

TECHNICAL SPECIFICATIONS BULLETIN TB 0830

JULY 1 » 2007

690 SMC - 2008 Technical Specifications

Engine Type:	TECHNICAL FACTS AND FIGURES	
Exhaust:	Engine Type:	single cylinder 4-stroke, OHC, four valve, liquid cooled
SMEPA 40 CFR 205.159 x 2	Cylinder:	Mahle Nikasil® coated
Bore/Stroke: 102.0/80.0mm Displacement: 653.7cc 533.7cc 533.7cc	Exhaust:	two exhaust valves
Displacement: 653.7cc Transmission: 6 gears, SM ratio Gear Ratios: 1st-14:35 / 2nd-16:28 / 3rd-21:28 / 4th-21:23 / 5th-23:22 / 6th-23:20 Primary Drive: 36:79, straight cut spur gear Final Drive: 16/42 (2.62:1) x-ring 520 (5/8 x 1/4) chain, 120 links (pins) Trans Oil Viscosity: 10W50, capacity 2100cc (includes frame reservoir) Clutch multi-disc in oil bath Clutch Actuation: hydraulically operated Spark Plug: NGK DCPR 8 E (gap = 0.90mm) Fuel: premium fuel (92+ U.S. octane) Fuel Capacity: 13.5 liters / 3.57 U.S. gallons Carburetor: Keihin EMS with EPT (electric power throttle) Ignition: Kokusan digital 12V-200w Ignition: Kokusan digital 12V-200w Ignition Timing: 38° B.T.D.C. at 6000 rpm Coolant: 1.0 liters 50/50 mix of antifreeze + distilled water -25 °C (-13 °F) Frame Type: mainframe: chromoly tubular space frame Fork: WP-USD Ø 48 0mm 4860 MA-PA Fork Setting Code: 14187A07 Fork Air Chamber Length: 10mm Fork Air Chamber Length: 10mm <td>Silencer:</td> <td>SM EPA 40 CFR 205.159 x 2</td>	Silencer:	SM EPA 40 CFR 205.159 x 2
Transmission: 6 gears, SM ratio Gear Ratios: 1st-14:35 / 2nd-16:28 / 3rd-21:28 / 4th-21:23 / 5th-23:22 / 6th-23:20 Primary Drive: 36:79, straight cut spur gear Final Drive: 16/42 (2.62:1) x-ring 520 (5/8 x 1/4) chain, 120 links (pins) Trans Oil Viscosity: 10W/50, capacity 2100cc (includes frame reservoir) Clutch: multi-disc in oil bath Clutch Actuation: hydraulically operated Spark Plug: NGK DCPR 8 E (gap = 0.90mm) Fuel: premium fuel (92+ U.S. octane) Fuel: premium fuel (92+ U.S. octane) Fuel Capacity: 13.5 liters / 3.57 U.S. gallons Carburetor: Kelhin EMS with EPT (electric power throttle) Ignition: Kokusan digital 12V-200w Ignition Timing: 38° B.T.D.C. at 6000 rpm Coolant: 1.0 liters 50/50 mix of antifreeze + distilled water -25 °C (-13 °F) Frame Type: mainframe: chromoly tubular space frame Fork: WP-USD 0 48.0mm 4860 MA-PA Fork Setting Code: 14187A07 Fork Air Chamber Length: 10.82° Fork Air Chamber Length: 110mm Fork Settings: sp	Bore/Stroke:	102.0/80.0mm
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Shock Absorber Settings: spring: 70/260, preload: 20.0mm, comp adj: 3, rebound: 5 Rear Wheel Travel: 265mm / 10.43" Rear Brake: 240mm / 9.44" disc, Brembo single piston caliper Rear Tire: 160/60 R 17" Tire Air Pressure F/R 28.0 psi/2.0 bar / 28.0 psi/2.0 bar Seat Height: 900mm / 35.43" Wheelbase: 1480mm ±10mm / 58.26" ±.4" Ground Clearance: 290mm / 11.41"	Shock Absorber:	WP suspension, external adjustable compression and rebound
Rear Wheel Travel: 265mm / 10.43" Rear Brake: 240mm / 9.44" disc, Brembo single piston caliper Rear Tire: 160/60 R 17" Tire Air Pressure F/R 28.0 psi/2.0 bar / 28.0 psi/2.0 bar Seat Height: 900mm / 35.43" Wheelbase: 1480mm ±10mm / 58.26" ±.4" Ground Clearance: 290mm / 11.41"	Shock Absorber Setting Code:	01187A02
Rear Wheel Travel: 265mm / 10.43" Rear Brake: 240mm / 9.44" disc, Brembo single piston caliper Rear Tire: 160/60 R 17" Tire Air Pressure F/R 28.0 psi/2.0 bar / 28.0 psi/2.0 bar Seat Height: 900mm / 35.43" Wheelbase: 1480mm ±10mm / 58.26" ±.4" Ground Clearance: 290mm / 11.41"	Shock Absorber Settings:	spring: 70/260, preload: 20.0mm, comp adj: 3, rebound: 5
Rear Tire: 160/60 R 17" Tire Air Pressure F/R 28.0 psi/2.0 bar / 28.0 psi/2.0 bar Seat Height: 900mm / 35.43" Wheelbase: 1480mm ±10mm / 58.26" ±.4" Ground Clearance: 290mm / 11.41"	Rear Wheel Travel:	
Rear Tire: 160/60 R 17" Tire Air Pressure F/R 28.0 psi/2.0 bar / 28.0 psi/2.0 bar Seat Height: 900mm / 35.43" Wheelbase: 1480mm ±10mm / 58.26" ±.4" Ground Clearance: 290mm / 11.41"	Rear Brake:	240mm / 9.44" disc, Brembo single piston caliper
Seat Height: 900mm / 35.43" Wheelbase: 1480mm ±10mm / 58.26" ±.4" Ground Clearance: 290mm / 11.41"	Rear Tire:	
Seat Height: 900mm / 35.43" Wheelbase: 1480mm ±10mm / 58.26" ±.4" Ground Clearance: 290mm / 11.41"	Tire Air Pressure F/R	28.0 psi/2.0 bar / 28.0 psi/2.0 bar
Wheelbase: 1480mm ±10mm / 58.26" ±.4" Ground Clearance: 290mm / 11.41"	Seat Height:	
Ground Clearance: 290mm / 11.41"		1480mm ±10mm / 58.26" ±.4"
	Ground Clearance:	
	Weight:	139.5 kgs / 307.5 lbs. (dry)

Specifications are subject to change without notice.

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