

	F4 S	F4 S 1+1	F4 SPR	F4 AGOSTINI	F4 BRUTALE serie oro	F4 BRUTALE S
ENGINE						
Type	Four cylinder, 4 stroke, 16 valve	Four cylinder, 4 stroke, 16 valve	Four cylinder, 4 stroke, 16 valve	Four cylinder, 4 stroke, 16 valve	Four cylinder, 4 stroke, 16 valve	Four cylinder, 4 stroke, 16 valve
Timing system	"D.O.H.C", radial valve					
Total displacement	45.7 cu. in.	45.7 cu. in.	45.7 cu. in.	45.7 cu. in.	45.7 cu. in.	45.7 cu. in.
Compression ratio	12:1	12:1	12:1	12:1	12:1	12:1
Starting	Electric	Electric	Electric	Electric	Electric	Electric
Bore x stroke	2.9 in. x 1.7 in.	2.9 in. x 1.7 in.	2.9 in. x 1.7 in.	2.9 in. x 1.7 in.	2.9 in. x 1.7 in.	2.9 in. x 1.7 in.
Max. horse power - r.p.m. (at the crankshaft)	100,7 Kw (137 CV) at 12600 - Lim. 13300 r.p.m.		107,3 Kw (146 CV) at 13000 - Lim. 13900 r.p.m. with RG3 + Eprom		100,7 Kw (137 CV) at 12600 - Lim. 13300 r.p.m.	93,4 Kw (127 CV) at 12500 r.p.m. - Lim. 13100 r.p.m.
Max. torque - r.p.m.	8,3 Kgm at 10500	8,3 Kgm at 10500	8,2 Kgm at 11000	8,3 Kgm at 10500	7,9 Kgm at 10500	7,9 Kgm at 10500
Cooling system	Liquid cooled, water-oil heat exchanger	Liquid cooled, water-oil heat exchanger	Liquid cooled, water-oil heat exchanger	Liquid cooled, water-oil heat exchanger	Liquid cooled, oil cooler	Liquid cooled, oil cooler
Engine management system	"Weber Marelli" 1,6 M ignition - injection integrated system; induction discharge electronic ignition, "Multipoint" electronic injection					
Clutch	Wet, multi - disc	Wet, multi - disc	Wet, multi - disc	Wet, multi - disc	Wet, multi - disc	Wet, multi - disc
Gear box	Cassette gearbox; six speed, constant mesh					
Primary drive	47/81	47/81	47/81	47/81	47/81	47/81
Gear ratio	-		Close ratio (n°3 final ratio equipment)		-	
First gear: Speed*	13/38 71.6 mph at 13300 r.p.m.	13/38 71.6 mph at 13300 r.p.m.	15/37 90.9 mph 93.3 mph 95.8 mph at 13900 r.p.m.	13/38	71.6 mph at 13300 r.p.m.	13/38 64.2 mph at 13100 r.p.m. 13/38
64.2 mph at 13100 r.p.m.						
Second gear: Speed*	14/31 94.5 mph at 13300 r.p.m.	14/31 94.5 mph at 13300 r.p.m.	16/33 108.7 mph 111.6 mph 114.6 mph at 13900 r.p.m.	14/31 94.5 mph at 13300 r.p.m.	14/31 84.8 mph at 13100 r.p.m.	14/31 84.8 mph at 13100 r.p.m.
Third gear: Speed*	18/32 117.7 mph at 13300 r.p.m.	18/32 117.7 mph at 13300 r.p.m.	15/27 124.6 mph 127.8 mph 131.3 mph at 13900 r.p.m.	18/32 117.7 mph at 13300 r.p.m.	18/32 105.6 mph at 13100 r.p.m.	18/32 105.6 mph at 13100 r.p.m.
Fourth gear: Speed*	20/30 139.5 mph at 13300 r.p.m.	20/30 139.5 mph at 13300 r.p.m.	19/30 142.0 mph 145.8 mph 149.7 mph at 13900 r.p.m.	20/30 139.5 mph at 13300 r.p.m.	20/30 125.1 mph at 13100 r.p.m.	20/30 125.1 mph at 13100 r.p.m.
Fifth gear: Speed*	22/29 158.7 mph at 13300 r.p.m.	22/29 158.7 mph at 13300 r.p.m.	23/33 156.3 mph 160.4 mph 164.8 mph at 13900 r.p.m.	22/29 158.7 mph at 13300 r.p.m.	22/29 142.3 mph at 13100 r.p.m.	22/29 142.3 mph at 13100 r.p.m.
Sixth gear: Speed*	21/25 175.7 mph at 13300 r.p.m.	21/25 175.7 mph at 13300 r.p.m.	18/24 168.2 mph 172.6 mph 177.6 mph at 13900 r.p.m.	21/25 175.7 mph at 13300 r.p.m.	19/23 155.3 mph at 13100 r.p.m. electronically limited	19/23 155.3 mph at 13100 r.p.m.
electronically limited						
Final velocity ratio	15x40	15x40	15x39 15 x 38 15x37	15x40	14x41	14x41
ELECTRICAL EQUIPMENT						
Voltage	12 V	12 V	12 V	12 V	12 V	12 V
Alternator	650 W at 5000 r.p.m.	650 W at 5000 r.p.m.	650 W at 5000 r.p.m.	650 W at 5000 r.p.m.	650 W at 5000 r.p.m.	650 W at 5000 r.p.m.
Battery	12 V - 9 Ah	12 V - 9 Ah	12 V - 9 Ah	12 V - 9 Ah	12 V - 9 Ah	12 V - 9 Ah
DIMENSIONS AND WEIGHT						
Wheelbase	55.04 in.	55.04 in.	55.04 in.	55.04 in.	55.65 in.	55.65 in.
Overall length	79.01 in.	79.01 in.	79.01 in.	79.01 in.	79.75 in.	79.75 in.
Overall width	26.97 in.	26.97 in.	26.97 in.	26.97 in.	32.28 in.	32.28 in.
Saddle height	31.10 in.	31.10 in.	31.10 in.	31.10 in.	31.70 in.	31.70 in.
Min. ground clearance	5.12 in.	5.12 in.	5.12 in.	5.12 in.	5.32 in.	5.32 in.
Trail	3.87 in.	3.87 in.	3.87 in.	3.87 in.	4.00 in.	4.00 in.
Dry weight	421.1 lb	423.3 lb	413.6 lb	413.6 lb	393.8 lb	407.9 lb
Fuel tank capacity	4.6 Brit. gal. (reserve fuel: 0.88 Brit. gal.)	4.6 Brit. gal. (reserve fuel: 0.88 Brit. gal.)	4.6 Brit. gal. (reserve fuel: 0.88 Brit. gal.)	4.6 Brit. gal. (reserve fuel: 0.88 Brit. gal.)	4.16 Brit. gal. (reserve fuel: 0.88 Brit. gal.)	4.16 Brit. gal. (reserve fuel: 0.88 Brit. gal.)
PERFORMANCE						
Maximum speed*	175.7 mph	175.7 mph	177.6 mph (maximum speed 182.2 mph with 15/36 final drive)		175.7 mph	155.3 mph electronically limited 155.3 mph elec- tronically limited
FRAME						
Type	CrMo Steel tubular trellis (TIG welded)					
Rear swing arm pivot plates: material	Aluminium alloy	Aluminium alloy	Aluminium alloy	Aluminium alloy	Magnesium alloy	Aluminium alloy
FRONT SUSPENSION						
Type	"UPSIDE - DOWN" telescopic hydraulic fork with rebound-compression damping and spring preload adjustment					
Rod dia.	1.93 in.	1.93 in.	1.97 in.	1.97 in. with Titanium Nitride anti-friction treatment	1.97 in. with Titanium Nitride anti-friction treatment	1.97 in.
Travel on leg axis	4.65 in.	4.65 in.	4.65 in.	4.65 in.	5.00 in.	5.00 in.
REAR SUSPENSION						
Type	Progressive, single shock absorber with rebound - compression damping and spring preload (F4 SPR, F4 Agostini and F4 Brutale : rear suspension fully adjustable for high/low speed damping)					
Single sided swing arm: material	Aluminium alloy	Aluminium alloy	Aluminium alloy	Aluminium alloy	Magnesium alloy	Aluminium alloy
Wheel travel	4.72 in.	4.72 in.	4.72 in.	4.72 in.	4.72 in.	4.72 in.
BRAKE						
Front brake	Double steel floating disc					
Flange: material	Steel	Steel	Aluminium	Aluminium	Aluminium	Steel
disc dia.; caliper piston number and dia.	12.2 in.; 6 with 0.89 in. dia.; 1.00 in. dia.; 1.19 in. dia.					
Rear brake					Single steel disc	
disc dia.; caliper piston number and dia.	8.27 in.; 4 with 1.00 in. dia.					
RIM						
Front: Material / size	Aluminium alloy 3,50 " x 17 "	Aluminium alloy 3,50 " x 17 "	Aluminium alloy 3,50 " x 17 "	Forged aluminium alloy 3,50 " x 17 "	Magnesium alloy 3,50 " x 17 "	Aluminium alloy 3,50 " x 17 "
Rear: Material / size	Aluminium alloy 6,00 " x 17 "	Aluminium alloy 6,00 " x 17 "	Aluminium alloy 6,00 " x 17 "	Forged aluminium alloy 6,00 " x 17 "	Magnesium alloy 6,00 " x 17 "	Aluminium alloy 6,00 " x 17 "
TYRE						
Front	120/65 - ZR 17 (56 W)	120/65 - ZR 17 (56 W)	120/65 - ZR 17 (56 W)	120/65 - ZR 17 (56 W)	120/65 - ZR 17 (56 W)	120/65 - ZR 17 (56 W)

* = Top speed attained on closed course.

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