Repair Manual



K 1200 LT

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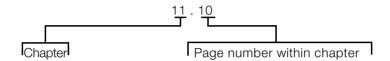
Introduction

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.

A new issue of this repair manual will be published if amendments or additions (supplements) are needed.

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.



An arrow symbol followed by the chapter and page numbers is a reference to another chapter, e.g. || See Group 46

- 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. **[With heat-ed handlebar grips]**.

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

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.

Contents

Group / Chapter

00 Maintenance and general instructions	00.1
11 Motor	11.1
12 Engine electrics	12.1
13 Fuel preparation and control	13.1
16 Fuel tank and lines	16.1
17 Radiator	17.1
18 Exhaust system	18.1
21 Clutch	21.1
23 Gearbox	23.1
31 Front fork	31.1
32 Steering	32.1

Group / Chapter

65 Radio and optional extras

33 Rear wheel drive	33.1	(
34 Brakes	34.1	
36 Wheels and tyres	36.1	
46 Frame	46.1	e
51 Equipment	51.1	(
52 Seat	52.1	
61 General electrical equipment	61.1	
62 Instruments	62.1	
63 Lights	63.1	ę

65.1

BMW AG Motorcycle Division Maintenance schedule K 1200 LT



		u o	ka E	5 E	Φ
Customer	Licence plate No.	BMW Inspection at 1,000 km (600 miles)	Service 10,000 miles)	BMW Inspection every 20,000 km (12,000 miles)	BMW Annual Service
Order No.	Mechanic's signature	BMW at 1,0 (600 r	BMW every (6,000	BMW every (12,000)	BMW
Read out the fault memory with the I	BMW MoDiTeC unit				
Check throttle cable play, adjust if no	ecessary				
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) *)					
Change oil in gearbox while at operating temperature at least every 2 years *)					every 2 years
Change oil in rear wheel drive while at operating temperature at least every 2 years *)					every 2 years
Examine brake pads and discs for w	ear, replace if necessary *)				
Check the front/rear brake fluid level					
Check operation of brake system an	d freedom from leaks; repair/replace items if necessary *)				
Replace the brake fluid at least on	ce a year				
Check clutch operating fluid level					
Change clutch fluid every 40,000 km (24,000 miles) or at least every 2 years *)				40,000	every 2 years
Replace fuel filter *) generally every 40,000 km (24,000 miles), if the	e fuel is of poor quality, every 20,000 km (12,000 miles)			40,000	
Check and top up, where necessary	, coolant level and concentration				
Replace the coolant at least every	2 years*)				every 2 years
Check battery acid level, if necessary add distilled water Clean/grease battery terminals if necessary					
Replace intake air cleaner element If severe dirt and dust are encountered, repla frequently *)	ce the intake air cleaner every 10,000 km (6,000 miles) or even more				
Check function of side stand contact	t switch				
Grease side stand bearing, check the necessary *)	at the centre stand moves freely, and grease it if				
Check the steering damper					
Check tightness of rear wheel studs		Ш		_	
Check rear wheel bearing play by ro		_			
Check swinging arm bearings (free of play), adjust if necessary *)		Ш			
Clean the inductive sensor on the re every 40,000 km (24,000 miles) or at least ever				40,000	every 2 years
Check valve clearances, adjust if ne	cessary				
Replace the lining of the chain tension (36,000 miles)*)	oning rail and chain guide rail every 60,000 km			60,000	
Replace spark plugs					
Lighting and signalling equipmerReversing aid, radio with remoteTrial run if necessary					
*) Charged as an additional item					

BMW AG Motorcycle Division Pre-delivery check K 1200 LT



Customer	Licence plate No.	BMW Pre-delivery check
Order No.	Mechanic's signature	·
Check the shipping crate for damage		
Unpacking the motorcycle unpack inspect for damage check that delivery is complete	Motorcycle keys Top case lock cylinder Toolkit and helmet lock Documentation Top case (packed separately) Optional extras	
 Installing remaining items on motorcycle Fit front wheel and mudguard Fit the mirror Fit the right-hand side footrest and p Fit engine spoiler, reversing aid actu Install the top case 	passenger footrest plate	
Fill and charge the battery (mark with ch	narging date)	
Check the front/rear brake fluid level		
Check clutch fluid level		
Check tyre pressures		
Check rear wheel studs for tightness (no	ote correct tightening torque)	
Fit antenna, windshield		
Checking and adjusting the motorcycle - Check function of side stand contact - Seat - Top case - Headlight, spring strut	t switch	
Add fuel		
 Final inspection and function check Check engine oil when engine is col Clutch, gearshift mechanism, revers Lighting and signalling equipment, to Check radio for operation Hand brake and foot brake, ABS Check optional equipment for operation D player, on-board computer, cruis Trial run if necessary 	ing aid elltale lights, instruments tion	
Confirm pre-delivery check in Service an	nd Technical Booklet	
Final cleaning		
Motorcycle handed over on:		