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K 1200 LT

**BMW AG Motorcycle Division
After Sales**

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Usage

Each chapter starts with the list of contents.

The list of contents is followed by the Technical Data table.

Chapter 00 "Maintenance and general instructions" details the handover checklist and lists all tightening torques and operating fluids.

Key to symbols

In this Workshop Manual for the K 1200 LT model, the following symbols are used; their meanings are explained in the table.

Special instructions aimed at improving the work procedures



Note:

Specific information on operating, inspecting and adjusting work for the motorcycle as well as maintenance procedures.



Caution:

Instructions and precautions specifically intended to prevent damage to the motorcycle. Failure to comply with them could invalidate the warranty.



Caution:

This symbol stands for precautions and measures which are essential in order to protect the rider or other persons from possibly severe or fatal injury.

Contents

Headlines for the work described in the chapter..... with the relevant page number

Activities

- Activities
- The bullet symbol means that work steps are described in greater detail under another headline
- Preceding activities
- A line indicates work steps described in greater detail under another headline or in another chapter

If the term "release" or "remove" is used:
the fastener (e.g. screw) must be slackened off and taken out
or
a component (e.g. fuel rail) must be removed to the extent that other components which it conceals (e.g. throttle-valve rail) are accessible

If the term "loosen" or "slacken" is used:
the fastener (e.g. screw) must only be slackened off but not taken out



Tightening torques:

Values are stated if they differ from DIN EN 24 014 or DIN 912 ISO industrial standards.

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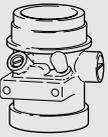
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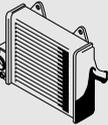
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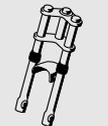
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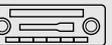
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Maintenance schedule

K 1200 LT



Customer _____ Licence plate No. _____		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
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**

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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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Tightening torques

Model	K 1200 LT	
Connection	Nm	
11 Engine		
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Cylinder head bolts	20	Oiled before installation
Joint torque		
Wrench angle	90°	
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Heat shield for cylinder-head cover	5	
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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	
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Oil drain plug	30	
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Model	K 1200 LT	
Connection	Nm	
11 Engine		
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Oil pressure relief valve screw plug		35
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Model	K 1200 LT
Connection	Nm
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Ignition coil to mounting plate	8
Mounting plate to intermediate flange	9
Cover, shield housing	5
Ignition signal sensor	
Rotor	4
Magnetic gate	6
Cover, ignition sensor	9
Alternator	
Mount to intermediate flange	20
Driver housing to alternator shaft	50
Connector, lead B+	10
Connector, lead D+	2
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Starter motor to gearbox	6
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Model	K 1200 LT
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17 Radiator	
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Model	K 1200 LT
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Model	K 1200 LT
Connection	Nm
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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
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Model	K 1200 LT
Connection	Nm
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Holder for brake line to sliding tube	4 (clean thread + Loctite 243)
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ABS sensor	4
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Model	K 1200 LT	
Connection	Nm	
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Stop screw, return spring for footbrake lever	5	
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Cover, rear carrier to case	1	
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Case trimmer to case	2	
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Attachments, battery holder	4
Speed sensor, rear wheel	4
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



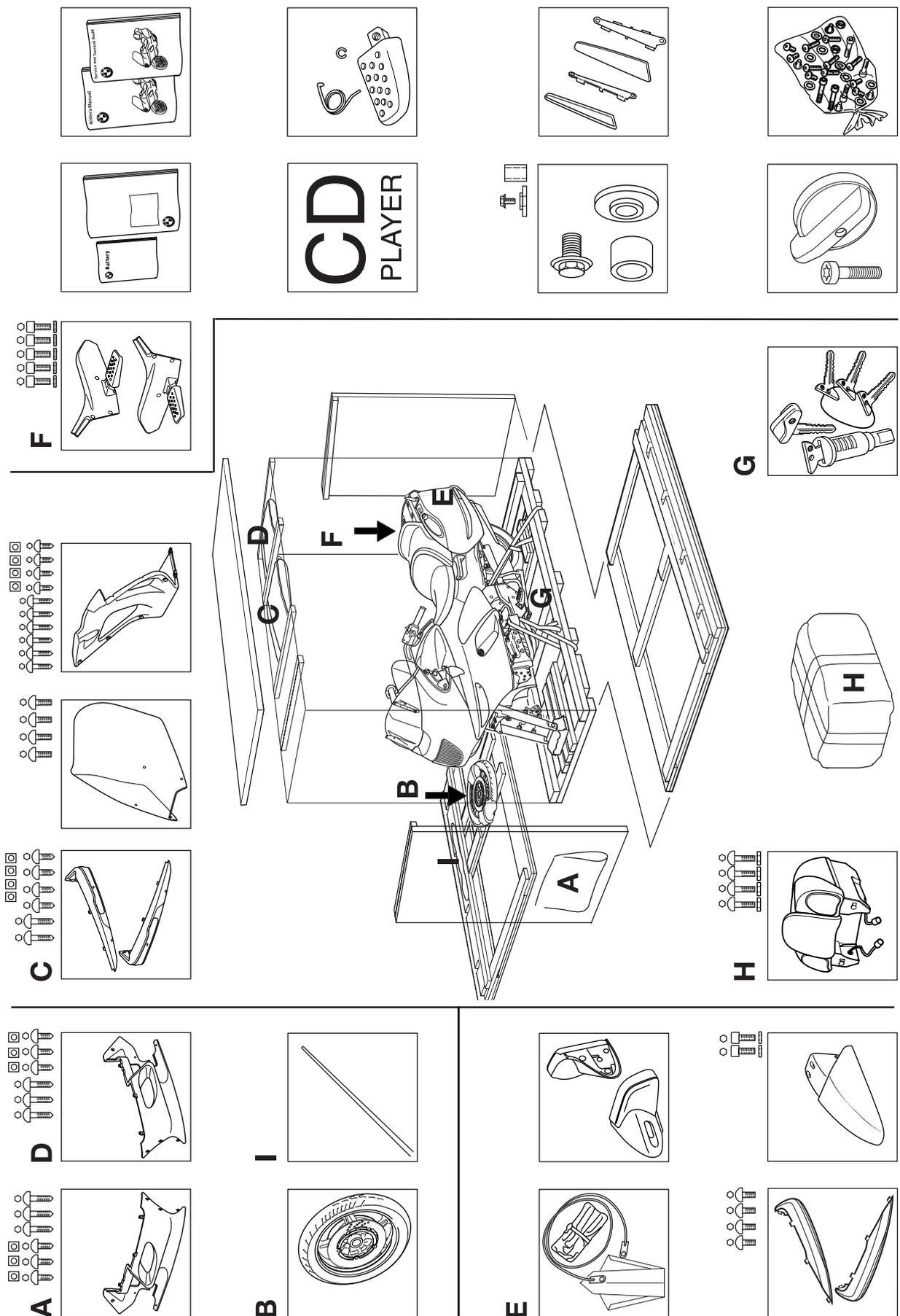
Table of operating fluids

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





Overview: K1200LT packing materials



- 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.