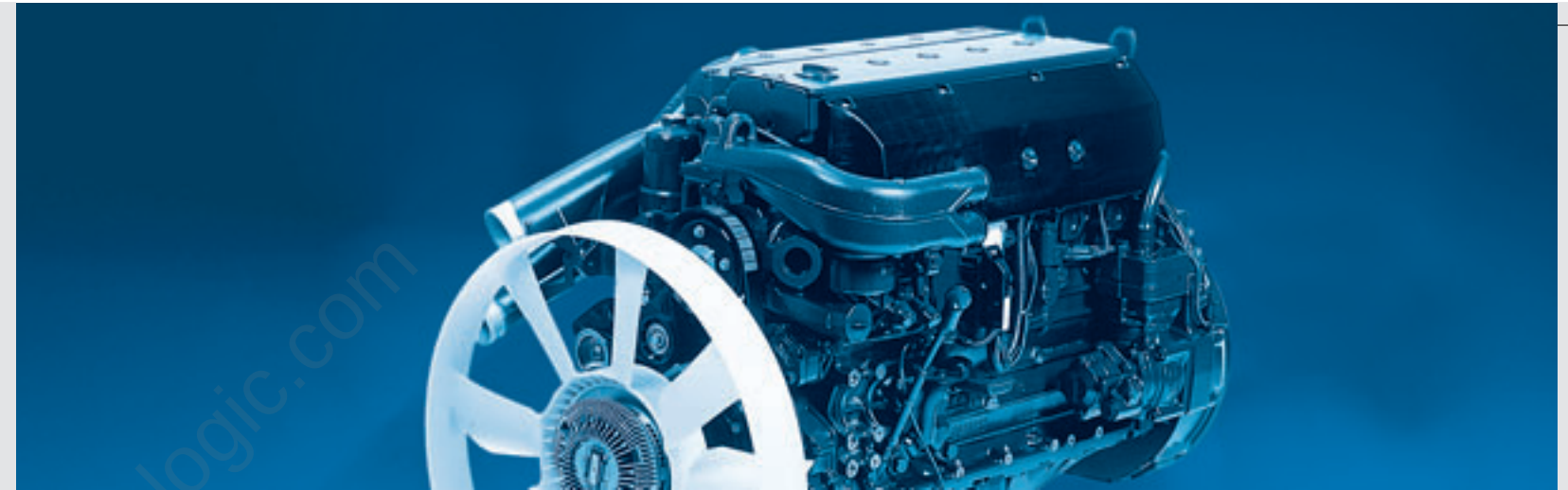




OM 904 LA - OM 906 LA - OM 924 LA - OM 926 LA Operating Instructions



Mercedes-Benz

## The aim of these Operating Instructions

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These Operating Instructions are intended to assist you in all situations with your new engine. Each section has a list of contents to help you find the information you require quickly:

**2 At a glance**

This section gives you an overview of the layout of important components in the engine.

**3 Before commissioning**

This contains the basic information you require for initial operation. If this is your first Mercedes-Benz engine, you should read this section first.

**4 Safety**

This section contains important aspects with regard to safety when handling Mercedes-Benz 900 series engines.

**5 Operation**

Here you will find all the information you will need when you are operating the engine.

**6 Maintenance**

This is where you will find more detailed information about maintenance work.

**7 Practical advice**

Here you will find practical help for possible problems.

**8 Technical data**

All the important technical data for the engine is listed here.

**9 Glossary and index**

The glossary of technical terms explains the most important technical concepts.

The index is intended to help you find information quickly.

The engine documentation comprises the following:

- these Operating Instructions
- the Maintenance Booklet
- Specifications for Service Products

You may receive additional supplements depending on the equipment.

## Refuelling

Use summer or winter fuel depending on the season. See also "Diesel fuels" (▷ page 60).



Make sure that utmost cleanliness is observed while refuelling and that no water is allowed to enter the tank.

## Bleeding the fuel system

The fuel system is bled when the engine is started after refuelling if the fuel system was previously allowed to run dry. Continuous bleeding takes place automatically in the filter.



To ensure that the fuel system can be bled, the battery must have enough charge when the engine is started.

## Checking the batteries

### Risk of burning



The acid contained in batteries burns skin and eyes on contact.

- Do not allow acid to come into contact with your skin, eyes or clothing.
- Wear suitable protective clothing, as battery acid can burn through normal clothing. In addition, protective gloves and safety goggles should be worn.
- Rinse acid splashes off immediately with clean water and consult a doctor if necessary.

### Risk of explosion



Gases escaping from batteries can explode and injure people.

Therefore, do not allow fire, naked flames, smoking or the creation of sparks in the vicinity of batteries.

Only use batteries which are completely filled and have been perfectly maintained. Grease the battery terminals with acid-proof grease (terminal grease).



The cable cross-sections are dependent on the distance between the battery and the starter motor.

### Adjusting the valve clearance

| Engine          | Crankshaft position        | Cylinder/ valves to be adjusted |   |   |       |   |       |
|-----------------|----------------------------|---------------------------------|---|---|-------|---|-------|
|                 |                            | 1                               | 2 | 3 | 4     | 5 | 6     |
| OM 904 / 924 LA | 4th cylinder valve overlap | I / E                           | I | E | -     |   |       |
|                 | 1st cylinder valve overlap | -                               | E | I | I / E |   |       |
| OM 906 / 926 LA | 6th cylinder valve overlap | I / E                           | I | E | I     | E | -     |
|                 | 1st cylinder valve overlap | -                               | E | I | E     | I | I / E |

I – inlet valve

E – exhaust valve

Adjust all valve clearances in 2 crankshaft positions.

- Use the rotation device to turn the crankshaft until no. 4 or 6 cylinder is at overlap TDC (no. 1 cylinder at ignition TDC). Then turn no. 1 cylinder to overlap TDC (no. 4 or 6 cylinder at ignition TDC).
- Check the valves in accordance with the above table and adjust.

## Draining coolant

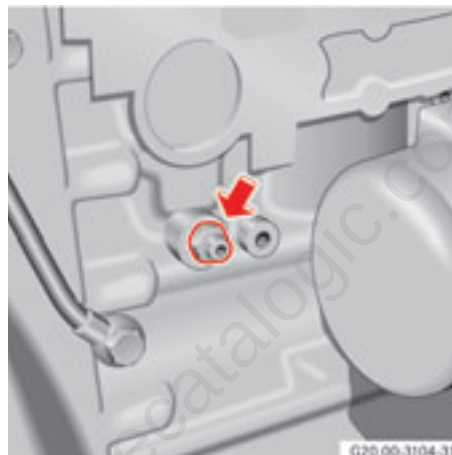
### Risk of scalding



Hot coolant will scald your skin and eyes.

- Only carry out work on the cooling system at coolant temperatures below 50 °C.
- Wear suitable protective gloves, protective clothing and safety goggles when handling coolant.

- ▶ Open the engine cooling system radiator cap slowly. Let off excess pressure and remove the radiator cap.
- ▶ On heating systems: Open the heating temperature selector (regulating valve).



### Coolant drain plug

- ▶ Place the drain hose on the coolant drain plug on the engine (arrow).
- ▶ Loosen the drain plug (1 to 2 turns)  
The coolant flows out.

### 1

There are additional drain plugs on the radiator.

### 1

First cover the lines, etc. beneath the drain plugs and place a receptacle suitable for the volume of coolant.

## Full Version Available

### Mercedes-Benz OM 904 LA and OM 906 LA Engine Operator Manual

Mercedes-Benz OM 904 LA, OM 906 LA engine operator manual, covering safe operation, daily checks and care. 6 PDF files. Instant PDF download.

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