

Bmw K1100lt Repair Manual

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Repair Manual



K 1100 LT/RS

**BMW AG Motorcycle Division
After Sales**

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Published by BMW AG Motorcycle Division
After Sales
UX-VS-2

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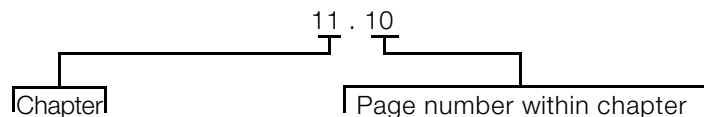
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Introduction

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.

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



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 [*] [III] 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 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)

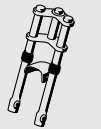
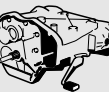
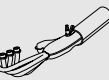
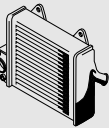
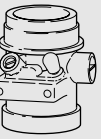
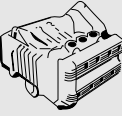


<p>_____</p> <p>Customer</p>	<p>_____</p> <p>Registration No.</p>	BMW Pre-delivery check
<p>_____</p> <p>Order No.</p>	<p>_____</p> <p>Signature of mechanic</p>	
Inspect crates on receipt for signs of damage		<input type="checkbox"/>
<p>Motorcycle:</p> <ul style="list-style-type: none"> - unpack - check scope of delivery - install front wheel - complete - clean 		<input type="checkbox"/>
<p>Battery:</p> <ul style="list-style-type: none"> - remove - add battery acid - charge - grease the terminal posts - re-install (mark date) 		<input type="checkbox"/>
<p>Check complete specification delivery:</p> <ul style="list-style-type: none"> - tools - handbooks and documents - keys - optional extras 		<input type="checkbox"/>
Check front and rear wheel brake fluid levels (only disc brake)		<input type="checkbox"/>
Check switch function of electrically-operated side stand (angle)		<input type="checkbox"/>
Check torque setting of the rear wheel retaining studs		<input type="checkbox"/>
Check tyre pressure		<input type="checkbox"/>
Fuel the motorcycle		<input type="checkbox"/>
<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 		<input type="checkbox"/>

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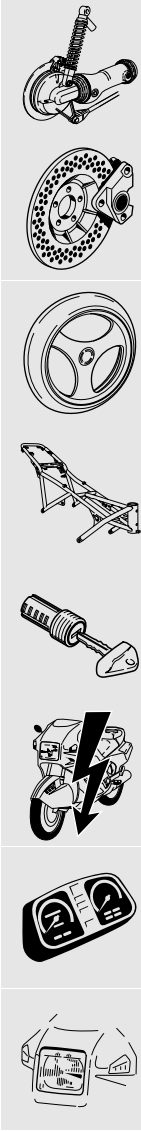
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00 Maintenance and general instructions



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Tightening torque

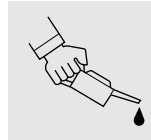
Model	K 1100 LT	K 1100 RS
Connection	Nm	
11 Engine		
Freewheel		
Cover plate/freewheel cage at countershaft gear	10	
Oil - water pump		
Oil pressure switch	40	
Temperature sensor/screw plug	9	
Pressure relief valve	40	
Impeller	33	
Pump housing to crankcase	10	
Cover to pump housing	10 (3-Bond 1209)	
Intermediate flange		
Thrust plate at intermediate flange	9 (Loctite 243)	
Intermediate flange at crankcase	9	
Crankshaft		
Pinion/rotor flange at crankshaft	50	
Main bearing cap to crankcase	50	
Connecting rod		
Big end cap Wrench angle	80 °	30
Input shaft		
Front bearing	18	
Rear bearing	40	
Engine block		
Crankshaft cover	9	
Lower part, outer	10	
Oil sump	10	
Oil filter cover	10	
Oil drain plug	30	
Cylinder head		
Cylinder head bolts (SI 11 062 95 (697) Short thread (from 6/93 to 11/94): Wrench angle, 1st stage Wrench angle, 2nd stage	64° 42°	22
Long thread (since 12/94): Wrench angle, 1st stage Wrench angle, 2nd stage	75° 75°	20
Cylinder head cover	9	
Camshaft		
Bearing cap	9 (Apply a thin coat of 3-Bond 1209 only at corners and butt edges)	
Chain sprockets	54	





Model	K 1100 LT	K 1100 RS
Connection	Nm	
Timing chain		
Chain tensioner	9	
Slide rail at camshaft bearing cap	9	
Timing case cover		
Timing case cover	10 (3-Bond 1209)	
Cover for Hall-effect signal transmitter	9	
Screw plug	40	
Clutch		
Clutch housing to output shaft Tighten to Release and re-tighten to Wrench angle	140 50 50°	
Housing cover	19	
Alternator		
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Driver	33	
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12 Engine electrical system		
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Alternator to intermediate flange	22	
Clutch housing	50	
Base plate	3,5	
Setting ring	2,5	
Hall generator cover	9	
Ignition coils to intermediate flange	5	
Spark plug	20	

Model	K 1100 LT	K 1100 RS
Connection	Nm	
13 Fuel preparation and control		
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Lower section of air cleaner housing	21	
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Motronic control unit	5	
17 Radiator		
Connecting screw, temperature sensor	9	
Fastening, thermostat cover	3	
Radiator to frame	9	
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Temperature sensor to coolant stub pipe	30	
18 Exhaust System		
Exhaust system to cylinder head	21	
Front silencer (muffler)	12	
Exhaust system holder to footrest plate	33	
Exhaust system to holder/footrest plate	9	
Retaining bracket to gearbox	41	
Oxygen sensor	Hand-tight	
21 Clutch		
Clutch housing to output shaft tighten to loosen and retighten to tightening angle	50°	140 50
Housing cover	19	



Model	K 1100 LT	K 1100 RS
Connection	Nm	
23 Transmission		
Transmission cover to transmission	9	
Machine screw for neutral stop	13	
Stud bolt, selector shaft	17 (Loctite 243)	
Transmission to intermediate flange	16	
Frame mounting to transmission	45	
Bearing mount to transmission	41 (Loctite 243)	
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Fixed bearing of swinging arm to transmission	9	
Swinging arm bearing journal (loose bearing)	7,5	
Locknut of bearing journal	41	
Fixed bearing rear wheel drive in swinging arm	150 (clean thread + Loctite 2701)	
Bearing pin, loose bearing rear wheel drive in swinging arm	7 (clean thread + Loctite 2701)	
Locknut, loose bearing rear wheel drive in swinging arm	105 (clean thread + Loctite 2701)	
Suspension strut to frame/rear wheel drive	51	
Brake caliper	32	
Hinterradschrauben	105	
Exhaust to cylinder head	21	
Silencer to holder/footrest plate	9	
Front silencer to transmission	12	
Footrest plate to transmission	15	
31 Front fork		
Oil filler plug	10	
Oil drain plug	3,5	
Spring support bearing	20	
Locking tube	65	
Hexagon nut	65	
Clamping screws of fork bridges	15	
Bottom screw fitting	47	
Handlebar clamp block	22	
Fork stabilisor	22	



Model	K 1100 LT	K 1100 RS
Connection	Nm	
32 Steering		
Clamping screws for handlebar fitting	5	
Clamping screws	22	
Clamping block to fork bridge	16	
33 Rear wheel drive		
Threaded ring	118 (clean thread + Hylomar SQ 32M)	
Hexagon nut, drive bevel gear	200 (clean thread + Loctite 273)	
Housing cover	35	
Swinging arm fixed bearing to transmission	9	
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Bearing pin, loose bearing rear wheel drive in swinging arm	7 (clean thread + Loctite 2701)	
Locknut, loose bearing rear wheel drive in swinging arm	105 (clean thread + Loctite 2701)	
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Model	K 1100 LT	K 1100 RS
Connection	Nm	
34 Brakes		
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ABS sensor front/rear	4	
Brake caliper to sliding tube/rear wheel drive	40	
Brake line to brake caliper	18	
Bleed screws at brake caliper front	14	
Bleed screws at brake caliper rear	11	
Brake hose to distributor	18	
Brake hose to master brake cylinder	18	
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1. All studs handtight	105	
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3. Tighten the central stud		
4. Tighten the outer studs		

Model	K 1100 LT	K 1100 RS
Connection	Nm	
46 Frame		
Frame to engine	45	
Fairing support bracket to frame	9	
Suspension strut to frame/rear wheel drive	51	
Handlebar to clamping block	22	
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Footrest plate	15	
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Brake line to distributor	11	
51 Equipment		
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Shear bolts	to shear point (~ 20)	
61 General electrical equipment		
Central earth (ground)	9	
Motronic control unit	5	



Table of operating fluids



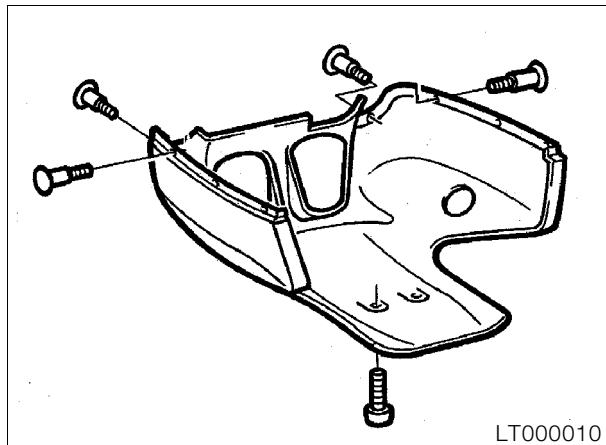
Item	Use	Order number	Quantity
Lubricant			
Optimoly MP 3	High-performance lubricating paste	07 55 9 062 476	100 g tube
Optimoly TA	High-temperature assembly paste	18 21 9 062 599	100 g tube
Silicone grease 300, heavy	Damping grease	07 58 9 058 193	10 g tube
Retinax A	Wheel, steering head and taper roller bearing grease	81 22 9 407 710	100 g tube
Contact spray	Contact spray	81 22 9 400 208	300 ml spray
Sealants			
3-Bond 1209	Surface sealant	07 58 9 062 376	30 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 retaining agents			
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
3-Bond 1110 B	Surface sealant	07 58 9 056 998	5 g tube
Cleaners			
Brake cleaner	Brake cleaner	83 11 9 407 848	600 ml spray
Testing agents			
Penetrant MR 68	Crack testing agent for aluminium housings	81 22 9 407 494	500 ml Spray
Developer MR 70	Crack testing agent for aluminium housings	81 22 9 407 495	500 ml spray

Key to maintenance intervals

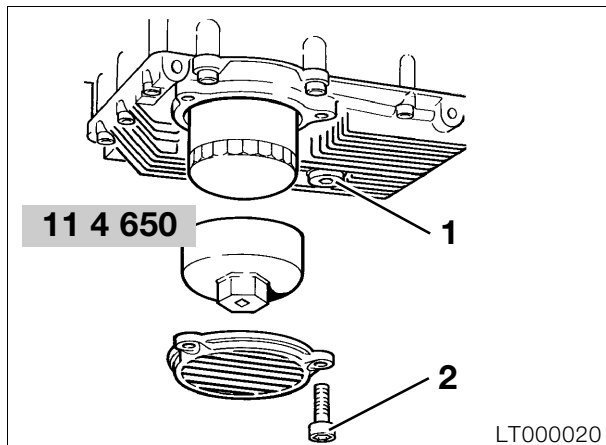
- Inspection at 1000 km (600 miles)I
- BMW Service at 10,000 km (6000 miles)II
- BMW Inspection at 20,000 km (12,000 miles)III
- BMW Annual Service IV

Changing engine oil

Inspections I, II, III, IV



- [RS] Remove lower section of fairing.



- Change oil at operating temperature.
- Oil drain plug (1).
- Remove oil filter cover retainer (2).
- Unscrew oil filter with special wrench **BMW No. 11 4 650**.



Note:

Coat sealing ring on new oil filter element with oil. Screw in oil filter handtight, take note of hint at filter.

- Replace O-ring in cover, if necessary.



Tightening torques:

Oil drain plug 18 Nm
Cover to oil sump 6 Nm

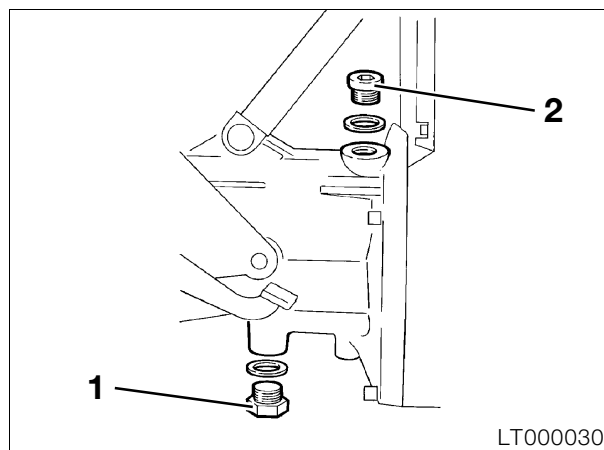
Quantities:

Oil content 3.50 l (6.16 Imp.pt)
Oil content with filter change 3.75 l (6.6 Imp.pt)
See service data for oil grades Seite 00.3



Changing oil in transmission (gearbox)

Inspections I, III, IV



- Drain off oil with engine at operating temperature.
- Oil drain plug (1)
- Oil filler plug (2)



Note:

Renew sealing rings.



Tightening torques:

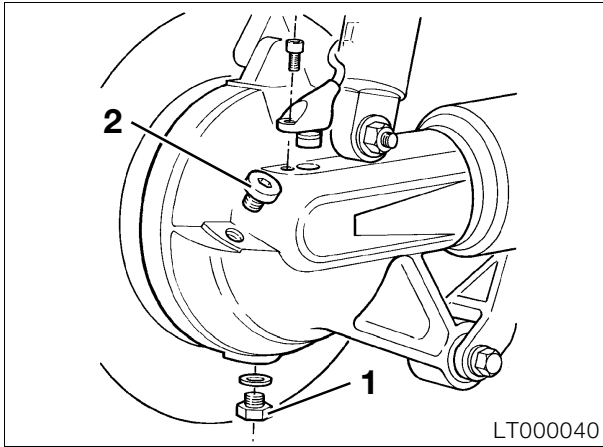
Oil drain plug 20 Nm
Oil filler plug 20 Nm

Quantities:

Oil filling capacity 0.85 l (1.496 Imp.pt)
See service data for oil grades Page 00.3

Changing oil in rear wheel drive

Inspections I, III, IV



- Drain off oil with drive at operating temperature.
- Oil drain plug (1)
- Oil filler plug (2)



Note:

Fill oil only up to the bottom-most thread turn of the filler hole.

Oil content:

Initial filling 0.25 l (0.44 Imp.pt)
 Oil changes 0.35 l (0.616 Imp.pt)
 See service data for oil grades Page 00.3



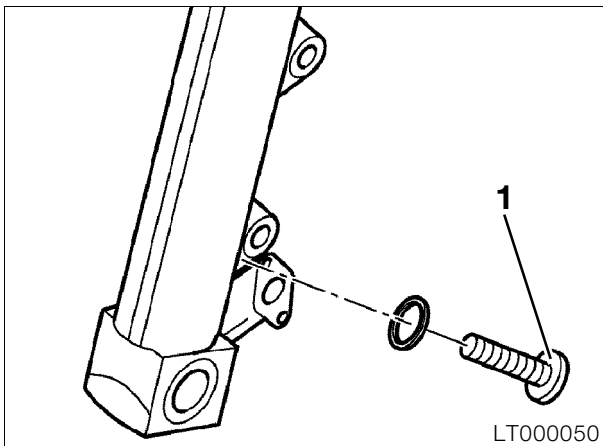
Tightening torques:

Oil filler plug 23 Nm
 Oil drain plug 23 Nm

Changing oil in telescopic fork

Inspection I, III, IV

- Support motorcycle on stand.
- Unscrew oil filler plugs.



- Release left and right oil drain plug (1).

- Pump out oil by compressing forks several times.
- Screw in oil filler plugs.
- Lift vehicle with lifting gear, **BMW No. 00 1 510**, until the front wheel can move freely.



Note:

The load on the front wheel must be relieved to ensure as much air as possible flows in before the fixed tubes are closed off with the filler plugs so as to provide additional damping.

- Fill with specified quantity of oil.
- Close off fixed tubes.

Quantities:

Oil capacity, left 0.35 - 0.01 l
 (0.616 - 0.0176 Imp.pt)
 Oil capacity, right 0.40 - 0.01 l
 (0.704 - 0.0176 Imp.pt)
 See service data for oil grades Page 00.3



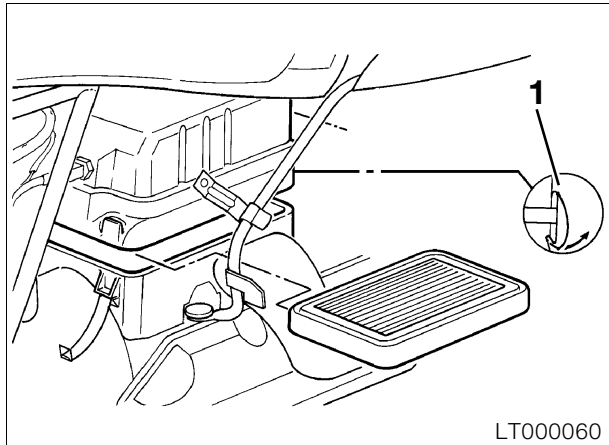
Tightening torque:

Oil filler plugs 20 Nm

Renewing intake air cleaner

Inspection III

- Detach battery panel on right.
- Remove right knee pad.
- Detach right side section of fairing.
- **[LT]** Take off intake air pipe.



- Release clips (1) at front and rear.
- Slightly raise casing cover, lift out air cleaner.
- Install in the reverse order of removal.



Note:

Note installation position of air cleaner. Lettering at rear, arrow marking "TOP-OBEN".