

Phil Hawksley's BM Bikes

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BMW F650 Specifications

Start of Production	1993
End of Production	2000
Numbers Produced	51,405
Price	10,950 DM



Engine

Motor Type	Four-stroke vertical single cylinder engine, liquid cooled
Bore x Stroke	100 x 83 mm (3.93 x 3.26 inches)
Displacement	652 cc
Max Power	48 hp (35 KW) at 6,500 rpm or 34 hp (25 Kw) at 5,700 rpm
Max Torque	57 Nm (42 ft lb) at 5,200 rpm or 48 Nm (35 ft lb) at 4,200 rpm
Compression Ratio	9.7 : 1
Valves Per Cylinder	4
Valve Control	DOHC, using chain drive, cup tappets
Carburation System	2 Mikuni constant depression carburetors, 33 mm
Engine Lubricating System	Dry sump

Power Transmission

Clutch	Multi plate clutch in oil bath
Number of Gears	5
Gear Selection	Dog type gearbox (ratchet foot lever)
Gearbox Ratios	2.75 / 1.75 / 1.31 / 1.05 / 0.88 : 1
Rear Wheel Ratio	1 : 2.94
Bevel/Crownwheel	16 / 47 teeth

Electrical System

Ignition System	Contact free high voltage capacitor ignition
Generator	12 V / 280 W
Starter	0.9 Kw
Spark Plugs	NGK D 8 EA

Chassis

Type of Frame	Single loop tubular frame with bolt on trussing, engine serving as load bearing component
Front wheel suspension	Telescopic fork with hydraulic shock absorber
Rear wheel suspension	Long swinging arm with adjustable central strut
Spring Travel Front/Rear	170 / 165 mm (6.7 x 6.5 inches)
Wheel Rims, Front	2.5 x 19
Wheel Rims, Rear	3.00 x 17
Tyres, Front	100/90 x 19 57 S
Tyres, Rear	130/80 x 17 65 S
Brakes, Front	Single disc brake 300 mm diameter
Brakes, Rear	Simplex drum brake 240 mm diameter

Dimensions/Weights

Length x Width x Height	2180 x 880 x 1220 mm (86.2 x 34.6 x 48 inches)
Wheel Base	1480 mm (58.3 inches)
Fuel Tank Capacity	17.5 litres / 3.85 Imp gal / 4.62 US gal
Unladen Weight with Full Tank	191 Kg / 421 lb
Max. Permissible Weight	371 Kg / 817 lb
Seat Height (Unladen)	800 mm (31.5 inches) '97 on 810 mm (31.9 inches)
Ground Clearance	180 mm (7.1 inches)
Fuel Consumption per 100 Km	3.8 litres
Fuel Consumption	74.3 mpg / 61.9 mpg US
Top Speed	163 Kph or 145 Kph / 101 mph or 90 mph
Acceleration 0 - 100 Kph / 0 - 62 mph	6.2 seconds