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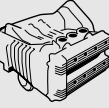
00 Maintenance and general instructions

00.1



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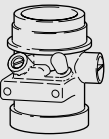
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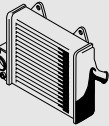
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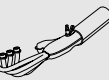
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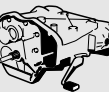
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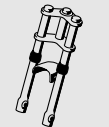
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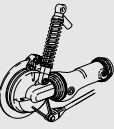
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Group / Chapter

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65.1



BMW AG Motorcycle Division

Maintenance schedule

K 1200 LT



		BMW Inspection at 1,000 km (600 miles)	BMW Service every 10,000 km (6,000 miles)	BMW Inspection every 20,000 km (12,000 miles)	BMW Annual Service
Customer _____	Licence plate No. _____				
Order No. _____	Mechanic's signature _____				
Read out the fault memory with the BMW MoDiTeC unit		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Check throttle cable play, adjust if necessary		<input type="checkbox"/>		<input type="checkbox"/>	
Change engine oil while at operating temperature If the motorcycle is ridden only for short distances or at outside temperatures below 0°C (32 °F), this work must be done every 3 months or at least every 3,000 km (1,800 miles) *)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change oil in gearbox while at operating temperature at least every 2 years *)				<input type="checkbox"/>	<input type="checkbox"/> every 2 years
Change oil in rear wheel drive while at operating temperature at least every 2 years *)		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/> every 2 years
Examine brake pads and discs for wear, replace if necessary *)			<input type="checkbox"/>	<input type="checkbox"/>	
Check the front/rear brake fluid level		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Check operation of brake system and freedom from leaks; repair/replace items if necessary *)				<input type="checkbox"/>	
Replace the brake fluid at least once a year					<input type="checkbox"/>
Check clutch operating fluid level		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Change clutch fluid every 40,000 km (24,000 miles) or at least every 2 years *)				<input type="checkbox"/> 40,000	<input type="checkbox"/> every 2 years
Replace fuel filter *) generally every 40,000 km (24,000 miles), if the fuel is of poor quality, every 20,000 km (12,000 miles)				<input type="checkbox"/> 40,000	
Check and top up, where necessary, coolant level and concentration		<input type="checkbox"/>		<input type="checkbox"/>	
Replace the coolant at least every 2 years*)					<input type="checkbox"/> every 2 years
Check battery acid level, if necessary add distilled water Clean/grease battery terminals if necessary				<input type="checkbox"/>	<input type="checkbox"/>
Replace intake air cleaner element If severe dirt and dust are encountered, replace the intake air cleaner every 10,000 km (6,000 miles) or even more frequently *)				<input type="checkbox"/>	
Check function of side stand contact switch		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Grease side stand bearing, check that the centre stand moves freely, and grease it if necessary *)			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Check the steering damper			<input type="checkbox"/>	<input type="checkbox"/>	
Check tightness of rear wheel studs		<input type="checkbox"/>			
Check rear wheel bearing play by rocking wheel				<input type="checkbox"/>	
Check swinging arm bearings (free of play), adjust if necessary *)		<input type="checkbox"/>		<input type="checkbox"/>	
Clean the inductive sensor on the rear wheel every 40,000 km (24,000 miles) or at least every 2 years *)				<input type="checkbox"/> 40,000	<input type="checkbox"/> every 2 years
Check valve clearances, adjust if necessary				<input type="checkbox"/>	
Replace the lining of the chain tensioning rail and chain guide rail every 60,000 km (36,000 miles)*)				<input type="checkbox"/> 60,000	
Replace spark plugs				<input type="checkbox"/>	
Final inspection with road safety and functional check: – Condition of tires and wheels, tyre pressure – Clutch, gearshift mechanism, hand and foot brake, ABS, steering system – Lighting and signalling equipment, telltale lights, instruments, horn – Reversing aid, radio with remote contro, optional equipment fitted – Trial run if necessary		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*) Charged as an additional item					

BMW AG Motorcycle Division

Pre-delivery check

K 1200 LT



<p>Customer _____</p> <p>Order No. _____</p>	<p>Licence plate No. _____</p> <p>Mechanic's signature _____</p>	<p>BMW Pre-delivery check</p>
<p>Check the shipping crate for damage</p>		
<p>Unpacking the motorcycle</p> <ul style="list-style-type: none"> - unpack - inspect for damage - check that delivery is complete <p>Motorcycle keys Top case lock cylinder Toolkit and helmet lock Documentation Top case (packed separately) Optional extras</p>		<input type="checkbox"/>
<p>Installing remaining items on motorcycle</p> <ul style="list-style-type: none"> - Fit front wheel and mudguard - Fit the mirror - Fit the right-hand side footrest and passenger footrest plate - Fit engine spoiler, reversing aid actuation, bumpers - Install the top case 		<input type="checkbox"/>
<p>Fill and charge the battery (mark with charging date)</p>		<input type="checkbox"/>
<p>Check the front/rear brake fluid level</p>		<input type="checkbox"/>
<p>Check clutch fluid level</p>		<input type="checkbox"/>
<p>Check tyre pressures</p>		<input type="checkbox"/>
<p>Check rear wheel studs for tightness (note correct tightening torque)</p>		<input type="checkbox"/>
<p>Fit antenna, windshield</p>		<input type="checkbox"/>
<p>Checking and adjusting the motorcycle</p> <ul style="list-style-type: none"> - Check function of side stand contact switch - Seat - Top case - Headlight, spring strut 		<input type="checkbox"/>
<p>Add fuel</p>		<input type="checkbox"/>
<p>Final inspection and function check</p> <ul style="list-style-type: none"> - Check engine oil when engine is cold - Clutch, gearshift mechanism, reversing aid - Lighting and signalling equipment, telltale lights, instruments - Check radio for operation - Hand brake and foot brake, ABS - Check optional equipment for operation CD player, on-board computer, cruise control - Trial run if necessary 		<input type="checkbox"/>
<p>Confirm pre-delivery check in Service and Technical Booklet</p>		<input type="checkbox"/>
<p>Final cleaning</p>		<input type="checkbox"/>
<p>Motorcycle handed over on:</p>		

00 Maintenance and general instructions

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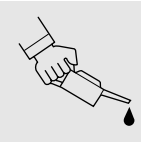
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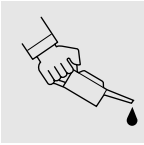


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Tightening torques

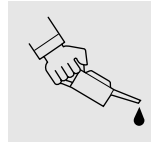
Model	K 1200 LT	
Connection	Nm	
11 Engine		
Cylinder head		
Cylinder head bolts		
Joint torque	20	Oiled before installation
Wrench angle	90°	
Cylinder head cover	9	
Heat shield for cylinder-head cover	5	
Coolant stub pipe	9	
Intake stub pipe	9	
Split conrods		
Split-conrod bearing	20	
Wrench angle	80°	
Crankshaft		
Rotor flange	50	
Main bearing	50	
Cover, crankcase	9	
Freewheel		
Cover plate	10	
Engine block		
Collared bearing, output shaft	40	
Needle bearing, output shaft	20	
Lower section of crankcase	10	
Oil sump	10	
Oil drain plug	30	
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Model	K 1200 LT	
Connection	Nm	
11 Engine		
Camshafts		
Bearing cap		10
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Intermediate flange		
Thrust plate, driver to intermediate flange		9 (clean thread + Loctite 243)
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Model	K 1200 LT
Connection	Nm
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Cover, shield housing	5
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Model	K 1200 LT
Connection	Nm
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Model	K 1200 LT
Connection	Nm
21 Clutch	
Clutch-lever fitting to handlebar	5
Grub screw in filler adapter	10
Filler adapter to breather line	18 (clean thread + Loctite 243)
Clutch housing to output shaft initial torque	140
release	
second torque	50
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Cover to clutch housing	18
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Actuator lever, reverser	6 (clean thread + Loctite 243)
Cover, reverser to gearbox housing	10
Cover plate, reverser	10 (clean thread + Loctite 243)
Threaded pin M 6 in cover, reverser	5 (clean thread + Loctite 243)



Model	K 1200 LT
Connection	Nm
31 Front forks	
Fork bridge to frame (nut micro-encapsulated)	130 (clean thread + new nut or Loctite 2701)
Fork stanchion to fork bridge	45
Steering damper to slider tube bridge (screw micro-encapsulated)	21 (clean thread + new screw or Loctite 243)
Steering damper to leading link	21 (clean thread + new screw or Loctite 243)
Leading link to fork slider bridge (nut micro-encapsulated)	130 (clean thread + Loctite 2701)
Ball joint to fork slider bridge	230
Leading link to fork slider bridge	130 (clean thread + Loctite 2701)
Leading link to frame	107 (clean thread + Loctite 243)
Clamp, leading link M 8	21
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Slider tube bridge to slider tube	21 (clean thread + new screw or Loctite 243)
Brake distributor to holder, sliding tube right	9
Oil drain plug in slider tube	12
Vent screw, stanchion	3
32 Steering	
Brake-lever fitting to handlebar	5
Clutch-lever fitting to handlebar	5
Handlebar to fork bridge	21
Bearing screw, brake and clutch levers	5 (clean thread + Loctite 2701)



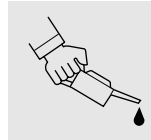
Model	K 1200 LT
Connection	Nm
33 Rear wheel drive	
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Model	K 1200 LT
Connection	Nm
34 Brakes	
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ABS sensor	4
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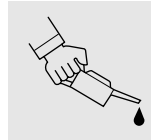


Model	K 1200 LT
Connection	Nm
36 Wheels and tyres	
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Quick-release axle, front wheel Initial tightening Final tightening	19 30
Pinch bolt, quick-release axle	21
46 Frame	
Frame	
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Model	K 1200 LT
Connection	Nm
46 Frame	
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Model	K 1200 LT
Connection	Nm
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Socket to engine spoiler	4
Socket to top case	4



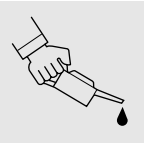
Model	K 1200 LT
Connection	Nm
62 Instruments	
Instrument cluster to fairing bracket	6
63 Lights	
Headlight to upper section of fairing	2
Rear light cluster to case trimmer	5
65 Radio and optional extras	
Clamping nut, stub aerial	3
Aerial holder to frame	9
Retaining plate for cruise control system to fairing bracket	8
Holder for temperature sensor to upper section of fairing	2



Table of operating fluids

Item	Use	Order number	Quantity
Lubricant			
Staburags NBU 30 PTM	High-performance lubricating paste	07 55 9 056 992	75 g tube
Optimoly MP 3	High-performance lubricating paste	07 55 9 062 476	100 g tube
Optimoly TA	High-temperature assembly paste	18 21 9 062 599	100 g tube
Silicone grease 300, heavy	Damping grease	07 58 9 058 193	10 g tube
Retinax EP2	Wheel, steering head and taper roller bearing grease	83 22 9 407 845	100 g tube
Contact spray	Contact spray	81 22 9 400 208	300 ml spray
Chain spray	Drive chain	72 60 2 316 676 72 60 2 316 667	50 ml spray 300 ml spray
Sealants			
3-Bond 1110 B	Surface sealant	07 58 9 056 998	5 g tube
3-Bond 1209	Surface sealant	07 58 9 062 376	30 g tube
omni VISC 1002	Surface sealant (max. 200 °C/392 °F)	07 58 1 465 170	90 g tube
Loctite 574	Surface sealant	81 22 9 407 301	50 ml tube
Curil K 2	Heat-conductive sealant	81 22 9 400 243	250 g can
Hylomar SQ 32 M	Permanently elastic sealant	81 22 9 400 339	100 g tube
Adhesives and retainers			
Loctite 648	Surface sealant (narrow gap)	07 58 9 067 732	5 g bottle
Loctite 638	Surface sealant (wide gap)	07 58 9 056 030	10 ml bottle
Loctite 243	Thread retainer, medium-strength	07 58 9 056 031	10 ml bottle
Loctite 270	Thread retainer, strong	81 22 9 400 086	10 ml bottle
Loctite 2701	Thread retainer, strong	33 17 2 331 095	10 ml bottle
Loctite 454	Cyanacrylate adhesive (gel)	07 58 9 062 157	20 g tube
Cleaners			
Brake cleaner	Brake cleaner	83 11 9 407 848	600 ml spray
Metal Polish	Polish for parts	82 14 9 400 890	100 g tube
Testing agents			
Penetrant MR 68	Crack testing agent for aluminium housings	83 19 9 407 855	500 ml spray
Developer MR 70	Crack testing agent for aluminium housings	81 22 9 407 495	500 ml spray
Installation aid			
BMW chilling spray	Chilling components before assembly	83 19 9 407 762	300 ml spray





Checking the shipping crate for damage

- When the motorcycle arrives, check the crate immediately for damage and, if necessary, examine the contents for consequential damage.



Damage discovered in Germany

- Note the damage on the delivery slip.
- Read the information sheet on damage in transit.
- Notify the supplier without delay (e.g. freight company or DB) and also
Bavaria Wirtschaftsagentur GmbH
Abteilung ZW - 12
80788 München
Tel. 089/14327-632
Fax. 089/14327-709

Damage discovered in importer markets

- Note the damage on the delivery slip.
- Comply with specific national market procedures. If in doubt, please refer your queries to:
Bavaria Wirtschaftsagentur GmbH
Abteilung ZW - 12
D - 80788 München
Tel. +49 (0)89 14327 632
Fax. +49 (0)89 14327 709
- Notify the supplier (e.g. freight company) without delay.