

TECHNICAL DATA - CHASSIS

CHASSIS	FE 450, 550, 650e/6	FS 450, 650e/6	FS 650c/6
Frame	tubular chrome-molybdenum-steel frame, powder-coated		
Fork	WP Up Side Down 4860 MXMA + PA		
Spring travel, front/rear	295/320 mm	275/288 mm	
Rear suspension	WP Progressive Damping System shock absorber, aluminum rear swinging fork		
Front brake	Ø 260 mm brake disk, floating brake caliper	Ø 310 mm radial brake caliper	
Brake disk front	minimum thickness 2.5 mm	minimum thickness 4.5 mm	
Rear brake	Disk brake, perforated Ø 220 mm brake disk, floating brake caliper		
Brake disk rear	minimum thickness 3.5 mm	minimum thickness 4.5 mm	
Front tire	90/90 - 21"	120/70 - 17"	12/60 - 17"
Air pressure, off road	1.0 bar	-	-
Air pressure, on road/alone	1.5 bar	1.5 bar	1.5 bar
Rear tire	140/80 - 18"	150/60 - 17"	16/63 - 17"
Air pressure, off road	1.0 bar	-	-
Air pressure, on road/alone	2.0 bar	2.0 bar	2.0 bar
Fuel tank capacity	FE: 9 liters / 7.5 liters (EU)		FS: 7.5 liters
Gear ratio - rear wheel	16:40 (14:48, 15:48, 15:45)	16:38 (15:40)	16:38 (15:40)
Chain	5/8x1/4"		
Available rear sprockets	38t, 40t, 42t, 45t, 48t, 49t, 50t, 51t, 52t		
Lighting	Headlight Parking light Brake light Turn signal	HS1 12V 35/35W 12V 5W (socket W2, 1x9,5d) 12V 21/5W (socket BaY15d) 12V 10W (socket Ba15s)	
Battery	maintenance-free battery 12V 7Ah		
Steering head angle	63°	63.5°	
Wheel base	1490 ± 10 mm	1481 ± 10 mm	
Seat height, unloaded	930 mm	870 mm	
Ground clearance, unloaded	380 mm	320 mm	

STANDARD ADJUSTMENT - FORK

	FE 450, 550, 650e/6 WP 4860 MXMA + PA 14.45.7D.02	FS 450e/6, 650e/6, 650c/6 WP 4860 MXMA + PA 14.45.7D.03
Compression adjuster	19	20
Rebound adjuster	20	15
Spring	4.4 N/mm	4.6 N/mm
Spring preload	2 turns	5 turns
Airchamber lenght	105 mm	100 mm
Fork oil	4860 0401 Motorex	4860 0401 Motorex

STANDARD ADJUSTMENT - SHOCK ABSORBER

	FE 450, 550, 650e/6 WP 5018 PDS DCC 12.45.7D.02	FS 450e/6, 650e/6, 650c/6 WP 5018 PDS DCC 12.45.7D.03
Compression adjuster	18 LS (low speed) 2 HS (high speed)	12 LS (low speed) 2 HS (high speed)
Rebound adjuster	20	10
Spring	84/250	88/250
Spring preload	5 mm	11 mm

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TIGHTENING TORQUES - CHASSIS		
Collar screw, front wheel spindle	M24x1,5	40 Nm
Brake caliper, front FE	M8	Loctite 243 + 25 Nm
Brake caliper, front FS	M10	40 Nm
Collar screw brake pads front - FS models only	M6	10 Nm
Brake discs	M6	14 Nm
Clamping screws, upper fork bridge FS + FE	M8	17 Nm
Clamping screws, lower fork bridge FS + FE	M8	12 Nm
Clamping nut fork bridge	M22x1	20 Nm
Clamping screws, fork stubs	M8	15 Nm
Collar nut, rear wheel spindle	M20x1,5	80 Nm
Hexagon nut, swing arm bolt	M16x1,5	100 Nm
Hexagon collar screw, handlebar clamp	M8	20 Nm
Allan head screw, handlebar support	M10	Loctite 243 + 40 Nm
Shock absorber, top	M12	Loctite 243 + 70 Nm
Shock absorber, bottom	M10	40 Nm
Sprocket screws	M8	35 Nm
Ball joint for push rod	M6	Loctite 243 + 10 Nm
Engine mounting bolt	M8	25 Nm
Side stand	M8	20 Nm
Rim lock	M8	10 Nm
Screw adjusting ring spring preload shock abs	M6	8 Nm
Spoke nipple	M4.5 / M5	4.5 - 6 Nm
Other screws on chassis	M6	10 Nm
	M8	25 Nm
	M10	45 Nm
Other collar nuts on chassis	M6	15 Nm
	M8	30 Nm
	M10	50 Nm