

# 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

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

MSRP includes equalized freight.

Engine		Brakes	
Type	Water-cooled single-cylinder	Brake system	BMW single disc front/rear, optional Bosch ABS
Bore x stroke	100 mm x 83 mm	Front brakes	Two-piston caliper, floating mount
Displacement	652 cc	Front rotor	Single 11.8-inch fixed disc (300mm)
Horsepower	50 bhp @ 6500 rpm	Actuation method	Hydraulic, DOT 4 fluid type
Torque	45 lb.-ft. @ 5000 rpm	Rear brake	Single piston caliper, floating mount
Compression ratio	11.5:1	Rear rotor	Single fixed 9.45-inch disc (240mm)
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	17 x 3.0-inch cast alloy wheel
	Intake closes 25 degrees after BDC	Rear wheel	17 x 4.5-inch cast alloy wheel
	Exhaust opens 25 degrees before BDC	Front tire	110/70 x 17 tubeless-type
	Exhaust closes 13 degrees before TDC	Rear tire	160/60/17 or 150/60/17 (opt) tubeless-type
Valves per cylinder	Four	Dimensions	
Engine oil capacity	2.4 qts (2.27 ltr.) of SF, SG or SH motor oil, also w/CC or CD suff.	Overall length	84.4 inches (214.38 cm)
Engine oil filter	Micronic paper element	Overall width	36.0 inches (91.44 cm)
Carburetion & Ignition	Fuel injection & electronic ignition controlled by	Wheelbase	58.8 inches (149.35 cm)
	BMS Electronic Engine Management	Ground clearance	N/A
Fuel demand	Unleaded, premium grade, 91 AKI	Seat height	30.71 inches (780 mm) or 29.53 inches (750mm) (opt)
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 - dry	N/A
Charging system	400 W @ 14V	Weight - wet	416 lbs. (189.0 kg)
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	Beluga Blue non-metallic	
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
	3rd gear: 1.31:1	Sidestand	Stainless Steel exhaust
Drive system	Toothed belt drive with single-sided swingarm	One key locks	Modular storage bay
Final drive	2.929:1 (Belt-driven toothed pulleys)	Front softbag	Central ignition/steering lock
Frame and Suspension		Available Accessories	
Frame	Bridge-type, square-section steel tube	ABS anti-lock brakes	Multi-function trip computer
	w/bolted-on rear section	Lower Seat Height	Ten-liter front hard case
Front suspension	41 mm telescopic fork with stabilizer bridge	Heated Handlebar Grips	Helmet and luggage spider
Front Travel	4.9 inches (124.46 mm) total travel	Hazard warning flashers	Front speaker case
Rear suspension	Single, lever-actuated, non-adjustable shock	Soft Case rear bag	
Rear travel	4.7 inches (119.38 mm) total travel	White aluminum side inserts	
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