

Frame	Lattice frame made of chrome molybdenum steel tubing, powder-coated
Fork	WP Suspension Up Side Down 4860 ROMA
Shock absorber	WP Suspension 4618 with Pro-Lever deflector
Suspension travel	
front	210 mm (8.27 in)
Rear	210 mm (8.27 in)
Brake system	
front	Disc brake with radially screwed four-piston brake caliper, floating brake disc
Rear	Disc brake with single-piston brake caliper, floating
Diameter of brake discs	
front	320 mm (12.6 in)
Rear	240 mm (9.45 in)
Wear limit of brake discs (690 SUPERMOTO)	
front	4.0 mm (0.157 in)
Rear	4.5 mm (0.177 in)
Wear limit of brake discs (690 SUPERMOTO R)	
front	3.6 mm (0.142 in)
Rear	4.5 mm (0.177 in)
Tire air pressure, road, solo	
front	2.0 bar (29 psi)
Rear	2.0 bar (29 psi)
Tire air pressure with passenger / fully loaded	
front	2.0 bar (29 psi)

Rear	2.2 bar (32 psi)
Rear wheel gearing	16:40
Chain	5/8 x 1/4" X-ring
Steering head angle	63.5°
Wheelbase	1,472±15 mm (57.95±0.59 in)
Seat height unloaded	880 mm (34.65 in)
Ground clearance unloaded	245 mm (9.65 in)
Weight without fuel	154 kg (340 lb.)
Maximum permissible front axle load	150 kg (331 lb.)
Maximum permissible rear axle load	200 kg (441 lb.)
Maximum permissible overall weight	350 kg (772 lb.)

Battery	YTZ10S	Battery voltage: 12 V Nominal capacity: 8.6 Ah maintenance-free
Fuse	58011109130	30 A
Fuse	75011088015	15 A
Fuse	75011088010	10 A

Lighting equipment

Headlight	H4/P43t	12 V 60/55 W
Parking light	W2,1x9,5d	12 V 5 W
Instrument lights and indicator lamps	LED	

Flasher light	BAU15s	12 V 10 W
Brake / tail light	LED	
Licence plate lamp	W2,1x9,5d	12 V 5 W

Validity	Front tire	Rear tire
(690 SUPERMOTO)	120/70 R 17 58 H TT Bridgestone BT090F	160/60 R 17 69 H TT Bridgestone BT090R Pro
(690 SUPERMOTO R)	120/70 R 17 58 H TL Dunlop Sportmax GPR Alpha 10	160/60 R 17 69 H TL Dunlop Sportmax GPR Alpha 10
For further information, see: http://www.ktm.com		

Capacity - fuel

Fuel tank content	13.5 l (3.57 US gal)	Super unleaded (ROZ 95 / RON 95 / PON 91) (☛ P. 152)
Fuel reserve	2.5 l (2.6 qt.)	

Fork part number (690 SUPERMOTO)	14.18.7D.07
Fork part number (690 SUPERMOTO R)	14.18.7D.08
Fork	WP Suspension Up Side Down 4860 ROMA
Compression damping (690 SUPERMOTO R)	
Comfort	20 clicks
Standard	15 clicks
Sport	10 clicks
full payload	10 clicks
Rebound damping	
Comfort	20 clicks
Standard	15 clicks
Sport	10 clicks
full payload	10 clicks
Spring length with preload spacer(s)	430 mm (16.93 in)
Spring rate	
Weight of rider: 65... 75 kg (143... 165 lb.)	4.8 N/mm (27.4 lb/in)
Weight of rider: 75... 85 kg (165... 187 lb.)	5.2 N/mm (29.7 lb/in)
Weight of rider: 85... 95 kg (187... 209 lb.)	5.6 N/mm (32 lb/in)
Air chamber length	100 ⁺³⁰ ₋₂₀ mm (3.94 ^{+1.18} _{-0.79} in)
Fork length	850 mm (33.46 in)
Fork oil (☛ P. 153)	SAE 5

Shock absorber part number (690 SUPERMOTO)	15.18.9D.07
Shock absorber part number (690 SUPERMOTO R)	15.18.7D.08
Shock absorber	WP Suspension 4618 with Pro-Lever deflector
Compression damping, high-speed (690 SUPERMOTO R)	
Comfort	2 turns
Standard	1.5 turns
Sport	1 turn
full payload	1 turn
Compression damping, low-speed (690 SUPERMOTO R)	
Comfort	20 clicks
Standard	15 clicks
Sport	10 clicks
full payload	10 clicks
Rebound damping	
Comfort	20 clicks
Standard	15 clicks
Sport	10 clicks
full payload	10 clicks
Spring preload	12 mm (0.47 in)
Spring rate	
Weight of rider: 65... 75 kg (143... 165 lb.)	60 N/mm (343 lb/in)
Weight of rider: 75... 85 kg (165... 187 lb.)	65 N/mm (371 lb/in)
Weight of rider: 85... 95 kg (187... 209 lb.)	70 N/mm (400 lb/in)
Spring length	220 mm (8.66 in)

TECHNICAL DATA - SHOCK ABSORBER

Gas pressure	12 bar (174 psi)
Static sag	27 mm (1.06 in)
Riding sag	60... 65 mm (2.36... 2.56 in)
Fitted length	380 mm (14.96 in)

TECHNICAL DATA - CHASSIS TIGHTENING TORQUES

Screw, combination instrument		1 Nm (0.7 lbf ft)	–
Screw, combination instrument holder		1 Nm (0.7 lbf ft)	–
Screw, side stand switch	M4	2 Nm (1.5 lbf ft)	Loctite® 243™
Spoke nipple, front wheel (690 SUPER-MOTO)	M4,5	5 Nm (3.7 lbf ft)	–
Remaining screws, chassis	M5	4 Nm (3 lbf ft)	–
Screw, exhaust heat shield	M5	5 Nm (3.7 lbf ft)	Loctite® 243™
Screw, pressure regulator	M5	4 Nm (3 lbf ft)	–
Screw, footbrake pedal foothold	M5	6 Nm (4.4 lbf ft)	Loctite® 243™
Screw, plastic clamp of brake line on fork leg	M5	2 Nm (1.5 lbf ft)	–
Screw, fuel pump	M5	4 Nm (3 lbf ft)	–
Screw, fuel level indicator	M5	3 Nm (2.2 lbf ft)	–
Screw, side cover	M5	2 Nm (1.5 lbf ft)	–
Screw, seat lock	M5	3 Nm (2.2 lbf ft)	Loctite® 222
Screw, starter cable on starter	M5	3 Nm (2.2 lbf ft)	–
Spoke nipple, rear wheel (690 SUPER-MOTO)	M5	5 Nm (3.7 lbf ft)	–
Remaining nuts, chassis	M6	15 Nm (11.1 lbf ft)	–
Remaining screws on fuel tank	M6	6 Nm (4.4 lbf ft)	–
Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)	–
Screw, compensating tank of rear brake	M6	5 Nm (3.7 lbf ft)	–
Screw, battery holder	M6	3 Nm (2.2 lbf ft)	–
Screw, rear brake disc (690 SUPER-MOTO)	M6	14 Nm (10.3 lbf ft)	Loctite® 243™

TECHNICAL DATA - CHASSIS TIGHTENING TORQUES

Screw, front brake disc (690 SUPER-MOTO)	M6	14 Nm (10.3 lbf ft)	Loctite® 243™
Screw, footbrake cylinder	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, horn	M6	6 Nm (4.4 lbf ft)	Loctite® 243™
Screw, license plate holder	M6	8 Nm (5.9 lbf ft)	–
Screw, ball joint of push rod on footbrake cylinder	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, lower radiator bracket	M6	5 Nm (3.7 lbf ft)	–
Screw, fuel tap	M6	Tightening sequence: tighten in parallel 6 Nm (4.4 lbf ft)	–
Screw, magnetic holder on side stand	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, voltage regulator/rectifier	M6	8 Nm (5.9 lbf ft)	–
Screw, SLS valve	M6	6 Nm (4.4 lbf ft)	–
Screw, headlight mask	M6	5 Nm (3.7 lbf ft)	–
Screw, side stand bracket	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, control unit holder	M6	3 Nm (2.2 lbf ft)	–
Nut, rear sprocket screw	M8	35 Nm (25.8 lbf ft)	Loctite® 243™
Nut, manifold on cylinder head	M8	25 Nm (18.4 lbf ft)	Copper paste
Remaining nuts, chassis	M8	30 Nm (22.1 lbf ft)	–
Remaining screws, chassis	M8	25 Nm (18.4 lbf ft)	–
Screw, exhaust clamp on main silencer	M8	25 Nm (18.4 lbf ft)	–
Screw, exhaust clamp on manifold	M8	25 Nm (18.4 lbf ft)	Copper paste
Screw, rear brake disc (690 SUPER-MOTO R)	M8	30 Nm (22.1 lbf ft)	Loctite® 243™

TECHNICAL DATA - CHASSIS TIGHTENING TORQUES

Screw, front brake disc (690 SUPER-MOTO R)	M8	30 Nm (22.1 lbf ft)	Loctite® 243™
Screw, spring holder on side stand bracket	M8	25 Nm (18.4 lbf ft)	Loctite® 243™
Screw, rear footrest clamp	M8	25 Nm (18.4 lbf ft)	–
Screw, rear footrest bracket	M8	25 Nm (18.4 lbf ft)	Loctite® 243™
Screw, top triple clamp	M8	12 Nm (8.9 lbf ft)	–
Screw, bottom triple clamp	M8	15 Nm (11.1 lbf ft)	–
Screw, fork stub	M8	15 Nm (11.1 lbf ft)	–
Screw, steering stem	M8	20 Nm (14.8 lbf ft)	–
Screw, handrail	M8	6 Nm (4.4 lbf ft)	–
Screw, fuel tank bracket	M8	15 Nm (11.1 lbf ft)	–
Screw, manifold on main silencer	M8	25 Nm (18.4 lbf ft)	Copper paste
Screw, handlebar clamp	M8	20 Nm (14.8 lbf ft)	–
Screw, upper subframe	M8	35 Nm (25.8 lbf ft)	Loctite® 243™
Screw, side stand bracket	M8	25 Nm (18.4 lbf ft)	Loctite® 243™
Screw, linkage bracket, front engine bracket	M8	25 Nm (18.4 lbf ft)	Loctite® 243™
Screw, ignition lock	M8		Loctite® 243™
Screw, front brake caliper	M10x1.25	45 Nm (33.2 lbf ft)	Loctite® 243™
Screw, lower subframe	M10x1.25	45 Nm (33.2 lbf ft)	Loctite® 243™
Engine carrying screw	M10	45 Nm (33.2 lbf ft)	Loctite® 243™
Remaining nuts, chassis	M10	50 Nm (36.9 lbf ft)	–
Remaining screws, chassis	M10	45 Nm (33.2 lbf ft)	–
Screw, top shock absorber	M10	45 Nm (33.2 lbf ft)	Loctite® 243™

TECHNICAL DATA - CHASSIS TIGHTENING TORQUES

Screw, bottom shock absorber	M10	45 Nm (33.2 lbf ft)	Loctite® 243™
Screw, handlebar support	M10	20 Nm (14.8 lbf ft)	–
Screw, side stand	M10	35 Nm (25.8 lbf ft)	Loctite® 243™
Lambda probe	M12x1.25	24.5 Nm (18.07 lbf ft)	–
Nut, frame to linkage lever	M14x1.5	100 Nm (73.8 lbf ft)	–
Nut, linkage lever to rocker arm	M14x1.5	100 Nm (73.8 lbf ft)	–
Nut, linkage lever to swingarm	M14x1.5	100 Nm (73.8 lbf ft)	–
Nut, swingarm pivot	M16x1.5	100 Nm (73.8 lbf ft)	–
Screw, steering head	M20x1.5	12 Nm (8.9 lbf ft)	–
Swingarm bearing adjusting ring	M24x1.5	25 Nm (18.4 lbf ft)	–
Screw, front wheel spindle	M24x1.5	40 Nm (29.5 lbf ft)	–
Nut, rear wheel spindle	M25x1.5	90 Nm (66.4 lbf ft)	–