Repair Manual



R 1100 S

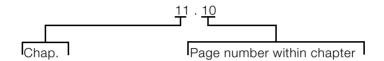
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Introduction

This repair manual will help you to perform all the main maintenance and repair work correctly and efficiently. It should be consulted regularly by workshop personnel as an addition to the practical and theoretical knowledge obtained in Training School courses. 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 you to consult the detailed illustrations on the Parts microfiches as an additional source of information.

BMW AG Motorcycle Division After Sales

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BMW AG Motorcycle Division Maintenance schedule R 1100 S



	u o	Ę	E E	Φ
Customer Licence plate No.	BMW Inspection at 1,000 km	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	BMW at 1,00	BMW every (6,000	BMW every (12,00	BMW
Read out the fault memory with the BMW MoDiTeC unit				
Change the oil while at regular operating temperature and renew the element if motorcycle is used only for short journeys or at outside temperatures under 0°C, e but at least every 3,000 km (1,800 miles) *)				
Change the oil in the gearbox while at regular operating temperature at least every 2 years				every
Change the oil in the rear wheel drive while at regular operating temper. Clean the inductive sensor at the rear wheel every 40,000 km (24,000 miles) or at least every 2 years *)	erature		40,000 (24,000)	2 years every 2 years
Renew fuel filter *) normally every 40,000 km (24,000 miles), if fuel quality is poor every 20,000 km (12,000	00 miles)		40,000 (24,000)	
Check battery acid level, if necessary add distilled water Clean/grease battery poles if necessary				
Renewing intake air cleaner element in very dusty or dirty operating conditions, renew the intake air cleaner element every 10,000 km (6,000 miles) or even more often if necessary *)				
Renew Poly-V belt *) Renew Poly-V belt every 60,000 km (36,000 miles); do not adjust			60,000 (36,000)	
Check brake fluid level at front/rear and top up if necessary *)				
Check operation of brake system and freedom from leaks; repair/renew items if necessary *)				
Examine brake pads and discs for wear, renew if necessary *)				
Renew the brake fluid annually				
Check clutch operating fluid level				
Change clutch fluid every 40,000 km (24,000 miles) or at least every 2 years *)			40,000 (24,000)	every 2 years
Check tightness of rear wheel studs				
Check rear wheel bearing play by tilting wheel				
Check swinging arm bearings (zero play); adjust if necessary *)				
Grease the side (prop) stand pivot				
Check function of side (prop) stand contact switch				
Check condition of spark plugs				
Renew spark plugs *)				
Take up slack at cylinder head nuts				
Check/adjust valve operating clearances				
Check throttle cable for free movement, abrasion and kinking; renew Check free travel in throttle cable Check synchronisation and eliminate any leaks *)	if necessary *			
Final inspection with road safety and functional check: - condition of tyres and wheels, tyre pressures - lights and signalling equipment - telltale and warning lights - clutch, gear shift - handbrake and foot brake, steering - instruments - trial run if necessary *) Charged as an additional item				

BMW AG Motorcycle Division Pre-delivery check R 1100 S



Customer	Licence plate No.	BMW Pre-delivery check
Order No.	Mechanic's signature	,
Checking the shipping crate for dama	age	
Motorcycle: - unpack - attach items supplied loose - inspect for damage - check that delivery is complete:	tools documentation keys correct optional extras	
Fill and charge the battery (mark with charging date)		
Check engine oil level when cold; add oil if necessary		
Check clutch operating fluid level and brake fluid levels at front and rear		
Check headlight beam angle and adjust if necessary		
Checking tightness of rear wheel stude (comply with correct tightening torque	ds e)	
Check tyre pressures		
Add fuel		
Final inspection and functional check: - clutch, gear shift - handbrake, foot brake - lighting and signalling equipment, telltale lights, instruments - check operation of optional extras, ABS - trial run if necessary		
Confirm pre-delivery check in Service	and Technical Booklet	
Final cleaning		
Motorcycle handed over on:		

00 Maintenance and general instructionsTightening torques and Table of consumables
Pre-delivery check Maintenance

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