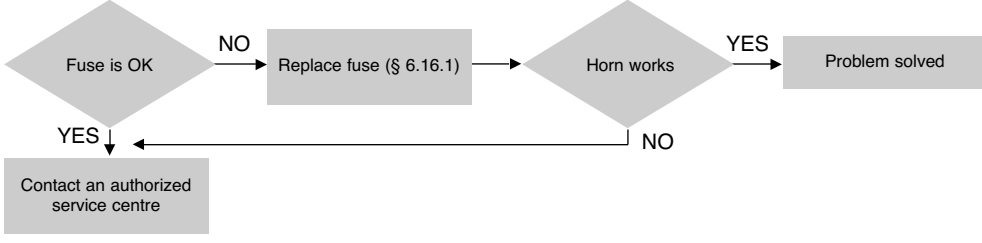
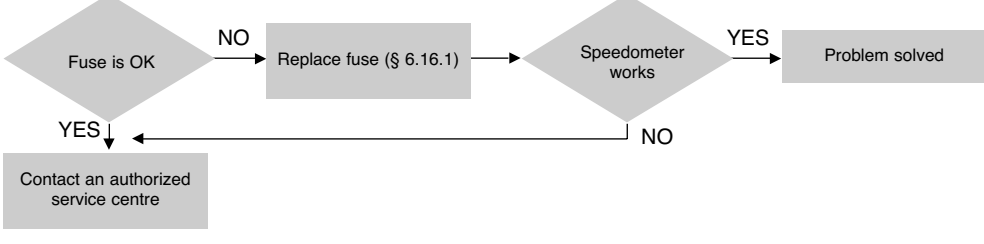
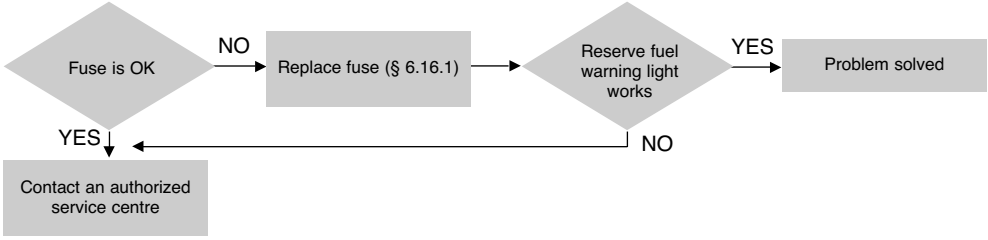
HORN DOES NOT WORK



SPEEDOMETER DOES NOT WORK



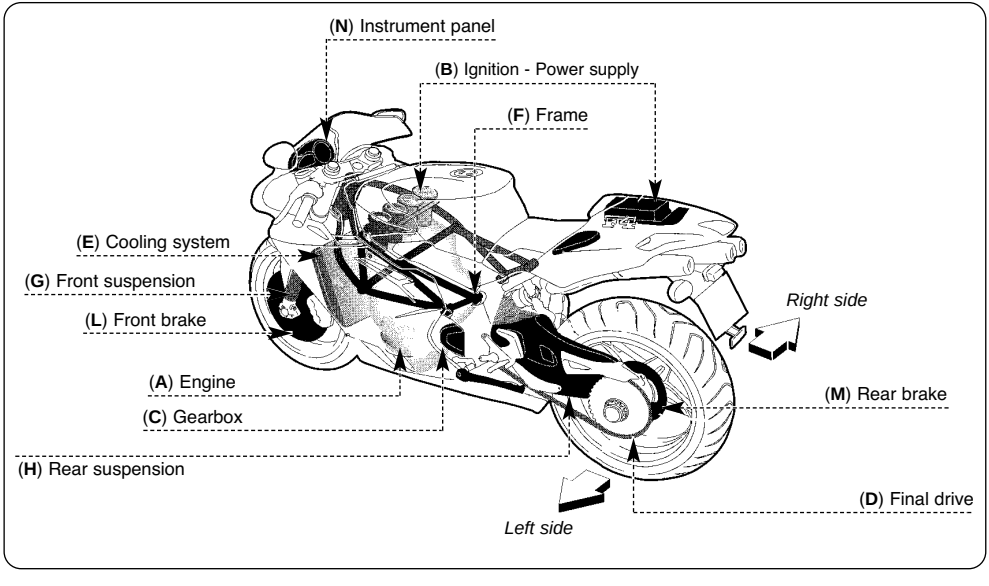
RESERVE FUEL WARNING LIGHT DOES NOT WORK



ALTERNATOR DOES NOT CHARGE BATTERY

Contact an authorized service centre

8.1. Motorcycle overview



A - Engine: four-stroke, inline four-cylinder. Double-overhead camshaft valve train with radial valves. Wet sump lubrication.

B - Ignition - Power supply: integrated ignition-injection system. Inductive-discharge electronic ignition. “Multipoint” electronic injection.

C - Gearbox: removable, six-speed, with constant-mesh gears.

D - Final drive: consisting of drive sprocket, rear sprocket and chain.

E - Cooling system: liquid cooling with water-oil heat exchanger.

F - Frame: tubular steel trellis with aluminum (magnesium ★) side plates.

G - Front suspension: inverted hydraulic fork with external adjusting system.

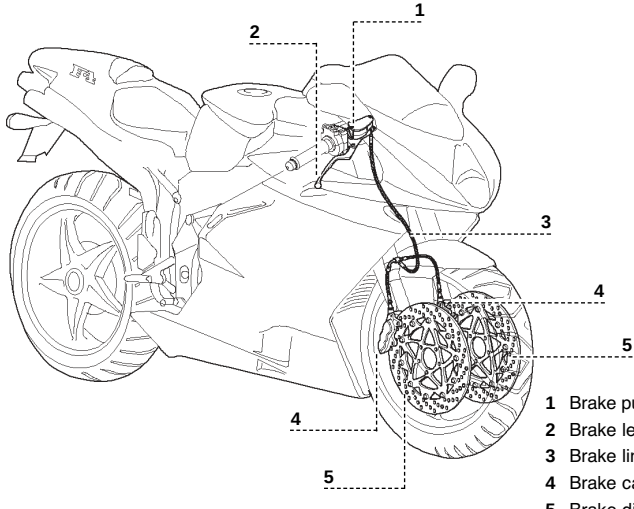
H - Rear suspension: progressive, with single-sided swingarm and single shock absorber with external adjusting system.

L - Front brake: dual semi-floating disc with six-piston calipers.

M - Rear brake: single disc with four-piston caliper.

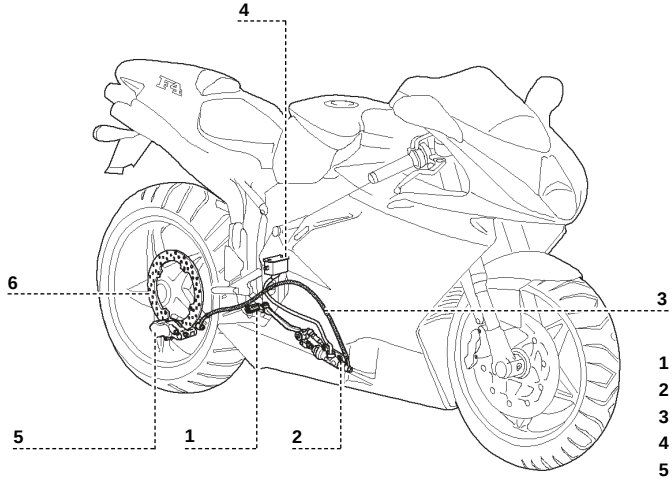
N - Instrument panel: with warning lights and analogue and digital instruments.

8.1.1 Front brake circuit



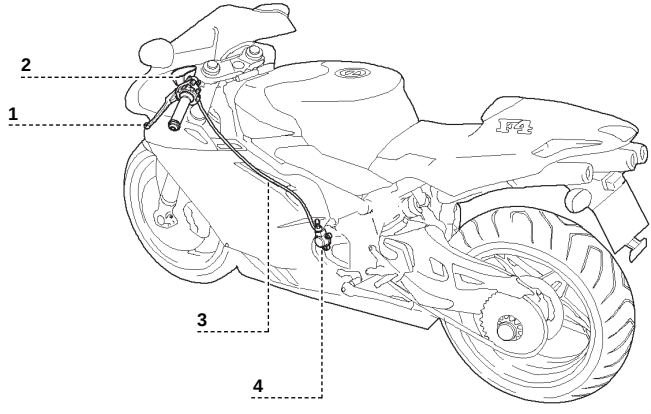
1 Brake pump assembly
2 Brake lever
3 Brake line
4 Brake caliper
5 Brake discs

8.1.2. Rear brake circuit



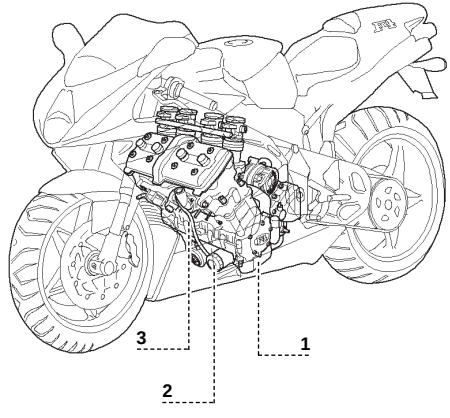
1 Brake lever
2 Brake pump
3 Brake line
4 Brake fluid reservoir
5 Brake caliper
6 Brake disc

8.1.3. Clutch circuit



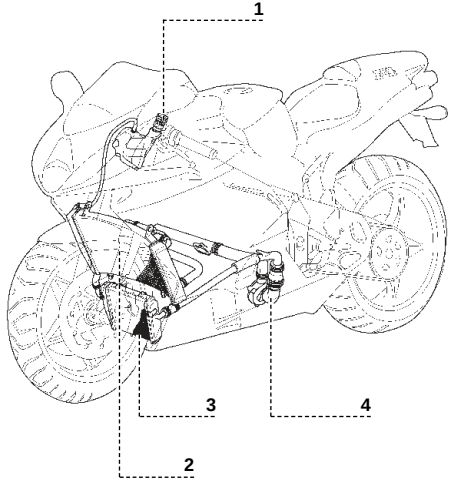
1 Clutch lever
2 Clutch pump assembly
3 Clutch line
4 Clutch cylinder assembly

8.1.4. Engine lubrication



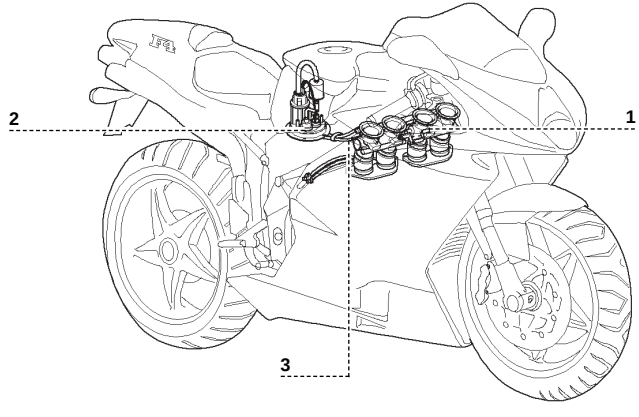
1 Oil sump
2 Oil filter
3 Cylinder head oil feed pipe

8.1.5. Coolant circuit

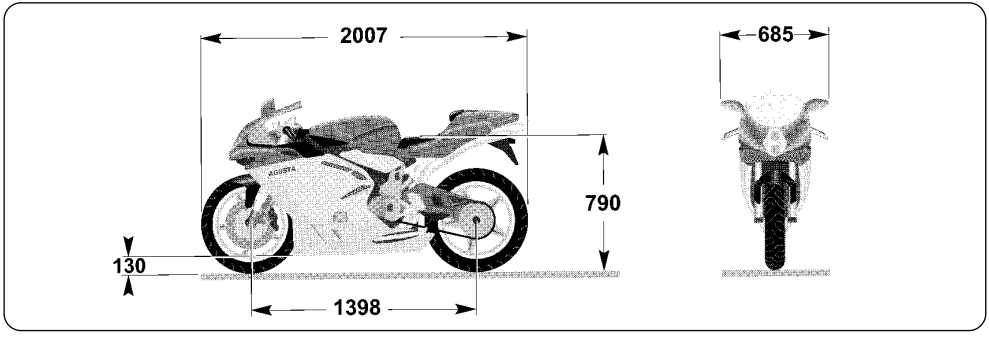


1 Expansion tank
2 Upper radiator
3 Lower radiator
4 Coolant pump

8.1.6. Fuel system



1 Throttle bodies
2 Fuel pump
3 Fuel line



8.2. Specifications

Description	F4 750 ORO	F4 750 S	F4 750 S (1+1)
SPECIFICATIONS			
Wheelbase (mm)	1398	1398	1398
Overall length (mm)	2007	2007	2007
Max. width (mm)	685	685	685
Seat height (mm)	790	790	790
Min. ground clearance (mm)	130	130	130
Trail (mm)	98.5	98.5	98.5

Specifications

Description	F4 750 ORO	F4 750 S	F4 750 S (1+1)
Dry weight (kg)	184	191	192
Fuel tank capacity (l)	20	20	20
Reserve fuel (l)	4	4	4
Oil in crankcase (kg)	3.5	3.5	3.5
PERFORMANCE			
Top speed (km/h), over	281	281	281
Average fuel consumption (km/l)	13	13	13
Max. horsepower at rpm (on shaft)	kW 93/12,500 cv 126/12,500	kW 93/12,500 cv 126/12,500	kW 93/12,500 cv 126/12,500
Max. torque at rpm	Nm 74/10,500 Kgm 7.5/10,500 ft lb 54.5/10,500	Nm 74/10,500 Kgm 7.5/10,500 ft lb 54.5/10,500	Nm 74/10,500 Kgm 7.5/10,500 ft lb 54.5/10,500
ENGINE			
Type	Four-cylinder, four-stroke		
Bore (mm)	73.8	73.8	73.8
Stroke (mm)	43.8	43.8	43.8
Total displacement (cm^3)	749.4	749.4	749.4
Compression ratio	12 : 1	12 : 1	12 : 1
Starting	Electric starter		
Cooling system	Liquid cooling with water-oil heat exchanger		

Specifications

Description	F4 750 ORO	F4 750 S	F4 750 S (1+1)
Crankcase and covers	sand-cast	die-cast	die-cast
Head and cylinders	sand-cast	chill-cast	chill-cast
Valves	bimetal - Nimonic head	bimetal/ single-metal	bimetal/ single-metal
VALVE TRAIN			
Type	Double-overhead camshaft, radial valves		
LUBRICATION			
Type	Wet sump		
IGNITION - POWER SUPPLY			
Type	"Weber-Marelli" 1.6 M integrated ignition-injection system Inductive-discharge electronic ignition, "Multipoint" electronic injection		
Spark plugs	Champion G59C or NGK CR8E	Champion G59C or NGK CR8E	Champion G59C or NGK CR8E
Spark gap (mm)	0.5 ÷ 0.6	0.5 ÷ 0.6	0.5 ÷ 0.6
CLUTCH			
Type	Multiple-disc in oil bath		
PRIMARY DRIVE			
Number of teeth on crankshaft gear	Z = 50	Z = 50	Z = 50
Number of teeth on clutch gear	Z = 79	Z = 79	Z = 79
Transmission ratio	1.58	1.58	1.58

Specifications

Description	F4 750 ORO	F4 750 S	F4 750 S (1+1)
SECONDARY DRIVE			
Number of teeth on front sprocket	Z = 14	Z = 14	Z = 14
Number of teeth on rear sprocket	Z = 41	Z = 41	Z = 41
Transmission ratio	2.93	2.93	2.93
TRANSMISSION			
Type	Removable, six-speed gearbox with constant-mesh gears		
Gear ratios (overall ratios)			
First gear	2.92 (13.53)	2.92 (13.53)	2.92 (13.53)
Second gear	2.21 (10.25)	2.21 (10.25)	2.21 (10.25)
Third gear	1.78 (8.23)	1.78 (8.23)	1.78 (8.23)
Fourth gear	1.50 (6.94)	1.50 (6.94)	1.50 (6.94)
Fifth gear	1.32 (6.10)	1.32 (6.10)	1.32 (6.10)
Sixth gear	1.19 (5.51)	1.19 (5.51)	1.19 (5.51)
FRAME			
Type	Trellis made up of drawn CrMo 25 steel tubes		
Swingarm pivot plates	Magnesium alloy	Aluminum alloy	Aluminum alloy
FRONT SUSPENSION			
Type	Hydraulic fork with inverted rods and external adjustment of rebound and compression damping and of spring preload		
Ø Rod (mm)	49	49	49
Travel on leg axis (mm)	118	118	118

Specifications

Description	F4 750 ORO	F4 750 S	F4 750 S (1+1)
REAR SUSPENSION			
Type	Progressive, with single-sided swingarm and single shock absorber adjustable for rebound, compression and spring preload		
Swingarm	Magnesium alloy	Aluminum alloy	Aluminum alloy
Wheel travel (mm)	120	120	120
FRONT BRAKE			
Type	Dual floating disc with steel braking band		
Ø Disc (mm)	310	310	310
Disc flange	Aluminium	Steel	Steel
Calipers, piston diameters (mm)	6-piston, Ø 22.65; Ø 25.4; Ø 30.23		
REAR BRAKE			
Type	Steel disc		
Ø Disc (mm)	210	210	210
Caliper, piston diameter (mm)	4-piston, Ø 25.4 mm		
FRONT RIM			
Material	Magnesium alloy	Aluminum alloy	Aluminum alloy
Dimensions	3.50” x 17”	3.50” x 17”	3.50” x 17”
REAR RIM			
Material	Magnesium alloy	Aluminum alloy	Aluminum alloy

Specifications

Description	F4 750 ORO		F4 750 S	F4 750 S (1+1)
Dimensions	Standard	Optional		
	6.00" x 17"	5.75" x 17"	6.00" x 17"	6.00" x 17"
TYRES				
Front	120/65-ZR 17		120/65-ZR 17	120/65-ZR 17
Rear	190/50-ZR 17 o 180/50-ZR 17		190/50-ZR 17 o 180/50-ZR 17	190/50-ZR 17 o 180/50-ZR 17
Brand and type	PIRELLI - Dragon Evo MTR21 Corsa METZELER - MEZ3 Racing MICHELIN - Pilot Sport		PIRELLI - Dragon Evo MTR21 Corsa METZELER - MEZ3 Racing MICHELIN - Pilot Sport	PIRELLI - Dragon Evo MTR21 Corsa METZELER - MEZ3 Racing MICHELIN - Pilot Sport
Inflating pressure				
Front	PIRELLI-METZELER 2.5 bar (36 psi), MICHELIN 2.2 bar (32 psi)			
Rear	PIRELLI-METZELER 2.3 bar (33 psi), MICHELIN 2.4 bar (35 psi)			
ELECTRICAL EQUIPMENT				
Equipment voltage	12V		12V	12V
Low beam	12V 55W		12V 55W	12V 55W
High beam	12V 60W		12V 60W	12V 60W
Dual-bulb front parking light	12V 5W		12V 5W	12V 5W
Rear light	12V 5W		12V 5W	12V 5W
Brake light	12V 21W		12V 21W	12V 21W
Turn indicators	12V 10W		12V 10W	12V 10W

Specifications

Description	F4 750 ORO	F4 750 S	F4 750 S (1+1)
Battery	12V - 9Ah	12V - 9Ah	12V - 9Ah
Alternator	650 W at 5000 rpm	650 W at 5000 rpm	650 W at 5000 rpm
BODYWORK			
Fairing	Carbon fibre	Thermoplastic material	Thermoplastic material
Windscreen	Carbon fibre	Thermoplastic material	Thermoplastic material
Tail section	Carbon fibre	Thermoplastic material	Thermoplastic material
Fuel tank	Carbon fibre	Steel	Steel
Air box	Carbon fibre	Thermoplastic material	Thermoplastic material
Air scoops	Carbon fibre	Thermoplastic material	Thermoplastic material
Air box side panels	Carbon fibre	Thermoplastic material	Thermoplastic material
Front mudguard	Carbon fibre	Thermoplastic material	Thermoplastic material
Electrical equipment covers	Carbon fibre	Aluminum	Aluminum
Chain guards	Carbon fibre	Thermoplastic material	Thermoplastic material
Battery support	Carbon fibre	Steel	Steel
Exhaust pipe guard	Carbon fibre	Aluminum	Aluminum
Heat shield	Carbon fibre	Thermoplastic material	Thermoplastic material
Number-plate holder	Carbon fibre	Thermoplastic material	Thermoplastic material

8.3. Carbon components ★

1 - Windscreen
2 - Right-hand side fairing
3 - Left-hand side fairing
4 - Undercowl
5 - Tail section
6 - Fuel tank
7 - Filter box
8 - Right-hand air scoop
9 - Left-hand air scoop
10 - Electrical equipment cover (right side)
11 - Electrical equipment cover (left side)
12 - Right-hand side panel
13 - Left-hand side panel
14 - Ignition switch and steering lock cover
15 - Front mudguard
16 - Cooling fan duct
17 - Exhaust pipe guard
18 - Battery support
19 - Heat shield
20 - Lower chain guard
21 - Upper chain guard
22 - Number-plate holder

