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Maintenance BMW Integral ABS



R 1150 RT

BMW Motorrad After Sales

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BMW Motorrad Maintenance schedule R 1100 S EVO / R 1150 R / R 1150 RT



		E 0		5 E	Ф
Customer	Registration No.	BMW Inspection at 1,000 km (600 miles)	BMW Service 10,000 km (6,000 miles)	BMW Inspection every 20,000 km (12,000 miles)	BMW Annual Service
Order No.	Mechanic's signature	BMW Insperat 1,000 km (600 miles)	BMW 10,000 (6,000	BMW every (12,00	BMW
Read the fault code memory with the BMW MoDiTe	eC				
[Integral ABS] perform bleed test with BMW MoDi	TeC				
Change oil while at regular operating temperature a lf the motorcycle is ridden only for short distance latest every 3,000 km (1,800 miles)*)	and replace the oil filter element ses or outside temperatures are below 0 °C: at the				
Change oil in gearbox while at operating temperature every 2 years*) at the latest	ıre				every 2 years
Change oil in rear wheel drive while at operating temperature if necessary, clean inductive sensor on rear wheel every 40,000 km (24,000 miles) or at the latest every 2 years*)				40,000	every 2 years
Replace fuel filter *) Normally every 40,000 km (24,000 miles), if fuel is	s of poor quality every 20,000 km (12,000 miles)			40,000	
Check the battery fluid level, if necessary top up with Clean and grease battery poles if necessary	ith distilled water				
Replace intake air filter element In very dirty and dusty operating conditions, replace every 10,000 km (6,000 miles) or even more frequently if necessary *)					
Replace Poly-V belt *\) Replace the Poly-V belt every 60,000 km (36,000	miles); do not adjust it			60,000	
Check brake fluid level at front and rear					
Check operation of brake system and freedom from leaks; repair/replace items if necessary*)					
Examine brake pads and discs for wear, replace as necessary*)					
[Without ABS] change brake fluid every twelve months					
[Integral ABS] change bake fluid in wheel circuit e	very 12 months				
[Integral ABS] change brake fluid in control circuit	every 2 years*)				every 2 years
[Integral ABS] perform bleed test with BMW MoDi	TeC				
Check clutch fluid level					
Change the clutch fluid*) every 2 years at the latest					every 2 years
Check tightness of rear wheel studs					
Check rear wheel bearing play by tilting wheel					
Check swinging arm bearings (freedom from play), adjust if necessary *)					
Grease the side stand pivot					
Check function of side stand contact switch					
Check condition of spark plugs					
Replace spark plugs					
Tighten cylinder head nuts					
Check/adjust valve clearances					
Check that the throttle cable moves freely and is frecheck throttle-cable play check synchronisation, repair leaks if necessary *)	ee of kinks and chaffing, replace if necessary *)				
Final inspection with road safety and functional check: Condition of tyres and wheels, tyre pressures Lights and signalling equipment, telltale and warning lights, instruments, clutch, gearshift mechanism, hand brake and foot brake, steering, if necessary, test drive					
*) Charged as an additional item					

BMW Motorrad Pre-delivery check R 1100 S EVO / R 1150 R / R 1150 RT



Customer	Registration No.	BMW Pre-delivery check	
Order No.	Mechanic's signature		
Check the shipping crate for damag	9		
Motorcycle:			
 unpack install remaining items inspect for damage check that delivery is complete: 	Toolkit On-board literature Ignition keys Scope of optional extras		
Fill and charge the battery (mark with	n charging date)		
Check engine oil level when cold an	d correct if necessary.		
Check headlight setting and adjust if necessary.			
Check tightness of rear wheel studs (note correct tightening torque)			
Check tyre pressures			
Fill up with fuel			
[Integral ABS] perform bleed test w			
Final inspection as functional check: - Clutch, gear shift - Handbrake and foot brake - Lights and signalling equipment, telltale and warning lights, instruments, - Check operation of optional extras - If necessary, test drive			
Confirm pre-delivery check in "Servi	ce and Technical Booklet".		
Final cleaning			
Motorcycle handed over on:			

BMW Motorrad Service data R 1150 RT



(without filter) 3.50 (6.15) Engine for four-API clas with with sold changes Transmission Initial filling Oil changes approx. 1.0 (1.76) approx. 0.8 (1.41) of oil to bottom edge of filler neck approx. 0.25 (0.44)	litres (Imp. pints) SI 11 048 90 oil grade: brand-name HD oil stroke spark-ignition engines, sees SE, SF, SG; combination h CC or CD specification SI 11 048 90 oil grade: brand-name HD oil stroke spark-ignition engines, sees SE, SF, SG; combination h CC or CD specification SI 11 048 90 SI 12 048 90 SA 12 048 90 SA 13 048 90 SA 14 048 90 SA 15 048 90 SA 15 048 90 SA 16 048 90 SA 17 048 90 SA 17 048 90 SA 18 048
Oil changes approx. 0.8 (1.41) of oil to bottom edge of filler neck approx. 0.25 (0.44) of oil to bottom edge of filler neck approx. 0.25 (0.44) of oil to bottom edge of filler neck Valve clearances measured cold (max. 35 °C/95 °F) Inlet: 0.15 (0.006) Exhaust: 0.30 (0.012)	litres (Imp. pints) -name hypoid gear oil, SAE class GL 5 SAE 90 litres (Imp. pints) -name hypoid gear oil, SAE class GL 5 SAE 90
Valve clearances measured cold (max. 35 °C/95 °F) France Inlet: 0.15 (0.006) Exhaust: 0.30 (0.012)	-name hypoid gear oil, SAE class GL 5 SAE 90
measured cold (max. 35 °C/95 °F) Inlet: 0.15 (0.006) Exhaust: 0.30 (0.012)	mm (in)
Ignition timing	mm (in)
static setting adjust at TDC	
Spark plugsElectrode gap0.8 (0.0315)Wear limit1.0 (0.039)	mm (in) mm (in)
Idle speed 1,100 ±50	rpm
Throttle cable setting for cold-start (increased idle) speed for throttle (twistgrip) cable for divider cable zero play approx. 0.5 (0.02) zero play	mm (in) free travel
Brakes Colour of identification mark on brake calipers/brake pads, front Minimum front pad thickness Minimum rear pad thickness Minimum front disc thickness Minimum rear disc thickness	DOT 4 brake fluid mm (in) mm (in) mm (in) mm (in)
Tyre pressures depending on load front: 2.2 – 2.5 (31.9 – 36.26) rear: 2.5 – 2.9 (36.26 – 42.06)	bar (psi) bar (psi)
Tightening torques: Oil filter 11 Engine oil drain plug 32	Nm Nm
Gearbox oil filler plug Gearbox oil drain plug 30 30	Nm Nm
Rear wheel drive oil filler/drain plug 23	Nm
Fuel tank to rear frame 22 Fuel pump assembly to tank 5	Nm Nm
Poly-V belt preload 8 Alternator to cover mount 20	Nm Nm
Brake caliper fasteners, front 30 Brake caliper fasteners, rear 40	Nm Nm
Rear wheel studs 105	Nm
Tightening cylinder heads Nut unscrew/20 180 unscrew/40	Nm ° tightening angle Nm
Locknut, valve adjusting screw 8	Nm
Cylinder head cover 8	Nm
Spark plugs NGK BKR 7 EKC 25	Nm

00 Tightening torque Table of operating fluids



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Tightening torque

Model		R 1150 RT
Connection		
11 Engine		
Cylinder head		
Tightening sequence:		
 Tighten cylinder head nuts (oiled) in diagonally opposite sequence 		
1.1 Tighten all nuts to closing torque	Nm	20
1.2 Tighten all nuts to correct wrench angle	0	90
1.3 Tighten all nuts to correct wrench angle	0	90
2 M 10 screw	Nm	40
3 M 6 screw	Nm	9
After 1,000 km (600 miles), tighten cylinder head nuts in diagonally opposite sequence:		
1 Slacken one nut		
2 Tighten nut to initial torque	Nm	20
3 Tighten nut to wrench angle	0	180
4 Slacken and retighten M 10 screw	Nm	40
Timing gear carrier to cylinder head	Nm	9
Bearing cap on rocker shaft	Nm	18
Locknut, valve adjusting screw	Nm	8
Cylinder head cover to cylinder head	Nm	8
Camshaft end cover to cylinder head	Nm	9
Air intake connection to cylinder head	Nm	9
Camshaft		
Chain sprocket to camshaft	Nm	65
Camshaft bearing cap	Nm	15
Alternator mount cover		
M 6 screw	Nm	9
M 8 screw	Nm	20
Auxiliary shaft		
Chain sprocket to crankshaft	Nm	10
Chainwheel to auxiliary shaft	Nm	70
Chain tensioner housing to engine block	Nm	9



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Model		R 1150 RT
Connection		
11 Engine		
Oil filter		
Oil filter	Nm	11
Oil drain plug	Nm	32
Oil pump		
Mesh filter basket to engine block	Nm	10
Oil pump cover	Nm	9
Pressure relief valve	Nm	42
Oil pressure switch	Nm	30
Oil cooler		
Cooling oil line to engine block	Nm	10
Cooling oil line banjo screw with oil vent valve	Nm	25
Oil cooler to bracket	Nm	9
Oil cooler return line to engine block	Nm	35
Oil cooler connection to crankcase	Nm	9
Cylinders		
Tightening sequence:		
1 M 8 screw	Nm	20
2 M 6 screw	Nm	9
3 Chain guide rail pivot screw	Nm	18
Timing chain		
Chain tensioner	Nm	32
Connecting rod		
Big end cap		
Closing torque	Nm	20
Wrench angle	0	80
Crankcase		
Tightening sequence:		
M 10 screw (oiled) to initial torque	Nm	25
Wrench angle	0	90
M 8 screw	Nm	22 (oiled)

Nm

9



M 6 screw