

SECTION D4—PERIODIC LUBRICATION AND ADJUSTMENT SCHEDULES

SILVER CLOUD II, BENTLEY S2, BENTLEY CONTINENTAL S2 AND PHANTOM V

3000 Mile Schedule

To be carried out every 3000 miles — covers engine oil change, oil level checks, engine and chassis adjustments, electrical system checks and road test.

6000 Mile Schedule

To be carried out every 6000 miles — covers all the items associated with engine, chassis and coachwork requiring lubrication, cleaning and adjustment.

12,000 Mile Schedule

To be carried out every 12,000 miles. In addition to the repetition of the whole of the 6000 Mile Schedule, 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.

24,000 Mile Schedule

To be carried out every 24,000 miles. This schedule repeats the 12,000 Mile Schedule and principally covers the change of lubricant for the automatic gearbox, rear axle and the propeller shaft ball and trunnion joint.

12 Month Schedule

To be carried out every 12 months, covers the change of anti-freeze and checking of refrigeration system if fitted.

24 Month Schedule

To be carried out every 24 months, repeat 12 Month Schedule which covers the cooling system.

3000 MILE SCHEDULE**Lubrication**

1. Drain and re-fill the engine crankcase sump.
2. Carburettor air valve damper.
3. Steering pump reservoir.
4. Brake fluid reservoir.
5. Check the automatic gearbox oil level (check with the engine running as described in Automatic Gearbox Manual).

Engine and Chassis Adjustment

1. Check the coolant level (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 belt tension is uneven a new **matched pair** of belts should be fitted.
3. Check and if necessary adjust the rear brakes and servo.
4. Check and adjust the tyre pressures (including spare).
5. Check and top-up the windscreen washer reservoir. Use only distilled water and Rolls-Royce Windscreen Washer Fluid.

Electrical System Checks

1. Check the level of the battery electrolyte and top-up if necessary.

Road Test

1. Test the car on the road.

6000 MILE SCHEDULE

1. Repeat the 3000 Mile Schedule.
2. Renew oil filter element.
3. Clean the carburettor air valve dampers.
4. Clean the contact breaker points, re-set the gaps, check and if necessary re-set the engine timing.
5. Check the tension of the belts driving the engine auxiliaries and adjust if necessary.
6. Lubricate the ignition distributor automatic advance and retard mechanism, the shaft bearings, the governor spindle, the contact breaker rocker arm pivots and cam.
7. Clean the air filter element — wire mesh type only.
8. Clean the sparking plugs and re-set the gaps as recommended.
9. Lubricate the gear range selector controls and the accelerator linkage.

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10. Lubricate the brake system pivot pins and bearings.
11. Change road wheels round and balance.
12. Remove the brake drums and inspect the brake linings for wear. The lining faces should not be less than 0.0625 in. (1.6 mm.) above the rivets. Check the rear brake adjustment.
13. Check that all lamps, direction indicators, and all instruments are operating satisfactorily.
14. Check that the heater controls are operating satisfactorily.
13. Clean, re-vaseline and tighten the battery terminals.
14. Test the car on the road.

24,000 MILE SCHEDULE

1. Repeat the 12,000 Mile Schedule.
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. Check the oil level in the transfer steering box and top-up if necessary.
5. Clean the filter gauzes in the engine breathing tube (on cars fitted with enclosed crankcase breathing system).
6. Renew the filter element in the steering pump reservoir.
7. Release but do not remove the fuel tank drain plug to allow any accumulated water to escape.
8. Inspect the generator commutator and brushes for wear, also check the brushes for freedom in their holders.
9. On fuel pumps fitted with the additional condensers, the contact points should be renewed.

12,000 MILE SCHEDULE

1. Repeat the 6000 Mile Schedule.

Oil Level Checks

1. Check the front and rear shock dampers for signs of leakage. If apparent, inspect the oil level and top-up if necessary.
2. Check the rear axle and, if necessary, top-up with oil.
3. Renew the sparking plugs.
4. Renew the carburetter air filter element — this only applies where a paper type air filter element is fitted.
5. Clean the filter gauzes in the carburetter float chamber feed connections.
6. Lubricate the grease nipple on the master cylinder balance lever pivot.
7. Lubricate the thirteen grease nipples on the steering mechanism.
8. Lubricate the eight grease nipples on the front suspension.
9. Lubricate the three grease nipples on the rear propeller shaft.
10. Clean out the main fuel line filter and filter bowl and the filter gauzes in the fuel pump.
11. Clean the electrical contact points and check the functioning of the fuel pumps (each pump should be tested independently).
12. Clean the nylon filter gauze (recirculating heater system under the front right-hand seat).

12 MONTH SCHEDULE

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

Refrigerated Cars Only

1. Check that the refrigeration system is functioning correctly and, if necessary, top-up with refrigerant. If there is a loss of refrigerant, check for leaks (see separate instruction book).
2. Check the level of the oil in the compressor (see separate instruction book).
3. Clean the air filter gauze fitted over the evaporator unit (Boot Unit only).

24 MONTH SCHEDULE

1. Repeat the 12 Month Schedule.
2. Renew all the heater and coolant hoses.

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