

**LUBRICATION AND
MAINTENANCE**

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dated 8.5.56.

FOR INFORMATION.

PERIODIC LUBRICATION AND ADJUSTMENT.

SCHEDULES "A", "B" & "C".

GENERAL:

For the purpose of assisting Retailers with the maintenance of Rolls-Royce Silver Cloud and Bentley 'S' Type cars in their areas, a system of periodic lubrication and adjustment on a fixed mileage basis has been evolved.

It is recommended that Retailers institute this as a normal maintenance routine and that appropriate arrangements be made with any owners wishing to avail themselves of this service.

It will be noticed that this system is a consolidation of the various maintenance routines into three sections or schedules, and as such, does not in any way supersede the instructions given in the handbook to owners desirous of carrying out their own maintenance inspections.

The three Schedules "A", "B" and "C" cover the whole vehicle and operate in the following manner:-

SCHEDULE "A":- To be carried out at the conclusion of every 5,000 miles, covers all the items associated with engine, chassis and coachwork requiring lubrication, clearing and adjustment.

SCHEDULE "B":- To be carried out at the conclusion of every 10,000 miles. In addition to the repetition of the whole of Schedule "A", it covers the complete change of lubricant of all the main components, together with the inspection and rectification of those items not included at the lower mileage.

SCHEDULE "C":- To be carried out at the conclusion of every 20,000 miles. This Schedule repeats Schedule "B" and principally covers change of lubricant for the automatic gearbox, rear axle and propeller shaft ball and trunnion joint.

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SCHEDULE "A".

EVERY 5,000 MILES.

LUBRICATION:

1. Ignition distributor shaft, contact breaker pivots and cam.
2. Gear range selector controls and accelerator linkage.
3. Brake system pivot pins and bearings.

OIL LEVEL CHECKS:

1. Steering box.
2. Chassis lubrication tank.
3. Clean carburettor air valves and check oil level in hydraulic damper chambers.
4. Brake master cylinder reservoir.
5. Automatic gearbox.
6. Rear axle.
7. Drain and refill crankcase. Renew oil filter element.
8. Power steering pump. Check oil level (when fitted).

ENGINE AND CHASSIS ADJUSTMENTS:

1. Check coolant level and top up if required. (when climatic conditions warrant, check specific gravity of coolant and advise owner if additional anti-freeze is required).
2. Check fan belt tension. Adjust if necessary.
3. Check and reset inlet tappet clearances.
4. Clean sparking plugs. Check and reset gaps.
5. Clean contact breaker points. Reset gaps, check and reset ignition timing.
6. Check functioning of fuel pumps (disconnect electrical leads and check each pump independently).
7. Adjust rear brakes and servo.
8. Check for excessive leakage at any point in the central chassis lubrication system.
9. Check and adjust tyre pressures.
10. Clean oil bath air filter element, if fitted, and refill with oil.
11. Clean 'Vokes' air filter element (Continental models).

ELECTRICAL SYSTEM:

1. Check battery acid level. Top up with distilled water if required. Clean, re-vaseline and tighten battery terminals.
2. Check complete electrical system for correct functioning.

ROAD TEST:

1. Test the car on the road.

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SCHEDULE "B".

EVERY 10,000 MILES.

1. Repeat Schedule "A".
2. Grease propeller shaft universal joints (2 points) and sliding joint (1 point).
3. Check starter motor reduction gear oil level and refill if required.
4. Check oil level in front and rear shock dampers.
5. Clean carburetter air filter element.
6. Clean the fuel strainers.
 - (i) The main fuel filter on the chassis cross member just forward of the petrol tank.
 - (ii) The filter gauzes in each carburetter float chamber feed connection.
 - (iii) The filter gauzes in the petrol pumps.
7. Change filter in power steering pump reservoir (where fitted).

SCHEDULE "C".

EVERY 20,000 MILES.

1. Repeat Schedule "B".
2. Drain and refill the automatic gearbox. Clean oil breather in top of dipstick.
3. Drain and refill rear axle.
4. Clean and re-pack front propeller shaft ball and trunnion joint with $1\frac{1}{2}$ ozs. of Mobilgrease No.2.
5. Remove front drum and inspect brake linings for wear. (Lining face should not be less than $1/32"$ (.8 mm) above rivets.)
6. Renew oil filter pad in chassis lubrication pump.
7. Renew 'Vokes' air filter element (Continental models).

FOR INFORMATION.

ENGINE LUBRICATION OILS.

For some time now a type of oil possessing advantageous viscosity/temperature characteristics has been offered to the public.

The benefits to be obtained by the use of this engine oil have been widely publicised, and it is not necessary to make any further comment in this Bulletin. However, in line with general practice, we were not prepared to approve the use of this type of oil in our engines until extensive testing had been carried out.

As a result of these tests, following close liaison with the Oil Company concerned and in the light of our experience, Rolls-Royce Limited have now given approval to the use of:

B.P. ENERCOL VISCOSTATIC ENGINE OIL

as an alternative to the officially Recommended Oils.

FOR INFORMATION

CHASSIS LUBRICATION

To improve lubrication of the steering joints and front suspension, it has been decided to change to a Hypoid type oil and to discontinue the use of engine oil in the Chassis Lubrication System.

Hypoid oils provide more effective lubrication in this application and so increase the life of effected parts.

When carrying out the next Schedule 'A' on any car, Retailers should empty the oil from the chassis lubrication pump and replace with one of the oils as listed below. A suitable hand type syringe will assist removal of the existing oil. Thereafter the Hypoid type oil should be used.

Will Retailers please advise owners and chauffeurs of the necessity to depress the oil pump pedal four times every 200 miles. The first stroke of the pump may be not be effective, due to the presence of air in the system, and the subsequent necessity of priming to ensure adequate lubrication of all points.

It is suggested that the pedal be depressed four times every even 200 miles as registered on the speedometer.

The following oils only are recommended :-

Castrol Hypoy SAE 90

Energol EP SAE 90

Spirax EP SAE 90

Mobilube GX SAE 90