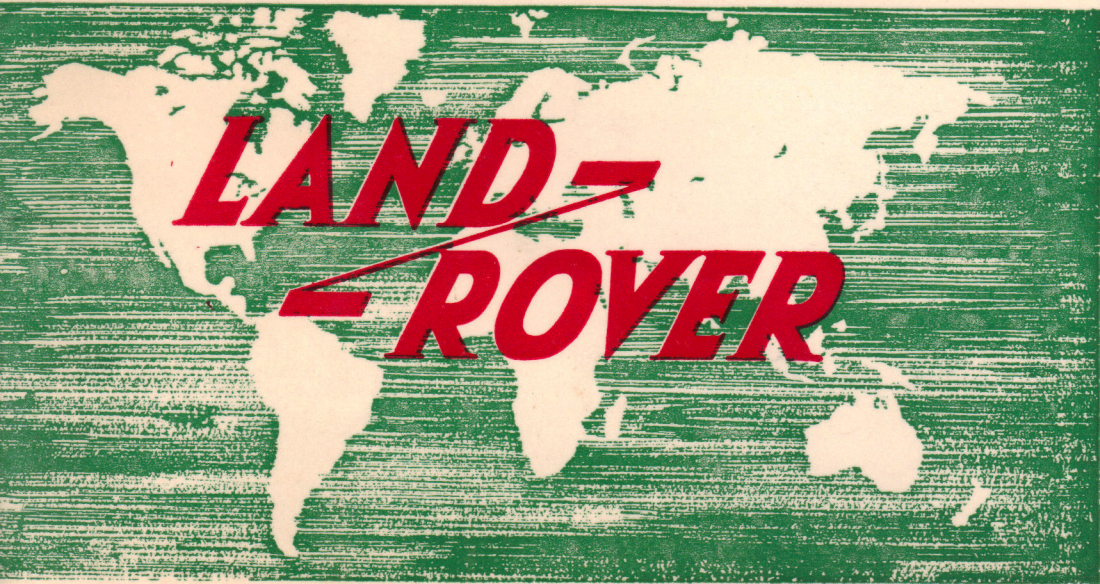


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**Free
Service and
Maintenance
Schedule
Book**

PART No. 4467

THE ROVER COMPANY LTD.

By appointment
to Her Majesty
Queen Elizabeth II



The Rover Company Ltd

Manufacturers
of
Land-Rovers

SOLIHULL . WARWICKSHIRE . ENGLAND

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Part No. 4467

MAINTENANCE ATTENTION AT 3,000 MILES (5,000 KM)

TO LAND-ROVER OWNERS

This book is provided for the use of owners and users of Land-Rovers as an aid to good service.

It contains in convenient form full details of the maintenance work which should be carried out at or around specified various stages in the life of the vehicle.

The regular carrying out of these scheduled services is an extremely important factor in maintaining the value of the vehicle and contributing to its reliability.

Your attention is particularly drawn to the need for more frequent maintenance attention to certain units, as shown on the sheets that follow, when the Land-Rover is used under arduous conditions or when wading.

Maintenance attention information for items of optional equipment, that is, power take-off, hydraulic winch, etc., will be found in the Owner's Manual and also in the Optional Equipment Book, Part No. 4437, copies of which can be obtained free of charge from: The Rover Company Limited, Technical Service Department, Solihull, Warwickshire, England.

In addition to the regular maintenance schedules, the book provides details of the check to be carried out prior to delivery of the new vehicle and of the work to be done at the Free

Service Inspection. Whilst this latter service is normally carried out by the Distributor or Dealer selling the vehicle, arrangements can, where required, be made by the vendor for any other Rover Distributor or Dealer to carry out the work.

Provision has been made in the book for a certifying signature that the various services have been carried out so that there is a permanent record of these having been completed.

Whilst it is intended that this book should be used in conjunction with the Owner's Handbook, particulars are none the less included as to recommended lubricants and other important maintenance data.

The attention of all owners is drawn to the importance of ensuring that in repair, overhaul or maintenance work only Original Rover parts or Rover Approved parts are used.

It will be noted that certain maintenance work which is required from time to time, has been omitted from these schedules. This will include such work as decarbonising, brake relining, etc., the need for which will vary very much according to circumstances, and Rover Distributors or Dealers should be consulted about such points at the time other service work is being carried out.

SUMMARY OF MAINTENANCE ATTENTION

Check tyre pressures and inspect tyre treads monthly.
Check engine oil level every 750 miles (1.000 km).

AT 1,500 MILES (2.500 KM), or 70 gallons (315 litres) petrol, or
50 gallons (225 litres) diesel, or 60 hours.
Free service.

AT 3,000 MILES (5.000 KM), or 140 gallons (630 litres) petrol, or
100 gallons (450 litres) diesel, or 120 hours.
Drain and refill engine.
Empty, clean and refill oil bath air cleaner.
Check carburettor slow running.
Lubricate and clean distributor.
Check distributor contact points.
Check water level in radiator.
Check gearbox and transfer box oil level.
Drain flywheel housing, when drain plug is fitted.
Check fluid level in clutch reservoir.
Check battery acid level.

Check oil level in differentials.
Check oil level in front swivel pin housings.
Check oil level in steering box.
Check rubber boots on steering joints.
Check fluid level in brake reservoir.
Check, and if necessary, adjust brake shoes.
Change round all road wheels.
Check tyre pressures and inspect tyre treads.
Lubricate joints and journals on all propeller shafts and
fan drive shaft on Forward Control models as applicable.
Road test.
Clean controls, handles, steering wheel, etc.
See also Road Test.

AT 6,000 MILES (10.000 KM), or 280 gallons (1.260 litres) petrol,
or 200 gallons (900 litres) diesel, or 240 hours.
As 3,000 miles (5.000 km) plus
Renew external oil filter element.
Clean breather filters.
Check or replace sparking plugs.
Check tappet clearance.
Check and adjust fan belt.
Clean, grease and tighten battery terminals.
Check headlamp beam setting.

SUMMARY OF MAINTENANCE ATTENTION—*continued*

AT 9,000 MILES (15,000 KM), or 420 gallons (1,890 litres) petrol, or 300 gallons (1,350 litres) diesel, or 360 hours.

As 3,000 miles (5,000 km) plus

Diesel models—Check, and if necessary, adjust injectors.

Also, instead of checking levels,

Drain and refill gearbox and transfer box.

Drain and refill differentials.

Drain and refill front swivel pin housings.

AT 12,000 MILES (20,000 KM), or 560 gallons (2,520 litres) petrol, or 400 gallons (1,800 litres) diesel, or 480 hours.

As 3,000 miles (5,000 km) and 6,000 miles (10,000 km) plus

Lubricate dynamo.

Petrol models—Clean sediment bowl.

Petrol models—Clean carburetter filter.

Diesel models—With one filter on dash—Change fuel filter element.

With two filters on dash—Change first fuel filter element, that is, filter fed from fuel pump.

Clean sediment bowl.

Oil throttle linkage joints, door locks and hinges, bonnet prop rod, etc.

Check all body bolts.

Check 'U' bolts and spring clips.

Check securing bolts on all propeller shafts and fan drive shaft on Forward Control models.

Oil throttle linkage joints, door locks and hinges, bonnet prop rod, etc.

AT 15,000 MILES (25,000 KM), or 700 gallons (3,150 litres) petrol, or 500 gallons (2,250 litres) diesel, or 600 hours.

As 3,000 miles (5,000 km).

AT 18,000 MILES (30,000 KM), or 840 gallons (3,780 litres) petrol, or 600 gallons (2,700 litres) diesel, or 720 hours.

As 3,000 miles (5,000 km), 6,000 miles (10,000 km) and 9,000 miles (15,000 km).

AT 21,000 MILES (35,000 KM), or 980 gallons (4,410 litres) petrol, 700 gallons (3,150 litres) diesel, or 840 hours.

As 3,000 miles (5,000 km).

AT 24,000 MILES (40,000 KM), or 1,120 gallons (5,040 litres) petrol, or 800 gallons (3,600 litres) diesel, or 960 hours.

As 3,000 miles (5,000 km), 6,000 miles (10,000 km) and 12,000 miles (20,000 km).

AT 27,000 MILES (45,000 KM), or 1,260 gallons (5,670 litres) petrol, or 900 gallons (4,050 litres) diesel, or 1,080 hours.

As 3,000 miles (5,000 km) and 9,000 miles (15,000 km).

AT 30,000 MILES (50,000 KM), or 1,400 gallons (6,300 litres) petrol, or 1,000 gallons (4,500 litres) diesel, or 1,200 hours.

As 3,000 miles (5,000 km) and 6,000 miles (10,000 km).

AT 33,000 MILES (55,000 KM), or 1,540 gallons (6,930 litres) petrol, or 1,100 gallons (4,950 litres) diesel, or 1,320 hours.

As 3,000 miles (5,000 km).

SUMMARY OF MAINTENANCE ATTENTION—*continued*

AT 36,000 MILES (60.000 KM), or 1,680 gallons (7.560 litres) petrol, or 1,200 gallons (5.400 litres) diesel, or 1,440 hours.

As 3,000 miles (5.000 km), 6,000 miles (10.000 km), 9,000 miles (15.000 km) and 12,000 miles (20.000 km) plus

Diesel models—With two filters on dash—Change second fuel filter element, that is, filter which feeds to distributor pump.

AT 39,000 MILES (65.000 KM), or 1,820 gallons (8.190 litres) petrol, or 1,300 gallons (5.850 litres) diesel, or 1,560 hours.

As 3,000 miles (5.000 km) plus

Repack front propeller shaft sliding joint with grease as applicable.

AT 42,000 MILES (70.000 KM), or 1,960 gallons (8.820 litres) petrol, or 1,400 gallons (6.300 litres) diesel, or 1,680 hours.

As 3,000 miles (5.000 km) and 6,000 miles (10.000 km).

AT 45,000 MILES (75.000 KM), or 2,100 gallons (9.450 litres) petrol, or 1,500 gallons (6.750 litres) diesel, or 1,800 hours.

As 3,000 miles (5.000 km) and 9,000 miles (15.000 km).

AT 48,000 MILES (80.000 KM), or 2,240 gallons (10.080 litres) petrol, or 1,600 gallons (7.200 litres) diesel, or 1,920 hours.

As 3,000 miles (5.000 km), 6,000 miles (10.000 km) and 12,000 miles (20.000 km).

AT 51,000 MILES (85.000 KM), or 2,300 gallons (10.710 litres) petrol, or 1,700 gallons (7.650 litres) diesel, or 2,040 hours.

As 3,000 miles (5.000 km).

AT 54,000 MILES (90.000 KM), or 2,520 gallons (11.340 litres) petrol, or 1,800 gallons (8.100 litres) diesel, or 2,160 hours.

As 3,000 miles (5.000 km), 6,000 miles (10.000 km) and 9,000 miles (15.000 km).

MAINTENANCE ATTENTION UNDER NORMAL ROAD CONDITIONS AT 9,000 MILES (15.000 KM)

MAINTENANCE ATTENTION AT 9,000 MILES (15.000 KM)

Carried out by
Rover Distributor or Dealer

NAME

ADDRESS

We certify that the 9,000 miles (15,000 km) maintenance attention has been completed.

Signature

Mileage

Km

Fuel Petrol/Diesel

Gallons

Litres

Hours

Date

Based on fuel consumption { Petrol .. 420 gallons (1.890 litres)
Diesel .. 300 gallons (1.350 litres)
Hours—Petrol and Diesel .. 360

For capacities, recommended lubricants and tyre pressures see end of book

Owner's signature authorising
work detailed below to be carried out.

Engine

Check oil level daily or weekly depending on operating conditions.

Clean air cleaner daily or twice daily under really severe conditions of dust or when wading.

Check water level daily or weekly depending on operating conditions.

Gearbox and transfer box
Check oil level daily or weekly when operating under severe stationary working conditions.

Drain and refill gear-box and transfer box monthly when operating under severe wading conditions.

Drain and refill engine sump.

Empty, clean and refill oil bath air cleaner.

Diesel models—Check and if necessary adjust injectors.

Petrol models—Check carburettor slow running.

Petrol models—Lubricate and clean distributor.

Petrol models—Check distributor contact points. Gap .014-.016 (0.30-0.40 mm).

Check water level in radiator (anti-freeze in winter) $\frac{1}{2}$ - $\frac{3}{4}$ in. (12-19 mm) below bottom of filler neck.

Drain and refill gearbox and transfer box.

Drain flywheel housing when drain plug is fitted for wading.

Clutch

Check fluid in reservoir, top up if necessary so that fluid is just showing in bottom of filter.

Electrical

Check battery acid level.

Check battery acid level weekly when operating under severe conditions.

CONTINUED OVERLEAF

MAINTENANCE ATTENTION AT 9,000 MILES (15.000 KM)

MAINTENANCE ATTENTION AT 9,000 MILES (15,000 KM)—*continued*

Axles, front and rear †

Drain and refill axles and swivel housings monthly when operating under severe wading conditions.

Drain and refill differentials.

Drain and refill front swivel pin housings.

Steering box and ball joints †

Check rubber boots daily when operating under arduous conditions.

Check oil level, top up if necessary to bottom of filler plug hole.

Check that rubber boots on steering ball joints are not dislodged or damaged.

Brakes †

Clean out brake drums weekly when wading in deep muddy conditions.

Check fluid level in reservoir, top up if necessary so that fluid is just showing in bottom of filter.

Check and if necessary adjust brake shoes.

See also Road Test.

Wheels and tyres

Check tyre pressures monthly.

Change round all road wheels

Check tyre pressures and inspect tyre treads.

Propeller shafts, front and rear †

Lubricate sliding joints daily under really severe conditions or when wading.

*Lubricate sliding joints and journals as applicable.

*Applies also to fan drive shaft on Forward Control models. This should receive regular attention under stationary working conditions.

Road test

Give vehicle a thorough road test and carry out any further adjustments required including brakes, throttle linkage, etc.

Check operation of all lights and instruments.

After test, check for oil, fuel and fluid leaks at all plugs, flanges, joints and unions.

Check brake pipes and hoses for chafing and looseness. Report any defects.

Cleaning

Wipe clean all controls, handles, etc. Clean windscreen and lights.

† Items marked with a dagger (†) do not require such frequent maintenance attention when the vehicle is used under stationary working conditions.

TYRE PRESSURES

			Normal				Emergency soft			
			Load under 550 lb (250 kg)		Load over 550 lb (250 kg)		Load under 550 lb (250 kg)		Load over 550 lb (250 kg)	
			Front	Rear	Front	Rear	Front	Rear	Front	Rear
88 models Avon or Dunlop 6.00 x 16.00	lb/sq.in. kg/cm ²		25 1,7	25 1,7	25 1,7	30 2,1	15 1,0	15 1,0	15 1,0	20 1,4
Avon or Dunlop 7.00 x 16.00	lb/sq.in. kg/cm ²		25 1,7	25 1,7	25 1,7	30 2,1	15 1,0	15 1,0	15 1,0	20 1,4
Avon or Dunlop 7.50 x 16.00	lb/sq.in. kg/cm ²		25 1,7	25 1,7	25 1,7	30 2,1	15 1,0	15 1,0	15 1,0	20 1,4
Michelin XY 7.50 x 16.00	lb/sq.in. kg/cm ²		15 1,0	15 1,0	15 1,0	22 1,5	10 0,7	10 0,7	10 0,7	16 1,1
109 models except Forward Control Avon or Dunlop 7.50 x 16.00	lb/sq.in. kg/cm ²		25 1,7	25 1,7	25 1,7	36 2,5	12 0,8	12 0,8	15 1,0	24 1,6
Michelin XY 7.50 x 16.00	lb/sq.in. kg/cm ²		20 1,4	20 1,4	20 1,4	35 2,4	15 1,0	15 1,0	15 1,0	26 1,75
109 Forward Control models Avon or Dunlop 9.00 x 16.00	lb/sq.in. kg/cm ²		28 2,0	18 1,3	35 2,4	30 2,1	12 0,8	12 0,8	12 0,8	15 1,0

Pressures should be checked and adjusted monthly, paying attention to the following points:

- Whenever possible, check with the tyres cold, as the pressure is about 2 lb/sq.in. (0,1 kg/cm²) higher at running temperature.
- Always replace the valve caps, as they form a positive seal on the valves.
- Any unusual pressure loss (in excess of 1 to 3 lb/sq.in. (0,05 to 0,20 kg/cm²) per month) should be investigated and corrected.
- Always check the spare wheel, so that it is ready for use at any time.

RECOMMENDED LUBRICANTS AND FLUIDS

The recommended lubricants on this page apply to temperate climates where operational temperatures may vary between approximately 10°F (-12°C) and 90°F (32°C). Information on oil recommendations for use under extreme winter or tropical conditions can be obtained from The Rover Co Ltd, Technical Service Department, or the local Rover Distributor or Dealer.

COMPONENTS	S.A.E.	B.P.	CASTROL	DUCKHAM'S	ESSO	MOBIL	REGENT TEXACO/ CALTEX	SHELL
PETROL MODELS ENGINE, AIR CLEANER AND GOVERNOR	20W	Energol SAE 20W	†Castrol XL	†Duckham's Q20-50 Motor Oil	Esso Extra Motor Oil 20W/30	Mobiloil Arctic	Advanced Havoline 20/20W	†Shell Super Oil
DIESEL MODELS ENGINE AND AIR CLEANER	20W	Energol Diesel D20W	Castrol CR20	NOL Diesel Engine Oil 20	Essofleet HD20	Mobiloil Arctic	RPM Delo Special 20	Rotella 20/20W
GEARBOX AND TRANSFER BOX *DIFFERENTIALS AND SWIVEL PIN HOUSINGS STEERING BOX STEERING RELAY UNIT REAR POWER TAKE-OFF, PULLEY UNIT AND CAPSTAN WINCH HYDRAULIC WINCH GEARBOX	90EP	Energol SAE 90 EP	Castrol Hypoy	Duckham's Hypoid 90	Esso Gear Oil GP 90/140	Mobilube GX 90	Universal Thuban 90	Spirax 90 EP
LUBRICATION NIPPLES	—	Energol L2	Castrol LM	Duckham's LB10 Grease	Esso Multi- purpose Grease H	Mobilgrease MP or Mobilgrease Special	Marfak Multi- purpose 2	Retinax A
HYDRAULIC WINCH SUPPLY TANK	—	Energol SAE 20W or Energol HL65	Hyspin 70 or Castrolite	—	Tereso 43 or Essofleet HD10W	Mobiloil Special or Delvex Special	Advanced Havoline 20/20W	Shell X100 20W or Shell Tellus Oil 27
BRAKE AND CLUTCH FLUID	Castrol/Girling Brake and Clutch Fluid "Crimson"							
ANTI-FREEZE SOLUTION	Any high quality Glycol-base solution							

*Rear differential, limited slip type: Shell Limited Slip Differential Oil S 6721A or Mobilube 46. Available in the UK market.
Pure Oil TSS 90, Texaco 3450 or Mobil 46. Available in the North America Dollar area.

Lubricants marked with a † are multigrade oils suitable for all temperature ranges.

CAPACITIES

Components											Imperial unit	US unit	Litres
Engine sump oil, 4 cylinder	....	....	....	....	....	....	....	....	....	....	11 pints	13 pints	6,0
Engine sump oil, 6 cylinder	....	....	....	....	....	....	....	....	....	....	10 pints	12 pints	5,75
Extra when refilling after fitting new filter, early 4 cylinder models	....	....	....	....	....	....	....	....	....	....	3 pints	3 $\frac{1}{2}$ pints	1,75
Extra when refilling after fitting new filter, late 4 cylinder models	....	....	....	....	....	....	....	....	....	....	2 $\frac{1}{4}$ pints	2 $\frac{3}{8}$ pints	1,5
Extra when refilling after fitting new filter, 6 cylinder Petrol models	....	....	....	....	....	....	....	....	....	....	1 pint	1.2 pints	0,5
Air cleaner oil, 4 cylinder	....	....	....	....	....	....	....	....	....	....	1 $\frac{1}{2}$ pints	1.8 pints	0,85
Air cleaner oil, 6 cylinder	....	....	....	....	....	....	....	....	....	....	1 pint	1.2 pints	0,5
Main gearbox oil	....	....	....	....	....	....	....	....	....	....	2 $\frac{1}{2}$ pints	3 pints	1,5
Transfer box oil	....	....	....	....	....	....	....	....	....	....	4 $\frac{1}{2}$ pints	5 $\frac{1}{2}$ pints	2,5
Rear differential	} Basic	....	....	....	....	....	....	....	....	....	3 pints	3 $\frac{1}{2}$ pints	1,75
Front differential		....	....	....	....	....	....	....	....	....	3 pints	3 $\frac{1}{2}$ pints	1,75
Rear differential	} ENV type	....	....	....	....	....	....	....	....	....	2 $\frac{1}{8}$ pints	2 $\frac{1}{2}$ pints	1,2
Front differential		2 $\frac{3}{8}$ pints	3.1 pints	1,4
Rear differential, limited slip type....	....	....	....	....	....	....	....	....	....	....	3 pints	3 $\frac{1}{2}$ pints	1,75
Swivel pin housing oil (each)	....	....	....	....	....	....	....	....	....	....	1 pint	1.2 pints	0,5
Fuel tank, except 109 Station Wagon and Forward Control	....	....	....	....	....	....	....	....	....	....	10 gallons	12 gallons	45
Fuel tank, 109 Station Wagon and Forward Control	....	....	....	....	....	....	....	....	....	....	16 gallons	19 gallons	73
Cooling system, Petrol models, except Forward Control	....	....	....	....	....	....	....	....	....	....	18 pints	21 $\frac{1}{2}$ pints	10,25
Cooling system, Forward Control models, 4 cylinder	....	....	....	....	....	....	....	....	....	....	19 pints	22 $\frac{1}{2}$ pints	10,8
Cooling system, Forward Control models, 6 cylinder	23 pints	27 $\frac{3}{4}$ pints	13
Cooling system, Diesel models	17 $\frac{1}{2}$ pints	21 pints	10,0

By Appointment to
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of Motor Cars
and Land-Rovers

The Rover Company Limited