

Frame	Lattice frame made of chrome molybdenum steel tubing, powder-coated
Fork	WP Suspension Up Side Down 4860 MXMA PA
Shock absorber	WP Suspension PDS 5018 DCC PA
Suspension travel (990 Adventure)	
Front	210 mm (8.27 in)
Suspension travel (990 Adventure R)	
Front	265 mm (10.43 in)
Suspension travel (990 Adventure)	
Rear	210 mm (8.27 in)
Suspension travel (990 Adventure R)	
Rear	265 mm (10.43 in)
Brake system	
Front	Double disk brake with floating brake calipers and brake discs
Rear	Single disc brake with floating brake caliper and brake disc
Brake system (990 Adventure)	Two separate brake circuits with ABS (antilock brake system) - Brembo/Bosch
Brake system (990 Adventure R)	Two separate brake circuits without ABS (antilock brake system)
Brake discs - diameter	
Front	300 mm (11.81 in)
Rear	240 mm (9.45 in)
Brake discs - wear limit	
Front	4.5 mm (0.177 in)
Brake disc - wear limit	
Rear	4.5 mm (0.177 in)

TECHNICAL DATA - CHASSIS

Tire air pressure, Solo	
Front	2.4 bar (35 psi)
Rear	2.6 bar (38 psi)
Tire air pressure with passenger/full payload	
Front	2.4 bar (35 psi)
Rear	2.8 bar (41 psi)
Secondary drive ratio	16:42
Chain	5/8 x 5/16" X-ring
Steering head angle	63.4°
Wheelbase	1,570 mm (61.81 in)
Seat height, unloaded (990 Adventure)	880 mm (34.65 in)
Seat height, unloaded (990 Adventure R)	920 mm (36.22 in)
Ground clearance, unloaded (990 Adventure)	261 mm (10.28 in)
Ground clearance, unloaded (990 Adventure R)	316 mm (12.44 in)
Weight without fuel, approx. (990 Adventure)	209 kg (461 lb.)
Weight without fuel, approx. (990 Adventure R)	207 kg (456 lb.)
Maximum permissible front axle load	200 kg (441 lb.)
Maximum permissible rear axle load	250 kg (551 lb.)
Maximum permissible total weight	430 kg (948 lb.)

Battery	YTZ14S	Battery voltage: 12 V Nominal capacity: 11.2 Ah maintenance-free
Fuse	58011109110	10 A
Fuse	58011109115	15 A
Fuse	58011109125	25 A

Fuse	58011109130	30 A
Fuse	58011109140	40 A

Lighting equipment

Low beam	H7 / socket PX26d	12 V 55 W
High beam	H3 / socket PK22s	12 V 55 W
Parking light	W5W / socket W2.1x9.5d	12 V 5 W
Instrument lights and indicator lamps	LED	
Turn signal	RY10W / socket BAU15s	12 V 10 W
Tail light	WR5W / socket W2.1x9.5d	12 V 5 W
Brake light	PR21W / socket BAW15s	12 V 21 W
License plate lamp	W5W / socket W2.1x9.5d	12 V 5 W

Tires

Front tire	Rear tire	Condition
90/90 - 21 M/C 54V TL Pirelli SCORPION MT 90 A/T	150/70 R 18 M/C 70V TL Pirelli SCORPION MT 90 A/T	
90/90 - 21 M/C 54S M+S TT Continental TKC 80	150/70 B 18 M/C 70Q M+S TT Continental TKC 80	Alternative tires to max.: 160 km/h (99.4 mph)
Additional information is available in the Service section under: http://www.ktm.com		

Capacity - fuel

Total fuel tank capacity, approx.	20 l (5.3 US gal)	Super unleaded (ROZ 95 / RON 95 / PON 91) (☛ p. 201)
Fuel reserve, approx.	4 l (1.1 US gal)	

990 Adventure

Fork part number	14.18.7E.24
Fork	WP Suspension Up Side Down 4860 MXMA PA
Compression damping	
Comfort	20 clicks
Standard	15 clicks
Sport	10 clicks
Full payload	10 clicks
Rebound damping	
Comfort	23 clicks
Standard	18 clicks
Sport	13 clicks
Full payload	13 clicks
Spring preload - Preload Adjuster	
Comfort	5 turns
Standard	5 turns
Sport	8 turns
Full payload	7 turns
Spring length with preload spacer(s)	468 mm (18.43 in)
Spring rate	
Soft	4.6 N/mm (26.3 lb/in)
Medium (standard)	4.8 N/mm (27.4 lb/in)
Hard	5.0 N/mm (28.6 lb/in)
Fork length	880 mm (34.65 in)

Air chamber length	100 ⁺³⁰ ₋₂₀ mm (3.94 ^{+1.18} _{-0.79} in)	
FORK OIL	655 ml (22.15 fl. oz.)	Fork oil (SAE 5) (☛ p. 200)

990 Adventure R

Fork part number	14.18.7E.25	
Fork	WP Suspension Up Side Down 4860 MXMA PA	
Compression damping		
Comfort	20 clicks	
Standard	15 clicks	
Sport	10 clicks	
Full payload	10 clicks	
Rebound damping		
Comfort	23 clicks	
Standard	18 clicks	
Sport	13 clicks	
Full payload	13 clicks	
Spring preload - Preload Adjuster		
Comfort	5 turns	
Standard	5 turns	
Sport	8 turns	
Full payload	7 turns	
Spring length with preload spacer(s)	488 mm (19.21 in)	
Spring rate		
Soft	4.6 N/mm (26.3 lb/in)	

TECHNICAL DATA - FORK

Medium (standard)	4.8 N/mm (27.4 lb/in)	
Hard	5.0 N/mm (28.6 lb/in)	
Fork length	935 mm (36.81 in)	
Air chamber length	100 ⁺³⁰ ₋₂₀ mm (3.94 ^{+1.18} _{-0.79} in)	
FORK OIL	655 ml (22.15 fl. oz.)	Fork oil (SAE 5) (☛ p. 200)

990 Adventure

Shock absorber part number	12.18.7E.08
Shock absorber	WP Suspension PDS 5018 DCC PA
Compression damping, low-speed	
Comfort	25 clicks
Standard	20 clicks
Sport	15 clicks
Full payload	15 clicks
Compression damping, high-speed	
Comfort	2 turns
Standard	1.5 turns
Sport	1 turn
Full payload	1 turn
Rebound damping	
Comfort	20 clicks
Standard	15 clicks
Sport	10 clicks
Full payload	10 clicks
Spring preload - Preload Adjuster	
Comfort	4 turns
Standard	4 turns
Sport	8 turns
Full payload	16 turns
Spring rate	

Soft	140 N/mm (799 lb/in)
Medium (standard)	150 N/mm (857 lb/in)
Spring length	225 mm (8.86 in)
Gas pressure	10 bar (145 psi)
Static sag	25 mm (0.98 in)
Fitted length	372 mm (14.65 in)
Shock absorber oil (☛ p. 200)	SAE 2.5

990 Adventure R

Shock absorber part number	12.18.7E.09
Shock absorber	WP Suspension PDS 5018 DCC PA
Compression damping, low-speed	
Comfort	25 clicks
Standard	20 clicks
Sport	15 clicks
Full payload	15 clicks
Compression damping, high-speed	
Comfort	2 turns
Standard	1.5 turns
Sport	1 turn
Full payload	1 turn
Rebound damping	
Comfort	20 clicks
Standard	15 clicks

Sport	10 clicks
Full payload	10 clicks
Spring preload - Preload Adjuster	
Comfort	4 turns
Standard	4 turns
Sport	8 turns
Full payload	10 turns
Spring rate	
Soft	130 N/mm (742 lb/in)
Medium (standard)	140 N/mm (799 lb/in)
Hard	150 N/mm (857 lb/in)
Spring length	265 mm (10.43 in)
Gas pressure	10 bar (145 psi)
Static sag	25 mm (0.98 in)
Fitted length	392 mm (15.43 in)
Shock absorber oil (☛ p. 200)	SAE 2.5

TECHNICAL DATA - CHASSIS TIGHTENING TORQUES

Screw, side stand switch	M4	2 Nm (1.5 lbf ft)	–
Screw, cable guide, wheel speed sensor, rear	M5	3 Nm (2.2 lbf ft)	–
Screw, filler cap	M5	5 Nm (3.7 lbf ft)	–
Screw, footbrake pedal stub	M5	6 Nm (4.4 lbf ft)	Loctite® 243™
Screw, fuel level indicator	M5	3 Nm (2.2 lbf ft)	–
Screw, wheel speed sensor bracket, front	M5	4 Nm (3 lbf ft)	Loctite® 243™
Spoke nipple	M5	5 Nm (3.7 lbf ft)	–
Nut, ABS unit fixation	M6	8 Nm (5.9 lbf ft)	–
Nut, positive terminal extension	M6	4 Nm (3 lbf ft)	–
Nut, tail light	M6	8 Nm (5.9 lbf ft)	–
Remaining chassis nuts	M6	15 Nm (11.1 lbf ft)	–
Remaining chassis screws	M6	10 Nm (7.4 lbf ft)	–
Screw connection, wheel speed sensor, front	M6	6 Nm (4.4 lbf ft)	–
Screw, brake line holder on bottom triple clamp	M6	8 Nm (5.9 lbf ft)	Loctite® 243™
Screw, cable/line guide at top triple clamp	M6	8 Nm (5.9 lbf ft)	Loctite® 243™
Screw, chain sliding guard	M6	6 Nm (4.4 lbf ft)	Loctite® 243™
Screw, exhaust pipe bracket	M6	12 Nm (8.9 lbf ft)	Loctite® 243™
Screw, footbrake cylinder	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, front brake disc	M6	14 Nm (10.3 lbf ft)	Loctite® 243™
Screw, fuel pump	M6	6 Nm (4.4 lbf ft)	–
Screw, fuel tap	M6	6 Nm (4.4 lbf ft)	–

TECHNICAL DATA - CHASSIS TIGHTENING TORQUES

Screw, heat guard on manifold	M6	8 Nm (5.9 lbf ft)	–
Screw, magnetic holder on side stand	M6	6 Nm (4.4 lbf ft)	Loctite® 243™
Screw, rear brake disc	M6	14 Nm (10.3 lbf ft)	Loctite® 243™
Screw, wheel speed sensor, rear	M6	8 Nm (5.9 lbf ft)	Loctite® 243™
Nut, manifold on cylinder head	M8	Tightening sequence: Tighten the nuts evenly. Do not bend the metal.	–
Remaining chassis nuts	M8	30 Nm (22.1 lbf ft)	–
Remaining chassis screws	M8	25 Nm (18.4 lbf ft)	–
Screw, bottom triple clamp	M8	15 Nm (11.1 lbf ft)	–
Screw, exhaust clamp	M8	8 Nm (5.9 lbf ft)	–
Screw, fork stub	M8	15 Nm (11.1 lbf ft)	–
Screw, front brake caliper	M8	25 Nm (18.4 lbf ft)	Loctite® 243™
Screw, fuel tank	M8	15 Nm (11.1 lbf ft)	–
Screw, handlebar clamp	M8	20 Nm (14.8 lbf ft)	–
Screw, ignition lock (ratchet screw)	M8		Loctite® 243™
Screw, rear footrest bracket	M8	25 Nm (18.4 lbf ft)	Loctite® 243™
Screw, spring holder on side stand bracket	M8	25 Nm (18.4 lbf ft)	Loctite® 243™
Screw, steering stem	M8	20 Nm (14.8 lbf ft)	–
Screw, top triple clamp	M8	20 Nm (14.8 lbf ft)	–
Screw, underride guard	M8	25 Nm (18.4 lbf ft)	Loctite® 243™
Engine carrying screw	M10	45 Nm (33.2 lbf ft)	–
Remaining chassis nuts	M10	50 Nm (36.9 lbf ft)	–
Remaining chassis screws	M10	45 Nm (33.2 lbf ft)	–

TECHNICAL DATA - CHASSIS TIGHTENING TORQUES

Screw, handlebar support	M10	20 Nm (14.8 lbf ft)	–
Screw, side stand	M10	35 Nm (25.8 lbf ft)	Loctite® 243™
Screw, side stand bracket	M10	45 Nm (33.2 lbf ft)	Loctite® 243™
Screw, side stand holding plate	M10	40 Nm (29.5 lbf ft)	Loctite® 243™
Nut, rear sprocket screw	M10x1.25	50 Nm (36.9 lbf ft)	Loctite® 243™
Screw, subframe	M10x1.25	45 Nm (33.2 lbf ft)	Loctite® 243™
Oil drain plug with magnet	M12x1.5	25 Nm (18.4 lbf ft)	–
Screw, bottom shock absorber	M14x1.5	80 Nm (59 lbf ft)	Thread greased
Screw, top shock absorber	M14x1.5	80 Nm (59 lbf ft)	Thread greased
Nut, socket	M18x1	4 Nm (3 lbf ft)	–
Lambda sensor	M18x1.5	45 Nm (33.2 lbf ft)	–
Nut, swingarm pivot	M19x1.5	130 Nm (95.9 lbf ft)	Thread greased
Screw, top steering head	M20x1.5	12 Nm (8.9 lbf ft)	–
Nut, rear wheel spindle	M25x1.5	90 Nm (66.4 lbf ft)	Thread greased
Screw, front wheel spindle	M25x1.5	45 Nm (33.2 lbf ft)	–