



Specification

Rolls-Royce Phantom VI: H. J. Mulliner, Park Ward 7 Passenger Limousine

ENGINE

Eight-cylinder 90° V-unit with overhead valves, hydraulic tappets. Bore 4.1 in. (104.14 mm.). Stroke 3.6 in. (91.44 mm.). Cubic capacity 380 cu. in. (6,230 c.c.) compression ratio 9.0:1 (8.0:1 engines supplied where 100 octane fuel not available). Cylinder block of high silicon content aluminium alloy with 'wet' cylinder liners of cast iron. Aluminium alloy cylinder heads with alloy cast-iron valve seats. A nitride hardened chrome molybdenum forged steel crankshaft runs in five main bearings. Oil pump with helical displacement gears and integral relief valve feeds high pressure oil to the camshaft connecting rods, crankshaft bearings and engine gears. Full flow oil filter. Coolant circulation maintained by a centrifugal pump mounted in tandem with fan and twin V-belt auxiliary drive. Viscous coupling to fan drive. Twin SU carburetters, automatic choke for cold starting.

CHASSIS

Closed box-section frame of welded steel construction with cruciform centre bracing and welded-in centre tunnel through which runs the propeller shaft.

TRANSMISSION

Rolls-Royce automatic gearbox providing four forward speeds and reverse through epicyclic gears. Manual gear

SUSPENSION

Independent front suspension by coil springs controlled by hydraulic shock dampers with anti-roll stabiliser. The rear suspension comprises asymmetric semi-elliptic leaf springs with hydraulic shock dampers electrically controlled through a switch on the steering column.

STEERING

Cam and roller, power assisted, the ratio of assistance progressively increasing with steering wheel rim load. 4½ turns of the steering wheel from lock-to-lock. Turning circle 48 ft. 9 in.

WHEELS AND TYRES

15 in. steel disc wheels on five studs carrying 8.90 x 15 tyres.

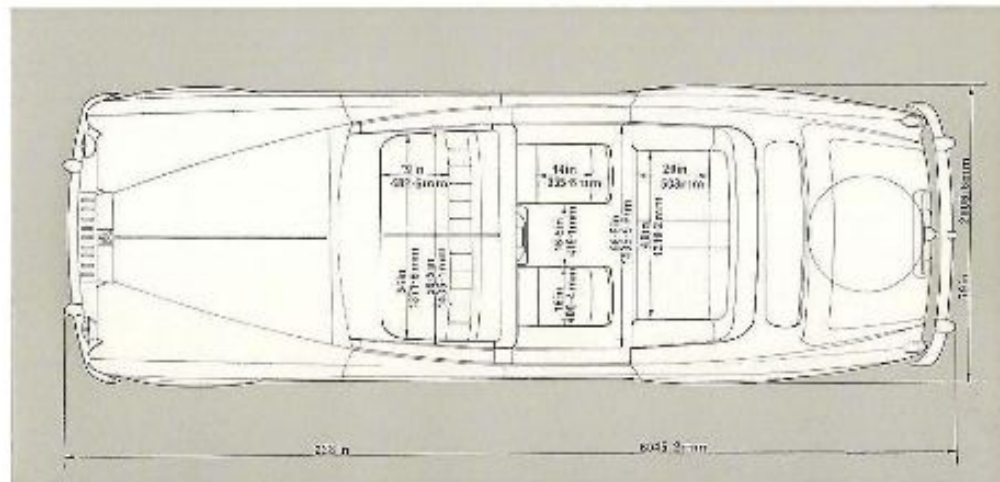
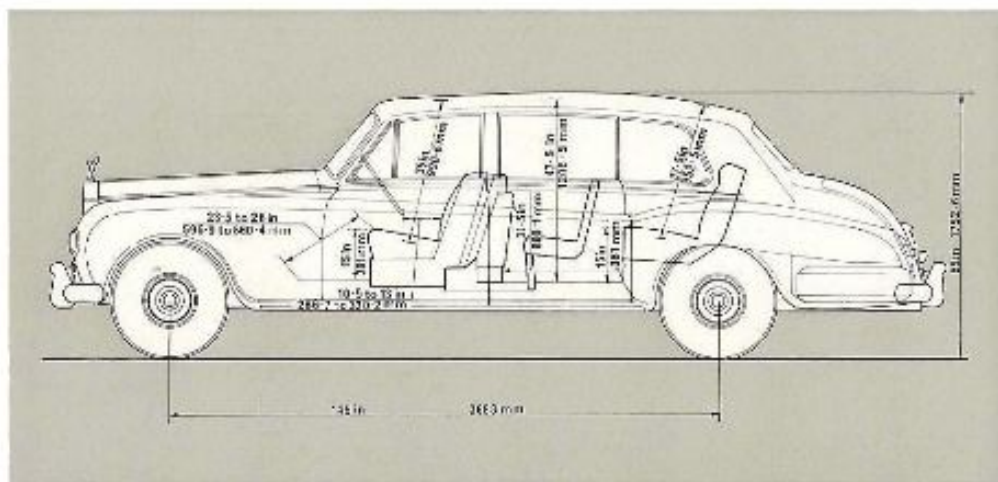
BRAKES

Hydraulic and mechanical, servo assisted whenever the car is in motion. There are three independent braking systems each capable of operating should the other systems fail. The hand brake is mechanical to the rear wheels and a warning lamp is provided on the fascia.

manually adjustable for forward/rearward movement. In addition to the rear seat, the rear compartment is fitted with two occasional folding seats. Upholstery for the front compartment is English hide and for the rear compartment cloth is specified. Deep pile carpets are fitted harmonizing with the upholstery and headlining. Walnut veneer fascia, centre division and garnish rails. Full air conditioning for both front and rear compartments supplied by separate units in scuttle and luggage boot. Rear window electrically demisted.

ELECTRICAL SYSTEM

12-volt negative earth, fully fused. Automatic voltage regulation of alternator current. Starter motor with pre-engagement solenoid. 68 ampere-hour battery. Twin electric fuel pumps. Four headlamp system. Foot controlled dipping switch. Direction indicator switch on steering column. Side lamps and front direction indicators in combined unit in nose of front wings. Combined stop/tail and direction indicator lamps in rear wings and separate reversing lamps. Windscreen washers and two-speed windscreen wipers. Warning lamps on fascia for ignition, fuel level and hand brake. Solenoid operated fuel filler flap.



selection by lever on the side of the steering column. Divided type propeller shaft having a ball and trunnion universal joint at the front and a needle roller universal joint at the centre and rear. The shaft is supported in the centre by a flexibly mounted ball race. Semi-floating rear axle with hypoid spiral final drive. Overall gear ratios—

1st	14.86:1	3rd	5.64:1
2nd	10.23:1	4th	3.89:1
Reverse	16.72:1		

COACHWORK

Seven seat, 4-door Limousine. The body comprises an all-metal framework of steel and light alloy construction, panelled throughout with aluminium. The body is mounted on rubber mountings to the chassis frame. A centre division behind the driver has an electrically operated curved window. For the rear compartment, the division is fitted with a polished walnut cabinet containing cut glass decanters and glasses. Individual front seats, the driver's seat being

Radio with front and rear speakers. Cigar lighters in rear arm rests and on fascia. Centre roof lamp for front compartment and two interior lamps for rear compartment.

CAPACITIES

Fuel	24 Imp. gall.	28.8 U.S. gall.	109 litres
Engine oil	14 Imp. pints	16.8 U.S. pints	8.0 litres
Gearbox oil	20 Imp. pints	24 U.S. pints	11.36 litres
Coolant	23 Imp. pints	27.6 U.S. pints	13.6 litres