has started.

the clutch before starting and hold it down until the engine is running. **NOTE:** When the battery is in a low state of charge, depress

### but will not continue running: What to do if the engine fails to start, or starts

- operating the starter. DO NOT operate the starter for Press the accelerator pedal half way down while more than 15 seconds and release the accelerator as soon as the engine tires.
- is not operated for more than 15 seconds and release clear the engine of excess fuel. Ensure the starter motor If the engine still fails to start, operate the starter again, the accelerator as soon as the engine has started this time FULLY depressing the accelerator pedal to
- DO NOT pump the accelerator pedal during starting

## Starting in cold climates

starting and hold it down until the engine is running. Note In treezing conditions, fully depress the clutch pedal while charging light may take several seconds to extinguish. that engine cranking times will increase and that the battery

#### Warming up

In the interest of fuel economy, it is advisable to drive the car labouring the engine before the normal operating soon after starting, remembering that harsh acceleration, or temperature has been reached, can damage the engine.

#### Running-In

heed the following advice: drive with consideration for the running-in process and During the first 500 miles (1,000 km) it is essential that you in' and adjust to the demands of everyday motoring. The engine, gearbox, brakes and tyres need time to 'bed

- DO NOT allow the engine to exceed 4,000 rev/min in
- DO NOT operate at full throttle in any gear.
- DO NOT allow the engine to labour in any gear.
- AVOID heavy braking.
- speeds may be gradually increased. After the running-in distance has been completed, engine

#### Fuel Economy

Fuel consumption is influenced by two major factors:

- How your car is maintained.
- How you drive.

is maintained in accordance with the manufacturers To obtain optimum fuel economy, it is essential that your car recommendations.

effect on fuel consumption. But above all, the way in which pressures and wheel alignment, can have a significant you drive is most important. The following hints may help Items such as the condition of the air cleaner element, tyre you to obtain even better value trom your motoring:

- Avoid unnecessary short, start-stop journeys.
- Avoid fast starts, by accelerating gently and smoothly from rest.
- Do not drive in the lowers gears for longer than
- Decelerate gently and avoid sudden and heavy braking
- accordingly well in advance. Anticipate obstructions and adjust your speed

# Always remember; driving gently saves fuel!

## Catalytic Converter

reducing atmospheric pollution. the engine into environmentally less harmful gases, thereby converter, which convert poisonous exhaust emissions from The exhaust system on your car incorporates a catalytic

#### WARNING

improper use, particularly if the wrong fuel is used. For this The catalytic converter can be easily damaged through

> precautions: reason, it is VERY IMPORTANT that you heed the following

### Filling up with fuel:

Use ONLY fuel recommended for your car (see Technical Data

### Starting the engine:

- DO NOT continue operating the starter, if the engines catalyst) – seek qualified assistance. drawn into the exhaust system, thereby damaging a fails to start after a few attempts (unburnt fuel may be
- start the car. Instead, turn the ignition switch off the car, or attempt to clear the misfire by pressing the If a misfire is suspected when starting, DO NOT drive immediately and seek qualified assistance. accelerator pedal. DO NOT attempt to push or tow

#### Driving the car:

- power while driving, it may be driven SLOWLY (at risk Provided the engine has reached its normal operating temperature, if a misfire is suspected or the car lacks
- NEVER allow the car to run out of fuel (the resultant mistire could destroy a catalyst). of catalyst damage) to Caterham Cars for assistance.
- An engine burning excessive oil (blue smoke from the exhaust), will progressively reduce catalyst efficiency.
- Do not overload the engine.

#### Switching off:

DO NOT switch off the engine whilst the car is in motion, with a forward or reverse drive gear selected

### Vehicle maintenance:

- Any engine misfire, loss of engine performance or do not tamper with the engine and that regular accord-ance with the service interval plan included in main-tenance is carried out by Caterham Cars, in converter. For this reason, it is vital that unqualified persons engine run-on, could seriously damage the catalytic this book.
- a spark plug. DO NOT run the engine with a spark plug or lead removed, or use any device that requires an insert into

#### **WARNING!**

in dry weather a fire could result or leaves, could come in contact with the exhaust system on ground where combustible materials, such as dry grass Exhaust temperatures can be extremely high; DO NOT park

#### Gearbox

to rest naturally between 3rd and 4th gears. and, in the neutral position, the gear lever is spring loaded Synchromesh engagement is provided on all forward gears The gear positions are indicated on the gear lever knob.

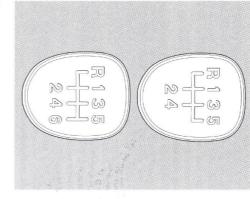
### Selecting reverse gear

to the left and forwards. pushing the knob downwards prior to moving the lever fully Betore selecting reverse gear, ENSURE THE CAR IS pause briefly before moving the gear lever into position by STATIONARY; then, fully depress the clutch pedal and

## Precautions while driving

#### DO NOT rest your hand on the gear lever while driving; excessive wear to the clutch will result! driving; pressure transmitted from your hand, may DO NOT rest your foot on the clutch pedal while cause premature wear to the gear selector mechanism

#### Figure 7: Five and six speed gear shift patterns



#### available at garage forecourts, will vary in different **USE ONLY UNLEADED PETROL** requirement and can be sately exceeded. countries. The RON value quoted below, is a MINIMUM

automatically cuts-off the fuel supply. DO NOT attempt to Always till the tank SLOWLY, until the filler nozzle

sufficiently to fully open the flap before filling. fuel. A flap lies across the filler neck; insert the filler nozzle of the type found on pumps that deliver ONLY unleaded The filler tube is designed to accept a narrow filler nozzle,

#### Petrol Engines:

The RON value (octane rating) of petroleum commonly

98 RON R300, R400 and R500. 95 RON ALL CARS EXCEPT R300, R400 and R500;

provided engine 'knocking' does not occur. limited period of moderate, or low speed motoring, unavailable), lower octane rated tuel can be used for very IN AN EMERGENCY (and only if the correct fuel is

catalytic converter will occur, if incorrect fuel is used. USE ONLY UNLEADED PETROL. Serious damage to the

expansion of the fuel. fill the tank beyond this point, or spillage could result due to

damage the rear brakes.

**WARNING!** 

DO NOT drive with the handbrake applied; this could

#### WARNING!

expansion of the tuel could cause spillage. DO NOT fully fill the tank if the car is to be parked on a slope in direct sunlight, or high ambient temperature –

The fuel delivery rate of filling station pumps, can vary significantly from one garage forecourt to another. This,

### Filling difficulties

If individual owners experience difficulty, the following a sensor which automatically cuts off the supply as soon as coupled with the fact that modern pumps are equipped with neck, could result in isolated fuel filling problems. turbulence is detected in the upper part of the car's filler

advice may be useful: Hold the filler gun with the trigger directly below the nozzle (at right angles to the ground). Twisting the gun

Fill the tank slowly - DO NOT fully squeeze the trigger. to either side, is unlikely to ease the filling process.

## **Braking System**

The hydraulic braking system operates through dual circuits; if one circuit should fail, the other will continue to effort and longer stopping distances will be required. EXTREME CAUTION and be aware that much greater pedal slow speed to get home. In these circumstances, exercise one circuit is operational, the car should ONLY be driven at function. However, in the event of a brake failure where only

#### **Brake pads**

the first 400 miles (650 km), avoid situations where heavy Brake pads and linings require a period of bedding in. For braking is required.

optimum satety and performance. brake components are examined for wear at the correct intervals and changed whenever necessary to ensure Remember that regular servicing is vital, to ensure that the

#### WARNING!

causing excessive wear. DO NOT rest your foot on the brake pedal while driving; this may overheat the brakes, reducing their efficiency and

Handbrake

you park the car. To release, pull the lever up slightly should not require adjustment. To apply the handbrake, pull depress the button and fully lower the lever the lever up. Always apply the handbrake FULLY whenever The handbrake operates on the rear wheels only and

#### **USEFUL INFORMATION - Engine Specifications**

	K Series	K Series	MG Xpower	MG Xpower	MG Xpower	MG Xpower	MG Xpower
	105	120	140	WC 180	R300	R400	R500
Engine Type	4 cyl-in-line	4 cyl-in-line	4 cyl-in-line				
Capacity	1397 cc	1588 cc	1796 cc	1796 cc	1796 cc	1796 cc	1796 cc
Bore	73mm	80mm	80mm	80mm	80mm	80mm	80mm
Stroke	79mm	79mm	89.3mm	89.3mm	89.3mm	89.3mm	89.3mm
Cylinder Head	16v DOHC	16v DOHC	16v DOHC				
Valve Actuation	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Mechanical	Mechanical	Mechanical
Compression Ratio	10.5:1	10.5:1	10.5:1	10.5:1	10.8:1	11.0:1	11.5:1
Maximum Power	105bhp@6000rpm	120bhp@6000rpm	140bhp@6750rpm	160bhp@7000rpm	160bhp@7000rpm	200bhp@7500rpm	230bhp@8600rpm
Maximum Torque	95lbft@5000rpm	107lbft@3000rpm	124lbft@5000rpm	130lbft@5000rpm	130lbft@5000rpm	150lbft@5750rpm	155lbft@7200rpm
Maximum RPM	6800rpm	6800rpm	6800rpm	7000rpm	7600rpm	8000rpm	8600rpm
Gear change up light	Sequential (option)	Sequential (option)	Sequential (option)	Sequential (option)	Sequential	Sequential	Sequential
Ignition System	MEMS elecronic	MEMS electronic	MEMS elecronic	MEMS electonic	MBE elecronic	MBE electronic	MBE elecronic
Induction System	Single butterfly	Single butterfly	Single butterfly	Single butterfly	Four port roller barrel	Four port roller barrel	Four port roller barrel
Fuel System	Multi point injection	Multi point injection	Multi point injection				
Fuel Type	Unleaded 95 RON	Unleaded 95 RON	Unleaded 95 RON	Unleaded 95 RON	Unleaded 98 RON	Unleaded 98 RON	Unleaded 98 RON

2 seater, convertible sports car.

#### Construction

Aluminium panels with aluminium honeycomb cockpit side Tubular steel space frame.

Glass fibre or Carbon fibre nose-cone and wings. impact protection.

Front Track (Classic/Roadsport)	Wheelbase SV	Wheelbase	Dimensions	
50.0 in	90.8 in	88.5 in		
1270	2305	2225		

Luggage Compartment Capacity SV	Luggage Compartment Capacity	Seat to Roof Height SV	Seat to Roof Height	Width SV	Width	Passenger Compartment Internal	Turning Circle SV	Turning Circle	Superlight	Classic/Roadsport	Minimum Ground Clearance	Overall Height (Hood Down)	Overall Height SV (Hood Up)	Overall Height (Hood Up)	Overall Width SV	Overall Width			Overall Length (Classic/Roadsport)	Rear Track SV	Rear Track	Front Track SV	Front Track (Superlight)	Front Track (Classic/Roadsport)	Wheelbase SV	Wheelbase
	4.2 cu ft	34.0 in	33.0 in	43.7 in	36.6 in		433.0 in	393.7 in	3.1 in	4.0 in		39.0 in	45.0 in	44.0 in	66.3 in	62.0 in	138.9 in	122.0 in	133.0 in	56.9 in	52.5 in	56.9 in	52.5 in	50.0 in	90.8 in	88.5 in
	ft 120 lhr	865 mm	838 mm	1110 mm	930 mm		11 M	10 M	80 mm	102 mm		990 mm	1140 mm	1115 mm	1685 mm	1575 mm	3530 mm	3100 mm	3380 mm	1446 mm	1336 mm	1446 mm	1336 mm	1270 mm	2305 mm	2225 mm

#### Kerb Weights

R500	R400	R300	SV	Roadsport	Weight Classic
					540 kg
max	max	max	max	max	max
					840 kg

### **Braking System**

(Classic, Roadsport, SV) low fluid level Twin circuit, equal split front/rear, with system warning of Front discs Discs front and rear Disc Diameter: 9.0 in (229 mm) Swept area: Pad area: 14.7 in<sup>2</sup> (9500 mm<sup>2</sup>)

> Front discs Uprated brake (R300, R400 and R500):aluminium 4 pot calipers 10" ventilated discs with

				(All variants)	Rear discs
149.0 in <sup>2</sup> (96700 mm	Swept area:	14.0 in <sup>2</sup> (9500 mm <sup>2</sup> )	Pad area:	9.0 in (229 mm)	Disc Diameter:

hand lever. Parking brake operating on rear wheels, actuated by

 ront Double wishb	uspension
wishbones	
(adju	

Rear	Front
De Dion axle Located by lower 'A' frame and radius arms or 'A' Frame and Watts linkage. Adjustable anti-roll bar (optional) Springs Progressive Coil	Double wishbones (adjustable), anti-roll bar Springs Linear Coil Dampers Telescopic

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Dampers Telescopic

1.75	Race	
1.93	Standard	Turns lock to lock
	Rack and Pinion	Mechanism

### Wheels and Tyres

					υ (	<u>u</u> u	a i						_			
Pressures (PSI)						R500	Pressures (PSI)		R300, R400	Pressures (PSI)		Roadsport	Pressures (PSI)		Classic	AALIGERS CHICALIA
Front	Rear	Front	Tyres	Rear	Front	Wheels	Front	Tyres	Wheels	Front	Tyres	Wheels	Front	Tyres	Wheels	
18 Rear 20	Avon 205/55 CR500 13	Avon 175/55 CR500 13		81/sJ x 13" Mag split rim	61/51 x 13" Mag split rim		18 Rear 18	Avon 195/45 CR500 15	6½J x 15" alloy	20 Rear 20	Avon 185/60 HR 14	Wheels $6J \times 14''$ alloy	20 Rear 20	Avon 185/70 R 13	5½J x 13" alloy	

## Wheel and tyre options

the same of the same of			
15"	Wheels	6%J x 15 alloy	
	Tyres	Tyres Avon 195/50 VR 15	VR 15
Pressures (PSI)	Front	18 Rear	18
16"	Wheels	7J x 16 alloy	
	Tyres	Avon 205/45	VR 16
Pressures (PSI)	Front	16 Rear	16

149.0 in<sup>2</sup> (96700 mm<sup>2</sup>)

### Road wheel nut torque

55lbft 75nm

#### Electrical 12

Battery Capacity	Alternator output:	12 Volt, Negative earth
30 amp/hrs	45 amperes	

### Fluid Capacities

1		
		wet sump with oil/
4.5 litres		(incl Filter) wet sump
41.37 litre	9.1 gal	Tank SV
36.3 litre	8.0 gal	Tank Std
		a adjantino

<u>의</u> 등 Fuel

Gearbox 5/6 speed dry sump Air Separator 1.2 litres 1.9 litres 6 litres / litres

Differential are approximate and the correct level should be obtained via the level plug) (Gearbox and differential fluid capacities

Optional to		Cooling
ional triple pass radiator	(with Heater)	Standard radiator
add 0.5 litres	add 0.6 litres	4.5 litres

## Recommended Fluid Specification

All cars	Engine Oil

Comma Syner-Z Synthetic Ow-40

Performance/	
Track driving	Caterham Motorsport Oil 5W-50
Gearbox Oil*	
5/6 speed	Caterham Gearbox Oil GL4 grade
Differential	
All cars	Caterham Differential Oil EP90
LSD's	Lubequard Limited Slip Diff additive

\* Under no circumstances use a GL5 grade oil

Engine Coolant Brake Fluid

Comma Xstream Red OAT Comma DOT4

### Manual Transmission

Clutch Actuation VVC Hydraulic Clutch Actuation, all models except VVC Mechanical (Cable) Clutch Diameter 7.5 in (190 mm)

Final Drive Ratio Superlight Final Drive Ratio Roadsport Final Drive Ratio Classic 3.92:1 3.92:1 3.62:1

	R	S	4	W	2	_		5	Q
	3.66	0.82	1.00	1.37	1.97	3.65		5 spd Classic	Gearbox ratios
	R	S	4	ω	2	_		S	v
	3.37	0.82	1.00	1.26	1.81	3.36		5 spd Roadsport	
,	0	Cr	4	ω	2	_	Sc	60	
0	1.00	1.13	1.32	1.59	2 2.01	2.69	Superlight	6spd Roadsport	

### TRACK USE

### YOUR CATERHAM SEVEN ENJOYING TRACK DAYS & COMPETING IN

circuit racing, sprints and hillclimbs, as well as noncompetitive track days. choose to use their cars in competition events, such as Sevens tull performance on the public roads, many owners Due to the difficulty – and illegality – of using the Caterham

popular and Caterham now run two grids of 25 new hillclimbs to circuit races. This Series has proved to be very the Academy series in 1995, using 25 identical Live Axle developed. known as the Graduate or Super Graduate have been drivers to further their racing careers two championships Roadsport type cars each year. To enable ex-Academy cars; the series covers a range of events, from sprints and As an introduction to motorsport Caterham Cars introduced

close and cost-effective racing by virtue of the strict Challenges. Both of these have been designed to promote conjunction with the British Racing and Sports Car Club Caterham cars run two circuit racing championships in regulations and the use of sealed engines. (BRSCC), the Caterham Roadsport and Caterham R400

The Roadsport championship is for road going 1.6

make race cars in Europe, running on slick tyres with 200 experienced competitor and are amongst the tastest oneexperienced drivers alike looking for competitive racing Roadsport cars and is an ideal series for both amateur and bhp and weighing only 505kg.
The 750 Motor Club also run several championships and The Caterham R400 challenge cars are aimed at the more

race events for which the Caterham Seven is eligible and highly competitive.

sprint events, from club to national level. These events are Caterham Sevens are also highly popular for hillclimb and time divided into a range of classes. run solely against the clock, with one car on the course at a

completed and you will need to pass a medical examination in order to compete, a competition licence must be held. To forms of motor sport in the U.K including all the above, and Caterham Cars. with a doctor. Full details can be obtained from the MSA or however a one-day ARDS driving course must be only need to pay the relevant tee. For a race licence hold a 'speed' licence for hillclimb and sprint events you The Motor Sports Association (MSA) is responsible for all

clothing is required along with full safety equipment. Check crash helmet, to a Caterham race where full fireproof Contact the organising body for details of these events. club, be it an owners club or a track driving club such as levels ot events, trom track days where you simply need a Safety equipment requirements vary greatly between the Caterham Motorsport Club without involving the MSA. Track driving days are generally organised by the relevant

### SAFETY EQUIPMENT

required

with the MSA and the event organisers as to exactly what is

For any form of track use we would recommend a minimum of the following safety equipment. All available from the Caterham Parts Department:

- Full harness safety belts (6 point not 4 point)
- F.I.A. roll over bar with head restraint
- Ignition cut out switch
- Honeycomb tuel tank or bag tank tandheld or plumbed in fire extinguisher
- Honeycomb floor impact protection panels
- Rear wheel protection bar
- Bespoke seat Arm restraints

# Essential Check Items for cars being used on the

- Wheel nuts must be torqued to the correct setting (see Technical Data) and checked after every session
- Caterham Technical Department (For information on other tyre types please contact the Tyre pressures - CR500 16psi cold/c. 20-22psi hot
- Oil and coolant. These should be filled to maximum marks and checked after every session
- General Nut & Bolt check
- Check brake pad wear and fluid level
- Remove all loose objects from boot area

## Additional track day information

around this environment it is vital that careful monitoring of vehicle and even though your Caterham has been designed the gauges is carried out whilst driving under these harsh Track usage is among the toughest environments for any

> risk of engine damage: The following recommendations are designed to reduce the

### Water Temperature

engine is 70°C to 80°C Always allow the engine to warm up before using high The optimum operating water temperature for your rpm or full throttle. Minimum water temperature 65°C.

### Oil Temperature

A maximum oil temperature of 100°C is recomthen fitment of an oil cooler is recommended mended. If track usage causes this figure to be exceeded until the engine oil temperature is at least 50°C. Once again high rpm or full throttle should not be used

on the track regularly we recommend fitment of one to standard on all cars should you intend to use your car enable accurate monitoring of the engine. Although an oil temperature gauge is not fitted as

#### Oil changes

cars used on the track The engine oil should be changed more frequently with

Caterham Motorsport oil is strongly recommended More trequent changes can only be beneficial. We recommend every 1000 track miles as a minimum

## For Enhanced Track Performance

safety whilst on the track. following as this will improve both your enjoyment and You may wish to upgrade your car to include some of the

- Kace dampers Large brake master cylinder
- Uprated front or rear springs
- Uprated anti roll bars (front and rear)
- Race Rack (22%) wide track only. Not for road use
- High ratio clutch and brake pedal
- Iriple pass radiator
- Clutch and throttle pedal stops
- information contact Caterham Technical Department). suspension upgrade depending on circuit, for further slick/wets. (This may require a differential change and 13" wheels fitted with Avon CR500 road tyres or Avon

## MAINTENANCE

could increase your enjoyment of the car. Servicing is In addition to regular servicing, there are a number of simple, routine checks that you must perform such as also available at a number of approved Caterham able to advise you on any modification or upgrade that the high standards you expect from your Seven and will be Midlands. Caterham will know what is required to maintain Caterham Altersales at the Dartford tactory or Caterham For servicing, we recommend that the car is returned to and when to perform these checks are detailed in this section. checking the fluid levels and tyre pressures. Details of how

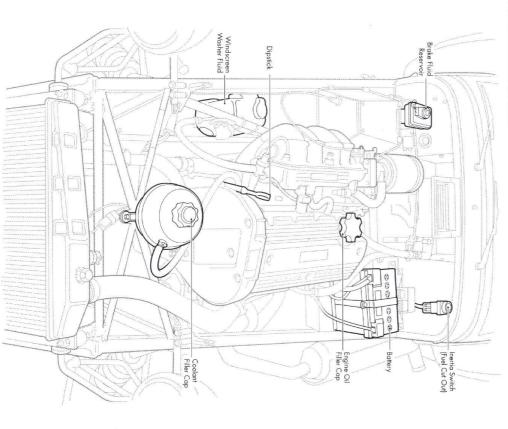
service agents around the UK.

back of this owners handbook and keeping this up to date A record of service work and upgrades will be kept at the helps to ensure the maximum resale value of your vehicle.

## Owner Maintenance

given on the pages that follow. more frequently. You can do these yourself and advice is in this book the following simple checks must be carried out In addition to the routine services and inspections described

## Figure 9: underbonnet location



#### Daily checks:

- washers and warning lights. Operation of lights, horn, direction indicators, wipers,
- Operation of seat belts and brakes.
- Look for fluid deposits on the floor beneath the car, which may indicate a fluid leak.

#### Weekly checks:

- Engine oil level
- Cooling system level
- Condition and pressure of tyres
- Brake fluid levels
- Screen washer reservoir level

without delay. uneven tyre wear, should be reported to Caterham Cars NOTE: Any significant or sudden drop in fluid levels, or

### **Emission control**

could be unlawful and subject to legal penalties. with this equipment by an owner or motor vehicle repairer that unauthorised replacement, modification or tampering to meet specific legal requirements. You should be aware Your car is fitted with emission control equipment, designed

In addition, engine settings must not be tampered with Incorrect engine settings may adversely attect exhaust complies with stringent exhaust emission regulations. These have been established to ensure that your car

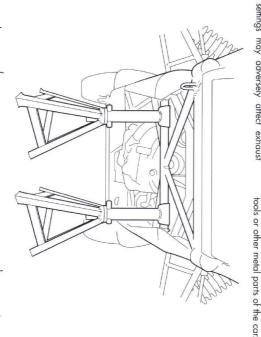
> damage to the catalytic converter and the car. well as causing high temperatures, which could result in emissions, engine performance and fuel consumption, as

## Safety in the garage

If you need to carry out maintenance on your precautions at all times: observe the following

- ALWAYS keep hands, tools and items of clothing, clear
- DO NOT touch exhaust or cooling system components of all drive belts and pulleys (see 'Warning' below) until they are cool
- DO NOT touch electrical leads or components with the ignition switch turned on.
- NEVER leave the engine running in an unventilated area – exhaust gases are poisonous and extremely
- vehicle lifting jack as the only means of DO NOT work beneath the car with a support. (See axle stand positioning)
- Ensure sparks and naked lights are kept away from the engine compartment.
- the battery terminals, or leads, to make contact with working in the engine compartment and NEVER allow Remove all metal wrist bands and jewellery, before Take care to avoid contact with a hot exhaust system,

#### Positioning Figure 10: **Axle Stand**



### Poisonous liquids

Obey all instructions printed on labels and containers! brake fluid, petrol, oil and windscreen washer additives). wounds (these substances include; battery acid, anti-treeze should not be consumed, or brought into contact with open Most liquids used in motor vehicles are poisonous and

### Used engine oil

Wash thoroughly after contact. disorders, including dermatitis and cancer of the skin Prolonged contact with engine oil may cause serious skir

## PROTECT THE ENVIRONMENT

authorised waste disposal sites and garages, which used oil and toxic chemicals. If in doubt contact your provide facilities for the receipt of discarded batteries, It is illegal to pollute drains, water courses or soil. Use Local Authority for advice.

#### WARNING

Keep clear of compartment. Cooling fans may operate after the engine is switched off. Keep clear of all fans while working in the engine

#### **WARNING!**

precautions listed under 'Safety in the garage engine compartment, Betore carrying out maintenance checks or working in the ALWAYS observe the safety

## Checking fluid levels

revving engines and extreme cornering speeds it is vitally important that the correct engine oil level is maintained at Due to the nature of the Caterham Seven with its high

# Engine oil level cannot be checked too often.

and before any long journey or before every section at a track day. We recommend that it be checked at least every 500 miles

procedure for the system titted to your car. level. It is important that you are clear on the correct which each requires a different means for checking the There are several different oil systems fitted to the Seven of

- Standard wet sump arrangements & engines fitted with oil/air separator tank
- Engines with Dry sump Bell Tank and Swirl Tower

# Engines with Standard Wet Sump Arrangement & Engines Fitted with Oil/Air Separator

- Start the engine and run it until the normal operating temperature is achieved (80-90°C).
- With the engine still running remove the dipstick from ensure that the correct indication is achieved its tube and wipe clean before re-dipping, this will

親

- a guide the difference between min and max is approximately 1/2 litre). The oil should be at the maximum level at all times. (As
- If oil is required you must first switch off the engine.

- Oil should be added via of oil for your engine type. of the engine and must be of the correct specification the oil filler cap on the top (See technical data).
- It is advisable to add a to overfill the engine with Care should be taken not correct level is achieved above procedures until the recheck by repeating small amount at a time and
- restarting the engine. cap and dipstick before Always replace the oil filler

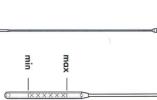


Figure 12

# Engines with Dry Sump Bell Tank and Swirl

Start the engine and run it until the normal operating (80-90°C) temperature is achieved

P

- that the correct indication is dipping, this will ensure and wipe clean before rethe top of the swirl tower Unscrew the dipstick from Switch off the engine. the dipstick fully home achieved. Be sure to screw when re-dipping.
- It oil is required it should approximately 1/2 litre). between min and max is The oil should be at the (As a guide the difference maximum level at all times.

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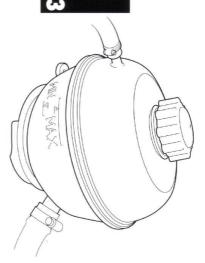
- It is advisable to add a small amount at a time and recheck by repeating above procedures until the cap on the top of the engine and must be of the correct be added via the oil filler specification for your engine type. (See technical data) Figure 13
- Overfilling this system will result in oil being blown out into the oil catch tank the next time the vehicle driven. Care should be taken not to overfill the engine with oil

correct level is achieved.

restarting the engine Always replace the oil filler cap and dipstick before

minute before repeating the checking procedure. oil will start to drain back into the engine and a false the engine again and let it run tor approximately one reading will be obtained. Should this be the case restart one minute of the engine being switched off otherwise the NB. With this system the oil level must be checked within

#### expansion bottle Figure 14: Coolant



ensure that its anti-corrosion properties are retained, the any reason a minimum of 50% antifreeze is required. To Aftersales once a year. anti-freeze content should be checked by Caterham mixed), however, it a water/antitreeze mix is substituted for the year round. Caterham use Comma Xstream Red (ready The anti-treeze content of the coolant must be maintained all

The coolant should be completely renewed every tour years

#### WARNING

- DO NOT use anti-treeze to any specification other than that recommended (see technical data).
- DO NOT add rust inhibitors or other additives to the coolant – these may not be compatible with the coolant or engine components.
- DO NOT remove the reservoir cap when the cooling serious injury. system is hot - escaping steam or water could cause
- contact with the skin or eyes. If this should happen, Take precautions to prevent anti-treeze coming in seek appropriate medical attention immediately. It accidental consumption of anti-freeze is suspected Anti-freeze is poisonous and can be fatal if swallowed
- Anti-freeze is inflammable. Take care not to spill antirinse immediately with plenty of water.
- treeze onto a hot engine a tire may result
- panels anti-freeze will damage painted surtaces. When topping up, avoid spillage onto painted body

## Brake fluid check & top-up

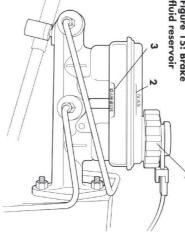
Fluid level in the brake reservoir may fall slightly during normal use, but should not drop below the 'DANGER' mark. If there is any appreciable drop in level over a short period, consult Caterham Aftersales.

- 1. Reservoir filler cap
- Unscrew the cap and lift to remove
- 2. 'MAX' maximum level
- 'DANGER' minimum level

#### Topping-up

from entering the reservoir, then top-up the reservoir to the Wipe the filler cap clean before removing, to prevent dirt 'MAX' mark using a recommended fluid: (See technical data)

Figure 15: Brake



performance). system will absorb moisture, and adversely affect braking uncapped containers or fluid previously bled from Use only new fluid from a sealed container (old fluid from

screw up cap by hand only. To refit the cap, replace slowly to prevent leakage and

#### WARNING!

- DO NOT drive the car if the fluid level is below the 'DANGER' mark
- Brake fluid will damage painted surtaces: Soak up any the area with a mixture of car shampoo and water. spillage with an absorbent cloth immediately and wash
- eyes, rinse immediately with plenty of water. If brake fluid should come into contact with the skin or
- Brake fluid is inflammable do not allow fluid to come years regardless of mileage. Brake fluid must be completely replaced every two

into contact with hot components or naked flames.

with a mixture of water and Comma screenwash. Check the reservoir level at least every week and top-up Windscreen washers Wipers & Washers

### **WARNING!**

concentrations are exposed to sparks. Screenwash is inflammable, particularly if high or undiluted sources of ignition. screenwash to come into contact with naked flames or Do not allow

affected area immediately with water. screenwash is being used. If spillage occurs, wash the particularly if an undiluted or high concentration of Body panels may suffer discolouration as a result of screenwash spillage. Take care to avoid spillage,

#### **WARNING!**

pump. screen washer reservoir – anti-freeze will damage painted surfaces, while vinegar can damage the windscreen washer Do not use an anti-freeze or vinegar/water solution in the

#### Washer jets

Once set the water jets should not require further as a probe to clear the obstruction. adjustment. If a jet becomes blocked, use a thin wire or pin

#### Wiper blades

cracking in the rubber are found, or if the wipers leave then the wiper blades should be replaced. streaks or unwiped areas on the windscreen during use, periodically check their condition. If signs of hardness or Wash the wiper blades in warm soapy water and

replacement wiper blades. and ensure the screen is thoroughly cleaned before titting Clean the windscreen regularly with Comma glass cleaner

#### Battery

### Battery maintenance

The battery is designed to be maintenance free, so topping-up is unnecessary. The battery will lose charge if your long periods" later in this section. rehicle is laid up unused. See "Laying your vehicle up tor

poisonous. It spillage occurs: Batteries contain acid, which is both corrosive and

- clothing immediately, flush the skin with large amounts On clothing or the skin - remove any contaminated of water, and seek medical attention urgently.
- least 15 minutes. Seek medical attention urgently. In the eyes – tlush with clean water immediately for at
- During normal operation batteries emit explosive action is taken - seek medical attention urgently. Swallowing battery acid can be fatal unless IMMEDIATE hydrogen gas – ensure sparks and naked lights are
- For your safety remove all metal wrist bands and jewellery betore working in the engine compartment kept away trom the engine compartment.

WARNING! to make contact with tools or metal parts of the vehicle. and NEVER allow the battery terminals or vehicle leads

DO NOT reverse the polarity of the battery - the battery leads are connected to the wrong terminals. electrical system will sustain extensive damage if the

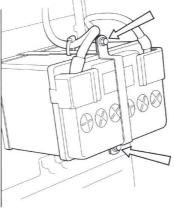
## Battery removal and replacement

of the vehicle. allow the battery terminals to make contact with metal parts switch of all electrical equipment and remove the ignition key positive cable first and then the negative cable. Do not the positive ('+') cable. When reconnecting, connect the To remove: disconnect the negative ('-') cable first and then Before disconnecting the battery, disarm the immobiliser,

securing the battery clamp and remove the clamp. To release the battery from the car, undo the two bolts

until the clamp is free from movement, but do not overtighten. round and that the clamp is secure. Tighten the clamp bolts When replacing, ensure the battery is titted the right way

## Figure 16: Battery and battery clamp



### Replacement battery

a fire hazard when connected to the car's electrical system size or have different terminal positions which could cause specification as the original – other batteries may vary in Only fit a replacement battery of the same type and

### Battery disposal

Caterham dealer or your local authority. hazardous – you should seek advice about disposal from a Used batteries should be recycled. However, batteries are

#### WARNING

- Keep the battery upright at all times damage will be caused it the battery is tilted more than 45 degrees.
- DO NOT run the engine with the battery disconnected or disconnect the battery while the engine is running.

### **Battery charging**

precautions: serious injury. While charging always heed the following and produce levels of electric current sufficient to cause Batteries generate explosive gases, contain corrosive acid

- clamped to the battery terminals BEFORE switching on charger is switched on. the battery charger. Do not move the leads once the Make sure the battery charger leads are securely connected may damage the vehicle's electrical system. from the vehicle – charging the battery with the cables
- the battery well ventilated. over the battery and keep the area around the top of While charging, shield your eyes or avoid leaning
- charging). Do not allow naked lights near the battery (batteries generate inflammable hydrogen during and after
- When charging is finished, switch off the battery charger BEFORE disconnecting the leads from the battery terminals.
- reconnection to the vehicle this will allow time for After charging, leave the battery for an hour BEFORE risk of fire or explosion. explosives gases to disperse, thereby minimising the

a cold environment. NOTE: Be aware that a battery will take longer to charge in

#### WARNING!

(4)

- DO NOT charge the battery if it is connected to the car this may seriously damage the electrical system.
- DO NOT charge the battery if it is suspected of being

### Wheels & Tyres

#### **WARNING!**

## **DEFECTIVE TYRES ARE DANGEROUS!**

are identical to the original specification. DO NOT drive your car if any tyre is excessively worn or characteristics of your car – only fit replacement tyres that Incorrect tyres can affect the stability and handling damaged, or is inflated to an incorrect pressure.

### Caring for your tyres

any sign of distortion (bulges), cuts or wear. tyres, and frequently inspect the tread and side walls for Always drive with consideration for the condition of the

The most common causes of tyre tailure are:

- Bumping against kerbs
- Driving over deep pot holes
- Driving with under or over-inflated tyres

road holding. combination of tread life, ride comfort, fuel economy and Correctly inflated tyres will ensure that you enjoy the best

the car can be driven up to one mile (1.6 km), before the Check the pressures at least every week (including the spare tyres start to warm up) wheel), preterably when the tyres are cold (be aware that

car has been driven for a while, even in cold weather), you necessary to check the tyres when they are warm (after the Air pressure naturally increases in warm tyres; if it is should expect the pressures to have increased by between

> section of this book the tyres in order to match the recommended pressures. 4 and 6 lbf/in2. In this circumstance, DO NOT let air out of The recommended pressures are shown in 'Technical Data'

affect the car's handling characteristics. unevenly, are more easily damaged, and can seriously Remember; incorrectly inflated tyres may wear rapidly or

### Tyre wear indicators

producing the effect of a continuous band of rubber across The tyres on your car, have wear indicators moulded into the tread pattern, at several points around the the width of the tyre. the indicators will come to the surface of the tread pattern, circumterence. When the tread has worn down to 1.6 mm,

wet roads tread remaining to provide good traction, particularly on The indicators provide warning that there is insufficient

that we recommend tyres are changed at 2.5mm even though the legal minimum is 1.6mm. prone to aqua planing in wet conditions. It is for this reason **NOTE:** Due to the minimal weight of the Caterham it is more

be checked. becomes abnormally excessive, the wheel alignment should If tyre wear is uneven (on one side of the tyre only), or

#### Valve caps

from entering the valve. Keep the valve caps screwed down firmly. They prevent dirt

#### Punctured tyres

caution until the spare wheel can be fitted. Remember, occurring, reduce speed immediately and drive with or replaced, AS SOON AS POSSIBLE! punctured or damaged tyres must be permanently repaired provided it remains in the tyre. It you are aware of this pressure very slowly it penetrated by a sharp object, Your car is fitted with tubeless tyres, which will normally lose

the original specification shown in Technical Data' section To be safe, ONLY fit replacement tyres that are identical to characteristics of the car. Changing the specification of a Wheel rim and tyres are matched to suit the handling ultimately, your own satety in emergency road situations. wheel or a tyre, can adversely affect the car's handling and

## Tools required Changing a Wheel and Tyre assembly

- Jack & handle
- Wheel nut spanner

ground. Always apply the handbrake and put into 1st gear Before you start ensure that the vehicle is on firm level

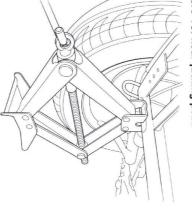
### Positioning the jack

centre of the jack platform fits snugly up to the jacking Turning the jack screw by hand, raise the jack until the point. Do not raise the car Position the jack under the jacking point (see illustration).

Figure 17: Front jacking point



Figure 18: Rear jacking point



### assembly Removing and refitting the Wheel and Tyre

the wheel nuts ½ a turn anti-clockwise. Before raising the vehicle, use the wheel brace to slacken

Attach the jack handle to the jack and turn clockwise until jacking tront of vehicle on lower wishbone. Ensure jack is placed as tar inboard as possible when

the tyre is just clear of the ground. (Do not allow the jack to

scratching to the surface of the wheel) wheel face down on the ground as this Remove all the wheel nuts and the wheel. (Do not place the may cause

against the hub. wheel) and tighten the nuts until the wheel is seated tirmly Replace the wheel and wheel nuts (tapered end towards the

wheel nuts in a diagonal sequence. remove the jack trom under the car. Finally fully tighten the Lower the car by turning the jack handle anti-clockwise then

#### WARNING

- Always check the tyre pressures before driving off or as soon afterwards as possible.
- Whenever refitting the wheel nuts it is imperative that nut torque as soon as possible. they are tightened to the correct torque. Check wheel

#### WARNING

Always observe the following precautions!

- Choose a safe place to stop, away from the main the car and waits in a safe area, away from other thoroughtare, and ensure your passenger gets out of
- Switch on the hazard warning lights to alert other road users. Apply the handbrake and engage 1st gear.
- covers, or use additional material between the base of Ensure the jack is positioned on firm, level ground. Do the jack and the ground. not position the jack on metal gratings or manhole
- of the wheel diagonally opposite the one to It jacking on a slope, place chocks at the front and rear removed.
- any underbody parts, especially the hot exhaust system Care must be taken to avoid accidental contact with components, likely to cause personal injury during the raising or lowering of the car.

means of support. The jack is designed for wheel changing NEVER work beneath the car with the jack as the only NEVER jack the car with passengers inside!

## Cleaning and car care

### Washing your car

#### WARNING!

washing the car. Take care to avoid contact with a hot exhaust system when

Road dirt, oil, and deposits from birds and trees, can trequently, using a clean, grit tree sponge and generous shampoo. Rinse and dry off with a chamois leather. quantities of cold or lukewarm water, containing a car permanently spoil the paint finish. Wash your car

- In hot weather, DO NOT wash the car in direct sunlight move the car into the shade!
- DO NOT use hot water!
- DO NOT use detergent soap products or washing up

During winter months when salt has been used on the accumulations of mud. attention to wheelarches, panel seams and to removing roads, use a hose to wash the underside. Pay particular

components intake ducts, or through the wheels onto the brake When using a hose, do not direct the jet into the heater air

jet directly at components that might easily be damaged seals or damage tragile components. Never aim the water forecourts, are sufficiently powerful to penetrate window Some high pressure cleaning systems available on garage

#### Body protection

first, then apply the base coat and finish off with a lacquer pencil, if appropriate. Carry out this treatment after paint chips and scratches with touch-up paint. If the After washing, inspect the paintwork for damage. Treat washing, but before polishing or waxing. damage has revealed bare metal, use a coloured primer

cleaning compounds, are not applied to the window glass However, take care to ensure that car polish and body

4

recommendations. be repaired in accordance with the manufacturer's More extensive damage to paint or bodywork should

## Windscreen and mirrors

approved glass cleaner. Regularly clean the windscreen, inside and out, using an

replacement wiper blades Windscreen: Always clean the windscreen before fitting

### Hood/Side screen

an abrasive cleaner on these windows. plastic and should be cleaned with soapy water. Never use The windows in the hood and sidescreen are made of

use abrasive cleaning compounds or metal scrapers. Mirror glass is particularly susceptible to damage; DO NOT

(NEVER use a spirit or petrol based solvent) Regularly wash the wiper blades with warm soapy water

## Looking after the interior

upholstery cleaner. Vinyl/plastic/cloth-faced materials: Clean with diluted

polishes! DO NOT use petrol, detergents, turniture creams or Dry and polish the leather with a clean, dry, lint-tree cloth be cleaned with warm water and a non-detergent soap. Leather: Seats, steering wheel and any trim features, should

and clean with diluted upholstery cleaner. Carpets: Sweep regularly with a brush or vacuum cleaner

#### Seat belts

retract them, or use the car, until they are completely dry. Finally, allow the belts to air-dry naturally and do not cleaning solvents - these can weaken the belt webbing. soap to clean. On no account use bleaches, dyes or Extend the belts, then use warm water and a non-detergent

### periods Laying your vehicle up for long

precautionary measures be taken to avoid unnecessary weeks at a time then we recommend the following Should your Caterham be laid up unused for more than 6

- Ensure the bodywork and trim are properly cleaned and protected to prevent corrosion
- 2 Erect and correctly tension weather equipment to prevent storage damage.
- ω. Raise car off the ground and place on axle stands taking the weight of the car off of the tyres.
- cooling system. Check Antifreeze content as this will not only protect includes additives to prevent corrosion inside the your engine trom the cold but most antitreeze also
- It is of the uppermost importance that the battery of the battery may not be successful if the battery is charge level is maintained during storage. Recharging We recommend that a battery conditioner is fitted to allowed to discharge below a certain level.

the vehicle whilst in storage as this unit will maintain a battery should be disconnected and charged Should this option not be available to you then the minimum charge at all times. Available from Caterham Parts department (part no. 71537).

Ensure that the handbrake is off and that all the wheels turn freely as this will help to prevent the brake pads replacement.

periodically. See section on battery removal and

# from sticking to the discs in cold and damp conditions

## After long periods of storage

Before reusing your vehicle after storage the following checks should be carried out.

- lyre pressures and condition
- Check all fluid levels

full safety check is available from the Caterham Aftersales oil filter are changed and the braking system is checked. A months then we strongly recommend that the engine oil and NB Should your vehicle have been laid up in excess of 6

### Travelling abroad

legal requirements of their home country. the car while travelling abroad, will also conform to the Owners should ensure that any parts or accessories fitted to been made to the vehicle manufacturer's specification. In certain countries, it is illegal to fit parts which have not

organisation for the latest requirements. whilst travelling abroad. Please consult your motoring There are certain items your are required to carry with you

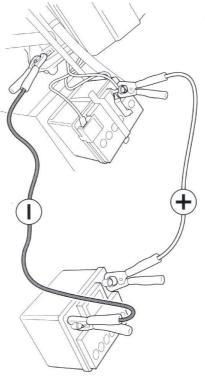
# IN AN EMERGENCY

## **Emergency Starting**

#### WARNING

- During normal use, batteries emit explosive hydrogen gas, sufficient to cause severe explosions capable of compartment. naked lights are kept well away from the engine causing serious personal injury - ensure sparks and
- Make sure BOTH batteries are of the same voltage DO NOT disconnect the discharged battery. (12 volts), and that the jump leads are approved for
- when using jump leads To avoid injury, always adopt the following procedure use with 12 volt car batteries.

Figure 19: Jump lead connection, 16 valve models



a car with a tlat battery. Push or tow starting is NOT to a donor vehicle, is the only approved method of starting Using jump leads from a donor battery, or a battery fitted

- If a donor vehicle is to be used, the vehicles should be another. Ensure that the two vehicles do not touch. parked with their battery locations adjacent to one
- $\omega$ 2 Apply the handbrakes and ensure that the gear levers on both vehicles are in neutral Turn off the ignition switch and ALL electrical
- 4 Connect the RED jump lead between the positive (+) equipment of BOTH vehicles.
- Connect the BLACK jump lead from the negative (-) terminals of BOTH batteries.
- 5) surface), remote from the battery and well away from engine mounting, engine block or other unpainted terminal of he donor battery, to a good earth point (eg. fuel and brake lines (see illustrations).

### DO NOT connect a jump lead to the negative (-) terminal of the discharged battery!

Check that the cables are clear of the moving parts of both engines, then start the engine of the donor vehicle

- and allow it to idle for a few minutes
- Y battery - DO NOT crank the engine for more than 15 Now start the engine of the car with the discharged seconds at a time.
- 8 DO NOT switch on any electrical circuits on the of the donor vehicle and disconnecting the jump leads. to idle for two minutes, before switching off the engine Once both engines are running normally, allow them previously disabled vehicle, until AFTER the jump leads have been removed.
- 9 disconnect the BLACK cable from the earth point on the reversal of the procedure used to connect them, disabled vehicle FIRST. Disconnecting the jump leads, must be an EXACT ē

## **Emergency towing**

should a breakdown or accident occur. ONLY by the emergency services, or qualified vehicle Both the front and rear lashing eyes are intended for use recovery specialists, to assist in the recovery of your car

- DO NOT use the lashing eyes to tow your car behind another vehicle.
- DO NOT using the lashing eyes for towing another

### Towing for recovery

is necessary for the car to be towed with all four wheels on the ground, tollow this procedure. If your car is to be towed, most qualified recovery specialists while the rear wheels remain on the ground. However, it it will use wheel lift equipment to suspend the tront wheels,

### Before being towed:

- and then to position 'II' to enable the brake lights, wipers and direction indicators to be operated it necessary. 1) Turn the ignition key to position 'I' to unlock the steering,
- Place the gear lever in neutral.
   Release the handbrake.

#### WARNING

- DO NOT attempt to tow the car unless the ignition considered unsafe, disconnect the battery before steering (if, due to an accident or electrical fault, this is switch is turned to position "I", in order to unlock the turning the switch).
- DO NOT remove the ignition key, or turn the switch to position 'O', while the car is in motion.

### Fuses and Relays

the order that they will be found in the fuse box working from the top down. tuses and relays are not numbered the tables below are in tace of the engine bulkhead (see figure 21). Although the The fuse box is located under the dashboard on the vertical

#### Fuses

Electric Fuel Pump ECU (Fuel injection cars only)	Wiper motor & wash pump Horn Direction Indicator lights	L/H side/tail light Headlights Main beam Headlights Dipped beam	Heated element for front windscreen Rear fog light R/H side/tail light & instrument illumination	Brake light & Reversing light Instrumentation power supply and Heater fan Radiator cooling fan
15 Amp 30 Amp	15 Amp 20 Amp 10 Amp	5 Amp 15 Amp 15 Amp	10 Amp 5 Amp 7.5 Amp	15 Amp 10 Amp 15 Amp

break in the wire inside the fuse. fuse by removing it from the fuse box and looking for a equipment it protects becomes inoperative. Check a suspect overloaded. A 'blown' fuse is indicated when the electrical equipment by preventing the electrical circuits from being Fuses are simple circuit breakers, which protect electrical

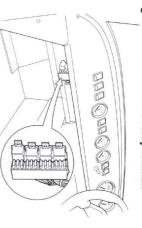
#### Relays

Not used	Flasher	Hazard	Headlights	Horn	Classic/Roadsport
5 Ignition	4 Flasher	3 Hazard	2 Headlights	1 Hom	Superlight
5	4	۵	2	-	

### Renewing a fuse

by Caterham Cars. Always turn off the ignition switch and the appropriate serious electrical problem and the circuit MUST be checked replacement tuse blows almost immediately, this indicates a fuse with another of the same (or lower) rating. If a electrical circuit before removing a fuse. Always replace a

Figure 21: Fuse box and relay location



#### **Fuse colours**

The fuses are colour coded to identify their amperage ratings as follows:

GREEN	YELLOW	BLUE	RED	BROWN	ORANGE
30 amp	20 amp	15 amp	10 amp	7.5 amp	5 amp

## Parts & Accessories

## Service parts & accessories

performance. meet our rigorous standards of safety, durability and the tull range of recommended parts and accessories, that Only Caterham Cars and their dealers are able to provide

will help to guarantee continued reliability, satety and part of the car's design and development programme and wide range of genuine Caterham products is an integral only components approved by Caterham to meet rigorous performance. versatile range of quality accessories are available. This original equipment standards for fitment and performance your car. Genuine Caterham parts and accessories are the recommend that only Caterham approved parts are fitted to To ensure your future driving please and safety, we strongly lo enhance your motoring pleasure, a comprehensive and

resale value of your car. Fitment of non-Caterham approved parts could effect the purchase from Caterham Parts department. A comprehensive parts list with descriptions is available for guaranteed for twelve months with unlimited mileage. All genuine Caterham parts and accessories are

#### WARNING!

It is extremely hazardous to fit parts or accessories addition to, either the electrical or fuel systems where installation requires the dismantling of, or

> Fitting parts or accessories that have not been occupants, and also invalidate the terms and approved alterations or conversions, may be dangerous and could affect the safety of the car and approved by Caterham, or the carrying out of nonconditions of the car's warranty.

## **Bulb Replacement**

### 1. Headlamps

The wiring is released from the back of the lamp unit by pulling off the plastic connection. Halogen bulbs can be it to blow on first use. taken not to touch the Halogen bulb glass as this will cause the retaining clip to release the bulb itself, care should be changed by removing the rubber dust cover then squeezing with the light attached can be unclipped and pulled free Loosen the screw on top of the headlamp bowl until the rim

## 2. Side/parking lamp (front)

and can be removed by pulling it straight out of its holder. enable bulb changing. The side lamp bulb is a capless bulb separately into the back of the headlamp and pull free to First release headlamps as above. Sidelamps are connected

### Indicators (front)

retitted by pressing and turning through 45° in place. The bulb can then be removed and the new one Remove the two Phillips head screws holding the amber lens

## Indicator repeaters (front)

pressing and turning through 45° bulb can then be removed and the new one refitted by Remove the single screw holding the lens and unclip. The

## 5. Stop/tail and inddicators (rear)

pressing and turning through 45° bulbs can then be removeed and the new ones refitted by complete amber/red lenss to be removed for access. The The lenses are held in plaace by two screws which allow the

## Rear fog lights, rreversing lights

seal is fitted correctly to prrevent water ingress. The lenses are held in plaace by two screws which allow the lens to be removed for access. The bulbs can then be through 45°. When refittining the lens ensure that the rubber removed and the new onees refitted by pressing and turning

## Number plate larmp

of the cover. removed, this is held in plcace by a single screw in the centre removed and refitted by depressing and turning through 45°. To gain access to the bulbs the black cover must be The number plate lamp ccontains two bulbs which can be

Rear Number Plate (x2)	Reversing	Side Repeater indicator	Rear Fog	Tail/Stop	Front/Rear Indicator	Sidelamp	Headlamp (halogen)	Light Unit	
4	21	4	21	21/5	21	()	60/55	Wattage	
шв233	ШВ382	ШВ233	ШВЗ82	ПВ380	ШВ382	LLB501	BB472	Part Number	Caterham

## SERVICE SCHEDULES

O Check and adjust or replace as required	Cam belts Replace every 48,000 miles, or sooner if preferred	Fuel lines	Spark prugs Fuel filter	Coil lead	Distributor cap	Rotor arm	Wheel alignment	Engine mountings	Steering joints and gaitors	Seatbelt security and operation	Gearbox oil level	Exhaust security	Different oil level	CV gaitors	Brake pipes and unions	Brake pads and discs	Battery connections and conditions	Sump foam baffle	Brake hoses	Air filter - clean or change	Wheel bearing endfloat	Suspension bushes	Suspension security	Headlight alignment	Handbrake operation	Clutch action & cable adjustment	Washers operation/alignment	Wiper condition and operation	Wheel nut torques	Tyre conditions and pressures	Horn	Switchgear	Screen Wash Fluid level	Lights and bulbs	A frame bush	Coolant hose condition and security	Alternator drive belt	Coolant	Brake fluid	Engine oil filter	Engine oil	Service Interval – Miles Applicable to all models	9/10/10/10/10/10/10/10/10/10/10/10/10/10/
Replace	r sooner if pr						0				0		0		0		0		0				0	0	0	0	0	0	0	0	0	0		0		0	0	0	0	•	•	First 500	
	eferred.		C	)					0	0		0	0	0		0	0		0		-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	•	•	Every 6000	NO CONTRACTOR STANDARD STANDAR
			•	•			0	0	0	0	0	0	0	0	0	0	0	0	•	•	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	•	•	Every 12000	
		0	• (	•	•	•	0	0	0	0	0	0	0	0	0	0	0	0	•	•	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.0	0	0	•	•	•	•	Every 24000	(CONTRACTOR CONTRACTOR

## SERVICE RECORD continued

SIGNATURE	TYPE	MILEAGE	DAIL
Ш			

We certify that this Service has been completed in accordance with the manufacturer's schedule applicable to your vehicle.

DEALER STAMP

DATE MILEAGE

TYPE

SIGNATURE

We certify that this Service has been completed in accordance with the manufacturer's schedule applicable to your vehicle.

5

DEALER STAMP

Superlight R500 models have special servicing requirements. Please contact Aftersales for further information

TYPE DATE MILEAGE SIGNATURE

We certify that this Service has been completed in accordance with the manufacturer's schedule applicable to your vehicle.

DEALER STAMP

DATE

MILEAGE

SIGNATURE

TYPE

We certify that this Service has been completed in accordance with the manufacturer's schedule applicable to your vehicle.

DEALER STAMP

## **SERVICE RECORD** continued

DATE TYPE MILEAGE

SIGNATURE

We certify that this Service has been completed in accordance with the manufacturer's schedule applicable to your vehicle.

DEALER STAMP



DATE

MILEAGE

TYPE

SIGNATURE

We certify that this Service has been completed in accordance with the manufacturer's schedule applicable to your vehicle.

DEALER STAMP



MILEAGE

SIGNATURE

TYPE

We certify that this Service has been completed in accordance with the manufacturer's schedule applicable to your vehicle.

DEALER STAMP



DATE

MILEAGE

TYPE

SIGNATURE

We certify that this Service has been completed in accordance with the manufacturer's schedule applicable to your vehicle.

DEALER STAMP

## CAMBELT REPLACEMENT

DATE

MILEAGE

DEALER STAMP



SIGNATURE

DATE

MILEAGE

DEALER STAMP

SIGNATURE

## FACTORY UPGRADE RECORD

DATE

MILEAGE

MODIFICATIONS/UPGRADE

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MODIFICATIONS/UPGRADE

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## FACTORY UPGRADE RECORD

DATE

MILEAGE

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MODIFICATIONS/UPGRADE

UPGRADE .

### WARRANTY

The Caterham Warranty provides complete assurance that should your vehicle require attention as a result of a manufacturing defect during the warranty period, it will be attended to with minimal inconvenience to you within the terms of the warranty agreement. The warranty agreement is supplied in your delivery pack and copies are available fro the Caterham Aftersales Department.

Should your vehicle ever require attention, contact The Caterham Aftersales Department or alternately a Caterham Service Centre (a list of which can be obtained from Caterham Cars Ltd).

### 1st Year Warranty

Commences the day the vehicle is first delivered to the initial owner and is applicable for 12 months or 12,000 miles, whichever is the sooner.

Guarantees repair or replacement free of charge, by Caterham Factory, Caterham Midlands or an authorised Service Agent, of any part which fails during the warranty period, as a result of a manufacturing defect, including 'wear and tear' items (not tyres) that fail prior to their normal service replacement date (not including labour).

SIGNATURE

Guarantees any parts replaced under the terms of the warranty for the balance of the warranty period.

Note: In the event that a problem occurs with your vehicle in the period following expiry of the warranty, you may wish to consult the Caterham Aftersales Department direct, so that full consideration can be given to the problem.

If the vehicle is used for competition or any track based activity, the warranty becomes invalid.

## CHANGE OF OWNERSHIP

It is important that Caterham Cars can contact the owner of this vehicle should the need arise. For this reason we ask all new owners to provide us with their details so we can keep our records up to date.

If the change of ownership form is missing from this hard book and you have not informed the Company that you are the new owner, please contact the Caterham Factory Aftersales Department on 01322 625804 or Email your details to aftersales@caterham.co.uk.

SIGNATURE

## CEZANTI III FRITHIZANTALI CHANGE OF OWNERSHIP/ADDRESS

In order that we can get in touch with the owner of this vehicle should the need arise, it is important that Caterham Cars always have a record of the current owner and his or her address. If you have moved please inform Caterham Cars of your new address. If you are the new owner please fill in and return this form.

New Owners Name:
New Owners Address:
6-
Postcode:
Contact number:
Date of Transfer:
Vehicle details
VIN No.: SDK
Vehicle Registration No.:
Warranty Expire Date:
Previous Owners Name:
Previous Owners address:

Caterham Cars Limited Kennet Road Dartford Kent DA1 4QN

From time to time Caterham will send out promotional material informing you of new parts or special offers. If you do not wish to receive such information please tick this box

The information provided will be stored and used by Cateram Cars and will under no circumstances be passed on to any third party.

Or Email your details to: aftersales@caterham.co.uk

Kennet Road, Dartford, Kent DA1 4QN

Please return to: Caterham Cars Aftersales, Unit 2,

.Postcode:\_

Caterham Cars Limited
Station Avenue
Caterham
Surrey CR3 6LB
England
Tel: 01883 333700
Fax: 01883 333707
sales@caterham.co.uk

Caterham Midlands
The Knoll
Leicester Road
Earl Shilton
Leicestershire LE9 7TJ
Tel: 01455 841616
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