

TVR

Cerbera



Owners Handbook

TVR do not accept any responsibility for any inaccuracies, errors or omissions contained within this handbook, although every effort has been taken to make it as complete and accurate as possible.

TVR do not accept any liability for any consequential or other losses howsoever arising as a result of any of the recommendations contained within this handbook.

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Dear Customer,

Thank you for purchasing your *Cerbera*. We trust that you will enjoy it. The car has been designed and built to be safe, very rewarding to drive and have a long life.

We assume that new customers of TVR have previously owned high performance cars and are interested in driving, considering themselves to be good drivers. We feel, however, that a few words of caution are necessary.

The *Cerbera* has, by any standards, a very high power to weight ratio which endows the car with unusual performance. The power curve is a totally different shape to that of other TVRs, in so much that peak power is developed at relatively high revs. We strongly advise caution, in particular when becoming acquainted with your car.

Please note, that as with all cars fitted with wide low profile tyres, there is a much greater difference between the amount of adhesion on dry roads than on a wet or slippery surface compared with normal cars.

In summary we suggest that you observe the old racing adage, "slow in, quick out".

Please drive safely and enjoy your car.

Peter Wheeler

Chairman, TVR Engineering Limited

Since 1947, TVR have built a reputation for producing powerful sportscars using traditional handcrafted methods, from the initial body construction through to the finished product.

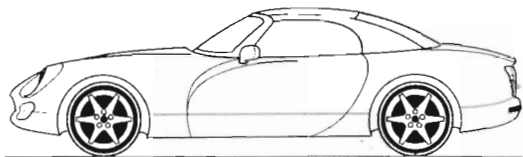
In keeping with this tradition, TVR have produced the Cerbera, which for the first time uses TVR's own engine, the AJP8 - a 4.2 litre, 75° V8, with two valves per cylinder, steel crank, steel rods, wet liners and is off all alloy construction. This remarkable engine gives 360 bhp @ 6500 rpm and 320ft/lbs of torque @ 4500 rpm and is a substantial step forward in terms of design technology for TVR. The AJP8 has been rigorously tested in the TVR Tuscan for the last two years in order to achieve performance now synonymous with TVR. This which combined with a stunning body design; unique conceptual instrumentation; and comfortable driving position, enables the driver to truly enjoy the pleasures of a handbuilt British sportscar to the full.

The Owner's Handbook

This handbook is designed to help you, the customer, understand and enjoy the TVR Cerbera by providing detailed information on controls, equipment and general car care.

If there are any queries or if more information is required, please contact your dealer.

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Length overall4310 mm

Wheelbase2566 mm

Width overall (inc. mirrors).....1865 mm

Height overall1220 mm

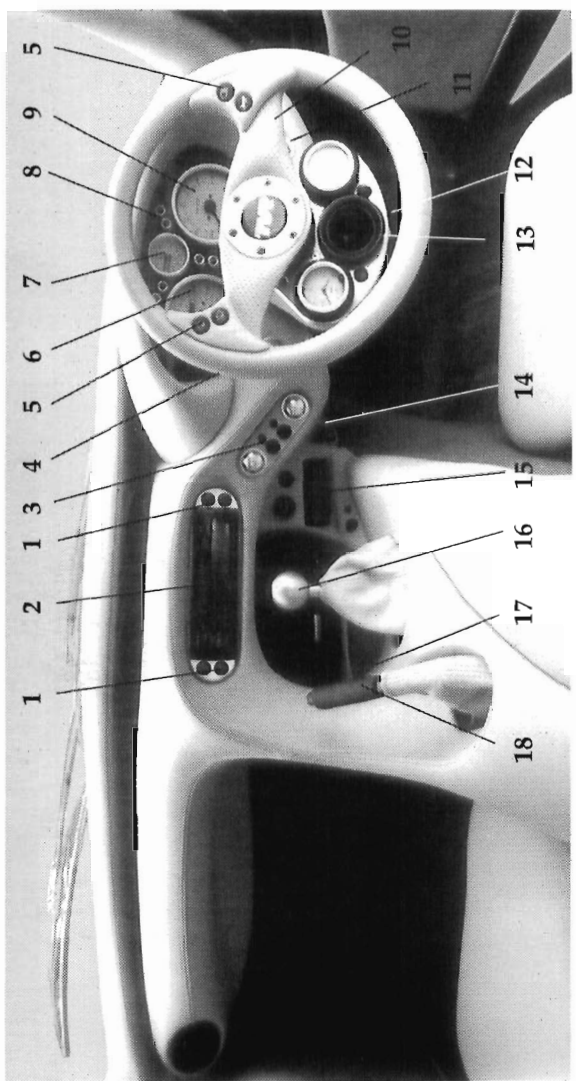
Front track1464 mm

Rear track1470 mm

Ground clearance130 mm

Fuel capacity.....67 litres, 15 gallons

Weight1100 kg



Item numbers correspond to the dashboard illustration on Page 6.

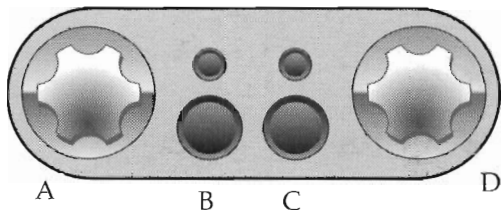
1•ELECTRIC WINDOW SWITCHES

Located to the left and right hand sides of the stereo radio cassette player. To lower a side window, press the lower of the two buttons and maintain the pressure until the desired height is achieved. To raise the window press the upper button.

2•STEREO RADIO CASSETTE

For detailed operating instructions please see the enclosed manufacturers instruction manual.

3•DEMIST, TEMPERATURE AND AIR RECIRCULATION CONTROLS



The hot(A) and cold(D) knobs are controlled by separate, infinitely variable speed, fans. However, both fans can be switched on simultaneously to mix the air to the desired temperature. To turn either fan on press and release the knob, and then rotate clockwise to boost the flow of air into the cabin. The hot and cold air controls will illuminate red and blue respectively when in use.

The vents located on the top of the dashboard direct air permanently to the screen. However, if the facia,

footwell or lower steering column binnacle vents are used, the pressure of air directed to the screen will be reduced. All vents are provided for by both the hot and cold controls.

B. Heated Rear Window

Situated next to the hot air control. To operate the heated rear window press the button. The red LED light above the button will illuminate. This function is controlled by a timer and will switch off automatically after six (6) minutes. During this time the heated rear window cannot be turned off. This control also operates the heated mirrors which demist for approximately three (3) minutes upon pressing the button.

C. Air Conditioning (where fitted)

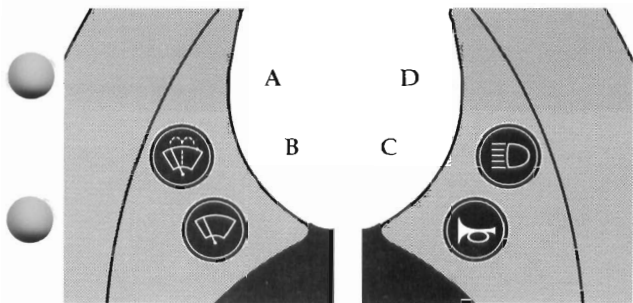
To activate the system press the button next to the cold control knob. The blue LED will illuminate. Rotate the cold air control to boost the flow of conditioned air. As described above, the heated air control can be operated simultaneously to heat the air to the desired temperature.

4•SIDE LIGHT/HEADLIGHT SWITCH

Located on the dashboard to the left of the steering wheel. For sidelight illumination rotate the dial clockwise one turn. For headlight illumination turn the switch clockwise once again. To turn the lights off, reverse this procedure. When the lights are on the switch will illuminate.

5•STEERING WHEEL SWITCHES

A. Windscreen wash/wipe. For windscreen wash/wipe press and hold down the switch for as long as is desired. Once the switch is released the



wipers sweep once more to clear the screen. To flick wipe the screen clear, press and release the switch immediately.

B. Windscreen wipe. This switch is sequential in operation and each of the following instructions assumes that the wipers are off.

i. For intermittent wiping press and release the switch once.

ii. for first speed wiping press and release the switch twice.

iii. for second speed wiping press and release the switch three times.

iv. by pressing and releasing the switch four times

the wipers run through the above sequences and are turned off again.

C. Horn. Press to sound the horn. The horn does not require the ignition to be on to function.

D. Main beam/headlamp flash. If the headlamps are not on press and release to operate the headlamp flash facility. If the headlamps are on press and release to turn the main beam lamps on. Press and release once again to revert to dipped beam.

6•SPEEDOMETER

The gauge indicates the vehicles speed in both miles per hour (MPH) and kilometres per hour (KPH). The vehicle mileage is recorded on the odometer.

7•OIL PRESSURE/WATER TEMPERATURE GAUGE

This is a dual function gauge, the upper sector reading oil pressure with water temperature in the lower sector. **Oil Pressure:** Once the engine has been started the gauge may take a few seconds before a stable reading is displayed. The engine oil pressure should not fall below 10 pounds per square inch. Should the gauge fail to register or there is an appreciable difference from the normal working pressure, switch off the engine immediately.

Considerable damage could result if action is not taken to rectify the fault. **Water temperature:**

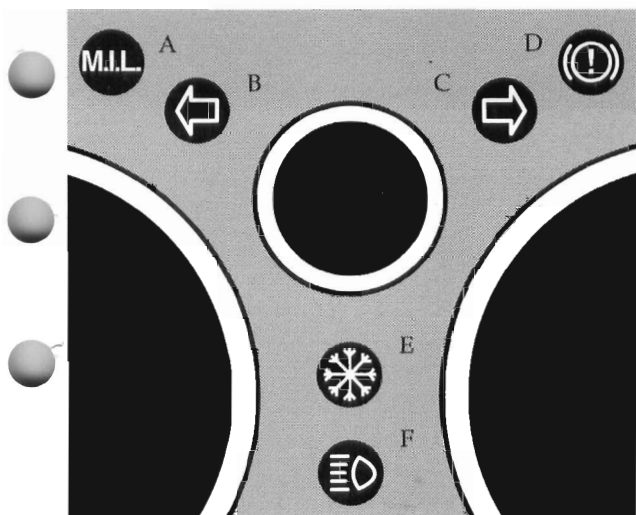
Indicates the temperature of the engine coolant at all times. The normal working temperature should register approximately 90° on the gauge. Should the gauge register between 100° and 110° and remain in that position, stop the car immediately and switch off the engine. Investigate and rectify the cause.

Warning: Do not remove the water cap when the engine is hot.

8•WARNING LIGHT CLUSTER

A Engine management warning light (red)

This light will illuminate if there is a problem with the engine management system or if the fuel injection inertia switch has been tripped. The light will remain on constantly if there is a fault with the engine management, in which case the car should be



driven at low speeds to the nearest TVR dealer. If the inertia switch has been tripped, the light will illuminate for two seconds every time the ignition is switched on. The vehicle will not start. Please contact your nearest TVR dealer for assistance.

B Left indicator warning light (green)

Flashes simultaneously with the left indicators.

C Right indicator warning light (green)

Flashes simultaneously with the right indicators.

Please note. Lights B and C also flash when the hazard warning lamps are in operation.

D Brake system warning light (red)

Brake fluid level low - check fluid level in engine bay. Also illuminates with the handbrake to check circuit.

E Ice Detector warning light

The Cerbera is fitted with an ice detector. Upon switching on the ignition, the ice detector will go

through a series of tests. The warning light will illuminate green, orange and then red after which the light will extinguish. In use the light will illuminate green if the air temperature is 5°C or less, orange if the air temperature is 2°C or less, and red if the air temperature is 0°C or less. Should the light illuminate red and remain on, even if the the temperature is obviously relatively high, the system is faulty. Please refer to your dealer.

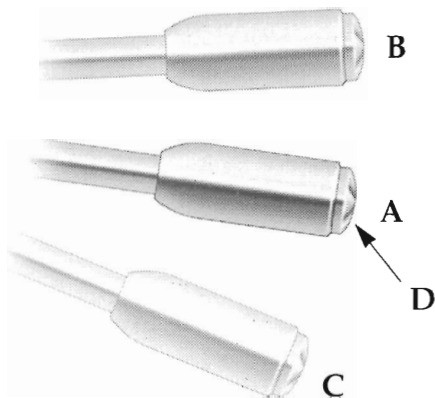
Please note: This device is intended to offer the driver an indication of current road and weather conditions in order that the driver can modify their driving style appropriately. It should not, however, be regarded as a foolproof guide to current road conditions. TVR Engineering Limited do not accept any liability for any consequential or other losses howsoever arising as a result of the driver relying solely or in part upon information given by this device.

F Main beam warning light (blue)

Illuminates when main beam is on.

9•TACHOMETER (Rev counter)

The gauge indicates the engine revolutions per minute (RPM) of the vehicle. Each figure indicated on the gauge should be multiplied by 100 to give a true figure. Maximum RPM should not exceed 3000 when the engine is cold or running in. Max RPM should never exceed 7000. At the bottom of this dial, a red light will illuminate to indicate the need to change up to the next appropriate gear. The light will illuminate from 7000 rpm.



10•INDICATOR STALK

Located on the right hand side of the steering column.

1. When turning left, flick the stalk up from position **A** to position **B** and release. The stalk will return to position **A**.
2. When turning right flick the stalk down from position **A** to position **C** and release. The stalk will return to position **A**.

The indicators will cancel automatically when the steering wheel is returned to the straight ahead position. The indicators may also be cancelled by flicking the stalk to position **B** or **C** respectively, and releasing once again, i.e. in the same direction as they were switched on.

N.B If the stalk is not released within 1/2 a second from positions **B** or **C**, the indicators will remain on until the stalk is returned to position **A**. This feature is especially useful for minor direction changes (ie.

lane changing on motorways etc).

3. Should the vehicle become immobile or present a hazard to other road users, all turn indicators may be operated in unison as a hazard warning. Depress button **D** on the end of the stalk to activate the hazard warning lights. Depress the button once again to deactivate the hazard warning lights.

11•REAR FOG LAMP SWITCH

Depress the switch to illuminate the rear fog lamps. The rear fog lights work only when the dipped headlights are illuminated. To be used only in conditions of severely reduced visibility. **Please note.** The rear fog lamps are off when the switch is flush to the dashboard. This switch will illuminate red when the fog lamps are in use.

12•STEERING COLUMN ADJUSTMENT

The steering wheel can be adjusted for both reach and rake. The lever, located on the right hand side of the steering column, controls both these operations. Push the lever down and forwards to release the mechanism. Pull/push the steering wheel to adjust for reach. Raise/lower the steering wheel to adjust for rake. Once the wheel is adjusted to your personal requirements, pull the lever back and up to lock into position. **Please note:** When adjusting the steering wheel for rake, the angle of the lower instrument binnacle will change accordingly. **Warning:** Do not attempt to adjust the steering wheel whilst the vehicle is in motion.



13•LOWER INSTRUMENT BINNACLE

Before attempting to start the vehicle please ensure that the failsafe ignition key is switched to the ON position. See Item No. 15

A. Ignition/ engine start - right hand button

(black). Press and release to turn the ignition and all electrical circuits on. Press and hold to start engine. Release as soon as the engine fires. **Please note.**

There is a two second delay before the starter motor will engage to start the engine. This feature ensures that the starter motor will not engage if the button is accidentally pressed while the engine is running.

B. Ignition/engine off - left hand button (red).

If the ignition is switched on, press and release to turn the ignition off. If the ignition is switched on and the engine is running, press and release to turn the engine and ignition off. **Warning.** Do not attempt to turn the engine and ignition off whilst the vehicle is in motion.

Clock

Located on the left side of the binnacle. To reset the time depress the button, located at the lower right of the clock and adjust as desired.

Fuel Gauge

Located on the right side of the binnacle. Indicates

the approximate fuel contents within the fuel tank and reads off in calibrations of 1/4, 1/2, 3/4 and full. Please note that when the gauge registers empty there is no reserve tank facility.

14•BONNET RELEASE

The bonnet release knob is located under the dashboard, by the lower fascia panel. Locate the knob and turn anticlockwise through 110° to release the bonnet. Lift the rear edge of the bonnet up and forwards. Pull the bonnet stay out of its clip and locate the socket in its ball joint. To lower the bonnet, pull the bonnet stay from the ball joint and return the stay to its clip. Lower the bonnet down at its rear edge. Return to the vehicle and lock off the bonnet by turning the release knob back to its original position. **Warning:** Do not attempt to close the bonnet down onto the locking catch when the release knob is in the locked position. Doing so may cause considerable damage to the bonnet panel and locking mechanism, which could require specialist repairs.

15•LOWER FACIA PANEL

A. Door/Boot Lock Switch

Internally locks the doors (for personal security) and the boot lid. Illuminates when in operation. To exit the vehicle use the door release buttons in the armrests as normal.

B. Cigar lighter

Fully depress the button to heat the element. The button will eject back to its original position when ready for use (approximately ten seconds). Withdraw the complete unit to reveal the element.

C. Ash Tray

Push the right hand side of the ashtray to revolve and reveal the tray. To close revolve back into the original position.

D. Ignition Failsafe Key

Insert the key and turn clockwise through 90° for normal operation. Turn back anticlockwise to remove and disable all ignition controls. **Please note.** This key overrides all normal operation of the electronic immobiliser, and the vehicle will be inoperable unless this key is inserted. It is not essential to remove this key to immobilise the vehicle. **Warning.** Do not use this key to switch off the engine and ignition.

16•GEAR LEVER

Always select neutral before starting the engine. To engage reverse gear smoothly, we recommend that you put the car into fifth gear and then pull back into reverse. Only engage reverse whilst the car is stationary.

**17•IMMOBILISER DISARM RECEPTACLE**

Located to the front left of the centre speaker. Please refer to security system section regarding use of the disarm contact key. (Page 22).

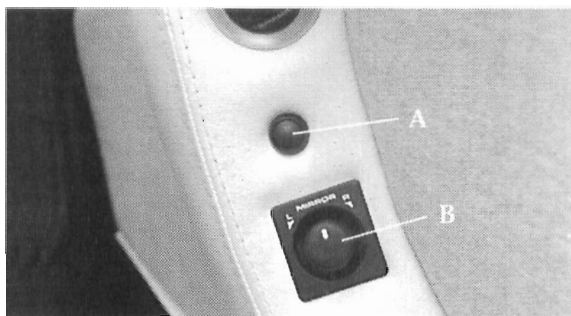
18•HANDBRAKE

To apply the handbrake pull the handle upwards while depressing the button at the end of the lever. Release the button at the end of the levers travel.

When the lever is in this position the rear brakes are on. To release, press the button and lower the lever to its lowest position. A warning light on the dashboard will illuminate when the handbrake is on.

ARMRESTS

A. Interior Door Release (x2)



Located on the drivers and passengers armrests. To open the respective door press the button. **Please note.** For your safety, these switches become inoperable once the vehicle is in motion. When opening the door take care in high winds and when parked on a slope as the door will pop open slightly. These switches override the interior door locking button, (see Item no. 15A) if the doors have previously been locked internally. Should the door release button become inoperable, there is a manual override facility that can be used in an emergency. The manual release levers are located in both driver and passenger side door sills, next to the front seats. To open the door, pull the red lever backwards.

B. Door Mirror Adjustment

Situated on the the drivers side armrest. To adjust the mirror position, first select the mirror to be adjusted by rotating the knob to the left or right as indicated. Move the knob vertically and horizontally until the required mirror position is achieved. Rotate the knob to the central position to disable the mirror functions.

INTERIOR LIGHT

The interior light is located in the centre of the front header rail and in the C pillars above either door.

Position 1. Light will remain permanently on.

Position 2. Light will remain permanently off.

Position 3. Light will come on when drivers or passenger door is open. After closing the doors the light(s) will remain lit for a few seconds.

Please note: The interior lights work independently from the ignition.

SEAT ADJUSTMENTS

Seat Slide. To adjust the fore/aft position of the seat, pull the lever located beneath the front of the seat, thus releasing the slider. Slide the seat to the required position. Release the lever and rock the seat to ensure the locking mechanism has engaged.

Seat Reclining. To adjust the angle of the backrest, lift the lever located on the outer edge of the seat by the pivot point. Tilt the backrest to the required angle. Release the lever and ensure that the locking mechanism has engaged.

Lumbar Support (where fitted). To adjust the lumbar support in the backrest use the pump located on the inner side of the seat to inflate the support. To reduce the lumber support given, press

the button on the end of the pump to deflate the support.

Head Restraints

For head restraint adjustment, pull the restraint up or push down to the required position, (the centre of headrest should be approx. level with eye line)

Please note: It is important that the head restraints are adjusted for individual drivers and passengers, to offer full restraint in the event of an accident. Failure to do so could result in injury from the slightest accident.

SEAT BELTS (front)

Seat belts must be worn at all times. To fit belts, ensure that the belt upper extension arm is lying in the horizontal position and that the seat belt buckle is readily at hand below the end of the extension arm. Pull the buckle forward over the right shoulder, continuing across the chest and into the seatbelt stalk located on the inboard side of the seat. Push the buckle into the stalk head to lock. **Please note.** Make sure that the outboard end of the belt looped around the chrome plated bar by the seat base is at the forward end of this bar. Removal of the belt is the reversal of the above. Where the rear seat passengers require access, it is necessary to depress the front seatbelt upper extension arm, which allows the belt to slide rearwards along the outboard chromed bar out of the way of the entrance to the rear seats. To remove the seatbelt, depress the button on the seatbelt stalk.

Please note: When fitting the seat belt, the car may have to be on level ground before the reel will release the belt.

SEAT BELTS (rear)

The rear seatbelts are unusual in that the seat belt stalk is located on the outboard side of the vehicle rather than inboard, but the method of fitment is still the same. Reach over the inboard shoulder and draw the seat belt buckle downwards and outwards across the chest and offer the buckle into the seat belt stalk, located immediately adjacent to your outboard hip. Push buckle into stalk to lock. To remove seatbelt, depress the red button on the seatbelt stalk.

IMPORTANT NOTES

1. Check the belt is not caught or obstructed in any way when fitting.
2. Do not clean the belt material with detergents or solvents.
3. If the vehicle is involved in an accident the seat belt must be replaced.
4. Do not use the seat belt for more than one person.
5. Check for general wear and tear on the belt. If in any doubt contact your dealer.
6. Ensure that the belts have fully retracted before leaving the vehicle.

BOOT RELEASE

To release the boot lid catch, press the left side of the *Cerbera* badge on the left rear of the vehicle. To close the boot, lower the lid onto the catch and press firmly down on the boot at the rear. **Please Note:** Do not slam the boot lid down onto its catch.

ALARM & LOCKING

The Alarm System installed in your vehicle has been designed to provide optimum protection at all times. The System uses a Rolling Code Radio key which never uses the same code twice and is therefore code grabber proof.

OPERATION OF THE ALARM SYSTEM

20 seconds after the ignition is switched off the immobilisers will always arm (even if you do not exit the vehicle) but the alarm will not arm. If you wish to drive the vehicle then simply press the middle button on the radiokey to switch off the immobilisers.

LOCKING & USING YOUR RADIOKEY

Exit the vehicle, ensuring both doors and windows are closed. Press the middle button on the radiokey once for one second, and release. Your car will acknowledge the signal by flashing its hazards lights three times and activating the central door locking.

Your alarm is now armed but will take an additional 30 seconds to stabilise and become active. A red warning light mounted at the top of the rear screen will begin to flash to act as a visual deterrent.

UNLOCKING & DISARMING THE ALARM

As you approach the vehicle, press the middle button on the radiokey for about 1 second. The vehicle will acknowledge the signal by flashing its hazard warning lights once. The doors will unlock as you disarm the alarm. Once unlocked, to gain

entry to the vehicle, press the exterior door release button located under the door mirror. **Please note:** If you do not turn the ignition on within 20 seconds of disarming the alarm, the immobiliser will become active. Should entry to the vehicle not be possible due to a system malfunction, access can be gained by pulling the emergency door release lever. To gain access to the lever, remove the fuse and relay panel from the upper right hand side of the boot. Pull the red lever towards you to release the drivers door

PERSONAL PROTECTION

As a measure of personal protection, you may trigger your siren by pressing the button down for six seconds. The siren will sound and the hazard lights will flash for 15 seconds.

ELECTRONIC CONTACT KEY

Should you need to disarm the immobiliser without the use of the radio key, this can be achieved by using one of the small contact keys provided. On entering the vehicle, the contact key should be inserted into the override key receptacle mounted in front of the speaker case on the left. The small LED will be flashing to show the vehicle is immobilised. On insertion and removal of the contact key, the LED will be extinguished. The vehicle can now be started.

INTERNAL SENSOR DISABLE

To disable the interior ultrasonic sensors, press and hold the button on the radio key for approximately 4 seconds. This is indicated by a series of fast flashes of the hazard lights. The sensors will be

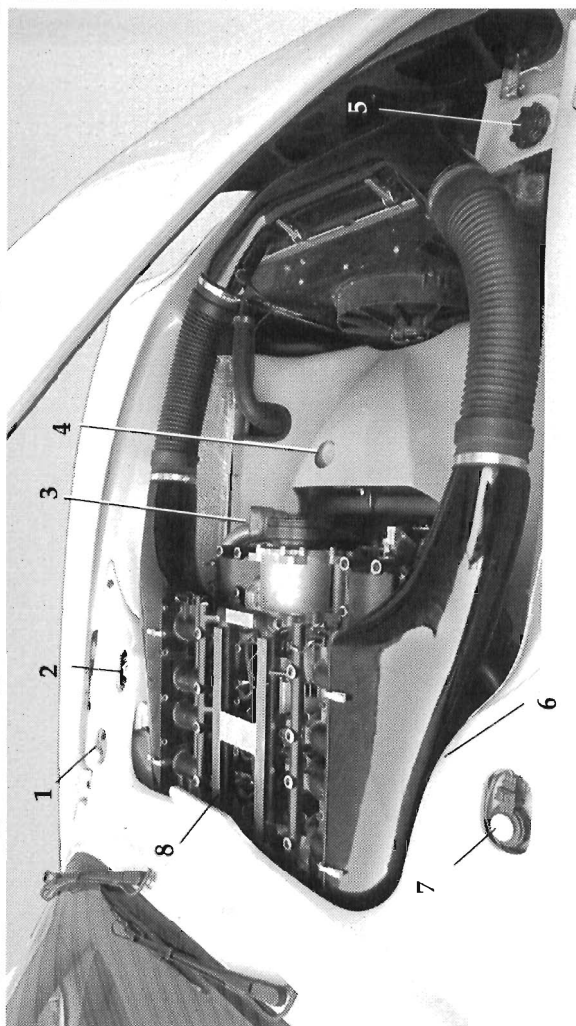
automatically introduced when the system is next operated.

SYSTEM DIAGNOSTICS

The alarm system is capable of indicating whether the alarm has been triggered in your absence. The LED mounted at the top of the rear screen will flash in one of the following sequences to indicate which circuit triggered the alarm:-

- | | |
|-------------------|----------------------------|
| 1. Ultrasonics | 1 flash every 6 seconds |
| 2. Doors | 2 flashes every 6 seconds |
| 3. Boot or Bonnet | 4 flashes every 6 seconds |
| 4. Panic facility | 16 flashes every 6 seconds |

All fluid specifications and capacities are listed in the basic data and specifications section.



1•COOLING SYSTEM

Please note: Do not remove the blue pressure cap on the expansion tank if the engine is hot. Always check the coolant level when the engine is cold.

The coolant level is visible through the transparent sides of the expansion tank. When the engine is cold, the coolant level should be at the MAX mark which is indicated by the seam on the side of the tank. When the engine is at its operating temperature, it is normal for the coolant level to rise above the MAX level.

If for any reason the cooling system needs the addition of a large quantity of coolant (ie. after draining or major leak) then the system must be carefully bled. Fill the system through expansion tank. When full loosen the large brass screw. Air will be expelled - tighten the plug when water without air bubbles is expelled. Loosen the bleed screws on both the nearside and offside coolant rails. These are located between the black air boxes and the camshaft covers. Once again air will be expelled. Retighten the bleed screws when water without air bubbles is expelled. Start the engine and run at idle (1500 rpm) with the blue pressure cap off and continue to add coolant through the expansion tank. When the thermostat opens more coolant will need to be added. When no more coolant can be added replace the blue pressure cap. Let the engine run for a few more minutes until the fan cuts in and switch off the engine. Should the temperature gauge read above 105° before the fan cuts in stop and allow to cool. When the engine has cooled and no

pressure can be felt in the radiator hoses remove the blue pressure cap and top up to the MAX level indicated on the side of the expansion tank The system is now full. **Check the coolant level every week.**

2•BATTERY

Located under the bonnet on the left hand inner wheel arch. Should the battery need recharging please follow the following instructions. Connect the red positive lead to the red terminal visible through the access hole in the engine bay trim panel. Connect the black earth lead to any suitable metallic surface on the engine. Plug in and switch on battery charger.

3•ENGINE OIL FILLER CAP

To remove, unscrew the cap in an anti clockwise direction and top up with TVR recommended oil (see page 41) if required. Ensure that the cap is tightened fully once the engine oil has been refilled..

4•WINDSCREEN WASHER RESERVOIR

Refill with a mixture of clean water and windscreen washer fluid.

5•POWER STEERING FLUID

Remove the reservoir cap/dipstick. Check the fluid level is between the top mark on the dipstick and the bottom of the dipstick. Only top up with TVR recommended fluid (see page 41).

6•CLUTCH FLUID RESERVOIR

Located under the engine bay trim panel. Check

that the fluid level is up to the MAX line on the reservoir. Only top up with TVR recommended fluid, (see page 41).

7•BRAKE FLUID RESERVOIR

Check that the fluid level is up to the MAX line on the reservoir. Only top up with TVR recommended fluid, (see page 41).

8•ENGINE OIL DIPSTICK

Due to the nature of the AJP8's design, the engine will normally use a small amount of oil. We therefore recommend that the oil level is checked on a daily basis. The oil should always be checked on level ground with the engine switched off. Pull the dipstick out and wipe clean to ensure a true reading. Re-insert the dipstick and remove once again. The level of oil should read between the min and max marks on the dipstick. **Please note.** Over filling may cause oil wastage. Running the engine with an oil level below the minimum mark could result in considerable damage being caused.

FUSE AND RELAY PANEL

The fuse and relay panel is located in the boot at the upper right hand side of the inner wing. To gain access, pull access panel away from the inner wing.

Fuse No.	Description	Size			
1	Engine fan (relay 1)	25A	No.1		
2	Main Beam	20A	Engine fan		
3	Engine fan (relay 1) & horn	25A	No.7		
4	Sidelights, fog lamps & hazards	15A	Engine fan		
5	Heated rear window	25A	No.2		
6	Door control unit, alarm immobiliser	15A	Heated Rear Window		
7	Boot lock, pass. door lock, radio	15A	BLANK		
8	Injectors, alarm/ immobilisers	10A	No.8		
9	Engine management	10A	BLANK		
10	Right hand window	20A	No.3		
11	Left hand window	20A	BLANK		
12	Speed, lights, dim dip, dash, ECUs	10A	No.9		
13	Starter, drivers door lock	20A	BLANK		
14	Heater control	10A	No.10		
15	Indicators, reverse, brake	20A	BLANK		
16	Wipers, mirrors	25A	No.4		
17	Ignition coils	25A	Fuel pump/lambda heaters		
18	Heater fans	25A	Master ignition		
19	Fuel pump and lambda heaters	15A	No.5		
20	Master ignition	15A	Horns		
21	Dip beam	20A	No.6		
			Spare Fuses x 4		
			Main Beam		
			No.11		

BULB REPLACEMENT

N.B. Before attempting to replace any faulty bulbs on the vehicle, the ignition should be switched off.

INTERIOR LIGHT BULB REPLACEMENT

Insert a screwdriver behind the lens of the interior light, position a rag behind the screwdriver to safeguard against marking the trim surround. Lever the unit out to reveal the bulb. Replace the bulb, (for the correct bulb see page 32), place the assembly back into the aperture and push back into position.

SIDELIGHT BULB REPLACEMENT

Jack up and remove the front road wheel. Remove the circular access panel located in the front wheelarch. Locate the sidelight bulb, which is placed beneath the headlight/main beam bulb. Unclip the bulb from its mounting, disconnect and replace bulb.(for the correct bulb see page 32). Refit the bulb and access panel.

HEADLAMP/MAIN BEAM BULB REPLACEMENT

Jack up and remove the front road wheel. Remove the circular access panel located in the front wheelarch. Locate the bulb, unhook the spring retainingclip and remove the bulb. Replace the bulb, refit the spring clip and the access panel.

INDICATOR BULB REPLACEMENT (FRONT)

Jack up and remove the front road wheel. Remove the lower rectangular access panel in the wheelarch. Reach through the access hole to the rear of the indicator assembly. Unscrew the indicator housing.

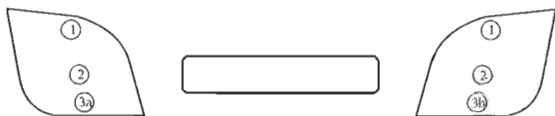
Remove and replace the bulb, (for the correct bulb see page 32), refit the housing and the access panel.

REAR LIGHT CLUSTER

(Includes indicator, brake light, rear light, reversing light and rear fog light)

Press the tab levers and open the back of the unit, this gives access to all the bulbs. Replace the faulty bulb, (for the correct bulb see page 32) and close the back of the unit until it "snaps" shut.

1. Rear light and brake light
2. Indicators
- 3a. Rear fog light.
- 3b. Reversing light



REAR NUMBER PLATE AND BOOT LIGHT

There are two number plate lights located inside the boot. Undo the two screws and remove the bulb holder. Replace the faulty bulb, (for the correct bulb see page 32).

BULB SPECIFICATION TABLE

Headlamps	55/65W
Sidelights (front)	5W
Indicators (Front)	21W
Side Repeaters	5W Capless
Brake Light/Rear light (rear)	21/5W
Indicators (Rear)	21W
Number Plate Lights	5W
Fog Light	21W
Reversing Light	21W
Interior Light	5W
Warning Lights	2.2W
Gauge Lights - Speedometer/Rev-Counter Temp/fuel/oil	5W Capless
Initial Headlamp Beam Setting Vehicle Unladen	1.5%

PUNCTURE REPAIRS

Due to the impracticalities of carrying a full sized wheel and tyre, the *Cerbera* is provided with a can of puncture repair foam which is intended as a temporary measure only to allow you travel home to have the puncture professionally repaired. Please follow the instructions printed on the can. However, should the puncture be more serious, due to a blowout or impact with a substantial object, this method of repair will not be effective. In this event, the vehicle will need to be recovered. AA Roadside Assistance is provided from new for 12 months.

TOWING THE VEHICLE

A towing eye is provided on the front of the vehicle for tow rope attachment. If the vehicle is being towed, the ignition switch should be switched on (ignition warning light illuminated). The indicators, horn and brake lights will now also be operational. Assistance from the brake servo will be lost after the first two or three applications of the foot brake. This will increase the force required to depress the brake pedal.

STARTING USING JUMP LEADS

If your vehicle has a flat battery, it can be started with the assistance of a second battery. To jump start the vehicle:-

1. Switch off all unnecessary electrical loads.
2. Connect one end of the jump lead to the positive (+) terminal on the booster battery and the other end to the positive terminal on the flat battery.
3. Connect one end of the other lead to the negative terminal on the booster battery and the other end to

a suitable earth on the car (i.e. chassis, engine etc).

Please note. Ensure that one lead does not touch the clamp on the other lead when connecting to the terminals.

4. Start the engine in the vehicle which has the booster battery, allow it to run for a few minutes.

5. Start the engine in the vehicle with the flat battery. If it starts and runs smoothly, carefully disconnect the jump leads in reverse order.

BREAKDOWN COVER

In certain markets the vehicle, when bought from new, receives a 12 month Full Breakdown Cover policy. The policy is applied for by the factory on behalf of the customer, after being notified by the vending dealer of the customers details. Notification of the policy will be forthcoming, with registration card and full details enclosed. Should you require any further details regarding the cover, contact your dealer.

RUNNING IN

Most mechanical components benefit from a running - in schedule during which loads and/or speeds are varied to achieve surface and lubrication improvements as minute asperities of metallic interfacing surfaces are removed by wear or by planishing.

The benefit of this is a longer trouble free life for the mechanical components. The running - in procedure helps to hold down the lubricants temperature and consequently the viscosity of the oil is maintained at a higher level than would be case if the component was put on full load and speed without running -in.

To gain maximum performance, service life and general reliability, the best policy to adopt during the run in period is to avoid high engine rpm, large throttle openings, and most importantly, not allowing the engine to labour in a high gear.

RECOMMENDED RPM DURING THE RUNNING IN PERIOD

1. Starting the engine from cold. 0-1000 miles, rpm should not exceed 2500 rpm until the engine is warm.
2. Do not use full throttle accelerations in low gear for at least 900 miles and avoid full throttle use in any gear for the first 250 miles
3. Avoid driving at a constant speed within the first 300 miles.

TYRES

To obtain the maximum performance from the tyres,

during the 0-500 mile period, it is advisable to avoid excessive braking and cornering whenever possible.

BRAKES

To bed the brake pads in correctly, avoid excessive braking during the first 500 miles, unless required to do so in an emergency.

PETROL FILLING

The fuel filler cap is located in the boot, next to the left boot hinge. Unscrew the cap by turning anti-clockwise. **Please note.** Any petrol spilt onto the paint work should be washed off immediately to prevent staining. The TVR Cerbera is designed to run exclusively on unleaded fuel and is fitted with a narrow fuel filler neck, making it compatible only for unleaded fuel pumps at petrol stations.

CLEANING THE VEHICLE

Exterior Cleaning

By Hand.

The body work can be washed using a mild detergent or specialist car shampoo. A low pressure hose pipe should be used to rinse the vehicle. Specialised cleaners should not be used when cleaning the road wheels.

Using a power wash.

Power washing the bodywork is quite acceptable. However, do not spray the high pressure jet directly at the paintwork, or the door/window seals. Do not, under any circumstances, power-wash the engine bay, as this will cause serious electrical problems.

Automatic car wash

The use of automatic car washes is not recommended as the door/window seals are not designed to withstand the direct force of high pressure water jets. Also, the detergents used and the cleaning action of the brushes may damage the paintwork.

Interior Cleaning

Vinyl/Leather

Vinyl and leather should be cleaned with a damp cloth. However, a little mild detergent or proprietary upholstery cleaner may be required to remove ingrained marks. Leather upholstery will benefit from a periodical application of Hide Food.

Carpets

Carpets should be cleaned regularly with a vacuum cleaner to remove dust and dirt. Mild detergents and warm water may be required to remove any difficult marks or stains.

CHECKS & SERVICING

Recommended Weekly Checks.

1. All exterior lights.
2. Oil level.
3. Coolant level.
4. Brake fluid level.
5. Clutch fluid level.
6. Power steering fluid.
7. Windscreen washer bottle.
8. Tyre pressure.
9. Spare tyre pressure.
10. Visual check for any fluid leaks.

If for any reason the vehicle is grounded or an object strikes the chassis from below, it is advisable to visually inspect the chassis for signs of damage. If there is damage, the vehicle should be taken to your local dealer for a thorough inspection.

SERVICE INTERVALS

The following are recommended service intervals for the vehicle.

1000 miles

6000 miles

12000 miles

18000 miles

24000 miles

30000 miles

and every 6000 miles thereafter or every twelve months, whichever is reached first.

NOTE. All service work should be carried out by a TVR factory approved service centre. A

comprehensive list of service requirements is located within the Service Schedule Section. For further information contact your local dealer.

CATALYTIC EXHAUST SYSTEMS

In conjunction with a highly efficient engine management system designed to work with exhaust catalysts and a fuel tank vapour recovery canister, the catalytic exhaust system is designed to reduce emissions of exhaust gas pollutants and fuel vapour to a level well below the strictest European and Scandinavian legal limits. To maintain the effectiveness of the emission control system the following points should be observed:-

1) **NEVER USE LEADED PETROL**, even in an emergency. The emission system will only function correctly on unleaded fuel. Using 4 star or other grades of fuel containing lead will damage the vehicles catalytic converters and exhaust gas oxygen sensors. Replacement of these components is expensive. The engine is designed to run on **98 (RON) octane (super green) unleaded**.

2) Do not allow the car to run out of fuel. An irregular fuel supply, caused by a near empty tank, can cause engine misfires which may damage the catalytic converters.

3) Ensure that the car is regularly serviced by a TVR Dealer or Approved Service Centre. All TVR Dealers have special diagnostic equipment necessary to check for the correct operation of the emission system.

4) Avoid all situations whereby unburnt or partially burnt fuel is allowed to enter the exhaust system. For instance, avoid unnecessarily long engine

cranking periods, never run the engine with a sparking plug cap disconnected and do not allow the car to coast in gear with the ignition switched off.

It is inadvisable to push or tow start the vehicle, especially if the catalyts are hot. If the engine will not start because the battery is flat, use a pair of jump leads and a slave battery. If the engine misfires or seems to lack normal performance it is recommended that you drive, at low engine speeds, to the nearest TVR dealer.

5) Take care when parking the vehicle. The catalytic converters and exhaust system can radiate a considerable amount of heat. **The vehicle should not be parked over combustible materials, such as dry grass, leaves or paper.**

6) The catalytic converters are wrapped in an insulating material which must not be removed. Sealant or other materials should not be applied to the catalyts.

SEAT BELTS

Ensure that the seat belt is not obstructed in any way when fitting. The seat belts should be fully retracted before leaving the vehicle. Clean the seat belt webbing using soapy water. **Do not** use solvents or abrasives to clean the webbing.

BRAKE AND CLUTCH

Certain brake and clutch components may contain asbestos based material. Precautions must be taken when servicing these components. Avoid any skin

contact or inhalation of the dust. Servicing of these components should be carried out by qualified personnel only.

USED ENGINE OIL

Prolonged or repeated contact may cause serious skin disorders. Avoid excessive contact, and wash thoroughly after contact.

ENVIRONMENT PROTECTION

It is illegal to pollute drains, water courses or soil. Use authorised waste disposal facilities to dispose of used engine oil. If in doubt, contact your local authority for advice.

FUEL PUMP SHUT-OFF INERTIA SWITCH

In the event of an accident the power to the fuel pump is cut off, thereby stopping the supply of fuel to the engine. If the switch has been actuated the M.I.L. warning light will illuminate for approximately two seconds each time the ignition is switched on.

Should the Inertia Switch require resetting please contact your dealer.

Engine*Running in to 1000 miles**Mobil Delvac SAE10W30* 6 litres*From 1000 miles - 6000 miles**Mobil Delvac SAE15W40* 6 litres*6000 miles on**Mobil Delvac SAE15W40* 6 litres*or Mobil 1 SAE5W50***Gearbox***Mobil ATF 220* 1.4 litres**Differential***Mobil SHC 80W 140 ID* 1.6 litres**Cooling System***Mobil Universal Antifreeze* 12 litres**Brakes and Clutch***Mobil Universal Brake and Clutch Fluid SAE J1703***C.V. Joints***Mobil Grease Special NLGI 2***Power Steering (where fitted)***Mobil ATF 220*

Please note. TVR use and recommend Mobil products. Failure to use these products could effect vehicle performance and reliability and may also invalidate the warranty.

BODYSHELL

Two door, four seat, fixed head coupe manufactured in glass reinforced polyester resin. Integral roll cage. Laminated sundym windscreen with frameless electrically operated door windows.

INTERIOR

Half hide interior with individually reclining front seats trimmed in leather complete with adjustable head restraints. Full Hide interior trim is available as an option. Walnut veneered dashboard with comprehensive instrumentation including speedometer, tachometer, oil pressure, water temperature and fuel gauge together with a voltmeter and electric clock. Electrically operated boot release.

CHASSIS

Jig formed multi tubular steel frame chassis, phosphated and powder coated for corrosion resistance.

SUSPENSION

Front - Independent with unequal length wishbones, coil springs over gas filled telescopic shock absorbers with anti-roll bar.

Rear - Independent with unequal length wishbones, coil springs over gas filled telescopic shock absorbers with anti - roll bar. Constant velocity driveshafts from centrally mounted limited - slip differential.

BRAKING

Front - 291 mm diameter ventilated front disc

brakes with 4 piston alloy calipers.

Rear - 306 mm diameter ventilated rear discs with 2 piston calipers.

Servo assisted with front/rear split dual circuits.

Cable operated drum handbrake operating on the rear.

STEERING

Power assisted AJP rack and pinion steering with adjustable column. 350 mm leather covered steering wheel.

WHEELS & TYRES

Front - 16" x 7.5J aluminium alloy wheels fitted with Bridgestone Expedia S-01 225/45 ZR low profile tyres.

Rear - 16" x 7.5J aluminium alloy wheels fitted with Bridgestone Expedia S-01 235/50 ZR low profile tyres.

RECOMMENDED TYRE PRESSURES

Front - 22 psi (1.51 bar)

(sustained high speed or fully laden - 25 psi (1.72 bar))

Rear - 24 psi (1.65 bar)

(sustained high speed or fully laden - 28 psi (1.93 bar))

For Performance Technique driving days, increase the tyre pressures to 28 psi (1.93 bar) all round. Please note. Do not forget to return to the tyres to their normal pressures at the end of the day.

TRANSMISSION

5 speed manual gearbox with hydraulically operated clutch.

Gear ratios:-

1st	2.95:1
2nd	1.95:1
3rd	1.34:1
4th	1.00:1
5th	0.73:1

Limited slip differential 3.45:1

Optional Hydratrak™ Limited Slip Differential

The Hydratrak™ coupling unit which is a sealed for life, fluid filled cartridge, houses an inner rotating element which is also splined to the left hand shaft, thereby interconnecting both axle shafts via the coupling unit. Consequently, wherever there is any relative wheel speed difference between the left and right rear driving wheels, there will occur relative movement within the Hydratrak™ unit, which in turn creates hydraulic resistance. Greater torque is then transferred to the slower rotating wheel in order to provide the vehicle with enhanced stability as well as tractive ability. This hydraulic resistance also increases as the relative wheel speed increases, thereby providing a speed sensitive rather than torque sensitive type of limited slip differential ensuring smooth and progressive operation.

Please Note. In the event of the rear wheels being under difficult tractive conditions, continued excessive wheel spinning should be avoided to ensure excessive heat is not generated within the unit which may cause premature failure.

ENGINE - AJP 8

75 degree alloy V8 engine

Capacity (cc) 4185

Bore/stroke (mm)	94 x 90
Compression Ratio	10.0:1
Max rpm	7000
Max power	350 bhp (DIN) @ 6500rpm
Max torque	320 ft.lbs @ 4500 rpm
0 to 60 mph	4.2 secs
0 to 100 mph	9.9 secs
Power/weight ratio	318 bhp/ton

FUEL & IGNITION SYSTEMS

Fully mapped engine management with three way catalytic convertors and closed loop control strategy.

WARNING: This vehicle must not run on leaded fuel - see section on Catalytic Exhaust Systems page 40.

This TVR has been built by TVR Engineering Limited, to the best of their ability within the present scope of the art known to specialist car manufacturers. This warranty is given in addition to and shall not affect the purchaser's statutory rights as a consumer.

TVR Engineering Limited (hereafter known as the Company) warrants each motor car and each replacement part to be free from defects in material and workmanship, under normal use and service, and subject to the terms and conditions stated in this limited warranty, for the applicable Warranty Period set forth in paragraph 1(a)

1.(a) General Warranty Coverage.

The Company warrants each new motor car to be free of defects in material and workmanship for a period of 12 months after delivery of the motor vehicle to the original owner. If any part or parts of a TVR car should prove defective within this prescribed period, and if such part or parts are submitted within 14 days to an authorised TVR distributor or dealer, the Company will cause such part or parts to be examined within a reasonable time and in the event of a fault due to defective workmanship or material being found the defective part or parts will be repaired or replaced without charge for the parts or labour involved in their replacement.

1.(b) Body Warranty Coverage. One (1) year.

The Company warrants the body shell, paint, exterior and interior trim, seats and upholstery and battery of each new motor car to be free from defects in material and workmanship for a period of one (1) year after delivery of the motor car to the original owner.

1.(c) Replacement Parts Coverage.

Parts, assemblies and components which are replaced under the warranty are warranted to be free from defects in materials and workmanship for 180 days from the date of replacement, or until the expiration of the period in which the general or body warranty remains in effect, whichever occurs last.

2. Extent of Company Obligations.

The obligations of the Company under this warranty are limited to the repair or, at its option, the replacement of a new or remanufactured unit, without charge for labour or parts, of any part of assembly or component determined to be defective in material or workmanship during the applicable warranty period. All defective replacement parts become the property of the Company upon removal. All service under this warranty must be performed by an authorised TVR dealer importer or distributor at his place of business, unless prior authorisation is obtained from the Company. Persons dealing in the Company's vehicles or spare parts are not authorised to bind the company in any way or to assume any obligation whether expressed or implied on behalf of

the Company nor to give any warranty or guarantee nor make any representation on behalf of the Company.

3. Exclusion from Warranty Cover.

(a) **Proprietary Equipment.** The only warranties given for radio receivers, tape players and tyres are written warranties which are issued by the suppliers of such equipment.

(b) Maintenance, Service, Wear & Tear.

The obligation of the Company does not extend to maintenance services such as tune ups, cleaning of coolant, fuel and hydraulic systems, wheel balancing and alignment, and other service adjustment, nor to the repair or replacement of service items such as lubricants, fluids, spark plugs, wiper blades, filters, belts, coolant hoses, clutches, brake pads, nor to the deterioration of the paintwork, upholstery or any damage occasioned as a result of an accident or as a result of the negligent use of the vehicle howsoever occasioned or any part, assembly or component as a consequence of normal wear and tear or exposure to the elements.

(c) Motor Racing, Alteration & Hire.

The obligation and warranties of the Company do not extend to vehicles used for motor racing or competition of any nature or to vehicles or parts which have been altered after leaving the Company's factory, or which have been let out on hire, or from which identification numbers or marks have been altered or removed.

(d) Consequential & Incidental Loss or Damage.

This warranty neither covers nor extends to any consequential damage or expense including, but not limited to, inconvenience hotel or restaurant expenses, towing or parking fees, car rentals, nor the loss of time or use of the motor car.

4. Limitations of Warranties.

This warranty limits the duration of all implied warranties, including the implied warranties of merchantability and fitness for a particular purpose, to the time periods set forth in sub paragraphs 1(a), 1(b) and 1(c). The warranty shall not be transferred to anyone unless the Company's consent in writing has first been obtained upon receipt of the change of ownership card located at the rear of this warranty.

5. Obligations of the Owner as to proper Care and Usage.

The Company has no obligations under this warranty in the following circumstances:-

(a) if the essential maintenance services identified in the service coupon booklet and the maintenance instructions described in the owners handbook are not performed and followed at the prescribed intervals.

- (b) if failure or malfunction of the vehicle or any warranted part, component or assembly results from an accident.
- (c) if failure or malfunction is caused by negligence in use of the vehicle.
- (d) by performance of service, repair or modification other than in accordance with the recommended servicing and repair procedures of the Company
- (e) if the vehicle is registered or used in the United States of America, Canada, Hawaii, Guam, and the United States Virgin Islands or Outside Continental Europe in countries where different legislation on vehicle safety and environmental emission standards apply so as to render the European specification illegal and invalid.
- (f) if the vehicle is modified or added to in any way not previously agreed by the Manufacturer in writing.
- (g) if the limits for chassis load, axle load, pay load, permissible gross weight or axial pressure are exceeded.

6. Disputes.

The Company's decision shall be final and binding in respect of any claim or dispute arising out of a defect or alleged defect in any vehicle or part. After the expiration of fourteen days from dispatch of notification of the Company's decision the part or parts may be scrapped by the Company or returned to the purchaser, in which event transport charges are payable by the purchaser.

7. Return of Warranty Acknowledgment Card.

The obligations of the Company under this warranty shall not arise unless and until the Company shall receive the warranty Acknowledgment appearing at the end of this warranty, within 28 days from the date of purchase, duly executed by the original owner.

For TVR Engineering Limited:
Peter Wheeler, Chairman

Please keep this booklet in your vehicle as to avoid unnecessary delay it must be shown to the authorised TVR distributor or dealer at the time the repair is requested.

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