

# 2003 BMW F 650 GS

Importer: BMW of North America, LLC.

Manufacturer: BMW AG, Munich, Germany

Mfr.'s Suggested Retail Price: \$8,190.00\*/\$8,690.00 w/ABS\*

Note: Lowered version is special order and available as no-cost option.

\*Actual Price Determined by Dealer

\*\*New for 2003

Price excludes taxes, license, options, and handling charges.

MSRP includes equalized freight.

Engine		Brakes	
Type	Liquid-cooled single-cylinder	Brake system	F & R disc, ABS adds BMW/Bosch anti-lock system
Bore x stroke	100 mm x 83 mm	Front brakes	Floating mount 2-piston caliper
Displacement	652 cc	Front rotor	Single 11.8-inch fixed rotor
Horsepower	50 bhp @ 6500 rpm	Actuation method	Hydraulic, DOT 4 fluid type
Torque	44 lb.-ft. @ 5000 rpm	Rear brake	Floating mount single-piston caliper
Compression ratio	11.5:1	Rear rotor	Single 9.5-inch fixed rotor
Valve gear	DOHC, chain-driven with bucket tappets	Actuation method	Hydraulic, DOT 4 fluid type
Valves	2 x 36 mm intake / 2 x 31 mm exhaust	Wheels and Tires	
Valve timing (measured at 3 mm valve clearance)	Intake opens 13 degrees after BDC	Front wheel	2.15 x 19 MT, wire-spoked wheel
	Intake closes 25 degrees after BDC	Rear wheel	3.00 x 17 MT, wire-spoked wheel
	Exhaust opens 25 degrees before BDC	Front tire	100/90 x 19 57 tube-type
	Exhaust closes 13 degrees before TDC	Rear tire	130/80 x 17 65 tube-type
Valves per cylinder	Four	Dimensions	
Engine oil capacity	2.4 qts of SF, SG or SH motor oil, also w/CC or CD suff.	Overall length	85.6 inches (2175 mm)
Engine oil filter	Micronic paper element	Overall width	35.8 inches (910 mm)
Fuel & Ignition	Electronic fuel injection & ignition controlled by BMS Electronic Engine Management	Wheelbase	58.3 inches (1477 mm)
		Ground clearance	8.3 inches (130 mm)
Fuel demand	Unleaded, premium grade, 91 AKI	Seat height	30.7 inches (780 mm) / Low option: 29.5 (750 mm)
Fuel tank	Plastic cell w/enclosed pump & filter	Handlebar width	30.9 inches (785 mm)
Fuel capacity	4.4 U.S. gallons w/ approx. 1.0 gal. reserve	Steering angle	61.9 degrees
Air filter	Micronic paper element	Front wheel trail	4.5 inches (113 mm)
Charging system	400 W @ 14V	Weight (lbs.) - dry	405 w/o ABS, 412 w/ABS (Low version add 1 lb.)
Battery	12V 12 amp/h	Weight (lbs.) - wet	434 w/o ABS, 441 w/ABS (Low version add 1 lb.)
Cooling system	50/50 water/anti-freeze mix, single radiator	Maximum load	837 lbs. GVWR
Drivetrain		Wheel load	Front = 260 lbs.
Primary drive	Straight-cut gear 37 / 72 = 1:1.946	limits	Rear = 577 lbs.
Clutch	Multiple plate in oil bath	Available Colors	
Gear ratios	1st gear: 2.75:1                      4th gear: 1.05:1	Deep Black	Titan Silver Metallic**                      Titan Silver/Yellow**
	2nd gear: 1.75:1                      5th gear: 0.88:1	Avus Blue Metallic**	Yellow 2**                      Black saddle on all
3rd gear: 1.31:1	O-ring roller chain drive 5/8" x 1/4"	Standard Equipment	
		-Clock	
Drive system	O-ring roller chain drive 5/8" x 1/4"	-Centerstand	
Final drive	2.937:1 (16 / 47 sprocket / chainwheel)	-Sidestand	
Frame and Suspension		-One key locks	
Frame	Bridge-type, square-section steel tube	-Central ignition/steering lock	
Front suspension	w/bolted-on rear section	Available Accessories	
	41 mm telescopic fork w/stabilizer bridge, available lowered	-Heated handlebar grips                      -Tall seat (+40mm)	
Front travel	6.7 inches	-Saddlebags and mounts	
Rear suspension	Central spring strut actuated by lever-linkage, with adjustable preload, infinitely variable rebound damping, available lowered	-Top box (31 liters)	
Rear travel	6.5 inches	-On-board computer	
		-Engine guards	
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# 2003 BMW F 650 GSD Dakar

Importer: BMW of North America, LLC.

Manufacturer: BMW AG, Munich, Germany

Mfr.'s Suggested Retail Price: \$8,690.00\*/\$9,190.00 w/ABS

\*Actual Price Determined by Dealer

\*\*New for 2003

Price excludes taxes, license, options, and handling charges.

MSRP includes equalized freight.

Engine		Brakes	
Type	Liquid-cooled single-cylinder	Brake system	F & R disc, ABS adds BMW/Bosch anti-lock system
Bore x stroke	100 mm x 83 mm	Front brakes	Floating mount 2-piston caliper
Displacement	652 cc	Front rotor	Single 11.8-inch fixed rotor
Horsepower	50 bhp @ 6500 rpm	Actuation method	Hydraulic, DOT 4 fluid type
Torque	44 lb.-ft. @ 5000 rpm	Rear brake	Floating mount single-piston caliper
Compression ratio	11.5:1	Rear rotor	Single 9.5-inch fixed rotor
Valve gear	DOHC, chain-driven with bucket tappets	Actuation method	Hydraulic, DOT 4 fluid type
Valves	2 x 36 mm intake / 2 x 31 mm exhaust	Wheels and Tires	
Valve timing (measured at 3 mm valve clearance)	Intake opens 13 degrees after BDC	Front wheel	1.60 x 21 MT, wire-spoked wheel
	Intake closes 25 degrees after BDC	Rear wheel	3.00 x 17 MT, wire-spoked wheel
	Exhaust opens 25 degrees before BDC	Front tire	90/90 x 21 54 tube-type
	Exhaust closes 13 degrees before TDC	Rear tire	130/80 x 17 65 tube-type
Valves per cylinder	Four	Dimensions	
Engine oil capacity	2.4 qts of SF, SG or SH motor oil, also w/CC or CD suff.	Overall length	85.6 inches (2175 mm)
Engine oil filter	Micronic paper element	Overall width	35.8 inches (910 mm)
Fuel & Ignition	Electronic fuel injection & ignition controlled by BMS Electronic Engine Management	Wheelbase	58.6 inches (1489 mm)
Fuel demand	Unleaded, premium grade, 91 AKI	Ground clearance	7.1 inches (180 mm)
Fuel tank	Plastic cell w/enclosed pump & filter	Seat height	34.3 inches (870 mm)
Fuel capacity	4.4 U.S. gallons w/ approx. 1.0 gal. reserve	Handlebar width	35.5 inches (901 mm)
Air filter	Micronic paper element	Steering angle	61.9 degrees
Charging system	400 W @ 14V	Front wheel trail	4.9 inches (123 mm)
Battery	12V 12 amp/h	Weight (lbs.) - dry	412 w/o ABS, 419 w/ABS
Cooling system	50/50 water/anti-freeze mix, single radiator	Weight (lbs.) - wet	441 w/o ABS, 448 w/ABS
Drivetrain		Maximum load	838 lbs. GVWR
Primary drive	Straight-cut gear 37 / 72 = 1:1.946	Wheel load limits	Front = 260 lbs. Rear = 578 lbs.
Clutch	Multiple plate in oil bath	Available Colors	
Gear ratios	1st gear: 2.75:1                      4th gear: 1.05:1	Desert Blue / Aura White                      Black Saddle	
	2nd gear: 1.75:1                      5th gear: 0.88:1		
	3rd gear: 1.31:1	Standard Equipment	
Drive system	O-ring roller chain drive 5/8" x 1/4"	-Clock	
Final drive	2.937:1 (16 / 47 sprocket / chainwheel)	-Sidestand	
Frame and Suspension		-One key locks	
Frame	Bridge-type, square-section steel tube	-Central ignition/steering lock	
	w/bolted-on rear section	Available Accessories	
Front suspension	41 mm telescopic fork with stabilizer bridge	-Heated handlebar grips	
Front travel	8.3 inches	-Saddlebags and mounts	
Rear suspension	Central spring strut actuated by lever-linkage, basic spring setting and rebound stage damping infinitely variable.	-Top box (31 liters)	
Rear travel	8.3 inches	-On-board computer	
		-Engine guards	

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# 2003 BMW F 650 CS

Importer: BMW of North America, LLC.

Manufacturer: BMW AG, Munich, Germany

Mfr.'s Suggested Retail Price: \$8,690.00\*/\$9,190.00\* with ABS

\*Actual Price Determined by Dealer

\*\*New for 2003

MSRP includes equalized freight.

\*\*\*Lowered version

Price excludes taxes, license, options, and handling charges.

Engine		Brakes	
Type	Liquid-cooled single-cylinder	Brake system	F & R disc, ABS adds BMW/Bosch anti-lock system
Bore x stroke	100 mm x 83 mm	Front brakes	Floating mount 2-piston caliper
Displacement	652 cc	Front rotor	Single 11.8-inch fixed rotor
Horsepower	50 bhp @ 6500 rpm	Actuation method	Hydraulic, DOT 4 fluid type
Torque	45 lb.-ft. @ 5000 rpm	Rear brake	Floating mount single-piston caliper
Compression ratio	11.5:1	Rear rotor	Single 9.5-inch rotor
Valve gear	DOHC, chain-driven with bucket tappets	Actuation method	Hydraulic, DOT 4 fluid type
Valves	2 x 36 mm intake / 2 x 31 mm exhaust	Wheels and Tires	
Valve timing (measured at 3 mm valve clearance)	Intake opens 13 degrees after BDC	Front wheel	3.0 x 17.0 cast alloy three-spoke wheel
	Intake closes 25 degrees after BDC	Rear wheel	4.5 x 17.0 cast alloy three-spoke wheel
	Exhaust opens 25 degrees before BDC	Front tire	110/70 x 17 tubeless
	Exhaust closes 13 degrees before TDC	Rear tire	160/60/17 or 150/60/17*** tubeless
Valves per cylinder	Four	Dimensions	
Engine oil capacity	2.4 qts of SF, SG or SH motor oil, also w/CC or CD suff.	Overall length	84.4 inches (2144 mm)
Engine oil filter	Micronic paper element	Overall width	36.0 inches (914 mm)
Fuel & Ignition	Electronic fuel injection & ignition controlled by BMS Electronic Engine Management	Wheelbase	58.8 inches (1494 mm)
		Ground clearance	N/A
Fuel demand	Unleaded, premium grade, 91 AKI	Seat height	30.71 inches (780 mm) or 29.53 inches (750mm)***
Fuel tank	Plastic cell w/enclosed pump & filter	Steering angle	62.1 degrees
Fuel capacity	3.97 U.S. gallons (15.0 liters) w/1.0 gal. (3.78 liter) reserve	Front wheel trail	4.5 inches (114.3 mm)
Air filter	Paper element	Weight (lbs.) - dry	389 w/o ABS, 396 w/ABS
Charging system	400 W @ 14V	Weight (lbs.) - wet	418 w/o ABS, 425 w/ABS
Battery	12V 12 Amp/h	Maximum load	815 lbs. (370.5) kg GVWR
Cooling system	50/50 water/anti-freeze mix, single radiator	Wheel load limits	N/A
Drivetrain		Available Colors	
Primary drive	Straight-cut gear 37 / 72 = 1:1.946	Titan Silver Metallic**	Graphite Metallic** Black Saddle**
Clutch	Multiple plate in oil bath	Gold Orange Metallic	Azure Blue Metallic
Gear ratios	1st gear: 2.75:1                      4th gear: 1.05:1	Standard Equipment	
	2nd gear: 1.75:1                      5th gear: 0.88:1	-Digital Clock	-Closed loop 3-way catalytic convertor
Drive system	3rd gear: 1.31:1	-Sidestand	-Stainless Steel exhaust
	Toothed belt drive	-One key locks	-Modular storage bay
Final drive	2.929:1	-Front softbag	-Central ignition/steering lock
Frame and Suspension		Available Accessories	
Frame	Bridge-type, square-section steel tube	-ABS anti-lock brakes	-Front speaker case
Front suspension	w/bolted-on rear section	-Lower Seat Height	-Soft Case rear bag
	41 mm telescopic fork with stabilizer bridge	-Heated Handlebar Grips	
Front Travel	4.9 inches (124.46 mm) total travel	-Hazard warning flashers	
Rear suspension	Single-sided swingarm with lever-actuated damper	-White aluminum side inserts	
Rear travel	4.7 inches (119.38 mm) total travel	-Multi-function trip computer	
		-Ten-liter front hard case	
		-Helmet and luggage spider	
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