

Repair Manual



K 1100 LT/RS

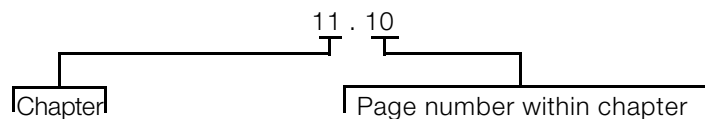
**BMW AG Motorcycle Division
After Sales**

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.

BMW AG Motorcycle Division
After Sales

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BMW AG Motorcycle Division

Maintenance Schedule

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



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

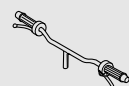
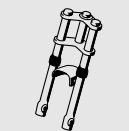
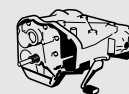
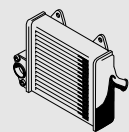
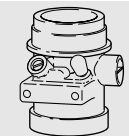
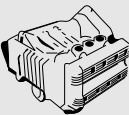
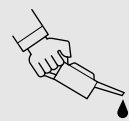
Recommendation: In severe operating conditions, grease the throttle twistgrip and steering head bearings at least every 30,000 km (18,000 miles) *)

- 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

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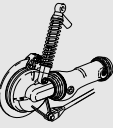
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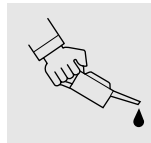
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00 Maintenance and general instructions



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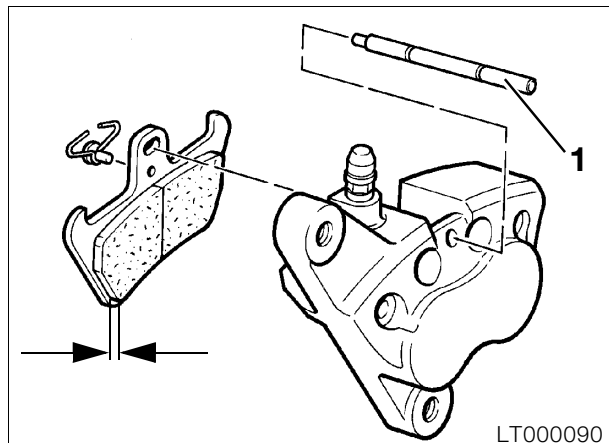
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Checking brake pads, brake discs for wear and renewing if necessary

Inspection II, III

Front wheel brake



- Remove rear section of mudguard.
- Remove brake caliper.



Note:

It is not necessary to release the brake line at the brake caliper if only the brake pads are to be changed.

- Drive out retaining pin (1).
- Remove brake pads by pulling in downward direction.

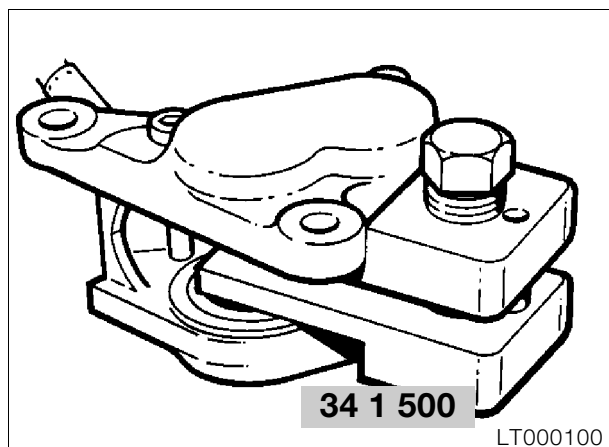


Caution:

The brake pad thickness (arrows) must not drop below the minimum specified value. Change pads only as complete sets.

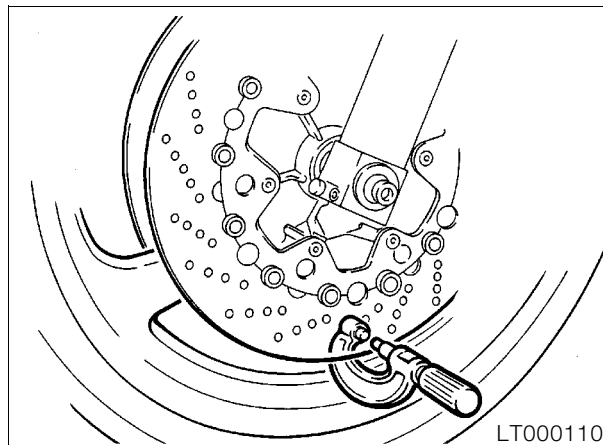
Min. pad thickness on carrier plate.... 1.5 mm (0.06 in)

- Install in the reverse order of removal.



Note:

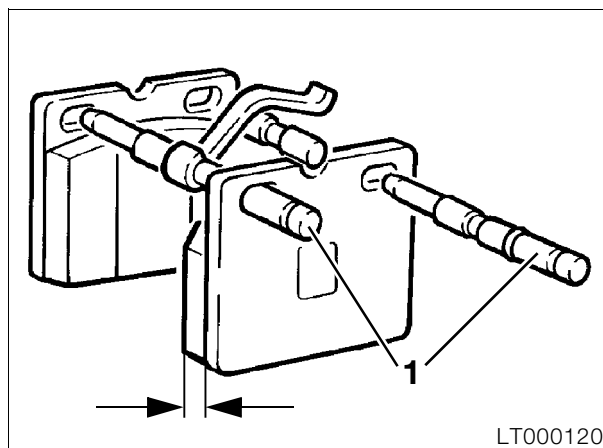
Before installing the brake caliper, completely press back pistons with resetting tool (1), **BMW No. 34 1 500**.



- Measure thickness of brake disc with a micrometer.

Wear limit 4.5 mm

Rear wheel brake



- Lever off cap from brake caliper.
- Remove brake caliper.
- Drive out retaining pins (1) from wheel side.
- Remove brake pads by pulling upward.
- Install in the reverse order of removal.

Minimum pad thickness on carrier plate..... 1.5 mm (0.06 in)

Wear limit of brake disc 4.5 mm (0.177 in)

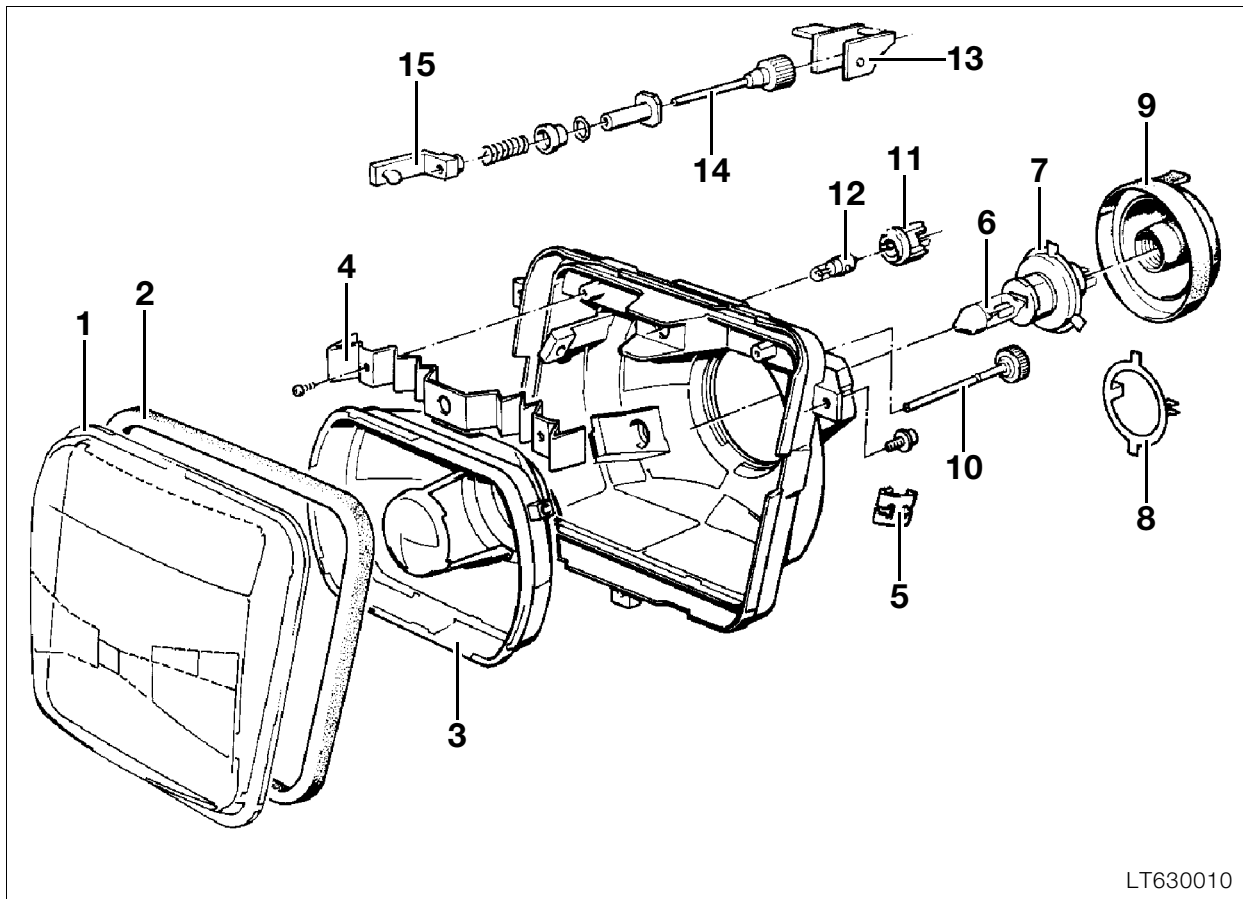
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LT630010

Disassembling and assembling headlights

- Remove upper section of fairing.
- Remove headlight.
- Release retaining spring (5).



Note:

Do not touch the inside of the reflector or bulbs with bare hands.

Individual parts:

1. Glass
2. Gasket
3. Reflector
4. Reflector
5. Retaining spring
6. Bulb
7. Bulb socket
8. Retaining spring
9. Cover
10. Adjusting screw
11. Lamp socket
12. Bulb
13. Swivel lever
14. Adjusting screw
15. Bracket

