

This Service Bulletin
cancels all previous
Bulletins numbered S2/D1

No. S2/D1

FOR INFORMATION

PERIODIC LUBRICATION AND MAINTENANCE SCHEDULES

FOR S2 CARS

The following periodic service schedules have been drawn up to assist Retailers and Service Personnel with the maintenance of Rolls-Royce and Bentley motor cars.

These schedules should be adopted by Retailers as a standard service procedure. Retailers should also endeavour to ensure that cars domiciled in their areas are serviced at the stated mileage intervals and to make the appropriate arrangements with Owners who wish to take advantage of this service procedure.

Briefly the schedules are as follows :-

1. 6,000 Mile Schedule At the completion of every 6,000 miles
(10,000 Kms.)

Engine oil change - Check oil in steering pump and gearbox -
Check coolant and brake fluid levels - Carry out minor engine,
chassis and electrical system checks and lubrication.

2. 12,000 Mile Schedule At the completion of every 12,000 miles
(20,000 Kms.)

Repetition of 6,000 Mile Schedule plus - Complete lubrication of
suspension, steering and transmission - Checking of brake system, -
further maintenance of engine, chassis and electrical system
components.

3. 24,000 Mile Schedule At the completion of every 24,000 miles
(40,000 Kms.)

Repetition of 12,000 Mile Schedule plus - Oil change of major
components - maintenance of power assisted steering unit.

4. Seasonal Schedules

Every 12 months - Drain and reverse flush cooling system, servicing
refrigeration system (where fitted).

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Every 24 months: Repetition of 12 months schedule plus -
Renewal of heater and coolant hoses.

6,000 MILE SCHEDULE

This schedule is to be carried out after the completion of every 6,000 miles (10,000 Kms.).

1. Oil Changes

- i Drain and refill the engine crankcase.
If the car is regularly used for town work and is subjected to a considerable amount of 'stop-start' operation, the engine crankcase should be drained and re-filled every 3,000 miles (5,000 Kms.).

NOTE:- On the completion of its first 3,000 miles (5,000 Kms.) running, the engine crankcase should be drained and re-filled and the 3,000 mile Service carried out in accordance with Service Bulletin No. S2/D7.

2. Oil Level Checks

- i Carburetter air valve dampers.
- ii Steering pump reservoir.
- iii Automatic gearbox. (Check with the engine running, as described in the Automatic Gearbox Manual).

3. Engine Adjustments and Checks

- i Renew the oil filter element.
- ii Clean the carburetter air valve dampers.
- iii Clean the contact breaker points, re-set the gaps, check and, if necessary, reset the engine timing.
- iv Check the tension of the belts driving the engine auxiliaries and adjust if necessary.
- v Lubricate the ignition distributor automatic advance and retard mechanism, the shaft bearings, the governor spindle, the contact breaker rocker arm pivots and cam.

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- vi Clean the air filter element - wire mesh type only.
- vii Clean the spark plugs and re-set the gaps as recommended.

4. Chassis Adjustments and Checks

- i Check the coolant level and its specific gravity. Top-up with the correct mixture of anti-freeze as necessary.
- ii Check and, if necessary, adjust the tyre pressures, (including the spare).
- iii Check and, if necessary, adjust the brake servo.
- iv Check and top-up the reservoir of the windscreen washer. Use only distilled water and Rolls-Royce Windscreen Washer Fluid.
- v Remove any foreign matter from the refrigeration condenser matrix - if fitted.
- vi Check the level of the brake fluid in the brake fluid reservoirs, and top-up if necessary.
- vii Lubricate the gear range selector controls and the accelerator linkage.
- viii Lubricate the brake system pivot pins and bearings.
- ix Change the road wheels round and balance.
- x Remove the brake drums and inspect the brake linings for wear. (The lining faces should not be less than 1/16 in. (1.6 mm.) above the rivets.). Check the rear brake adjustment.

5. Electrical System Checks

- i Check the level of the electrolyte in the battery and top-up with distilled water as required.
- ii Check that all lights, direction indicators, and all instruments are operating satisfactorily.
- iii Check that the heater controls are operating satisfactorily.

12,000 MILE SCHEDULE

This schedule is to be carried out after the completion of every 12,000 miles (20,000 Kms.).

- 1. Repeat 6,000 Mile Schedule.

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2. Oil Level Checks

- i Check the front and rear shock dampers for signs of leakage. If apparent, inspect the oil level and top-up if necessary.
- ii Check and, if necessary, top-up the rear axle with oil.

3. Engine Adjustments and Checks

- i Renew the sparking plugs.
- ii Renew the carburetter air filter element - this only applies where the paper type air filter element is fitted (certain overseas countries only).
- iii Clean the filter gauzes in the carburetter float chamber feed connections.

4. Chassis Adjustments and Checks

- i Lubricate the grease nipple on the master cylinder balance lever pivot.
- ii Lubricate the thirteen grease nipples on the steering mechanism.
- iii Lubricate the eight grease nipples on the front suspension.
- iv Lubricate the three grease nipples on the rear propeller shaft.
- v Clean out the main fuel line filter and filter bowl and the filter gauzes in the fuel pump.
- vi Clean the electrical contact points and check the functioning of the fuel pumps. (Each pump should be tested independently).
- vii Clean the nylon filter gauze (Recirculating heater system) under the front right-hand seat.

5. Electrical System Checks

- i Clean, re-vaseline and tighten the battery terminals.

6. Test the Car on the Road

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24,000 MILE SCHEDULE

This schedule is to be carried out after the completion of every 24,000 miles (40,000 Kms.).

1. Repeat 12,000 Mile Schedule
2. Oil Changes
 - i Drain and re-fill the automatic gearbox. Clean the oil breather in the top of the dipstick
 - ii Drain and refill the rear axle.
3. Oil Level Checks
 - i Check the oil level in the transfer steering box and top-up if necessary.
4. Engine Adjustments and Checks
 - i Clean the filter gauzes in engine breathing tube - on cars fitted with enclosed crankcase breathing system.
5. Chassis Adjustments and Checks
 - i Renew the filter element in the steering pump reservoir.
 - ii Release - but do not remove - the fuel tank drain plug to allow any accumulated water to escape.
6. Electrical System Checks
 - i Inspect the generator commutator and brushes for wear, also check the brushes for freedom in their holders.

SEASONAL SCHEDULES

EVERY 12 MONTHS

1. Cooling System
 - i Drain the cooling system and reverse flush (see Service Bulletin S2/L1). Refill the system with an anti-freeze

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mixture as recommended (See Service Bulletin S2/L8). This operation should be carried out immediately prior to the Autumn season. (In the U.K., prior to September 21st.).

2. Refrigerated Cars Only

- i 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).
- ii Check the level of the oil in the compressor. (See separate instruction book).
- iii Clean the air filter gauze fitted over the evaporator unit. (Boot Unit Only).

EVERY 24 MONTHS

1. Repeat 12 monthly schedule

2. Cooling System

- i Renew all the heater and coolant hoses.
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FOR INFORMATION

MULTIGRADE ENGINE OILS

FOR S1 AND S2 CARS

The following multigrade oil has now been approved for use on S1 and S2 cars:-

Mobil - Mobiloil Special 10W/30

This oil should be added to the list of previously approved multigrade oils which are:-

B.P. - Energol Viscostatic 10W/30

Shell - X-100 10W/30

Wakefield's - Castrolite