

Phil Hawksley's BM Bikes

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BMW R850RT Specifications

Start of Production 1996

End of Production N/A

Numbers Produced N/A

Price (2003) UK £ N/A



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

