

TECHNICAL DATA

0

1

THREADED CONNECTIONS

2

FLUIDS, OIL AND LUBRICANTS

3

MAINTENANCE SCHEDULE

4

EXPLANATORY NOTES ON THE MAINTENANCE ACTIVITIES

5

Intermediate inspection

This is the intermediate inspection symbol.

Intermediate inspections are based on several visual inspections.

When an extended changing interval is applicable to the engine oil (X-service), an intermediate inspection should be carried out.

Intermediate inspection



G000088

X-service

This is the symbol for an X-service.

An X-service is a mileage-dependent maintenance check which consists of changing the engine oil plus a number of visual inspections.

Note:

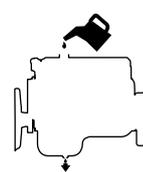
If the prescribed oil specification and additional conditions (see specification manual "Fluids and lubricants") are met, an extended changing interval (X-service) may be applied.

An X service should be carried out at least once every year.

X service



+



G000086

Y-service

This is the symbol for a Y-service.

A Y-service is an annual maintenance check consisting of several maintenance activities plus changing of the gearbox and rear axle oil.

Note:

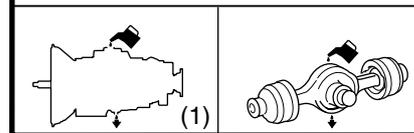
If the prescribed oil specification (see specification manual "Fluids and lubricants") has been met, an extended changing interval may be applied.

Y service

1x per YEAR



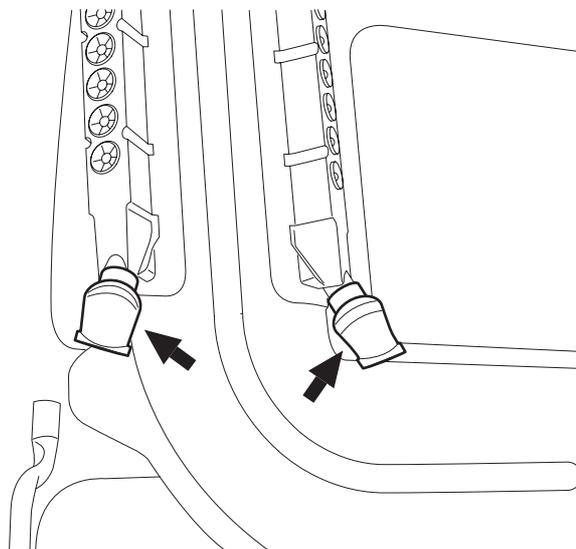
+



G000087

3.16 CHECKING THE AIR INLET DUST TRAPPING VALVE

1. Check the condition of the rubber valves.

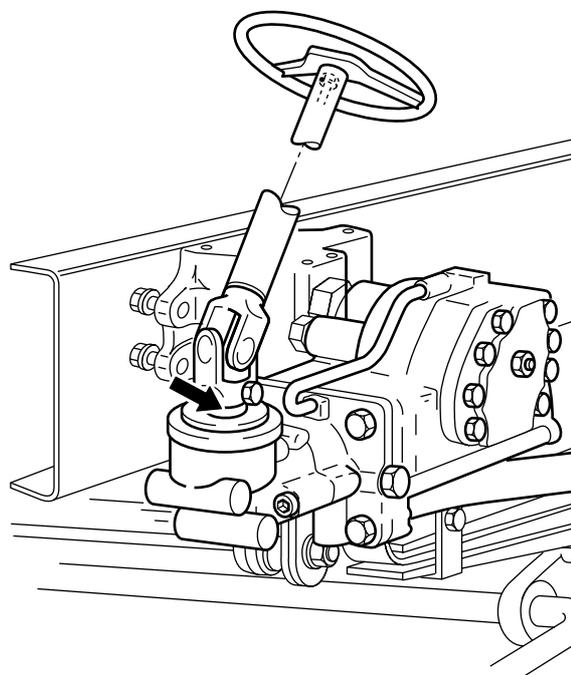


G000238

5

3.17 CHECKING THE UNIVERSAL JOINT ATTACHMENT ON STEERING BOX INPUT SHAFT

1. Check the universal joint for perceptible play. If perceptible play is detected, the affected part must be replaced.
2. Check whether there is any perceptible play between the spline connection of the universal joint and the steering box input shaft. If perceptible play is detected, the splines on the universal joint and those on the input shaft must be checked for wear. If wear is detected, the affected part must be replaced.
3. If there is perceptible play but the parts are not worn, the attachment bolt and nut must be replaced. Tighten the attachment bolt and nut to the specified torque, see "Technical data".



S7 00 639

EXPLANATORY NOTES ON THE MAINTENANCE ACTIVITIES

CF85 series

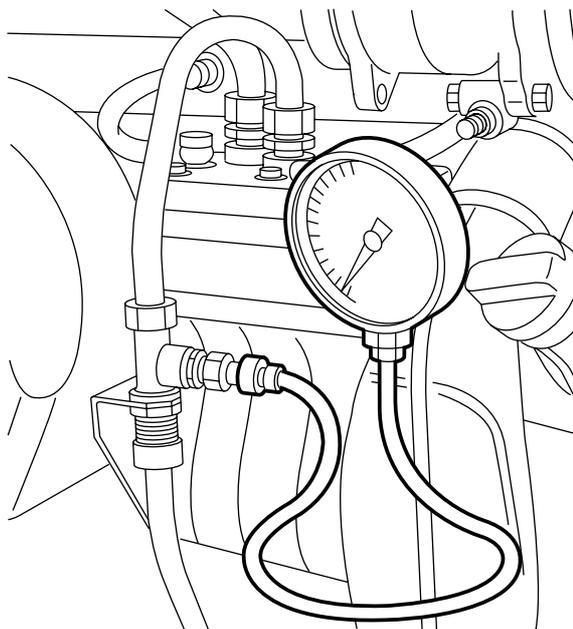
Inspection and adjustment

8. The pressure gauge should indicate a pressure below 2 bar **with the pressure regulator switched off**. If the measured pressure exceeds the value indicated, the compressor line should be cleaned or replaced.

Note:

If the pressure measured is too high, there is excessive carbon deposit in the compressor line. This may be due to the poor condition of the compressor (oil consumption).

9. Run the engine at idling speed.
10. Bleed the brake system until the cut-in pressure of the pressure regulator has been reached and switch off the engine. The needle of the pressure gauge may not drop too quickly now. If necessary, check the system for air leakage. Pay particular attention to the compressor line and compressor.
11. Fit the safety valve.
12. Connect the compressor control line to connection point 23 of the air dryer.



R600249

5

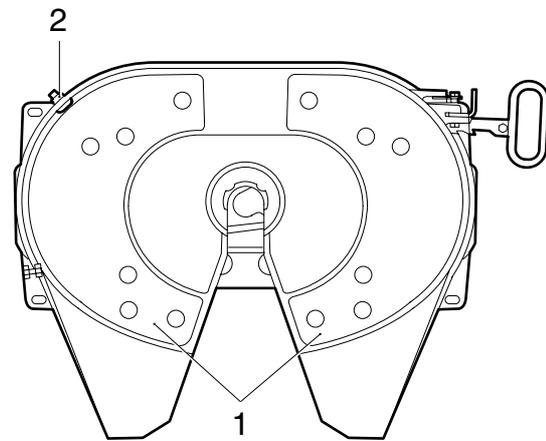
3.35 INSPECTING THE FIFTH WHEEL

1. Check the attachment of the fifth wheel.
2. Check the play of the closing gear of the fifth wheel.

Note:

For maximum play values, consult the manufacturer's instructions or the legal requirements.

3. In the case of fifth wheels with a plastic sliding plate (1), check for wear. The plastic sliding plate (1) must not lie flush with the top of the attachment bolts.



V300372

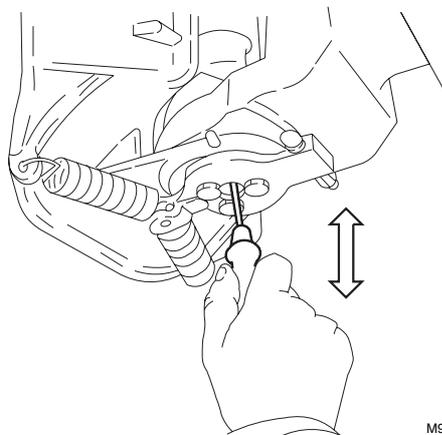
EXPLANATORY NOTES ON THE MAINTENANCE ACTIVITIES

Inspection and adjustment

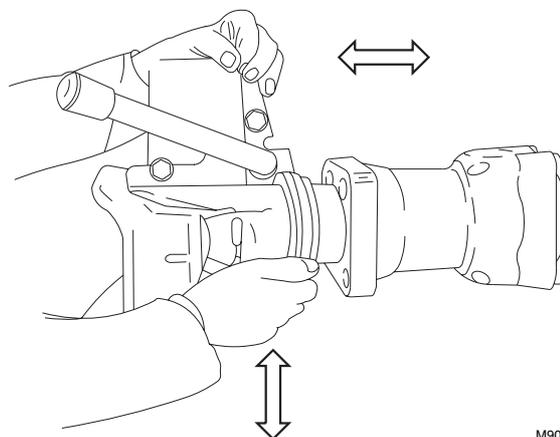
CF85 series

3.36 CHECKING THE TRAILER COUPLING

1. Check the vertical play of the arched pin.
2. Check the radial play of the arched pin.



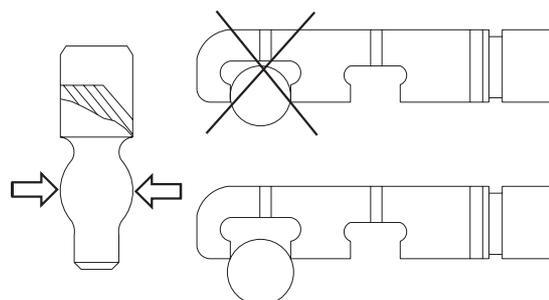
3. Check the vertical and horizontal play of the coupling jaw.



4. Check the diameter of the arched pin.
5. Check the attachment of the trailer coupling and the rear cross member.

Note:

For maximum play values, consult the manufacturer's instructions or the specified legal requirements.



Version with steel reservoir

Removing the steering gear filter element

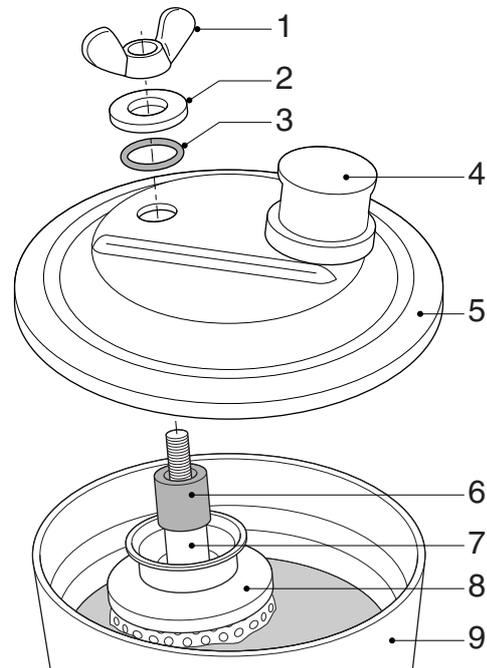
1. Clean the reservoir cover, so that absolutely no dirt can get into the reservoir.
2. Remove the wingnut (1).
3. Remove the steel ring (2) and the sealing ring (3).
4. Remove the cover (5).
5. Remove the rubber bush (6) and steel bush (7).
6. Slowly remove the filter element (8) from the reservoir (9).

Note:

The filter element must be removed from the reservoir with care so that no dirt remains in the reservoir.

Installing the steering gear filter element

1. Fit a new filter element (8) into the reservoir (9).
2. Fit the spacer sleeve (7).
3. Check the flexibility of the rubber bush (6) and replace if necessary. Install the rubber bush (6).
4. Check the sealing ring on the cover (5) and replace if necessary. Fit the cover (5).
5. Check the rubber ring (3) and replace if necessary. Install the rubber ring (3) and steel ring (2).
6. Fit the wing nut (1).
7. Check the fluid level using the dip stick (4).



S7 00 720

4.10 REMOVAL AND INSTALLATION, OIL FILTER IN FLUID FLOW CONTROL VALVE BLOCK OF EMAS SYSTEM



Drained steering oil must not be re-used.

Make sure that during filling and bleeding the reservoir always remains filled with oil in order to prevent the pump from drawing in air which would cause foaming in the oil.

Air in the hydraulic system may cause serious damage to the steering pump. Air in the hydraulic system can cause the steering gear to jam occasionally.

If the hydraulic system contains air, a squealing sound will be heard when the steering wheel is turned and pressure is built up.

In the case of serious foaming, the steering oil should be completely drained.

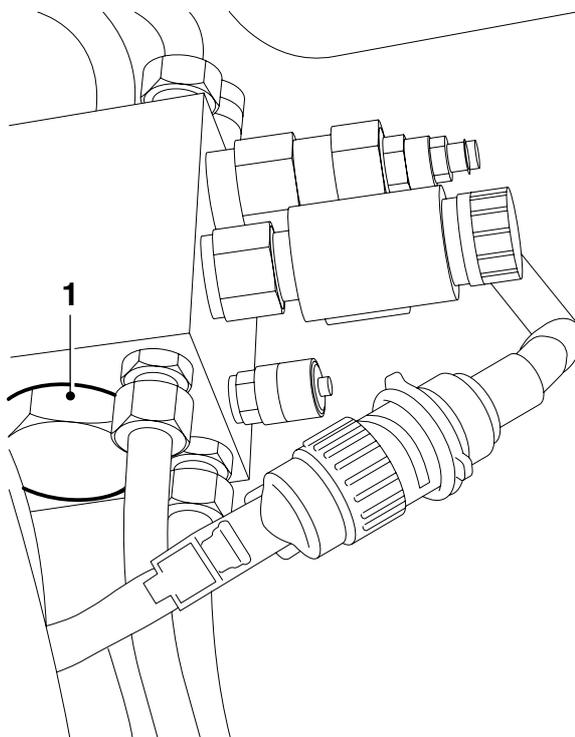
5

Removing the filter of the fluid flow control valve block

1. Place a receptacle under the valve block.
2. Remove the plug (1) from the valve block.
3. Turn a bolt (M6) into the filter.
4. Remove the filter by pulling the screwed-in bolt.
5. Remove the O-ring from the plug.

Installing the filter of the fluid flow control valve block

1. Always fit a new O-ring to the plug and lightly lubricate the O-ring with oil.
2. Fit the new filter in the valve block.
3. Fit the plug (1).
4. Tighten the plug to the specified tightening torque, see "Technical data".
5. Top up the system.
6. Bleed the steering circuit of the front axle.



S700848

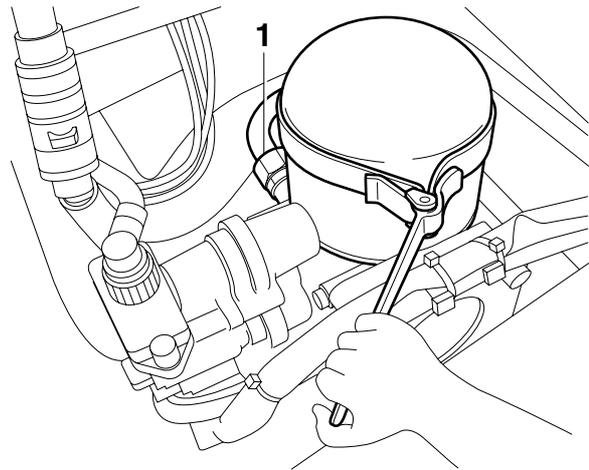
4.11 REMOVAL AND INSTALLATION, AIR DRYER FILTER ELEMENT

Note:

To be certain that the air dryer is functioning properly, the air reservoirs should regularly be checked for condensation. If more than the normal amount of water is drained off repeatedly, the air dryer element must be replaced. Under normal circumstances the element must be replaced at least once per year.

Removing air dryer filter element

1. Vent the air dryer by allowing it to regenerate or by loosening the compressor line (1), so that the interior of the air dryer is depressurised.
2. Remove the filter element by turning it anti-clockwise using a filter strap spanner.
3. Dispose of the drying element as if it were an oil filter.
4. Clean the air dryer internally.

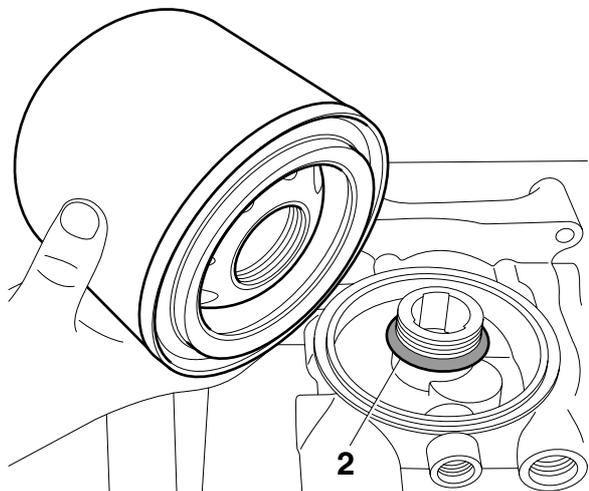


R600525

5. Check the air dryer threaded connection (2) for damage and then lubricate it sparingly with grease.

Installing the air dryer filter element

1. Lubricate the sealing ring of the new filter element sparingly with grease.
2. Fit the filter element by manually tightening it until the sealing ring abuts. Then tighten the element by hand (approx. 1 turn).
3. Fasten the compressor line (1).
4. Pressurise the system and then check the air dryer for any air leaks.



R600526

5. DRAINING AND FILLING

5.1 TOPPING UP BATTERY FLUID



Avoid sparks and open flames in the vicinity of batteries.

Battery acid is an aggressive fluid. In the event of contact with the skin: rinse the skin with plenty of water for a sustained period. If redness or pain persists, consult a doctor. Remove any clothing affected and rinse with water.

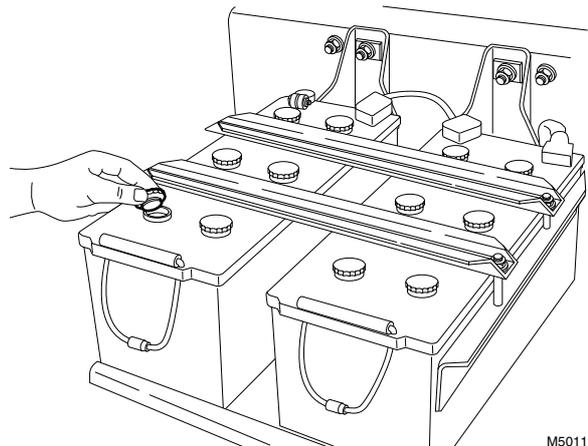
In the event of contact with the eyes: rinse with plenty of water for at least 15 minutes and consult a doctor.

If swallowed: do NOT induce vomiting. Rinse the mouth, drink two glasses of water and consult a doctor.

In the event of inhalation: get fresh air, rest and consult a doctor.

Topping up battery fluid

1. Clean the top of the battery. If the top of the battery has acid on it, it should be rinsed with water.
2. Remove the plugs and top up the batteries with distilled water to approximately 10mm above the plates or up to the "max" indicator level.



M5011

5.2 DRAINING AND FILLING THE ENGINE OIL



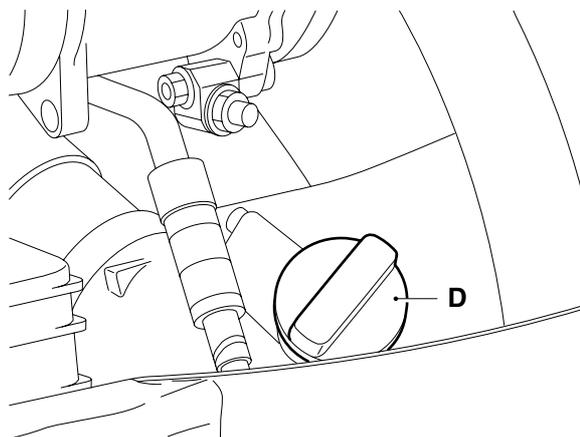
To prevent skin injury, avoid unnecessary contact with the drained oil

Draining the engine oil

1. Ensure that the vehicle is standing on a flat and level surface.
2. Drain the engine oil at operating temperature using the drain plug in the oil sump.
3. Replace the drain plug sealing ring and tighten the drain plug to the specified torque, see "Technical data".

Filling the engine oil

1. Through the oil filler pipe (D), fill the engine with the specified amount of engine oil , see "Technical data".
2. Check the engine oil level, see "Inspection and adjustment".



V300389

5.3 DRAINING AND FILLING, COOLING SYSTEM



When the coolant is hot, there is an overpressure in the cooling system. Carefully remove the filler cap to release the overpressure.

Do not remove the filler cap when the engine is running.

Coolant is a toxic fluid. Contact with the skin should therefore be avoided.

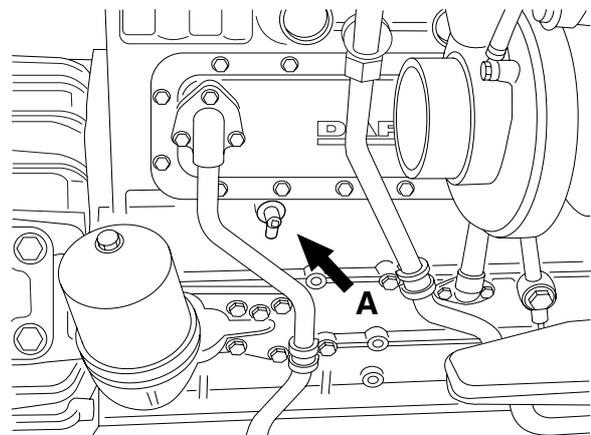
In the event of contact with the skin: remove the liquid with paper or a cloth, wash with soap and water. If irritation persists, consult a doctor. If swallowed: DO NOT induce vomiting. Rinse mouth, drink two glasses of water and consult a doctor.

In the event of inhalation: get fresh air and rest.

In order to avoid damaging the cylinder block, do not top up a warm engine with coolant.

Draining the cooling system

1. Turn the heater control knob to the maximum "hot" temperature setting. As a result, the heater valve will be fully opened.
2. Remove the cooling system filler cap.
3. Collect the coolant. Position suitable containers under the drain points.
4. Drain the cooling system at the cylinder block via the drain cock (A) and the radiator via the drain plug (B). If an integrated retarder is fitted, remove the coolant drain plug of the heat exchanger.
5. Flush the cooling system.

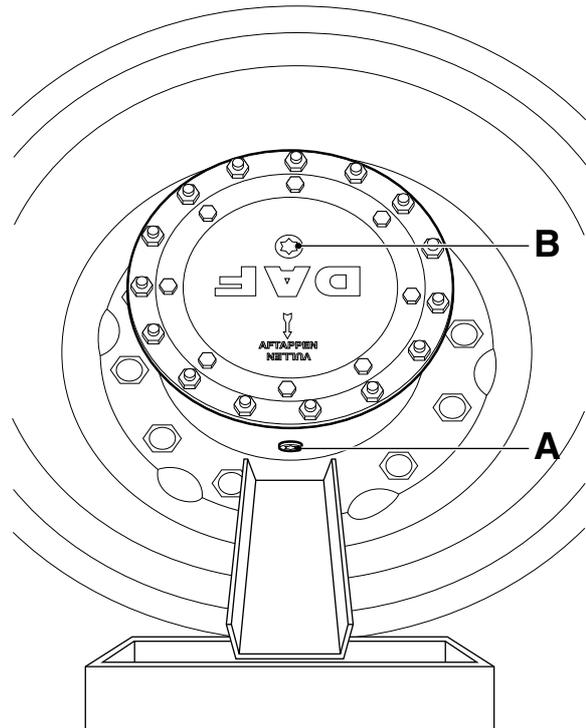


G000181

Version: 1354 and 1355(T) axles

Draining the wheel hub

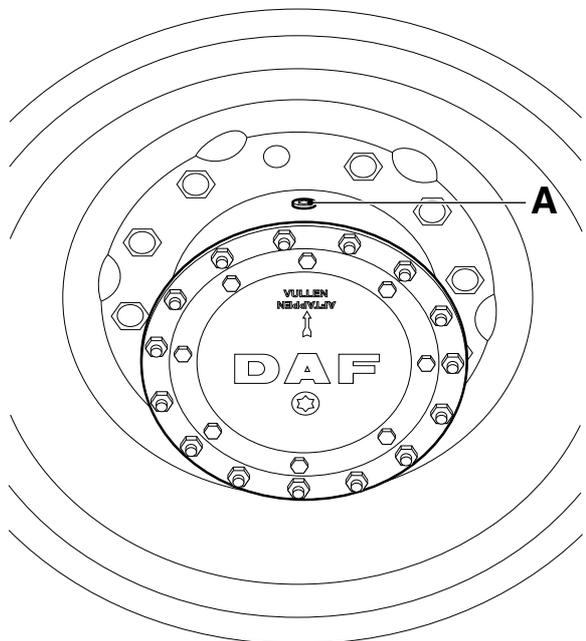
1. Position the vehicle on a level surface.
2. Position the wheels in such a way that the oil drain/filler plug (A) is on the underside.
3. Remove the oil level check plug (B) and oil drain/filler plug (A).
4. Drain the oil and let the oil leak out of the hub.



A8 00 363

Filling the wheel hub

1. Position the wheels in such a way that the oil drain/filler plug (A) is at the top.
2. Fill the wheel hub with the specified quantity of oil. See "Technical data".
3. Check the oil level after approx. 5 minutes: it should reach up to the level check/filler plug.
4. Fit the plug using the special tool (DAF no. 1329493) and tighten the plug to the specified tightening torque. See "Technical data".



A8 00 364

6. CLEANING

6.1 CLEANING THE BATTERY POLES



Avoid sparks and open flames in the vicinity of batteries.

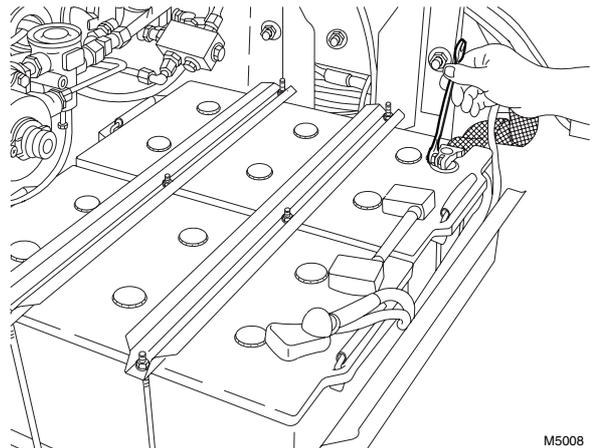
Battery acid is an aggressive fluid. In the event of contact with the skin: rinse the skin with plenty of water for a sustained period. If redness or pain persists, consult a doctor. Remove any clothing affected and rinse with water.

In the event of contact with the eyes: rinse with plenty of water for at least 15 minutes and consult a doctor.

If swallowed: do NOT induce vomiting. Rinse the mouth, drink two glasses of water and consult a doctor.

In the event of inhalation: get fresh air, rest and consult a doctor.

1. Disconnect the earth lead from the battery terminal.
2. Disconnect the positive lead from the battery terminal.
3. Clean the battery terminals, battery cables and the top of the battery (oxide and dirt discharge the battery).
4. If the top of the battery has acid on it, it should be rinsed with water.
5. Grease the battery terminals with Vaseline.
6. Check the earth lead connection to the chassis and grease the connection with Vaseline.
7. Fit the positive lead to the battery terminal.
8. Fit the earth lead to the battery terminal.
9. Check the routing and attachment of the battery cables.



M5008