



Phantom V - H. J. Mulliner - Park Ward 7 - Passenger Limousine

Rolls-Royce Phantom V

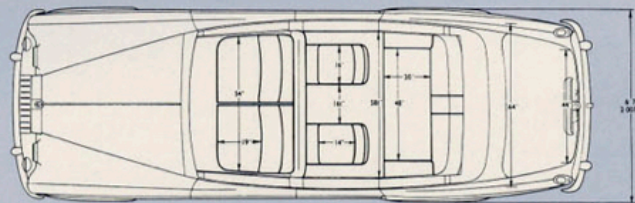
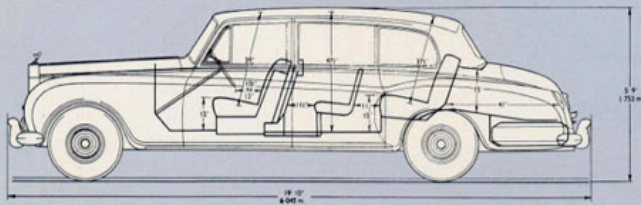
THE ROLLS-ROYCE PHANTOM V SEVEN-PASSENGER LIMOUSINE, with coachwork by H. J. Mulliner, Park Ward Limited, offers the deepest of comfort, spaciousness and road performance of a very high order. The singular beauty of styling in this latest series combines classical traditional lines with the functional requirements of modern motoring. The wheelbase is 144" and the overall length is 19' 10". The engine is the eight cylinder vee unit of 6230 c.c. with overhead valves, twin carburetors and automatic transmission. The Rolls-Royce hydraulic and mechanical braking system, with three separate linkages, provides great stopping power with very light pedal pressure. A heating and fresh air ventilating system for both front and rear compartments of the car is provided, and this may be supplemented with air-conditioning as an optional extra.

Rolls-Royce and Bentley chassis are made by Messrs. Rolls-Royce Limited in England. This world-famous company, which has maintained an enviable reputation for its motor cars for more than 60 years, is also a leader in other important fields of endeavor. The range of products today includes jet and prop-jet aircraft engines, diesel and gasoline engines, marine engines, light aircraft engines, rocket engines for space research, and nuclear power plants.

Rolls-Royce

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THE ENGINE

ENGINE TYPE

Eight cylinder 90° vee unit with overhead valves, hydraulic tappets, and cast aluminum block and heads. *Bore and stroke:* 4.1" × 3.6" (104.14 mm. × 91.44 mm.). *Cubic Capacity:* 380 cu. in. (6230 c.c.).

Compression Ratio: 9.0:1.

Firing Order: A 1, B 1, A 4, B 4, B 2, A 3, B 3, A 2. (A = offside bank).

CYLINDER BLOCK

High silicon content aluminum alloy with "wet" cylinder liners of cast iron.

CYLINDER HEADS

Aluminum alloy with austenitic steel valve seats.

FUEL SYSTEM

Fuel Pumps: Twin electrically operated independent

pumps mounted externally on right-hand side of chassis frame.

Fuel Tank Capacity: 24 gallons (Imperial); 27.6 gallons (U.S.); 81.8 litres.

Carburetors: Twin S. U.: automatic choke for cold starting. 2" bore carburetors.

Air Cleaner: Wire mesh.

CRANKSHAFT

Nitrided chrome molybdenum steel with integral balance weights running in five main bearings.

CAMSHAFT

Monikrom cast iron shaft driven by helical gears.

LUBRICATION SYSTEM

Oil pump with helical displacement gears and integral relief valve. Full Flow oil filter. Capacity: 12.5 pints (Imperial); 15 pints (U.S.); 7.1 litres.

SPECIFICATIONS

CHASSIS

Closed box-section frame of welded steel construction with cruciform centre bracing pierced for propeller shaft and forming a very stiff structure. Long life grease lubrication.

TRANSMISSION

Rolls-Royce automatic gearbox providing four forward speeds and reverse through epicyclic gears. Divided propeller shaft with universal joints connecting the two halves. Hypoid bevel final drive with four-star differential and semi-floating half-shafts. Phantom V Transmission ratios:

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

SUSPENSION

Independent front suspension by wishbones of unequal length with coil springs. Opposed piston hydraulic dampers and torsional anti-roll bar. Rear sus-

pension is by half-elliptic springs with rubber bushed shackles. Electrically controlled piston-type dampers. A ride control switch on the steering column varies the setting of the shock dampers to deal with rough roads or heavy loads.

STEERING

Cam and roller with hydraulic power assistance. Turns of steering wheel from lock to lock: 4¼.

WHEELS AND TIRES

8.90 x 15.

BRAKES

Power-assisted brakes with hydraulic operation at the front and combined hydraulic and mechanical operation at the rear. The hydraulic systems are duplicated, with two master cylinders, for safety. Pull and twist handbrake operating on rear wheels. Cast-iron drums with peripheral cooling fins 1¼ in. diameter, 3 in. wide. Brake lining area: 240 square inches.

Mechanical and coachwork specifications subject to change without notice

Rolls-Royce

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