Rover 3½ Litre
Owner's Instruction Manual

ROVER 3½ LITRE OWNER'S INSTRUCTION MANUAL

Incorporating: SALOON and COUPÉ MODELS

The Rover Company Limited

Solihull, Warwickshire, England

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Specification details set out in this handbook apply to a range of vehicles and not to any particular vehicle. For the specification of any particular vehicle owners should consult their Distributor or Dealer.

The Manufacturers reserve the right to vary their specifications with or without notice, and at such times and in such manner as they think fit. Major as well as minor changes may be involved in accordance with the Manufacturer's policy of constant product improvement.

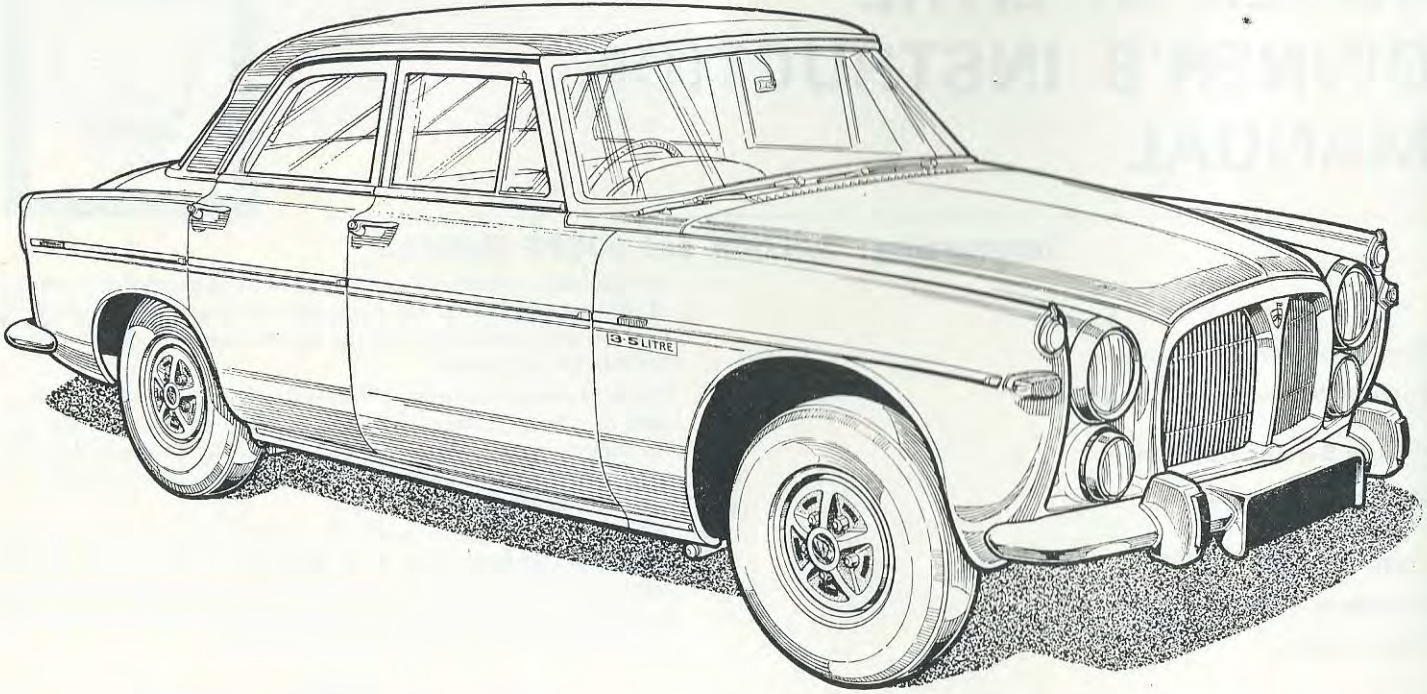
Whilst every effort is made to ensure the accuracy of the particulars contained in this Handbook, neither the Manufacturer nor the Distributor or Dealer by whom this Handbook is supplied, shall in any circumstances be held liable for any inaccuracy or the consequences thereof.

By Appointment to Her Majesty Queen Elizabeth II

Manufacturers of Motor Cars and Land-Rovers

By Appointment to Her Majesty Queen Elizabeth the Queen Mother

Suppliers of Motor Cars and Land-Rovers



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Important Information for the Owner

Safety hints

In the interests of road safety, your attention is drawn to the following important factors:

1. The condition of the vehicle. Adherence to the routine maintenance schedules in the Owner's Maintenance Manual is essential in providing safe, dependable and economical motoring.
2. Recognition of traffic and road conditions. Always observe weather and road hazards and drive accordingly.
3. Importance of using the safety harness provided, even for the shortest of journeys.
4. Adjustment of seat to achieve comfortable driving position with full control over car.
5. Correct adjustment of mirror to obtain wide range of rearward vision.
6. Frequent cleaning of windscreen, backlight and windows to achieve clear vision. The use of the Clearalex powder provided, in the windscreen washer reservoir, will be found beneficial in cleaning the windscreen.
7. Maintenance of correct tyre pressures. These should be checked each month, or more frequently when high-speed touring, even to the extent of a daily check.
8. Maintenance of all external lights in good working order and correct setting of headlamp and foglamp beams.

Ignition and car key numbers—Models fitted with the anti-theft ignition coil.

9. For security reasons the key numbers are not stamped on the barrel locks.

A special anti-theft ignition coil is fitted to RH Steering models controlled through the ignition switch, located on the left-hand face of the steering column nacelle, via an armoured flexible cable.

The system is so designed to render the ignition inoperative until the ignition key is replaced in the switch.

Loss of the key for the ignition therefore completely immobilises the car. Owners are advised upon receipt of the car to take the following action:

(a) Record all the key numbers so that in case of loss replacements can be obtained. Key numbers will be found stamped on the Company's nameplate attached to the left-hand front door hinge post.

(b) Keep a spare ignition key away from the car in a safe place, but where it is readily accessible.

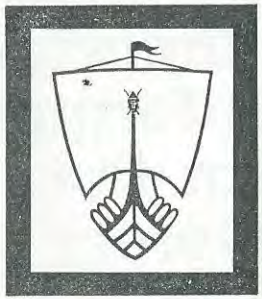
To the Owner

10. Whether you are a novice or veteran, whether you are technically minded or the reverse, The Rover Company, who have built your new Rover 3½ litre, ask you to read the following pages of this Owner's Instruction Manual, including Section Five.

On any correspondence with the Rover Company pertaining to this vehicle the chassis number must be quoted. See Page 41.

The Owner's Maintenance Manual incorporating Free Service and Maintenance Schedules, which accompanies this book, is for the use of those owners who take a personal interest in the maintenance of their car and for other reference purposes.

Touring Advice



Touring advice

The high compression ratio engine in your Rover 3½ litre car has been designed to use 100 Research octane petrol.

This fuel is not always generally obtainable in some European countries.

When your car is to be used in these countries where 100 Research octane petrol is unobtainable, it is essential that adjustments be made to the ignition timing and a restriction imposed on maximum road speeds in each gear to avoid damage being caused to the engine.

Advice in this connection is available on application to The Rover Company Ltd, Technical Service Department, Solihull, Warwickshire, and the following information will be required:

(i) The chassis number of the car.
(ii) The serial number of the engine and compression ratio, which will be found stamped at the rear left of the engine adjacent to the back of the top rocker cover.
(iii) The country or countries in which it is intended to use the car.

Details will be given of the adjustments necessary, which should be carried out by a Rover Distributor or Dealer prior to your departure. Failure to observe this requirement will be taken into consideration should any claim be made under the terms of the Rover Warranty in respect of any engine damage resulting from using fuels other than those of 100 Research octane rating.

Research octane is the currently accepted method of octane rating designation employed throughout the industry.

The importance of always using the correct type sparking plugs cannot be overstressed.

Holiday touring kits of spare parts are available for your car. Full details are obtainable from your Rover Distributor or Dealer.

Up-to-date lists of Rover Continental Dealers are available on application to The Rover Company Ltd, Technical Service Department. Please state country or countries in which it is intended to travel.

You are strongly recommended to obtain from the AA or RAC details of their specialist services for overseas travel, which cover local repairs, spares despatch scheme, vehicle recovery, etc.

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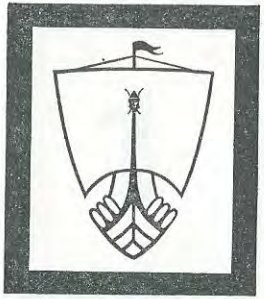

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Chassis number—1

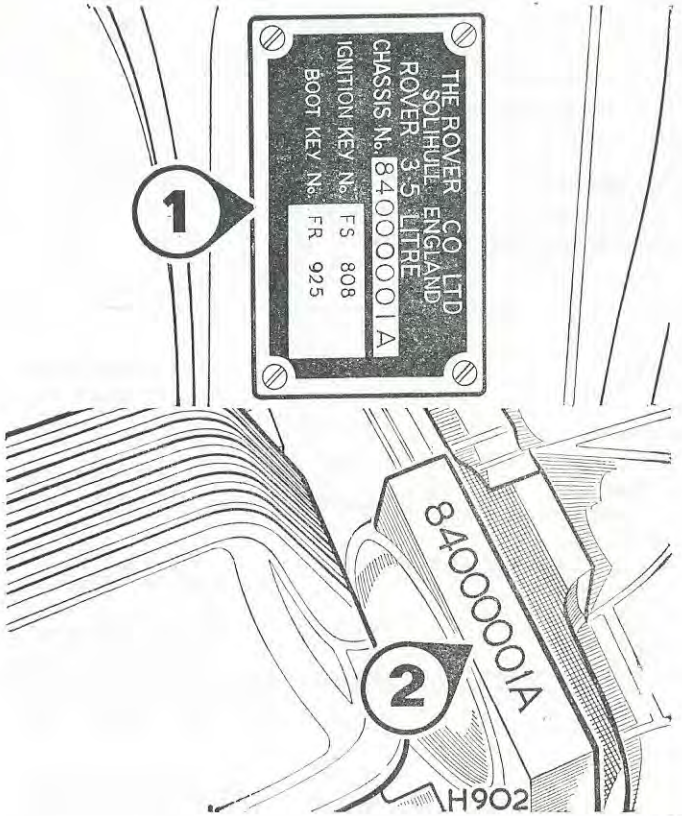
The chassis number will be found on a plate affixed to the left-hand front door pillar. Always quote this number when writing to The Rover Company or your Distributor or Dealer on any matter concerning your car.

Engine number—2

The engine number is at the rear left of the engine adjacent to the back of the top rocker cover. Do not quote this number unless requested.

Important points to remember

1. Read Section Five of this book. Important Warranty information is contained in this section.
2. Use only the recommended lubricants, anti-freeze and fuel of the correct octane rating. See special instructions on page 4 when touring in some European countries.
3. Maintain correct tyre pressures.
4. If sparking plug replacements are required, use only the correct type, as specified in the Data Section of this book.
5. Let a Rover Distributor or Dealer service your Rover 3½ litre and use only genuine Rover parts.



GENERAL DATA

Engine

Type	V8
Bore	88,90 mm (3.500 in.)
Stroke	71,12 mm (2.800 in.)
Cylinder capacity	3528 cc (215 cu in.)
Compression ratio	10.5:1
BHP	184 (137 kw) at 5200 revs/min
Maximum torque	31 mkg (226 lb ft) at 3000 revs/min
Firing order	1, 8, 4, 3, 6, 5, 7, 2
Sparking plugs	Champion L87Y 14 mm with suppressed leads
Sparking plug point gap	0,60 mm (0.025 in.)

Tyres

Size — Avon Turbospeed or Dunlop Roadspeed, 6.70 x 15

Pressures

	Normal loads		*Fully laden*		
Speeds up to 168 kph (105 mph)	Front	Rear	Front	Rear	
kg/cm²	1,8	1,8	1,8	2,2	
lb/sq in.	26	26	26	32	
Bars	1.79	1.79	1.79	2.21	Check with tyres cold
Speeds over 168 kph (105 mph)					
kg/cm²	2,1	2,1	2,1	2,4	
lb/sq in.	30	30	30	34	
Bars	2.07	2.07	2.07	2.34	

For high-speed touring the tyre pressures should be checked more frequently, even to the extent of a daily check.

Capacities

Component	Litres	Imperial unit	US unit
Engine sump oil	4,5	8 pints	9,6 pints
Extra when refilling after fitting new filter	0,5	1 pint	1.2 pints
Automatic transmission oil	8,0	14 pints	17 pints
Rear axle oil	1,75	3 pints	3.5 pints
Power steering unit	1,75 to 1,8	3 to 3.5 pints	3.5 to 4 pints
Fuel tank	63,5	14 gallons	17 gallons
Including a reserve of	7	1.5 gallons	2 gallons
Cooling system	9,0	16 pints	19 pints

Dimensions

Overall length	4,75 m (15 ft 7 in.)
Overall width	1,78 m (5 ft 10.5 in.)
Overall height	
Saloon models	
Overall height, standard suspension	1,55 m (5 ft 1 in.)
Overall height, high suspension	1,56 m (5 ft 1.5 in.)—certain export territories
Coupé models	
Overall height, standard suspension	1,46 m (4 ft 10 in.)
Overall height, high suspension	1,47 m (4 ft 10.5 in.)
Wheelbase	2,80 m (9 ft 2.5 in.)
Track, front	1,39 m (4 ft 7.312 in.)
Track, rear	1,41 m (4 ft 8 in.)
Ground clearance (under silencer)	180 mm (7.125 in.). 194 mm (7.625 in.) for high suspension
Turning circle	12,2 m (40 ft), lock to lock $2\frac{1}{2}$ turns

Weight, with water, oil and 22,5 litres (5 gallons) of fuel

Saloon and Coupé	1.587 kg (3,500 lb)

GENERAL DATA

Replacement headlamp units and bulbs

Headlamp units	
RHD	Lucas No. 59679 Sealed Beam, 12 volt, 75/50 watt
LHD, except North America and France	Lucas No. 410, 12 volt, 45/40 watt Duplo
LHD Sweden	Lucas No. 410, 12 volt, 45/40 watt Duplo
LHD France	Lucas No. 411, 12 volt, 45/40 watt Duplo (yellow)
Fog lamps	Lucas No. 54522163 Sealed Beam, 12 volt, 50 watt
Sidelamps	Lucas No. 989, 12 volt, 6 watt
Stop-tail lamps	Lucas No. 380, 12 volt, 21/6 watt
Direction indicator lamps	Lucas No. 382, 12 volt, 21 watt
Rear number plate lamp	Lucas No. 989, 12 volt, 6 watt
Instrument panel light	Lucas No. 987, 12 volt, 2.2 watt
Warning lights	Lucas No. 987, 12 volt, 2.2 watt
Interior lights	Lucas No. 254, 12 volt, 6 watt festoon
Automatic transmission selector indicator lamp	Lucas No. 256, 12 volt, 3 watt festoon
Speedometer and grouped instruments	Carr Fastener No. 82/036, 12 volt, 1.2 watt
Clock	Lucas No. 281, 12 volt, 2.2 watt
Reverse lamp	Lucas No. 382, 12 volt, 21 watt
Rear luggage boot lamp	Lucas No. 222, 12 volt, 4 watt
Brake fluid level and brake warning light	Lucas No. 281, 12 volt, 2 watt
Bonnet lights, Coupé models	Tex SP No. 209, 12 volt, 6 watt
Cigar lighter illumination	Tex GBP-V-22, 12 volt, 2.2 watt