

BENTLEY EIGHT





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Body Style	4 door saloon
Number of seats	2 front, 3 rear

Dimensions

Wheelbase	3061mm (120.5in)
Track front	1537mm (60.5in)
Track rear	1537mm (60.5in)
Overall length	5268mm (207.4in)
Overall width excluding door mirrors	1887mm (74.3in)
Overall height	1485mm (58.5in)
Ground clearance	165mm (6.5in)
Kerb weight	2268kg (4990lb)
Luggage boot capacity	0.55m ³ (19ft ³)

Engine

Position	Front longitudinal
Number of cylinders	8
Configuration	90°V
Bore and stroke	104.14mm × 99.06mm (4.1in × 3.9in)
Cubic capacity	6.75litres (411.75in ³)
Compression ratio	8.1:0
Working cycle	4 stroke
Valve arrangement	Overhead
Camshaft	1
	Number Position Drive
Tappets	Central between cylinder blocks
Spark plugs	Gear
Firing order	Self adjusting hydraulic
Cylinder block material	NGK BPR 5EV
Cylinder liners	A1, A3, B3, A2, B2, B1, A4, B4
Cylinder head material	Aluminium-silicon alloy
Crankshaft bearings - number	Wet, cast iron
Oil filter system	Aluminium-silicon-magnesium alloy
Fuel injection system	5
	Full flow disposable
	Bosch
	Mechanical
	483KPa (70lb/in ²)
Fuel pumps	2
	1 under floor, 1 in tank
Fuel octane	91 - unleaded
Air cleaner system	Paper element
Cooling system	50:50 water and antifreeze
Maximum power and torque	Not disclosed

Transmission

Type	Automatic
Coupling	Torque converter
Torque multiplication at stall	2.0:1
Ratio 3	1.0:1
2	1.48:1
1	2.48:1
R	2.08:1
Gear change type and location	Electric, switch on steering column

Final Drive

Type	Hypoid
Ratio	2.69
Road speed per 1000 rpm	48.3 kph (30mph)

Electrical

Voltage/polarity	12V, negative earth
Battery capacity	75 amp/hr
Alternator	108 amps @ 13.5V
Fuses	2 × 4 amp, 11 × 10 amp
	14 × 20 amp, 9 × 30 amp
	One thermal cut-out for centralised door locking system. Integral thermal cut-outs in window lifts and seat motors.

Chassis

Construction	Integral, with separate front and rear subframes
Brakes front	Type Diameter Swept area
Brakes rear	Ventilated disc 279mm (11.0in) 1464.5cm ² (227.0in ²) Type Diameter Swept area
Make	Disc 279mm (11.0in) 1845.2 (286in ²)
Circuits, number and description	Rolls-Royce Motor Cars 2 independently powered hydraulic with anti-lock (ABS)
Parking brake	Manual to each rear disc
Steering	Rack and pinion, power assisted
	16.9:1
	3.25
Suspension front	Turning circle, wall to wall 11.67m (38.3ft) Type
Suspension rear	Independent; lower wishbone, upper stabilised lever, anti-roll bar Coil Telescopic Independent; semi-trailing arm, anti-roll bar, automatic ride height control Coil and auxiliary gas springs
Wheels	Strut Aluminium alloy Material Rim size Diameter
Tyres	165.1mm (6.5in) 381.0mm (15.0in) Type Size Normal pressure front and rear
	235/70 HR15
	Dependent upon usage, see owners handbook

Capacities

Fuel tank	108 litres (23.75gal, 28.5 USgal)
Engine sump with filter	9.9 litres (17.4pt, 20.8 USpt)
Transmission	10.6 litres (18.6pt, 22.5 USpt)
Final drive	2.3 litres (4.0pt, 4.8 USpt)
Cooling system	18.0 litres (31.6pt, 38.0 USpt)
Hydraulic systems	5.0 litres (8.75pt, 10.5 USpt)
Air conditioning refrigerant	1.9kg (4.25lb)
Steering system	0.87 litres (1.53pt, 1.84 USpt)

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