

SECTION D3—PERIODIC LUBRICATION AND ADJUSTMENT SCHEDULES

A system of periodic lubrication and maintenance has been established to assist retailers with the maintenance of Rolls-Royce and Bentley cars in their area.

Retailers are advised to institute this system as a normal routine and to make appropriate

arrangements with any owners wishing to avail themselves of this service.

Should some owners desire to carry out their own maintenance inspections, it should be noted that this system does not in any way supersede the instructions given in Owners' Handbooks.

The following schedules cover the whole car.

SILVER CLOUD, BENTLEY SI AND BENTLEY CONTINENTAL SI

Schedule A

To be carried out every 5000 miles, covers all the items associated with the engine, chassis and coachwork requiring lubrication, cleaning and adjustment.

Schedule B

To be carried out 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 every 20,000 miles. This schedule repeats Schedule B and principally covers the change of lubricant for the automatic gearbox, rear axle and propeller shaft ball and trunnion joint.

SCHEDULE A**EVERY 5000 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 carburetter air valves and check oil level in hydraulic damper chambers.
4. Brake master cylinder reservoirs.
5. Automatic gearbox. (Check with engine running as described in Automatic Gearbox Manual).
6. Rear axle.
7. Drain and re-fill the crankcase sump. Renew the oil filter element.
8. Power steering pump (if fitted).

Engine and Chassis Adjustments

1. Check the coolant level and top-up if required. (Check the specific gravity of the coolant and advise the owner if additional anti-freeze is required). Maintain anti-freeze in the system all the year round.
2. Check the tension of the driving belts and adjust if necessary. If individual tension is uneven a new **matched pair** of belts should be fitted.
3. Check and re-set the inlet clearances.
4. Clean the sparking plugs. Check and re-set the gaps.
5. Clean the contact breaker points. Re-set the gaps, check and re-set the ignition timing.

6. Check the functioning of the fuel pumps (disconnect the electrical leads and check each pump independently).
7. Adjust the rear brakes.
8. Check for excessive leakage at any point in the central chassis lubrication system.
9. Check and adjust the tyre pressures.
10. Clean the oil bath air filter element (if fitted) and re-fill with oil.
11. Clean the 'Vokes' air filter element (Continental models).
12. Inspect the condition of the propeller shaft sealing boot. Check the torque tightness of the four bolts securing the universal joint to the gearbox output flange.

Electrical System

1. Check the battery electrolyte level. Top-up with distilled water if required. Clean, apply a coat of petroleum jelly and tighten the battery terminals.
2. Check the complete electrical system for correct functioning.

Road Test

1. Test the car on the road.

SCHEDULE B EVERY 10,000 MILES

1. Repeat Schedule A.
2. Lubricate the three grease nipples on the rear propeller shaft.
3. Check the starter motor reduction gear oil level and re-fill if required.
4. Check the oil level in the front and rear shock dampers.
5. Remove the carburetter air filter element and wash in petrol or paraffin and then oil with engine oil. Allow to thoroughly drain before re-fitting.
6. Clean the fuel strainers.
 - (i) The main fuel filter on the chassis cross member just forward of the fuel tank.
 - (ii) The filter gauzes in each carburetter float chamber feed connection.
 - (iii) The filter gauzes in the fuel pumps.
7. Change the filter in the power steering pump reservoir (where fitted).

8. Check and if necessary adjust the brake servo.
9. Grease the master cylinder balance lever bearing (where applicable).
10. On cars fitted with Rolls-Royce Car Interior Cooling System, grease the coolant pump bearing using Retinax 'A' or similar type of grease.
11. Grease the steering points using Molyspring Lubricant 204G, or a good quality grease containing 20 per cent molybdenum disulphide.

SCHEDULE C

EVERY 20,000 MILES

1. Repeat Schedule B.
2. Drain and re-fill the automatic gearbox. Clean the oil breather in the top of the dipstick.
3. Drain and re-fill the rear axle.
4. Dismantle the front ball and trunnion joint on the propeller shaft, inspect and re-fill with 1½ oz. of Mobilgrease No. 2. This should not be carried out if the joint shows no sign of leakage.
5. Remove the front drums and inspect the brake linings for wear. (Lining face should not be less than ⅜ in. (0.8 mm.) above the rivets).
6. Renew the oil filter pad in the chassis lubrication pump.
7. Renew the 'Vokes' air filter element (Continental models).

EVERY 60,000 MILES

1. Examine the wheel bearings, if they are in a serviceable condition, re-pack with the correct grease.
2. Examine the propeller shaft centre bearing and re-pack with the correct grease.

ANNUALLY

1. Drain and flush the cooling system; re-fill with the correct anti-freeze mixture.

SPECIAL PRECAUTIONS

Should the car be operating in a sustained temperature of 0 deg. F. and below:

1. Drain the crankcase sump when thoroughly warm and re-fill with SAE 10 oil; the carburetter air valve guide should also be drained and re-filled with this oil.