



MANUAL

Prins Tiger XXL-E

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1. Foreword

1.1 Models in this manual

Series	Lifting capacity kg (load centre 500mm)
1.0	1000
1.2	1200

1.2 About This Manual

This manual contains essential information for its correct use and maintenance. Please read this manual carefully, even if you are already familiar with our forklift trucks, as it contains information that is only intended for this series of trucks.

This manual is based on a standard truck model. If you have any questions about other models, please contact the service center.

The manual uses the units of measurement of the International System. On some versions, the display of certain detected values (e.g. load weight, distance travelled, and vehicle speed) can be set to British units on the instrument panel. To check whether the forklift allows this, contact an Administrator or the Service Center.

Service Centre means a service centre authorised by the manufacturer of the forklift.

This guide is divided into five major chapters:

The **INTRODUCTION** provides general information about this manual and the proper use of the counterbalance forklift.

The **OVERVIEW** contains information about pictures, labels and important features of the truck, largely related to the safety of the user.

OPERATION explains how to use and inspect the forklift. **SELF-MAINTENANCE** covers how to perform forklift self-maintenance, from periodic weekly maintenance to troubleshooting.

TECHNICAL DATA contains useful information about the truck's characteristics, such as dimensions and weight, plus information about the service intervals applied by a specialist service technician to keep your truck running at peak efficiency.

In addition to this manual, please read the separate publication entitled **Safe Use Guide**. This manual contains important information on the safe use of forklift trucks.

We are constantly developing our products. Therefore, we reserve the right to make changes at any time without notice. Illustrations may differ from the actual version. Some options may only be available for certain versions of the forklift. Some functions may be set differently than the standard functions described in this manual. Consult the service center for this.

2. Safe use

2.1 Before Use

- **Please read the User Manual and the Safe Operation Manual carefully.** This allows you to get to know your truck completely and you are able to use it correctly and safely. Proper use of a new truck improves performance and extends its service life. Drive extra carefully if you are new to a new truck. In addition to the standard operating procedures, please note the following safety aspects.
- **Make sure you acquire an in-depth knowledge of your forklift.** Please read the owner's manual carefully before using the truck. Get to know the operation and components of the truck. Get to know the safety features and accessories and know their limitations and precautions. Read the warning labels on the truck.
- **Familiarize yourself with the guidelines for safe use and maintenance.** Make sure you are aware of the traffic rules on the work site and comply with these rules. Ask the supervisor of the work site about the special precautions for the work.
- **Wear appropriate clothing when using the truck.** The wrong clothing can make it more difficult to use the truck and can even lead to accidents. Always wear appropriate clothing for smoother operation.
- **Keep away from live power lines.** Make sure you know where the electricity cables are inside and outside and keep enough distance.
- **Make sure that the checks and planned maintenance are carried out.** This prevents sudden breakdowns and improves work efficiency. This saves you money and creates safe working conditions.
- **Avoid tilting the mast forward when the forks are up with a load.** In the worst case, the truck can tip over due to the low stability, because the center of gravity has been moved forward.
- **Never attempt to ride or turn with a load on the forks when they are up.** Driving and turning when the forks are up can affect stability and cause the forklift to tip over. When riding, maintain a fork height of 10-20 cm (6-8 inches) above the ground.
- **Avoid overloading and uneven loading.** Overloading or an unbalanced load is dangerous. If the centre of gravity is not evenly distributed, the heaviest side of the load must be at the fork/welding rack, even if the load is lighter than the specifications on the identification plate. The heaviest part of the load should be closest to the forks with the lighter items on top.
- **Stop, inspect, and repair the extractor immediately if you hear an abnormal sound or notice anything unusual.**
- **Use only the recommended types of lubricant.** Low-quality lubricant will shorten the service life.

- **Never attempt to remove or modify any part.** Contact the service center.
- **When washing the truck, be careful not to let the engine or its electrical components come into direct contact with water.** If the engine or electrical components come into direct contact with water, the forklift may not operate properly or may malfunction. If the truck needs to be washed, cover electrical parts with a panel or insulating material to prevent them from getting wet.
- **Do not make any modifications to the electrical circuit.** Any attempt to do so may impair the safety and operation of the built-in forklift and cause a malfunction or accident. Please contact the service center if changes are necessary. Install an anti-static tire for trucks with wheels without marking.
- **Keep open flames away during the battery charging procedure.** Combustible gas is produced during charging. Charge in a well-ventilated place, away from open flames.

2.2 Starting the forklift

Before starting the truck, check that:

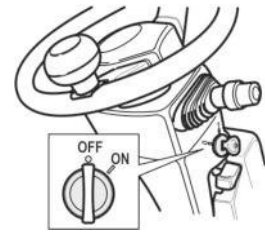
- The battery cover is closed.
- Doors or security gates are closed.
- You are seated correctly on the seat with the seat belt fastened.

Ignition key

Insert the key into the socket with the teeth facing up.

OFF: Truck stopped. In this position, you can insert and remove the key.

ON: Truck is ready to start. Is located to the right of the OFF position.



2.3 Emergency stop

In emergency situations where the truck needs to be stopped immediately, you must press the brake pedal all the way down. Disconnect the battery plug in case of service brake failure.

2.4 Emergency stop switch

In an emergency situation where the power supply needs to be interrupted (such as when flames or smoke are coming from the truck), stop the truck and disconnect the battery plug.

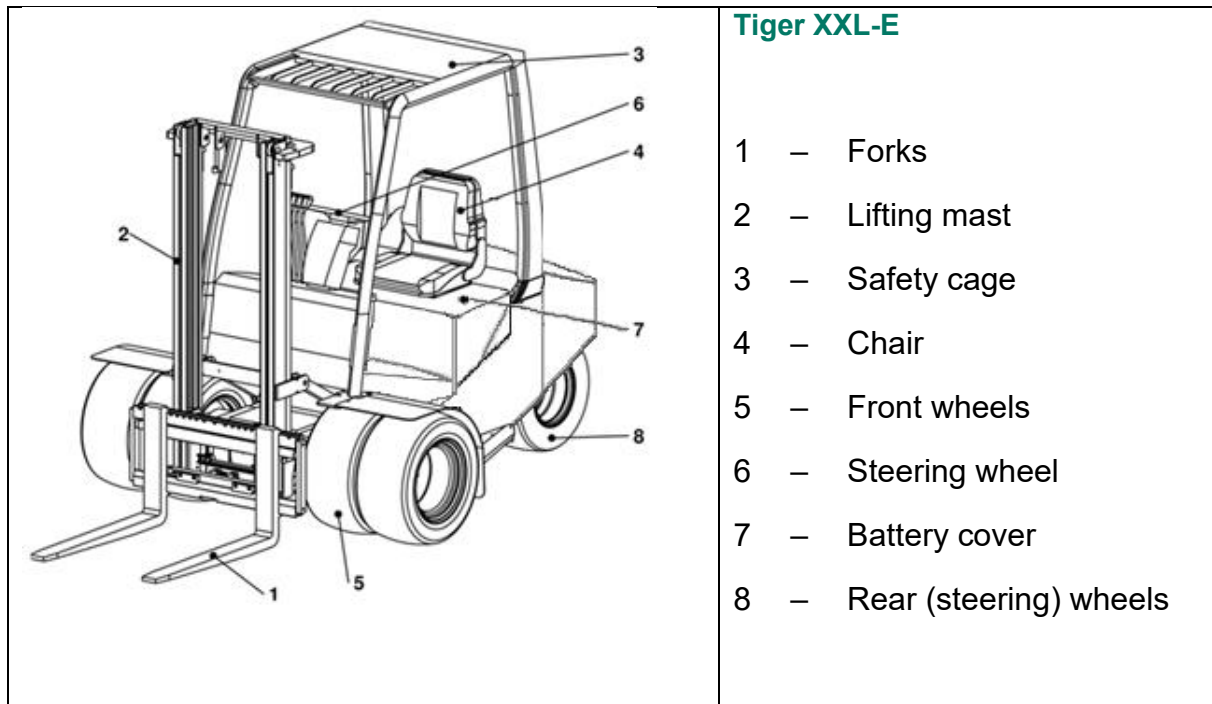
2.5 Before Charging the Battery

CAUTION!

- Park the truck in the designated loading area. Follow the procedures in the Safe Use Guide.
- Switch off the forklift before loading and never start or operate the truck while loading.
- To charge the battery, follow the procedures in the Safe Use Guide. Read any additional instructions from the battery manufacturer

3. Overview

3.1 Truck Parts



3.2 Mini levers

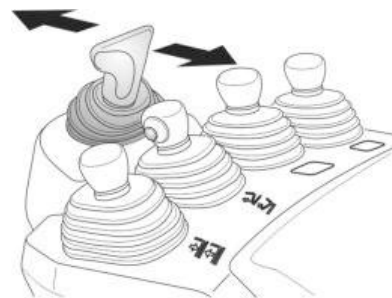
Direction of travel control

Use the gear selector to change the direction of travel. change between forward and backward.

Forward: Push forward

Reversing: Pull backward

The neutral position: is in the middle between the forward and backward positions.

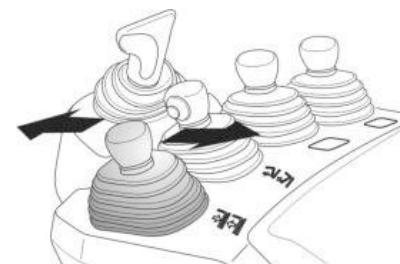


Lift control

Used to lift and lower the forks
. The tilt of the lever controls the speed.

Lift: Pull the lever backward

Descend: Push the lever forward



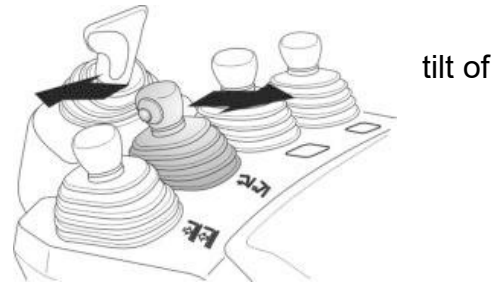
Tilt control

Used to tilt the mast forwards or backwards, the lever regulates the speed.

lever regulates the speed.

Forward: Push the lever forward

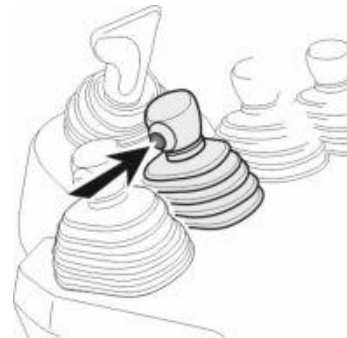
Backward: Pull the lever backward



Fork leveling function

Press the button and tilt the mast forward or to the back. The forks stop in the horizontal position (with the mast in the vertical position)

position). To further tilt the mast, set the lever back to the neutral position and reactivate the lever.

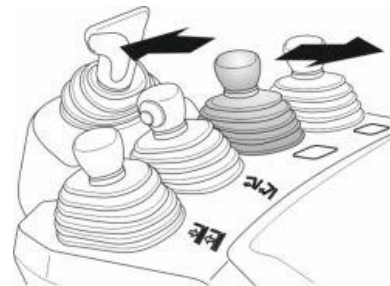


Sideshift control (option)

Used to horizontally attach the forks shift. The angle of the lever controls the speed.

Forks to the right: Pull the lever to Rear

Forks to the left: Push the lever forward



Attachment control (option)

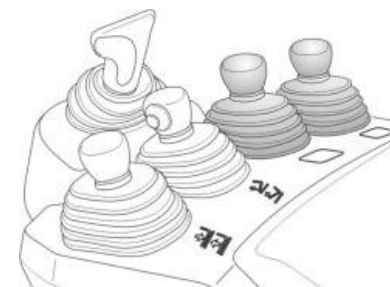
Used to remove any confirmed attachments. Near the trade is labelled, with a graphical representation of the function for attachments related to the movement of the lever.

Function depicted in upper part of the

Tag: push the lever forward

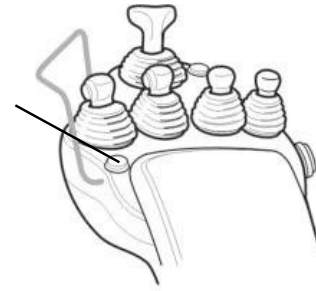
Function shown in lower part of the

Tag: pull the lever backward



Button for the horn (option)

Press the horn button to honk the horn. The Horn is also activated when the truck is



3.3 Multi-function levers (option)

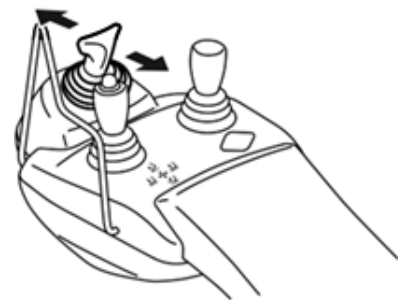
Direction of travel control

Use the gear selector to change the direction of travel. change between forward and backward.

Forward: Push forward

Reversing: Pull backward

The neutral position: is in the middle between the forward and backward positions.



Lift and tilt control

Used to lift or lift the forks descend; is used to prop the mast forward or backwards. By the lever diagonally two movements are at the same time. Adjust the angle of the lever speed.

Lift: Slide the lever to the right

Descend: Slide the lever to the left

Forward: Push the lever forward

Backward: Pull the lever



Attachment control (option)

Used to remove any confirmed attachments. Near the trade is labelled, with a graphical representation of the function for attachments related to the movement of the lever.

Function depicted in upper part of the

Tag: push the lever forward

Function shown in lower part of the

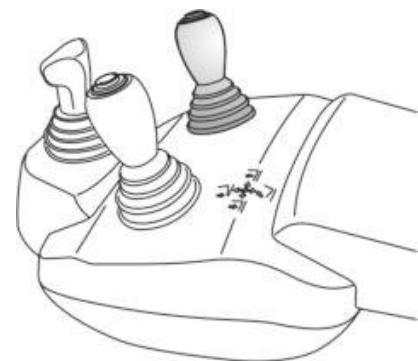
Tag: pull the lever backward

Function shown in the right part of the label:

Slide the lever to the right

Function shown in left part of the label:

Slide the lever to the left

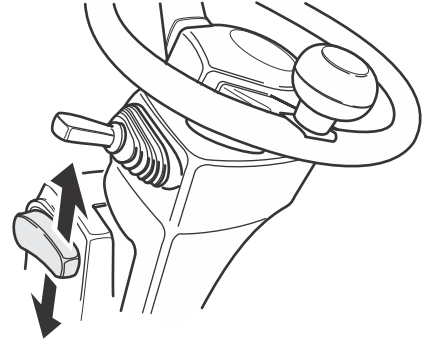


3.4 Steerer tube

Steering column tilt adjustment lever

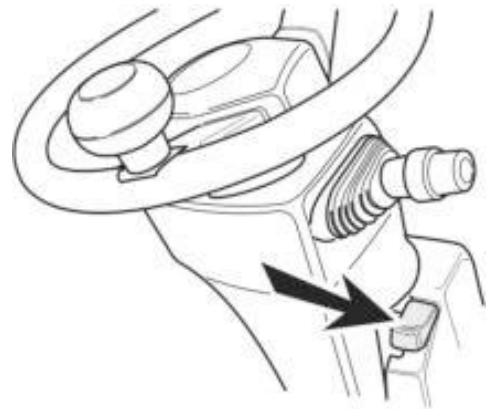
The position of the steering wheel can be moved forward and adjusted by means of the procedure.

1. Pull up on the tilt adjustment lever.
2. Move the steering wheel to the desired position.
3. Push the lever down to lock the steering wheel position.
4. After setup, try moving the steering wheel backwards and forwards to check if it is locked.



Steering column release lever

This lever allows the steering column to move forward can be tilted, but without affecting the position adapted: the column can only be used to return to the original position drawn. The unlock function is useful for operations such as opening the battery cover or When the driver uses the steering column forward without the current change its position. Push the lever to unlock the steering column and move to forward. To put the column back to the original position, pull it just back it until the column is in place .



Turn signal switch (option)

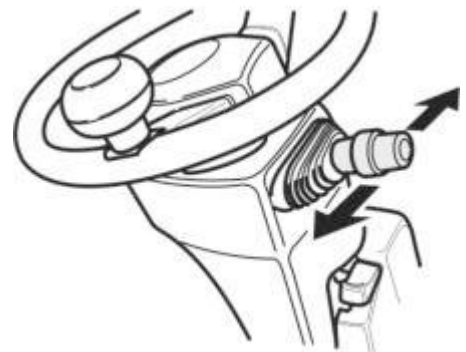
Shift lever to turn on the turn signals Switching.

Turn left: Push the lever forward

Turn right: Pull the lever backwards

The signal switch works regardless of the position of the ignition switch.

The turn signal lever goes automatically returns to the original position when you have made the turn.



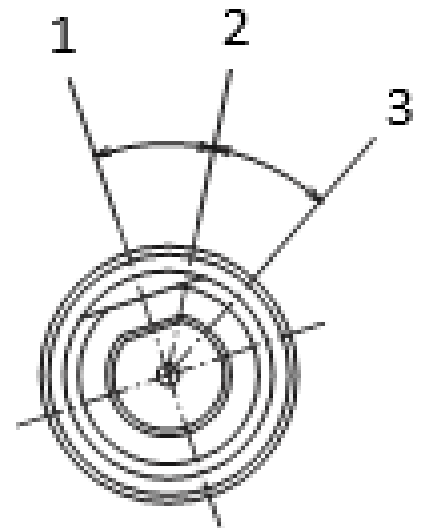
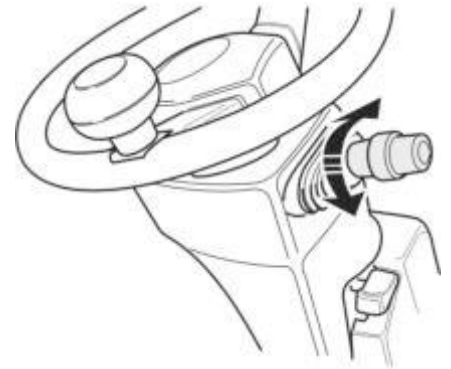
Light switch (option)

This switch has two positions.

1. OFF
2. Position 1
3. Position 2

Below is an indication of which lighting comes on in the different modes.

Lamp name	Position 1	Position 2
Headlights, work lights	Off	On
Rear lights	On	On



Direction control (option)

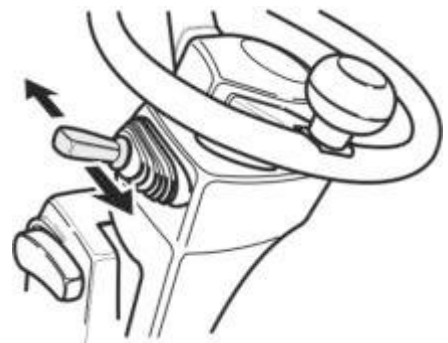
(Only with one accelerator)

Use the gear selector to change the direction of travel.
change between forward and backward.

Forward: Push forward

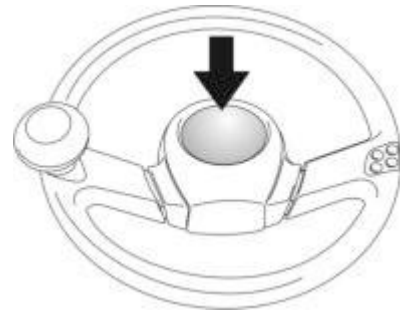
Reversing: Pull backward

The neutral position: is in the middle between the Forward and Reverse Positions



Button for the horn

Press the horn button to honk the horn. The horn is also activated when the truck is switched off.

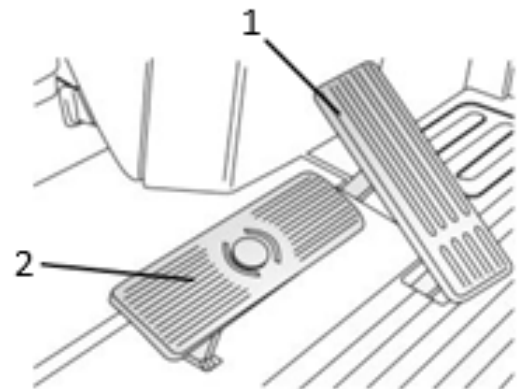


Single accelerator pedal

The driving speed is adjusted by the degree of in which the accelerator pedal is pressed.

Drive: Step on the accelerator (1)

Brakes: Press the brake pedal (2)



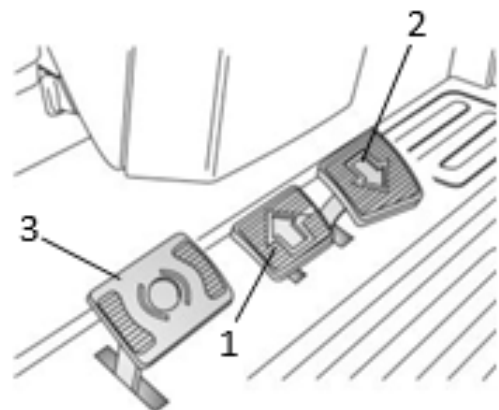
Double accelerator pedal (option)

The driving speed is adjusted by the degree of in which the accelerator pedal is pressed. Through the accelerator pedal, the direction of travel is also selected.

Moving forward: Press the accelerator pedal to the left (1)

Reversing: Press the accelerator pedal on the right (2)

Brakes: Press the brake pedal (3)



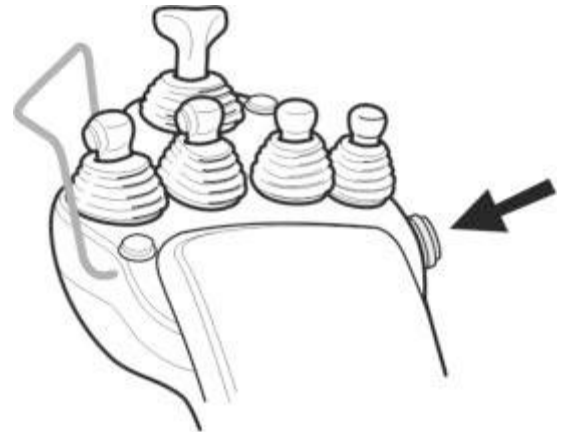
Reverse lever with horn button (option)

Press the button on the reverse lever to release the horn. Use it when reversing.



Quick stop button (option)

If you press the quick stop button, the truck will come to a quick but smooth stop. The button is self-locking and needs to be reset (by turning/pulling it up) before the truck can operate normally.



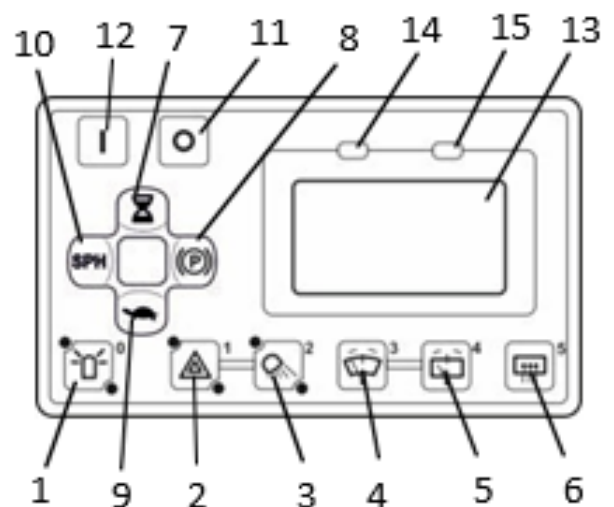
4. Instrument panel

4.1 Control panel

Dashboard

Buttons:

1. Beacon (option)
2. Emergency lights (option)
3. Rear work lights (option)
4. Front windshield wiper (option)
5. Rear wiper (option)
6. Heated rear window (option)
7. Timer
8. Parking brake
9. Reduced speed
10. Power selection
11. Push button OUT
12. Push button OK
13. Display
14. Alarm indicator light (red LED)
15. Operation indicator light (green LED)



Yellow lamp button

Press to turn on the yellow lamp. The top LED is on. Press it again to disable it



Emergency Turn Signal Button

Press the switch to turn the turn on emergency indicators. Press there to turn it off.



Rear work lights button

Press the switch to turn on the rear work lights . Press it again to turn it off



Front windshield wiper button

Press the button (3) as many times as necessary to activate the following state:

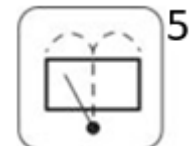
- (1) interval wipes
- (2) High speed
- (3) OFF

Press and hold the button to open the Wiper fluid to activate



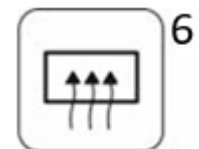
Rear wiper button

Press the switch to turn on the wiper. Switching. Press it again to turn it off. Switching. Hold to remove the wiper.



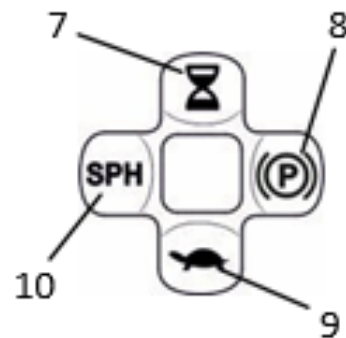
Rear window defroster button

Press the switch to turn the rear window heating. Press there to turn it off. The heating is automatically switched off after 15 minutes



Push button panel

- (7) Hour Gauge/Clock
- (8) Parking brake
- (9) Reduced speed
- (10) Power selection



Parking brake button

Press the switch to apply the parking brake Switching. Press it again to turn it off. Switching.

Automatic parking brake

This function allows the parking brake to be disabled using the following procedure.

1. Turn on the truck. The parking brake indicator light is shown on the display.
2. Press the parking brake button once. The parking brake light flashes to indicate that automatic mode is activated.
3. Direction of travel selected (or pedal depressed in case of double or balanced pedal).
4. Accelerator pedal pressed (in a single-pedal setup).
5. Truck movement enabled.



Push buttons OK - OUT

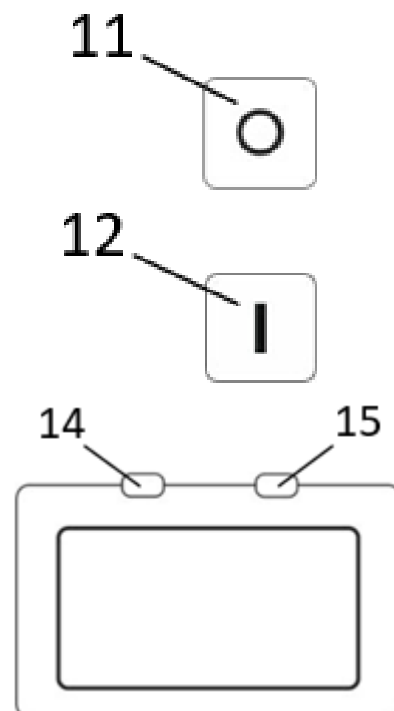
- (11) Push Button OUT
- (12) Push button OK

The OK and OUT buttons are used to navigate through the Driver Menu. The OK button can change the function of the Replace ignition switch on some optional setups.

(14) Alarm light (red LED)

(15) Operating light (green LED)

The alarm light flashes when there is an error . The operating light shows when The truck is switched on.



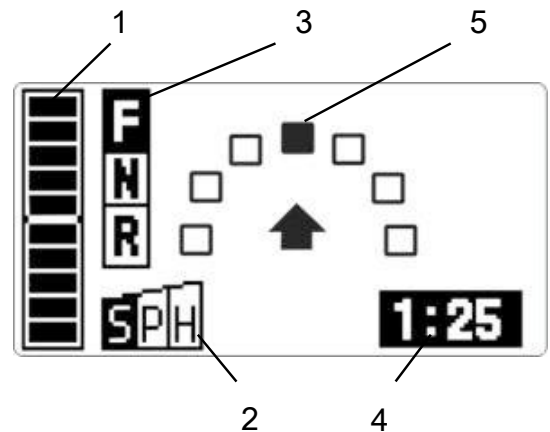
4.2 Indications on the display

Main Screen

The company screen contains various information
While using the truck:

- (1) Battery charge level
- (2) power mode
- (3) Direction of travel
- (4) Time/Date/Timepiece
- (5) Steering direction

The steering direction is displayed only if
the forklift is stationary or travelling at low speed.



Battery charge level

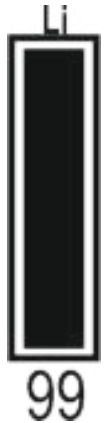
Lead-acid battery charge level

Battery charge level	Battery charge level indicator PB	Alarm light	Buzzer	Driving and lifting speed of the truck
Two bars	Flashes continuously	Flashes briefly	-	Reduced
One bar	Continuous flashing of all indicator segments	Flashes continuously	-	Even lower
No bar	Continuous flashing of all indicator segments	Flashes continuously	Sounds continuous	Loading/unloading functions disabled while driving



Lithium-ion battery charge level

Battery charge level	Battery charge level indicator Li	Alarm light	Buzzer	Driving and lifting speed of the truck
100%	F indicator	-	-	Full
5%	-	Flashes briefly	-	Full
0%	E indicator Flashes continuously	Flashes continuously	Sounds continuous	Reduced speed and performance



Power

Displays the current selected power mode.

Direction of travel

Displays the currently selected direction of travel.

F: Forward

N: Neutral

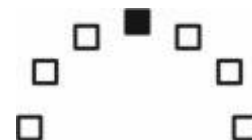
R: Reverse

The direction of travel is also indicated by the direction of travel indicator. An up arrow indicates forward, a down arrow indicates backwards.



Steering direction

This indicator is only visible at low speed. At higher speeds, this is replaced by the speedometer.



Time/date/timepiece

Displays the time (hours and minutes) or the date (day and month) or the timepiece (as set in the DRIVER SETTINGS MENU) again.



Remaining operating time

Displays the estimated remaining working time.

This function is enabled via the button for the timemeter.

This feature may not be available for some truck setups: in this case, the OBT OFF message.



Parking brake indicator light

Indicates that the parking brake is engaged.



Setting low speed indication (option)

Indicates that the low speed setting is active



OPS indicator light

The indicator light will illuminate when the driver is not in the seat. The truck features blocked until the driver is again sit down



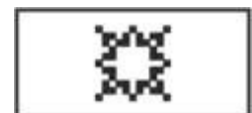
Seat belt recognition indicator light fastened

The indicator light will illuminate when the driver is not seated in the seat and the seat belt is not fastened. The buzzer emits a warning tone. The truck functions are blocked until the fasten the seat belt.



Shock sensor indication (option)

The truck systems have a collision detected. Notify your supervisor.



Safety fence indicator light (option)

Truck functions are blocked until the safety gates are closed correctly.



Multifunction display DX (option)

Tilt indication

The right arrow indicates forward tilt, the left arrow indicates backwards tilt. The tilt angle of the mast is Shown in degrees



Load indication

When the load indicator is activated, the main screen to the load indicator screen switched.

CAUTION

This function should only be used as a reference when loading/unloading and should not be used for used during business transactions or as proof of actual weight.



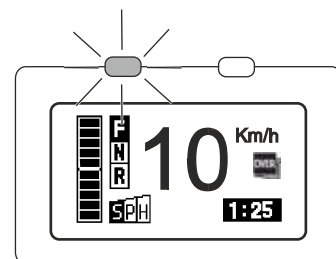
NOTE

- Use this function when driving and handling loads have stopped. The load indicator screen is not displayed while the truck speed is detected.
- Always lift the load to a height of about 500 mm above the ground and place the mast vertically.
- The payload weight is displayed for approximately 3 seconds in units of 0.01 tonnes.
- If the load is less than 100 kg, the indicator will show 0.00 t.
- The accuracy of the load gauge is reduced as the load fluctuates. In this case, an indication will appear with a warning that the reading is inaccurate.

Overload alarm

The administrator can set a value, above which the overload alarm goes off when the operator uses the load indicator. In this case, the buzzer goes off.

On request, the service center can set the alarm to sound automatically when the set value is exceeded. However, the signal can also be given incorrectly with lighter loads, as a result of fluctuations in the load while driving or lifting.



Maximum height limiter indication

If the lifting lever is raised and the forks the maximum position of the height limiter, the forks stop automatically and the buzzer will sound for one second. When the lifting lever is raised to the height at which the forks already reach the maximum position of the height limiter forks do not lift and the buzzer will also sound for a second. Only the administrator can change the settings menu for 'Maximum Height Limiter' (maximum height limiter). If this setting is switched on, the icon of the Maximum height limiter displayed when the truck is started. When the driver tries to set the height limit, the forks do not exceed the set height limit.



Height limiter indication (option)

Indicates that the height limiter function is active. When it flashes, the forks have reached the position in memory



4.3 Alarms

Some errors are generated by wrong actions that occur in the course of starting the truck or using the controls. Block these errors the operation of the truck temporarily and ensure that there is an alarm icon on the display appears. Most of these errors can be solved.

WARNING



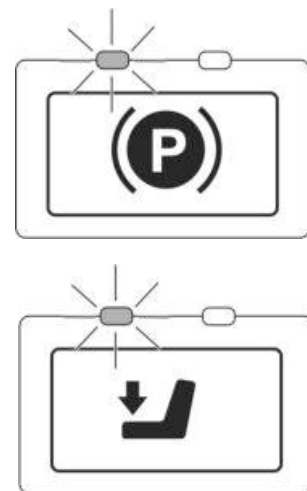
Contact the service center if An error message continues to occur even after the following actions have been taken

Parking brake fault

Attempt to drive the truck while the parking brake was still engaged. Put the brakes on and try again.

OPS error

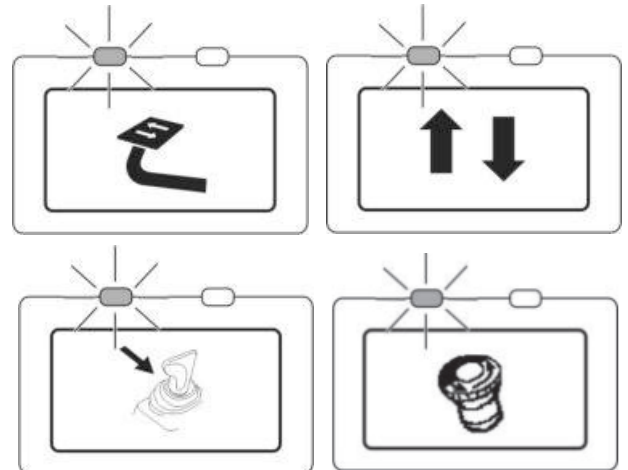
Attempt to drive the truck while the driver was not sitting correctly in the seat. Let it release the accelerator, put all levers back in their neutral position, return to the seat correctly sit down and try again.



Driving errors

One of the following situations has occurred:

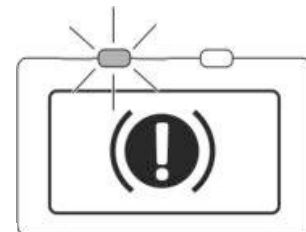
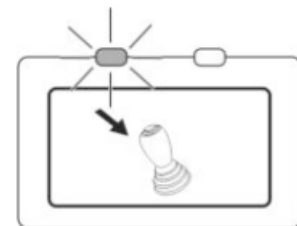
- Accelerator pedal pressed during the starting procedure. Repeat the starting procedure correctly.
- Driver exited the truck with the directional lever (if equipped) engaged. Move the lever to the neutral position.
- Pedals for forward and reverse travel (if present) were pressed at the same time. Press one pedal at a time.
- Emergency stop button locked during the starting procedure. Unlock it. Repeat the starting procedure.



Hef error

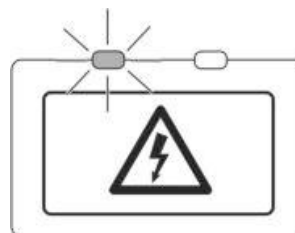
One of the following situations has occurred:

- Load controls used during the starting procedure. Repeat the starting procedure correctly.
- Load controls used while the operator was not seated correctly. Move the controls to neutral, sit correctly on the seat, and try again.



Brake alarm

Low brake fluid level. Contact the service center.



Voltage alarm

Residual voltage in the electrical components of the truck. Wait for the icon to disappear. In the meantime, do not open the battery cover

Overheating alarm

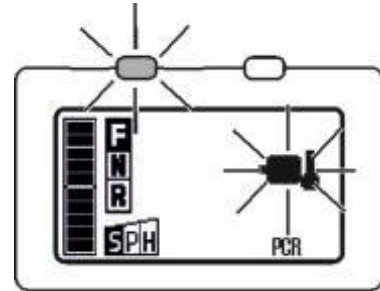
Truck overheating: performance levels are to protect systems and devices protection. If the truck is used further, the truck will be switched off. A Error code indicates the overheated component.

PM: pump motor

DM: drive motor

PCR: pump control

DCR: Drive Control



NOTE

It is advisable to use the truck as stop and park the truck as quickly as possible until the alarm goes out, preferably in a cool place, protected from direct sunlight

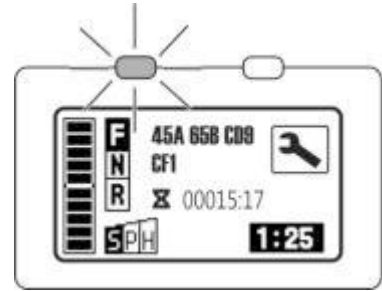
4.4 Lithium battery error codes

Error codes of the lithium battery can be read on the round display on the left side of the dashboard. If any of these codes occur, please contact your service center.

Error code	Error Name	Description
1	Over-voltage(cells)	The voltage of some cells is out of the specified range.
2	Under-voltage(cells)	The voltage of some cells is below the specified range.
3	Over-voltage(battery)	The voltage of battery is out of the specified range.
4	Under-voltage(battery)	The voltage of battery is below the specified range.
5	Over-voltage difference	The voltage difference of cells is out of the specified range.
6	Over-current(discharge)	The discharge current of battery is out of the specified range.
7	Over-current(charge)	The charging current of battery is below the specified range.
8	Over-temperature	The temperature of battery is out of the specified range.
9	Under-temperature	The temperature of battery is below the specified range.
10	Over-temperature difference	The temperature difference in different parts of the battery is out of the specified range.
11	Low SOC	The SOC of the battery is too low.
12	BMS self-check fault	There are some faults in BMS's own hardware.
13	Cells' voltage collection fault	The cells voltage collection fails partially or completely.
14	Temperature collection fault	Module temperature collection fails partially or Completely.
15	Contactor adhesion	Contactor fails to be disconnected due to adhesion failure.
16	Pre-charge failure	The battery fails to perform the pre-charge process during startup and cannot discharge normally.

Unrecoverable error

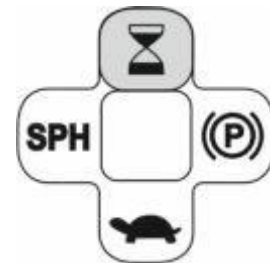
All other notifications, indicated by a alphanumeric code. Turn off the truck and restart: if the message persists, please contact the service center.



4.5 Driver Settings Menu

Menu Timepiece

Press and hold the timemeter button for access the Timer menu. Press the button of the timepiece to determine the sequential display.



Ignition key timemeter ON (KEYON)

Keeps track of the time that the ignition key is switched on.

Timer (LAP)

Keeps track of the time that the ignition key is switched on. Press OK and hold the for at least two seconds to activate the Reset timemeter

Pump timepiece (fork icon)

Tracks the time the pump motor is activated in power mode.

Drive timepiece (gear icon)

Keeps track of the time the drive motors are activated in Power mode or the for regenerative braking.

Timer motors (icon fork and gear)

Keeps track of the time each motor is activated. Used as a reference for the total Truck's operating hours for technical repairs.

Availability time timepiece (seat icon)

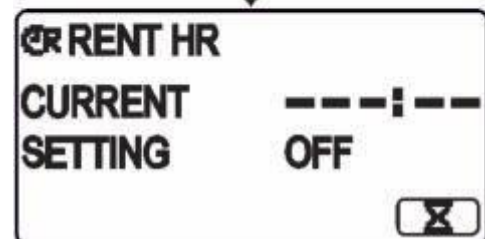
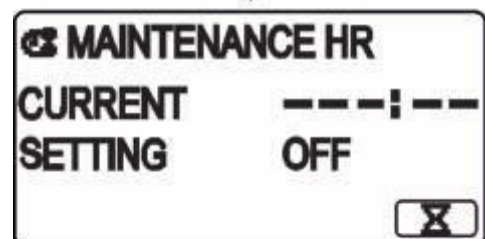
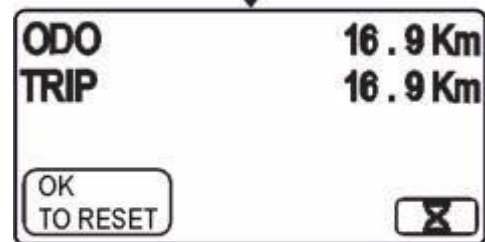
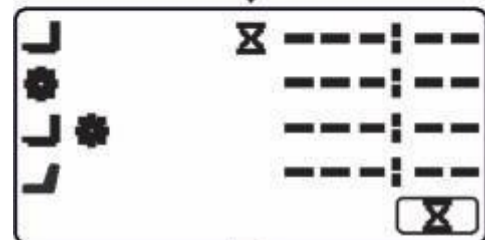
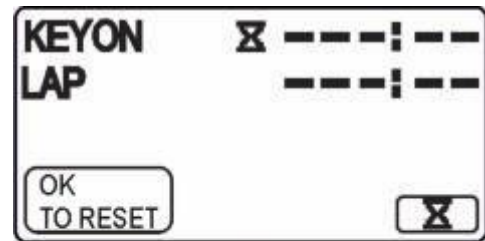
Keeps track of the time the key is set to ON and the driver sits in the seat

Odometer (ODO) (odometer)

Tracks distance traveled

Trip meter (TRIP) (trip meter)

This meter keeps track of the distance traveled and can be reset. Press OK and hold the button for at least two seconds to activate the timemeter.



Planned maintenance timepiece (MAINTENANCE HR)

When this setting is enabled,
the preset interval and time
since last service

Rental Period Timepiece (RENTAL HR)

When this setting is enabled,
the pre-set rental period and the
elapsed time, or alternating between the end
date of the
rental period.

Menu Clock

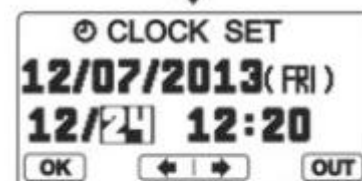
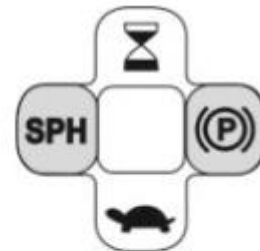
The parking brake selector and
the power value can be increased
or reduced. Press OK to confirm and go
continue with the next value or press OUT
to exit the menu.

The order of the values displayed is:

Date: day/month/year (day of the week)

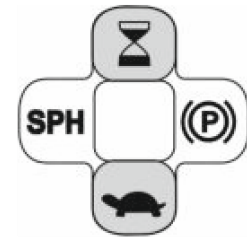
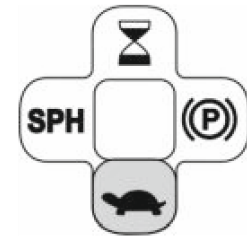
Display 12 h/ 24 h (12 or 24 hour display)

Time: hours/minutes



Drive menu

Press and hold the reduced speed button to access the menu with drive settings. Use the buttons for the hour meter and reduced speed to reduce the desired component. Press OK to confirm or press OUT to change the menu.



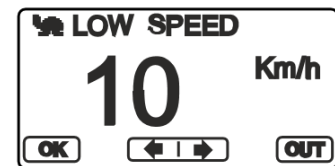
Low speed

This menu is used to set the setting for low speed. With the Clock and power selection buttons the low-speed value can be increased or reduced. Press OK to confirm or press OUT to exit the menu.



Speed alarm

This menu is used to set a sound alarm in as a warning when the speed of the truck a preset value. With the Clock and power selection buttons the speed value can be increased or reduced. Press OK to confirm or press OUT to exit the menu. If the speed is set to more than 50 km/h, the reduced speed function turned off; in that case, "OFF" is displayed.

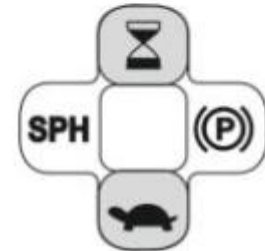
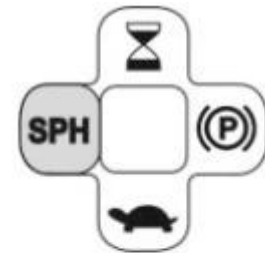


Menu Power Control

This setting can be turned on or off through the service center.

Press and hold the power selection button to access the menu

Asset control. This menu is used to adjust the SPH (custom) power mode for the driving and lifting capacity. The Timer buttons and low speed used to select the desired element. select. Press the OK button to confirm or press OUT to change the menu



Drive power

This menu is used to change the speed and acceleration of the truck.

Lifting capacity

This menu is used to change the speed and acceleration of material transport

The procedure is the same as for the institutions for drive and lifting capacity. With the Clock and power selection buttons the asset value can be increased or reduced. Press the OK button to confirm or press OUT to exit the menu.



Menu settings automatic

height adjustment

To save the height position, go to the Row Settings menu. Use the Clock buttons and ability to adjust the Altitude Settings menu. After your selection, press OK to and go to the institution. The driver must raise the forks to the height he wants to store. The settings screen then displays the compared to the three memories and the current altitude weather. The driver can then choose which memory to overwrite - A, B or C - using the Clock and Power. Press and hold OK for two seconds to see the current altitude in the selected memory.

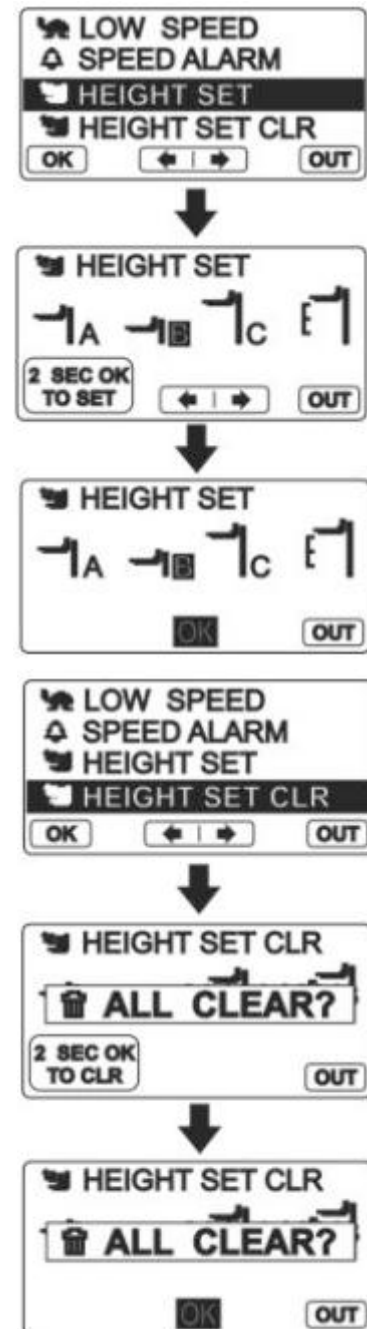
If the memory is overwritten, "OK" will be displayed and the settings screen will appear. Press OUT to close the menu.

To record a height position in the memory, there must be a difference of at least 100 mm (approximate) between the three stored heights.

The three memories can be erased simultaneously

. The cancellation screen will be displayed by selecting the Altitude Settings menu in the Ride Settings menu.

select. Hold OK for at least two seconds to activate the three stored heights. erase. "OK" and the settings screen will be . Press OUT to change the menu close. This procedure will enable the height limiter and the memories of the maximum height limit not cleared.



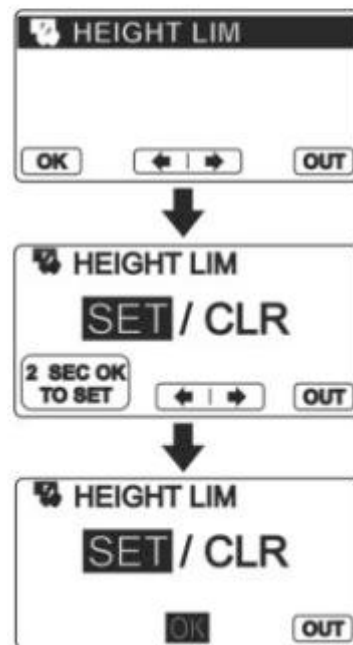
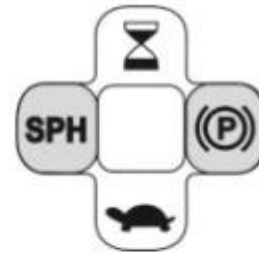
Altitude limiter settings menu (option)

To set the height position, go to the Row Settings menu. Use the buttons Clock and Power to the menu Height limiter selectable. Press after your select OK to confirm and go to the institution.

In the menu, raise the mast to the desired fork height and select "SET" (use the Clock and Power Selection buttons to do this. select) and hold OK for more than two seconds, until "OK" appears, to confirmation that the position has been saved. The height limiter is now active. Press OUT to close the menu.

To reset this, go to the menu Height limiter, select "CLR" (use the Clock and Power Selection buttons to and hold OK for more than two seconds, until "OK" appears, to confirmation that the position has been reset. The height limiter is now disabled until there is new positions are stored. Press OUT to close the menu.

When the desired position is saved and The height limit switch is , the function is active and the Height limit indicator shown on the display. When the driver tries the set height limit forks are blocked and the buzzer goes off. The forks can are lifted above the stored position by turning off the height limiter switch



5. Self-service

5.1 Recommendations for planned maintenance

To avoid breakdowns and accidents, it is important to have certain DIY maintenance work carried out by specially trained personnel. Lack of proper lubrication and service can lead to higher downtime, higher maintenance costs and a shorter life of the truck. Carry out self-maintenance every week or every 40 hours of operation (driving, driving and lifting), whichever occurs first. Record all results and keep track of them for reference. Have any necessary adjustments or replacements made by qualified service personnel or by the service center. The technical assistance tables contain a wide range of parts, not all of which are installed on every forklift model. Therefore, some work is intended as "if the part is present".

Self-maintenance work	
Tires	Checking tire integrity Tightening nuts Check Voltage
Electric fan	Clean filter
Heating fan	Cleaning (dusty environments)
Mast, sideshift, chain	Lubrication
Rear axle (4 wheels)	Lubrication
Hydraulic oil	Checking the level
Lead-acid battery	Demi water when filling <u>AFTER</u> loading.
Windshield wiper fluid	Checking the level

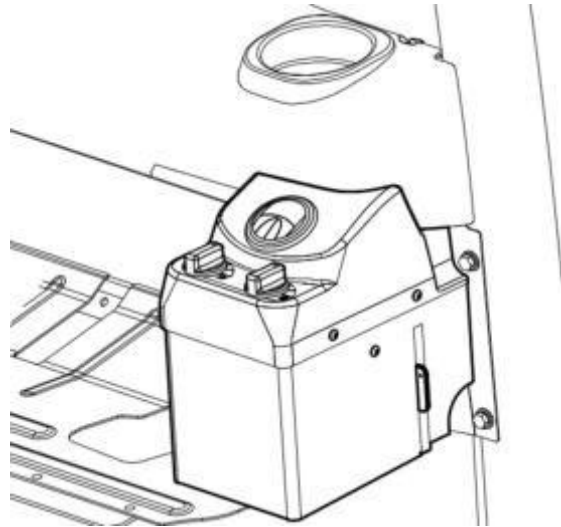
The elements described above must be inspected and lubricated. Replacing lubricants will depend on the amount of contamination and foreign matter they contain. These instructions are subject to change depending on the conditions of the workplace and the truck's equipment: contact the service center if necessary

5.2 Cleaning the heating filter

Pull out the heating filter (1) and clean it with compressed air.

NOTE

Replace the filter before activating the heater.



5.3 Lubricants and fluids

Lubricants and Lubricants Service Details Liquids

Place of application	Quantity	Type
Chassis and mast; Grease Fittings	As needed	Standard Version: Mobilgrease Special or equivalent Cold store version: Esso Beacon 325 or equivalent product
Chain	As needed	Interflon Fin Lube TF, Kluberoil 4UH1-32N, Rexnord Rexnord Respray REXOIL or equivalent product
Hydraulic oil tank	Depending on the height of the mast	Standard version: preferably VG32 DIN51524 HVLP or ISO 11158 L-HV; alternatively VG32 DIN51524 HLP or ISO 11158 L-HM Version for cold rooms: preferably VG15 DIN51524 HVLP or ISO 11158 L-HV; alternatively VG15 DIN51524 HLP or ISO 11158 L-HM Additive: pentaerythritol monooleate; Wladoil Hydraulic Additive or equivalent product
Drive unit	2 x 0.55 l	ATF type, Dexron II or equivalent
Brakes	0.5 l	ATF type, Dexron II or equivalent

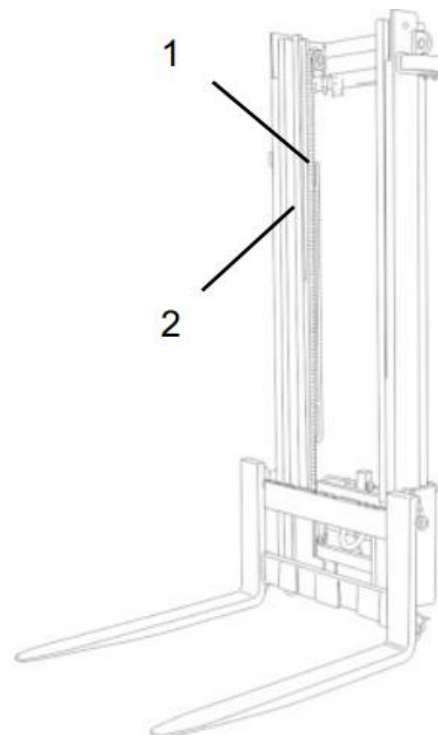
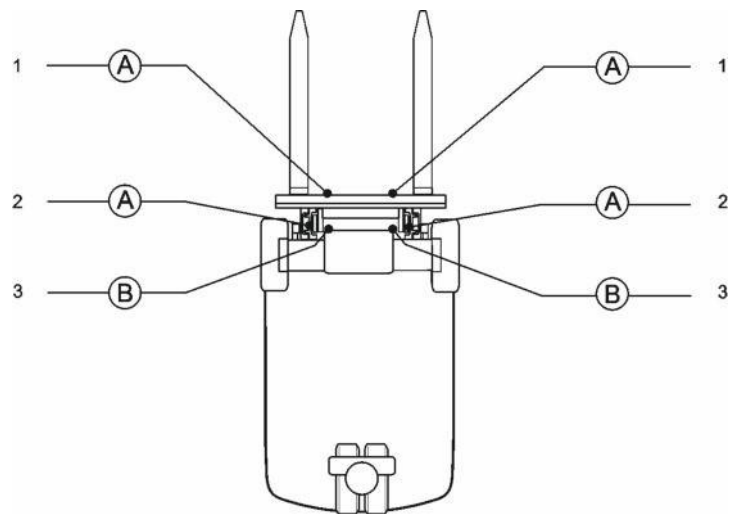
Lead-acid battery	As needed	Distilled or demineralised water
Windshield wiper reservoir Liquid	2 l	Standard version: standard fluid for cars Coldstore version: Windshield wiper fluid for low temperature

5.4 Lubrication

1	Sideshift
2	Pole guides
3	Chain
A	Lubricant
B	Chain spray

Lubrication of the mast

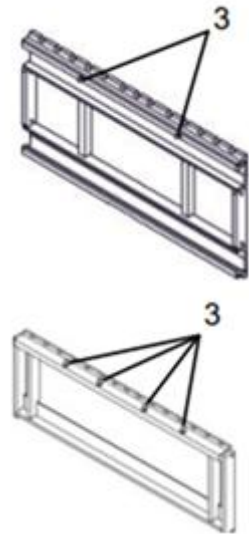
1. Necklaces
2. Conductors



Lubrication of the side-shift

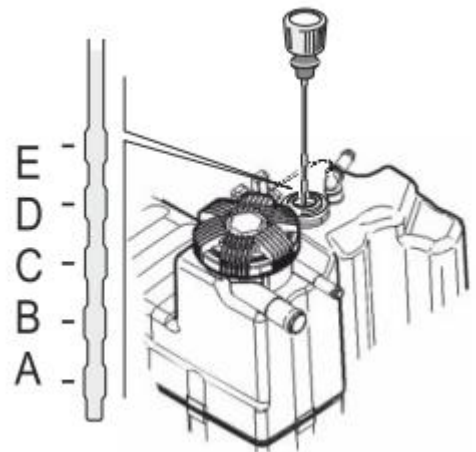
Clean the grease fittings thoroughly before lubricating. After lubrication, wipe away excess lubricant with a cloth.

The number of grease fittings and their location (3) varies depending on the type of mast.



Checking the hydraulic oil level

1. Park the truck on a flat surface, Lower the forks to the ground and switch off the truck.
2. You can access the hydraulic oil reservoir by removing the floor mat and floorboard.
3. Remove the oil cap.
4. Clean the dipstick attached to the oil cap with a clean cloth and place it back in the reservoir.
5. Carefully remove the dipstick and check that the oil reaches the level line of the reference.
6. Top up oil when the level is low. Wipe off any spills or splashes thoroughly.

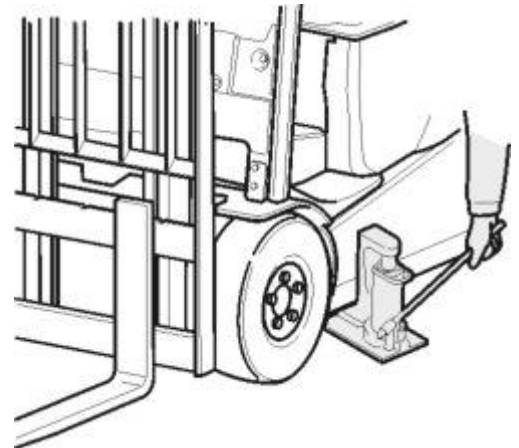


Maximum Mast Height - mm	Leveling Stripe – Highlighted symbol
3000 – 400	A
4300 – 5000	B
5500 – 6000	C
6500 – 7000	D
7500	E

5.5 Replacing wheels

Replacing the front wheels

1. Park the truck on a flat surface.
2. Apply the parking brake and lock the rear wheels.
3. Tilt the mast backwards, raise the forks about 1 meter and place the jack under the chassis, close to the front wheels.
4. Jack the truck up so that the wheels are almost off the ground and loosen the nuts.
5. Jack the truck up so that the wheels are completely detached from the ground. Remove the nuts and wheels.
6. To insert a wheel after the wheel ring has been replaced or repaired, repeat the steps of the removal procedure in reverse order. The nuts should be evenly re-tightened in the order shown.
7. Drive the truck forward and backward 2 or 3 times to check for any loose lug nuts, and tighten again if necessary

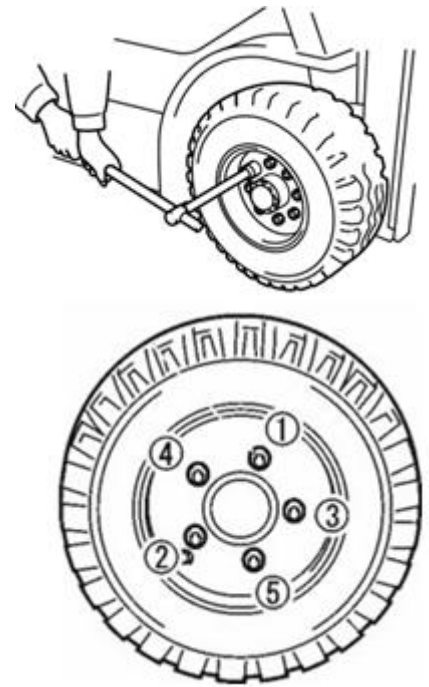


Replacing rear wheels

1. Park the truck on a flat surface. Rotate the rear wheels 90°.
2. Apply the parking brake and lock the front wheels.
3. Place the jack under the chassis near the rear wheels.
4. Jack the truck up so that the wheels are almost off the ground and loosen the nuts.
5. Jack the truck up so that the wheels are completely detached from the ground. Remove the nuts and wheels.
6. To insert a wheel after the wheel ring has been replaced or repaired, repeat the steps of the removal procedure in reverse order. Tighten the lug nuts in the same order as for the front wheels.
7. Drive the truck forward and backward 2 or 3 times to check for any loose lug nuts, and tighten them again if necessary.

5.6 Re-tightening the lug nuts

The nuts should be evenly re-tightened in the order shown. The nuts have to be tightened at 187 Nm.



5.7 Battery Weight

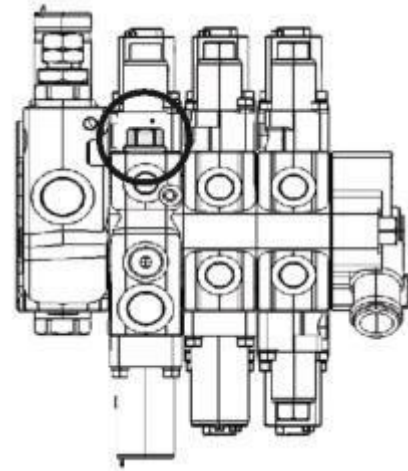
Battery type	Minimum battery weight	Maximum battery weight
Lithium	586	625
Lead acid	900	1050

5.8 Fuse replacement

Position	Application	Voltage - V	Amps - A
Rear compartment F1	Output 1st inverter - standard devices	24	30
Rear compartment F2	Input 2nd inverter - standard devices	48	15
Rear compartment F3(Optional)	Heating	48	40
Rear compartment F4	Main power supply on board	24	10
Rear compartment F5	Horn	48	5
Rear compartment F6	Card Feeding	48	5
Rear compartment F7 (Optional)	Heated seat with air suspension	24	15
Rear compartment fuse	Traction		250
Rear compartment fuse	Lifting		250
Rear compartment fuse	Handlebars		60
Dashboard F11	Nutrition on board	24	10
Dashboard F12 (optional)	Heating fan + taillights	24	7,5
Dashboard F13 (optional)	Additional lights + rear work lights	24	7,5
Dashboard F14 (optional)	24V power supply pc	24	5
Dashboard F15 (optional)	24V power supply	24	5
Dashboard F16 (Optional)	Rear window heating	24	10
Dashboard F17 (optional)	Audio	12	7,5
Dashboard F18 (optional)	12V power supply pc	12	7,5
Dashboard F19 (optional)	12V power supply	12	7,5
Dashboard F20 (optional)	Seat heating	12	7
Dashboard F21 (optional)	Front windshield wiper	24	7,5
Dashboard F22 (optional)	Rear wiper	24	7,5
Dashboard F23 (optional)	Front work lights	24	7,5

5.9 Emergency fork truck lowering function

If there is a malfunction while the forks are have been lifted and cannot be reduced with the controls, this can be done are fixed by the release screw on the direction cover under the battery cover. Then tighten the screw back into the original position.



6. Technical data

6.1 Technical repairs

Regular inspection and maintenance is necessary to keep the forklift in perfect condition and should be carried out by specialized technicians: for more information, please contact the service center. The service tables contain a large number of devices, not all of which are installed on every forklift truck model. Therefore, some service work is intended as "if the part is present".

The service intervals apply under normal use of a standard truck. They are based on the total number of operating hours of the truck, or the months that have passed during the life of the truck; whichever comes first. The total operating hours of the truck are indicated on the odometer.

First 6 weeks - First 250 hours - is only from application to new trucks (whether or not used in multi-shift operation).

Every 6 months - Every 1000 hours

Every 12 months - Every 2000 hours

Every 5 years - Every 10,000 hours

For trucks that are used in multiple shifts, service intervals should be reduced based on the following values:

15% for 2 shifts per day

30% for 3 shifts per day

6.2 Periodically replaceable

Maintenance method

R	Replace
I	Inspection to check the integrity (deformation, cracking, wear, rust, corrosion, leaking, abnormal noise, etc.) and the working condition (if applicable); repair or replace if necessary.
M	Measurement; repair or adjust if required
C	Cleanliness
L	Lubrication
T	Tightening

REPLACEMENT CYCLE Based on the total number of operating hours or months that have elapsed during the life of the truck, whichever occurs earlier	Every 12 months	every 60 months
	Every 2,000 operating hours	every 10,000 operating hours
Oil drive unit	R	
Hydraulic oil	R	
Hydraulic oil filter(s)	R	
Hydraulic Oil Tank Cap Vent Filter	R	
Oil / brake fluid	R	
Thermoconductive paste control unit		R*4
Silicone Paste Pump Coupling		R*4
Power steering rubber parts		R*4
Service brake and parking brake hoses		R*4
Hose steering system		R*4
Hydraulic Hoses Tilt Cylinder		R*4
Hoses of loading/unloading system		R*4

*4: Replace without reservation according to the specified interval in the case of severe operating conditions. Under normal operating conditions, the Service Center determines whether parts need to be replaced or not. If replacement is not deemed necessary, make sure you inspect the affected part at the next periodic maintenance.

The definition of "severe operating conditions" is as follows:

- Long-term harsh operating conditions (e.g. multiple shifts in a row or continuous operation)
- High-temperature areas (e.g., steel mills or foundries)
- Use at low temperatures (e.g. use in cold stores)
- Environments with sudden temperature changes (e.g. between cold rooms and normal room temperature and environments with furnaces and blast furnaces)
- Dusty and sandy environments (e.g. cement plants, sawmills or mills, environments where coal dust or crushed stone is present)

- Corrosive chemical atmospheres (e.g. fish, meat and poultry processing plants, tanneries, chlorine and salty air environments)
- Very humid conditions, wet, humid, water

6.3 Periodic maintenance

MAINTENANCE CYCLE based on the total number of operating hours or months that have elapsed during the life of the truck, whichever occurs earlier	First 6 weeks	Every 6 months	Every 12 months
	First 250 operating hours	every 1000 operating hours	Every 2000 operating hours
Drive system			
Wheels			
General condition of tyres		I	←
Belt treads	I, C, M	I, C, M	←
Wheel disc and rim integrity	I	I	←
Lug nuts	T	T	←
Front and rear wheel bearings			L
Tire pressure of pneumatic tires	M	M	←
Rear axle			
General condition, cracking and deformation of the shaft		I	←
Wheel hub clearance	I	I	←
Mechanical limit stop		I	←
POWER TRANSMISSION SYSTEM			
Drive unit			
General condition		I, C	←
Bolts		T	←
Air vent		I	←
Oil level and conditions		I, M	←
ELECTRICAL SYSTEM			
General information			
Insulation resistance of the truck			M*1
Antistatic belt (option)		I	←
Engine			
General condition and operating conditions		I, C	←
Tightening drive motor bolts		T	←
Power cables		T	←
Battery			
Upper part		I	←
Housing		I	←
Connection		I, C	←
Clamps		I, C	←
Power cables		I	←
Insulation resistance			M*1
Charge level		M	←

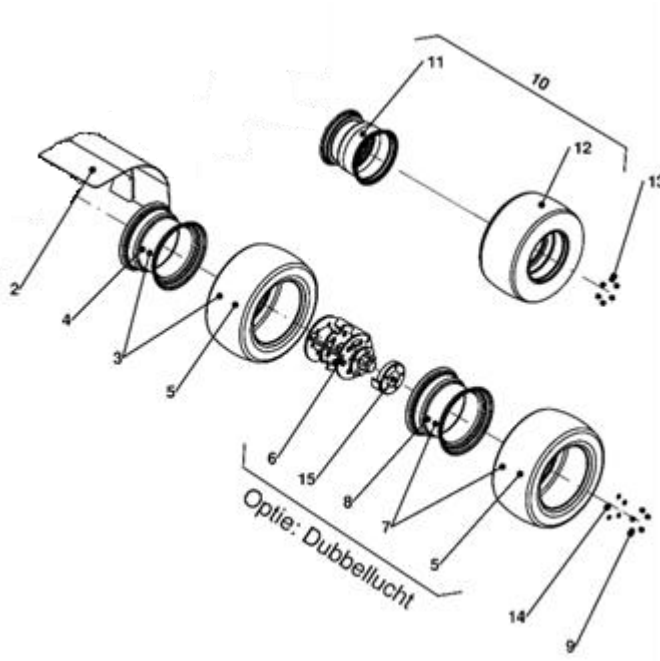
Electrolyte level and relative density		M	←
Contactors			
Contacts		I, C, T	←
Securing to the Supports Power Wire Main Power Circuit		I, T	←
Securing to the ignition coil fasteners		T	←
Connected cables		T	←
Microswitch - potentiometers			
Installation		I	I, T
Operating conditions		I	←
Travel direction switch			
Integrity and operating condition		I	←
Cable Connections			I
Electronic control unit			
General condition		I, C	←
Housing		C	←
Power cables		T	←
Cable Connections		I	←
Plugs		I	←
Logbook alarms		I	←
Fuses and relays			
Electrical wiring		I	←
All functions protected by fuses and relays			I
Electrical wiring			
Cabling		I	←
Connections		I	←
Tape attachment connections		I	←
STEERING SYSTEM			
Steering wheel			
Slack	I, T	I, T	←
Steering system			
Steering angle			I
Lower turntable and crown steering shaft		L	←
Power steering - Electric steering			
General conditions and turning of the steering wheel		I	←
Couplings and connections	I	I	←
Cabling			I
BRAKING SYSTEM			
General information			
General condition		I	←
Venting		I	←
Brake fluid / oil level		M	←
Low level warning light			I

Snakes			I
Brake pedal			
Links	I	I	←
Stroke, return stroke and backlash		I	←
Braking effect		I	←
Parking brake			
Switch		I	←
Conditions and spacing of magnetic discs		C	←
Braking effect		I	←
LOADING/UNLOADING SYSTEM			
Forks			
General condition		I	←
Heels		I	←
Welded parts		I	←
Fork arm alignment		I	←
Locking pins		I, L	←
Lifting support and mast			
Conductors	I, L	I, L	←
Plates	I, L	I, L	←
Grease Fittings	I, I	I, L	←
Roller and roller pin	I	I	←
General condition sideshift	I	I	←
Grease fittings side shift	L	L	←
Support bushings	I, L	I, L	←
Fork truck	I	I	←
Welded parts		I	←
Mounting bolts	I	I, T	←
Chain			
General condition, tension, strain	I, L	I, L	←
Condition and rotation pulley	I	I	←
Tie rod fuse	I, L	I, L	←
Anchoring bolts and nuts	I, L, T	I, L, T	←
Attachments (option)			
General condition and installation		I, L	←
HYDRAULIC SYSTEM			
Cylinders			
General condition		I	←
Cylinder rods and rod end		I, T	←
Attachment to the tilt cylinder supports		I, T	←
Attachment to the mast cylinder supports		I, T	←
Natural Drop and Natural Forward Inclination		I	←
Lifting and lowering speed		I	←
Irregular movement		I	←
Hydraulic pump			

General condition		I	←
Oil leakage and abnormal noise		I	←
Hydraulic oil tank			
General conditions, oil spills		I	←
Oil level and conditions		I, M	←
Hydraulic oil filter			
General condition		I, C	←
Hydraulic Oil Control Valve			
General conditions, oil spills		I	←
Operation of the flap for tilt lock and bleed flap		I	←
Venting pressure			M
Pipes and hoses			
General conditions, oil leaks, deformation and damage		I	←
Loose connection		T	←
SAFETY DEVICES, etc.			
Chassis			
General condition			I
Mounting bolts (protective cover, battery cover, counterweight)			T
Gas spring hoods, door locks		I	←
Protective cover height			
General condition		I	←
Welded parts		I	←
Vibration dampers (only for floating version)		I	←
Load support (option)			
General condition		I	←
Attachment to the supports		T	←
Chair			
General condition		I	←
Seat belt		I	←
Attachment to the supports		T	←
OPS			
Operating conditions	I	I	←
Emergency stop button			
Operating conditions		I	←
Instruments			
Operating conditions		I	←
Horn			
Operating conditions and attachment to the supports		I	←
Contact ring and contact spring			L
Lighting unit			

Operating conditions and attachment to the supports		I	←
Turn signals (option)			
Operating conditions and attachment to the supports		I	←
Reversing buzzer (option)			
Operating conditions		I	←
Blue warning LED (option)			
Operating conditions		I	←
Rear-view mirrors (option)			
General condition		I, C	←
Cab (optional)			
Roof		I	←
Doors and windows, door joints		I, L	←
Windshield wipers		I	←
Heating		I	←
Heating filter		C	←
Safety fences (option)			
General condition and operating conditions		I	←
Software			
Review and update			I
Stability System I.S.D. - Intelligent Stability Design			
Operating conditions		I	←
Cabling		I	←
Attachment of functional parts to the supports		I, T	←
Attachment to the sensor mounts		I, T	
Load sensor			I
Performance of swing lock cylinder			I

7. Tyres and wheels



Tiger II XXL-E

1. Mudguard double air right
2. Mudguard double air Left
3. Complete 295x50-15 drive wheel
4. rim 295x50-15
5. Tire 295x50-15
6. Freehub (optional)
7. Drive wheel 295x50-15 complete outer wheel (optional)
8. 295x50-15 Outer Rim (Optional)
9. Wheel nut
10. Complete 24x13-12 rear wheel
11. Rim 24x13-12
12. Tire 24x13-12
13. Wheel nut
14. Spring washer
15. Freehub stop plate

Band	Tire pressure
Front tire inside	3 Bar
Front tire Outer	2 Bar
Rear tire	2 Bar

Drawing number	Part number	Name
1	PTE.0025	Mudguard double air right
2	PTE.0024	Mudguard double air Left
3		Complete 295x50-15 drive wheel
4	PTET.0200	rim 295x50-15
5	P04.01214.2	Tire 295x50-15
6	PC.2065.10	Freehub (optional)
7		Drive wheel 295x50-15 complete outer wheel (optional)
8	PH.0051BU	295x50-15 Outer Rim (Optional)
9	PH. A00002	Wheel nut
10		Complete 24x13-12 rear wheel
11	HE.0016.1	Rim 24x13-12
12	P04.01213.5	Tire 24x13-12
13	PH. A00002	Wheel nut
14	7203014001FA	Spring washer
15	PH.2065.7	Freehub stop plate