

ERE 120 - 225 drivePLUS

10.16

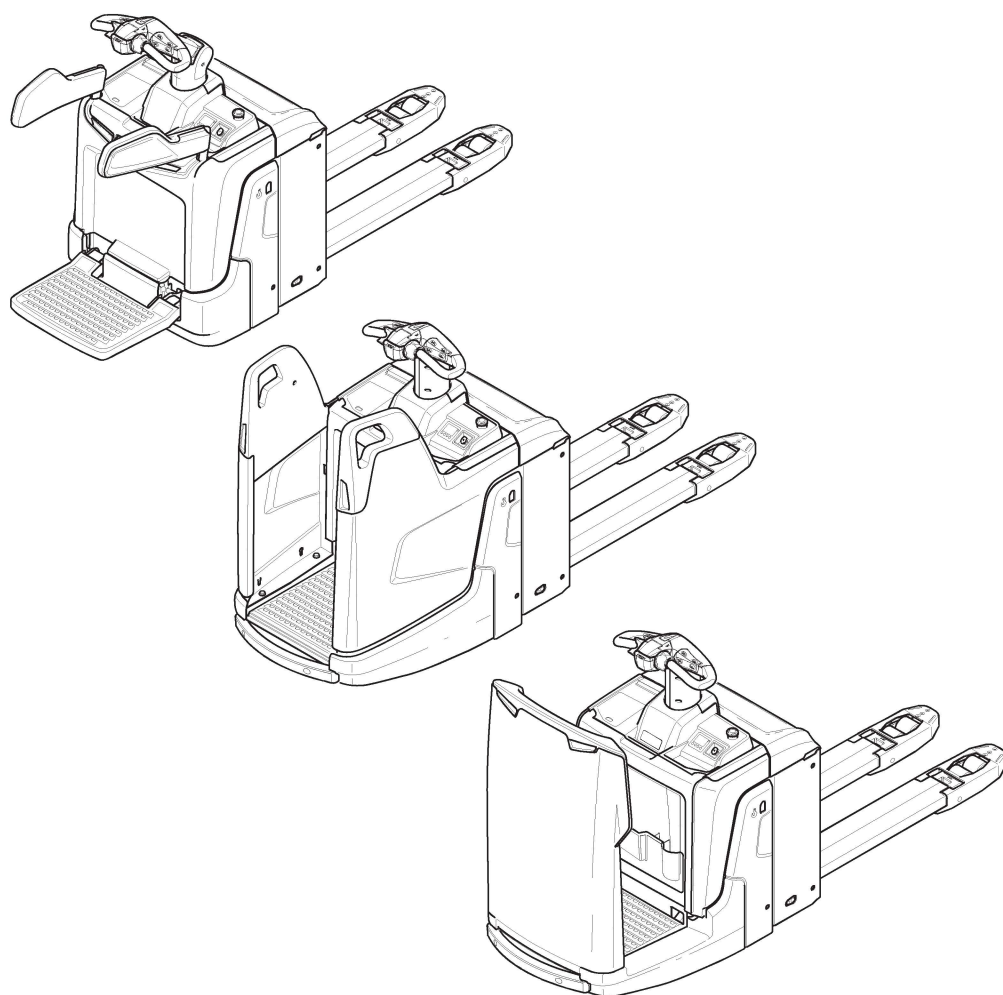
Operating instructions

en-GB

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ERE 120
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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

NOTICE

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.

The load must be fully raised, see page 109.

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

- Lifting and lowering loads.
- Storing and retrieving loads.
- Transporting raised loads.

The following operations are prohibited:

- Carrying and lifting passengers.
- Pushing or pulling loads.

3.2 Protective and safety equipment

Truck contour

An enclosed, smooth truck perimeter with rounded edges ensures safe handling of the truck. The wheels are surrounded by a solid skirt offering collision protection.

- The truck contour must not be changed. Contact the manufacturer's customer service department, if necessary.

Automatic reset of the controls

Version with swivelling tiller: When released, a gas strut pushes the swivelling tiller up and activates braking, see page 102.

The travel switch must be held in the travel position to move the truck. When released, the travel switch moves to the neutral position and the truck brakes, see page 103.

Emergency disconnect switch

Activating the emergency disconnect switch rapidly cuts out all electrical functions in hazardous situations, see page 91.

Collision safety switch

If the truck touches a person, the red collision safety switch changes the travel direction in pedestrian mode when travelling in drive direction with the platform and the side restraints folded up (○). The truck brakes, travels away from the operator for 3 s and stops. The truck colliding with the operator is prevented. The collision safety switch can also be activated for rider mode (○).

Emergency stop safety concept

The emergency stop is triggered by the traction controller. Each time the truck is switched on, the system carries out a self-diagnosis. The steering controller sends a system status signal, which is monitored by the traction controller. If the signal fails to appear or a fault is identified, the truck automatically brakes to a halt. Event messages on the display indicate the emergency stop.

Control displays on the display unit (2-inch display) (○) indicate the emergency stop.

CAUTION!

The truck brakes automatically

If the truck detects that required signals have not been received, or if it detects an error, the system reacts by triggering an emergency stop and brakes the truck to a halt.

- ▶ Rider mode: Take up a stable standing position and hold on with both hands.
- ▶ In pedestrian mode: Remain at the maximum distance from the truck during operation.

Load backrest

The load backrest (○) protects the operator from sliding loads.

	Description		
h14	Tiller height in travel position, folding operator platform	1150 / 1419	mm
h13	Lowered fork height	85	mm
c	Load centre distance with standard fork length	600	mm
h3	Rated lift	122	mm
b1	Overall width	770	mm
b5	Width across forks	535	mm
b10	Track width, rear	512	mm
b11	Track width, front	363	mm
s/e/l	Fork dimensions	55 / 172 / 1150	mm
a	Safety clearance	200	mm
l1	Overall length (M/L) ^{4) 5)}	1847 / 1919	mm
l2	Length including fork shank (M/L), folding operator platform ^{4) 5)}	696 / 768	mm
m2	Ground clearance, centre of wheelbase	30	mm
Ast	Aisle width for pallets 1000 x 1200 transv. (M/L) ^{1) 3) 4) 5)}	2411 / 2483	mm
Ast	Aisle width for pallets 800 x 1200 length (M/L) ^{1) 2) 4) 5)}	2414 / 2486	mm
Wa	Turning radius (M/L) ^{1) 5)}	1604 / 1676	mm

- 1) Load section lowered +56 mm
- 2) Diagonal in accordance with VDI: +205 mm
- 3) Diagonal in accordance with VDI: +369 mm
- 4) Side battery removal (battery tray L): +53 mm
- 5) Version with compact operator platform: +358 mm
Version with comfort operator platform: +472 mm
Version with L platform +477 mm

2 Transport

⚠ WARNING!

Uncontrolled movement during transport

Improper fastening of the truck and mast during transport can result in serious accidents.

- ▶ Loading is only to be carried out by specially trained staff. The specialist personnel must be instructed in the securing of loads on road vehicles and in the use of load-securing equipment. When securing the truck, the appropriate measures must be determined and applied for each individual case.
- ▶ The truck must be securely fastened when transported on a lorry or a trailer.
- ▶ The lorry or trailer must have lashing rings.
- ▶ Use wedges to prevent the truck from moving.
- ▶ Use only lashing straps with sufficient load rating.
- ▶ Use anti-slip material to secure loading aids (pallets, wedges,...), e. g. anti-slip mats.

Securing the truck for transport

Requirements

- The truck is now loaded.
- The truck is now parked securely, see page 86.

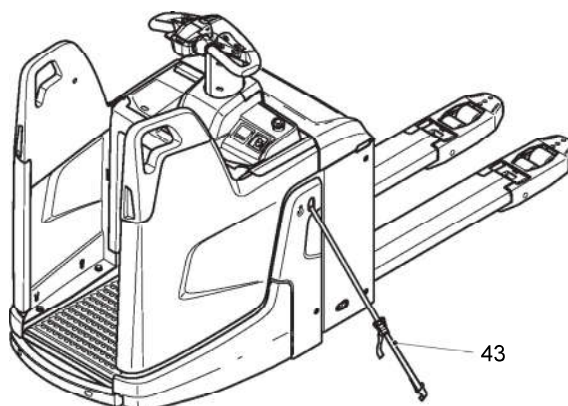
Tools and Material Required

- Lashing straps

Procedure

- Attach the lashing straps (43) to the industrial truck and the transport vehicle and tension sufficiently.

The truck can now be transported.



1.4.2 Removing the battery from the side

⚠ CAUTION!

Trapping hazard

Trapping hazard when removing and installing the battery.

- ▶ When removing and installing the battery do not put your hands between the battery and the chassis.

Removing the battery

Requirements

- The truck is parked securely, see page 86.
- Battery is exposed, see page 53.

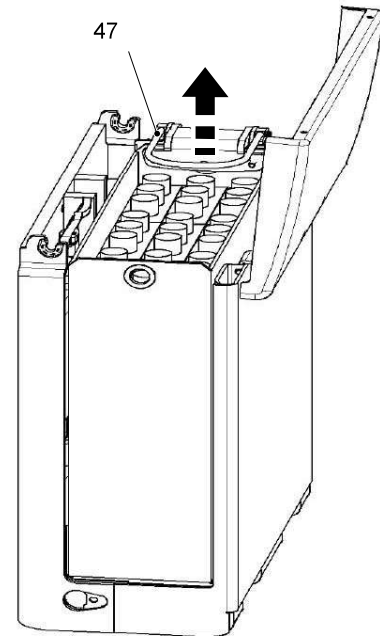
Tools and Material Required

- Battery replacement station/trolley

Procedure

- Disconnect the battery connector (49) from the truck connector.
 - Undo the battery latch (47).
 - Move the battery replacement station/trolley up to the side of the truck.
 - Turn the battery latch as far as the stop.
- ➔ Fully turning the bar moves the battery by approx. 30 mm.
- Carefully push the battery off the truck onto the battery replacement station/trolley.

The battery has now been removed.



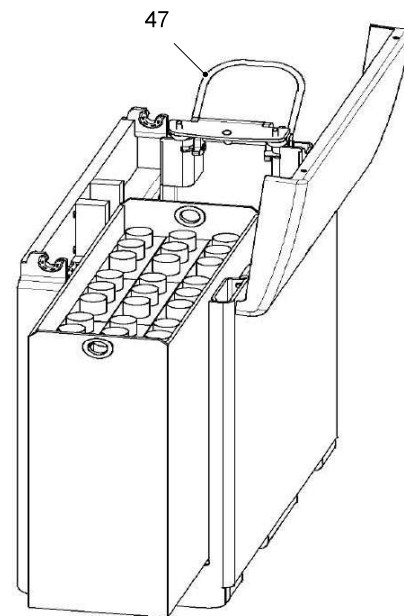
Installing the battery

Requirements

- The truck is parked securely, see page 86.
- Battery compartment is freely accessible.

Procedure

- Place the battery cable on the tray so that it cannot be severed when the battery is inserted.
- Ensure that the battery is installed and connected correctly
- Move the battery replacement station/trolley up to the side of the truck.
- Insert the battery.
- Press to return the battery latch to its original position and ensure the battery is locked securely.
- Attach the battery connector and the truck connector.
- Close the battery panel.



The following hazards can arise in the event of improper use:

- Physical damage:
Mechanical damage may lead to problems including falling or deformation of the lithium-ion battery due to pressure.
Mechanical damage includes cracks, breaks, splinters or holes in the battery housing. This type of damage can cause a short circuit inside the lithium-ion battery.
- Short circuits:
Short circuits may be caused by connecting the two battery terminals (e.g. battery immersed in water).
- Temperature effects:
High temperatures caused by, for example, sunlight or storage in warm locations (e.g. close to ovens) can cause premature ageing and damage to the lithium-ion battery.

Safe places for storing batteries until the manufacturer's customer service department arrives on site must satisfy the following criteria:

- Do not store in places often frequented by personnel.
- Do not store in places where valuable objects (e.g.cars) are stored.
- A carbon dioxide extinguisher (CO₂) must be provided on site.
- There should be no fire or smoke detectors in the vicinity in order to ensure that an automatic fire detection system is activated only in the event of actual danger (e.g. naked flames).
- Small amounts of discharge from a single lithium-ion battery are not critical to the environment. Above-average natural ventilation is required in this case.
- No ventilation intake pipes should be in the vicinity, as discharged content could spread within a building.

Examples of where to store a non-functional lithium-ion battery:

- Roofed outdoor position
- Ventilated container
- Covered box with pressure and smoke discharge option

2.2.2 Storing the battery

NOTICE

Damage to the lithium-ion battery due to discharge

If the lithium-ion battery is not used for a long period of time, it can become damaged through discharge.

- ▶ Fully charge the battery before extended downtimes.
 - ▶ To ensure a long service life of the lithium-ion battery, it must be fully charged every 4 weeks when not in use.
-

2.2.3 Instructions for disposal

NOTICE

Lithium-ion batteries must be disposed of in accordance with the relevant national environmental protection regulations.

- ▶ For lithium-ion battery disposal, contact the manufacturer's customer service department.
-

NOTICE

Intermediate charging of the lithium-ion battery

Intermediate charging of the lithium-ion battery is possible, i.e. a battery that is not fully discharged can be charged or partially charged at any time.

- ▶ The lithium-ion battery should be fully charged before use.
- ▶ To ensure reliable operation of the lithium-ion battery, it must be fully charged at least every 4 weeks with frequent intermediate charging.
- ▶ Turn off the battery charger before disconnecting the lithium-ion battery from the charger.



If the battery is fully discharged or if the battery temperature is below the permissible level, the battery will not charge. Fully discharged batteries cannot be charged by the user (faulty). Contact the manufacturer's customer service department.

NOTICE

Battery damage

The battery, charger (charge characteristics) and battery parameters must match each other, otherwise damage may result.

3 Starting up the truck

3.1 Checks and Operations to Be Performed Before Starting Daily Work

WARNING!

Damage and other truck or attachment (optional equipment) defects can result in accidents.

If damage or other truck defects are discovered during the following checks, the truck must be taken out of service until it has been repaired.

- ▶ Report any defects immediately to your supervisor.
- ▶ Mark the defective truck and take it out of service.
- ▶ Do not return the truck to service until you have identified and rectified the fault.

Inspection before daily operation

Procedure

- Check the whole of the outside of the truck for signs of damage and leaks. Damaged hoses must be replaced immediately.
- Check that the battery is securely mounted and that the cable connections are free of damage and firmly secured.
- Check that the battery connector is secure.
- Check the load handler for visible signs of damage such as cracks, bent or severely worn forks.
- Check the drive wheel and load wheels for damage.
- Check the markings and labels for completeness and legibility, see page 35.
- Check the protective mesh (○) and the attachment are secure and damage-free.
- Ensure that the drive panels and covers are secure and check for damage.
- Check that the swivelling tiller (damper) reverts back to its normal position.
- Check that the controls automatically return to the neutral position after actuation.

4.2 How to act in hazardous situations

⚠ CAUTION!

If the truck is in danger of tipping over or falling off a loading ramp, proceed as follows:

▶ Abandon the truck.

- When travelling on a loading ramp, avoid steering and fold in the side arms as required to facilitate leaving the truck if it tips over.

4.3 Emergency Disconnect

⚠ CAUTION!

Applying maximum braking can result in accidents

Applying the Emergency Disconnect switch during travel will cause the truck to decelerate to a halt at maximum force. This may cause the load to slide off the load handler. There is a higher risk of accidents and injury.

- ▶ Do not use the Emergency Disconnect switch as a service brake.
 - ▶ Use the Emergency Disconnect switch during travel only in emergencies.
-

⚠ CAUTION!

Faulty or non-accessible Emergency Disconnect switches can cause accidents

A faulty or non-accessible Emergency Disconnect switch can cause accidents. In dangerous situations the operator cannot bring the truck to a halt in time by applying the Emergency Disconnect switch.

- ▶ The operation of the Emergency Disconnect switch must not be affected by any objects placed in its way.
 - ▶ Report any defects on the Emergency Disconnect switch immediately to your supervisor.
 - ▶ Mark defective truck and take out of service.
 - ▶ Do not return the industrial truck to service until you have identified and rectified the fault.
-

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4.8 Steering

Procedure

- Swivel or rotate the swivelling tiller (8) or smartPILOT (21) to the left or to the right.

The truck is steered in the required direction.

4.9 Brakes

⚠ CAUTION!

- ▶ In hazardous situations, swing the tiller to the brake position or press the emergency disconnect switch.
-

The brake pattern of the truck depends largely on the travel conditions and the load. The driver must take this into account when driving the truck.

The truck can brake in different ways:

- with inversion braking (travel switch reverse)
- with the regenerative brake (coasting brake).
- with the stop button with fixed operator platforms (○) (service brake),
- with the emergency disconnect switch
(Press only in an emergency, as damage to the drive wheel may occur).
- with the tiller in braking zone 'B' (folding operator platform only).

4.11.2 Transporting a load

Requirements

- Load raised correctly.
- Good ground conditions.

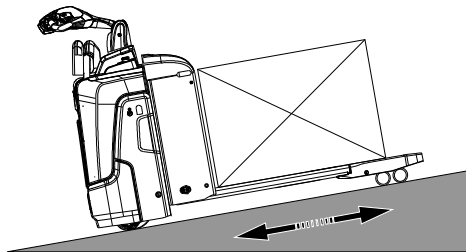
Procedure

- Accelerate and decelerate with care.
- Adapt your travel speed to the conditions of the travel paths and the load you are transporting.
- Travel at a constant speed.
- Be prepared to brake at all times:
 - Brake gently in normal circumstances.
 - Only stop abruptly in hazardous situations.
- Watch out for other traffic at crossings and passageways.
- Always travel with a lookout at blind spots.
- Do not travel across or at an angle on inclines. Do not turn on slopes or inclines.

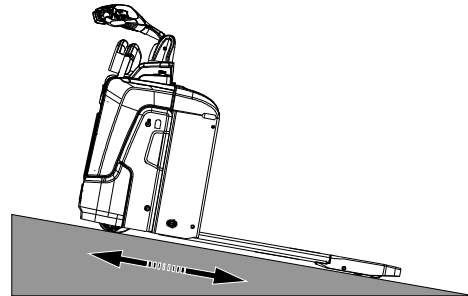


The travel direction when negotiating slopes and inclines is dependent on whether the truck is laden or unladen and whether the truck is in pedestrian mode or rider mode (see following figures).

Pedestrian mode - folding operator platform

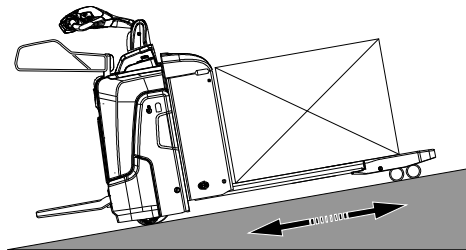


Travelling laden: The load must be transported on the upslope.

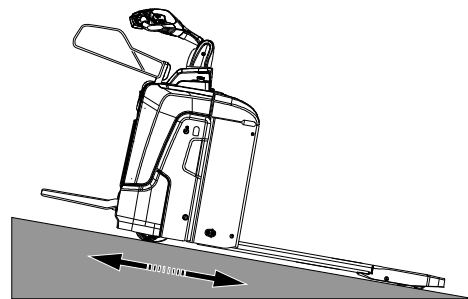


Travelling unladen: The load handler can be oriented towards the downslope.

Rider mode - folding operator platform:






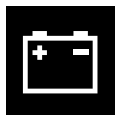
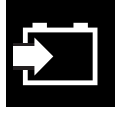
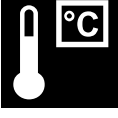
Travelling laden: The load must be transported on the upslope.



Travelling unladen: The load handler can be oriented towards the downslope.

7.1.3 Symbols in the display

Any number of pictograms can be displayed in the pictogram field (93). Which pictograms are shown in the pictogram field depends on the operating and truck status.

Symbol	Meaning	Colour	Function
	Stop notice	Red	Truck malfunction detected. – Lifting, lowering and travel functions deactivated.
	Warning	Yellow	Operating error
		Red	Truck malfunction detected – Lifting, lowering and/or travel functions reduced
	Eco mode (○)	Green	Energy-saving travel program
	Battery indicator, low residual capacity	Yellow	Battery capacity $\leq 30\%$ for wet-cell battery and lithium-ion batteries; battery capacity $\leq 50\%$ for maintenance-free batteries – Charge the battery soon.
		Red	Battery capacity $\leq 20\%$ for wet-cell battery and lithium-ion batteries; battery capacity $\leq 40\%$ for maintenance-free batteries – Charge the battery immediately.
	Charging	Green	Battery charge display (on-board charger only): – Flashing: Charging in progress – Steady light: Charging complete
		Red	Charging interrupted
	Overtemperature	Yellow	Overtemperature detected – Lifting, lowering and travel functions reduced
		Red	Overtemperature detected – Lifting, lowering and travel functions deactivated

7.5.5 Deleting an access code

Requirements

- The truck is switched on, see page 133.

Procedure

- Press the key below the "Settings" symbol (98).
- Press the key below the "Edit access code" symbol (104).

The set-up code is requested.

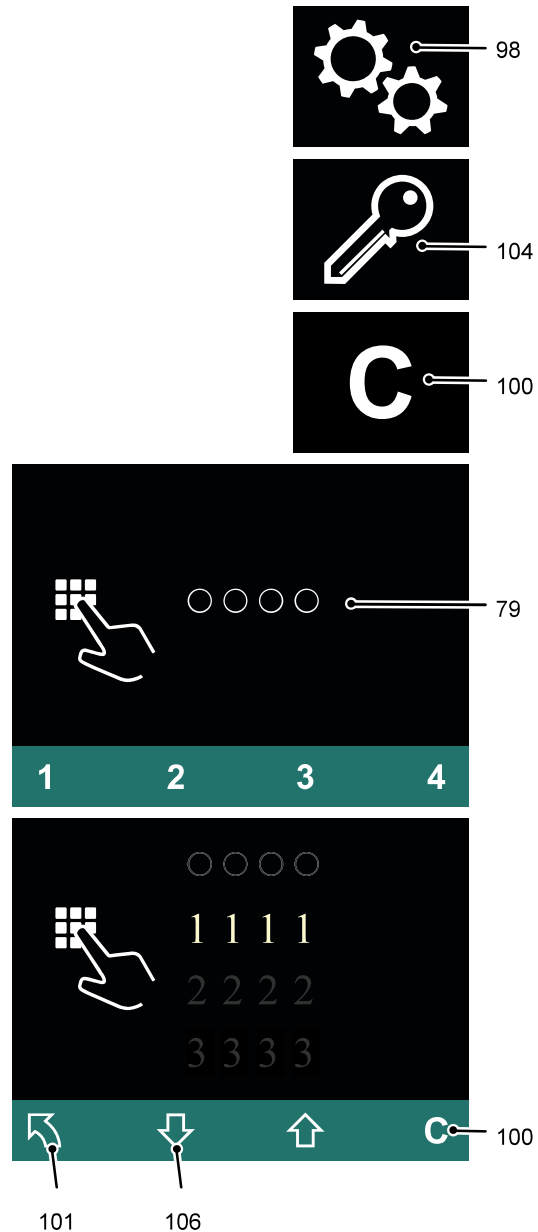
- Enter the set-up code using the keys below the display unit (79).

All the access codes are displayed.

- Select the access code to be deleted using the key below the "Down selection" symbol (106).
- Press the key below the "Delete" symbol (100).

The access code has been deleted.

- To return to the main menu, press the key below the "Back" symbol (101).



7.7.5 Deleting transponders

Requirements

- The truck is switched on, see page 138.

Procedure

- Press the key below the "Settings" symbol (98).
- Press the key below the "Edit transponder" symbol (104).

The set-up transponder is requested.

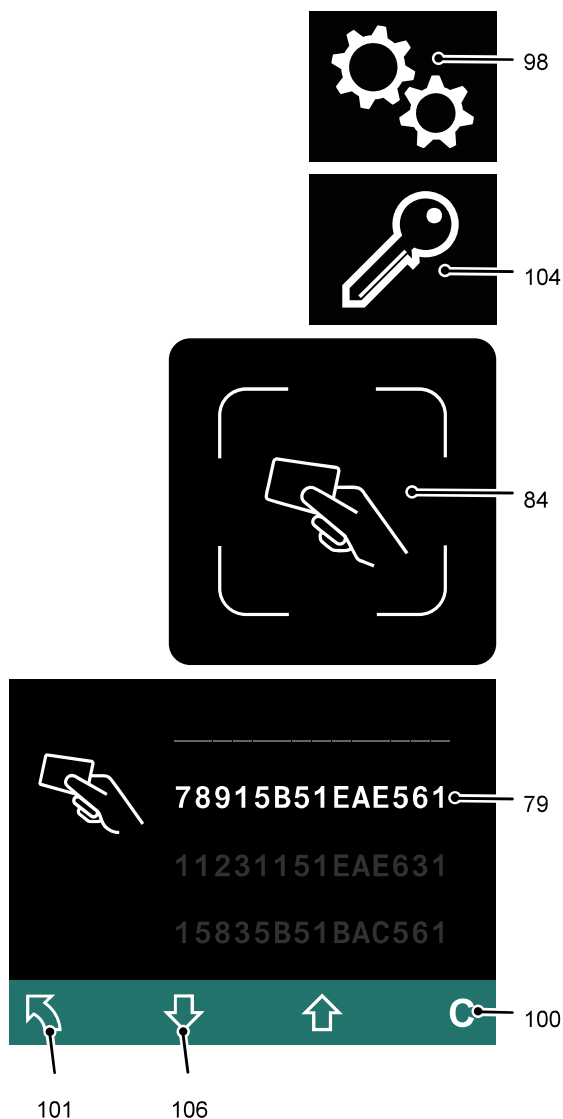
- Place the set-up transponder on the transponder reader (84).

All transponder codes are shown on the display unit (79).

- Select the transponder code to be deleted using the key below the "Down selection" symbol (106).
- Press the key below the "Delete" symbol (100).

The transponder has been deleted.

- To return to the main menu, press the key below the "Back" symbol (101).



⚠ WARNING!

Improper handling of oils can be hazardous

Oils (chain spray / hydraulic oil) are flammable and poisonous.

- ▶ Dispose of used oils in accordance with regulations. Store used oil safely until it can be disposed of in accordance with regulations.
 - ▶ Do not spill oil.
 - ▶ Spilled oils must be removed immediately with an appropriate bonding agent.
 - ▶ The mixture consisting of the bonding agent and oil must be disposed of in accordance with regulations.
 - ▶ Observe national regulations when handling oils.
 - ▶ Wear safety gloves when handling oils.
 - ▶ Prevent oil from coming into contact with hot motor parts.
 - ▶ Do not smoke when handling oil.
 - ▶ Avoid contact and digestion. If you swallow oil do not induce vomiting but seek medical assistance immediately.
 - ▶ Seek fresh air after breathing in oil fumes or vapours.
 - ▶ If oil has come into contact with your skin, rinse your skin with water.
 - ▶ If oil has come into contact with your eyes, rinse them with water and seek medical assistance immediately.
 - ▶ Replace oil-soaked clothing and shoes immediately.
-

⚠ CAUTION!

Consumables and used parts are an environmental hazard

Used parts and consumables must be disposed of in accordance with the applicable environmental-protection regulations. Oil changes should be carried out by the manufacturer's customer service department, whose staff are specially trained for this task.

- ▶ Note the safety regulations when handling these materials.
-



The wheel nuts on the drive wheel must be retightened in accordance with the maintenance intervals indicated in the maintenance checklist, see page 169.

Tightening the wheels nuts

Requirements

- Truck prepared for maintenance and repair work, see page 154.

Tools and Material Required

- Torque wrench

Procedure

- Position the drive wheel (118) perpendicular to the longitudinal axis of the truck.
- Remove the front panel, see page 155.
- Trucks with fixed operator platform: Remove the operator platform.
- Tighten all wheel nuts (119) using the torque wrench through the opening (116) in the chassis.

To do this, tighten the wheel nuts in the indicated order

- initially to 10 Nm
- then to 150 Nm.

The wheel nuts are tightened.

2 Maintenance Contents ERE 120 mechL, fPL

Issued on: 2019-11-13 08:00

2.1 Owner

To be performed every 50 service hours, but at least once a week.

2.1.1 Maintenance contents

2.1.1.1 Standard equipment

Brakes
Test the function of the brakes
Hydraulic operations
Correct the hydraulic oil level.
Steering
Test the tiller return function.

2.2.3 Maintenance parts

The manufacturer recommends the replacement of the following maintenance parts at the specified intervals.

2.2.3.1 Standard equipment

maintenance part	service hours	months
Hydraulic oil	2000	12
Hydraulic system - breather filter	2000	12
Transmission oil	10000	
Flat belt and 4x mounting screws	2000	12

2.2.3.2 Optional equipment

Cold-store application

maintenance part	service hours	months
Hydraulic oil	1000	12
Hydraulic oil additive	1000	12

Automatic crawl speed

Travel

Sensors/switches are secure and function correctly and for damage

On-board charger 35A

Battery charger

The mains plug and mains cable for damage

The function of the fan and for damage

The secure seating of the cables and electrical connections and for damage

Lead-acid battery, international

Power supply

The secure seating of the battery, battery cables and cell connectors and for damage

The presence of safety labels are present and for damage

Lead-acid battery

Power supply

The secure seating of the battery, battery cables and cell connectors and for damage

4.2.2.2 Optional equipment

Standard on-board charger

Battery charger

The mains plug and mains cable for damage

The secure seating of the cables and electrical connections and for damage

Electrolyte circulation

Power supply

The function of the hose connections and pump

Aquamatik

Power supply

The function of the Aquamatik plug, hose connections and float and for leaks

The function of the flow indicator and for leaks

Load backrest

Hydraulic operations

Proper securing of the attachment to the truck and the load-bearing components for secure fit and damage

Battery refill system

Power supply

The function of the battery refill system and for leaks

Lateral battery removal

Power supply

The function of the battery latch and battery attachment and for damage

Shock sensor / data recorder

Electrical system

The shock sensor/data recorder is secure and for damage

Access module

Electrical system

Access module is secure and functions correctly and for damage

Entry skids/rollers

Hydraulic operations

The function of entry skids or entry rollers and for damage and wear

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