

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

Type Liquid-cooled single-cylinder

Bore x stroke 100 mm x 83 mm

Displacement 652 cc

Horsepower 50 bhp @ 6500 rpm

Torque 44 lb.-ft. @ 5000 rpm

Compression ratio 11.5:1

Valve gear DOHC, chain-driven with bucket tappets

Valves 2 x 36 mm intake / 2 x 31 mm exhaust

Valve timing Intake opens 13 degrees after BDC

(measured at 3 mm valve clearance) Intake closes 25 degrees after BDC

Exhaust opens 25 degrees before BDC

Exhaust closes 13 degrees before TDC

Valves per cylinder Four

Engine oil capacity 2.4 qts of SF, SG or SH motor oil, also w/CC or CD suff.

Engine oil filter Micronic paper element

Fuel & Ignition Electronic fuel injection & ignition controlled by

BMS Electronic Engine Management

Fuel demand Unleaded, premium grade, 91 AKI

Fuel tank Plastic cell w/enclosed pump & filter

Fuel capacity 4.4 U.S. gallons w/ approx. 1.0 gal. reserve

Air filter Micronic paper element

Charging system 400 W @ 14V

Battery 12V 12 amp/h

Cooling system 50/50 water/anti-freeze mix, single radiator

Drivetrain

Primary drive Straight-cut gear 37 / 72 = 1:1.946

Clutch Multiple plate in oil bath

Gear ratios 1st gear: 2.75:1 4th gear: 1.05:1

2nd gear: 1.75:1 5th gear: 0.88:1

3rd gear: 1.31:1

Drive system O-ring roller chain drive 5/8" x 1/4"

Final drive 2.937:1 (16 / 47 sprocket / chainwheel)

Frame and Suspension

Frame Bridge-type, square-section steel tube

Front suspension w/bolted-on rear section

Front travel 41 mm telescopic fork w/stabilizer bridge, available lowered

Rear suspension Central spring strut actuated by lever-linkage, with adjustable

preload, infinitely variable rebound damping, available lowered

Rear travel 6.5 inches

Brakes

Brake system F & R disc, ABS adds BMW/Bosch anti-lock system

Front brakes Floating mount 2-piston caliper

Front rotor Single 11.8-inch fixed rotor

Actuation method Hydraulic, DOT 4 fluid type

Rear brake Floating mount single-piston caliper

Rear rotor Single 9.5-inch fixed rotor

Actuation method Hydraulic, DOT 4 fluid type

Wheels and Tires

Front wheel 2.15 x 19 MT, wire-spoked wheel

Rear wheel 3.00 x 17 MT, wire-spoked wheel

Front tire 100/90 x 19 57 tube-type

Rear tire 130/80 x 17 65 tube-type

Dimensions

Overall length 85.6 inches (2175 mm)

Overall width 35.8 inches (910 mm)

Wheelbase 58.3 inches (1477 mm)

Ground clearance 8.3 inches (130 mm)

Seat height 30.7 inches (780 mm) / Low option: 29.5 (750 mm)

Handlebar width 30.9 inches (785 mm)

Steering angle 61.9 degrees

Front wheel trail 4.5 inches (113 mm)

Weight (lbs.) - dry 405 w/o ABS, 412 w/ABS (Low version add 1 lb.)

Weight (lbs.) - wet 434 w/o ABS, 441 w/ABS (Low version add 1 lb.)

Maximum load 837 lbs. GVWR

Wheel load Front = 260 lbs.

limits Rear = 577 lbs.

Available Colors

Deep Black Titan Silver Metallic** Titan Silver/Yellow**

Avus Blue Metallic** Yellow 2** Black saddle on all

Standard Equipment

-Clock

-Centerstand

-Sidestand

-One key locks

-Central ignition/steering lock

Available Accessories

-Heated handlebar grips -Tall seat (+40mm)

-Saddlebags and mounts

-Top box (31 liters)

-On-board computer

-Engine guards

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

Type Liquid-cooled single-cylinder

Bore x stroke 100 mm x 83 mm

Displacement 652 cc

Horsepower 50 bhp @ 6500 rpm

Torque 44 lb.-ft. @ 5000 rpm

Compression ratio 11.5:1

Valve gear DOHC, chain-driven with bucket tappets

Valves 2 x 36 mm intake / 2 x 31 mm exhaust

Valve timing Intake opens 13 degrees after BDC

(measured at 3 mm valve clearance) Intake closes 25 degrees after BDC

Exhaust opens 25 degrees before BDC

Exhaust closes 13 degrees before TDC

Valves per cylinder Four

Engine oil capacity 2.4 qts of SF, SG or SH motor oil, also w/CC or CD suff.

Engine oil filter Micronic paper element

Fuel & Ignition Electronic fuel injection & ignition controlled by BMS Electronic Engine Management

Fuel demand Unleaded, premium grade, 91 AKI

Fuel tank Plastic cell w/enclosed pump & filter

Fuel capacity 4.4 U.S. gallons w/ approx. 1.0 gal. reserve

Air filter Micronic paper element

Charging system 400 W @ 14V

Battery 12V 12 amp/h

Cooling system 50/50 water/anti-freeze mix, single radiator

Drivetrain

Primary drive Straight-cut gear 37 / 72 = 1:1.946

Clutch Multiple plate in oil bath

Gear ratios 1st gear: 2.75:1 4th gear: 1.05:1

2nd gear: 1.75:1 5th gear: 0.88:1

3rd gear: 1.31:1

Drive system O-ring roller chain drive 5/8" x 1/4"

Final drive 2.937:1 (16 / 47 sprocket / chainwheel)

Frame and Suspension

Frame Bridge-type, square-section steel tube

Front suspension w/bolted-on rear section

Front travel 41 mm telescopic fork with stabilizer bridge

Rear suspension 8.3 inches

Rear travel Central spring strut actuated by lever-linkage, basic spring setting and rebound stage damping infinitely variable.

Rear travel 8.3 inches

Brakes

Brake system F & R disc, ABS adds BMW/Bosch anti-lock system

Front brakes Floating mount 2-piston caliper

Front rotor Single 11.8-inch fixed rotor

Actuation method Hydraulic, DOT 4 fluid type

Rear brake Floating mount single-piston caliper

Rear rotor Single 9.5-inch fixed rotor

Actuation method Hydraulic, DOT 4 fluid type

Wheels and Tires

Front wheel 1.60 x 21 MT, wire-spoked wheel

Rear wheel 3.00 x 17 MT, wire-spoked wheel

Front tire 90/90 x 21 54 tube-type

Rear tire 130/80 x 17 65 tube-type

Dimensions

Overall length 85.6 inches (2175 mm)

Overall width 35.8 inches (910 mm)

Wheelbase 58.6 inches (1489 mm)

Ground clearance 7.1 inches (180 mm)

Seat height 34.3 inches (870 mm)

Handlebar width 35.5 inches (901 mm)

Steering angle 61.9 degrees

Front wheel trail 4.9 inches (123 mm)

Weight (lbs.) - dry 412 w/o ABS, 419 w/ABS

Weight (lbs.) - wet 441 w/o ABS, 448 w/ABS

Maximum load 838 lbs. GVWR

Wheel load Front = 260 lbs.

limits Rear = 578 lbs.

Available Colors

Desert Blue / Aura White Black Saddle

Standard Equipment

-Clock

-Sidestand

-One key locks

-Central ignition/steering lock

Available Accessories

-Heated handlebar grips

-Saddlebags and mounts

-Top box (31 liters)

-On-board computer

-Engine guards

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

Type Liquid-cooled single-cylinder

Bore x stroke 100 mm x 83 mm

Displacement 652 cc

Horsepower 50 bhp @ 6500 rpm

Torque 45 lb.-ft. @ 5000 rpm

Compression ratio 11.5:1

Valve gear DOHC, chain-driven with bucket tappets

Valves 2 x 36 mm intake / 2 x 31 mm exhaust

Valve timing Intake opens 13 degrees after BDC

(measured at 3 mm valve clearance) Intake closes 25 degrees after BDC

Exhaust opens 25 degrees before BDC

Exhaust closes 13 degrees before TDC

Valves per cylinder Four

Engine oil capacity 2.4 qts of SF, SG or SH motor oil, also w/CC or CD suff.

Engine oil filter Micronic paper element

Fuel & Ignition Electronic fuel injection & ignition controlled by

BMS Electronic Engine Management

Fuel demand Unleaded, premium grade, 91 AKI

Fuel tank Plastic cell w/enclosed pump & filter

Fuel capacity 3.97 U.S. gallons (15.0 liters) w/1.0 gal. (3.78 liter) reserve

Air filter Paper element

Charging system 400 W @ 14V

Battery 12V 12 Amp/h

Cooling system 50/50 water/anti-freeze mix, single radiator

Drivetrain

Primary drive Straight-cut gear 37 / 72 = 1:1.946

Clutch Multiple plate in oil bath

Gear ratios 1st gear: 2.75:1 4th gear: 1.05:1

2nd gear: 1.75:1 5th gear: 0.88:1

3rd gear: 1.31:1

Drive system Toothed belt drive

Final drive 2.929:1

Frame and Suspension

Frame Bridge-type, square-section steel tube

Front suspension w/bolted-on rear section

Front Travel 41 mm telescopic fork with stabilizer bridge

Rear suspension Single-sided swingarm with lever-actuated damper

Rear travel 4.7 inches (119.38 mm) total travel

Brakes

Brake system F & R disc, ABS adds BMW/Bosch anti-lock system

Front brakes Floating mount 2-piston caliper

Front rotor Single 11.8-inch fixed rotor

Actuation method Hydraulic, DOT 4 fluid type

Rear brake Floating mount single-piston caliper

Rear rotor Single 9.5-inch rotor

Actuation method Hydraulic, DOT 4 fluid type

Wheels and Tires

Front wheel 3.0 x 17.0 cast alloy three-spoke wheel

Rear wheel 4.5 x 17.0 cast alloy three-spoke wheel

Front tire 110/70 x 17 tubeless

Rear tire 160/60/17 or 150/60/17*** tubeless

Dimensions

Overall length 84.4 inches (2144 mm)

Overall width 36.0 inches (914 mm)

Wheelbase 58.8 inches (1494 mm)

Ground clearance N/A

Seat height 30.71 inches (780 mm) or 29.53 inches (750mm)***

Steering angle 62.1 degrees

Front wheel trail 4.5 inches (114.3 mm)

Weight (lbs.) - dry 389 w/o ABS, 396 w/ABS

Weight (lbs.) - wet 418 w/o ABS, 425 w/ABS

Maximum load 815 lbs. (370.5) kg GVWR

Wheel load limits N/A

Available Colors

Titan Silver Metallic** Graphite Metallic** Black Saddle**

Gold Orange Metallic Azure Blue Metallic

Standard Equipment

-Digital Clock -Closed loop 3-way catalytic convertor

-Sidestand -Stainless Steel exhaust

-One key locks -Modular storage bay

-Front softbag -Central ignition/steering lock

Available Accessories

-ABS anti-lock brakes -Front speaker case

-Lower Seat Height -Soft Case rear bag

-Heated Handlebar Grips

-Hazard warning flashers

-White aluminum side inserts

-Multi-function trip computer

-Ten-liter front hard case

-Helmet and luggage spider