

Repair Manual



K 1100 LT/RS

**BMW AG Motorcycle Division
After Sales**

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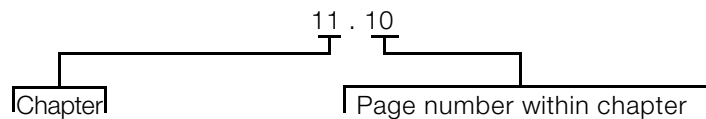
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Introduction

This repair manual will help you to perform all the main maintenance and repair work correctly and efficiently. If it is consulted regularly by workshop personnel it will form a useful addition to the theoretical and practical knowledge acquired at the BMW Training Centre. It is a contribution towards achieving even higher Service quality.

All information in both text and illustrations refers to motorcycles in standard condition or with genuine BMW accessories installed, and not to motorcycles which have been modified in any way to depart from the manufacturer's specification.

- The repair manual is structured in the logical sequence of the work to be performed: Removal, Disassembly, Repair, Assembly, Installation.
- The entire contents are divided into individual chapters, corresponding to the Construction Groups.



- Work to be performed during an Inspection is described in Group "00". The various inspection routines are numbered I, II, III and IV. This numbering is repeated in the work descriptions which follow, so that work can take place without interruption.
- Use of the BMW special tools needed for certain tasks is described in the work instructions.

If the need arises, repair instructions are also issued in the form of Service Information. This information is of course incorporated into the next issue of the repair manual. We also recommend, as an additional source of information, the Electronic Parts Catalogue (ETC), which contains clear and easy-to-follow illustrations.

If the work described here is restricted to a particular equipment specification, for instance if a specific optional extra (OE) is fitted, this is stated in square brackets at the start of the item concerned, e.g. **[LT]**.

Please refer to the following pages as well for a description of other symbols used and how to work with it.

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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



Tightening torques:

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

BMW AG Motorcycle Division Maintenance Schedule

K 75 RT/K 1100 RS/LT (from 1993 only)



Customer	Registration No.	BMW Inspection 1000 km/600 mls	BMW Service 10000 km/ 6000 miles	BMW Inspection 20 000 km/ 12 000 miles	BMW Annual Service
Order No.	Signature of mechanic				
Change oil when engine at regular operating temperature, renew oil filter element ¹⁾		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change oil in gearbox, final drive and telescopic fork ²⁾		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Clean inductive sensor at rear wheel ²⁾				<input type="checkbox"/>	
Grease upper/lower clutch cable nipples and side/centre stand pivots			<input type="checkbox"/>	<input type="checkbox"/>	
Renew intake air cleaner element ³⁾				<input type="checkbox"/>	
Renew fuel filter element ⁴⁾				<input type="checkbox"/>	
Check hose clips on fuel and cooling system for leaks and take up slack if necessary		<input type="checkbox"/>		<input type="checkbox"/>	
Check coolant level and concentration, and top up if necessary				<input type="checkbox"/>	
Renew coolant after at least every 2 years *					<input type="checkbox"/>
Check brake pads and discs for wear, renew if necessary *)			<input type="checkbox"/>	<input type="checkbox"/>	
Check front/rear brake fluid level, top up if necessary *) [SI 00 027 95 (716)]		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Check brake system with regard to function, leaks; repair/renew as required *)				<input type="checkbox"/>	
Renew brake fluid at least once a year					<input type="checkbox"/>
Check sensor gap for ABS at front and rear, adjust if necessary ⁶⁾		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Check sensor/pulse wheel for ABS at front and rear for contamination, clean if necessary ^{6) 5)}			<input type="checkbox"/>	<input type="checkbox"/>	
Check operation of electric side stand switch (angle)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Check clutch operating clearance, adjust if necessary		<input type="checkbox"/>		<input type="checkbox"/>	
Check free travel at throttle and cold-start (choke) cables, adjust if necessary		<input type="checkbox"/>		<input type="checkbox"/>	
Renew spark plugs				<input type="checkbox"/>	
Read out MOTRONIC fault memory ⁷⁾			<input type="checkbox"/>	<input type="checkbox"/>	
Check valve clearances, adjust if necessary ⁸⁾		<input <sup="" type="checkbox"/> 5)		<input type="checkbox"/>	
Check steering head bearing play, adjust if necessary *)				<input type="checkbox"/>	
Check battery acid level, top up with distilled water if necessary				<input type="checkbox"/>	<input type="checkbox"/>
Clean and grease the battery posts, if necessary				<input type="checkbox"/>	<input type="checkbox"/>
Take up slack at bolts and nuts:					
– power unit to frame					
– suspension strut mounts		<input type="checkbox"/>		<input type="checkbox"/>	
– side/center stand pivot					
– rear wheel studs					
Apply silicone spray to guide rods of adjustable windshield (only K 1100 LT, K 75 RT)				<input type="checkbox"/>	<input type="checkbox"/>
Check idle speed, throttle synchronisation and CO value, adjust if necessary		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Final inspection with safety/operating check:					
– condition of tyres and wheels, tyre pressures					
– lights and signal systems					
– telltale and warning lights					
– clutch and gear shift		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
– handbrake and footbrake, ABS					
– steering					
– instruments					
– test ride, if necessary					

Recommendation: In severe operating conditions, grease the throttle twistgrip and steering head bearings at least every 30,000 km (18,000 miles) *)

¹⁾ at least every 6 months; if motorcycle is used only for short journeys or at outside temperatures below 0°C, every 3 months, and at least every 3,000 km (1,800 miles)

²⁾ at least once a year

³⁾ in very dirty or dusty conditions, renew the intake air cleaner element every 10,000 km (6,000 miles), or even more frequently if necessary

⁴⁾ normally every 40,000 km (24,000 miles), but if fuel is of poor quality every 20,000 km (12,000 miles)

⁵⁾ K 75 models only

⁶⁾ only motorcycles with ABS

⁷⁾ only motorcycles with catalytic converter

⁸⁾ on all K models, renew the lining on the chain tensioner rail every 60,000 km (36,000 miles)

*) invoiced as a separate item

BMW AG Motorcycle Division

Pre-delivery Check

K 75 RT/K 1100 RS/LT (from 1993 only)

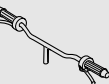
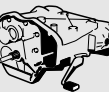
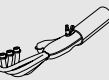
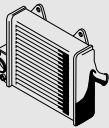
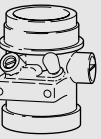
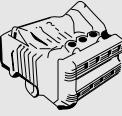


<p>_____</p> <p>Customer</p>	<p>_____</p> <p>Registration No.</p>	<p>BMW Pre-delivery check</p>
<p>_____</p> <p>Order No.</p>	<p>_____</p> <p>Signature of mechanic</p>	
<p>Inspect crates on receipt for signs of damage</p>		<p><input type="checkbox"/></p>
<p>Motorcycle:</p> <ul style="list-style-type: none"> - unpack - check scope of delivery - install front wheel - complete - clean 		<p><input type="checkbox"/></p>
<p>Battery:</p> <ul style="list-style-type: none"> - remove - add battery acid - charge - grease the terminal posts - re-install (mark date) 		<p><input type="checkbox"/></p>
<p>Check complete specification delivery:</p> <ul style="list-style-type: none"> - tools - handbooks and documents - keys - optional extras 		<p><input type="checkbox"/></p>
<p>Check front and rear wheel brake fluid levels (only disc brake)</p>		<p><input type="checkbox"/></p>
<p>Check switch function of electrically-operated side stand (angle)</p>		<p><input type="checkbox"/></p>
<p>Check torque setting of the rear wheel retaining studs</p>		<p><input type="checkbox"/></p>
<p>Check tyre pressure</p>		<p><input type="checkbox"/></p>
<p>Fuel the motorcycle</p>		<p><input type="checkbox"/></p>
<p>Safety/operating check as final inspection:</p> <ul style="list-style-type: none"> - idle speed - clutch, gear shifting - steering - front and rear brakes, ABS - telltale and warning lights, instruments, lighting and signalling equipment - adjust the headlight - test ride, if necessary 		<p><input type="checkbox"/></p>

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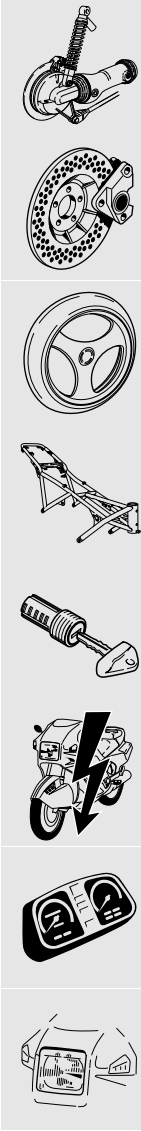
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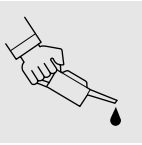
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00 Maintenance and general instructions



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