

Phil Hawksley's BM Bikes

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BMW R850R Specifications

Start of Production 1994
End of Production 2001
Numbers Produced N/A
Price (2003) UK £ 6,495



Engine

Motor Type

Four-stroke, two cylinder, horizontally opposed "Boxer" engine, air cooled

Bore x Stroke

87.8 x 70.5 mm (3.45 x 2.77 in)

Displacement

848 cc

Max Power

70 hp (52 KW) at 7,000 rpm (performance reduction 34 hp (25 Kw) at 5,000 rpm possible)

Max Torque

77 Nm / 56 ft lb at 5,600 rpm (performance reduction: 60 Nm / 44 ft lb at 3,000 rpm)

Compression Ratio

10.3 : 1

Valves Per Cylinder

4

Valve Control

hc, using chain drive, cup tappets, push rod and rocker arm

Mixture Control / Engine Management

Electronic intake pipe injection/digital engine management: Bosch Motronic MA 2.4 with overrun fuel cut off

Emission Control

Closed loop 3 way catalytic converter

Engine Lubricating System

Wet sump

Power Transmission

Clutch

Single disc dry clutch, hydraulically operated

Gearbox

Constant mesh 6 speed gearbox

Drive

Shaft Drive

Electrical System

Ignition System

Electronic ignition, Bosch Motronic MA 2.4

Alternator

700 W three phase alternator

Battery

12V / 19 Ah

Chassis

| | |
|------------------------|--|
| Type of Frame | Three section composite frame consisting of front & rear section, load bearing engine BMW Motorrad Telelever; stanchion diameter 35 mm, central strut, rebound damping adjustable |
| Front wheel suspension | Die cast aluminium single sided swinging arm with BMW Motorrad Paralever; central strut, spring pre-load adjustable to continuously variable levels by mean of a hydraulic handwheel, rebound adjustable damping |
| Rear wheel suspension | 120 / 135 mm (4.72 / 5.31 in) |
| Travel Front/Rear | Die cast aluminium wheels |
| Wheels | 3.50 x 17 |
| Wheel Rims, Front | 5.00 x 17 |
| Wheel Rims, Rear | 120 / 70-ZR 17 |
| Tyres, Front | 170 / 60-ZR 17 |
| Tyres, Rear | EVO brake system with dual disc, floating brake discs, diameter 320 mm / 12.6 in, 4 piston fixed caliper |
| Brakes, Front | Single disc brake 276 mm / 10.86 in diameter, double piston floating caliper |
| Brakes, Rear | Special equipment BMW Motorrad Integral ABS (partially integral) |
| ABS | |

Dimensions/Weights

| | |
|---|---|
| Length x Width x Height | 2170 x 940 x 1220 mm (85.43 x 37.00 x 48.03 in) |
| Seat Height | 800 mm / 31.49 in (special equipment low seat bench: 770 mm / 30.31 in) |
| Wheel Base | 1487 mm / 58.54 in |
| Castor (in Normal Position) | 127 mm / 5.00 in |
| Steering Head Angle (in Normal Position) | 61.9 degrees |
| Fuel Tank Useable Volume | 20.5 litres / 4.50 gal / 5.41 gal US |
| Reserve | 4.0 litres / 0.87 gal / 1.05 gal US |
| Unladen Weight with Full Tank | 238 Kg / 524 lb |
| Dry Weight | 218 Kg / 480 lb |
| Max. Permissible Weight | 450 Kg / 991 lb |
| Payload (with Standard Equipment) | 212 Kg / 466 lb |
| Fuel Consumption over 100 Km @ constant 90 Kph | 4.6 litres / 61 mpg / 51 mpg US |
| Fuel Consumption over 100 Km @ constant 120 Kph | 5.7 litres / 49 mpg / 41 mpg US |
| Fuel Type | Unleaded Premium minimum octane rating 95 (RON) |
| Top Speed | Approx. 187 Kph / 116 mph |

