DFG/TFG 425s - 435s

05.18

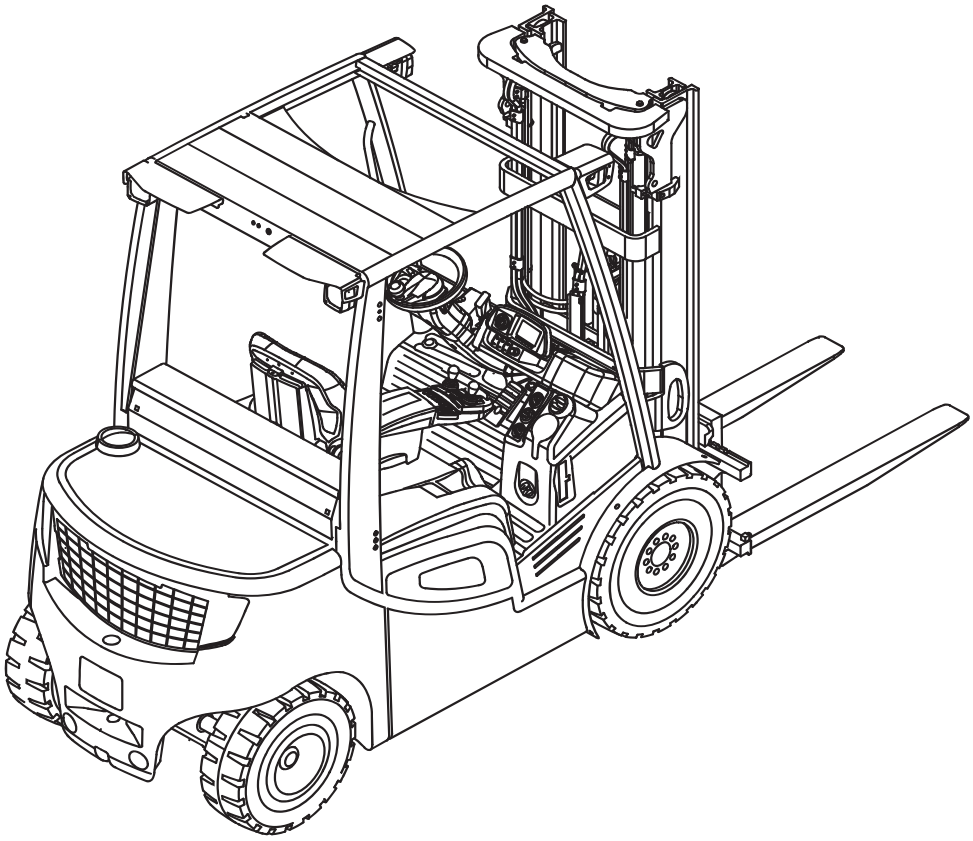
Operating instructions

GB

51694496

08.18

DFG 425s
DFG 430s
DFG 435s
TFG 425s
TFG 430s
TFG 435s



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A Correct Use and Application

1 General

The truck must be used, operated and serviced in accordance with the present instructions. All other types of use are beyond its scope of application and may result in damage to personnel, the industrial truck or property.

2 Correct application

NOTE

The maximum load and load distance are indicated on the capacity plate and must not be exceeded.
The load must rest on the load handler or be lifted by an attachment approved by the manufacturer.
The load must be fully raised, see page 111.

The following operations are in accordance with regulations and are permitted:

– Lifting and lowering of loads.
– Stacking and retrieving loads.
– Transporting of lowered loads over short distances
– Picking up and using attachments and accessories approved by the manufacturer may require additional approval from local authorities or an expert opinion.
– Occasional towing of trailers with the trailer coupling

➔ When towing trailers, the load must be secured on the trailer. The permissible trailer load must not be exceeded.

The following operations are prohibited:

– Travelling with a raised load (> 30 cm)
– Carrying and lifting persons without approved attachments or optional equipment [a)]
– Pushing or pulling loads, with the exception of occasional towing of trailers with the trailer coupling
– Transporting suspended loads without expert certification and without authorised optional equipment

➔ If the truck is to be operated with suspended loads, proof of sufficient operational stability under local operating conditions must be obtained from a specialist assessor.

a) Lifting passengers with a working platform or a work basket may be permitted in some countries, this must be verified by the operating company.

➔ Germany: DGUV information 208-031 (BGI/GUV-5183) Use of Working Platforms on Industrial Trucks with Mast

➔ Australia: AS 2359.1 Powered Industrial Trucks, General Requirements; AS 2359.2 Powered Industrial Trucks, Operations

3.1 Performance data

DFG 425s-435s

	Model	DFG 425s	DFG 430s	DFG 435s	
Q	Capacity (where D = 500 mm) [1]	2500	3000	3500	kg
D	Load centre distance	500	500	500	mm
	Travel speed with/without load *)	19.6/19.6	20.8/20.8	20.8/20.8	km/h
	Lift speed with/without load	0.56/0.56	0.56/0.56	0.48/0.48	m/s
	Lowering speed with/without load	0.56/0.56	0.56/0.56	0.56/0.56	m/s
	Gradeability [2] with/without load	27	24	21	%
	Acceleration with/without load to 15 m *)	4.9/4.4	5.4/4.6	5.4/4.7	s
	Available working pressure for attachments	215	215	215	bar
	Oil flow for attachments	32	32	32	l/min

[1] for vertical mast.

[2] The values shown represent the maximum gradeability to overcome short differences in height and surface unevenness (surface edges). The truck must not operate on inclines of more than 15%.

TFG 425s-435s

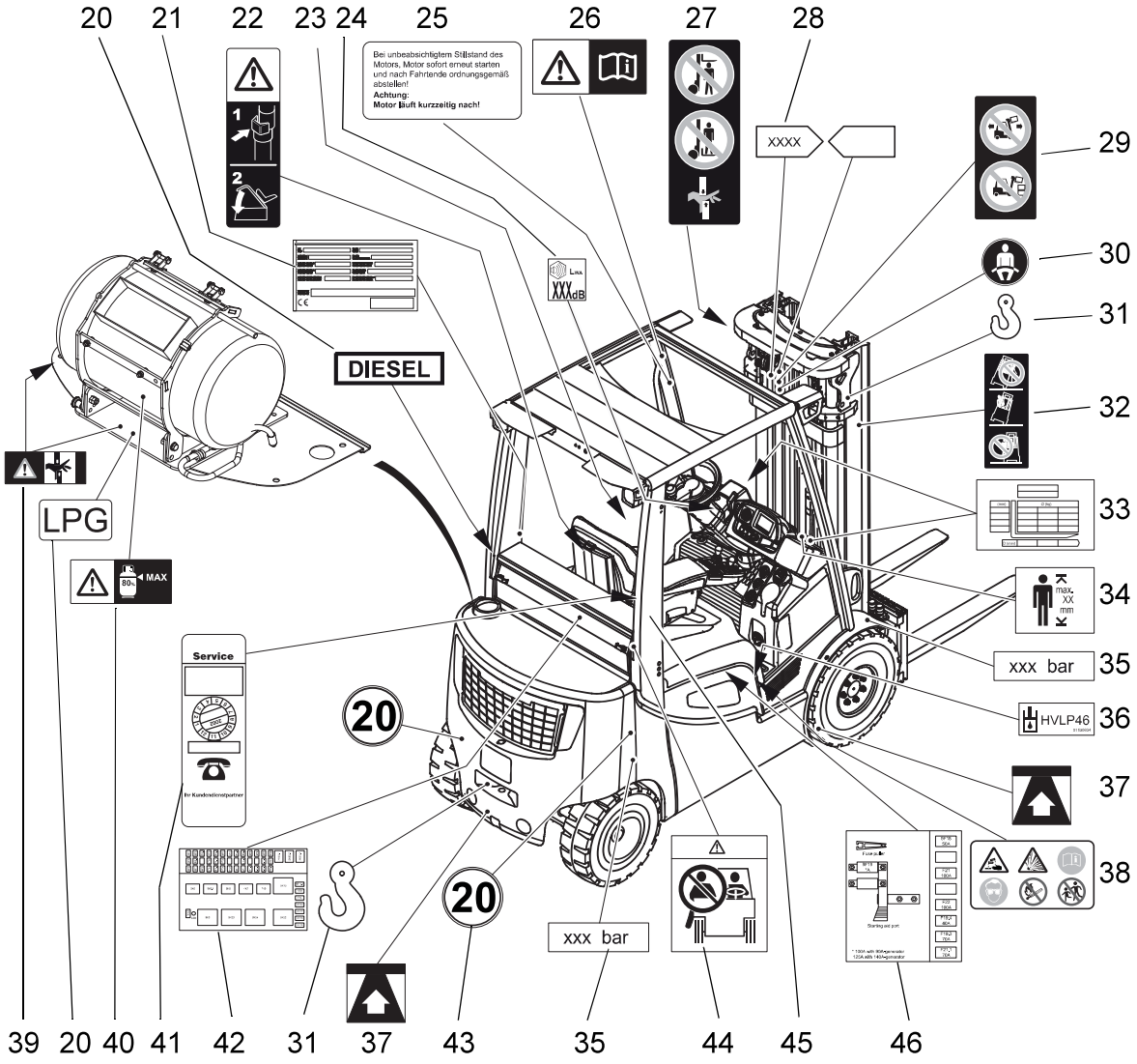
	Model	TFG 425s	TFG 430s	TFG 435s	
Q	Capacity (where D = 500 mm) [1]	2500	3000	3500	kg
D	Load centre distance	500	500	500	mm
	Travel speed with/without load *)	19.6/19.6	20.8/20.8	20.8/20.8	km/h
	Lift speed with/without load	0.56/0.56	0.56/0.56	0.48/0.48	m/s
	Lowering speed with/without load	0.56/0.56	0.56/0.56	0.56/0.56	m/s
	Gradeability [2] with/without load	27	24	21	%
	Acceleration with/without load to 15 m *)	5.7/5.0	6.0/5.1	6.1/5.2	s
	Available working pressure for attachments	215	215	215	bar
	Oil flow for attachments	32	32	32	l/min

[1] for vertical mast.

[2] The values shown represent the maximum gradeability to overcome short differences in height and surface unevenness (surface edges). The truck must not operate on inclines of more than 15%.

4 Identification Points and Data Plates

Warnings and notices such as capacity charts, strap points and data plates must be legible at all times. Replace if necessary.



Lifting the truck by crane

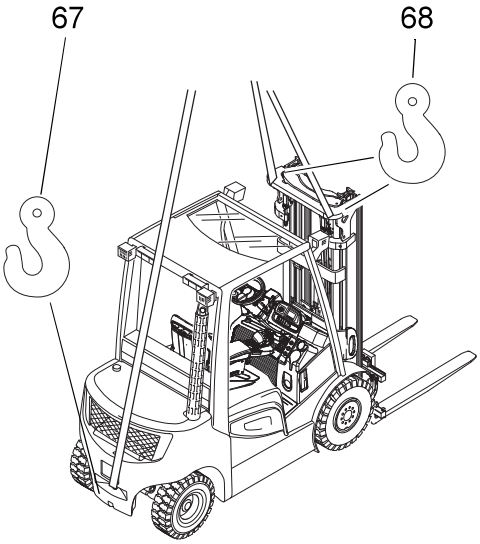
Requirements

– Park the truck securely, see page 98.

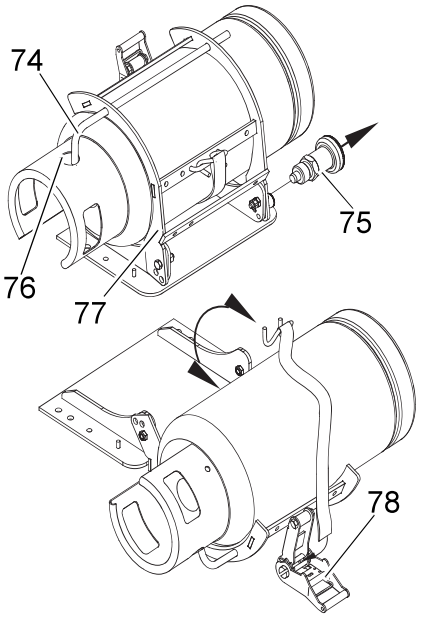
Procedure

- Secure the crane slings to the attachment points (68) and (67.
- Raise and load the truck.
- Lower and deposit the truck carefully (see page 98).
- Secure the truck with wedges to prevent it from rolling away.

This concludes the loading by crane.



Remove the LPG bottle



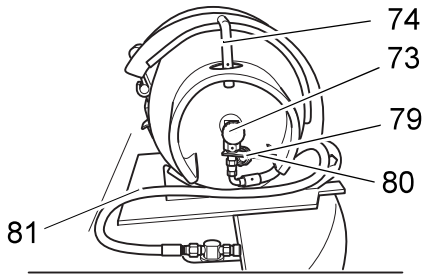
⚠ CAUTION!

The connection has a left thread

Procedure

- Unscrew the union nut (79) while holding against the handle (80).
- Remove the hose (81) and immediately screw the valve cap onto the empty LPG bottle.
- Remove the stop bolt (75) and rotate the LPG bottle and bracket around the handle (74).
- Fold back the lever of the toggle-type fastener (78) and remove the tensioning pivot.
- Remove the tensioning belt.
- Carefully remove the LPG bottle from the bracket (77) and place it down securely.

Inserting a new LPG bottle



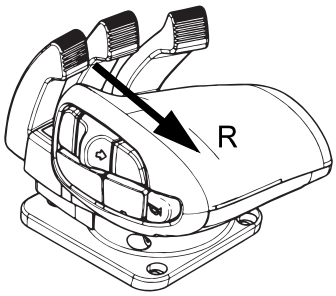
Procedure

- Place the LPG bottle in the bracket (77).
- Centre the handle (74) in the hole (76).
- Align the hose connection upwards.
- Fit the tensioning belt around the LPG bottle again and tension it with the toggle-type fastener (78).
- Fit the tensioning pivot and tension the belt with the toggle-type fastener (78).
- Rotate the LPG bottle and the bracket around the handle (74).
- Insert the stop bolt (75).
- Unscrew the valve cap.
- Fit the hose (81) in accordance with instructions.
- Carefully open the shut-off valve (73).
- Check the hose connection for leaks using a foam-forming agent.

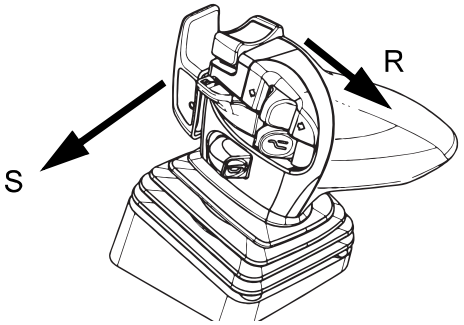
The replacement is now complete.

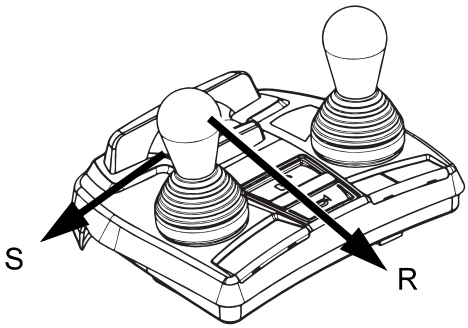
Symbol	Meaning
	Lock
	Crane
	Bucket
	Load holder
	Folding fork
	Adapters ZH1 to ZH4 (example symbol: ZH1)
	Changing attachments 1 to 4 (example: attachment 2)

The pictogram shows the direction of movement that is executed when the operator pulls the lever in direction (R).
The counter-movement of the work function is achieved by the operator pushing the lever accordingly.



For controls that operate at right angles to the travel direction, the function is shown with the actuation to the left (S) from the operator's perspective. The counter-movement of the work function is achieved by actuating the lever to the right from the operator's perspective.





2.7 Button allocation of the display

Functions and operator menus that can be operated via the icons and keys of the display unit depend on the operating situation as well as the scope and settings of the truck.

Accessory function in display unit via FN key, see page 65.

Symbol	Meaning
	Information field toggle: Allows the information displayed in the information field to be changed.
	Slow travel: Switches slow travel on and off.
	Operating program down: To switch the operating program down.
	Operating program up: To switch the operating program up.
	Settings: Change to setting mode. Set time and access authorisations (optional).
	Switch off (optional): Allows the truck to be switched off (if option available).
	Start the engine (optional): Allows the engine to be started (if option available).

3.4 Setting up the operator position

⚠ WARNING!

Accidents can occur if the driver's seat, steering column and armrest are not engaged

The driver's seat, steering column and armrest can accidentally adjust during travel and therefore cannot be operated safely.

▶ Do not adjust the driver's seat, steering column or armrest while travelling.

Procedure

- Before starting to travel, adjust the driver's seat, steering column and armrest (if necessary) so that all the controls are within reach and can be applied without having to strain.
- Adjust the visibility aid equipment (mirrors, camera systems etc.) so that the working environment can be clearly seen.

3.4.1 Adjusting the driver's seat

⚠ WARNING!

Risk of accidents and damage to health

An unsecured or incorrectly adjusted driver's seat can result in accidents or damage to health.

▶ Do not adjust the driver's seat while travelling.

▶ The driver's seat should lock in position after adjustment.

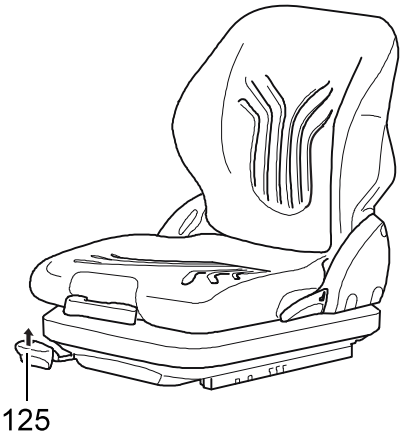
▶ Check and, if necessary, adjust the individual seat setting and driver's weight setting before starting up the truck.

Adjusting the seat position

Procedure

- Sit on the driver's seat.
- Pull up the driver's seat locking lever (125) in the direction of the arrow.
- Push the driver's seat forwards or backwards to the desired position.
- Engage the driver's seat locking lever (125) in position.

The seat position is now correctly set.



4 Industrial Truck Operation

4.1 Safety regulations for truck operation

⚠ WARNING!

Magnetic fields can cause accidents

Electronic components can be affected or damaged by external magnetic fields. This can lead to malfunctions or accidents.

▶ Do not use or keep magnets or clamping magnets in the immediate vicinity of the controls.

Travel routes and work areas

Only use lanes and routes specifically designated for truck traffic. Unauthorised third parties must stay away from work areas. Loads must only be stored in places specially designated for this purpose.
The truck must only be operated in work areas with sufficient lighting to avoid danger to personnel and materials. Additional equipment is necessary to operate the truck in areas of insufficient lighting.

⚠ DANGER!

Do not exceed the permissible surface and point loading on the travel lanes.
At blind spots get a second person to assist.
The driver must ensure that the loading dock /dock leveller cannot be removed or come loose during loading/unloading.

NOTE

Loads must not be deposited on travel or escape routes, in front of safety mechanisms or operating equipment that must be accessible at all times.

Travel conduct

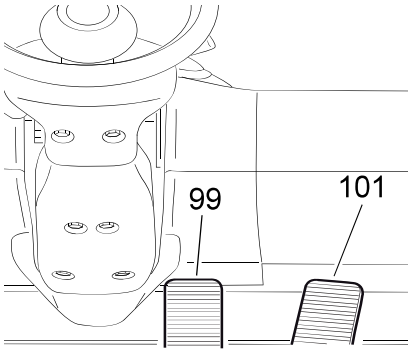
The operator must adapt the travel speed to local conditions. The truck must be driven at slow speed when negotiating bends or narrow passageways, when passing through swing doors and at blind spots. The operator must always observe an adequate braking distance between the forklift truck and the vehicle in front and must be in control of the truck at all times. Abrupt stopping (except in emergencies), rapid U turns and overtaking at dangerous or blind spots are not permitted. Do not lean out or reach beyond the working and operating area.

Do not use a mobile phone or walkie-talkie without a handsfree device while operating the truck.

What to do in hazardous situations

If the truck is about to tip over, do not loosen the seat belt. The operator must not jump off the truck. The operator must lean his upper body over the steering wheel and hold on with both hands. Tilt your body in the opposite direction of the tipping.

4.7.1 Single pedal



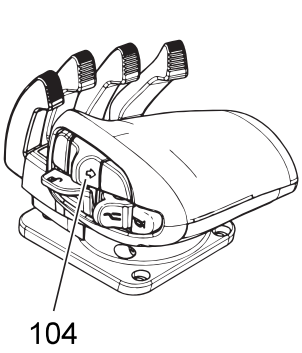
Requirements

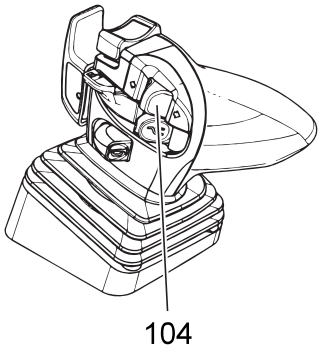
– Truck prepared for operation, see page 95.

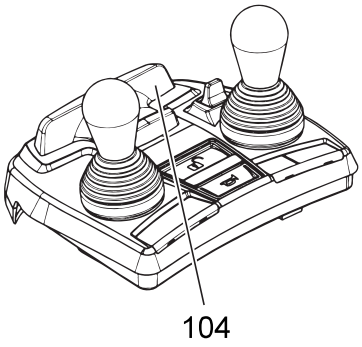
Procedure

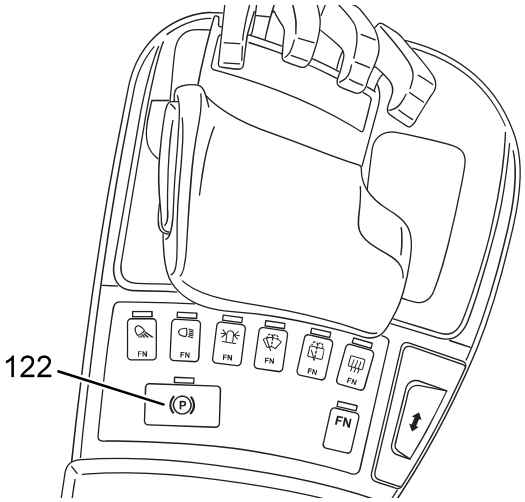
- Release the parking brake, to do this press the parking brake button (122).
- Select the travel direction with the travel direction switch (104).
- Select the travel speed if necessary, to do this press the slow travel button (147) or the program selector (146/145).
- Raise the load handler approx. 200 mm.
- Tilt the mast back.
- Apply the accelerator pedal (101). The travel speed is governed by the accelerator (101).

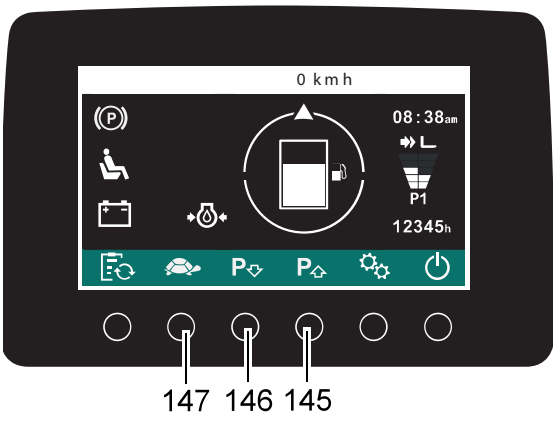
The truck travels in the direction selected.











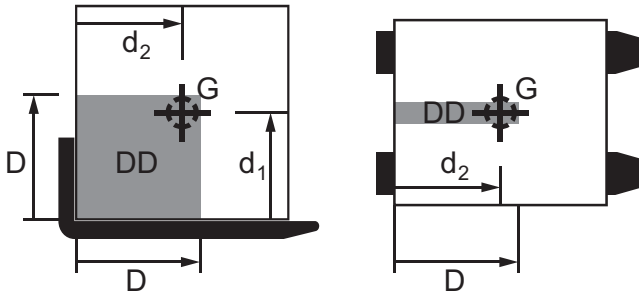
4.12 Lifting, transporting and depositing loads

⚠ WARNING!

Risk of accident when the centre of gravity of the load is outside of the load centre distance

If the centre of gravity G of a raised load lies outside the load centre distance D specified for the load handler in the horizontal or vertical planes, under unfavourable conditions the raised load and also the truck can tip over while working.

- ▶ Observe load centre distances and capacities of the load handler, see page 34.
- ▶ Pick up the load so that its centre of gravity lies between the load arms of the load handler.
- ▶ Preferably, the load should be configured and picked up so that its centre distance lies within the load centre distance of the load handler ($d_1 \leq D$ and $d_2 \leq D$, see area DD in the illustration).
- ▶ A load with a centre of gravity outside of the load centre distance of the load handler ($d_1 > D$ and/or $d_2 > D$) should only be moved very carefully, as this load case has not been checked on a truck tested according to the test guideline.



For loads with an even weight distribution, the load centre distance lies in the geometrical centre of the volume.

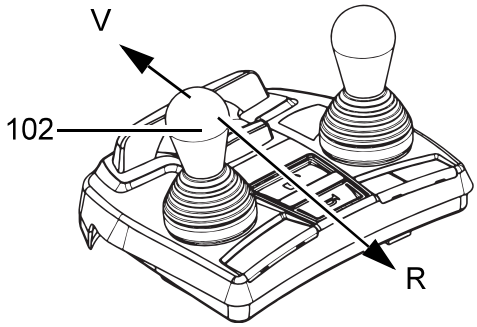
For rectangular loads with an even weight distribution over the entire volume the load centre distance is in the middle, i.e. half the length, half the height and half the width of the load.

4.13.3 Operating the Lift Mechanism with the Duo-Pilot

Lifting and lowering

Requirements

– Truck prepared for operation, see page 95.



Procedure

- Pull the lever (102) in direction R to raise the load.
- Push the lever (102) in direction V to lower the load.

The load is now raised or lowered.

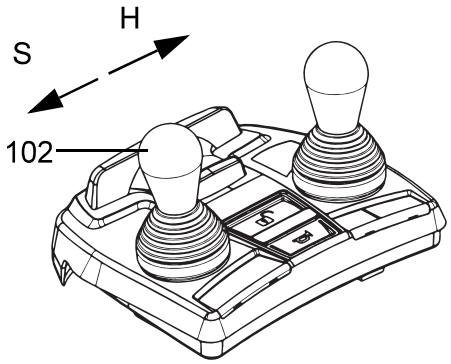
When the limit position for the operation has been reached (there will be a noise from the pressure relief valve) release the lever. The lever will revert automatically to neutral.

Tilting the mast forward/backward

⚠ CAUTION!

Trapping hazard from inclined mast

▶Make sure no part of your body is between the mast and driver's cab when tilting the mast back.



Requirements

– Truck prepared for operation, see page 95.

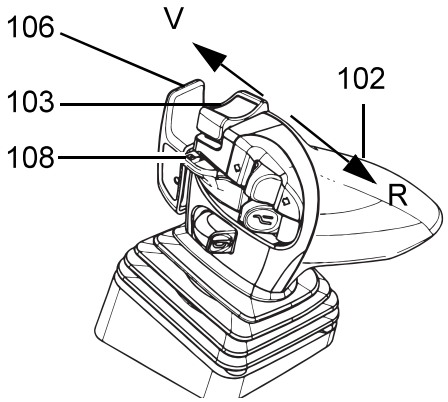
Procedure

- Push the lever (102) in direction H to tilt the mast forward.
- Pull the lever (102) in direction S to tilt the mast back.

The mast is now tilted back or forward.

When the limit position for the operation has been reached (there will be a noise from the pressure relief valve) release the lever. The lever will revert automatically to neutral.

4.16.2 Multi Pilot with control of ZH1 and ZH2 hydraulic ports



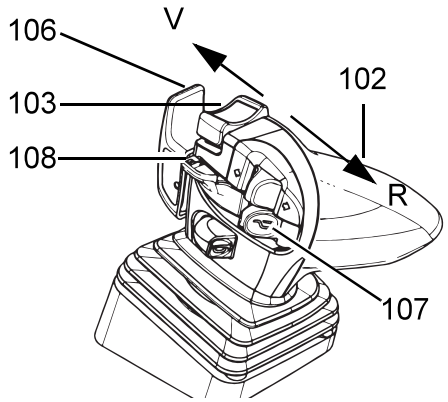
Depending on the attachments used the lever / button (106,102,103) is assigned the function of the attachment. Unused levers have no function. For connections see page 134.

Procedure

- Operating hydraulic port ZH1:
  Press the (103) button to the left or right.
- Operating hydraulic port ZH2:
  Press the acknowledgement key (108) and then within 2 seconds push the lever (106) in direction V or pull it in direction R.

The attachment performs its operation.

4.16.3 Multi Pilot with control of ZH1, ZH2 and ZH3 hydraulic ports



Depending on the attachments used the levers / buttons (102, 103, 107, 108) are assigned the respective functions. Unused levers have no function. For connections see page 134.

Procedure

- Operating hydraulic port ZH1:
  Press the (103) button to the left or right.
- Operating hydraulic port ZH2:
  Push the lever (106) in direction V or pull it in direction R.
- Operating hydraulic port ZH3:
  Push the toggle switch (107), press the acknowledgement key (108) and within 2 seconds move the lever (106) to the left or right.
- Now pull the toggle switch (107).

The attachment performs its operation.

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- If the contents of the operating instructions for the particle filter are observed, actuate the confirm button (155) to begin the regeneration process.
  If not, actuate the back button (154) to cancel so the regeneration process is not yet begun.

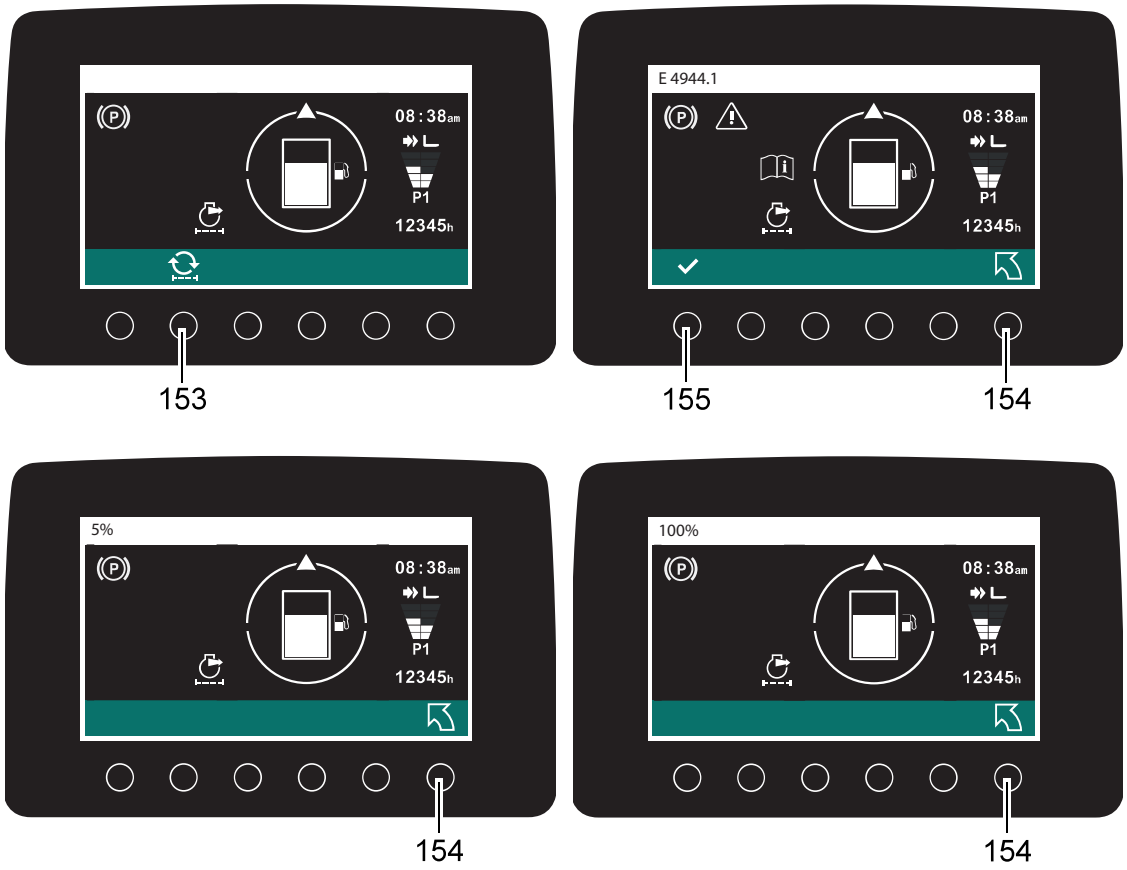
➔ The progress is shown on the display unit.

- If required, an ongoing regeneration process can be cancelled via the back button (154).

➔ Releasing the parking brake or actuating a hydraulic function will also cancel an ongoing regeneration process.

- Once the regeneration process is "100 %" complete, actuate the back button (154) to switch to regular truck operation.

Stationary regeneration has been performed.



Maintenance / Servicing / Repair

Any work performed on the particle filter system, servicing and repairs must only be carried out by the manufacturer's specialist service engineers. Use only spare parts and consumables approved by the manufacturer.

6.4.6 Deleting an access code (display unit)

Requirements

– The truck is switched on, see page 148.

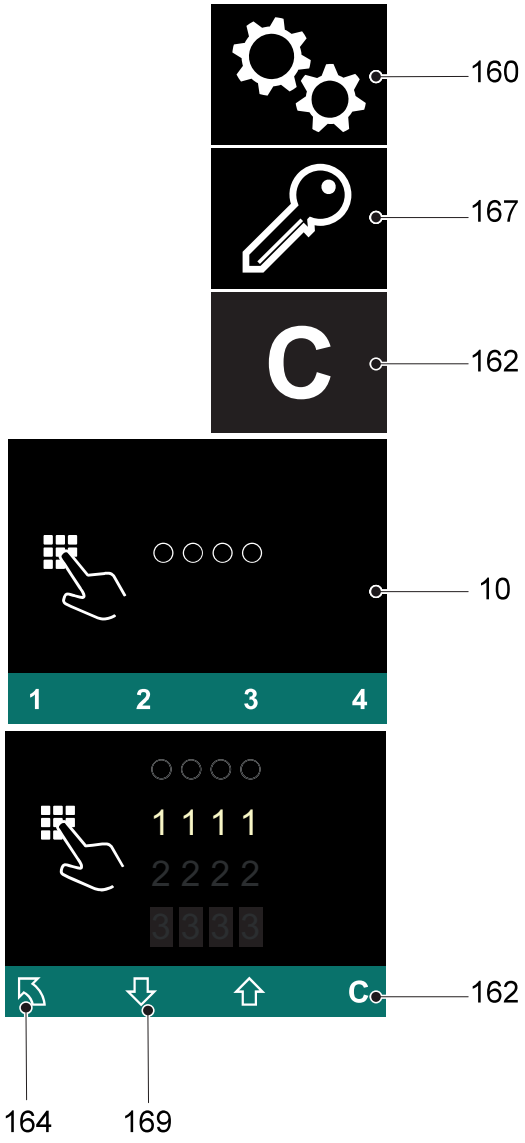
Procedure

- Press the key below the "Settings" symbol (160).
- Press the key below the "Edit access code" symbol (167).

  The set-up code is requested.
- Enter the set-up code using the keys below the display unit (10).

  All the access codes are displayed.
- Select the access code to be deleted using the key below the "Down selection" symbol (169).
- Press the key below the "Delete" symbol (162).

  The access code has been deleted.
- To return to the main menu, press the key below the "Back" symbol (164).



6.6.6 Deleting transponders

Requirements

– The truck is switched on, see page 158.

Procedure

- Press the key below the "Settings" symbol (160).
- Press the key below the "Edit transponder" symbol (167).
  The set-up transponder is requested.
- Place the set-up transponder on the transponder reader (158).
  All transponder codes are shown on the display unit (10).
- Select the transponder code to be deleted using the key below the "Down selection" symbol (169).
- Press the key below the "Delete" symbol (162).
  The transponder has been deleted.
- To return to the main menu, press the key below the "Back" symbol (164).

6.13 Panel door

⚠ CAUTION!

Open doors can result in accidents

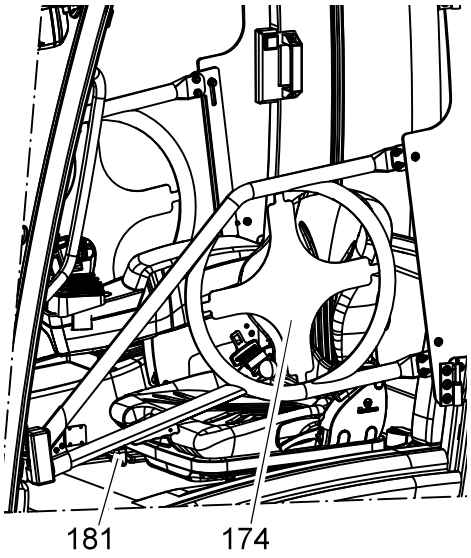
- ▶ Do not travel with an open door. When opening the door, make sure there is nobody in the door's swing range.
- ▶ Always close the door tightly and make sure it is securely fastened.
- ▶ Closing the door does not release the driver from his responsibility to wear a seat belt, see page 88.

What to do in hazardous situations

If the truck is about to tip over, do not loosen the seat belt. The operator must not jump off the truck. The operator must lean his upper body over the steering wheel and hold on with both hands. Tilt your body in the opposite direction of the tipping.

Procedure

- Pull the handle (181) towards the operator position, the door swings open.
- Pull the door (174) towards the operator; the door closes.



Summer door control is available as an option. Travel is only enabled when the summer door is closed.

6.24 Operating the Auxiliary Hydraulics without Pressing the Acknowledgement Key

⚠ WARNING!

Hydraulic ports for clamping attachments

▶Clamping attachments may only be added to trucks which have a button to enable additional hydraulic functions.

⚠ WARNING!

Incorrect symbols can cause accidents

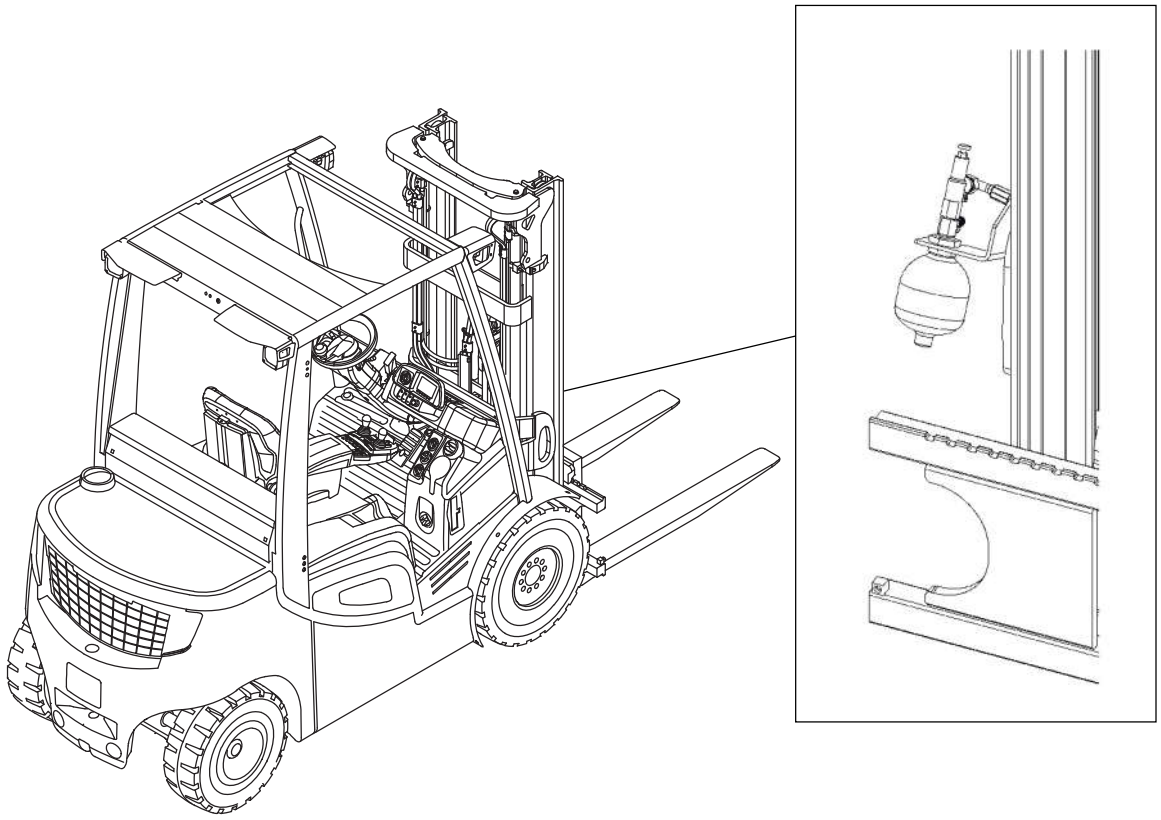
Symbols on controls that do not depict the function of the attachments can cause accidents.

▶Mark the controls with symbols that indicate their function.

▶Specify the attachments' direction of movement in accordance with ISO 3691-1 so that they match the controls' direction of movement.

Start up and commissioning

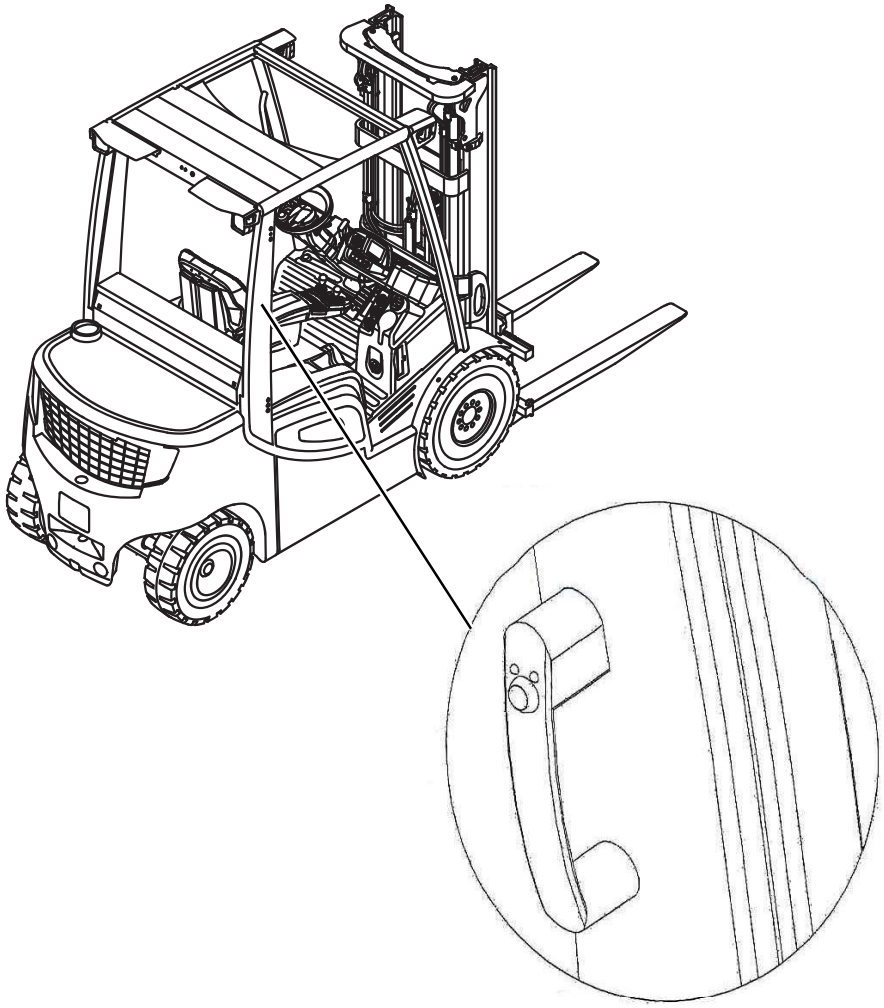
Before starting up the truck you must check the hydraulic accumulator, the hose and the pressure relief valve for damage. If you discover any damage or faults remove the truck from service immediately.



6.34 Horn Button on Overhead Guard

When the horn button on the overhead guard is actuated, an acoustic signal is triggered.

➔ Use the horn button on the overhead guard only when reversing.



Fault	Possible cause	Remedy
Excessive steering play	– Air in steering system.	– Check hydraulic oil level and top up if necessary, then turn the steering wheel several times from one end to the other.
Engine does not start	– Air filter contaminated.	– Clean or replace air filter.
DFG: Engine does not start	– Fuel tank empty, injection system has suctioned in air. – Water in the fuel system. – Incorrect fuel used. – Fuel filter contaminated. – Paraffin separation from the diesel (flakes forming).	– Fill up with diesel and arrange for the injection system to be bled by Customer Services. – Drain the fuel system, fill up the truck and arrange for the fuel system to be bled by Customer Services. – Check the fuel tank, if necessary replace the fuel filter. – Park the truck in a warm room and wait until the separation has returned to its original state. If necessary replace the fuel filter. Add winter diesel.
TFG: Engine does not start	– LPG bottle shut-off valve closed. – LPG bottle empty. – Spark plugs damp, oily or loose. – Spark plugs faulty	– Shut-off valve open. – Replace the LPG bottle. – Dry, clean and tighten spark plugs. – Replace the spark plugs.

2.3 Wheels

⚠ WARNING!

The use of tyres that do not match the manufacturer's specifications can result in accidents.

The quality of tyres affects the stability and performance of the truck.

Uneven wear affects the truck's stability and increases the stopping distance.

- ▶ When replacing tyres make sure the truck is not skewed.
- ▶ Always replace tyres in pairs, i.e. left and right at the same time.

When replacing rims and tyres fitted at the factory, only use the manufacturer's original spare parts. Otherwise the manufacturer's specifications cannot be ensured. If you have any queries contact the manufacturer's customer service department.

2.4 Lift Chains

⚠ WARNING!

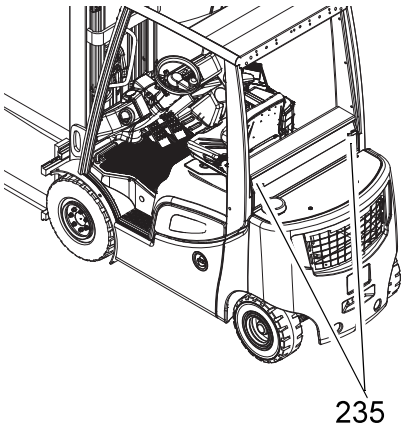
Risk of accident from non-lubricated and incorrectly cleaned lift chains

Lift chains are safety-critical parts. Lift chains must not show signs of serious contamination. Lift chains and pivot pins must always be clean and sufficiently lubricated.

- ▶ The lift chains are cleaned by wiping or brushing. Significant contamination can be softened by a paraffin derivative such as petroleum.
- ▶ Do not clean lift chains with high-pressure steam jets or chemical cleaning agents.
- ▶ Immediately after cleaning, dry the lift chain with compressed air and apply a chain spray.
- ▶ Lift chains must be unloaded when lubricated; to do this, fully lower the load handler.
- ▶ Lubricate a lift chain with particular care around the pulleys.

The intervals stated in the service checklist apply to normal duty use. More demanding conditions (dust, temperature) require more regular lubrication of the lift chains. The prescribed chain spray must be used in accordance with the instructions. Applying grease externally will not provide sufficient lubrication of the lift chains.

4.3 Opening the rear panel



Opening the panel

Requirements

– Prepare the truck for maintenance and repairs (see page 229).

Procedure

- Undo the two quick release fasteners (235).
  - Pull the rear panel back and remove it.

The rear panel is now open. The fuses and other electrical components can now be reached.

Closing the panel

Procedure

- Place the rear panel in position.
  - Secure two quick release fasteners (235).

The rear panel is now closed.

4.9 Cooling system

⚠ CAUTION!

Hot coolant can cause injury

The coolant is heated by the running engine and pressurised. When opening the filler cap under pressure, hot gas and hot fluid can escape from the expansion tank and cause scalding.

▶ Do not open the filler cap when pressurised.

▶ Allow the engine and coolant to cool sufficiently before opening the filler cap.

NOTE

Malfunction due to lack of coolant

The coolant must be between the MIN and MAX marks on the expansion tank. If the coolant is below the MIN mark, this indicates a possible leak in the cooling system.

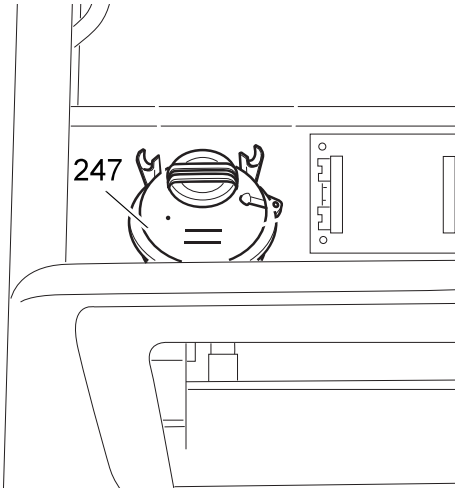
▶ Check the coolant level in respect of the marks on the expansion tank.

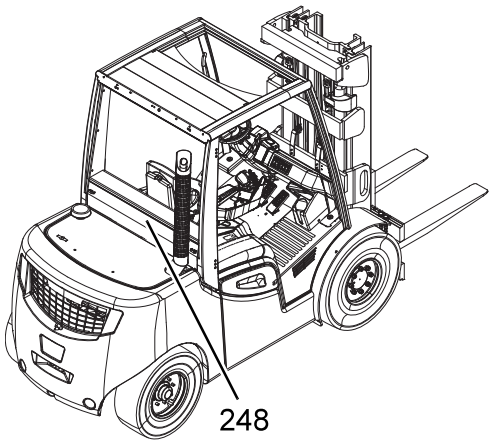
▶ If the coolant is below the MIN mark, further operation of the truck is prohibited. Do not operate the truck until the cause has been rectified.

Checking the coolant level

Procedure

- Park the truck securely on a level surface.
- Open the rear bonnet locks and lift off the rear bonnet, see page 231.
- Check the coolant level on the expansion vessel (247).
- Fit the rear cover (248) and snap it back into position.

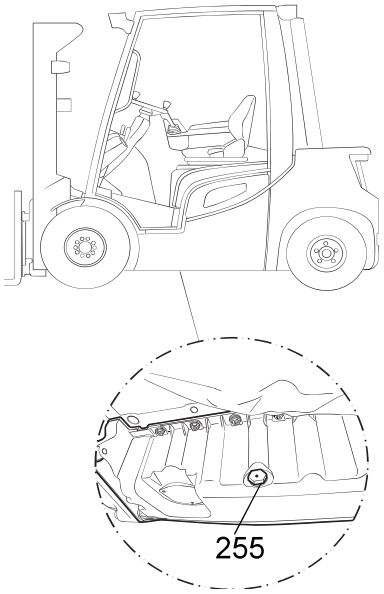


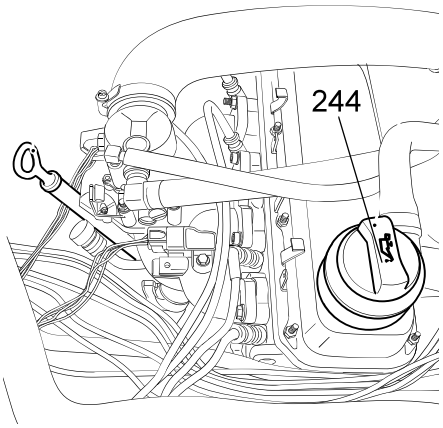


Draining the engine oil

Procedure

- Remove the floor plate.
- Unscrew the filler cap (244).
- Thoroughly clean the oil drain plug (255) and around the drain hole.
- Unscrew the oil drain plug.
- Collect any oil that emerges.
- Screw in the oil drain plug with a new seal (tightening torque 30 Nm).

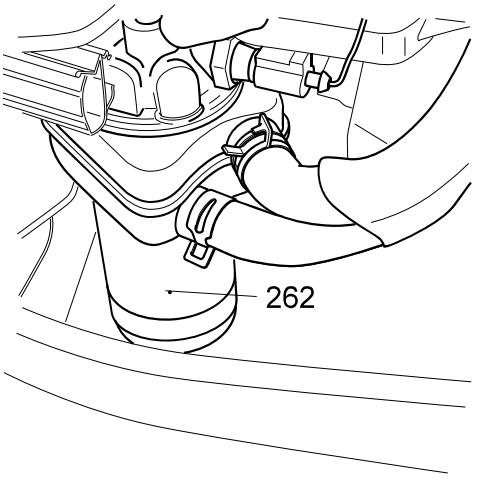




Replace the engine oil filter

Procedure

- Undo the oil filter (262) with a filter wrench and manually unscrew it.
- Thoroughly clean the sealing faces of the oil filter flange.
- Apply a thin layer of engine oil to the seal of the new oil filter.
- Hand-tighten the oil filter.



4.15 Starter battery

Checking the battery condition, the acid level and acid density

⚠ WARNING!

Batteries can be hazardous

Batteries contain an acid solution which is poisonous and corrosive. Avoid contact with battery acid at all times.

- ▶ Dispose of used battery acid in accordance with regulations.
- ▶ Always wear protective clothing and goggles when working with batteries.
- ▶ Do not let battery acid come into contact with skin, clothing or eyes. If necessary, rinse with plenty of clean water.
- ▶ In the event of physical damage (e.g. skin or eye contact with battery acid) call for a doctor immediately.
- ▶ Spilled battery acid should be neutralised immediately with plenty of water.
- ▶ Only batteries with a sealed battery container may be used.
- ▶ Follow national guidelines and legislation.

Check battery

Procedure

- Check the battery housing for cracks and any spilled acid.
- Remove any oxidisation remains from the battery terminals.
- Lubricate the battery terminals with an acid-free grease.

Checking the acid level and acid density

38

Procedure

- Clean the area around the plugs.
- Unscrew the plugs.

➔ The acid should lie between the top and bottom markings.

- If necessary, add distilled water up to the top marking.
- Check the acid density with an acid siphon.

➔ If the battery is charged sufficiently, the acid density should be 1.24 to 1.28 kg/l.

- Screw the plugs back on.
- Recharge the battery as required.
- Check that the warning symbols (38) are present on the battery.

Battery disposal

Batteries may only be disposed of in accordance with national environmental protection regulations or disposal laws. The manufacturer's disposal instructions must be observed.

1.1.2.2 Optional equipment

The following points must be checked:

Wiper/washer system

Chassis and superstructure
The windscreen washer reservoir for leaks and damage

Road traffic approval

Electrics
The function of the lighting and for damage

Work lights

Electrics
The function of the lighting and for damage

Weather proofing

Chassis and superstructure
The function of the doors and for damage

Optional equipment

Chassis and superstructure
The function of optional equipment such as mirrors, storage compartments, grips, windscreen wipers and washing systems, etc. and for damage

Strobe light / beacon

Electrics
Strobe light/warning beacon for function and damage

Heating coolant water

Chassis and superstructure
The function of the heater

Weather proofing

Chassis and superstructure
The function of the windscreen heating and for damage
The function of the doors and for damage

Electrical optional equipment

Electrics
The function of the optional electrical equipment and for damage

Optional equipment

Chassis and superstructure
The function of optional equipment such as mirrors, storage compartments, grips, windscreen wipers and washing systems, etc. and for damage

Sideshifter centring

Hydr. movements
The side shift centre position function

Strobe light / beacon

Electrics
Strobe light/warning beacon for function and damage

Overhead guard cover

Chassis and superstructure
Overhead guard cover is present and secure, and for damage

Audible warning devices

Electrics
Buzzer/warning alarm is secure and functions correctly and for damage

Belt lock control

Chassis and superstructure
The function of the seat belt monitoring and for damage

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