

## Tightening torques

### BMW S 1000 RR K46 (2009 - 2018)



Component / Assembly	Torque	Wrench size
<b>Wheels and Brakes</b>		
Front axle	60 Nm	internal hex 24 mm
Clamping screws front axle	16 Nm	internal hex 6 mm or Torx 45
Brake caliper screws	30 Nm	outer hex 13 mm
Banjo bolt Brake M10x1	20 Nm	outer hex 12 mm or Torx 45
Rear sprocket screws BMW OEM	75 Nm	outer hex 18 mm
Rear sprocket screws OZ Motorbike	50 Nm	outer hex 14 mm
Rear axle nut	80 Nm	outer hex 34 mm
Screws front brake disc	20 Nm + Loctite 243 blue	internal hex 6 mm
Screws rear brake disc	10 Nm + Loctite 243 blue	internal hex 4 mm
<b>Suspension</b>		
Clamping screws lower triple clamp	10 Nm (alternately tighten until both bolts reach 10 Nm)	internal hex 6 mm or Torx 45
Clamping screws upper triple clamp	15 Nm	internal hex 6 mm or Torx 45
Securing nut upper triple clamp	60 Nm + Loctite 243 blue	outer hex 36 mm
Adjusting nuts steering bearings	intuitive	C-wrench
Swing arm axle	15 Nm	internal hex 17 mm
Lock nut swing arm axle	50 Nm	outer hex 27 mm
Fixing screws rear shock	45 Nm	Torx 50 and outer hex 16 mm
Bolt kit link assembly	45 Nm	Torx 55 and outer hex 18 mm
Securing nut pivots	80 Nm	outer hex 46 mm
<b>Engine and frame</b>		
Fixing screws engine	50 Nm	Torx 50
Threaded bushes engine axis	15 Nm	Torx 50
Nut engine axis	50 Nm	outer hex 16 mm
Sprocket nut	120 Nm + lock washer	outer hex 32 mm
Expansion screws Engine cover	Aluminium: 5 Nm + 90° Stainless steel: 10 Nm	Torx 30
Oil drain plug alpha Racing	25 Nm + safety wire	outer hex 14 mm
Fixing screws manifold flange M7	maximal 10 Nm + Anti-Seize Paste	wrench socket 10 mm
Fixing screws subframe	40 Nm + Loctite 243 blue	Torx 50 and outer hex 18 mm
<b>Handlebar and Rearset</b>		
Handlebars OEM M8	10 Nm	Torx 45
Handlebars alpha Racing M6	10 Nm	internal hex 5 mm
Clamping screws handlebar tube M5	8 Nm	internal hex 4 mm
Mount rearset	20 Nm + Loctite 243 blue	internal hex 6 mm or Torx 45
Mount footrest	20 Nm + Loctite 243 blue	internal hex 6 mm
Screws M8 general	20 Nm	
Screws M6 general	10 Nm	
Screws M5 general	8 Nm	

All torque values listed are guidelines for racetrack use and do not necessarily comply with the specifications of BMW Motorrad.