

Service and Technical Booklet

C1



Please note



Warning:

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.



Caution:

Specific instructions and safety precautions intended to prevent damage to the vehicle. Disregarding them may render the warranty invalid.



Note:

Specific instructions on how to operate, control, adjust or look after items of equipment on the vehicle.

Dear BMW C1 enthusiast

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BMW Service

For safety reasons and to maintain the value of your vehicle, regular maintenance intervals have been laid down.

Always keep to the specified maintenance intervals. This is the only way to ensure that warranty claims are not invalidated. The contents of maintenance schedules can change for safety reasons, owing to changes of materials, for example.

Your authorised BMW dealer can provide details of the currently specified Service, Inspection and Annual Service work needed.

Important:

BMW refuses to accept liability for damage or consequential damage due to repairs or service work carried out by other than BMW-authorised workshops.

Have service and inspection work carried out by specialists, preferably by your authorised BMW dealer's specially trained, expert personnel, and confirmed by an entry in the Service and Technical Booklet.

Authorised BMW dealers are supplied with the latest technical information and have the necessary technical know-how and specially trained staff.

If you have any questions about your vehicle, it is always best to contact your authorised BMW dealer.

Authorised BMW dealers are fully informed about all aspects of your vehicle and will gladly advise and assist you.

Best wishes,

BMW AG
Motorcycle Division

Important safety information

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BMW Service

For your own safety, use only genuine BMW spare parts and accessories approved by BMW.

If you choose genuine accessories and spare parts that have been tested and approved by the manufacturer, you can be sure that BMW has carried out the appropriate tests to confirm their suitability for use on your vehicle. BMW accepts full liability for these products.

Note however that BMW is unable to accept any liability for spare parts and accessories which it has not approved.

BMW cannot assess every single product of outside origin in order to decide whether it can be used on or with a BMW vehicle without constituting a safety hazard.

Nor is approval by an official technical inspection authority, or even the granting of a general operating permit necessarily a sufficient guarantee, since these test procedures are not always adequate.

Genuine BMW spare parts, accessories and other products which BMW has approved can be obtained from all authorised BMW dealers, together with expert advice on their installation and use.

Maintenance work

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BMW Service

Maintenance work is divided up into Service, Inspection and Annual Service.

Inspection

1,000 km/600 miles

BMW Running-in Check after the first 1,000 km (600 miles).

BMW Service

After the first 7,500 km (4,500 miles) and each additional 15,000 km (9,000 miles) (13,500 miles, 22,500 miles...)

BMW Inspection

After the first 15,000 km (9,000 miles) and each additional 15,000 km (9,000 miles) (18,000 miles, 27,000 miles...)

BMW Annual Service

Certain items of maintenance work depend on elapsed time as well as the distance the vehicle has covered. They should therefore be carried out at least once a year (e.g. renewing the brake fluid).

If these items cannot be carried out during a Service or an Inspection, an Annual Service must be performed.



Note:

Every authorised BMW dealer has a fixed scale of charges based on work times and carefully calculated hourly rates. Fuel, lubricants and similar substances, filters, gaskets etc. are charged separately.

Maintenance schedule

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BMW Service

	Inspection 1,000 km	BMW Service	BMW Inspection	BMW Annual Service
Read out the fault memory with the BMW MoDiTeC unit	X	X	X	X
Change the engine oil while at regular operating temperature and replace the oil filter element ^{1) *}	X	X	X	X
Clean oil strainer and the magnetic oil drain plug	X	X	X	X
Check telescopic forks and all spring struts for leaks		X	X	
Check coolant (concentration?) and top up if necessary [*]		X	X	
Change coolant [*]				X ²⁾
Check valve clearances, adjust if necessary	X	X	X	
Check condition of spark plug		X		
Replace spark plug [*]			X	
Replace the fuel filter ^{3) *}			X ⁴⁾	
Empty drain hose from the air filter housing	X	X	X	X
Replace the intake air filter element		X	X	
Replace variator (every 22,500 km) [*]		X		
Clean variator filter, replace if necessary [*]		X	X	
Check clutch liner, replace if necessary [*]		X	X	
Replace drive belt		X	X	

Maintenance schedule

	Inspection 1,000 km	BMW Service	BMW Inspection	BMW Annual Service
Grease variator		X	X	
Examine brake pads and discs for wear, replace if necessary *)		X	X	
Check brake-fluid level in front and rear systems, top up if necessary *)	X	X	X	
Check operation of brake system and check for leaks; repair/replace as necessary *)		X	X	
Brake lines and connections: check condition and routing		X	X	
Only with ABS: replace rubber boots for brake pistons in left and right handlebar fittings (every 30,000 km) *)			X	
Change the brake fluid annually				X
Check wheel bearings for play; replace if necessary *)	X	X		
Check that leading link bearing has zero play	X	X		X
Check body, fairing				X
Grease studs and rubber elements of front fairing panel	X	X	X	X
Check locks	X	X	X	X
Check headlight beam throw				X
Check windscreen washer system; adjust nozzles if necessary and top up washer fluid in reservoir	X	X		

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BMW Service

Maintenance schedule

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BMW Service

	Inspection 1,000 km	BMW Service	BMW Inspection	BMW Annual Service
Check windscreen wiper; replace wiper blade if necessary *)	X	X	X	X
Battery: Check battery acid level, if necessary add distilled water		X		X
Clean/grease battery poles if necessary			X	X
Easy-lift mechanism: grease pivot mounts of stand			X	
Easy-lift mechanism: check operation of mechanism and check freedom of movement		X	X	X
Check freedom of movement of Bowden cables, check for abrasion and damage; replace if necessary *) Check throttle-cable play	X	X	X	X
Restraint system: Check cable for release, belt buckles, belt strap, inertia reels, and belt lock; replace as necessary *)	X	X	X	X
Check crash element for damage; replace if necessary *)	X	X	X	X
Check shoulder bars; if necessary replace spacers *) (visual inspection)	X	X	X	X
Check security of threaded fasteners of engine mounts, frame, exhaust brackets, swinging-arm bearing, secondary swinging arm, stand, and stub axles	X	X	X	

Maintenance schedule

	Inspection 1,000 km	BMW Service	BMW Inspection	BMW Annual Service
Final inspection with road safety and functional check: – Steering, brakes (front and rear) – Condition of tyres and wheels, tyre pressures – Lights and signalling equipment, tell-tale and warning lights, instruments – Trial run if necessary	X	X	X	X
1) If the vehicle is used for short distances only or at outside temperatures below 0 °C: every 3 months or after every 3,000 km (1,800 miles) at the latest 2) Every 2 years at the latest 3) Every 30,000 km (18,000 miles) 4) Normally every 30,000 km (18,000 miles), if fuel is of poor quality every 15,000 km (9,000 miles) *) Charged as an additional item				

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BMW Service

Confirmation of maintenance work

1

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BMW Service

BMW Pre-delivery Check

Carried out in accordance with
manufacturer's instructions

Odometer reading 0

BMW (GB) Ltd
Motorcycle
3290 Subsidiary
After Sales 01344 480243



27/04/00 cl.
Date, stamp, signature

BMW Service 7,500 km

Carried out in accordance with
manufacturer's instructions

Odometer reading 3723 miles

Full Service
OIL FILTER / OIL
GEAR BOX / OIL
ANTI FREEZE
SPARK PLUG
20.9.03

Spec
Date, stamp, signature
Brake Fluid

BMW Inspection 1,000 km

Carried out in accordance with
manufacturer's instructions

Odometer reading _____

Date, stamp, signature

BMW Inspection 15,000 km

Carried out in accordance with
manufacturer's instructions

Odometer reading _____

Date, stamp, signature

Confirmation of maintenance work

BMW Service 22,500 km

Carried out in accordance with
manufacturer's instructions

Odometer reading _____

Date, stamp, signature

BMW Service 37,500 km

Carried out in accordance with
manufacturer's instructions

Odometer reading _____

Date, stamp, signature

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BMW Service

BMW Inspection 30,000 km

Carried out in accordance with
manufacturer's instructions

Odometer reading _____

Date, stamp, signature

BMW Inspection 45,000 km

Carried out in accordance with
manufacturer's instructions

Odometer reading _____

Date, stamp, signature

Confirmation of maintenance work

1

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BMW Service

BMW Annual Service

Carried out in accordance with
manufacturer's instructions

Brake fluid changed:

Yes ☐ No ☐

Coolant changed:

Yes ☐ No ☐

Date, stamp, signature

BMW Annual Service

Carried out in accordance with
manufacturer's instructions

Brake fluid changed:

Yes ☐ No ☐

Coolant changed:

Yes ☐ No ☐

Date, stamp, signature

BMW Annual Service

Carried out in accordance with
manufacturer's instructions

Brake fluid changed:

Yes ☐ No ☐

Coolant changed:

Yes ☐ No ☐

Date, stamp, signature

BMW Annual Service

Carried out in accordance with
manufacturer's instructions

Brake fluid changed:

Yes ☐ No ☐

Coolant changed:

Yes ☐ No ☐

Date, stamp, signature

Confirmation of maintenance work

BMW Annual Service

Carried out in accordance with
manufacturer's instructions

Brake fluid changed:

Yes ☐ No ☐

Coolant changed:

Yes ☐ No ☐

Date, stamp, signature

BMW Annual Service

Carried out in accordance with
manufacturer's instructions

Brake fluid changed:

Yes ☐ No ☐

Coolant changed:

Yes ☐ No ☐

Date, stamp, signature

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BMW Service

BMW Annual Service

Carried out in accordance with
manufacturer's instructions

Brake fluid changed:

Yes ☐ No ☐

Coolant changed:

Yes ☐ No ☐

Date, stamp, signature

BMW Annual Service

Carried out in accordance with
manufacturer's instructions

Brake fluid changed:

Yes ☐ No ☐

Coolant changed:

Yes ☐ No ☐

Date, stamp, signature

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12
BMW Service

Confirmations of service work

Record of all work carried out in workshop		
Work details	Odometer reading	Date

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BMW Service

This list is intended as a record of maintenance, warranty and repair work, of the installation of accessories, and also to confirm that special campaign work has been carried out.

[illegible]

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14
BMW Service

Confirmations of service work

Odometer replaced

Odometer reading,
not total distance covered.

Odometer reading _____

Date, stamp, signature

Odometer replaced

Odometer reading,
not total distance covered.

Odometer reading _____

Date, stamp, signature

1

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BMW Service

Odometer replaced

Odometer reading,
not total distance covered.

Odometer reading _____

Date, stamp, signature

Odometer replaced

Odometer reading,
not total distance covered.

Odometer reading _____

Date, stamp, signature

General instructions

2

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Maintenance and care

Your vehicle is equipped with a digital electronic engine management system (BMS) and a high-output ignition system.



Warning:

When the engine is running or the ignition is switched on, do not touch electrically live components, terminals or wiring.

– Risk of fatal accident.

Work on the electrical system only when the circuit has been interrupted (switch off ignition and lights). For greater safety, disconnect and insulate the negative battery lead.

If you intend to perform the maintenance and general care work described in the following section yourself, you must possess the necessary knowledge of technical matters and mechanical skills.

Your vehicle is built to high technological standards. Special tools and purpose-designed diagnosis and testing equipment, together with the appropriate knowledge, are needed to keep your vehicle in optimum working order.

General instructions

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Maintenance and care

Your authorised BMW dealer has the necessary technical know-how and specially trained mechanics.

He can guarantee that your vehicle is always maintained in a fault-free technical condition.

Remember: the safety and reliability of your vehicle are the most important considerations.

You should therefore not attempt any complex repair or maintenance tasks.

Keep to the specified Inspection and Service intervals.

BMW refuses to accept liability for damage or consequential damage due to repairs or service work carried out by other than BMW-authorised workshops.

General instructions

Technical modifications

**Warning:**

The data stored in the BMW engine management system (BMS) control unit derive from exhaustive tests and trials. Consequently, manipulation of the BMW engine management system (BMS) control unit invariably means an increased risk to your safety on the road.

**Note:**

Manipulation of the BMW engine management system (BMS) control unit voids the warranty.

Technical modifications are only permitted to a limited extent.

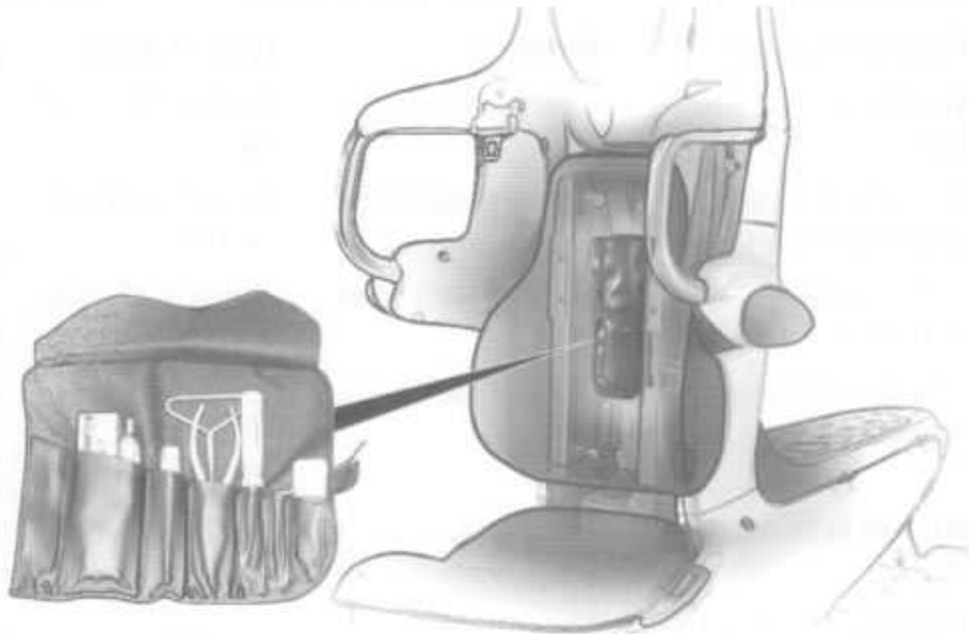
If you are planning such modifications, comply with all the legal requirements. The vehicle must not infringe your national road-vehicle construction and use regulations.

Your authorised BMW dealer will gladly advise you on technical requirements, the manufacturer's recommendations and the overall benefit likely to be obtained.

Genuine BMW parts

For reasons of safety, use only genuine BMW Parts and Accessories.

Genuine BMW parts are identical with those fitted to your BMW C1 as original equipment. BMW AG Motorcycle Division guarantees that materials and workmanship are genuine and free from defects, but cannot accept any liability for spare parts or accessories of outside origin.



Tubeless tyre repair kit

For repair procedure, please refer to the accompanying instructions



Warning:

Only repair tyre damage up to 4 mm (0.16 in) in diameter.

Max. permitted speed:
60 km/h (approx. 37 mile/h).

Max. permitted distance:
400 km (approx. 250 miles).

Always have the damaged tyre replaced.

- The toolkit is stowed behind the seat backrest

Contents

- 1 repair kit
- 1 spark plug wrench
- 1 pair universal pliers
- 1 offset screwdriver T25
- 1 screwdriver, large, reversible blade

Troubleshooting chart

Malfunction: Engine does not start at all or is very difficult to start

2 20 Maintenance and care	Possible cause	Remedy	See ➔ Page
	Wrong ignition key position	Operate correctly	Rider's Manual ➔ 13
	Engine kill switch in wrong position	Operate correctly	Rider's Manual ➔ 66
	Left brake lever not actuated	Actuate left brake lever	Rider's Manual ➔ 67
	Power supply interrupted	Blown fuse	Service and Technical Booklet ➔ 38
	No fuel in tank	Add fuel	Rider's Manual ➔ 32
	Fuel pump not working	Blown fuse 5	Service and Technical Booklet ➔ 38
	Blocked air filter element	Renew	
	Defective spark plug	Renew	
	Spark plug/lead or cap wet	Blow out/dry with compressed air	
	Insufficient battery charge	Recharge battery	Service and Technical Booklet ➔ 41

Troubleshooting chart

Malfunction: BMW C1 does not pull away from rest

Possible cause	Remedy	See → Page
Unfastened seat belt(s)	Operate correctly	Rider's Manual → 64
Stand (easy-lift mechanism) extended	Operate correctly	Rider's Manual → 56
Switch of stand (easy-lift mechanism) defective	Renew	
Stand's overload protection device broken	Renew	Rider's Manual → 56
Drive belt failed	Renew	

Malfunction: Windscreen-wiper motor not running

Possible cause	Remedy	See → Page
Windscreen-wiper motor overheating	Wait for motor to cool down	Thermo-switch tripped



Note:

Have all other problems – if not described on Pages 16 - 50 – rectified by a specialist, preferably an authorised BMW dealer.



Note:

You can obtain further technical information from the following publications:

- Repair Manual
- Electrical Circuit Diagrams

2

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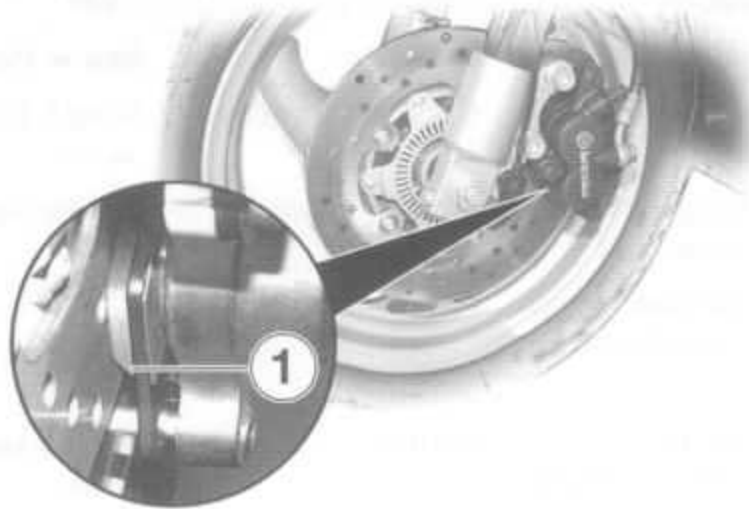
Maintenance and care

Checking brake pads

2

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Maintenance and care



Front brake



Warning:

See the notes on safety in the Rider's Manual, pages 34-35.



Caution:

Renew pads before the minimum permitted thickness is reached.

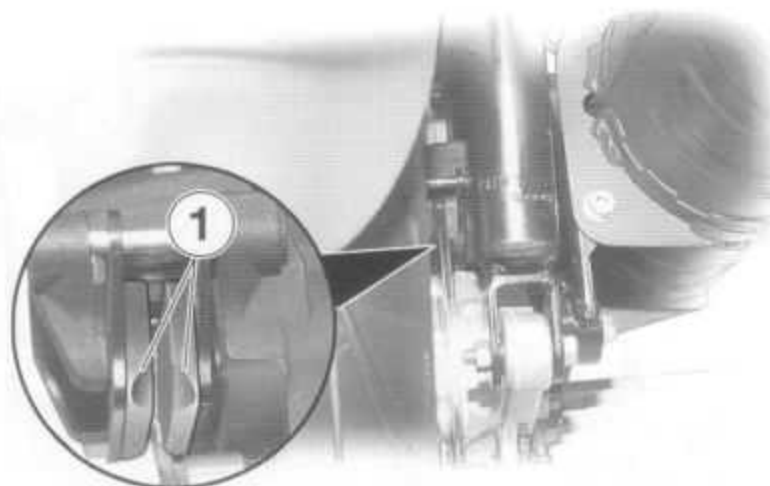


Note:

For your safety, we recommend having the brake system examined and the necessary work performed by an authorised BMW dealer.

- Place the BMW C1 on its stand
 - after making sure that the ground is level and firm
- Inspect from underneath
- Check brake pad thickness
 - **Minimum pad thickness:**
The brake pads have a clearly visible bevel 1 as wear indicator.
- If the wear indicating mark is no longer clearly visible:
Have the brake pads replaced, preferably by an authorised BMW dealer.

Checking brake pads



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Maintenance and care

Rear brake



Warning:

See the notes on safety in the Rider's Manual, pages 34-35.



Caution:

Renew pads before the minimum permitted thickness is reached.



Note:

For your safety, we recommend having work on the brake system performed by an authorised BMW dealer.

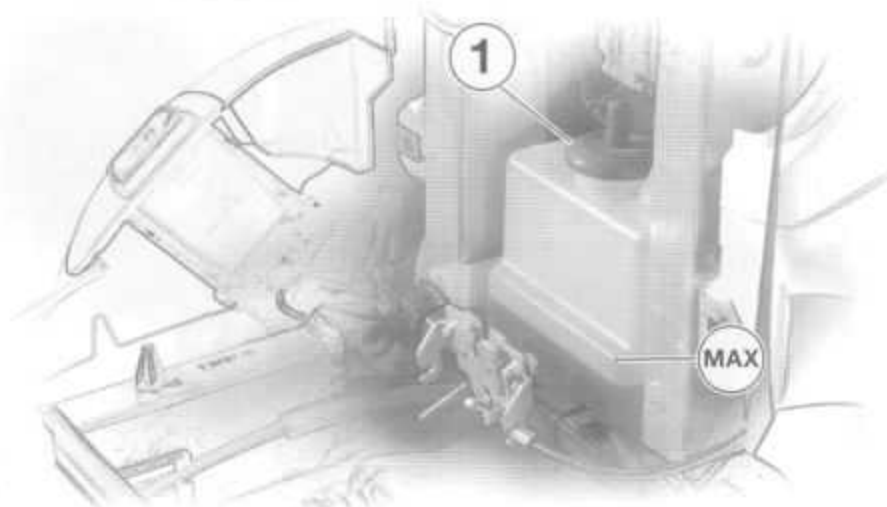
- Place the BMW C1 on its stand
 - after making sure that the ground is level and firm
- Check brake pad thickness
 - **Minimum pad thickness:**
The brake pads have a clearly visible bevel 1 as wear indicator.
- If the wear indicating mark is no longer clearly visible:
Have the brake pads replaced, preferably by an authorised BMW dealer.

Topping up coolant

2

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Maintenance and care



Caution:

Use only nitrite-free antifreeze and corrosion inhibitor. Check coolant level only when the engine is cold. Add more coolant to the expansion tank only if the level has dropped slightly.

Mixing ratio:

- 50% antifreeze
- 50% water

Frost protection down to:
-25 °C

- Place the BMW C1 on its stand
- after making sure that the ground is level and firm
- Open the seat

- Remove the backrest (Rider's Manual, Chapter 2)
- Remove filler cap 1
- Add coolant mixture up to "MAX" mark
- Reinstall filler cap
- Reinstall backrest
- Close and lock the seat

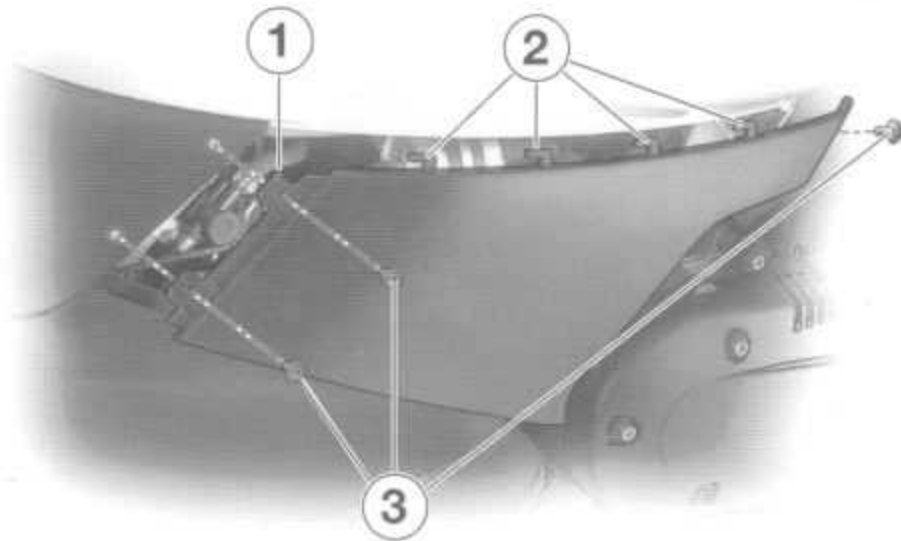


Note:

Have the coolant changed, preferably by an authorised BMW dealer.

() Figure in brackets → page number for description

Side service panel



2

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Maintenance and care

Removing:

- Place the BMW C1 on its stand
 - after making sure that the ground is level and firm
- Loosen the screws **3**
- Push the service panel toward the rear to remove

Installing:

- Engage securing eyes **1** at the front
- Engage upper securing hooks **2**
- Press the service panel forward and down
- Install screws **3**

Changing the spark plug

2

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Maintenance and care



Warning:

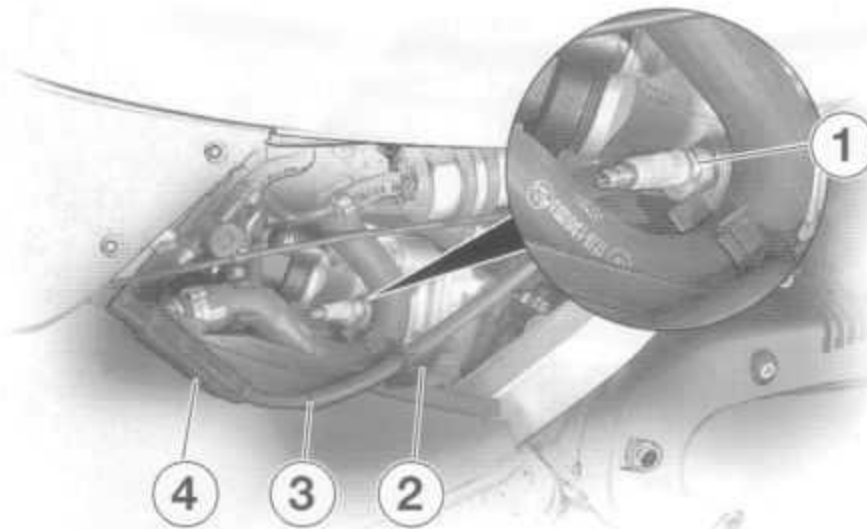
Work on the electrical system only when the circuit has been interrupted (switch off ignition and lights). For greater safety, disconnect and insulate the negative battery lead.

When the engine is running or the ignition is switched on, do not touch electrically live components, terminals or wiring.

– Risk of fatal accident.

Your vehicle is equipped with a digital electronic engine management system (BMS) and a high-output ignition system.

Changing the spark plug



2

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Maintenance and care

- Place the BMW C1 on its stand
- after making sure that the ground is level and firm
- Remove the side service panel (⇒ 25)
- Release ignition cable 3 from clip 2
- Disconnect spark plug cap 4
- Use spark-plug wrench to remove spark plug 1
- Install new spark plug (type ⇒ 58)
- Tighten spark plug 1 to specified torque
- Press on spark plug cap 4 and make sure it engages with an audible click
- Locate ignition lead 3 in clip 2
- Install side service panel (⇒ 25)

() Figure in brackets ⇒ page number for description



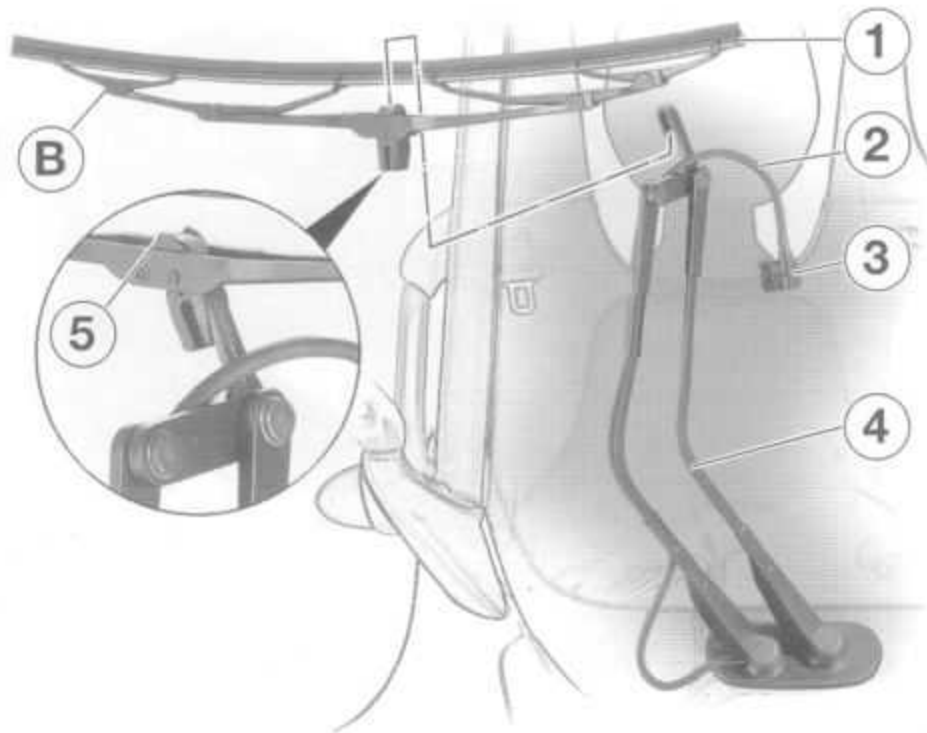
! Tightening torque:
Spark plug..... 15±2 Nm

Replacing the wiper blade

2

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Maintenance and care



Note:

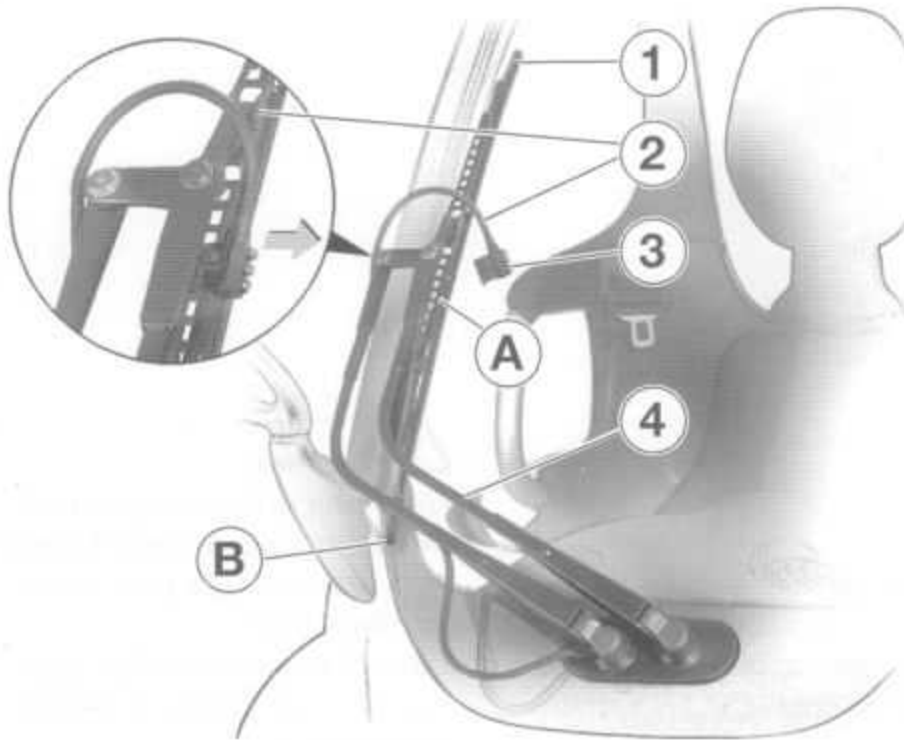
Wiper blade **1** is asymmetric.

Replacing the wiper blade

- Place the BMW C1 on its stand
 - after making sure that the ground is level and firm
- Remove spray nozzle **3** from wiper blade **1**

- Swing wiper arm **4** clear of windscreen
- Hold wiper blade **1** at a right angle to wiper arm **4** and release it from latch **5** by pushing it toward the wiper arm
- Disengage wiper blade **1** and lift it up to remove
- Insert new wiper blade **1** and make sure it engages with an audible click
 - Make sure that long section **B** of wiper blade is toward the right

Replacing the wiper blade



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Maintenance and care



Note:

Wiper blade **1** is asymmetric.

- Swing wiper arm **4** clear of windscreen
 - Check that long section **B** of wiper arm **1** is at the bottom
- Install the spray nozzle in the fourth hole **A** of wiper blade **1**
 - Make sure that water hose **2** is routed over wiper blade **1**.

Notes on replacing bulbs

2

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Maintenance and care

Your vehicle is equipped with a digital electronic engine management system (BMS) and a high-output ignition system.



Warning:

Work on the electrical system only when the circuit has been interrupted (switch off ignition and lights). For greater safety, disconnect and insulate the negative battery lead.

When the engine is running or the ignition is switched on, do not touch electrically live components, terminals or wiring.

– Risk of fatal accident.



Caution:

Your vehicle has a high-beam/low-beam bulb, a parking-light bulb, a brake-light bulb and a rear-light bulb.

If any of these bulbs fail, you may have problems in seeing and being seen.

You should therefore always carry spare bulbs on the vehicle.

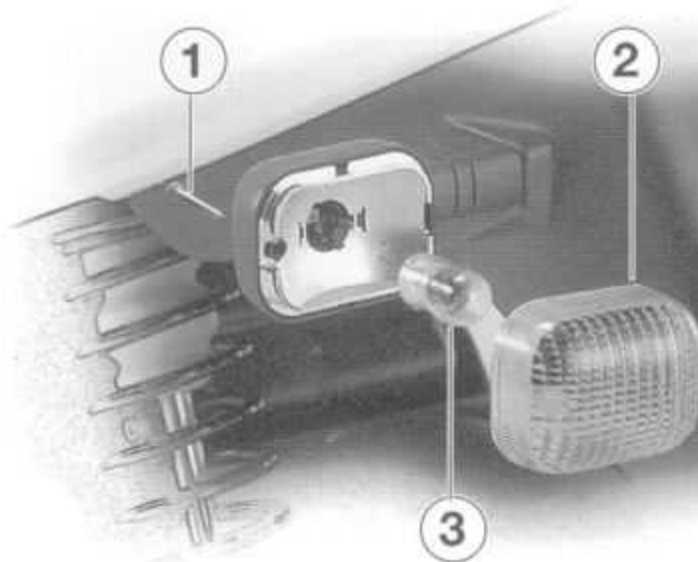


Note:

Do not touch new bulbs with your fingers.

Use a clean, dry cloth to hold the bulbs when inserting them. Dirt deposits, in particular oil and grease, interfere with heat radiation from the bulb. This leads to overheating and shortens the bulb's operating life.

Changing bulbs



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Maintenance and care

Flashing turn indicator rear



Caution:

Switch off the ignition before changing a bulb.



Note:

Do not touch the glass of new bulbs with your fingers. Use a clean, dry cloth to hold the bulbs when inserting them.

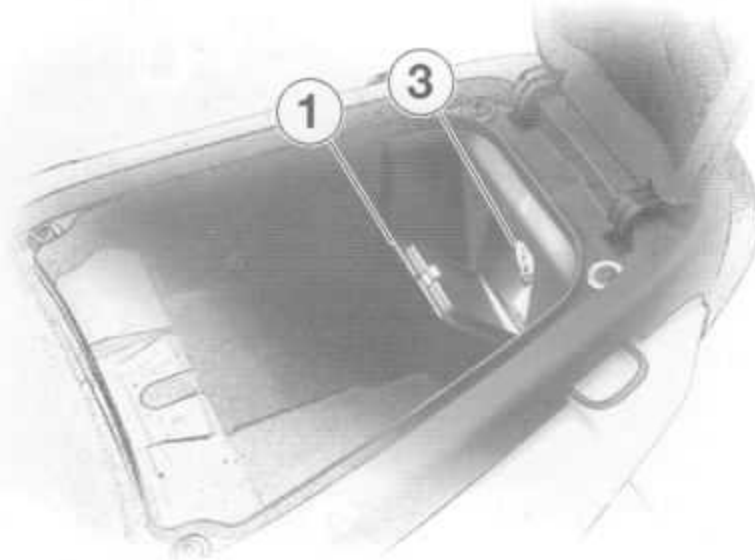
- Place the BMW C1 on its stand
 - after making sure that the ground is level and firm
- Take out retaining screw 1
- Take off turn indicator glass 2
- Press bulb 3 in and turn it counter-clockwise to disengage it from the socket.
- Take out bulb 3
- Installation is the reverse of the removal procedure
 - Rear turn indicator bulbs:
12 V 10 W

Changing bulbs

2

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Maintenance and care



Rear/brake light



Caution:

Switch off the ignition before changing a bulb.

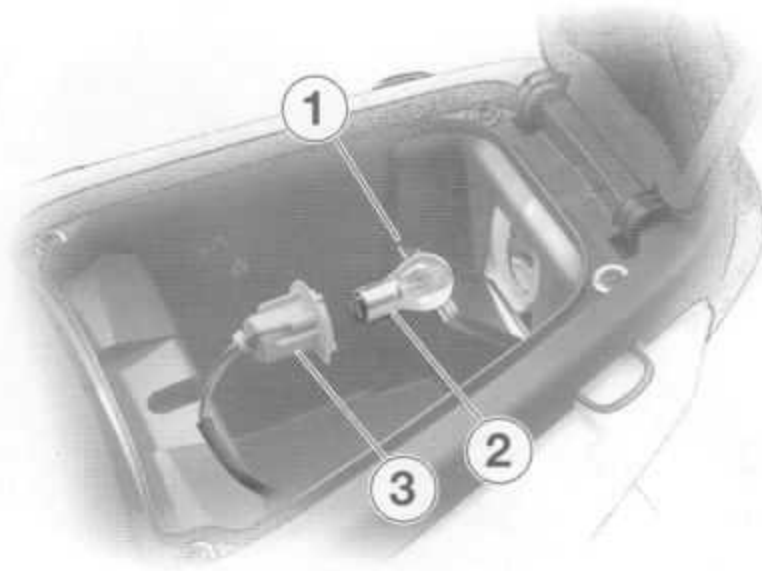


Note:

Do not touch the glass of new bulbs with your fingers. Use a clean, dry cloth to hold the bulbs when inserting them.

- Place the BMW C1 on its stand
 - after making sure that the ground is level and firm
- Open the stowage compartment
- Remove cover **1**
- Turn bulb holder **3** counter-clockwise to remove

Changing bulbs



2

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Maintenance and care

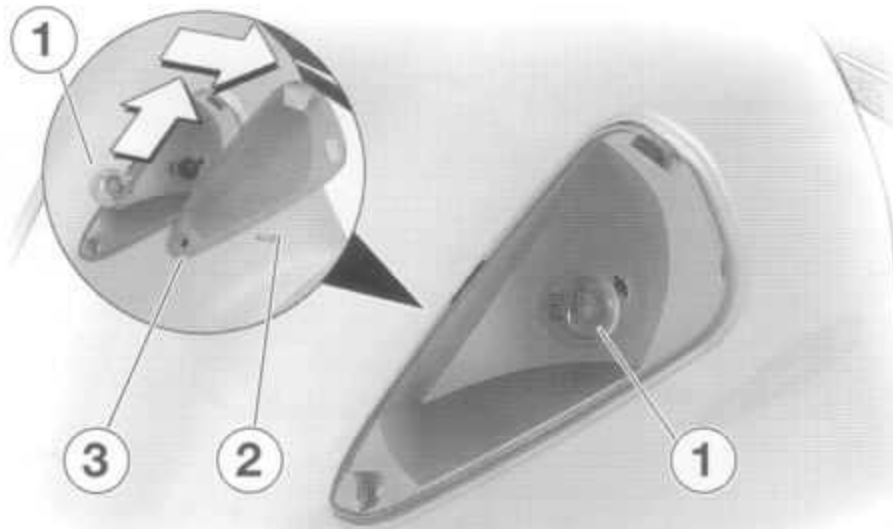
- Remove bulb **2** by pressing it in and turning it counter-clockwise at the same time.
- Take out bulb **2**
- Installation is the reverse of the removal procedure
- Brake/rear light bulb:
12 V 21/5 W

Changing bulbs

2

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Maintenance and care



Flashing turn indicator front



Caution:

Switch off the ignition before changing a bulb.

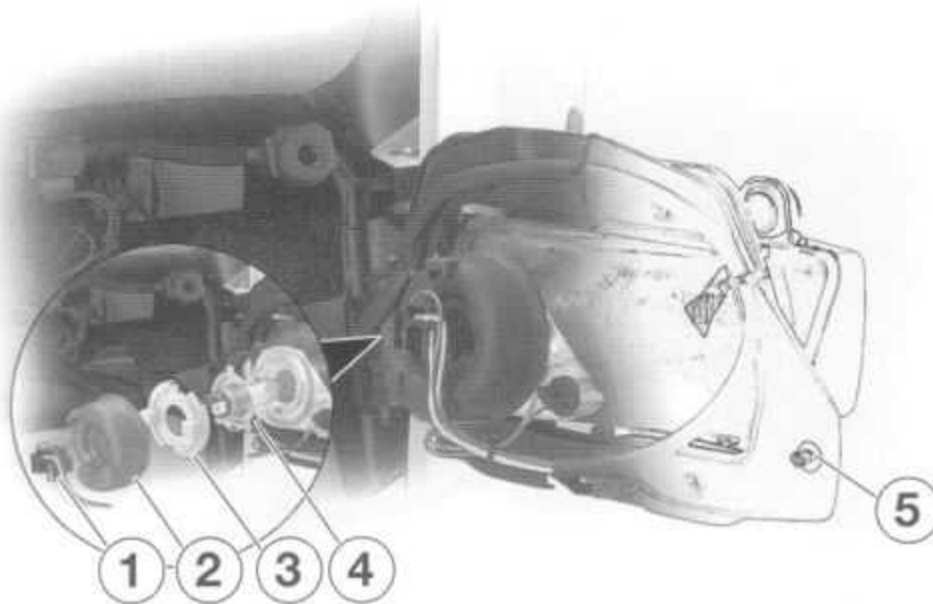


Note:

Do not touch the glass of new bulbs with your fingers. Use a clean, dry cloth to hold the bulbs when inserting them.

- Place the BMW C1 on its stand, after making sure that the ground is level and firm
 - Take out retaining screw **2**
 - Take off turn indicator glass **3**
 - Press bulb **1** back and turn it counter-clockwise to disengage it from the socket.
 - Take out bulb **1**
 - Installation is the reverse of the removal procedure
- Front turn indicator bulbs:
12 V 21 W

Changing bulbs



2

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Maintenance and care

High and low beam headlights



Caution:

Switch off the ignition before changing a bulb.



Note:

Do not touch the glass of new bulbs with your fingers. Use a clean, dry cloth to hold the bulbs when inserting them.

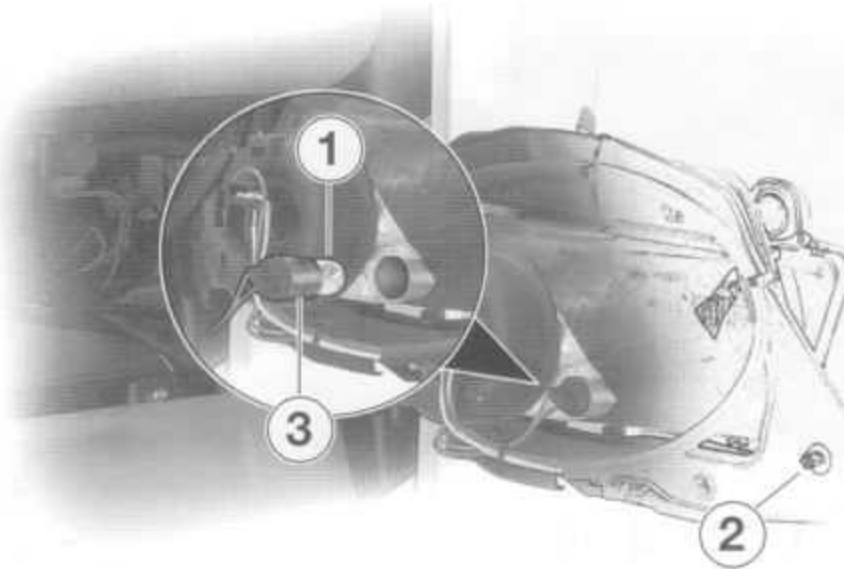
- Place the BMW C1 on its stand
 - after making sure that the ground is level and firm
- Remove front fairing panel
- Open quick-release fastener **5** by turning it counter-clockwise and swing the headlight forward
- Pull connector **1** off H4 bulb **4**
- Remove rubber cap **2**
- Turn retaining ring **3** counter-clockwise to disengage
- Remove H4 bulb **4**
- Installation is the reverse of the removal procedure
 - Low beam/high beam:
H4 12 V 55/60 W

Changing bulbs

2

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Maintenance and care



Parking light



Caution:

Switch off the ignition before changing a bulb.

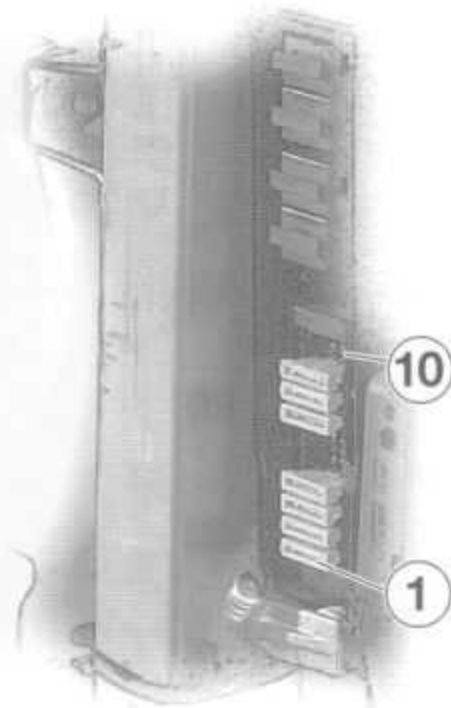


Note:

Do not touch the glass of new bulbs with your fingers. Use a clean, dry cloth to hold the bulbs when inserting them.

- Place the BMW C1 on its stand
- after making sure that the ground is level and firm
- Remove front fairing panel
- Open quick-release fastener **2** by turning it counter-clockwise and swing the headlight forward
- Pull bulb holder **3** out of the headlight housing
- Remove bulb **1** from its socket
- Installation is the reverse of the removal procedure
- Parking light: **12 V 5 W**

Equipment connected to fuses



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Maintenance and care

Equipment connected to fuses

- 1 Instrument cluster, brake light.....4 amps
- 2 Parking light, tail light4 amps
- 3 Horn15 amps
- 4 BMW engine management system (BMS).....15 amps
- 5 Not used
- 6 Not used
- 7 Wiper and washer system.....15 amps
- 8 Accessories*.....4 amps
- 9 ABS*4 amps
- 10 Not used

* Optional extra



Note:

Fuse allocation diagram, see adhesive label inside cover of central electrics.



Note:

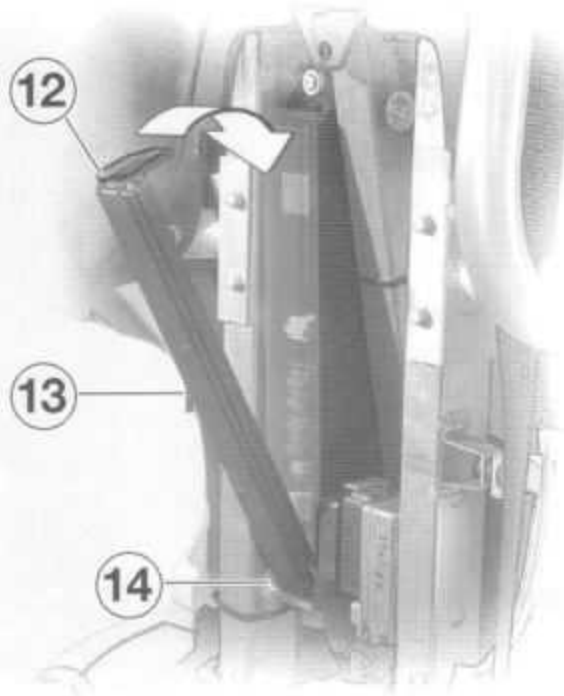
If a fuse blows repeatedly have the electrical system checked, preferably by an authorised BMW dealer.

Renewing fuses

2

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Maintenance and care



Caution:

Before changing a fuse, switch the ignition off.

Always install replacement fuses, never attempt to repair a blown fuse – risk of fire.

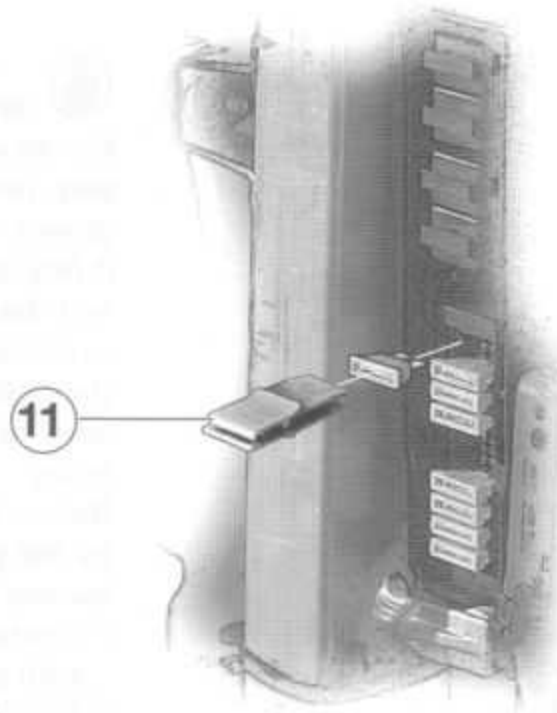
For this reason, always carry a number of spare fuses on the vehicle.

Use only fuses of the specified rating and pattern.

Renewing fuses

- Place the BMW C1 on its stand
 - after making sure that the ground is level and firm
- Open the seat
- Remove the backrest (Rider's Manual, Chapter 2)
- Press clamp **12** on cover of central electrics down and disengage
- Remove cover **13**

Renewing fuses



2

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Maintenance and care

- Use the tweezers **11** stowed inside the fuse box to pull the blown fuse out of its holder
- Install a new fuse of the correct amperage (→ 37)
- Introduce the lugs **14** into their recesses
- Close the cover **13** of the central electrical equipment box
- Reinstall backrest
- Close and lock the seat

() Figure in brackets → page number for description



Note:

If a fuse blows repeatedly have the electrical system checked, preferably by an authorised BMW dealer.

Battery safety instructions

2

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Maintenance and care



Warning:

Battery acid is highly caustic. It must not contact the eyes, face, hands, clothing or the vehicle's paintwork.

KEEP IT OUT OF REACH OF CHILDREN.

Never create sparks or bring a naked flame or a glowing cigarette near the battery. Batteries generate explosive gases.

Charge batteries only in well-ventilated areas. The cell plugs must be opened when recharging the battery.



Warning:

For all work involving the battery, protective goggles and gloves must be worn.

If anyone comes into contact with battery acid or is exposed to toxic fumes from the battery, have them examined by a physician without delay.

Before the victim can be seen by the physician, take the following first aid measures:

- Contact with skin: wash off with plenty of clean water.
- Acid swallowed: victim must drink plenty of water or milk (into which a raw egg should be stirred). Do not cause the victim to vomit.
- Eyes attacked by battery acid or fumes from battery: Rinse the eyes out several times with plenty of clean water. The eyelid should be held open while doing so.
- Rinse battery acid off clothing immediately, then remove the clothing and place it in water.

Battery maintenance instructions

2

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Maintenance and care

If the vehicle is to be out of use for a lengthy period:

- Check battery acid level
- Store the battery in a cool, dry place
- Recharge the battery at intervals during the storage period
- Always charge the battery before laying up the vehicle out of use, and again when restoring it to the road – note charging instructions
- In case of doubt ask a specialist, preferably an authorised BMW dealer, to prepare the vehicle for laying up and to carry out the necessary battery maintenance and storage



Caution:

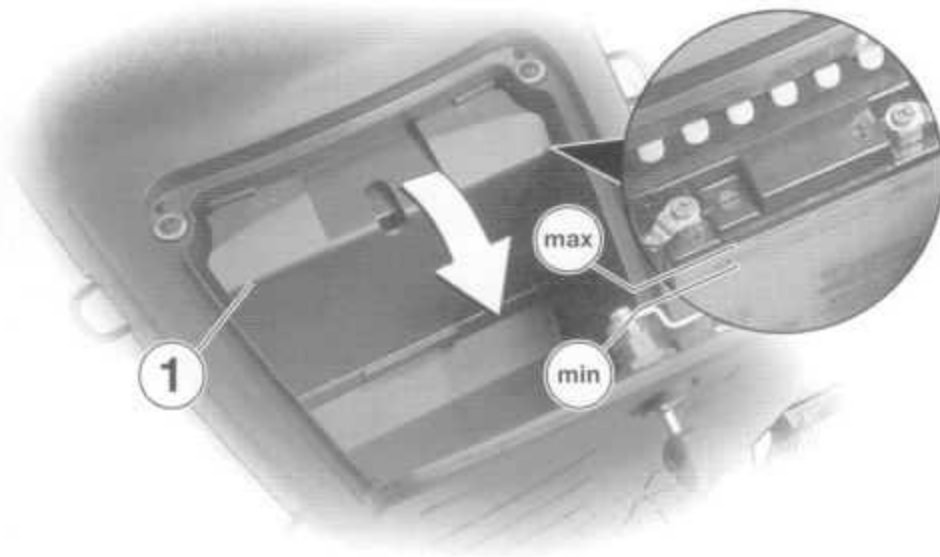
Correct maintenance, recharging and storage will prolong the life of the battery and are essential if warranty claims are to be considered.

Battery

2

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Maintenance and care



Checking battery acid level

– Check the acid level regularly

- Place the BMW C1 on its stand
- after making sure that the ground is level and firm
- Open the stowage compartment
- Disengage cover **1** by pressing down and simultaneously pulling toward the rear and remove
- Read off the acid level at the MIN/MAX marks



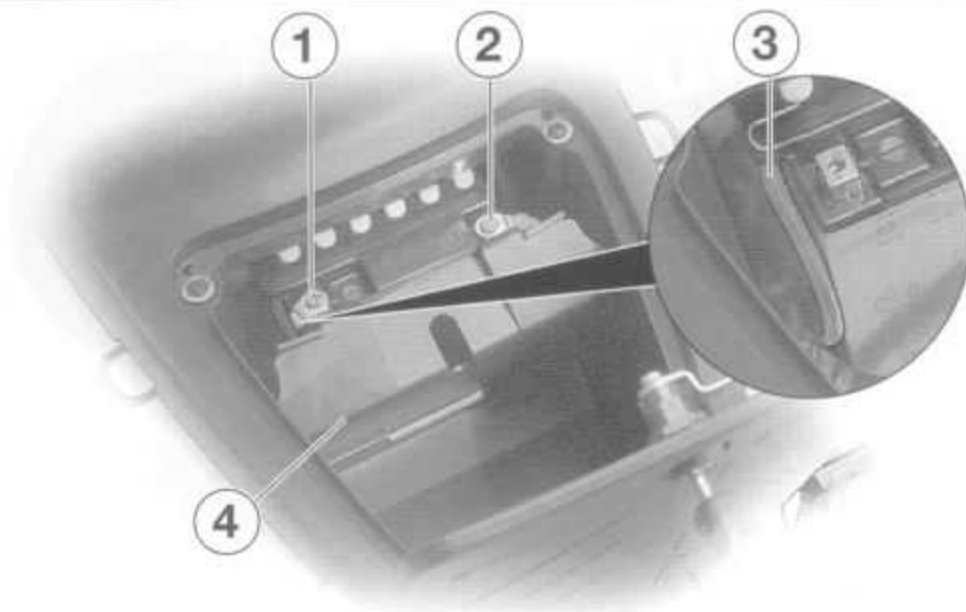
Note:

Top up only with distilled water, not acid.

Use a suitable coin to unscrew and tighten the cell plugs.

- Top up with distilled water as far as the MAX mark
- Install cover **1**
- Make sure the cover is securely seated
- Close the stowage compartment

Battery



2

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Maintenance and care

Removing the battery



Warning:

Do not damage cables and breather hose when removing. Before disconnecting the battery, switch off the ignition. To avoid short-circuits:

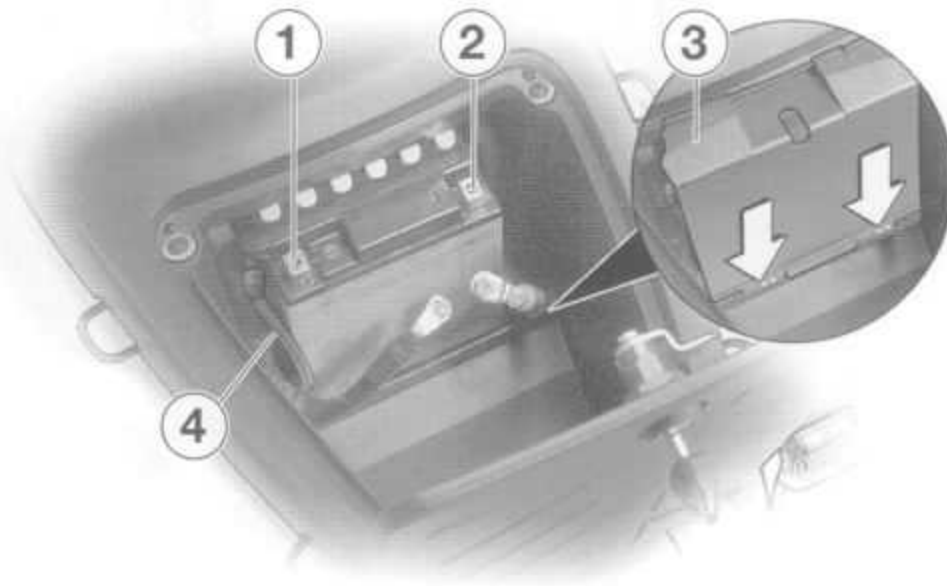
- Begin by disconnecting negative battery lead (-) 1
 - then the positive battery lead (+) 2.
- Place the BMW C1 on its stand
 - after making sure that the ground is level and firm
 - Open the stowage compartment
 - Disengage cover 4 by pressing down and simultaneously pulling toward the rear and remove
 - Disconnect battery breather hose 3
 - Disconnect the battery **negative** lead 1
 - Disconnect the battery **positive** lead 2
 - Lift the battery toward the rear to remove

Battery

2

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Maintenance and care



Installing the battery



Warning:

Before connecting the battery, switch off the ignition. To avoid short-circuits:

- Reconnect positive battery lead (+) 2 first,
- then negative battery lead (-) 1.



Note:

Disconnecting the battery deletes the trip-meter reading and the clock setting.

- Set the clock

- Grease the battery posts
- Install the battery
- Reconnect breather hose 4
 - Make sure that the battery breather hose is not kinked or blocked.
- Reconnect battery positive lead (+) 2
- Reconnect battery negative lead (-) 1
- Reinstall cover 3
- Make sure the cover is securely seated
- Close the stowage compartment

Cleaning/care



2

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Maintenance and care



Note:

Regular cleaning, using the correct methods, is an important factor in maintaining the value of your vehicle. It also ensures that safety-relevant parts remain in full working order.



Caution:

Avoid damage to rubber, plastic parts and safety belts caused by aggressive or penetrating cleaning agents or solvents. Do not use a steam jet or high-pressure cleaning equipment. High water pressure can damage seals, the hydraulic brake system or the complete electrical system.

Cleaning/care

2

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Maintenance and care



Washing the vehicle

- Place the BMW C1 on its stand
 - after making sure that the ground is level and firm
- Clean the wheels and drive unit with a mild detergent
 - Clean in accordance with the manufacturer's instructions.
- Dry all wet areas thoroughly
- Clean/treat fairing elements only with cleaning and care products from the BMW Cleaning and Care Set

- Do not clean the instrument cluster and switches with solvents or cleansers
- Remove tar splashes only with an approved product – rinse thoroughly with water afterwards.
- Clean flies and other insects off the fork stanchions
- Treat painted and chromed parts regularly with suitable care products



Warning:

After cleaning and before starting a journey, always test the brakes.



Cleaning the seat belts

**Warning:**

When cleaning, make sure that cleansing agent does not penetrate the belt buckles.

- Foreign matter on the belts hampers the inertia reels and thus impairs safety
- Use only a mild soap and water solution to clean the seat belts when installed: do not use chemicals as they could damage the webbing
- Roll the seat belts onto the reels only when dry

Removing road salt

- Wash the vehicle down immediately with cold water at the end of the journey.

**Note:**

Do not use warm water – warm water aggravates the effect of the salt.

- Dry the vehicle thoroughly
- Coat/polish fairing elements after cleaning and drying with a recommended wax

Cleaning/care

2

48

Maintenance and care



Rectifying paint damage

- Minor damage caused by stones striking the painted surface can be touched in with a BMW paint pencil of the correct colour



Caution:

Comply with all applicable work instructions and safety precautions.



Note:

The vehicle's paint colour is stated on a label under the seat. Have more extensive damaged repaired by a specialist, preferably an authorised BMW dealer.

Care of exhaust silencer

- Changes in the appearance of the exhaust system during operation or as a result of environmental influences can be treated with "Metal Polish" from the Autosol company, BMW order No. 82 14 9 400 890

Laying up out of use



2

49

Maintenance and care



Note:

Before laying the vehicle up out of use have the engine oil and the oil filter element changed, preferably by an authorised BMW dealer. Do not restart the engine after this work has been completed.

Work needed in conjunction with laying up or restoring to use can often be combined with the Service or Inspection work. Have this work performed by a specialist, preferably an authorised BMW dealer

Laying up out of use

- Clean the vehicle (➔ 46-48)
- Remove the battery (➔ 43), complying with the maintenance instructions (➔ 41)
- Coat bright metal/chrome-plated parts with an acid-free grease (e.g. Vaseline)
- Place the vehicle on its stand in a dry place
- Support the vehicle in such a way that both wheels are clear of the ground

() Figure in brackets ➔ page number for description

Restoring to use

2

50

Maintenance and care



Restoring to use

- If necessary, remove protective wax coating
- Clean the vehicle (⇒ 46)
- Install a charged battery (⇒ 44)
- Apply the correct grease to the battery terminals

- Run all safety checks (Rider's Manual ⇒ 28-49)
- Check brakes (Rider's Manual ⇒ 34-37)
- Check tyre pressures, adjust if necessary (Rider's Manual ⇒ 46-47)

() Figure in brackets ⇒ page number for description

Engine

Type	Liquid-cooled, single-cylinder, four-stroke engine with four push-rod-actuated valves, 2 overhead camshafts and sump lubrication
Displacement	125 cc
Max. output acc. to DIN 70 020	
	11kW/15 bhp
- at engine speed	9,250 rpm
Max. torque	12 Nm
- at engine speed	6,500 rpm
Permissible engine speeds	
maximum	10,400 rpm
idle speed	1,900 rpm
Bore/stroke	0.89
Compression ratio	13.0 : 1
Fuel grade	Super (premium) unleaded fuel, Minimum octane rating 95 (RON) and 85 (MON) for catalytic converter.
Fuel tank capacity (usable)	9.7 l (2.13 Imp. gal) including 2.5 litres (0.55 Imp. gal) reserve
Fuel consumption acc. to ISO 7118	
- at steady 90 km/h (56 mile/h)	2.9 l/100 km (97.41 mile/Imp. gallon)

3

51

Technical data

Transmission

Automatic gearbox

Ratios	3.0 - 0.9
--------	-----------

3

52

Power transmission from automatic gearbox to rear wheel drive

Belt

Final drive

Transmission ratio of rear wheel drive	8.96
--	------

Technical data

Frame and suspension

Frame	Central frame made of extruded aluminium sections and die-cast components; roof frame and shoulder bars bolted; engine carried on vibration-damping mounts in frame.
Position of type plate	Riveted to frame beneath seat.
Position of vehicle identification number	Beneath seat
Front brake	Hydraulically actuated fixed single-disc brake with 2-piston floating caliper.
Rear brake	Hydraulically actuated fixed single-disc brake with single-piston floating caliper.

3

53

Technical data

Frame and suspension

3

54

Technical data

Suspension

Front

Telelever system with aluminium leading link, central spring strut and kinematic spring and damper progression, anti-dive control, compensating link

Spring element

Spring strut with coil spring and single-tube gas-filled damper

Total travel

75 mm (3.0 in)

Fixed tube diameter

32 mm (1.3 in)

Rear

Swinging arm with drive (TSS), with ball-mounted vibration damping and stepless variator

Spring element

Spring struts with coil springs and single-tube gas-filled dampers

Total travel (at wheel)

85 mm (3.4 in)

Swinging fork length

430 mm (16.9 in)

Steering lock angle

38°

Front wheel castor

in normal-load position
(with rider)

113 mm (4.45 in)

Frame and suspension

Wheels and tyres

Tubeless radial tyres

Front wheel

Size and designation

3.5" J x13 MT-H2

Tyre size and designation

120/70-R13

53 L

53 L

Rear wheel

Size and designation

3.5" J x12 MT-H2

Tyre size and designation

140/70-R12

60 L

65 L

Tyre pressures (with tyres cold)

Solo

Front

1.9 bar

27.6 p.s.i.

rear

2.1 bar

30.5 p.s.i.

Full load

Front

1.9 bar

27.6 p.s.i.

rear

2.4 bar

34.8 p.s.i.

Recommended minimum tyre tread depth

Front wheel

2 mm (0.08 in)

Rear wheel

3 mm (0.12 in)



Warning:

Comply with legal requirements concerning the minimum permissible tyre tread depth.

3

55

Technical data

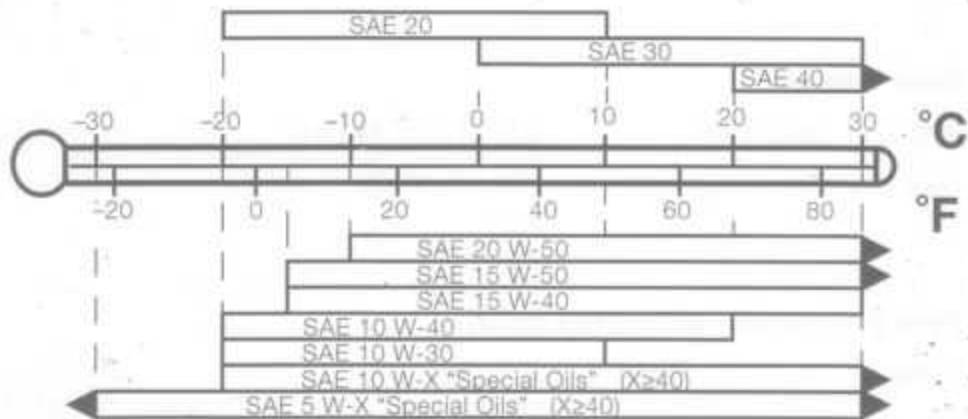
Fuels and lubricants

Engine oil

Brand-name HD oil, API classification SF, SG or SH;
the suffixes CD or CE are permitted; or
brand-name HD oil of CCMC classification G4 or G5;
the suffix PD2 is permitted.

3
56

Technical data





The viscosity class depends on outside temperatures. Temperatures above or below the limits quoted for the individual SAE classifications are permitted for brief periods only. Special Oils are approved individually by BMW AG and available from your authorised BMW dealer. All engine oils supplied by BMW are subjected to regular BMW quality assurance checks. BMW does not approve the use of any upper-cylinder lubricants or similar oil additives.

Engine oil capacity

if filter is renewed 1.0 l (1.76 Imp. pint)

Maximum oil consumption 0.1 l/1,000 km
(0.141 Imp. pint/500 miles)

Fuels and lubricants

Telescopic fork oil approved grades	BMW Telescopic Fork Oil
Capacity	0.25 l (0.44 Imp. pint)
Battery terminal corrosion protection	Acid-free grease, e.g. Vaseline
Bearings and other lubrication points	Brand-name anti-friction bearing grease, usable temperature range -30°C...+140°C, drip point 150°C...230°C, high level of corro- sion protection; e.g. Shell Retinax A
Brake fluid	Veedol Disc Brake Fluid DOT 4, Shell Brake Fluid DOT 4, ITT AE Original-ATE SL DOT 4,
	 Caution: Use only new brake fluid to DOT 4 specification.
Engine coolant	Brand-name long-life antifreeze and corrosion inhibitor
	 Caution: Use only nitrite-free antifreeze and corrosion inhibitor.
Quantity	1.45 l (2.55 Imp. pint) (0.2 l/0.35 Imp. pint in expansion tank)

3

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Technical data

Electrical system

3

58

Technical data

Spark plug

Approved makes/types	NGK CR 8EB
Electrode gap	0.7 mm (0.02 in)
Wear limit	0.8 mm (0.03 in)

Fuses

"Minifuse"
flat-socket fuses

Load ratings	4 A and 15 A
--------------	--------------

Headlight

Halogen-bulb, rectangular

Bulbs

High/low beam	H4 halogen bulb, 12 V 60/55 W
Parking light	12 V 5 W
Rear light	
Brake/rear light	12 V 21/5 W
Flashing turn indicators	12 V 10 W rear 12 V 21 W front
Other warning/telltale lights and instrument lighting	12 V 1.7 W

Dimensions and weights

Overall length	2,075 mm (81.7 in)
Width	
- across mirrors	1,026 mm (40.4 in)
- across side crash elements	850 mm (33.5 in)
- across handlebars	650 ± 0.1 mm (25.6 ± 0.004 in)
Overall height	1,766 mm (69.5 in)
Seat height, unladen	701 mm (27.6 in)
Wheelbase	
- in normal-load position	1,488 mm (58.6 in)
Ground clearance	
- at unladen weight	approx. 100 mm (3.9 in)
Unladen weight	
(ready to ride, tank full)	185 kg (408 lbs)
Gross weight limit	360 kg (794 lbs)
Permissible wheel loads	
front	120 kg (265 lbs)
rear	240 kg (529 lbs)

3

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Technical data

Performance data

3

60

Technical data

Top speed

acc. to type approval test 102 km/h (63 mile/h)

Power-weight ratio

ready for road, with rider 24 kg/kW (52 lbs/kW)

at gross weight limit 33 kg/kW (72 lbs/kW)

Acceleration

0-50 km/h (0-32 mile/h) 6 s

Ride-past noise level

acc. to 78/1015/EU mod. 77 dB (A)

Stationary noise level

acc. to 78/1015/EU mod. 87 dB (A)

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Vehicle data

Model

Frame No.

Colour No.

First registered on

Licence plate No.

Dealer data

Person to contact for Service work

Ms./Mr.

Tel. No.

Dealer's address with telephone No. (company stamp)

Details described or illustrated in this booklet may differ from the vehicle's actual specification as purchased, the accessories fitted or the national-market specification. No claims will be entertained as a result of such discrepancies. Dimensions, weights, fuel consumption and performance data are quoted to the customary tolerances.

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