Bmw R1150 R Abs Maintenance Manual

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Maintenance BMW Integral ABS



R 1150 R

BMW Motorrad After Sales

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Produced in Germany 01/01

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

| | | ы | | 55 | Ð |
|--|--|--|---|---|-----------------------|
| 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 at 1,00 (600 n | BMW 10,000 (6,000 | BMW every (12,00 | BMW Annuá |
| Read the fault code memory with the ${\bf BMW}$ MoDiTe | C | | | | |
| [Integral ABS] perform bleed test with BMW MoDi | ГеС | | | | |
| Change oil while at regular operating temperature a If the motorcycle is ridden only for short distance latest every 3,000 km (1,800 miles)*) | nd replace the oil filter element es or outside temperatures are below 0 °C: at the | | | | |
| Change oil in gearbox while at operating temperatu every 2 years*) at the latest | re | | | | every 2 years |
| Change oil in rear wheel drive while at operating ter if necessary, clean inductive sensor on rear wheel every 40,000 km (24,000 miles) or at the latest ev | | | | 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 | th distilled water | | | | |
| Replace intake air filter element In very dirty and dusty operating conditions, repl frequently if necessary *) | ace every 10,000 km (6,000 miles) or even more | | | | |
| 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 | n leaks; repair/replace items if necessary*) | | | | |
| Examine brake pads and discs for wear, replace as | necessary*) | | | | |
| [Without ABS] change brake fluid every twelve more | nths | | | | |
| [Integral ABS] change bake fluid in wheel circuit ev | 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), a | 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 fre Check throttle-cable play check synchronisation, repair leaks if necessary *) | \star^{*} of kinks and chaffing, replace if necessary \star^{*} | | | | |
| Final inspection with road safety and functional che - Condition of tyres and wheels, tyre pressures - Lights and signalling equipment, telltale and wa - clutch, gearshift mechanism, hand brake and for - if necessary, test drive | arning lights, instruments, | | | | |
| *) 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 damage | | |
| lgn | olkit -board literature ition keys ope of optional extras | |
| Fill and charge the battery (mark with cha | arging date) | |
| Check engine oil level when cold and con | rrect if necessary. | |
| Check headlight setting and adjust if nec | essary. | |
| Check tightness of rear wheel studs (note correct tightening torque) | | |
| Check tyre pressures | | |
| Fill up with fuel | | |
| [Integral ABS] perform bleed test with B | MW MoDiTeC | |
| Final inspection as functional check: Clutch, gear shift Handbrake and foot brake Lights and signalling equipment, tellta Check operation of optional extras If necessary, test drive | le and warning lights, instruments, | |
| Confirm pre-delivery check in "Service ar | nd Technical Booklet". | |
| Final cleaning | | |
| Motorcycle handed over on: | | |

BMW Motorrad Service data R 1150 R



| | Item | Desired value | Unit of measure- ment/specification |
|---|---------------------------------------|---|--|
| Oil capacities Engine | (with filter) (without filter) | 3.75 (6.6) 3.50 (6.15) | litres (Imp. pints) litres (Imp. pints) [SI 11 048 90] Engine oil grade: brand-name HD oil for four-stroke spark-ignition engines, API classes SE, SF, SG; combination with CC or CD specification |
| Transmission | Initial filling Oil changes | approx. 1.0 (1.76) approx. 0.8 (1.41) of oil to bottom edge of filler neck | litres (Imp. pints) litres (Imp. pints) Brand-name hypoid gear oil, SAE class GL 5 SAE 90 |
| Rear wheel driv | ve Initial filling/oil change | approx. 0.25 (0.44) of oil to bottom edge of filler neck | litres (Imp. pints) Brand-name hypoid gear oil, SAE class GL 5 SAE 90 |
| Valve clearand measured cold | ces (max. 35 °C/95 °F) | Inlet: 0.15 (0.006) Exhaust: 0.30 (0.012) | mm (in) mm (in) |
| Ignition timing static setting | I | adjust at TDC | |
| Spark plugs Electrode gap Wear limit | | 0.8 (0.0315) 1.0 (0.039) | mm (in) mm (in) |
| Idle speed | | 1,100 ±50 | rpm |
| Throttle cable for cold-start (i for throttle (twis for divider cabl | ncreased idle) speed stgrip) cable | zero play approx. 0.5 (0.02) zero play | mm (in) free travel |
| Brakes Colour of identi Minimum front Minimum rear p Minimum front Minimum rear of | oad thickness disc thickness | green 1.0 (0.039) 1.0 (0.039) (wear mark) 4.5 (0.177) 4.5 (0.177) | DOT 4 brake fluid mm (in) mm (in) mm (in) mm (in) |
| Tyre pressures depending on l | | front: 2.2 – 2.5 (31.9 – 36.26) rear: 2.5 – 2.9 (36.26 – 42.06) | bar (psi) bar (psi) |
| Tightening tor Oil filter Engine oil drair | | 11 32 | Nm Nm |
| Gearbox oil fille Gearbox oil dra | | 30 30 | Nm Nm |
| Rear wheel driv | ve oil filler/drain plug | 23 | Nm |
| Fuel tank to rea Fuel pump ass | | 22 5 | Nm Nm |
| Poly-V belt pre Alternator to co | | 8 20 | Nm Nm |
| Brake caliper fa Brake caliper fa | | 30 40 | Nm Nm |
| Rear wheel stu | ds | 105 | Nm |
| Tightening cylin Nut M 10 screw | | unscrew/20 180 unscrew/40 | Nm ° tightening angle Nm |
| | adjusting screw | 8 | Nm |
| Cylinder head | cover | 8 | Nm |
| Spark plugs N | GK BKR 7 EKC | 25 | Nm |

00 Tightening torque Table of operating fluids

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Tightening torque

| Model | | R 1150 R |
|---|----|----------|
| Connection | | |
| 11 Engine | | |
| Cylinder head | | |
| Tightening sequence: | | |
| Tighten cylinder head nuts (oiled) in go- nally opposite sequence | | |
| 1.1 Tighten all nuts to closing torque | Nm | 20 |
| 1.2 Tighten all nuts to correct angle | 0 | 90 |
| 1.3 Tighten all nuts to correct 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 se- quence: | | |
| 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 |
| | | |

Fuel

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| Model | | R 1150 R |
|--|----|------------|
| 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 lines to oil cooler | Nm | 25 |
| Oil cooler to bracket | Nm | 8 |
| 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) |
| M 6 screw | Nm | 9 |

Fire