MANITOU

HANDLING YOUR WORLD

647562 EN (04/04/2024)

M26-2 P ST3B S4 EU
M26-4 P ST3B S4 EU
M30-2 P ST3B S4 EU
M30-4 P ST3B S4 EU
M40-2 P ST3B S4 EU
M40-4 P ST3B S4 EU
M50-2 P ST3B S4 EU
M50-4 P ST3B S4 EU
M26-2H P ST3B S4 EU
M30-2H P ST3B S4 EU
M40-2H P ST3B S4 EU
M50-2H P ST3B S4 EU

OPERATOR'S MANUAL

(ORIGINAL INSTRUCTIONS)

IMPORTANT

Carefully read and understand this instruction manual before using this machine.

It contains all information relating to operation, handling and equipment, as well as important recommendations to be followed.

This document also contains precautions for use, as well as information on the service and routine maintenance required to ensure the machine's continued reliability and safety of use.

WHENEVER YOU SEE THIS SYMBOL, IT MEANS:

⚠ IMPORTANT ⚠

NOTE! BE CAREFUL! YOUR SAFETY, THAT OF OTHERS, OR THE SAFETY OF THE MACHINE IS AT RISK.

- This manual has been produced based on the equipment list and technical characteristics given at the time of its design.
- The machine's equipment level depends on the options chosen and the country of sale.
- Depending on the machine's options and the date of sale, certain equipment or functions described in this manual may not be present on this machine.
- Descriptions and figures are nonbinding.
- MANITOU reserves the right to change its models and their equipment without being required to update this manual.
- The MANITOU network, consisting exclusively of qualified professionals, is available to answer all your questions.
- This manual is an integral part of the machine.
- It is to be kept in its storage location at all times for ease of reference.
- Give this manual to the new owner if the machine is resold.

647562 (04/04/2024)
M ... P ST3B S4 EU

1st EDITION	01/02/2016	
UPDATE	17/05/2019	1-1 – 1-20
		2-1 – 2-46
		3-1 – 3-50
	04/04/2024	0-1 – 0-6
		3-9 ; 3-11
		4-6 ; 4-10

The latest updated version in force and binding of this document is the version available on demand.
Only the electronic version is maintained.

MANITOU BF S.A. Public limited company with a board of directors.
Head office: 430 rue de l'Aubinière - 44150 Ancenis - France
Share capital: €39,548,949
Entered in the Nantes Trade and Companies Register under number 857 802 508.
Tel.: +33 (0) 2 40 09 10 11

647562 (04/04/2024)
M... P ST3B S4 EU

1 - OPERATING AND SAFETY INSTRUCTIONS

2 - DESCRIPTION

3 - MAINTENANCE

4 - OPTIONAL ADAPTABLE ATTACHMENTS FOR THE RANGE

647562 (04/04/2024)
M ... P ST3B S4 EU

1 - OPERATING AND SAFETY INSTRUCTIONS

647562 (04/04/2024)
M... P ST3B S4 EU

RED UCE 04

ASSISTANCE I 23 SIMPLE TIPS

The Manitou Group wishes to assist you in reducing the consumption of the machines to help you reduce your carbon footprint.

Chose a machine with an appropriate power rating for your needs.

Switch off your engine after running at idle for more than 3 minutes.

Optimum engine efficiency is achieved at the maximum torque engine speed.

Preferably use a fan control and reversal system.

Favor "smart" electronically-managed transmissions.

Use the air-conditioning with windows and doors closed.

Preferably use LED headlights.

Adapt the type of tire to your environment.

Ensure that your tires are inflated to the correct pressure.

Check the parking brake adjustment.

Preferably use manufacturer-recommended attachments

Check the general condition of your trailer.

Adapt your maximum towable load.

Use the attachments that are suitable for your machine.

Check the hydraulic adjustment of your attachments.

Observe the maintenance periods.

Regularly clean the radiator, the air filter, etc.

Lubricate regularly.

Preferably buy through a manufacturer-approved dealer.

Favor OEM parts.

Study the manufacturers' maintenance contracts.

You can follow eco-driving courses.

Demand to know the consumption and emissions of the machines.

Calculate your consumption and emissions at reduce.manitou.com

647562 (04/04/2024)
M....P ST3B S4 EU

1 - OPERATING AND SAFETY INSTRUCTIONS

647562 (04/04/2024)
M ... P ST3B S4 EU

INSTRUCTIONS TO THE COMPANY MANAGER

THE SITE

- Proper management of the lift truck's area of travel will reduce the risk of accidents:
  - Ground not unnecessarily uneven or obstructed,
  - No excessive slopes,
  - Pedestrian traffic controlled, etc.

THE OPERATOR

- Only qualified, authorised personnel can use the lift truck. This authorisation is given in writing by the appropriate person in the establishment with respect to the use of lift trucks and must be carried permanently by the operator.

⚠ IMPORTANT ⚠

Experience has shown that there are a number of inappropriate ways in which the lift truck might be used. Such foreseeable misuse, of which the main examples are listed below, is strictly forbidden.

-The foreseeable abnormal behaviour resulting from ordinary negligence, but not from any intentional misuse of the machinery.

- The reflex reactions of a person in the event of a malfunction, incident, fault, etc. during operation of the lift truck.

- Behaviour resulting from application of the "principle of least effort" when performing a task.

- For certain machines, the foreseeable behaviour of such persons as: apprentices, teenagers, handicapped persons, trainees tempted to drive a lift truck, operators tempted to operate the machine to win a bet, in competition or for their own personal experience.

The person in charge of the equipment must take these criteria into account when assessing whether or not a person will make a suitable driver.

THE LIFT TRUCK

A - THE TRUCK'S SUITABILITY FOR THE JOB

- MANITOU has ensured that this lift truck is suitable for use under the standard operating conditions defined in this operator's manual, with a **STATIC TEST COEFFICIENT OF 1.33** and a **DYNAMIC TEST COEFFICIENT OF 1**, as specified in harmonised standard **ISO 3691-1** for mast trucks.
- Before commissioning, the company manager must make sure that the lift truck is appropriate for the work to be done, and perform certain tests (in accordance with current legislation).

B - ADAPTATION OF THE LIFT TRUCK TO STANDARD ENVIRONMENTAL CONDITIONS

- In addition to series equipment mounted on your lift truck, many options are available, such as: road lighting, stop lights, revolving light, reverse lights, reverse buzzer alarm, front light, rear light, etc.
- The operator must take into account the operating conditions to specify the lift truck's signalling and lighting equipment. Contact your dealer.
- Take into account climatic and atmospheric conditions of the site of use.
  - Protection against frost (◅ 3 - MAINTENANCE).
  - Adaptation of lubricants (ask your dealer for information).
  - Engine filtration (◅ 3 - MAINTENANCE).

⚠ IMPORTANT ⚠

For operation under average climatic conditions, i.e.: between -15 °C and 35 °C, correct levels of lubricants in all the circuits are checked in production.

For operation under more severe climatic conditions, before starting up, it is necessary to drain all the circuits, then ensure correct levels of lubricants using lubricants properly suited to the relevant ambient temperatures.

The same applies to the cooling liquid.

- Preventing fire risks associated with use in dusty and flammable conditions (e.g. straw, flour, sawdust, organic waste, etc.).
- A lift truck operating in an area without fire extinguishing equipment must be equipped with an individual extinguisher. There are solutions, consult your dealer.

⚠ IMPORTANT ⚠

Your lift truck is designed for outdoor use under normal atmospheric conditions and indoor use in suitably aerated and ventilated premises.

It is forbidden to use the lift truck in areas where there is a risk of fire or potential explosion (e.g. Refineries, fuel or gas depots, stores of flammable products, etc.).

Special equipment is available for use in such areas (ask your dealer for information).

- Our trucks comply with Directive 2004/108/EC concerning electromagnetic compatibility (EMC), and with the corresponding harmonised standard EN 12895. Their proper operation is no longer guaranteed if they are used within areas in which the electromagnetic fields exceed the limit specified by that standard (10 V/m).
- Directive 2002/44/EC requires company managers to not expose their employees to excessive vibration doses. There is no recognised code of measurement for comparing the machines of different manufacturers. The actual doses received cannot therefore be measured under actual operating conditions at the user's premises.
- The following are some tips for minimising these vibration doses:
  - Select the most suitable lift truck and attachment for the intended use.
  - Adapt the seat adjustment to the operator's weight (according to lift truck model) and maintain it in good condition, as well as the cab suspension. Inflate the tyres in accordance with recommendations.
  - Ensure that the operators adapt their operating speed to suit the conditions on site.
  - As far as possible, arrange the site in such a way as to provide a flat running surface and remove obstacles and harmful potholes.

C - MODIFICATION OF THE LIFT TRUCK

- For your own safety and that of others, you must not change the structure and settings of the various components used in your lift truck by yourself (hydraulic pressure, limiter calibration, engine speed, addition of extra equipment, addition of counterweights, unapproved attachments, alarm systems, etc.). In this event, the manufacturer cannot be held liable.

D - FRENCH ROAD TRAFFIC RULES

- Only one certificate of conformity is issued. It must be kept in a safe place.
- The driving of non-approved lift trucks on the public highway is subject to the provisions of the highway code relating to special machines, defined in article R311-1 of the highway code, in category B of the Equipment Order of 20 November 1969 that determines the procedures applicable to special machines. The lift truck must be fitted with a license plate.

INSTRUCTIONS

- The operator's manual must always be in good condition and kept in the place provided on the lift truck and in the language used by the operator.
- Operator's manuals and any plates or stickers which are no longer legible or are damaged, must be replaced.

MAINTENANCE

- Maintenance or repairs other than those detailed in part: 3 - MAINTENANCE must be carried out by qualified personnel (consult your dealer) and under the necessary safety conditions to maintain the health of the operator and any third party.

⚠ IMPORTANT ⚠

Your lift truck must be inspected periodically to ensure that it remains in compliance.
The frequency of this inspection is defined by current legislation in the country in which the lift truck is used.

- Example for France "The manager in charge of the establishment using a lift truck must open and maintain a maintenance log for each machine (order of 2 March 2004) and undergo a general periodic inspection every 6 months (order of 1 March 2004)".

647562 (04/04/2024)
M ... P ST3B S4 EU

INSTRUCTIONS TO THE OPERATOR

FOREWORD

⚠ IMPORTANT ⚠

The risk of accident while using, servicing or repairing your lift truck can be restricted if you follow the safety instructions and safety measures detailed in these instructions.

Failure to respect the safety and operating instructions, or instructions for repairing or servicing your lift truck, may lead to serious, even fatal accident.

In order to reduce or avoid any danger with a MANITOU-approved attachment, follow the instructions of paragraph: 4 - ADAPTABLE ATTACHMENTS IN OPTION ON THE RANGE: INTRODUCTION.

- Only the operations and manoeuvres described in this operator's manual must be performed. The manufacturer cannot predict all possible risky situations. Consequently, the safety instructions given in the operator's manual and on the lift truck itself are not exhaustive.
- At any time, as an operator, you must envisage, within reason, the possible risk to yourself, to others or to the lift truck itself when you use it.

GENERAL INSTRUCTIONS

A - OPERATOR'S MANUAL

- Read the operator's manual carefully.
- The operator's manual must always be in good condition and in the place provided for it on the lift truck.
- You must report any plates and stickers which are no longer legible or which are damaged.

B - AUTHORISATION FOR USE IN FRANCE

(or see current legislation in other countries)

- Only qualified, authorised personnel can use the lift truck. This authorisation is given in writing by the appropriate person in the establishment with respect to the use of lift trucks and must be carried permanently by the operator.
- The operator is not competent to authorise the driving of the lift truck by another person.

C - MAINTENANCE

- The operator must immediately advise his superior if his lift truck is not in good working order or does not comply with the safety notice.
- The operator is prohibited from carrying out any repairs or adjustments himself, unless he has been trained for this purpose. He must keep the lift truck properly cleaned if this is among his responsibilities.
- The operator is responsible for carrying out daily maintenance (◁ 3 - MAINTENANCE).
- The operator must ensure tyres are appropriate for the type of ground (◁ 2 - DESCRIPTION). There are optional solutions, consult your dealer.
  - SAND tyres.
  - FARM tyres.
  - Snow chains.

⚠ IMPORTANT ⚠

Do not use the lift truck if the tyres are incorrectly inflated, damaged or excessively worn, because this could put your own safety or that of others at risk, or cause damage to the lift truck itself.

The fitting of foam inflated tyres is prohibited and is not guaranteed by the manufacturer, excepting prior authorisation.

- The operator is responsible for deciding and adjusting the frequency of cleaning needed to prevent the risk of fire ensuing from the build-up of flammable material(s).
- The operator should pay special attention to all the areas of the lift truck where these risk materials are likely to accumulate.

D - MODIFICATION OF THE LIFT TRUCK

- For your own safety and that of others, you must not change the structure and settings of the various components used in your lift truck by yourself (hydraulic pressure, limiter calibration, engine speed, addition of extra equipment, addition of counterweights, unapproved attachments, alarm systems, etc.). In this event, the manufacturer cannot be held liable.

E - LIFTING PEOPLE

- It is forbidden to lift or carry people.

A - BEFORE STARTING THE LIFT TRUCK

- Perform the daily maintenance operations (◁ 3 - MAINTENANCE).
- Make sure that the driver's cab is clean, particularly the floor and floor mat. Check that no movable object may hinder the operation of the lift truck.
- Make sure the lights, indicators and windscreen wipers are working properly.
- Make sure the rear view mirrors are in good condition, clean and properly adjusted.
- Make sure the horn works.

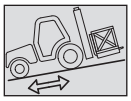
B - DRIVER'S OPERATING INSTRUCTIONS

⚠ IMPORTANT ⚠

Under no circumstances must the seat be adjusted while the lift truck is moving.

- Whatever his experience, the operator is advised to familiarise himself with the position and operation of all the controls and instruments before operating the lift truck.
- Wear clothes suited for driving the lift truck, avoid loose clothes.
- Make sure you have the appropriate protective equipment for the task to be performed.
- Prolonged exposure to high noise levels may cause hearing problems. It is recommended to wear ear muffs to protect against excessive noise.
- Always face the lift truck when getting into and out of the driver's cab.
  - Use the handle(s) provided for this purpose.
  - Use the step(s).
  - Do not jump out of the lift truck.
- Always pay attention when using the lift truck. Do not listen to the radio or music using headphones or earphones.
- Never operate the lift truck when hands or feet are wet or soiled with greasy substances.
- For increased comfort, adjust the seat to your requirements and adopt the correct position in the driver's cab.
- The operator must always be in his normal position in the driver's cab. It is prohibited to have arms or legs, or generally any part of the body, protruding from the driver's cab of the lift truck.
- The safety belt must be worn and adjusted to the operator's size.
- The control units must never in any event be used for any other than their intended purposes (e.g. climbing onto or down from the lift truck, portmanteau, etc.).
- If the control components are fitted with a forced operation (lever lock) device, it is forbidden to leave the cab without first putting these controls in neutral.
- It is prohibited to carry passengers either on the lift truck or in the cab.

C - ENVIRONMENT

- Comply with site safety regulations.
- If you have to use the lift truck in a dark area or at night, make sure it is equipped with working lights.
- During handling operations, make sure that no one is in the way of the lift truck and its load.
- Do not allow anybody to come near the working area of the lift truck or pass beneath an elevated load.
- When using the lift truck on a transverse slope, before lifting the mast, follow the instructions given in the paragraph: INSTRUCTIONS FOR HANDLING A LOAD.
- Travelling on a longitudinal slope:
  - Drive and brake gently.
  - Moving without load: Forks or attachment facing downhill. 
  - Moving with load: Forks or attachment facing uphill. 
- Take into account the lift truck's dimensions and its load before trying to negotiate a narrow or low passageway.
- Never move onto a loading platform without having first checked:
  - That it is suitably positioned and made fast.
  - That the unit to which it is connected (wagon, lorry, etc.) will not shift.
  - That this platform is prescribed for the total weight of the lift truck to be loaded.
  - That this platform is prescribed for the size of the lift truck.
- Never move onto a foot bridge, floor or freight lift, without being certain that they are prescribed for the weight and size of the lift truck to be loaded and without having checked that they are in sound working order.
- Be careful in the area of loading bays, trenches, scaffolding, soft ground and manholes.
- Make sure the ground is stable and firm under the wheels before lifting the load.
- Make sure that the scaffolding, loading platform, pilings or ground is capable of bearing the load.

647562 (04/04/2024)
M ... P ST3B S4 EU

- Never stack loads on uneven ground, they may tip over.
- The load or the attachment must not be left just above a structure for long periods at a time because of the descending mast. In such a case, a constant watch must be kept and the height of the forks or the attachment readjusted if necessary.
- When working near aerial lines, ensure that the safety distance is sufficient between the working area of the lift truck and the aerial line.

⚠ IMPORTANT ⚠

You must consult your local electrical agency. You could be electrocuted or seriously injured if you operate or park the lift truck too close to power cables.

In the event of high winds, do not carry out handling work that jeopardises the stability of the lift truck and its load, particularly if the load catches the wind badly.

- Prevent fire risks associated with use in dusty and flammable conditions (e.g. straw, flour, sawdust, organic waste, etc.).

D - VISIBILITY

- The safety of people within the lift truck's working area, as well as that of the lift truck itself and the operator are depend on good operator visibility of the lift truck's immediate vicinity in all situations and at all times.
- This lift truck has been designed to allow good operator visibility (direct or indirect by means of rear-view mirrors) of the immediate vicinity of the lift truck while travelling with no load and with the mast in the transport position.
- Special precautions must be taken if the size of the load restricts visibility towards the front:
  - Moving in reverse,
  - Site layout,
  - assisted by a person directing the manoeuvre (while standing outside the truck's area of travel), making sure to keep this person clearly in view at all times,
  - In any event, avoid reversing over long distances.
- If visibility of your road is inadequate, ask someone to assist by directing the manoeuvre (while standing outside the truck's area of travel), making sure to keep this person clearly in view at all times.
- Keep all components affecting visibility in a clean, properly adjusted state and in good working order (e.g. windscreens, windows, windscreen wipers, windscreen washers, driving and work lights, rear-view mirrors).

E - STARTING THE LIFT TRUCK

SAFETY INSTRUCTIONS

⚠ IMPORTANT ⚠

The lift truck must only be started up or manoeuvred when the operator is sitting in the driver's cab, with his seat belt adjusted and fastened.

- Never try to start the lift truck by pushing or hauling it. Such an operation may cause severe damage to the transmission. If necessary, towing requires the transmission to be put in neutral (◁ 3 - MAINTENANCE).
- If using an emergency battery for start-up, use a battery with the same characteristics and respect battery polarity when connecting it. Connect at first the positive terminals before the negative terminals.

⚠ IMPORTANT ⚠

Failure to respect polarity between batteries can cause serious damage to the electrical circuit.
The electrolyte in the battery may produce an explosive gas. Avoid flames and generation of sparks close to the batteries.
Never disconnect a battery while it is charging.

INSTRUCTIONS

- Check the closing and locking of the hood(s).
- For lift trucks operating on gas carburisation, open the gas bottle.
- Ensure that the forward/reverse selector is set to neutral.
- Turn the ignition key to the position I to activate the electrical and preheat system.
- Check the fuel level on the indicator.
- Turn the ignition key fully, the engine should then start. Release the ignition key and let the engine run at idle.
- Do not engage the starter motor for more than 15 seconds and carry out the preheating between unsuccessful attempts.
- Make sure all the signal lights on the control instrument panel are off.
- Check all control instruments when the engine is warm and at regular intervals during use, so as to quickly detect any faults and to be able to correct them without any delay.
- If an instrument does not show the correct display, stop the engine and immediately carry out the necessary operations.

F - DRIVING THE LIFT TRUCK

SAFETY INSTRUCTIONS

⚠ IMPORTANT ⚠

Operators' attention is drawn to the risks involved in using the lift truck, in particular:
- Risk of losing control.
- Risk of losing lateral and frontal stability of the lift truck.
The operator must remain in control of the lift truck.
In the event of the lift truck overturning, do not try to leave the cabin during the incident.
YOUR BEST PROTECTION IS TO STAY FASTENED IN THE CABIN.

- Observe the company's traffic regulations or, by default, the public highway code.
- Do not carry out operations which exceed the capacities of your lift truck or attachments.
- Always drive the lift truck with the forks or attachment to the transport position, i.e. at 300mm from the ground and the carriage sloping backwards.
- Only carry loads which are balanced and properly anchored to avoid any risk of a load falling off.
- Ensure that pallets, cases, etc. are in good order and suitable for the load to be lifted,
- Familiarise yourself with the lift truck on the terrain where it will be used.
- Ensure that the service brakes are working properly.
- The loaded lift truck must not travel at speeds in excess of 12 km/h.
- Drive smoothly at an appropriate speed for the operating conditions (land configuration, load on the lift truck).
- Do not use the hydraulic mast controls when the lift truck is moving.
- Do not manoeuvre the lift truck with the mast in the raised position unless under exceptional circumstances and then with extreme caution, at very low speed and using gentle braking. Ensure that visibility is adequate.
- Take bends slowly.
- In all circumstances make sure you are in control of your speed.
- On damp, slippery or uneven terrain, drive slowly.
- Brake gently, never abruptly.
- Only use the lift truck's forward/reverse selector from a stationary position and never do so abruptly.
- Do not drive with your foot on the brake pedal.
- Always remember that hydrostatic type steering is extremely sensitive to movement of the steering wheel, so turn it gently and not jerkily.
- Never leave the engine running when the lift truck is unattended.
- Do not leave the cab when the lift truck has a raised load.
- Look where you are going and always make sure you have good visibility along the route.
- Use the rear-view mirrors frequently.
- Drive round obstacles.
- Never drive on the edge of a ditch or steep slope.
- It is dangerous to use two lift trucks simultaneously to handle heavy or voluminous loads, since this operation requires particular precautions to be taken. It must only be used exceptionally and after risk analysis.
- The ignition switch has an emergency stop mechanism in case of an operating anomaly occurring in the case of lift trucks not fitted with a punch-operated cut-out.

INSTRUCTIONS

- Always drive the lift truck with the forks or attachment to the transport position, i.e. at 300mm from the ground and the carriage sloping backwards.
- For lift trucks with gearboxes, use the selected gear (◁ 2 - DESCRIPTION).
- Release the hand brake.
- Shift the forward/reverse selector to the selected direction of travel and accelerate gradually until the lift truck moves off.

G - STOPPING THE LIFT TRUCK

SAFETY INSTRUCTIONS

- Never leave the ignition key in the lift truck during the operator's absence.
- When the lift truck is stationary, or if the operator has to leave his cab (even for a moment), place the forks or attachment on the ground, apply the parking brake and place the forward/reverse selector in neutral.
- Make sure that the lift truck is not stopped in any position that will interfere with the traffic flow and at less than one metre from the track of a railway.
- In the event of prolonged parking on a site, protect the lift truck from bad weather, particularly from frost (check the level of antifreeze), close and lock all the lift truck accesses (doors, windows, cowls, etc.).

INSTRUCTIONS

- Park the lift truck on flat ground or on an incline lower than 15%.
- Set the forward/reverse selector to neutral.
- Apply the parking brake.
- For lift trucks with gearboxes, place the gear lever in neutral.
- Lower the forks or attachment to rest on the ground.
- When using an attachment with a grab or jaws, or a bucket with hydraulic opening, close the attachment fully.
- Before stopping the lift truck after a long working period, leave the engine idling for a few moments, to allow the coolant liquid and oil to lower the temperature of the engine and transmission. Do not forget this precaution, in the event of frequent stops or warm stalling of the engine, or else the temperature of certain parts will rise significantly due to the stopping of the cooling system, with the risk of badly damaging such parts.
- Stop the engine with the ignition switch.
- Remove the ignition key.
- Lock all the accesses to the lift truck (doors, windows, cowls…).
- For lift trucks operating on gas carburisation, shut the LPG bottle. For a long lasting stop, let the engine stop naturally by shutting the LPG bottle before switching off the ignition, so as to eliminate all the fuel in the feed tube.

H - DRIVING THE LIFT TRUCK ON THE PUBLIC HIGHWAY

FRENCH ROAD TRAFFIC RULES

- The driving of non-approved lift trucks on the public highway is subject to the provisions of the highway code relating to special machines, defined in article R311-1 of the highway code, in category B of the Equipment Order of 20 November 1969 that determines the procedures applicable to special machines. The lift truck must be fitted with a license plate.

SAFETY INSTRUCTIONS

- Operators driving on the public highway must comply with current highway code legislation.
- The lift truck must comply with current road legislation. If necessary, there are optional solutions. Contact your dealer.

INSTRUCTIONS

- Make sure the revolving light is in place, switch it on and verify its operation.
- Make sure the lights, indicators and windscreen wipers are working properly.
- Switch off the working headlights if the lift truck is fitted with them.
- Place the attachment 300mm from the ground.

⚠ IMPORTANT ⚠

Never move in neutral (forward/reverse selector or gear lever in neutral or transmission cut-off button pressed) to preserve the lift truck engine brake.
Failure to follow this instruction on a slope will lead to excessive speed which may make the lift truck uncontrollable (steering, brakes) and may cause serious mechanical damage.

DRIVING THE LIFT TRUCK WITH A FRONT-MOUNTED ATTACHMENT

- You must comply with current regulations in your country, covering the possibility of driving on the public highway with a front-mounted attachment on your lift truck.
- If road legislation in your country authorises circulation with a front-mounted attachment, you must at least:
  - Protect and report any sharp and/or dangerous edges on the attachment (◁ 4 - ADAPTABLE ATTACHMENTS AVAILABLE ON THE RANGE).
  - The attachment must not be loaded.
  - Make sure that the attachment does not mask the lighting range of the forward lights.
  - Make sure that current legislation in your country does not require other obligations.

647562 (04/04/2024)
M... P ST3B S4 EU

For lift trucks equipped with a towing system

OPERATING THE LIFT TRUCK WITH A TRAILER

- For using a trailer, observe the regulations in force in your country (maximum travel speed, braking, maximum weight of trailer, etc.).
- Do not forget to connect the trailer's electrical equipment to that of the lift truck.
- The trailer's braking system must comply with current legislation.
- If pulling a trailer with assisted braking, the tractor lift truck must be equipped with a trailer braking mechanism. In this case, do not forget to connect the trailer braking equipment to the lift truck.
- The vertical force on the towing hook must not exceed the maximum authorised by the manufacturer (consult the manufacturer's plate on your lift truck).
- The authorised gross vehicle weight must not exceed the maximum weight authorised by the manufacturer (consult the manufacturer's plate on your lift truck).

IF NECESSARY, CONSULT YOUR DEALER.

INSTRUCTIONS FOR HANDLING A LOAD

A - CHOICE OF ATTACHMENTS

- Only attachments approved by MANITOU can be used on its lift trucks.
- Make sure the attachment is appropriate for the work to be done (◁ 4 - ADAPTABLE ATTACHMENTS AVAILABLE ON THE RANGE).
- Make sure the attachment is correctly installed and locked onto the lift truck carriage.
- Make sure that your lift truck attachments work properly.
- Comply with the load chart limits for the lift truck for the attachment used.
- Do not exceed the rated capacity of the attachment.
- Never lift a load in a sling without the attachment provided for the purpose. There are optional solutions; contact your dealer.

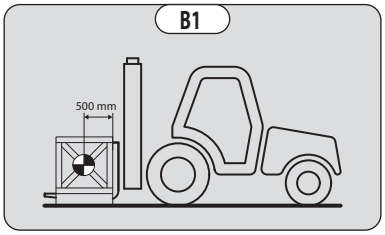
B - WEIGHT OF LOAD AND CENTRE OF GRAVITY

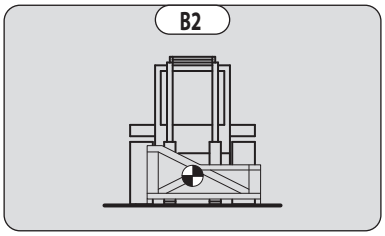
- Before taking up a load, you must know its mass and its centre of gravity.
- The load chart for your lift truck is valid for a load in which the longitudinal position of the centre of gravity is 500 mm or 600 mm from the base of the forks (according to the model of lift truck) (Fig. B1). For a higher centre of gravity, contact your dealer.
- For irregular loads, determine the transverse centre of gravity before any movement (fig. B2) and set it in the longitudinal axis of the lift truck.

⚠ IMPORTANT ⚠

It is forbidden to move a load heavier than the effective capacity defined on the lift truck load chart.

For loads with a moving centre of gravity (e.g. liquids), take account of the variations in the centre of gravity in order to determine the load to be handled and be extra vigilant and careful to limit these variations as far as possible.





C - TRANSVERSE ATTITUDE OF THE LIFT TRUCK

The transverse attitude is the transverse slope of the chassis with respect to the horizontal.

Raising the mast reduces the lift truck's lateral stability. The transverse attitude must be set with the mast in down position as follows:

- Position the lift truck so that the bubble in the level is between the two lines (◁ 2 - DESCRIPTION).

647562 (04/04/2024)
M ... P ST3B S4 EU

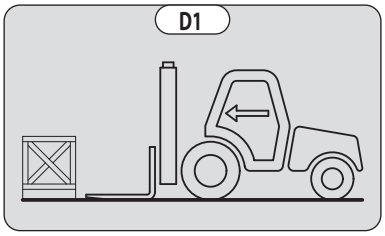
D - PICKING UP A LOAD ON THE GROUND

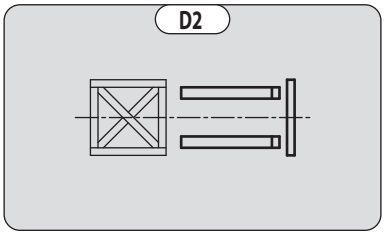
- Approach the lift truck perpendicular to the load, with the forks in a horizontal position (fig. D1).
- Adjust the fork spread and centring in connection with the load (fig. D2) (optional solutions exist, consult your dealer).
- Never lift a load with a single fork.

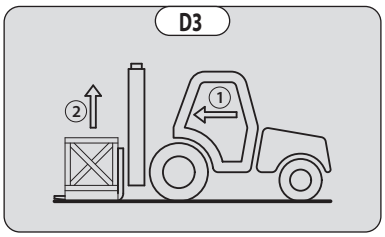
⚠ IMPORTANT ⚠

Beware of the risks of trapping or crushing limbs when manually adjusting the forks.

- Move the lift truck forward slowly (1) and bring the forks to stop in front of the load (fig. D3), if necessary, slightly lift the mast (2) while taking up the load.
- Bring the load into the transport position.
- Tilt the load far enough backwards to ensure stability (loss of load on braking or going downhill).

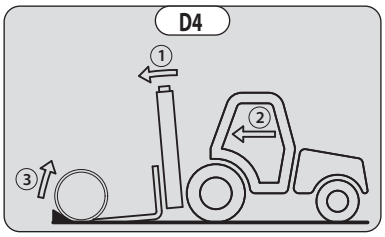






FOR A NON-PALLETISED LOAD

- Tilt the carriage (1) forwards and move the lift truck slowly forwards (2), to insert the fork under the load (fig. D4) (block the load if necessary).
- Continue to move the lift truck forwards (2) tilting the carriage (3) (fig. D4) backwards to position the load on the forks and check the load's longitudinal and lateral stability.



PICKING UP AND LAYING DOWN A HIGH LOAD ON TIRES

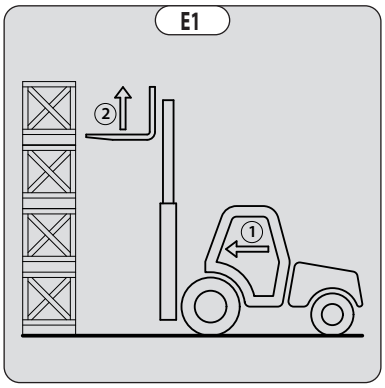
⚠ IMPORTANT ⚠

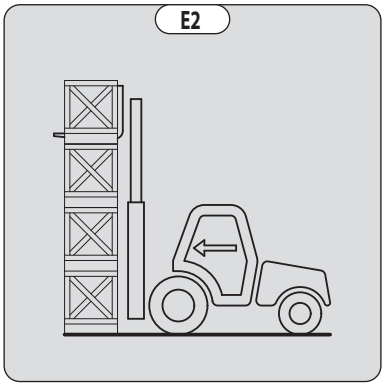
You must not raise the boom if you have not checked the transverse attitude of the lift truck (◁ INSTRUCTIONS FOR HANDLING A LOAD).

REMINDER: Make sure that the following operations can be performed with good visibility (◁ OPERATION INSTRUCTIONS UNLADEN AND LADEN).

PICKING UP A HIGH LOAD ON TIRES

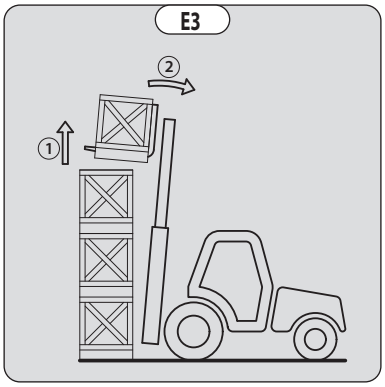
- Ensure that the forks will easily pass under the load.
- Keeping the mast vertical (1), advance the lift truck and raise the forks to level with the load (2) (fig. E1).
- Manoeuvre carefully and gently to bring the forks to the stop in front of the load (fig. E2). Set the handbrake and place the forward/reverse selector to neutral.

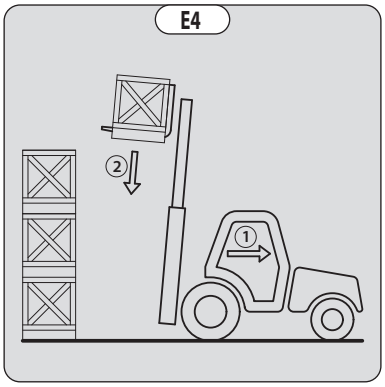




647562 (04/04/2024)
M ... P ST3B S4 EU

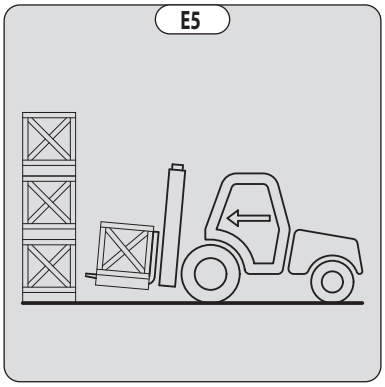
- Slightly raise the load (1) and tilt the carriage (2) backwards to stabilise the load (fig. F3).
- Tilt the load sufficiently backwards to ensure its stability.
- Reverse the lift truck (1) very carefully and gently to free the load. Lower the mast (2) to bring the load into transport position (fig. E4).

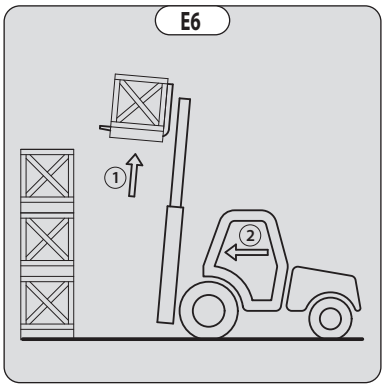


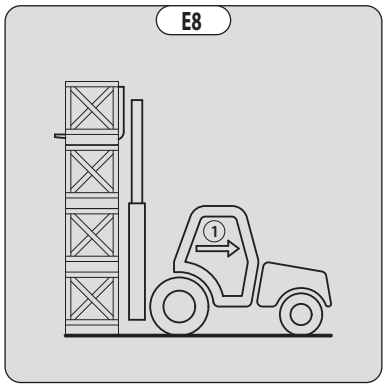


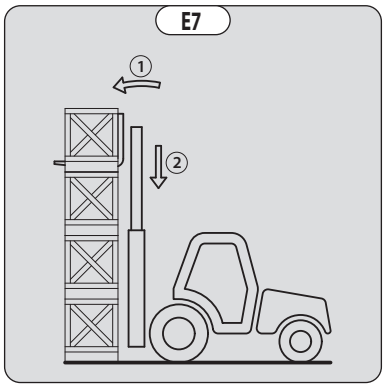
LAYING A HIGH LOAD ON TYRES

- Approach the load in the transport position in front of the pile (fig. E5).
- Raise the mast (1) until the load is higher than the pile and move the lift truck forward (2) (fig. E6) very carefully and gently, until the load is over the pile. Put the handbrake on and set the forward/reverse selector to neutral.
- Place the load in a horizontal position by tilting the mast forwards (1) and lay it down on the pile (2) while checking the correct positioning of the load (fig. E7).
- Reverse the lift truck (1) very slowly and carefully to release the forks (fig. E8). Then set them into transport position.









647562 (04/04/2024)
M... P ST3B S4 EU

LIFT TRUCK MAINTENANCE INSTRUCTIONS

GENERAL INSTRUCTIONS

- Ensure the area is sufficiently ventilated before starting the lift truck.
- Wear clothes suitable for the maintenance of the lift truck, avoid wearing jewellery and loose clothes. Tie back and protect your hair, if necessary.
- Before carrying out any work on the lift truck:
  - Switch off the engine
  - Apply the parking brake.
  - Remove the ignition key.
- Read the operator's manual carefully.
- Carry out all repairs immediately, even if the repairs concerned are minor.
- Repair all leaks immediately, even if the leak concerned is minor.
- Ensure that process materials and of spare parts are disposed in all safely and in an ecological manner.
- Be careful of the risk of burning and splashing (exhaust, radiator, engine, etc.).

MAINTENANCE

- Perform the periodic service (◁ 3 - MAINTENANCE) to keep your lift truck in good working condition. Failure to perform the periodic service may cancel the contractual guarantee.

MAINTENANCE LOGBOOK

- The maintenance operations carried out in accordance with the recommendations given in part: 3 - MAINTENANCE and the other inspection, servicing or repair operations or modifications performed on the lift truck or its attachments shall be recorded in a maintenance logbook. The entry for each operation shall include details of the date of the works, the names of the individuals or companies having performed them, the type of operation and its frequency, if applicable. The part numbers of any lift truck items replaced shall also be indicated.

LUBRICANT AND FUEL LEVELS

- Use the recommended lubricants (never use contaminated lubricants).
- Do not fill the fuel tank when the engine is running.
- Only fill up the fuel tank in areas specified for this purpose.
- Do not fill the fuel tank to the maximum level.
- Do not smoke or approach the lift truck with a flame, when the fuel tank is open or is being filled.

HYDRAULICS

- Any work on the load handling hydraulic circuit is forbidden except for the operations described in part: 3 - MAINTENANCE.
- Do not attempt to loosen connections, hoses or a hydraulic component with the circuit under pressure.

⚠ IMPORTANT ⚠

It is dangerous to change the setting and remove the BALANCING VALVES or SAFETY VALVES which may be fitted to your lift truck cylinders.

The HYDRAULIC ACCUMULATORS that may be fitted on your lift truck are pressurised units.
Removing these accumulators and their pipework is dangerous.

Such operations must only be performed by approved personnel (consult your dealer).

ELECTRICITY

- Do not short-circuit the starter relay to start the engine. If the forward/reverse selector is not in neutral and the parking brake is not applied, the lift truck may suddenly start to move.
- Do not place metal items on the battery.
- Disconnect the battery before working on the electrical circuit.

647562 (04/04/2024)
M... P ST3B S4 EU

WELDING

- Disconnect the battery before any welding operations on the lift truck.
- When carrying out electric welding work on the lift truck, connect the negative cable from the equipment directly to the part being welded, so as to avoid high tension current passing through the alternator.
- Never carry out welding or work which gives off heat on an assembled tire. The heat would increase the pressure which could cause the tire to explode.
- If the lift truck is equipped with an electronic control unit, disconnect this before starting to weld, to avoid the risk of causing irreparable damage to electronic components.

WASHING THE LIFT TRUCK

- Clean the lift truck or at least the area concerned before any intervention.
- Remember to close and lock all accesses to the lift truck (doors, windows, cowls…).
- During washing, avoid the articulations and electrical components and connections.
- If necessary, protect against penetration of water, steam or cleaning agents, components susceptible of being damaged, particularly electrical components and connections and the injection pump.
- Clean the lift truck of any fuel, oil or grease trace.

TRANSPORTING THE LIFT TRUCK

⚠ IMPORTANT ⚠

Transporting the lift truck involves real risks for the operator and others involved.

- Towing, slinging or transporting the lift truck (◅ 3 - MAINTENANCE).

IF THE LIFT TRUCK IS NOT TO BE USED FOR A LONG TIME

INTRODUCTION

The following recommendations are intended to prevent the lift truck from being damaged when it is withdrawn from service for an extended period.

⚠ IMPORTANT ⚠

Procedures to follow if the lift truck is not to be used for a long time and for starting it up again afterwards must be performed by your dealership. This long-term storage period must not exceed 12 months.

PREPARING THE LIFT TRUCK

- Clean the lift truck thoroughly.
- Check and repair any leakage of fuel, oil, water or air.
- Replace or repair any worn or damaged parts.
- Wash the painted surfaces of the lift truck in clear and cold water and wipe them.
- Touch up the paintwork if necessary.
- Shut down the lift truck (◅ OPERATING INSTRUCTIONS UNLADEN AND LADEN).
- Make sure the mast cylinder rods are all in retracted position.
- Release the pressure in the hydraulic circuits.

DEF (Diesel Exhaust Fluid) TANK

Depending on the model of lift truck

- Empty and rinse the "DEF" tank.
- Replace the "DEF" (Diesel Exhaust Fluid) feed pump filter (◅ 3 - MAINTENANCE).
- Fill up with new "DEF" (Diesel Exhaust Fluid) (◅ 2 - DESCRIPTION).
- Start up the lift truck to pressurise the circuit and bring it up to working temperature.
- Switch off the engine.
- Check the "DEF" level and top up if required.

PROTECTING THE ENGINE

- Contact your dealer to obtain the procedure for protecting the inside of the engine (use of protection product).
- Fill the tank with fuel (◅ 3 - MAINTENANCE).
- Replace the coolant (◅ 3 - MAINTENANCE).
- Leave the engine running at idling speed for a few minutes, then switch off.
- Replace the engine oil and oil filter (◅ 3 - MAINTENANCE).
- Run the engine for a short time so that the oil and coolant circulate inside.
- Disconnect the battery and store it in a safe place away from the cold, after charging it to a maximum.
- Block the outlet with waterproof adhesive tape.
- Remove the drive belts and store them in a safe place.
- Disconnect the engine cut-off solenoid on the injection pump and carefully insulate the connection.

PROTECTING THE LIFT TRUCK

- Set the lift truck on axle stands so that the tyres are not in contact with the ground and release the parking brake.
- Protect cylinder rods which will not be retracted, from corrosion.
- Wrap the tyres.

NOTE: If the lift truck is to be stored outdoors, cover it with a waterproof tarpaulin.

647562 (04/04/2024)
M ... P ST3B S4 EU

BRINGING THE LIFT TRUCK BACK INTO SERVICE

- Remove the waterproof adhesive tape from all the holes.
- Refit and reconnect the battery.
- Remove the protection from the cylinder rods.
- Perform the daily maintenance operations (◅ 3 - MAINTENANCE).
- Put the handbrake on and remove the axle stands.
- Drain and clean the fuel tank (◅ 3 - MAINTENANCE).
- Fill the fuel tank with clean diesel filtered through the filler port.
- Replace the fuel filter (◅ 3 - MAINTENANCE).
- Replace the fuel pre-filter (◅ 3 - MAINTENANCE) **(depending on the model of lift truck)**
- Drain and rinse the DEF tank **(depending on the model of lift truck)**
- Top up, slowly fill the tank with new "DEF" (Diesel Exhaust Fluid) up to the bottom of the filler neck **(depending on the model of lift truck)**
- Refit the drive belts and adjust the tension (◅ 3 - MAINTENANCE).
- Turn the engine over with the starter, to allow the oil pressure to rise.
- Reconnect the engine cut-off solenoid.
- Lubricate the lift truck completely (◅ 3 - MAINTENANCE).

⚠ IMPORTANT ⚠

Ensure the area is sufficiently ventilated before starting the lift truck.

- Start up the lift truck, following the safety instructions and regulations (◅ OPERATING INSTRUCTIONS UNLADEN AND LADEN).
- Run all the jib's hydraulic movements, concentrating on the ends of travel for each cylinder.

647562 (04/04/2024)
M....P ST3B S4 EU

LIFT TRUCK DISPOSAL

⚠ IMPORTANT ⚠

Please consult your dealer before disposing of your lift truck.

RECYCLING OF MATERIALS

METALS

- Metals are 100% recoverable and recyclable.

PLASTICS

- Plastic parts are identified with a marking in accordance with current regulations.
- A limited range of materials is used to simplify the recycling process.
- The majority of plastic components are made of "thermoplastic" plastics, which are easily recycled by melting, granulating or grinding.

RUBBER

- Tyres and seals can be ground for use in cement manufacture or to obtain reusable granules.

GLASS

- Glass items can be removed and collected for processing by glaziers.

ENVIRONMENTAL PROTECTION

By entrusting the maintenance of your lift truck to the MANITOU network, the risk of pollution is limited and the contribution to environmental protection contribution is made.

WORN OR DAMAGED PARTS

- Do not dump them in the countryside.
- MANITOU and its network have signed-up to a scheme of environmental protection through recycling.

USED OIL

- The MANITOU network organises the collection and processing of used oil.
- By handing over your waste oil to MANITOU, the risk of pollution is limited.

USED BATTERIES

- Do not throw away batteries, as they contain metals that are harmful for the environment.
- Return them to the MANITOU network or any other approved collection point.

NOTE: MANITOU aims to manufacture lift trucks that provide the best performance and limit polluting emissions.

647562 (04/04/2024)
M ... P ST3B S4 EU

2 - DESCRIPTION

2 - DESCRIPTION

1) DÉCLARATION «CE» DE CONFORMITÉ (originale)

« EC» DECLARATION OF CONFORMITY (original)

2) La société, *The company* : **MANITOU BF**

3) Adresse, *Address* : **430, rue de l'Aubinière - BP 10249 - 44158 - ANCENIS CEDEX - FRANCE**

4) Dossier technique,*Technical file* : **MANITOU BF - 430, rue de l'Aubinière**
BP 10249 - 44158 - ANCENIS CEDEX - FRANCE

5) Constructeur de la machine décrite ci-après, *Manufacturer of the machine described below* :

M26-2 P ST3B S4 EU / M26-4 P ST3B S4 EU / M26-2H P ST3B S4 EU
M30-2 P ST3B S4 EU / M30-4 P ST3B S4 EU / M30-2H P ST3B S4 EU
M40-2 P ST3B S4 EU / M40-4 P ST3B S4 EU / M40-2H P ST3B S4 EU
M50-2 P ST3B S4 EU / M50-4 P ST3B S4 EU / M50-2H P ST3B S4 EU

6) Déclare que cette machine, *Declares that this machine* :

7) Est conforme aux directives suivantes et à leurs transpositions en droit national, *Complies with the following directives and their transpositions into national law* :

2006/42/CE

8) Pour les machines annexe IV , *For annex IV machines* :
9) Numéro d'attestation, *Certificate number* :
10) Organisme notifié, *Notified body* :

15) Normes harmonisées utilisées, *Harmonised standards used* :

16) Normes ou dispositions techniques utilisées, *Standards or technical provisions used* :

17) Fait à, *Done at* : 18) Date, *Date* :

19) Nom du signataire, *Name of signatory* :

20) Fonction, *Function* :

21) Signature, *Signature* :

647562 (04/04/2024)
M ... P ST3B S4 EU

bg : 1) удостоверение за « CE » съответствие (оригинална), 2) Фирмата, 3) Адрес, 4) Техническо досие, 5) Фабрикант на описаната по-долу машина, 6) Обявява, че тази машина, 7) Отговаря на следните директиви и на тяхното съответствие национално право, 8) За машините към допълнение IV, 9)Номер на удостоверението, 10) Наименувана фирма, 15) хармонизирани стандарти използвани, 16) стандарти или технически правила, използвани, 17) Изработено в, 18) Дата, 19) Име на разписалия се, 20) Функция, 21) Функция.

cs : 1) ES prohlášení o shodě (původní), 2) Název společnosti, 3) Adresa, 4) Technická dokumentace, 5) Výrobce níže uvedeného stroje, 6) Prohlašuje, že tento stroj, 7) Je v souladu s následujícími směrnicemi a směrnicemi transponovanými do vnitrostátního práva, 8) Pro stroje v příloze IV, 9) Číslo certifikátu, 10) Notifikační orgán, 15) harmonizované normy použity, 16) Norem a technických pravidel používaných, 17) Místo vydání, 18) Datum vydání, 19) Jméno podepsaného, 20) Funkce, 21) Podpis.

da : 1) EF Overensstemmelseserklæring (original), 2) Firmaet, 3) Adresse, 4) tekniske dossier, 5) Konstruktør af nedenfor beskrevne maskine, 6) Erklærer, at denne maskine, 7) Overholder nedennævnte direktiver og disses gennemførelse til national ret, 8) For maskiner under bilag IV, 9) Certifikat nummer, 10) Bemyndigede organ, 15) harmoniserede standarder, der anvendes, 16) standarder eller tekniske regler, 17) Udfærdiget i, 18) Dato, 19) Underskrivers navn, 20) Funktion, 21) Underskrift.

de : 1) EG-Konformitätserklärung (original), 2) Die Firma, 3) Adresse, 4) Technischen Unterlagen, 5) Hersteller der nachfolgend beschriebenen Maschine, 6) Erklärt, dass diese Maschine, 7) den folgenden Richtlinien und deren Umsetzung in die nationale Gesetzgebung entspricht, 8) Für die Maschinen laut Anhang IV, 9) Bescheinigungsnummer, 10) Benannte Stelle, 15) angewandten harmonisierten Normen, 16) angewandten sonstigen technischen Normen und Spezifikationen, 17) Ausgestellt in, 18) Datum, 19) Name des Unterzeichners, 20) Funktion, 21) Unterschrift.

el : 1) Δήλωση συμμόρφωσης CE (πρωτότυπο), 2) Η εταιρεία, 3) Διεύθυνση, 4) τεχνικό φάκελο, 5) Κατασκευάστρια του εξής περιγραφόμενου μηχανήματος, 6) Δηλώνει ότι αυτό το μηχάνημα, 7) Είναι σύμφωνο με τις εξής οδηγίες και τις προσαρμογές τους στο εθνικό δίκαιο, 8) Για τα μηχανήματα παραρτήματος IV, 9) Αριθμός δήλωσης, 10) Κοινοποιημένος φορέας, 15) εναρμονισμένα πρότυπα που χρησιμοποιούνται, 16) Πρότυπα ή τεχνικούς κανόνες που χρησιμοποιούνται, 16) Είναι σύμφωνο με τα εξής πρότυπα και τεχνικές διατάξεις, 17) Εν, 18) Ημερομηνία, 19) Όνομα του υπογράφοντος, 20) Θέση, 21) Υπογραφή.

es : 1)Declaración DE de conformidad (original), 2) La sociedad, 3) Dirección, 4) expediente técnico, 5) Constructor de la máquina descrita a continuación, 6) Declara que esta máquina, 7) Está conforme a las siguientes directivas y a sus transposiciones en derecho nacional, 8) Para las máquinas anexo IV, 9) Número de certificación, 10) Organismo notificado, 15) normas armonizadas utilizadas, 16) Otras normas o especificaciones técnicas utilizadas, 17) Hecho en, 18) Fecha, 19) Nombre del signatario, 20) Función, 21) Firma.

et : 1) EÜ vastavusdeklaratsioon (algupärane), 2) Äriühing, 3) Aadress, 4) Tehniline dokumentatsioon, 5) Seadme tootja, 6) Kinnitab, et see toode, 7) On vastavuses järgmiste direktiivide ja nende riigisisesesse õigusesse ülevõtmiseks vastuvõetud õigusaktidega, 8) IV lisas loetletud seadmete puhul, 9) Tunnistuse number, 10) Sertifitseerimisasutus, 15) kasutatud ühtlustatud standarditele, 16) Muud standardites või spetsifikatsioonides kasutatakse, 17) Väljaandmise koht, 18) Väljaandmise aeg, 19) Allkirjastaja nimi, 20) Amet, 21) Allkiri.

fi : 1) EY-vaatimustenmukaisuusvakuutus (alkuperäiset), 2) Yritys, 3) Osoite, 4) teknisen eritelmän, 5) Jäljessä kuvatun koneen valmistaja, 6) Vakuuttaa, että tämä kone, 7) Täyttää seuraavien direktiivien sekä niitä vastaavien kansallisten säännösten vaatimukset, 8) Liitteen IV koneiden osalta, 9) Todistuksen numero, 10) Ilmoitettu laitos, 15) yhdenmukaistettuja standardeja käytetään, 16) muita standardeja tai eritelmät, 17) Paikka, 18) Aika, 19) Allekirjoittajan nimi, 20) Toimi, 21) Allekirjoitus.

ga : 1) « EC »dearbhú comhréireachta (bunaidh), 2) An comhlacht, 3) Seoladh, 4) comhad teicniúil, 5) Déantóir an innill a thuairiscítear thíos, 6) Dearbhaíonn sé go bhfuil an t-inneall, 7) Go gcloíonn sé le na treoracha seo a leanas agus a trasuímh isteach i ndlí náisiúnta, 8) Le haghaidh innill an aguisín IV, 9) Uimhir teastais, 10) Comhlacht a chuireadh i bhfios, 15) caighdeáin comhchuibhithe a úsáidtear, 16) caighdeáin eile nó sonraíochtaí teicniúla a úsáidtear, 17) Déanta ag, 18) Dáta, 19) Ainm an tsínitheora, 20) Feidhm, 21) Síniú.

hu : 1) CE megfelelőségi nyilatkozat (eredeti), 2) A vállalat, 3) Cím, 4) műszaki dokumentáció, 5) Az alábbi gép gyártója, 6) Kijelenti, hogy a gép, 7) Megfelel az alábbi irányelveknek valamint azok honosított előírásainak, 8) A IV. melléklet gépeihez, 9) Bizonylati szám, 10) Értesített szervezet, 15) felhasznált harmonizált szabványok, 16) egyéb felhasznált műszaki szabványok és előírások hivatkozásai, 17) Kelt (hely), 18) Dátum, 19) Aláíró neve, 20) Funkció, 21) Aláírás.

is : 1) (Samræmisvottorð ESB (upprunalega), 2) Fyrirtækið, 3) Aðsetur, 4) Tæknilegar skrá, 5) Smiður tækisins sem lýst er hér á eftir, 6) Staðfestir að tækið, 7) Samræmist eftirfarandi stöðlum og staðfærslu þeirra með hliðsjón af þjóðarrétti, 8) Fyrir tækin í aukakafla IV, 9) Staðfestingarnúmer, 10) Tilkynnt til, 15) samhæfða staðla sem notaðir, 16) önnur staðlar eða forskriftir notað, 17) Staður, 18) Dagsetning, 19) Nafn undirritaðs, 20) Staða, 21) Undirskrift.

it : 1) Dichiarazione CE di conformità (originale), 2) La società, 3) Indirizzo, 4) fascicolo tecnico, 5) Costruttore della macchina descritta di seguito, 6) Dichiara che questa macchina, 7) È conforme alle direttive seguenti e alle relative trasposizioni nel diritto nazionale, 8) Per le macchine Allegato IV, 9) Numero di Attestazione, 10) Organismo notificato, 15) norme armonizzate applicate, 16) altre norme e specifiche tecniche applicate, 17) Stabilita a, 18) Data, 19) Nome del firmatario, 20) Funzione, 21) Firma.

lt : 1) CE atitikties deklaracija (originalas), 2) Bendrovė, 3) Adresas, 4) Techninė byla, 5) Žemiau nurodytas įrenginio gamintojas, 6) Pareiškia, kad šis įrenginys, 7) Atitinka toliau nurodytas direktyvas ir į nacionalinius teisės aktus perkeltas jų nuostatas, 8) IV priedas dėl mašinų, 9) Sertifikato Nr, 10) Paskelbtoji įstaiga, 15) suderintus standartus naudojamus, 16) Kiti standartai ir techninės specifikacijas, 17) Pasirašyta, 18) Data, 19) Pasirašiusio asmens vardas ir pavardė, 20) Pareigos, 21) Parašas.

lv : 1) EK atbilstības deklarācija (oriģināls), 2) Uzņēmums, 3) Adrese, 4) tehniskās lietas, 5) Tālāk aprakstītās iekārtas ražotājs, 6) Apliecina, ka šī iekārta, 7) Ir atbilstoša tālāk norādītajām direktīvām un to transpozīcijai nacionālajā likumdošanā, 8) Iekārtām IV pielikumā, 9) Apliecības numurs, 10) Reģistrētā organizācija, 15) lietotajiem saskaņotajiem standartiem, 16) lietotajiem tehniskajiem standartiem un specifikācijām, 17) Sastādīts, 18) Datums, 19) Parakstītāja vārds, 20) Amats, 21) Paraksts.

mt : 1) Dikjarazzjoni ta' Konformità KE (oriġinali), 2) Il-kumpanija, 3) Indirizz, 4) fajl tekniku, 5) Manifattriċi tal-magna deskritta hawn isfel, 6) Tiddikjara li din il-magna, 7) Hija konformi hija konformi mad-Direttivi segwenti u l-liġijiet li jimplimentawhom fil-liġi nazzjonali, 8) Għall-magni fl-Anness IV, 9) Numru taċ-ċertifikat, 10) Entità nnotifikata, 15) l-istandards armonizzati użati, 16) standards tekniċi u speċifikazzjonijiet oħra użati, 17) Magħmul f', 18) Data, 19) Isem il-firmatarju, 20) Kariga, 21) Firma.

nl : 1) EG-verklaring van overeenstemming (oorspronkelijke), 2) Het bedrijf, 3) Adres, 4) technisch dossier, 5) Constructeur van de hierna genoemde machine, 6) Verklaart dat deze machine, 7) In overeenstemming is met de volgende richtlijnen en hun omzettingen in het nationale recht, 8) Voor machines van bijlage IV, 9) Goedkeuringsnummer, 10) Aangezegde instelling, 15) gehanteerde geharmoniseerde normen, 16) andere gehanteerde technische normen en specificaties, 17) Opgemaakt te, 18) Datum, 19) Naam van ondergetekende, 20) Functie, 21) Handtekening.

no : 1) CE-samsvarserklæring (original), 2) Selskapet, 3) Adresse, 4) tekniske arkiv, 5) Fabrikant av følgende maskin, 6) Erklærer at denne maskinen, 7) Oppfyller kravene i følgende direktiver, med nasjonale gjennomføringsbestemmelser, 8) For maskinene i tillegg IV, 9) Attestnummer, 10) Notifisert organ, 15) harmoniserte standarder som brukes, 16) Andre standarder og spesifikasjoner brukt, 17) Utstedt i, 18) Dato, 19) Underskriverens navn, 20) Stilling, 21) Underskrift.

pl : 1) Deklaracja zgodności CE (oryginalne), 2) Spółka, 3) Adres, 4) dokumentacji technicznej, 5) Wykonawca maszyny opisanej poniżej, 6) Oświadcza, że ta maszyna, 7) Jest zgodna z następującymi dyrektywami i odpowiadającymi przepisami prawa krajowego, 8) Dla maszyn załącznik IV, 9) Numer certyfikatu, 10) Jednostka certyfikująca, 15) zastosowanych norm zharmonizowanych, 16) innych zastosowanych norm technicznych i specyfikacji, 17) Sporządzono w, 18) Data, 19) Nazwisko podpisującego, 20) Stanowisko, 21) Podpis.

pt : 1) Declaração de conformidade CE (original), 2) A empresa, 3) Morada, 4) processo técnico, 5) Fabricante da máquina descrita abaixo, 6) Declara que esta máquina, 7) Está em conformidade às directivas seguintes e às suas transposições para o direito nacional, 8) Para as máquinas no anexo IV, 9) Número de certificado, 10) Entidade notificada, 15) normas harmonizadas utilizadas, 16) outras normas e especificações técnicas utilizadas, 17) Elaborado em, 18) Data, 19) Nome do signatário, 20) Cargo, 21) Assinatura.

ro : 1) Declarație de conformitate CE (originală), 2) Societatea, 3) Adresa, 4) cărtii tehnice, 5) Constructor al mașinii descrise mai jos, 6) Declară că prezenta mașină, 7) Este conformă cu directivele următoare și cu transpunerea lor în dreptul național, 8) Pentru mașinile din anexa IV, 9) Număr de atestare, 10) Organism notificat, 15) standardele armonizate utilizate, 16) alte standarde si specificatii tehnice utilizate, 17) Întocmit la, 18) Data, 19) Numele persoanei care semnează, 20) Funcția, 21) Semnătura.

sk : 1) ES vyhlásenie o zhode (pôvodný), 2) Názov spoločnosti, 3) Adresa, 4) technickej dokumentácie, 5) Výrobca nižšie opísaného stroja, 6) Vyhlasuje, že tento stroj, 7) Je v súlade s nasledujúcimi smernicami a smernicami transponovanými do vnútroštátneho práva, 8) Pre stroje v prílohe IV, 9) Číslo certifikátu, 10) Notifikačný orgán, 15) použité harmonizované normy, 16) použité iné technické normy a predpisy, 17) Miesto vydania, 18) Dátum vydania, 19) Meno podpisujúceho, 20) Funkcia, 21) Podpis.

sl : 1) ES Izjava o ustreznosti (izvirna), 2) Družba. 3) Naslov. 4) tehnične dokumentacije, 5) Proizvajalac tukaj opisanega stroja, 6) Izjavlja, da je ta stroj, 7) Ustreza naslednjim direktivam in njihovi transpoziciji v državno pravo, 8) Za stroje priloga IV, 9) Številka potrdila, 10) Obvestilo organu, 15) uporabljene harmonizirane standarde, 16) druge uporabljene tehnične standarde in zahteve, 17) V, 18) Datum, 19) Ime podpisnika, 20) Funkcija, 21) Podpis.

sv : 1) CE-försäkran om överensstämmelse (original), 2) Företaget, 3) Adress, 4) tekniska dokumentationen, 5) Konstruktör av nedan beskrivna maskin, 6) Försäkrar att denna maskin, 7) Överensstämmer med nedanstående direktiv och införlivandet av dem i nationell rätt, 8) För maskinerna i bilaga IV, 9) Nummer för godkännande, 10) Organism som underrättats, 15) Harmoniserade standarder som använts, 16) andra tekniska standarder och specifikationer som använts, 17) Upprättat i, 18) Datum, 19) Namn på den som undertecknat, 20) Befattning, 21) Namnteckning.

647562 (04/04/2024)
M... P ST3B S4 EU

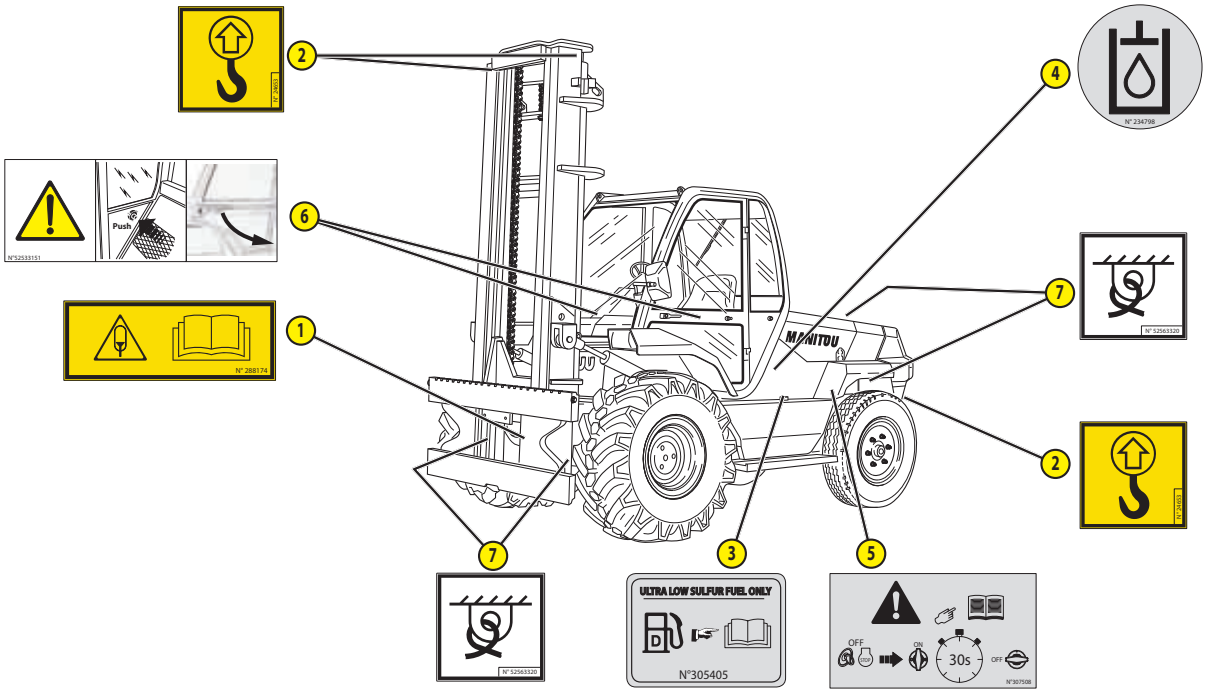
SAFETY PLATES AND STICKERS

⚠ IMPORTANT ⚠

Clean all the stickers and safety plates to make them legible.
It is essential to replace stickers and safety plates which are illegible or damaged.
Check the presence of stickers and safety plates after replacing any spare parts.

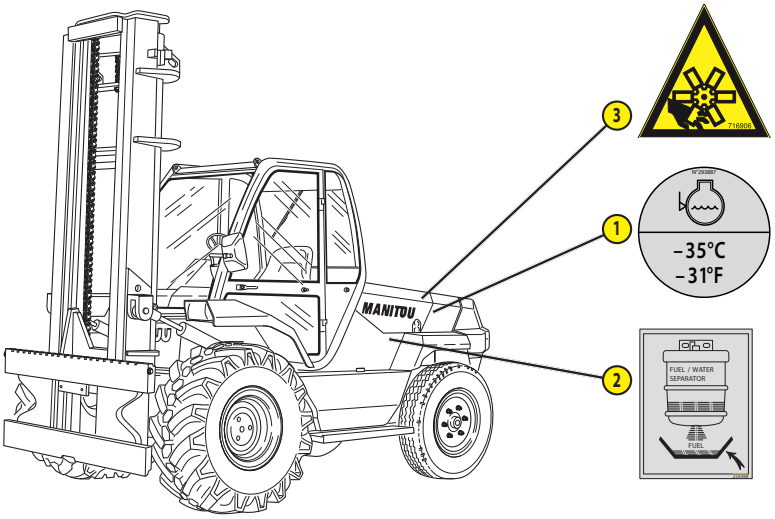
EXTERNAL PLATES AND STICKERS

REF.	PART NO.	DESCRIPTION
1	288174	- Accumulator Instructions
2	24653	- Slinging point
3	305405	- Diesel fuel
4	234798	- Hydraulic oil
5	307508	- Battery cut-off instruction
6	52533151	- Door opening instruction
7	52563320	- Tie-down point



STICKERS AND PLATES UNDER THE ENGINE HOOD

REF.	PART NO.	DESCRIPTION
1	293887	- Anti-freeze
2	259398	- Water / diesel separator
3	716906	- Fan hazard

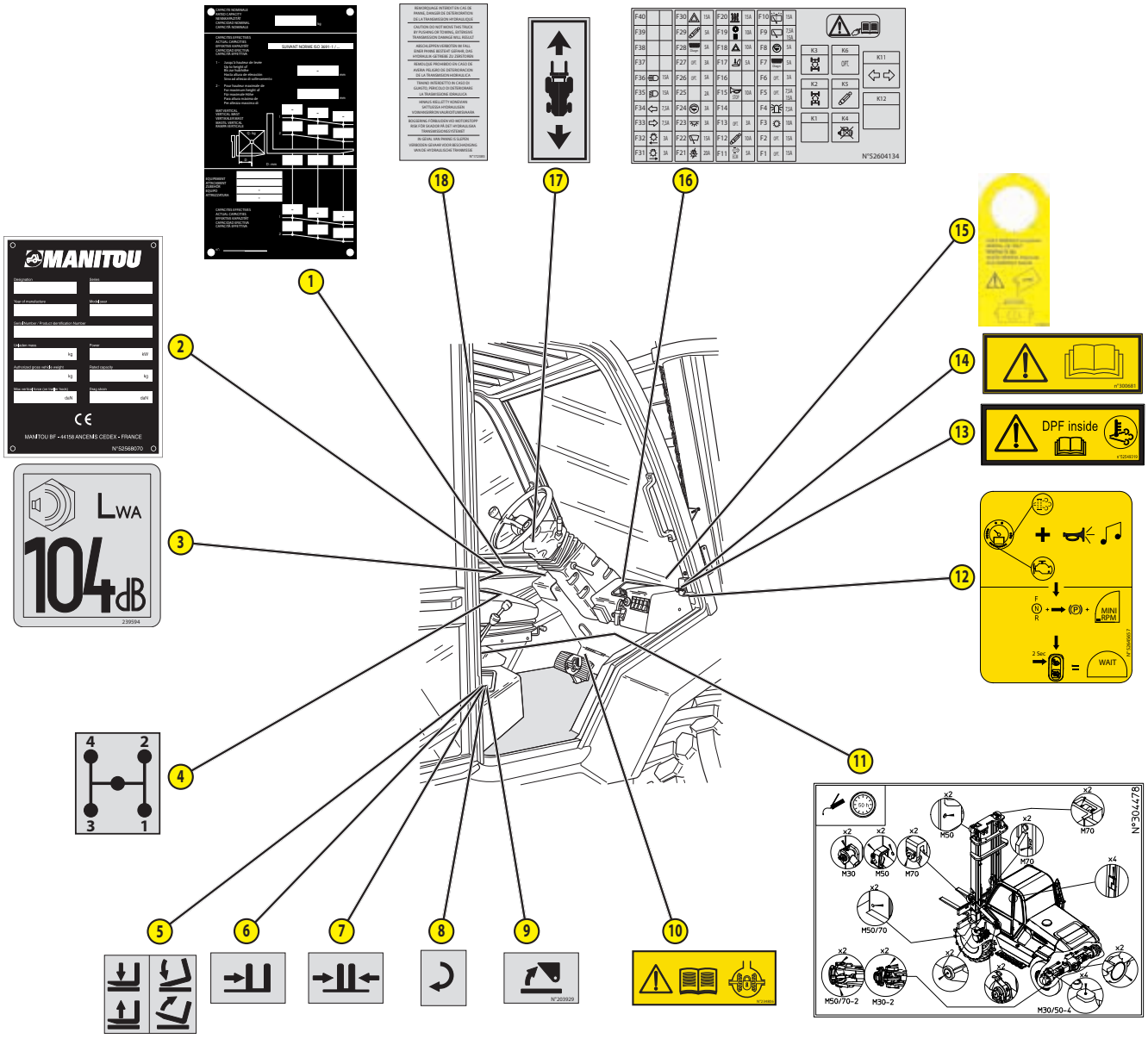


647562 (04/04/2024)
M ... P ST3B S4 EU

STICKERS AND PLATES IN THE CAB

REF.	PART NO.	DESCRIPTION
1	Consult your dealer	- Load chart (according to model)
2	Consult your dealer	- Manufacturer's plate
3	239594	- Sound power 104dB
4	33460	- Gear lever (except for M ... H)
5	200042	- Manipulator function
6	203792	
7	203791	
8	203928	
9	203929	
10	234806	- Differential lock instruction
11	304478	- Greasing instructions
12	52645657	- FAP instruction
13	52549319	- FAP safety instruction
14	268491	- Brake fluid instruction
15	300681	- Safety instruction
16	52604134	- Fuses and relays
17	76571	- Reversing shift
18	172385	- Towing prohibited (only for M ... H)

* The load chart referred to in the notice is a standard or blank chart. Each lift truck which can be used with an attachment has a specific chart. To obtain this, consult your dealer.



647562 (04/04/2024)
M ... P ST3B S4 EU

IDENTIFICATION OF THE LIFT TRUCK

As our policy is to promote a constant improvement in our products, our range of lift trucks may undergo certain modifications, without any obligation for us to advise our customers.

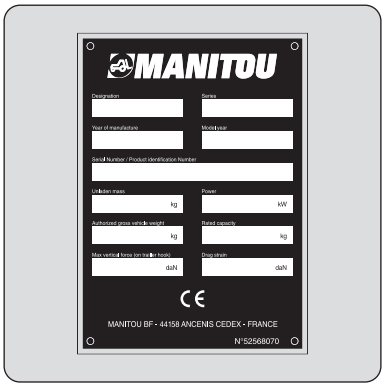
When you order parts, or when you require any technical information, always specify the following information.

NOTE: In order to be able to communicate all these numbers more easily, it is recommended that they are written in the spaces provided when the lift truck is received.

For any further technical information regarding your lift truck refer to: CHARACTERISTICS.

LIFT TRUCK MANUFACTURER'S PLATE

"Designation" Designation	
"Series" Series	
"Year of manufacture" Year of manufacture	
"Model year" Model year	
"Serial Number / Product Identification Number" Serial number/Product identification number	
"Unladen mass" Unladen weight	
"Power" Power	
"Authorized gross vehicle weight" Authorised gross vehicle weight	
"Rated capacity" Rated capacity	
"Max vertical force (on trailer hook)" Maximum vertical force (on trailer hook)	
"Drag strain" Tractive effort	



ENGINE

"MODEL" Model	
"SERNO" Serial number	
"CODE" Supplier code	

MECHANICAL GEARBOX

M 26/30/40/50-2
M 26/30/40/50-4

Type	
Serial No.	
Part No. MANITOU	

HYDROSTATIC GEARBOX

M 26/30/40/50-2 H

Type	
Serial No.	
Part No. MANITOU	

HYDROSTATIC TRANSMISSION

M 26/30/40/50-2 H

Supplier reference	
"Fabr- Nr" Serial number	
"Baujahr" Year/month	

HYDROSTATIC PUMP

M 26/30/40/50-2 H

"CNR" Part No. MANITOU	
"TYP" Type of pump	
"MNR" Identification number	
"SN" Serial number	

HYDROSTATIC MOTOR

M 26/30/40/50-2 H

Supplier reference	
"Fabr- Nr" Serial number	
"Baujahr" Year/month	

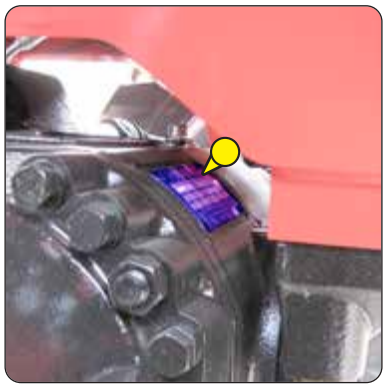
FRONT AXLE

Type	
Serial number	
Part No. MANITOU	

REAR AXLE

M 26/30/40/50-4

Type	
Serial number	
Part No. MANITOU	



OVERHEAD GUARD / CAB

"Constructeur" Manufacturer	
"Type Cabine" Cabin type	
"Numéro de série" Serial number	

MASTS WITH ROLLERS

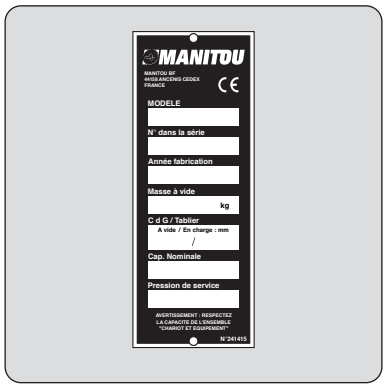
Part No. MANITOU	

FRAME

Serial number/Product identification number	

ATTACHMENT MANUFACTURER'S PLATE

"MODELE" Model	
"N° série" Serial number	
"Année Fabrication" Year of manufacture	
"Masse à vide" Unladen weight	
"Centre de gravité" Centre of gravity	
"Capacité Nominale" Rated capacity	
"Pression service" Working pressure	



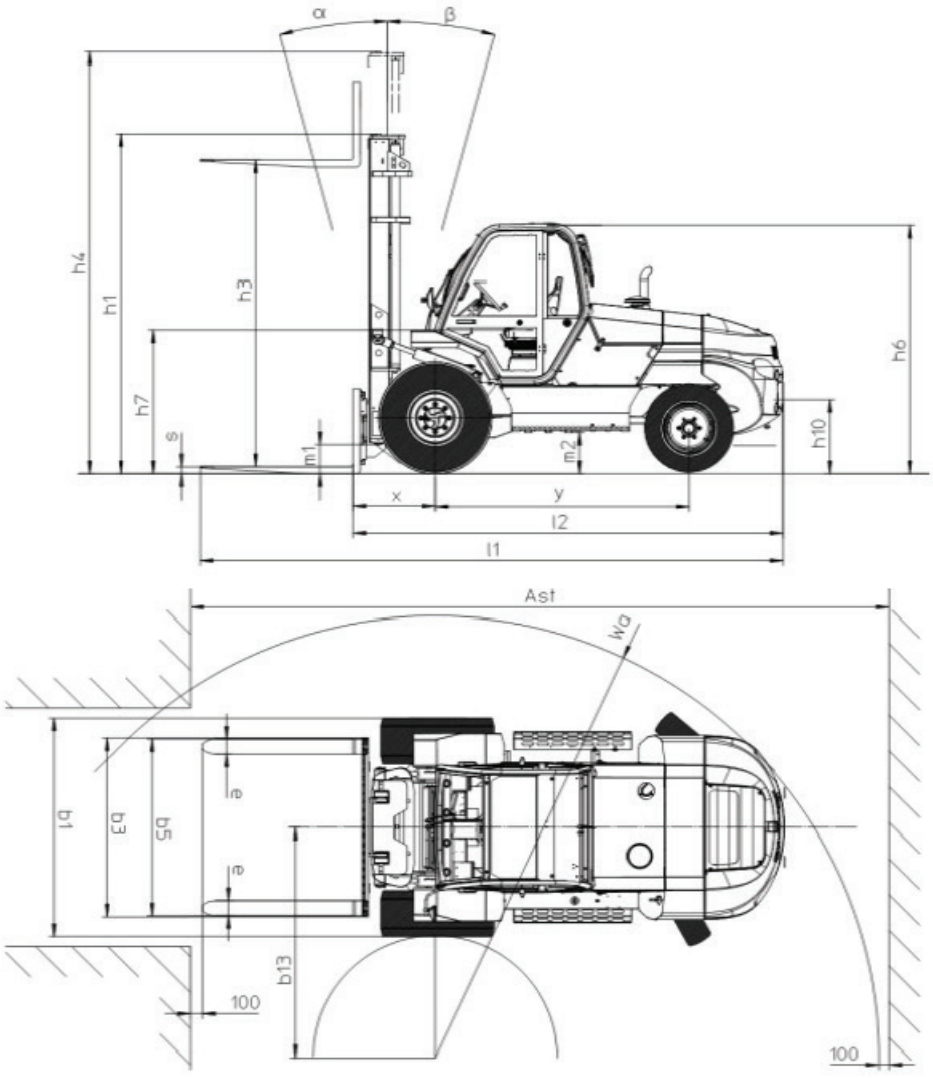
CHARACTERISTICS M 26-2 P ST3B S4 EU M 26-4 P ST3B S4 EU M 26-2 H P ST3B S4 EU

NOTE: The specifications given are not binding on the manufacturer and can be modified without prior notification.

DESIGNATION	1.1	Manufacturer		MANITOU		
	1.2	Model type		M26-2	M26-2H	M26-4
	1.3	Propulsion: battery, diesel, petrol, LPG, mains		Diesel		
	1.4	Type of operation: manual, pedestrian, standing, seated		Seated		
	1.5	Rated capacity/load on forks (basic capacity)	Q (t)	2,6		
	1.6	Centre of gravity of load	c (mm)	500		
	1.8	Distance from the load bearing surface to the centre of the front axle	x (mm)	747		
	1.9	Wheelbase	y (mm)	1995		
WEIGHT	2.1	Weight of truck in working order	kg	5645	5645	5685
	2.2	Load on front axle when lift truck laden	kg	6965	6965	6667
	2.2.1	Load on rear axle when lift truck laden	kg	1280	1280	1618
	2.3	Load on front axle when lift truck unladen	kg	2740	2740	2442
	2.3.1	Load on rear axle when lift truck unladen	kg	2905	2905	3243
RUNNING CARRIAGE	3.1	Wheel equipment: tyre (V), super-elastic (SE), tyre (L)		L		
	3.2	Size of front wheels	" / mm	14,5R20 18PR MPT80	14,5R20 18PR MPT80	400/70-20 150B T37
	3.3	Size of rear wheels	" / mm	10R17,5 G291 GY	10R17,5 G291 GY	10,5/18 10PR I317
	3.5	Number of front wheels (x = drive wheel)		2x		
	3.5.1	Number of rear wheels (x = drive wheel)		2	2	2x
	3.6	Front track (middle of wheels)	b10 (mm)	1550	1550	1520
	3.7	Rear track (middle of wheels)	b11 (mm)	1570	1570	1630
DIMENSIONS	4.1	Tilt of mast forward	α(°)	6		
	4.1.1	Tilt of mast backward	β (°)	12		
	4.2	Height of mast lowered	h1 (mm)	2749	2749	2738
	4.3	Normal free lift	h2 (mm)	90		
	4.4	Lift height	h3 (mm)	3700		
	4.5	Height of extended mast	h4 (mm)	4774	4774	4763
	4.7	Height of driver protection or cabin	h6 (mm)	2507	2507	2496
	4.7	Height of lowered driver protection (option)	h6* (mm)	-		
	4.7	Height of air-conditioned cabin (option)	h6**(mm)	2507	2507	2496
	4.8	Height of seat	h7 (mm)	1484	1484	1473
	4.12	Height of towing coupling	h10 (mm)	735	735	760
	4.19	Total length	l1 (mm)	4701		
	4.20	Length of forks at heel	l2 (mm)	3501		
	4.21	Overall width	b1 (mm)	1923	1923	1924
	4.22	Thickness of fork arms	s (mm)	40		
	4.22.1	Width of fork arms	e (mm)	125		
	4.22.2	Length of fork arms	l (mm)	1200		
	4.23	Fork carriage (in accordance DIN 15173 A/B)		FEM3		
	4.24	Width of fork carriage	b3 (mm)	1470		
	4.31	Ground clearance of mast	m1 (mm)	460	460	450
	4.32	Ground clearance at centre of wheel-base	m2 (mm)	440		
	4.33	Aisle width for 1000x1200 pallet widthwise	Ast (mm)	5360	5360	6180
	4.34	Aisle width for 800x1200 pallet lengthwise	Ast (mm)	5360	5360	6180
	4.35	Turning radius	Wa (mm)	3220	3220	4030
	4.36	Inner turning radius	b13 (mm)	300	300	1135

647562 (04/04/2024)
M ... P ST3B S4 EU

PERFORMANCES	5.1	Speed of travel laden	km/h	10		
	5.1.1	Speed of travel unladen	km/h	22		
	5.2	Rate of lift (laden)	m/s	-		
	5.2.1	Rate of lift (unladen)	m/s	0,3		
	5.3	Speed of lowering laden	m/s	-		
	5.3.1	Speed of lowering unladen	m/s	0,4		
	5.5	Nominal towing power laden	daN	-		
	5.5.1	Nominal towing power unladen	daN	1334	-	4250
	5.7	Slope laden	%	14		
	5.7.1	Slope unladen	%	21		
	5.9	Acceleration time laden	s	-		
	5.9.1	Acceleration time unladen	s	-		
	5.10	Service brake		Hydraulic power brake		
ENGINE SPECIFICATION	7.1	Engine manufacturer / Type		PERKINS 854F-E34T WF		
	7.2	Engine power (in accordance with ISO 1585)	kW	55KW		
	7.3	Nominal speed	min-1	2200		
	7.4	Number of cylinders / Capacity	cm3	4 / 3400		
	7.5	Fuel consumption (according to VDI cycle)	l/h	6,2		
MISCELLANEOUS	8.1	Speed control		Electrical		
	8.2	Working hydraulic pressure for attachments	Bars	185		
	8.3	Oil flow rate for attachments	L/min	97		
	8.4	Sound level in driver's ears (according to DIN 12053)	dB (A)	76		
	8.4	Guaranteed sound power level to the environment LwA (according to Directive 2000/14/CE modified by Directive 2005/88/CE)	dB (A)	104		

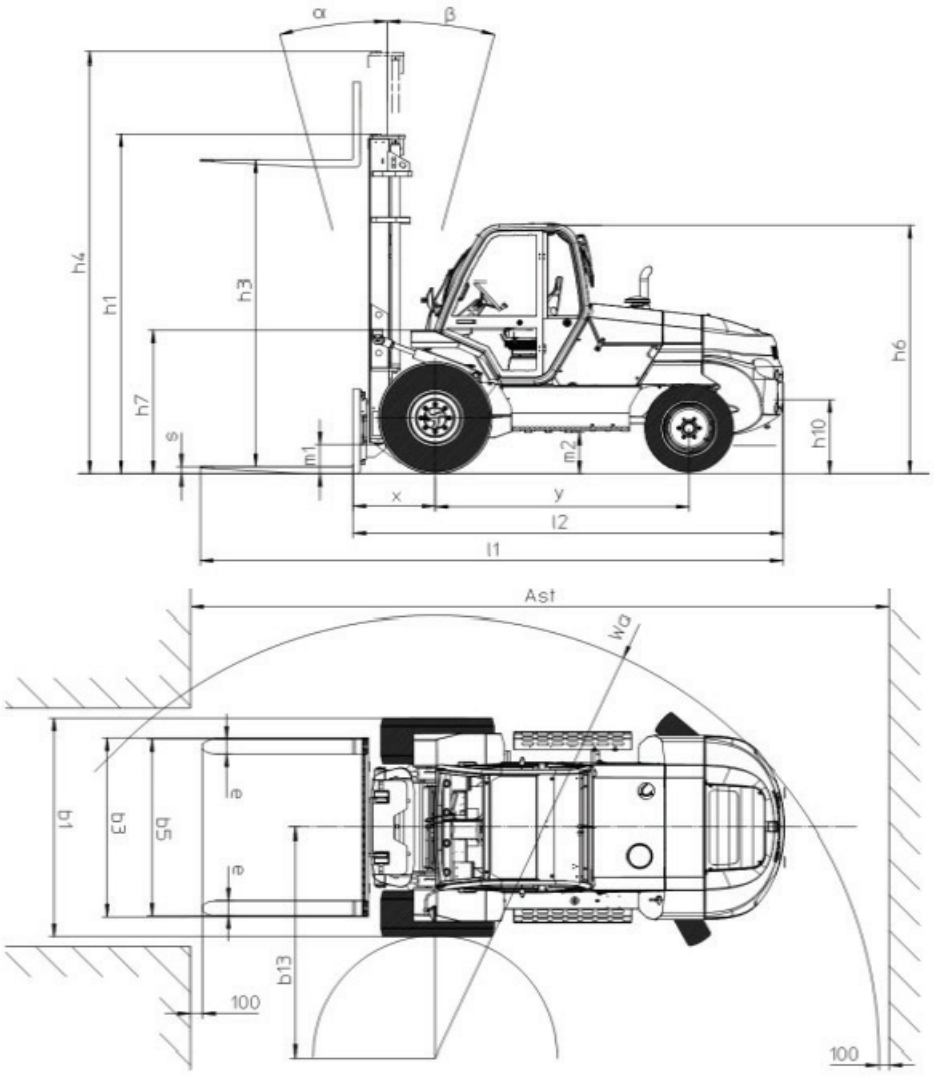


CHARACTERISTICS M 30-2 P ST3B S4 EU M 30-4 P ST3B S4 EU M 30-2 H P ST3B S4 EU

NOTE: The specifications given are not binding on the manufacturer and can be modified without prior notification.

DESIGNATION	1.1	Manufacturer		MANITOU		
	1.2	Model type		M30-2	M30-2H	M30-4
	1.3	Propulsion: battery, diesel, petrol, LPG, mains		Diesel		
	1.4	Type of operation: manual, pedestrian, standing, seated		Seated		
	1.5	Rated capacity/load on forks (basic capacity)	Q (t)	3		
	1.6	Centre of gravity of load	c (mm)	500		
	1.8	Distance from the load bearing surface to the centre of the front axle	x (mm)	747		
	1.9	Wheelbase	y (mm)	1995		
WEIGHT	2.1	Weight of truck in working order	kg	5950	5950	6020
	2.2	Load on front axle when lift truck laden	kg	7515	7515	7515
	2.2.1	Load on rear axle when lift truck laden	kg	1435	1435	1505
	2.3	Load on front axle when lift truck unladen	kg	2365	2365	2365
	2.3.1	Load on rear axle when lift truck unladen	kg	3585	3585	3655
RUNNING CARRIAGE	3.1	Wheel equipment: tyre (V), super-elastic (SE), tyre (L)		L		
	3.2	Size of front wheels	" / mm	14,5R20 18PR MPT80	14,5R20 18PR MPT80	400/70-20 150B T37
	3.3	Size of rear wheels	" / mm	10R17,5 134/132M G291	10R17,5 134/132M G291	10,5/80-18 10PR A317TL
	3.5	Number of front wheels (x = drive wheel)		2x		
	3.5.1	Number of rear wheels (x = drive wheel)		2	2	2x
	3.6	Front track (middle of wheels)	b10 (mm)	1550	1550	1520
	3.7	Rear track (middle of wheels)	b11 (mm)	1570	1570	1630
DIMENSIONS	4.1	Tilt of mast forward	α(°)	6		
	4.1.1	Tilt of mast backward	β (°)	12		
	4.2	Height of mast lowered	h1 (mm)	2749	2749	2738
	4.3	Normal free lift	h2 (mm)	90		
	4.4	Lift height	h3 (mm)	3700		
	4.5	Height of extended mast	h4 (mm)	4774	4774	4763
	4.7	Height of driver protection or cabin	h6 (mm)	2507	2507	2496
	4.7	Height of lowered driver protection (option)	h6* (mm)	-		
	4.7	Height of air-conditioned cabin (option)	h6**(mm)	2507	2507	2496
	4.8	Height of seat	h7 (mm)	1484	1484	1473
	4.12	Height of towing coupling	h10 (mm)	735	735	760
	4.19	Total length	l1 (mm)	4701		
	4.20	Length of forks at heel	l2 (mm)	3501		
	4.21	Overall width	b1 (mm)	1923	1923	1924
	4.22	Thickness of fork arms	s (mm)	40		
	4.22.1	Width of fork arms	e (mm)	125		
	4.22.2	Length of fork arms	l (mm)	1200		
	4.23	Fork carriage (in accordance DIN 15173 A/B)		FEM3		
	4.24	Width of fork carriage	b3 (mm)	1470		
	4.31	Ground clearance of mast	m1 (mm)	460	460	450
	4.32	Ground clearance at centre of wheel-base	m2 (mm)	440		
	4.33	Aisle width for 1000x1200 pallet widthwise	Ast (mm)	5360	5360	6180
	4.34	Aisle width for 800x1200 pallet lengthwise	Ast (mm)	5360	5360	6180
	4.35	Turning radius	Wa (mm)	3220	3220	4030
	4.36	Inner turning radius	b13 (mm)	300	300	1135

PERFORMANCES	5.1	Speed of travel laden	km/h	10		
	5.1.1	Speed of travel unladen	km/h	22		
	5.2	Rate of lift (laden)	m/s	-		
	5.2.1	Rate of lift (unladen)	m/s	0,3		
	5.3	Speed of lowering laden	m/s	-		
	5.3.1	Speed of lowering unladen	m/s	0,4		
	5.5	Nominal towing power laden	daN	-	-	6290
	5.5.1	Nominal towing power unladen	daN	-	-	4250
	5.7	Slope laden	%	14		
	5.7.1	Slope unladen	%	21		
	5.9	Acceleration time laden	s	-		
	5.9.1	Acceleration time unladen	s	-		
	5.10	Service brake		Hydraulic power brake		
ENGINE SPECIFICATION	7.1	Engine manufacturer / Type		PERKINS 854F-E34T WF		
	7.2	Engine power (in accordance with ISO 1585)	kW	55KW		
	7.3	Nominal speed	min-1	2200		
	7.4	Number of cylinders / Capacity	cm3	4 / 3400		
	7.5	Fuel consumption (according to VDI cycle)	l/h	6,2		
MISCELLANEOUS	8.1	Speed control		Electrical		
	8.2	Working hydraulic pressure for attachments	Bars	185		
	8.3	Oil flow rate for attachments	L/min	97		
	8.4	Sound level in driver's ears (according to DIN 12053)	dB (A)	76		
	8.4	Guaranteed sound power level to the environment LwA (according to Directive2000/14/CE modified by Directive 2005/88/CE)	dB (A)	104		



CHARACTERISTICS

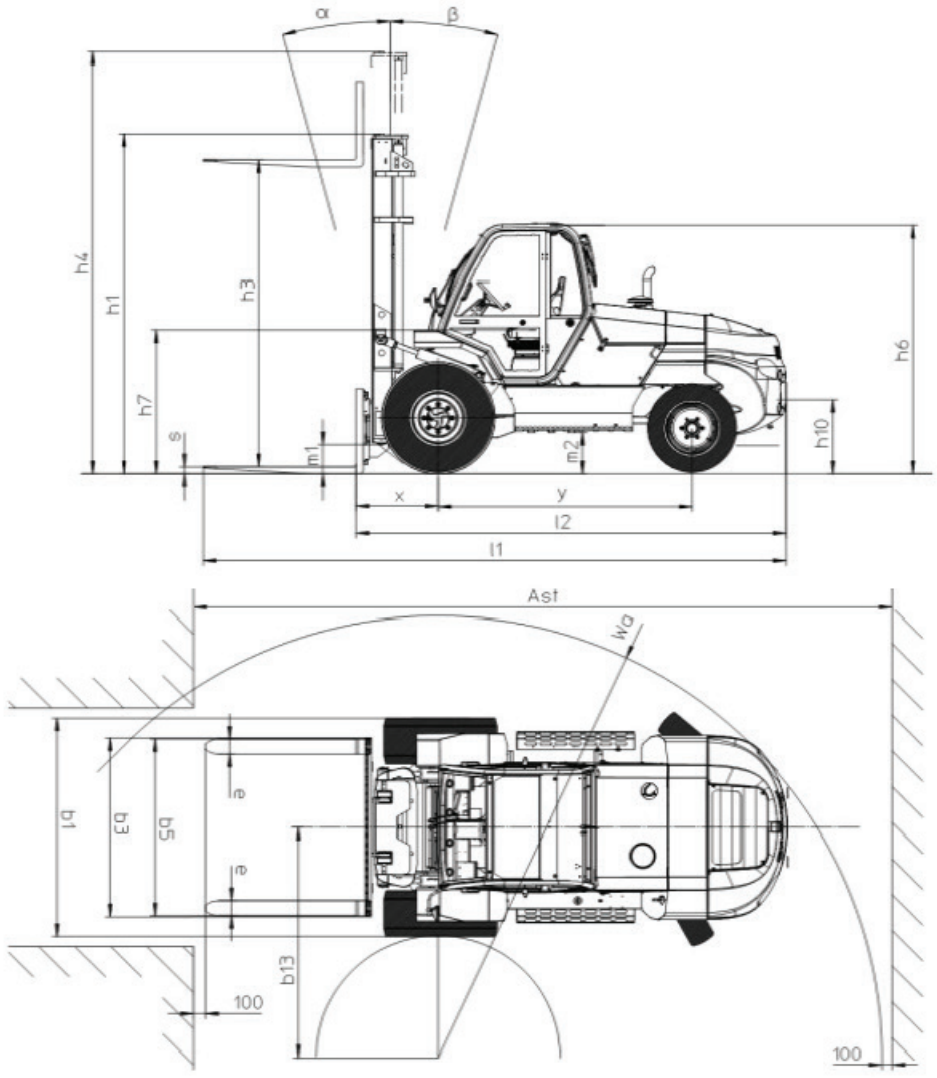
M 40-2 P ST3B S4 EU M 40-4 P ST3B S4 EU M 40-2 H P ST3B S4 EU

NOTE: The specifications given are not binding on the manufacturer and can be modified without prior notification.

DESIGNATION	1.1	Manufacturer		MANITOU		
	1.2	Model type		M40-2	M40-2H	M40-4
	1.3	Propulsion: battery, diesel, petrol, LPG, mains		Diesel		
	1.4	Type of operation: manual, pedestrian, standing, seated		Seated		
	1.5	Rated capacity/load on forks (basic capacity)	Q (t)	4		
	1.6	Centre of gravity of load	c (mm)	500		
	1.8	Distance from the load bearing surface to the centre of the front axle	x (mm)	763		
	1.9	Wheelbase	y (mm)	2060	2060	2120
WEIGHT	2.1	Weight of truck in working order	kg	6915	6915	6965
	2.2	Load on front axle when lift truck laden	kg	9075	9075	9010
	2.2.1	Load on rear axle when lift truck laden	kg	1840	1840	1955
	2.3	Load on front axle when lift truck unladen	kg	2625	2625	2625
	2.3.1	Load on rear axle when lift truck unladen	kg	4290	4290	4340
RUNNING CARRIAGE	3.1	Wheel equipment: tyre (V), super-elastic (SE), tyre (L)		L		
	3.2	Size of front wheels	" / mm	18x19,5 18PR A224	18x19,5 18PR A224	18-22,5 MPT06
	3.3	Size of rear wheels	" / mm	10R17,5 G291 GY	10R17,5 G291 GY	340/80 R18 XMCL
	3.5	Number of front wheels (x = drive wheel)		2x		
	3.5.1	Number of rear wheels (x = drive wheel)		2	2	2x
	3.6	Front track (middle of wheels)	b10 (mm)	1600	1600	1620
	3.7	Rear track (middle of wheels)	b11 (mm)	1640	1640	1740
DIMENSIONS	4.1	Tilt of mast forward	α(°)	15		
	4.1.1	Tilt of mast backward	β (°)	15		
	4.2	Height of mast lowered	h1 (mm)	2870	2870	2910
	4.3	Normal free lift	h2 (mm)	0		
	4.4	Lift height	h3 (mm)	3700		
	4.5	Height of extended mast	h4 (mm)	4760	4760	4800
	4.7	Height of driver protection or cabin	h6 (mm)	2460	2460	2500
	4.7	Height of lowered driver protection (option)	h6* (mm)	-		
	4.7	Height of air-conditioned cabin (option)	h6**(mm)	2460	2460	2500
	4.8	Height of seat	h7 (mm)	1440	1440	1480
	4.12	Height of towing coupling	h10 (mm)	690	690	760
	4.19	Total length	l1 (mm)	4858		
	4.20	Length of forks at heel	l2 (mm)	3658		
	4.21	Overall width	b1 (mm)	2057	2057	2080
	4.22	Thickness of fork arms	s (mm)	50		
	4.22.1	Width of fork arms	e (mm)	150		
	4.22.2	Length of fork arms	l (mm)	1200		
	4.23	Fork carriage (in accordance DIN 15173 A/B)		FEM3		
	4.24	Width of fork carriage	b3 (mm)	1670		
	4.31	Ground clearance of mast	m1 (mm)	250	250	295
	4.32	Ground clearance at centre of wheel-base	m2 (mm)	310	310	380
	4.33	Aisle width for 1000x1200 pallet widthwise	Ast (mm)	5560	5560	6732
	4.34	Aisle width for 800x1200 pallet lengthwise	Ast (mm)	5560	5560	6732
	4.35	Turning radius	Wa (mm)	3395	3395	4570
	4.36	Inner turning radius	b13 (mm)	200	200	1650

647562 (04/04/2024)
M ... P ST3B S4 EU

PERFORMANCES	5.1	Speed of travel laden	km/h	10		
	5.1.1	Speed of travel unladen	km/h	24		
	5.2	Rate of lift (laden)	m/s	0,4		
	5.2.1	Rate of lift (unladen)	m/s	0,4		
	5.3	Speed of lowering laden	m/s	0,4		
	5.3.1	Speed of lowering unladen	m/s	0,3		
	5.5	Nominal towing power laden	daN	6900	7410	10200
	5.5.1	Nominal towing power unladen	daN	-		
	5.7	Slope laden	%	-		
	5.7.1	Slope unladen	%	-		
	5.9	Acceleration time laden	s	-		
	5.9.1	Acceleration time unladen	s	-		
	5.10	Service brake		Hydraulic power brake		
ENGINE SPECIFICATION	7.1	Engine manufacturer / Type		PERKINS 854F-E34T WF		
	7.2	Engine power (in accordance with ISO 1585)	kW	55KW		
	7.3	Nominal speed	min-1	2200		
	7.4	Number of cylinders / Capacity	cm3	4 / 3400		
	7.5	Fuel consumption (according to VDI cycle)	l/h	6,9		
MISCELLANEOUS	8.1	Speed control		Electrical		
	8.2	Working hydraulic pressure for attachments	Bars	210		
	8.3	Oil flow rate for attachments	L/min	97		
	8.4	Sound level in driver's ears (according to DIN 12053)	dB (A)	76		
	8.4	Guaranteed sound power level to the environment LwA (according to Directive2000/14/CE modified by Directive 2005/88/CE)	dB (A)	104		

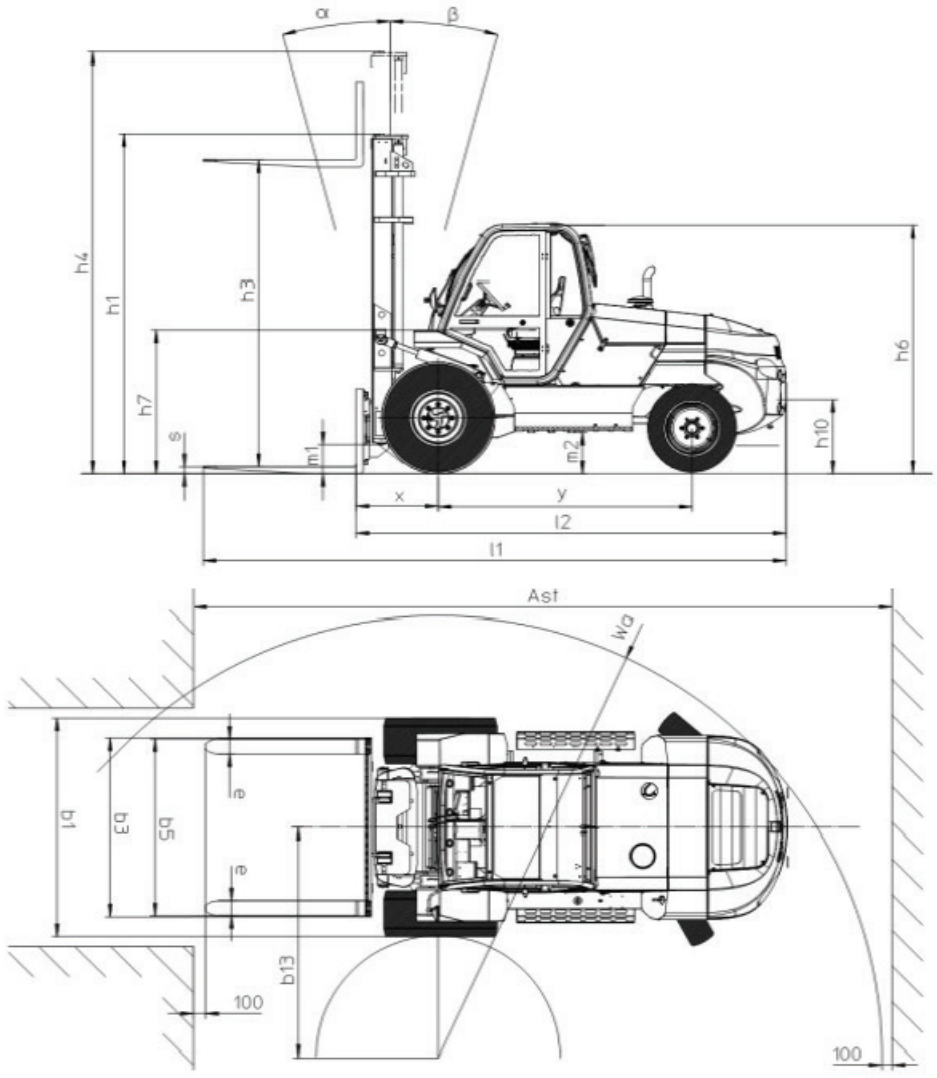


CHARACTERISTICS M 50-2 P ST3B S4 EU M 50-4 P ST3B S4 EU M 50-2 H P ST3B S4 EU

NOTE: The specifications given are not binding on the manufacturer and can be modified without prior notification.

DESIGNATION	1.1	Manufacturer		MANITOU		
	1.2	Model type		M50-2	M50-2H	M50-4
	1.3	Propulsion: battery, diesel, petrol, LPG, mains		Diesel		
	1.4	Type of operation: manual, pedestrian, standing, seated		Seated		
	1.5	Rated capacity/load on forks (basic capacity)	Q (t)	5		
	1.6	Centre of gravity of load	c (mm)	600		
	1.8	Distance from the load bearing surface to the centre of the front axle	x (mm)	773		
	1.9	Wheelbase	y (mm)	2060	2060	2120
WEIGHT	2.1	Weight of truck in working order	kg	8275	8275	8325
	2.2	Load on front axle when lift truck laden	kg	11615	11615	11520
	2.2.1	Load on rear axle when lift truck laden	kg	1660	1660	1805
	2.3	Load on front axle when lift truck unladen	kg	3285	3285	3285
	2.3.1	Load on rear axle when lift truck unladen	kg	4990	4990	5040
RUNNING CARRIAGE	3.1	Wheel equipment: tyre (V), super-elastic (SE), tyre (L)		L		
	3.2	Size of front wheels	" / mm	18-19.5 18PR A224	18-19.5 18PR A224	18-22.5 MPT-06
	3.3	Size of rear wheels	" / mm	10R17.5 G291 GY	10R17.5 G291 GY	340/80 R18 XMCL
	3.5	Number of front wheels (x = drive wheel)		2x		
	3.5.1	Number of rear wheels (x = drive wheel)		2	2	2x
	3.6	Front track (middle of wheels)	b10 (mm)	1600	1600	1620
	3.7	Rear track (middle of wheels)	b11 (mm)	1640	1640	1740
DIMENSIONS	4.1	Tilt of mast forward	α(°)	15		
	4.1.1	Tilt of mast backward	β (°)	15		
	4.2	Height of mast lowered	h1 (mm)	2870	2870	2910
	4.3	Normal free lift	h2 (mm)	0	-	-
	4.4	Lift height	h3 (mm)	3700		
	4.5	Height of extended mast	h4 (mm)	4760	4760	4800
	4.7	Height of driver protection or cabin	h6 (mm)	2460	2460	2500
	4.7	Height of lowered driver protection (option)	h6* (mm)	-		
	4.7	Height of air-conditioned cabin (option)	h6**(mm)	2460	2460	2500
	4.8	Height of seat	h7 (mm)	1440	1380	1400
	4.12	Height of towing coupling	h10 (mm)	690	690	760
	4.19	Total length	l1 (mm)	4948		
	4.20	Length of forks at heel	l2 (mm)	3748		
	4.21	Overall width	b1 (mm)	2057	2057	2080
	4.22	Thickness of fork arms	s (mm)	60		
	4.22.1	Width of fork arms	e (mm)	150		
	4.22.2	Length of fork arms	l (mm)	1200		
	4.23	Fork carriage (in accordance DIN 15173 A/B)		-		
	4.24	Width of fork carriage	b3 (mm)	1670		
	4.31	Ground clearance of mast	m1 (mm)	250	250	295
	4.32	Ground clearance at centre of wheel-base	m2 (mm)	310	310	380
	4.33	Aisle width for 1000x1200 pallet widthwise	Ast (mm)	5640	5640	6812
	4.34	Aisle width for 800x1200 pallet lengthwise	Ast (mm)	5640	5640	6812
	4.35	Turning radius	Wa (mm)	3465	3465	4640
	4.36	Inner turning radius	b13 (mm)	200	200	1650

PERFORMANCES	5.1	Speed of travel laden	km/h	10		
	5.1.1	Speed of travel unladen	km/h	24		
	5.2	Rate of lift (laden)	m/s	0,4		
	5.2.1	Rate of lift (unladen)	m/s	0,4		
	5.3	Speed of lowering laden	m/s	0,4		
	5.3.1	Speed of lowering unladen	m/s	0,3		
	5.5	Nominal towing power laden	daN	6900	7410	10200
	5.5.1	Nominal towing power unladen	N	-		
	5.7	Slope laden	%	-		
	5.7.1	Slope unladen	%	-		
	5.9	Acceleration time laden	s	-		
	5.9.1	Acceleration time unladen	s	-		
	5.10	Service brake		Hydraulic power brake		
ENGINE SPECIFICATION	7.1	Engine manufacturer / Type		PERKINS 854F-E34T WF		
	7.2	Engine power (in accordance with ISO 1585)	kW	55KW		
	7.3	Nominal speed	min-1	2200		
	7.4	Number of cylinders / Capacity	cm3	4		
	7.5	Fuel consumption (according to VDI cycle)	l/h	6,9		
MISCELLANEOUS	8.1	Speed control		Electrical		
	8.2	Working hydraulic pressure for attachments	Bars	230		
	8.3	Oil flow rate for attachments	L/min	97		
	8.4	Sound level in driver's ears (according to DIN 12053)	dB (A)	76		
	8.4	Guaranteed sound power level to the environment LwA (according to Directive2000/14/CE modified by Directive 2005/88/CE)	dB (A)	104		

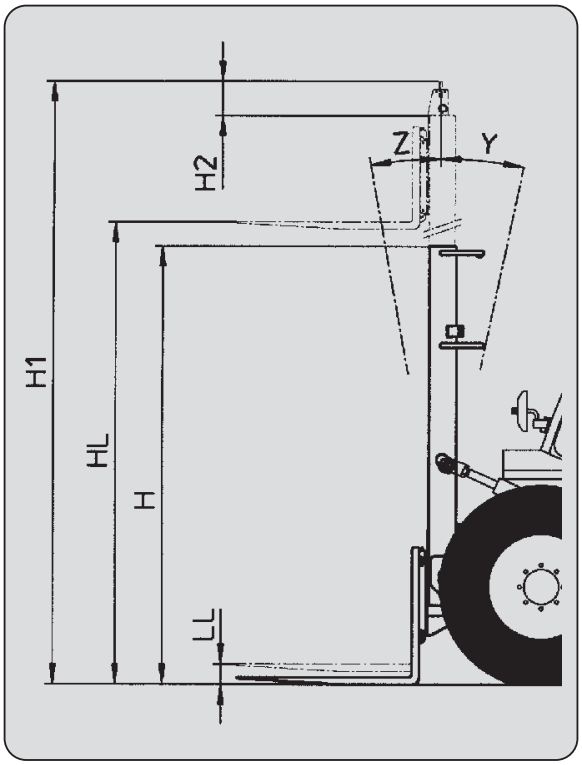


DOUBLE MAST WITH ALL-ROUND VISION							
MAST	HL	Z	Y	LL	H	H1	H2
3m00	3030	6	12	130	2305	4045	290
3m30	3330	6	12	130	2455	4345	290
3m50	3530	6	12	130	2555	4545	290
3m70	3730	6	12	130	2715	4745	230
4m00	4030	6	12	130	2905	5045	190
4m50	4530	6	12	130	3155	5545	190
5m00	5030	6	12	130	3405	6045	190
5m50	5530	6	12	130	3655	6545	190
6m00	6030	6	12	130	4015	7195	190

DOUBLE MAST WITH TOTAL FREE-ACTING LIFT							
MAST	HL	Z	Y	LL	H	H1	H2
3m00	3040	6	12	1383	2375	4032	167
3m30	3340	6	12	1533	2525	4332	167
3m50	3540	6	12	1633	2625	4532	167
3m70	3740	6	12	1793	2785	4732	167
4m00	4040	6	12	1983	2975	5032	167
4m50	4540	6	12	2233	3225	5532	167

TRIPLE MAST WITH TOTAL FREE-ACTING LIFT							
MAST	HL	Z	Y	LL	H	H1	H2
3m70	3740	6	12	1283	2275	4732	47
4m00	4040	6	12	1383	2375	5032	47
4m30	4340	6	12	1533	2525	5332	47
4m70	4740	6	12	1633	2625	5732	47
5m00	5040	6	12	1793	2785	6032	47
5m50	5540	6	12	1983	2975	6532	47
6m00	6040	6	12	2233	3225	7032	47
6m50	6540	6	12	2483	3475	7532	47
7m00	7040	6	12	2733	3725	8032	47

TRIPLE MAST WITHOUT FREE-ACTING LIFT							
MAST	HL	Z	Y	LL	H	H1	H2
5m505	5545	6	10	0	3055	6725	0



- HL (mm): Lift height in mm
- Z (°): Forward tilt
- Y (°): Backward tilt
- LL (mm): Free lift in mm
- H (mm): Overall height with mast folded in mm
- H1 (mm): Overall height with mast deployed in mm
- H2 (mm): Carriage overshooting in mm

RATED CAPACITY ➔

ACTUAL CAPACITIES (according to standard ISO 3691-1 / EN 22915-13) ➔

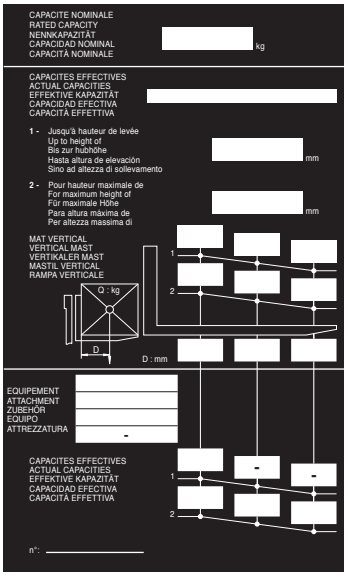
1 - Up to lift height of ➔

2 - For maximum height of ➔

VERTICAL MAST ➔

EQUIPMENT ➔

ACTUAL CAPACITIES ➔



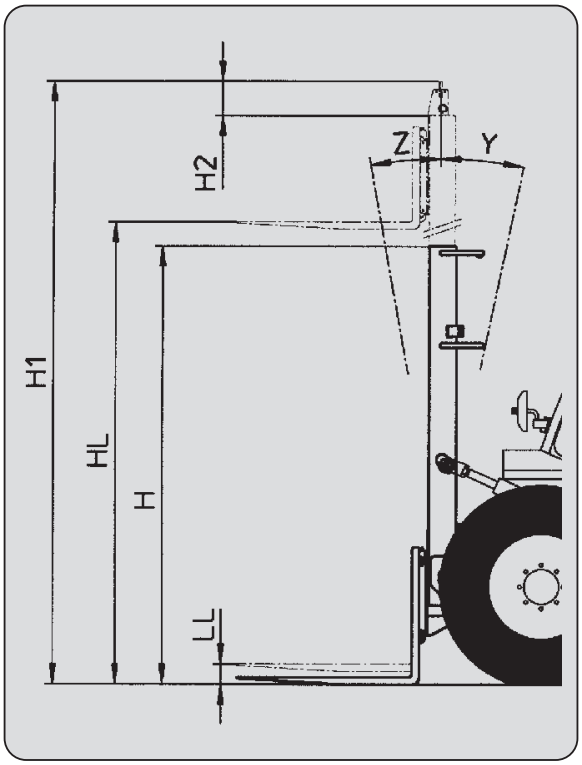
647562 (04/04/2024)
M ... P ST3B S4 EU

DOUBLE MAST WITH ALL-ROUND VISION							
MAST	HL	Z	Y	LL	H	H1	H2
3m00	3030	6°	12°	130	2305	4045	290
3m30	3330	6°	12°	130	2455	4345	290
3m50	3530	6°	12°	130	2555	4545	290
3m70	3730	6°	12°	130	2715	4745	230
4m00	4030	6°	12°	130	2905	5045	190
4m50	4530	6°	12°	130	3155	5545	190
5m00	5030	6°	12°	130	3405	6045	190
5m50	5530	6°	12°	130	3655	6545	190
6m00	6030	6°	12°	130	4015	7195	190

DOUBLE MAST WITH TOTAL FREE-ACTING LIFT							
MAST	HL	Z	Y	LL	H	H1	H2
3m00	3040	6°	12°	1383	2305	3962	167
3m30	3340	6°	12°	1533	2455	4262	167
3m50	3540	6°	12°	1633	2555	4462	167
3m70	3740	6°	12°	1793	2715	4662	167
4m00	4040	6°	12°	1983	2905	4962	167
4m50	4540	6°	12°	2233	3155	5462	167

TRIPLE MAST WITH TOTAL FREE-ACTING LIFT							
MAST	HL	Z	Y	LL	H	H1	H2
3m70	3740	6°	12°	1283	2205	4662	47
4m00	4040	6°	12°	1383	2305	4962	47
4m30	4340	6°	12°	1533	2455	5262	47
4m70	4740	6°	12°	1633	2555	5662	47
5m00	5040	6°	12°	1793	2715	5962	47
5m50	5540	6°	12°	1983	2905	6462	47
6m00	6040	6°	12°	2233	3155	6962	47
6m50	6540	6°	12°	2483	3405	7462	47
7m00	7040	6°	12°	2733	3655	7962	47

TRIPLE MAST WITHOUT FREE-ACTING LIFT							
MAST	HL	Z	Y	LL	H	H1	H2
5m505	5545	6°	10°	0	2985	6655	0



- HL (mm): Lift height in mm
- Z (°): Forward tilt
- Y (°): Backward tilt
- LL (mm): Free lift in mm
- H (mm): Overall height with mast folded in mm
- H1 (mm): Overall height with mast deployed in mm
- H2 (mm): Carriage overshooting in mm

RATED CAPACITY ➔

ACTUAL CAPACITIES (according to standard ISO 3691-1 / EN 22915-13) ➔

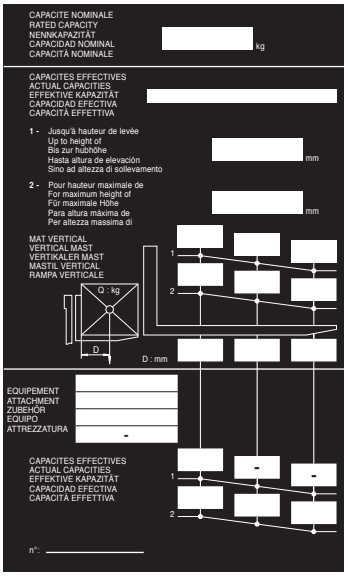
1 - Up to lift height of ➔

2 - For maximum height of ➔

VERTICAL MAST ➔

EQUIPMENT ➔

ACTUAL CAPACITIES ➔

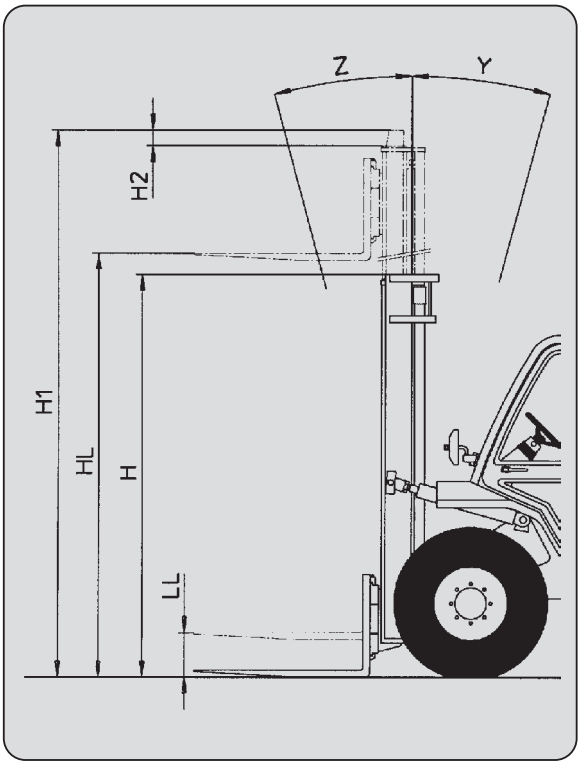


647562 (04/04/2024)
M ... P ST3B S4 EU

DOUBLE MAST WITH ALL-ROUND VISION							
MAST	HL	Z	Y	LL	H	H1	H2
3m00	3060	15°	15°	0	2560	4115	55
3m30	3360	15°	15°	0	2710	4415	55
3m50	3560	15°	15°	0	2810	4615	55
3m70	3760	15°	15°	0	2910	4815	55
4m00	4060	15°	15°	0	3060	5115	55
4m50	4560	15°	15°	0	3305	5615	55
5m00	5060	15°	15°	0	3560	6115	55

DOUBLE MAST WITH TOTAL FREE-ACTING LIFT							
MAST	HL	Z	Y	LL	H	H1	H2
3m00	3050	15°	15°	1518	2585	4117	32
3m30	3350	15°	15°	1668	2735	4417	32
3m50	3550	15°	15°	1768	2835	4617	32
3m70	3750	15°	15°	1868	2935	4817	32
4m00	4050	15°	15°	1968	3085	5517	32

TRIPLE MAST WITH TOTAL FREE-ACTING LIFT							
MAST	HL	Z	Y	LL	H	H1	H2
3m70	3750	15°	15°	1255	2310	4805	45
4m00	4050	15°	15°	1355	2410	5105	45
4m30	4350	15°	15°	1455	2510	5405	45
4m50	4550	15°	15°	1530	2585	5605	20
4m70	4750	15°	15°	1590	2645	5805	40
5m00	5050	10°	15°	1705	2760	6105	15
5m50	5550	10°	15°	1855	2910	6605	45
6m00	6050	10°	15°	2030	3085	7105	20



- HL (mm): Lift height in mm
- Z (°): Forward tilt
- Y (°): Backward tilt
- LL (mm): Free lift in mm
- H (mm): Overall height with mast folded in mm
- H1 (mm): Overall height with mast deployed in mm
- H2 (mm): Carriage overshooting in mm

RATED CAPACITY ➔

ACTUAL CAPACITIES (according to standard ISO 3691-1 / EN 22915-13) ➔

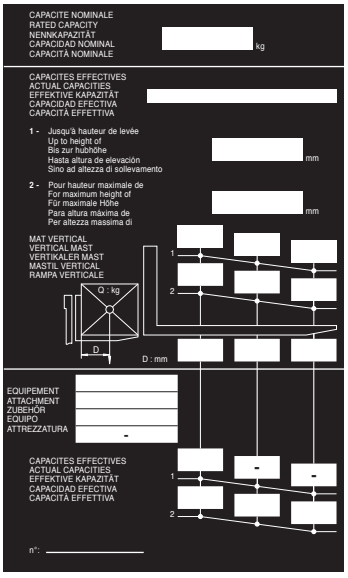
1 - Up to lift height of ➔

2 - For maximum height of ➔

VERTICAL MAST ➔

EQUIPMENT ➔

ACTUAL CAPACITIES ➔

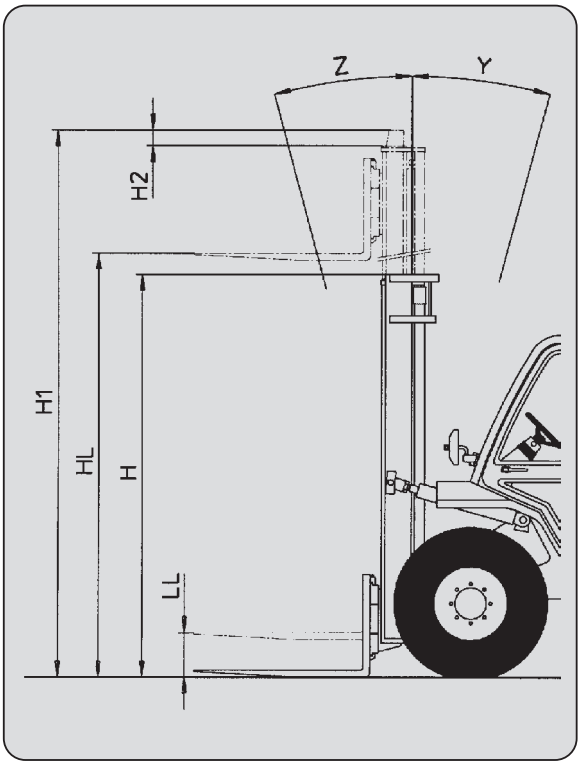


647562 (04/04/2024)
M ... P ST3B S4 EU

DOUBLE MAST WITH ALL-ROUND VISION							
MAST	HL	Z	Y	LL	H	H1	H2
3m00	3060	15°	15°	0	2560	4115	55
3m30	3360	15°	15°	0	2710	4415	55
3m50	3560	15°	15°	0	2810	4615	55
3m70	3760	15°	15°	0	2910	4815	55
4m00	4060	15°	15°	0	3060	5115	55
4m50	4560	15°	15°	0	3305	5615	55
5m00	5060	15°	15°	0	3560	6115	55
5m50	5560	15°	15°	0	3810	6615	55

DOUBLE MAST WITH TOTAL FREE-ACTING LIFT							
MAST	HL	Z	Y	LL	H	H1	H2
3m00	3060	15°	15°	1528	2585	4117	32
3m30	3360	15°	15°	1678	2735	4417	32
3m50	3560	15°	15°	1778	2835	4617	32
3m70	3760	15°	15°	1878	2935	4817	32
4m00	4060	15°	15°	1978	3085	5517	32

TRIPLE MAST WITH TOTAL FREE-ACTING LIFT							
MAST	HL	Z	Y	LL	H	H1	H2
3m70	3760	15°	15°	1265	2310	4805	45
4m00	4060	15°	15°	1365	2410	5105	45
4m30	4360	15°	15°	1465	2510	5405	45
4m50	4560	15°	15°	1540	2585	5605	20
4m70	4760	15°	15°	1600	2645	5805	40
5m00	5060	10°	15°	1715	2760	6105	15
5m50	5560	10°	15°	1865	2910	6605	45
6m00	6060	10°	15°	2040	3085	7105	20



- HL (mm): Lift height in mm
- Z (°): Forward tilt
- Y (°): Backward tilt
- LL (mm): Free lift in mm
- H (mm): Overall height with mast folded in mm
- H1 (mm): Overall height with mast deployed in mm
- H2 (mm): Carriage overshooting in mm

RATED CAPACITY ➔

ACTUAL CAPACITIES (according to standard ISO 3691-1 / EN 22915-13) ➔

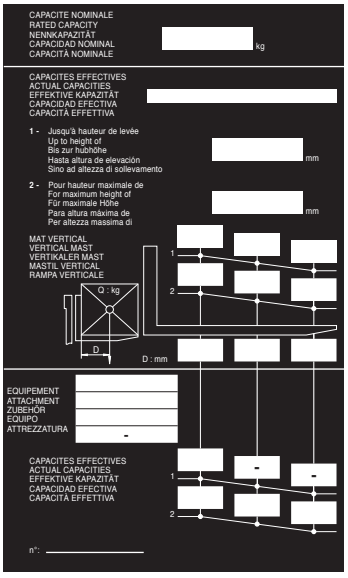
1 - Up to lift height of ➔

2 - For maximum height of ➔

VERTICAL MAST ➔

EQUIPMENT ➔

ACTUAL CAPACITIES ➔



647562 (04/04/2024)
M ... P ST3B S4 EU

TYRES

FRONT

		PRESSURE (bar) LOAD PER TYRE (kg)	M 26-2 M 26-2 H	M 26-4	M 30-2 M 30-2 H	M 30-4	M 40-2 M 40-2 H	M 40-4	M 50-2 M 50-2 H	M 50-4
CONTINENTAL	14,5R20 MPT80 18PR 143G/J TUBELESS	PRESSURE	3,5		3,5					
		Front unladen	1400		1200					
		Front laden	3500		3750					
MICHELIN	380/75 R20 XMCL 148A8 TUBELESS	PRESSURE	4	4	4	4				
		Front unladen	1400	1250	1200	1200				
		Front laden	3500	3350	3750	3750				
	18R22,5 XF TUBELESS	PRESSURE						5,5		5,5
		Front unladen						1300		1650
		Front laden						4500		5750
	18R19,5 XF TUBELESS	PRESSURE					6,5		6,5	
		Front unladen					1300		1650	
		Front laden					4550		5800	
ALIANCE	405/70-20 149B I323	PRESSURE	3,5	3,5	3,5	3,5				
		Front unladen	1400	1250	1200	1200				
		Front laden	3500	3350	3750	3750				
	18-19,5 A224 18PR TUBELESS	PRESSURE					6,5		6,5	
		Front unladen					1300		1650	
		Front laden					4550		5800	
MITAS	18-22,5 MPT-06 16PR 163A8 TUBELESS	PRESSURE						4,5		4,5
		Front unladen						1300		1650
		Front laden						4500		5750
BKT	15,5/80 AS504 16PR TL	PRESSURE	3,5	3,5	3,5	3,5				
		Front unladen	1400	1250	1200	1200				
		Front laden	3500	3350	3750	3750				

REAR

		PRESSURE (bar) LOAD PER TYRE (kg)	M 26-2 M 26-2 H	M 26-4	M 30-2 M 30-2 H	M 30-4	M 40-2 M 40-2 H	M 40-4	M 50-2 M 50-2 H	M 50-4
GOODYEAR	10R17,5 134M G291	PRESSURE	5,5		5,5					
		Rear unladen	1450		1800					
		Rear laden	650		700					
		PRESSURE					9,5		9,5	
		Rear unladen					2150		2500	
		Rear laden					950		850	
MICHELIN	340/80R18 XMCL 143A8 TUBELESS	PRESSURE						3,2		3,2
		Rear unladen						2200		2500
		Rear laden						1000		900
ALIANCE	10,5/80-18 10PR I317	PRESSURE		3,8		3,8				
		Rear unladen		1650		1850				
		Rear laden		800		750				
	10,5/80-18 10PR A317	PRESSURE	3,75		3,75					
		Rear unladen	1450		1800					
		Rear laden	650		700					

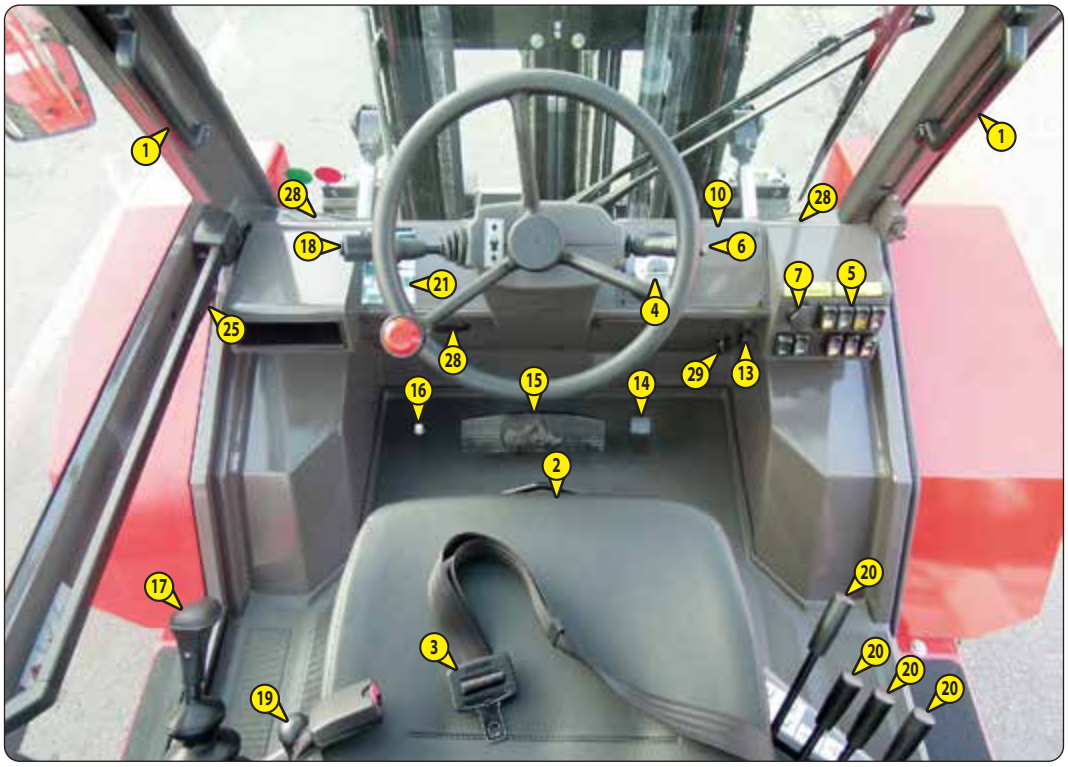
647562 (04/04/2024)
M ... P ST3B S4 EU

		PRESSURE (bar)	LOAD (kg)	GROUND CONTACT PRESSURE (kg/cm2)		GROUND CONTACT AREA (cm2)	
				HARD GROUND	SOFT GROUND	HARD GROUND	SOFT GROUND
CONTINENTAL	14,5R20 MPT80 18PR 143G/J TUBELESS	3,5	1200	1,89		635	
			1400	2,08		669	
			3500	3,37		1040	
			3750	3,44		1090	
MICHELIN	380/75 R20 XMCL 148A8 TUBELESS	4	1200				
			1250				
			1400				
			3350				
			3500				
			3750				
	18R22,5 XF TUBELESS	5,5	1300	1,66	0,77	787	1697
			1650	1,94	0,90	836	1803
			4500	3,37	1,56	1282	2766
			5750	3,68	1,71	1560	3366
	18R19,5 XF TUBELESS	6,5	1300	2,94	1,36	441	952
			1650	3,38	1,57	489	1054
			4550	4,05	1,88	1118	2413
			5800	4,21	1,95	1375	2966
	340/80R18 XMCL 143A8 TUBELESS	3,2	900				
			1000				
			2200				
			2500				
ALIANCE	405/70-20 149B I323	3,5	1200				
			1250				
			1400				
			3350				
			3500				
			3750				
	18-19,5 A224 18PR TUBELESS	6,5	1300	6,51		200	
			1650	6,51		254	
			4550	6,50		700	
			5800	6,50		892	
	10,5/80-18 10PR I317	3,8	750				
			800				
			1650				
			1850				
	10,5/80-18 10PR A317	3,75	650				
			700				
			1450				
			1800				
MITAS	18-22,5 MPT-06 16PR 163A8 TUBELESS	4,5	1300				
			1650				
			4500				
			5750				
BKT	15,5/80 AS504 16PR TL	3,5	1200				
			1250				
			1400				
			3350				
			3500				
			3750				
GOODYEAR	10R17,5 134M G291	5,5	650				
			700				
			1450				
			1800				
		9,5	850				
			950				
			2150				
			2500				

DESCRIPTION

1 - DRIVER'S CAB ACCESS
2 - DRIVER'S SEAT
3 - SEAT BELT
4 - CONTROL INSTRUMENTS AND INDICATOR LIGHTS PANEL
5 - SWITCHES
6 - LIGHTING, HORN AND INDICATOR SWITCH
7 - IGNITION SWITCH
8 - BRAKE OIL TANK
9 - WINDSCREEN WASHER TANK
10 - FUSES AND RELAYS IN THE CAB
11 - FUSES AND RELAYS UNDER THE ENGINE COVER
12 - ENGINE DIAGNOSTIC PLUG
13 - DIAGNOSTIC PLUG
14 - ACCELERATOR PEDAL
15 - SERVICE BRAKE PEDAL AND TRANSMISSION CUT-OFF
16 - DIFFERENTIAL LOCK PUSHBUTTON **(Depending on model)**
17 - GEAR Lever **(Depending on model)**
18 - FORWARD/NEUTRAL/REVERSE GEAR SELECTION
19 - PARKING BRAKE
20 - HYDRAULIC CONTROLS
21 - LOAD CHARTS
22 - LEVEL INDICATOR
23 - BATTERY CUT-OFF
24 - ROAD LIGHTING **(Not illustrated)**
25 - DOOR OPENING
26 - DOOR RELEASE BUTTONS
27 - DOCUMENT STORAGE NET
28 - HEATING VENTS
29 - HEATER CONTROL
30 - ROOF LIGHT

NOTE: All the terms such as: RIGHT, LEFT, FRONT, REAR are as seen by an observer occupying the driver's seat and looking straight ahead.


1
1
28
10
28
18
6
21
7
5
4
25
28
29
13
16
15
14
2
17
20
3
20
20
19
20

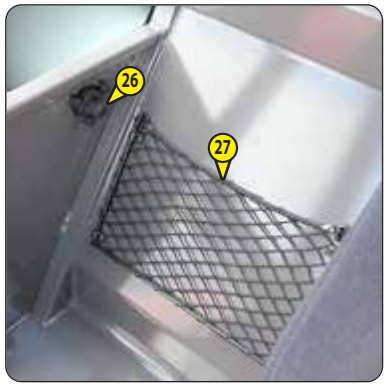

8


9


11
12


22

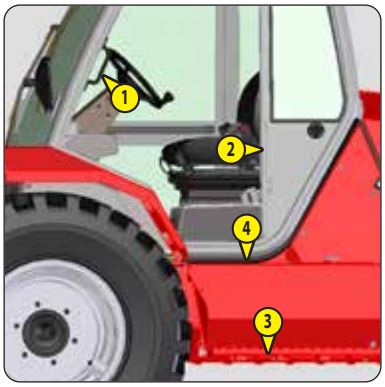

23


26
27


30

1 - DRIVER'S CAB ACCESS

- Getting into and out of the driver's cab.
- Use the three support points provided.
  - Handle 1.
  - Driver's cab pillar 2.
  - Steps 3 and 4.



2 - DRIVER'S SEAT

DRIVER'S SEAT (STANDARD)

DESIGNED FOR MAXIMUM COMFORT, THIS SEAT CAN BE ADJUSTED AS FOLLOWS.

LONGITUDINAL ADJUSTMENT

- Pull locking lever 1 towards the right.
- Slide the seat to the desired position.
- Release the lever and be sure it returns to the lock position.

SEAT SUSPENSION ADJUSTMENT

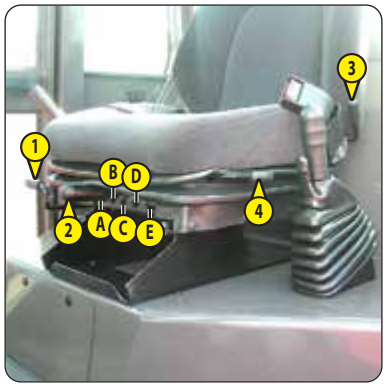
- Refer to graduation of the seat.
- Turn handle 2 according to the driver's weight.

BACK-REST ANGLE ADJUSTMENT

- Pull lever 3 upwards.
- Tilt the back-rest to the required position.
- Release the lever and be sure it returns to the lock position.

DRIVER'S SEAT (OPTION)

DESIGNED FOR MAXIMUM COMFORT, THIS SEAT CAN BE ADJUSTED AS FOLLOWS.



LONGITUDINAL ADJUSTMENT

- Pull lever 1 upwards.
- Slide the seat to the desired position.
- Release the lever and be sure it returns to the lock position.

SEAT SUSPENSION ADJUSTMENT

- Pull and lift up the locking lever 2 so as to place it into one of these five positions.
  - A - Light-weight driver (50 kg).
  - B - Intermediate
  - C - Medium-weight driver.
  - D - Intermediate
  - E - Heavy-weight driver (120 kg).

BACK-REST ANGLE ADJUSTMENT

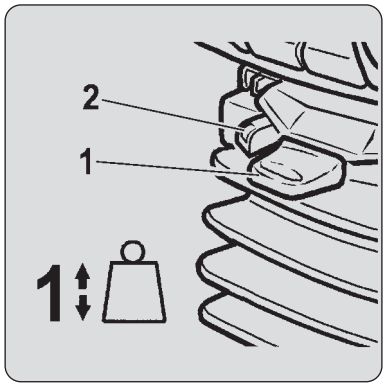
- Pull the locking lever 3 backwards.
- Tilt the back-rest into one of the three possible positions.
- Release the lever and be sure it returns to the lock position.

ANGLE ADJUSTMENT OF THE WHOLE SEAT

- Lift up the locking lever 4.
- Tilt the seat forwards or backwards.
- Release the lever and ensure it returns to the lock position.

DRIVER'S PNEUMATIC SEAT (OPTION)

DESIGNED FOR MAXIMUM COMFORT, THIS SEAT CAN BE ADJUSTED AS FOLLOWS.



WEIGHT ADJUSTMENT

It is advised that you adjust the seat according to your weight while sitting.

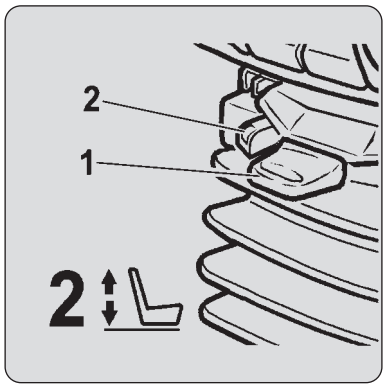
- Switch on lift truck ignition.
- Push or pull lever 1 until green appears in display 2 indicating correct adjustment according to your weight.

NOTE: To avoid any health problems, it is recommended that the weight adjustment is checked and adjusted before starting the lift truck.

SEAT HEIGHT ADJUSTMENT

⚠ IMPORTANT ⚠

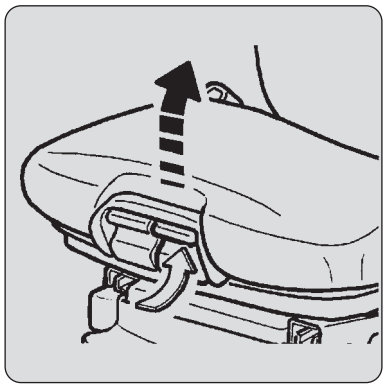
To avoid causing any damage, do not activate the compressor for over 1 minute.



When weight adjustment has been carried out, you can then modify seat height.

- Keep the ignition on in the lift truck.
- Push or pull lever 1 until green appears and adjust the height of the seat while checking that the green in display 2 remains visible.

SEAT TILT ADJUSTMENT



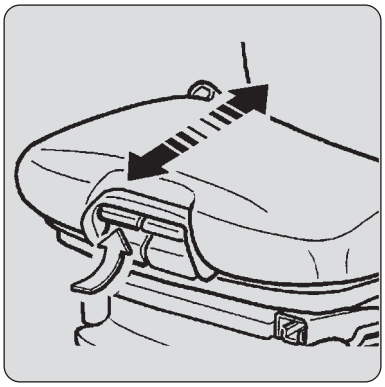
The back-rest angle of the seat may be adjusted to suit the individual.

- Press the left-hand button while pushing on the seat or relaxing pressure on the seat to find a comfortable position.

SEAT DEPTH ADJUSTMENT

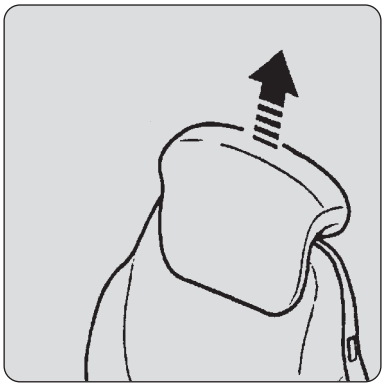
The depth of the seat may be adjusted to suit the individual.

- Press the right-hand button while raising or lowering the seat to find the desired position.



EXTENDING THE HEAD-REST

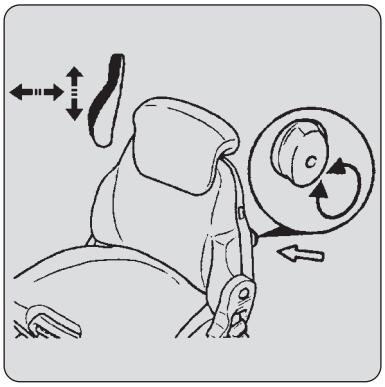
- The height of the back-rest can be adjusted by pulling it upwards (the notches will click) up to the stop.
- The head-rest can be removed by applying sufficient pressure to pull it off the stop.



LUMBAR ADJUSTMENT

This increases the comfort of the seat and the driver's freedom of movement.

- Turn the handle either left or right to adjust the height or depth of the lumbar support.

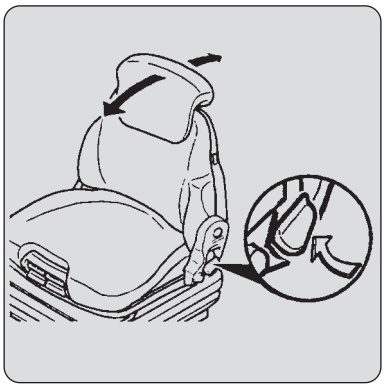


BACK-REST ANGLE ADJUSTMENT

⚠ IMPORTANT ⚠

If you do not support the back-rest when making adjustments, it swings completely forwards.

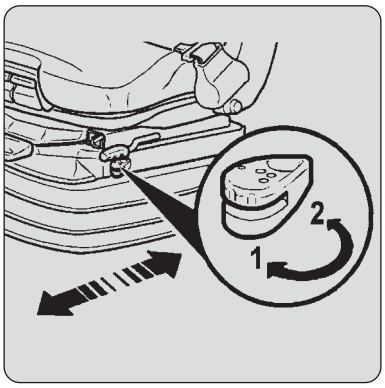
- Support the back-rest, pull the lever and position the back-rest to find the desired position.



HORIZONTAL SHOCK ABSORBER

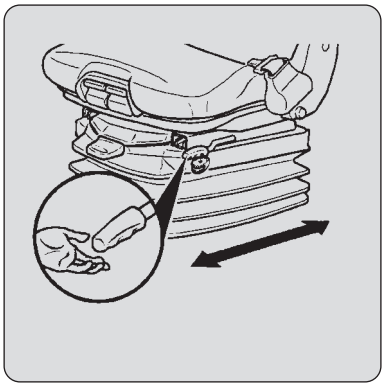
In certain conditions (e.g. driving with a trailer) it is advised that a horizontal shock absorber be used. The driver's seat is thus better able to absorb jerks in the direction of travel.

- Position 1: Horizontal shock absorber fitted.
- Position 2: Horizontal shock absorber removed.



LONGITUDINAL ADJUSTMENT

- Adjust the locking lever until you reach the position required. This then locks and the seat will not shift into another position.



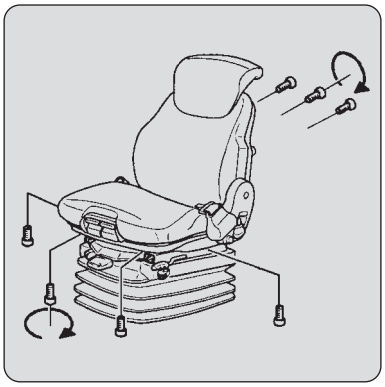
MAINTENANCE

⚠ IMPORTANT ⚠

A moving backrest increases the risk of an accident!

Dirt may adversely affect the correct functioning of the seat. For this reason, make sure your seat is always clean.

- To clean or change the cushions, simply remove them from the seat frame.
- Avoid wetting the cushion fabric when cleaning. Check the resistance of the fabric on a small hidden area before using any fabric or plastic cleaner.



3 - SEAT BELT

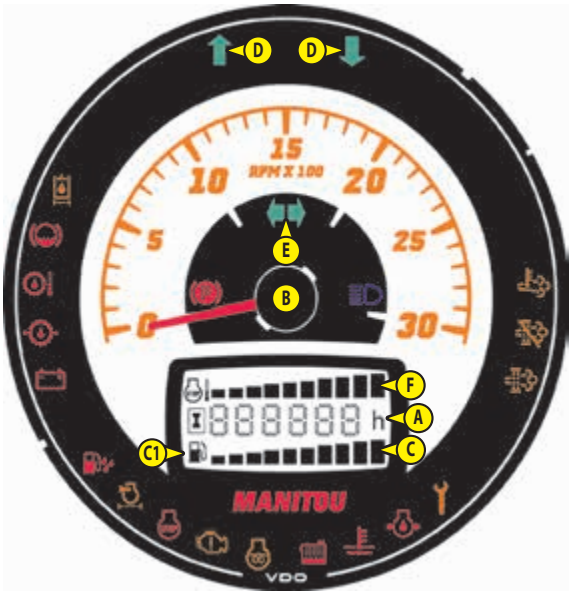
⚠ IMPORTANT ⚠

In no event should the lift truck be used if the seat belt is defective (fixing, locking, cuts, tears, etc.).
Repair or replace the seat belt immediately.

- Sit correctly on the seat.
- Check that seat belt is not twisted.
- Place the seat belt at hip level.
- Attach the seat belt and check that it locks.
- Adjust the seat belt to your body shape without compressing your pelvis and without excessive slack.

4 - CONTROL INSTRUMENTS AND INDICATOR LIGHTS PANEL

When the lift truck ignition is switched on, all the red indicator lamps and the buzzer on the panel must come on to indicate that they are working correctly. If one of the red indicator lamps or the buzzer fails to operate, carry out the necessary repairs.



A - HOUR METER

B - REV COUNTER

C - FUEL LEVEL

The yellow warning light C1 being on indicates that you are on the reserve tank and that your running time is limited.

D - FORWARD/REVERSE INDICATOR LIGHT

FORWARD/NEUTRAL/REVERSE GEAR SELECTION

E - GREEN STEERING LIGHTS

A continuous beeping sound on and off at the same time as the steering lights when using indicator lights or hazard warning lights.

F - ENGINE WATER TEMPERATURE

	... - 60°	Moderate use	Wait till the temperature rises for optimum use
	60° - 110°	Normal use	
+ +	110° - 120°	Stop the lift truck	Monitor the temperature
+ +	120° - ...	Stop the engine immediately	Find the cause of the overheating

PARKING BRAKE INDICATOR LAMP

This indicator lamp comes on when the parking brake is applied.

BLUE MAIN BEAM INDICATOR LAMP

HYDRAULIC RETURN OIL FILTER CLOGGING LAMP

The indicator lamp comes on when the hydraulic return oil filter cartridge is clogged. When this lamp remains continuously lit the cartridge needs changing. Stop the lift truck and carry out the necessary repairs (MAINTENANCE).

NOTE: This lamp may light when starting the fork lift truck, it should go off when the hydraulic oil reaches its operating temperature.

BRAKE FLUID LEVEL OR POWER-ASSISTED BRAKING FAULT INDICATOR LAMP

If the lamp comes on when the lift truck is running, stop the engine immediately and check the brake fluid level. In the event of an abnormal drop in the level, consult your dealer.

TRANSMISSION OIL TEMPERATURE INDICATOR LAMP

The indicator lamp comes on while the lift truck is running to indicate that the transmission oil temperature is too high. Stop the lift truck and determine the cause (ex. Oil level is too low, internal leak etc.).

GEAR BOX OIL PRESSURE LIGHT

M 26/30/40/50-2 M 26/30/40/50-4

This indicator lamp comes on when there is an abnormal drop in gearbox pressure. Stop the forklift truck and look for the cause (e.g., Low oil level, internal or external leak, etc.).

BATTERY CHARGE INDICATOR LAMP

If this lamp comes on when the lift truck is running, switch off the engine immediately and check the electric circuit and the alternator belt.

WATER IN FUEL PRE-FILTER LAMP

The indicator lamp will come on when there is water in the fuel pre-filter. Stop the lift truck and carry out the necessary repairs (◁ MAINTENANCE).

AIR FILTER CLOGGING INDICATOR LAMP

The indicator lamp comes on when the air filter cartridge is clogged up. When this light remains continuously lit the cartridge needs changing. Stop the lift truck and carry out the necessary repairs (◁ MAINTENANCE).

ENGINE SHUT-DOWN INDICATOR LAMP

If the indicator lamp comes on when the lift truck is running, stop the engine and look for the cause (possible leak, request for regeneration of the exhaust particle filter, etc.).

ENGINE FAULT INDICATOR LAMP

If the indicator lamp comes on when the lift truck is running, stop the engine and look for the cause (possible leak, request for regeneration of the exhaust particle filter, etc.).

NOTE: This lamp comes on the moment the ignition key is in position I and remains lit until the engine starts.

ENGINE AUTOMATIC PREHEAT INDICATOR LAMP

This lamp comes on and should go out as soon as preheating is finished. If it comes on while the lift truck is in operation, immediately stop the engine and determine cause.

COOLANT LEVEL INDICATOR LAMP

If the indicator lamp comes on when the lift truck is running, this means that the coolant level is too low. Stop the engine and check the coolant level.

ENGINE COOLANT TEMPERATURE INDICATOR LAMP

The lamp comes on when the engine coolant temperature is too high. Stop the lift truck and carry out the necessary repairs (◁ MAINTENANCE).

ENGINE OIL PRESSURE INDICATOR LAMP

If the indicator lamp comes on when the forklift truck is operating, stop the engine immediately and look for the cause (oil level, engine leak, etc.).

NOTE: After starting the engine, the indicator lamp remains lit for a few seconds then goes out when the correct engine oil pressure is reached. The full engine power is then available.

I.C. ENGINE OIL CHANGE LAMP

The indicator lamp comes on at 450 hours to warn the operator to change the engine oil at 500 hours. If the indicator lamp comes on before the 500 hour maintenance, replace the engine oil. This is due to a large number of automatic exhaust particle filter regenerations and "stationary lift truck" exhaust particle filter regenerations.

EXHAUST PARTICLE FILTER ACTIVATED LAMP

The lamp comes on while the lift truck is running to indicate an automatic regeneration of the exhaust particle filter.

EXHAUST PARTICLE FILTER DEACTIVATED LAMP

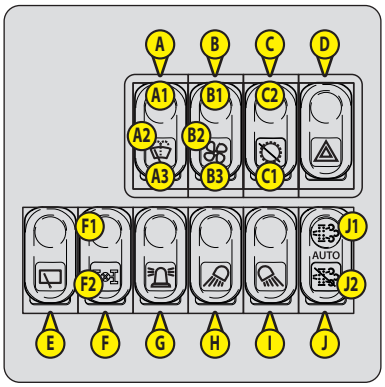
The indicator lamp comes on when the lift truck is running to indicate that automatic exhaust particle filter regeneration is disabled.

HIGH EXHAUST GAS TEMPERATURE INDICATOR LAMP

The light comes on while the lift truck is running to indicate a high exhaust gas temperature.

5 - SWITCHES

NOTE: The location of the switches may vary depending on the options.



M 26/30/40/50-2 M 26/30/40/50-4

A - FRONT WINDSCREEN WIPER AND WINDSCREEN WASHER

- A1 - Off.
- A2 - On.
- A3 - Windscreen washer (push).

B - HEATING FAN

- B1 - Off.
- B2 - Speed 1.
- B3 - Speed 2.

C - TRANSMISSION CUT-OFF

- C1 - Gear lever + brake pedal (indicator lamp on).
- C2 - Gear lever (indicator lamp off).

D - HAZARD WARNING LIGHTS

E - REAR WINDSCREEN WIPER + ROOF WINDSCREEN WIPER OPTION

F - OPTION M 26/30/40/50-2

F - PASSAGE 4RM <-> 2RM M 26/30/40/50-4

The passage 4RM <-> 2RM takes place exclusively when stopped and not suddenly.

- F1 - 2RM, 2 Front driving wheels (indicator lamp off).
- F2 - 4RM, 4 Driving wheels (indicator lamp on).

G - ROTATING BEACON LIGHT OPTION

H - FRONT WORKLIGHT OPTION

I - REAR WORKLIGHT OPTION

J - EXHAUST PARTICLE FILTER REGENERATION

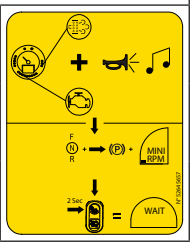
NOTE: The exhaust particle filter automatic regeneration is enabled each time the lift truck is started.

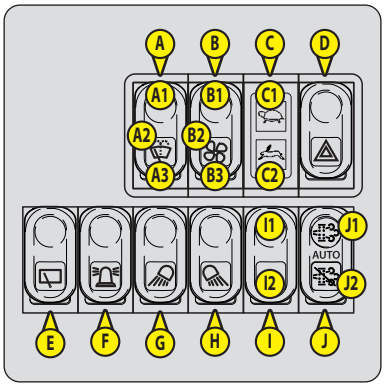
- J1 - "LIFT TRUCK STATIONARY" REGENERATION (MAINTENANCE)
- J2 - DEACTIVATION OF THE AUTOMATIC REGENERATION

⚠ IMPORTANT ⚠

Disabling the automatic exhaust regeneration remains a function that is only to be used in case of necessity (confined or unventilated space, etc.).

- To deactivate the automatic regeneration, hold down the bottom of the switch. The indicator lamp lights.
- To reactivate the automatic regeneration hold down the bottom of the switch again. The indicator lamp goes out and the automatic regeneration is active.

<table>
<tr><th colspan="3">MANAGEMENT OF EXHAUST PARTICLE FILTER REGENERATION</th></tr>
<tr><th>SIGNALS</th><th colspan="2">ACTIONS</th></tr>
<tr><td>+ 2 short beeps
Moderate soot level</td><td colspan="2">The indicator lamp lights and the engine idling speed is higher, indicating that automatic regeneration is in progress.
NOTE: Preferably wait until automatic regeneration is completed before switching off the ignition.</td></tr>
<tr><td>+ + 1 short beep
Moderate soot level, automatic regeneration disabled.</td><td colspan="2">Enable automatic regeneration at the earliest possible time.</td></tr>
<tr><td>+ + 1 long beep
High soot level</td><td rowspan="2">Reduced lift truck efficiency, only "stationary lift truck" regeneration can be performed (MAINTENANCE).</td><td rowspan="2">  </td></tr>
<tr><td>+ + + 1 long beep.
High soot level, automatic regeneration disabled.</td></tr>
<tr><td>+ + STOP + 1 short beep
Very high soot level, particle filter clogged.</td><td colspan="2">Reduced lift truck efficiency, shut down the lift truck and contact your dealer.</td></tr>
</table>



A - FRONT WINDSCREEN WIPER AND WINDSCREEN WASHER

- A1 - Off.
- A2 - On.
- A3 - Windscreen washer (push).

B - HEATING FAN

- B1 - Off.
- B2 - Speed 1.
- B3 - Speed 2.

C - SPEED SELECTOR INDICATOR LAMPS

- C1 - Low speed: Use for load handling.
- C2 - High speed: For road use.

D - HAZARD WARNING LIGHTS

E - REAR WINDSCREEN WIPER + ROOF WINDSCREEN WIPER OPTION

F - ROTATING BEACON LIGHT OPTION

G - FRONT WORKLIGHT OPTION

H - REAR WORKLIGHT OPTION

I - GEAR SELECTOR

NOTE: When starting the lift truck, low speed is automatically selected.

The speed should only be selected when stopped, in neutral gear and with the brake pedal pressed down.

- I1 - Low speed: (C1 indicator lamp on): Use for load handling.
- I2 - High speed (C2 indicator lamp on): For road use.

J - EXHAUST PARTICLE FILTER REGENERATION

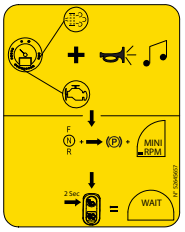
NOTE: The exhaust particle filter automatic regeneration is enabled each time the lift truck is started.

- J1 - "LIFT TRUCK STATIONARY" REGENERATION (MAINTENANCE)
- J2 - DEACTIVATION OF THE AUTOMATIC REGENERATION

⚠ IMPORTANT ⚠

Disabling the automatic exhaust regeneration remains a function that is only to be used in case of necessity (confined or unventilated space, etc.).

- To deactivate the automatic regeneration, hold down the bottom of the switch. The indicator lamp lights.
- To reactivate the automatic regeneration hold down the bottom of the switch again. The indicator lamp goes out and the automatic regeneration is active.

MANAGEMENT OF EXHAUST PARTICLE FILTER REGENERATION		
SIGNALS	ACTIONS	
+ 2 short beeps Moderate soot level	The indicator lamp lights and the engine idling speed is higher, indicating that automatic regeneration is in progress. NOTE: Preferably wait until automatic regeneration is completed before switching off the ignition.	
+ + 1 short beep Moderate soot level, automatic regeneration disabled.	Enable automatic regeneration at the earliest possible time.	
+ + 1 long beep High soot level	Reduced lift truck efficiency, only "stationary lift truck" regeneration can be performed (MAINTENANCE).	
+ + + 1 long beep. High soot level, automatic regeneration disabled.		
+ + + 1 short beep Very high soot level, particle filter clogged.	***Reduced lift truck efficiency, shut down the lift truck and contact your dealer.***	

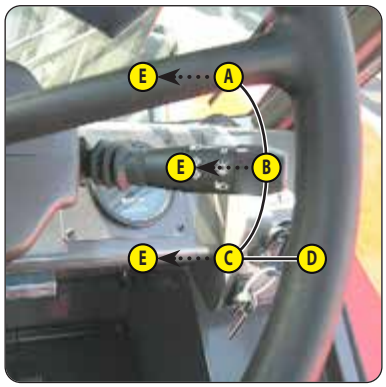
647562 (04/04/2024)
M ... P ST3B S4 EU

6 - LIGHTING, HORN AND INDICATOR SWITCH

ROAD LIGHTS

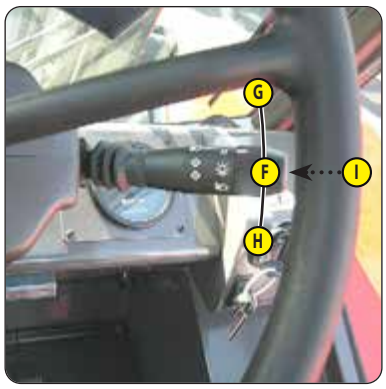
The road lights can be used without the ignition key.

- A - Off.
- B - Front and rear side lights.
- C - Dipped beam headlights.
- D - Main beam headlights.
- E - Headlight flashing (push).



INDICATOR LIGHTS AND SOUND ALARM

- F - Off.
- G - Right indicator lights.
- H - Left indicator lights.
- I - Horn (push).



7 - IGNITION SWITCH

This switch has 4 positions:

- P - Not used
- O - Ignition switched off and engine stopped.
- I - Ignition + preheat.
- II - Starting and return to position I as soon as the key is released.

8 - BRAKE OIL TANK

MAINTENANCE

9 - WINDSCREEN WASHER TANK

MAINTENANCE

10 - FUSES AND RELAYS IN THE CAB

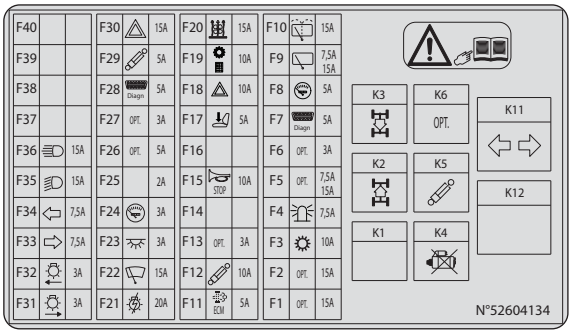
- Remove the access panel 1 to access the fuses and relays.
- Replace a used fuse with a new fuse of the same quality and capacity.
- Never reuse a repaired fuse.

RELAYS

- K1 - "Driver presence safety" relay.
- K2 - Forward gear relay.
- K3 - Reverse gear relay.
- K4 - Starting safety neutral
- K5 - "Driver presence safety" relay.
- K6 - OPTION Air conditioning relay.
- K11 - Flashing light unit.
- K12 - OPTION

FUSES

- F1 - OPTION Front worklights (15A).
- F2 - OPTION Rear worklights (15A)
- F3 - Rear axle clutch (10A) M 26/30-4+H M 40/50-4+H
- F4 - OPTION Rotating beacon light (7,5A).
- F5 - OPTION Car radio (7,5A)
  OPTION Pneumatic seat (15A).
  OPTION Car radio + OPTION Pneumatic seat (15A)
- F6 - OPTION Engine immobiliser (3A).
- F7 - Diagnostics plug (5A).
- F8 - Control instruments + buzzer panel (5A).
- F9 - Rear windscreen wiper + windscreen washer (7,5A)
  OPTION Roof windscreen wiper (15A).
- F10 - Front windscreen wiper + windscreen washer (15A).
- F11 - Engine ECU + particle filter regeneration switch (5A).
- F12 - "Driver presence safety" power supply relay (10A).
  OPTION air conditioning relay (10A).
- F13 - OPTION Engine oil vapour heater option (3A).
- F14 - Free.
- F15 - Horn + stop switch (10A).
- F16 - Free.
- F17 - Seat switch + hand brake + transmission cut-off switch indicator lamp (5A).
- F18 - Flashing light unit (10A).
- F19 - Forward/neutral/reverse gear selector (10A).
  OPTION Reversing sound alarm (10A).
- F20 - Fan/heating (15A).
- F21 - Lighting, horn and indicator switch (20A).
- F22 - Automatic return for windscreen washer motors (15A).
- F23 - Roof light (3A).
- F24 - Control panel module (3A).
- F25 - Free.
- F26 - OPTION Car radio (5A).
- F27 - OPTION Engine immobiliser (3A).
- F28 - Diagnostics plug (5A).
- F29 - "Driver presence safety module" (15A).
- F30 - Hazard warning light switch (15A).
- F31 - Right sidelight + control panel (3A).
- F32 - Left sidelights (3A).
- F33 - Right indicator light + OPTION air conditioning panel (7,5A).
- F34 - Left-hand indicator light (7,5A).
- F35 - Dipped beam headlights (15A).
- F36 - Main beam headlights + indicator lamp (15A).
- F37 - Free.
- F38 - Free.
- F39 - Free.
- F40 - Free.

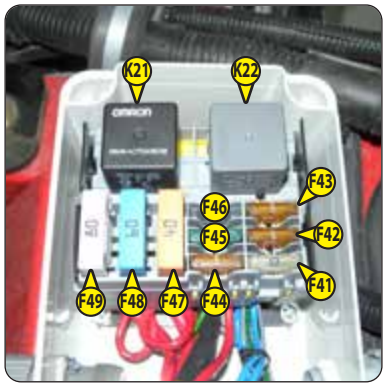


11 - FUSES AND RELAYS UNDER THE ENGINE COVER

- Open the engine cover, remove the cover 1 to access fuses and relays.
- Replace a used fuse with a new fuse of the same quality and capacity.
- Never reuse a repaired fuse.

FUSES

- F41 - Engine ECU power supply (25A).
- F42 - Engine ECU power supply (5A).
- F43 - Lambda probe + diagnostic plug (5A).
- F44 - Engine computer ECU control (5A).
- F45 - Starter control relay K22 (30A).
- F46 - Free.
- F47 - Engine ECU power supply (40A).
- F48 - Engine preheat module (60A).
- F49 - Ignition switch (80A).



RELAYS

- K21 - Engine ECU power supply relay.
- K22 - Starter control relay

12 - ENGINE DIAGNOSTIC PLUG

13 - DIAGNOSTIC PLUG

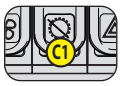
14 - ACCELERATOR PEDAL

15 - SERVICE BRAKE PEDAL AND TRANSMISSION CUT-OFF

The pedal acts on the front and rear wheels by a hydraulic system, allowing the lift truck to be slowed down and stopped.

This allows the transmission to be gradually cut off during the free travel range to enable a gradual approach (delicate handling) with full engine power.

M 26-2 / M 30-2 / M 40-2 / M 50-2
M 26-4 / M 30-4 / M 40-4 / M 50-4

To activate the transmission cut-off to the brake pedal, press switch C in position 

.

16 - DIFFERENTIAL LOCK PUSHBUTTON

Standard	M 26-2 / M 30-2 / M 40-2 / M 50-2
	M 26-2 H / M 30-2 H / M 40-2 H / M 50-2 H
Option	M 26-4 / M 30-4

⚠ IMPORTANT ⚠

When the differential lock is engaged, always drive in a straight line and at low speed.

The differential lock allows the driving wheels to turn at the same speed regardless of the terrain.

- To enable the lock, press the pushbutton with your foot.
- To disable the lock, remove your foot.

17 - GEAR LEVER

M 26/30/40/50-2
M 26/30/40/50-4

In order to change gear, it is necessary to cut ff the transmission by pressing button 1 on the lever.

- 1st gear: To the left, backwards.
- 2nd gear: To the left, forwards.
- 3rd gear: To the right, backwards.
- 4th gear: To the right, forwards.

CONDITION FOR USING THE TRANSMISSION GEAR RATIOS

NOTE: On forklift trucks with a torque converter, it is not necessary to start routinely in 1st gear and progress up through the gears.

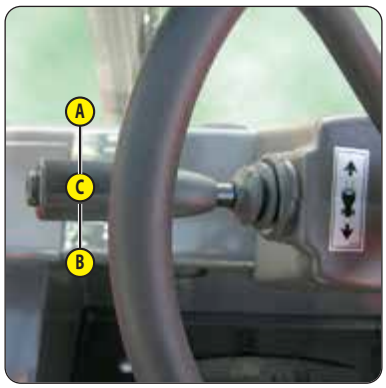
⚠ IMPORTANT ⚠

If the gearbox oil temperature indicator lamp comes on, it is essential to stop and change your working conditions.
The gear box ratio selection should be made carefully depending on the work to be performed.
An incorrect choice of ratio may cause too fast an increase in the temperature of the gearbox oil, which could lead to serious deterioration.
This poor choice may also result in the forklift truck's performance deteriorating in forward gear. When the forward force increases, the forward speed in the r ratio (for example, in 3rd gear) may be lower than the forward speed that could be obtained with the r-1 ratio (in 2nd instead of 3rd).

Generally speaking, and depending on the work to be done, we recommend using the following ratios:

- On the road: 3rd gear then 4th if road conditions allow.
- On the road in mountainous areas: 3rd gear then 4th if road conditions allow.
- On the road with a trailer: 3rd gear then 4th if road conditions allow.
- When handling: 3rd gear.
- When handling in confined spaces: 2nd gear.
- When loading (picking up with bucket, manure fork, etc.): 2nd gear.
- Earth moving: 1st gear.

18 - FORWARD/NEUTRAL/REVERSE GEAR SELECTION



Inversion of the direction of travel for the lift truck should take place at low speed and without accelerating. Identification in neutral makes it possible to prevent an accidental move from forward or reverse direction.

- A - FORWARD: Lift slightly and push the lever forwards.
- B - REVERSE: Lift slightly and pull the lever backwards.
- C - NEUTRAL: To start the lift truck, the lever must be in neutral.

NOTE: As an OPTION, reversing lights and a sound reversing alarm indicate that the lift truck is moving in reverse.

SAFETY FOR MOVING THE LIFT TRUCK

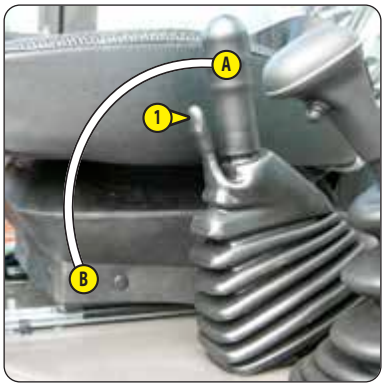
Authorisation for movement of the lift truck is controlled by an electronic module.

- The operator must observe the following sequence to move the truck forwards or backwards:
  - 1 - Sit correctly on the seat.
  - 2 - Lock the seat belt.
  - 3 - Release the parking brake.
  - 4 - Engage forward or reverse gear.
- To stop the forklift truck, the following sequence must be observed:
  - 1 - Put the forward/reverse selector in neutral.
  - 2 - Apply the parking brake.
  - 3 - Remove the seat belt.
  - 4 - Get out of the lift truck.

NOTE: If the operator leaves the driver's cab with forward or reverse gear in operation, a sound alarm will sound:

- Continuously, the operator may sit down again and continue moving forwards or backwards.
- Discontinuously, the operator must sit down again, put the selector back in neutral and select forward or reverse if he wishes to continue moving.

19 - PARKING BRAKE



To prevent accidental loosening or release, the lever is fitted with safety locking 1.

- A - To apply the parking brake, pull the lever backwards.
- B - To release the brake, press on the safety locking 1 and push the lever forwards.

20 - HYDRAULIC CONTROLS

⚠ IMPORTANT ⚠

Do not change the hydraulic system pressure. In the event of malfunction, contact your dealer. ANY ALTERATION WILL RENDER THE WARRANTY NULL AND VOID.

Use the hydraulic controls carefully and without jerking, to avoid accidents caused by shaking of the lift truck.

Using the hydraulic controls is only possible if the driver is present and correctly sat on his seat.

A - LIFTING THE LOAD

- Lever backwards to lift.
- Lever forwards to lower.

B - TILTING THE MAST

- Lever backwards for tilting backwards.
- Lever forwards for tilting forwards.

C - ATTACHMENT

- Lever forwards or backwards.

21 - LOAD CHARTS

22 - LEVEL INDICATOR

For your safety, and before handling any load, ensure that the lift truck is level.

23 - BATTERY CUT-OFF

Enables the battery to be isolated quickly if there is an incident or for maintenance on the lift truck.

⚠ IMPORTANT ⚠

To activate battery cut-off wait for 30 seconds after switching off the ignition

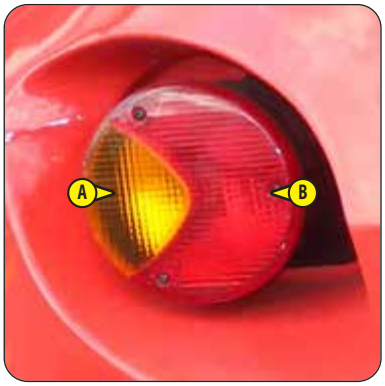
24 - ROAD LIGHTS

FRONT HEADLIGHTS

- A - Front left-hand indicator light.
- B - Front left-hand sidelight.
- C - Left front dipped headlight.
  Left front main beam headlight.
- D - Right front sidelight.
- E - Right front dipped headlight.
  Right front main beam headlight.
- F - Right-hand indicator light

REAR LIGHTS

- A - Left-hand indicator light
- B - Left brake light.
  Left headlight.
- C - Right brake light.
  Right headlight.
- D - Right-hand indicator light



25 - DOOR OPENING

26 - DOOR RELEASE BUTTONS

27 - DOCUMENT STORAGE NET

- Make sure that the operator's manual is in the right place, i.e. in the document holder net.

NOTE: An OPTIONAL waterproof document-holder is available.

28 - HEATING VENTS

29 - HEATER CONTROL

Allows the temperature inside the cab to be adjusted.

- A - Cold air.
- B - Hot air.

The intermediate positions allow the temperature to be adjusted.

30 - ROOF LIGHT

SLINGING AND LASHING PIN

⚠ IMPORTANT ⚠

This lift truck is not intended for use with a trailer.

This device is used only for slinging and lashing the lift truck (◁ OCCASIONAL OPERATION).

IF NECESSARY, CONSULT YOUR DEALER.

647562 (04/04/2024)
M ... P ST3B S4 EU

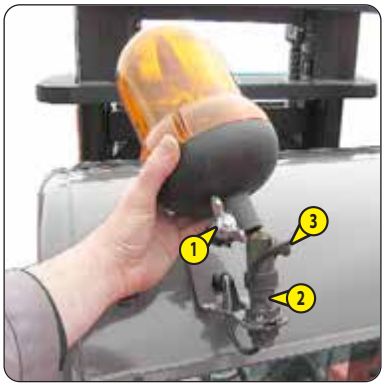
DESCRIPTION AND USE OF THE OPTIONS

1 - ROTATING BEACON LIGHT
2 - AIR CONDITIONING CONTROL
3 - REVERSING BUZZER ALARM
4 - MODCLE ANTI-THEFT SYSTEM
5 - ADAPTATION OF DISTRIBUTOR'S 4TH ELEMENT
6 - STEERING WHEEL TILTING KNOB
7 - EXTERNAL EMERGENCY STOP
8 - WING MIRRORS
9 - INSIDE REAR-VIEW MIRROR
10 - SUN VISOR Windscreen/Side Window

1 - ROTATING BEACON LIGHT

The rotating beacon light can be removed, for example to reduce the bulkiness of the lift truck or to avoid it being stolen.

- Undo nut 1 to remove the rotating beacon light.
- Protect mounting 2 with cap 3.

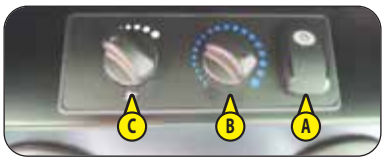


2 - AIR CONDITIONING CONTROL

⚠ IMPORTANT ⚠

Once a week in winter operate the air conditioning on a one-off basis to guarantee it is operating correctly.
In cold weather, start and warm up the engine before starting the air conditioning to avoid damaging the air conditioning circuit.
If the air conditioning seems to operate irregularly carry out a service (◁ MAINTENANCE) or consult your dealer.
Never try to repair possible faults in the circuit, consult your dealer.

- A - On/Off for the air conditioning with indicator lamp.
- B - Temperature setting.
- C - Ventilation speed adjustment.



CONDITIONS OF USE:

- The air conditioning only operates:
  - If the engine is running.
  - If the ventilation is operating.
- The doors and windows must be closed.
- The air intakes must not be obstructed (frost, snow, leaves, etc.).
- As a minimum, one cab heating vent 1 must be open to avoid the risk of the air conditioning circuit freezing.

NOTE: Possible water loss under the lift truck are due to the dehumidifying effect of the unit. These losses may vary depending on the exterior temperature and humidity.

3 - REVERSING BUZZER ALARM

4 - MODCLE ANTI-THEFT SYSTEM

- Place key 1 on the receiving unit 2 before starting the lift truck.

5 - ADAPTATION OF DISTRIBUTOR'S 4TH ELEMENT

ADDITIONAL ATTACHMENT

- Lever A forwards or backwards.

6 - STEERING WHEEL TILTING KNOB

This handle enables the angle of the steering wheel to be adjusted.

- Turn the handle 1 towards A to loosen and adjust steering wheel.
- Turn the handle 1 towards B to lock steering wheel in the required position.

7 - EXTERNAL EMERGENCY STOP

8 - WING MIRRORS

9 - INSIDE REAR-VIEW MIRROR

10 - SUN VISOR

3 - MAINTENANCE

3 - MAINTENANCE

647562 (04/04/2024)
M ... P ST3B S4 EU

ORIGINAL SPARE PARTS AND EQUIPMENT MANITOU

OUR LIFT TRUCKS MUST BE SERVICED USING ORIGINAL PARTS MANITOU.

BY ALLOWING THE USE OF NON-ORIGINAL PARTSMANITOU, YOU RISK:

⚠ IMPORTANT ⚠

THE USE OF COUNTERFEIT PARTS OR COMPONENTS NOT APPROVED BY THE MANUFACTURER, MEANS YOU LOSE THE BENEFIT OF THE CONTRACTUAL GUARANTEE.

- Legally - to be held responsible in the event of an accident.
- Technically - to cause operating malfunctions or shorten the life of the lift truck.

BY USING ORIGINAL MANITOU PARTS FOR MAINTENANCE OPERATIONS, YOU BENEFIT FROM OUR EXPERTISE

Through its network, MANITOU provides the user with,

- Know-how and competence.
- The guarantee of high-quality work.
- Original replacement parts.
- Help with preventive maintenance.
- Efficient help with diagnosis.
- Improvements due to experience feedback.
- Operator training.
- Only the MANITOU network has detailed knowledge of the design of the lift truck and therefore has the best technical ability to provide maintenance.

⚠ IMPORTANT ⚠

ORIGINAL SPARE PARTS ARE DISTRIBUTED EXCLUSIVELY BY MANITOU AND ITS DEALER NETWORK.

The dealer network list is available on the MANITOU www.manitou.com website

FORKLIFT TRUCK MAINTENANCE

DAILY AND WEEKLY MAINTENANCE

⚠ IMPORTANT ⚠

THE OPERATOR IS AUTHORISED TO CARRY OUT THIS MAINTENANCE.

These maintenance operations enable the operator to maintain the lift truck in a clean and safe condition.

MANDATORY FIRST 500 HOURS OR 6 MONTHS SERVICE

⚠ IMPORTANT ⚠

THIS SERVICE MUST BE CARRIED OUT AFTER THE FIRST 500 HOURS OF SERVICE OR WITHIN THE 6 MONTHS FOLLOWING PUTTING THE MACHINE INTO SERVICE (WHICHEVER OCCURS FIRST).

PERIODIC SERVICE

⚠ IMPORTANT ⚠

THE PERIODIC MAINTENANCE MUST BE CARRIED OUT BY A PROFESSIONAL APPROVED BY THE MANITOU NETWORK

MAINTENANCE SCHEDULE

This schedule enables the operator to keep the periodic service of the lift truck up-to-date by notifying the total number of hours of operation and the date of the service performed by the professional approved by the MANITOU network.

OCCASIONAL MAINTENANCE AND OPERATION

These maintenance tasks and operations are to be performed as required for the safety and upkeep of the lift truck.

DAILY AND WEEKLY MAINTENANCE

10H - DAILY SERVICE OR EVERY 10 HOURS OF SERVICE

50H - WEEKLY SERVICE OR EVERY 50 HOURS OF SERVICE

647562 (04/04/2024)
M ... P ST3B S4 EU

MANDATORY FIRST 500 HOURS OR 6 MONTHS SERVICE

FIRST 500 HOURS BEFORE THE FIRST 6 MONTHS

- If the lift truck has reached the first 500 hours of service before the first 6 months have expired, perform both the mandatory service and periodic 500 H service (◅ ➲ ❶ 500H - PERIODIC SERVICE - EVERY 500 HOURS OF SERVICE OR 1 YEAR).

FIRST 6 MONTHS BEFORE THE FIRST 500 HOURS

- If the lift truck has not completed 500 hours of service in the first 6 months, only carry out the mandatory service.

➲ MANDATORY SERVICE

- CHECK		Fuel level	3-13
- CLEAN		Cyclonic pre-filter (option)	3-13
- CLEAN		Driver's cab	3-14
- CHECK		Wheel reducer seals	3-16
- CHECK		Axle differential seal	3-16
- CHECK		Tyre pressures	3-17
- CHECK		Wheel nut tightening	3-17
- CHECK		Brake fluid level	3-17
- CHECK		Hydraulic oil level	3-17
- CHECK		Windscreen washer level	3-18
- CHECK		Mast uprights*	3-18
- CHECK - ADJUST		Tension and alignment of the mast lifting chains	3-18
- CHECK		Compressor belt tension (Air conditioning option)	3-19
- CLEAN		Radiator harness	3-19
- CLEAN		Dry air filter cartridge	3-19
- CLEAN		Condenser harness (air conditioning option)	3-20
- CLEAN		Cab ventilation filter (air conditioning option)	3-20
- LUBRICATE		General lubrication	3-20
- GREASE		Mast lifting chains	3-25
- REPLACE	M ..-2 / M ..-4	Gear box oil filter	3-28
- REPLACE	M ..-2 / M ..-4	Front axle differential oil (with oil cooler)	3-28
- REPLACE		Hydraulic return oil filter cartridge	3-29
- REPLACE		Cab fan filter	3-30
- REPLACE		Cab ventilation filter (air conditioning option)	3-30
- CHECK		Fork wear *	3-30
- CHECK		Safety belt	3-32
- REPLACE		Front axle differential oil	3-35
- REPLACE	M ..-4	Rear axle differential oil	3-35
- CHECK		Engine silent blocks *	3-36
- CHECK		Engine speeds *	3-36
- CHECK		Engine valve clearances *	3-36
- CHECK		Condition of wheels and tyres *	3-36
- CHECK		Condition of boom assembly *	3-36
- CHECK		Condition of hoses and flexible pipes *	3-36
- CHECK		Condition of cylinders (leakage, rods) *	3-36
- CHECK		Condition of wiring harnesses and cables *	3-36
- CHECK		Lights and signals *	3-36
- CHECK		Warning indicators *	3-36
- CHECK		Condition of the rear-view mirrors *	3-36
- CHECK		Cabin structure *	3-36
- CHECK		Frame structure *	3-36
- CHECK		Attachment carriage *	3-36
- CHECK		Condition of attachments *	3-36
- CLEAN		Hydraulic pump tubular filter *	3-36

**** Consult your dealer.***

647562 (04/04/2024)
M ... P ST3B S4 EU

MAINTENANCE SCHEDULE

	OR					
WHEN DUE ➲	FIRST 6 MONTHS	FIRST 500 HOURS	500 H or 1 YEAR	1000 H or 2 YEARS	1500 H or 3 YEARS	2000 H or 4 YEARS
PERIODIC SERVICE ➲	MANDATORY SERVICE	MANDATORY SERVICE + ❶	❶	❶+❷	❶	❶+❷+❸
MACHINE COUNTER ➲						
DATE OF SERVICING ➲						

WHEN DUE ➲	2500 H or 5 YEARS	3000 H or 6 YEARS	3500 H or 7 YEARS	4000 H or 8 YEARS	4500 H or 9 YEARS	5000 H or 10 YEARS	5500 H or 11 YEARS
PERIODIC SERVICE ➲	❶	❶+❷+❹	❶	❶+❷+❸	❶	❶+❷	❶
MACHINE COUNTER ➲							
DATE OF SERVICING ➲							

WHEN DUE ➲	6000 H or 12 YEARS	6500 H or 13 YEARS	7000 H or 14 YEARS	7500 H or 15 YEARS	8000 H or 16 YEARS	8500 H or 17 YEARS	9000 H or 18 YEARS
PERIODIC SERVICE ➲	❶+❷+❸+❹	❶	❶+❷	❶	❶+❷+❸	❶	❶+❷+❹
MACHINE COUNTER ➲							
DATE OF SERVICING ➲							

➲ ❶ 500H - PERIODIC SERVICE - EVERY 500 HOURS OF SERVICE OR 1 YEAR

** Consult your dealer.*

647562 (04/04/2024)
M ... P ST3B S4 EU

➲ ❷ 1000H - PERIODIC SERVICE - EVERY 1000 HOURS OF SERVICE OR 2 YEARS

ALSO PERFORM THE 500 HOUR PERIODIC MAINTENANCE OPERATIONS.

**** Consult your dealer.***

➲ ❸ 2000H - PERIODIC SERVICE - EVERY 2,000 HOURS OF SERVICE OR 4 YEARS

ALSO PERFORM THE 500 HOUR AND 1000 HOUR PERIODIC SERVICE OPERATIONS.

**** Consult your dealer.***

647562 (04/04/2024)
M ... P ST3B S4 EU

➲ ❹ 3000H - PERIODIC SERVICE - EVERY 3000 HOURS OF SERVICE OR 6 YEARS

ALSO PERFORM THE 500 HOUR AND 1000 HOUR PERIODIC MAINTENANCE OPERATIONS.

**** Consult your dealer.***

➲ ❺ 4000H - PERIODIC SERVICE - EVERY 4000 HOURS OF SERVICE OR 8 YEARS

ALSO PERFORM THE 500 HOUR, 1,000 HOUR AND 2,000 HOUR PERIODIC SERVICE OPERATIONS.

**** Consult your dealer.***

OCCASIONAL MAINTENANCE AND OPERATION

➲ OCCASIONAL SERVICE

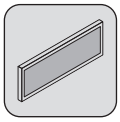
➲ OCCASIONAL OPERATION

647562 (04/04/2024)
M ... P ST3B S4 EU

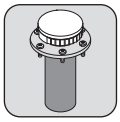
FILTER CARTRIDGES AND BELTS

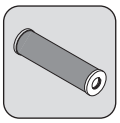
➲ ❶ 500H - PERIODIC SERVICE - EVERY 500 HOURS OF SERVICE OR 1 YEAR


ENGINE OIL FILTER

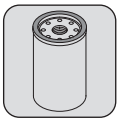

CAB FAN FILTER


CAB VENTILATION FILTER (AIR CONDITIONING OPTION)


HYDRAULIC OIL TANK PLUG


HYDRAULIC RETURN OIL FILTER
(Only for M ... H)


HYDRAULIC RETURN OIL FILTER
(except for M ... H)

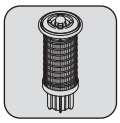

GEAR BOX OIL FILTER
(except for M ... H)


FRONT AXLE COOLING CIRCUIT FILTER
(except for M ... H)

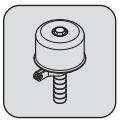
➲ ❷ 1000H - PERIODIC SERVICE - EVERY 1000 HOURS OF SERVICE OR 2 YEARS

ALSO ADD FILTER ELEMENTS FOR PERIODIC MAINTENANCE AFTER 500 HOURS OF SERVICE.

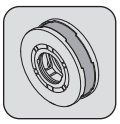

DRY AIR FILTER


FUEL PRE-FILTER


FUEL FILTER

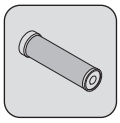

BREATHER FOR THE HYDRAULIC OIL TANK


FUEL TANK BREATHER


ENGINE CRANKCASE VENTILATION FILTER

➲ ❸ 2000H - PERIODIC SERVICE - EVERY 2000 HOURS OF SERVICE OR 4 YEARS

ALSO ADD FILTER ELEMENTS FOR PERIODIC MAINTENANCE AT 500 HOURS AND 1000 HOURS OF SERVICE.


SAFETY DRY AIR FILTER

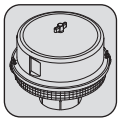

COMPRESSOR BELT (OPTION AIR CONDITIONING)

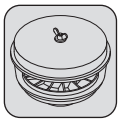
➲ ❹ 3000H - PERIODIC SERVICE - EVERY 3000 HOURS OF SERVICE OR 6 YEARS

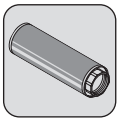
ALSO ADD FILTER ELEMENTS FOR PERIODIC MAINTENANCE AT 500 HOURS AND 1000 HOURS OF SERVICE.


ALTERNATOR BELT

➲ OCCASIONAL SERVICE


SELF-CLEANING PRE-FILTER


CYCLONIC PRE-FILTER (OPTION)


SUCTION STRAINER FOR HYDRAULIC OIL TANK (hydraulic circuit)

⚠ IMPORTANT ⚠

USE THE RECOMMENDED LUBRICANTS AND FUEL:
- For topping up, oils may not be miscible.
- For oil changes, MANITOU oils are perfectly suitable.

DIAGNOSTIC ANALYSIS OF OILS

Under a service or maintenance contract set up with the dealer, a diagnostic analysis of engine, transmission and axle oils may be requested depending on the rate of use.

(*) REQUIRED FUEL SPECIFICATION

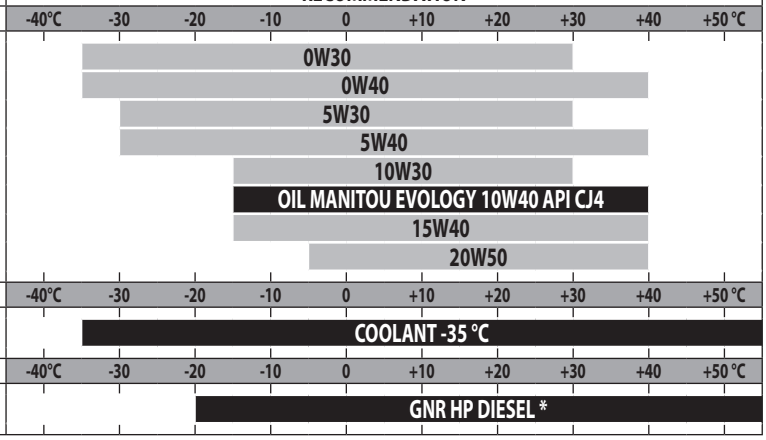
Use a high-quality fuel to obtain optimal performance of the engine.

- Type of diesel fuel EN590 (sulphur content < 10 ppm)
- Type of diesel fuel ASTM D975 (sulphur content < 15 ppm)

RECOMMENDATION

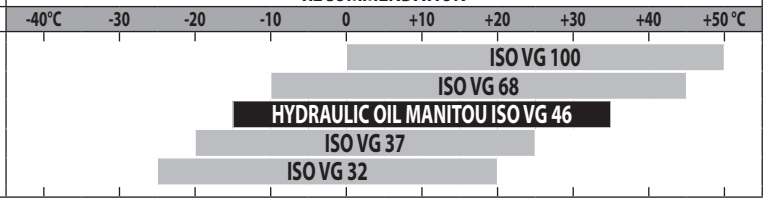
ENGINE

PARTS TO BE LUBRICATED	CAPACITY	RECOMMENDATION
ENGINE	8 Litres	0W30 / 0W40 / 5W30 / 5W40 / 10W30 / **OIL MANITOU EVOLOGY 10W40 API CJ4** / 15W40 / 20W50
COOLING CIRCUIT	12.3 Litres	**COOLANT -35 °C**
FUEL TANK	85 Litres	**GNR HP DIESEL ***



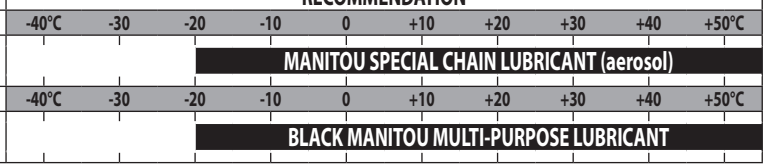
HYDRAULICS

PARTS TO BE LUBRICATED	CAPACITY	RECOMMENDATION
HYDRAULIC OIL TANK	80 Litres	ISO VG 100 / ISO VG 68 / **HYDRAULIC OIL MANITOU ISO VG 46** / ISO VG 37 / ISO VG 32



MAST

PARTS TO BE LUBRICATED	RECOMMENDATION
MAST LIFTING CHAINS	**MANITOU SPECIAL CHAIN LUBRICANT (aerosol)**
GREASING OF THE MAST	**BLACK MANITOU MULTI-PURPOSE LUBRICANT**

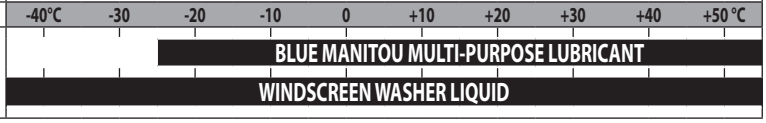


BRAKES

PARTS TO BE LUBRICATED	CAPACITY	RECOMMENDATION
BRAKE SYSTEM	1.5 Litres	**MANITOU MINERAL BRAKE FLUID**

CAB

PARTS TO BE LUBRICATED	RECOMMENDATION
CAB DOOR	**BLUE MANITOU MULTI-PURPOSE LUBRICANT**
WINDSCREEN WASHER TANK	**WINDSCREEN WASHER LIQUID**



647562 (04/04/2024)
M ... P ST3B S4 EU

TRANSMISSION

PARTS TO BE LUBRICATED	CAPACITY	RECOMMENDATION
		-40°C -30 -20 -10 0 +10 +20 +30 +40 +50 °C
M ..-2 / M ..-4 GEARBOX	17.5 Litres	MANITOU DX IIIG AUTOMATIC TRANSMISSION OIL
M ..-2H TRANSFER BOX	3 Litres	

FRONT AXLE

PARTS TO BE LUBRICATED	CAPACITY	RECOMMENDATION
FRONT WHEEL REDUCING GEAR	2 x 0.75 Litres	SPECIAL MANITOU OIL FOR IMMERSED BRAKES
M ..-2 / M ..-4 FRONT AXLE DIFFERENTIAL	12 Litres	
M ..-2H FRONT AXLE DIFFERENTIAL	8 Litres	

REAR AXLE

PARTS TO BE LUBRICATED	CAPACITY	RECOMMENDATION
		-40°C -30 -20 -10 0 +10 +20 +30 +40 +50 °C
SWIVEL PINS STEERING CYLINDER REAR AXLE OSCILLATION		BLUE MANITOU MULTI-PURPOSE LUBRICANT
M ..-4 REAR WHEEL REDUCING GEAR	2 x 0.75 Litres	SPECIAL MANITOU OIL FOR IMMERSED BRAKES
REAR AXLE DIFFERENTIAL	6.35 Litres	

➲ 10H - DAILY SERVICE OR EVERY 10 HOURS OF SERVICE

CHECK — Lift truck environment

⚠ IMPORTANT ⚠

Follow the operator instructions (◁ OPERATOR INSTRUCTIONS).

- Carry out a general inspection of the lift truck:
  - Fluid leaks or stains on the ground.
  - Additional objects on the lift truck and in the driver protection or the cab.
  - Mounting and adjustment of lights and rear view mirrors.
  - Mounting and locking of the attachment.
  - Condition of the tyres, to detect cuts, blisters, wear, etc.
- According to the conditions of use and the environment, ensure that the lift truck is clean:
  - Cleanliness of lights, rear view mirrors, and windows.
  - Cleanliness of the driver's cab (◁ 10H - DAILY MAINTENANCE).
  - Cleanliness of the engine housing and inside the frame to prevent leaks and build-up of materials (e.g. straw, flour, sawdust, organic waste, etc.).

⚠ IMPORTANT ⚠

Particular attention should be paid to accumulations of flammable materials and fuel or lubricant leaks. They increase the fire risk considerably.

CHECK — Engine oil level

- Place the lift truck on level ground with the engine stopped, and allow the engine to cool.
- Open the engine cover.
- Pull out dipstick 1.
- Clean the dipstick and check the correct level between the two notches.
- If necessary, add oil (◁ LUBRICANTS AND FUEL) through the filler hole 2.
- Visually check that there are no engine leaks.

CHECK — Coolant level

⚠ IMPORTANT ⚠

To avoid any risk of spraying or scalding, wait until the engine has cooled down before removing the cooling system filler plug.

In an emergency, it is possible to use water as the coolant, but then quickly replace with coolant (◁ 2000H - PERIODIC SERVICE).

- Place the lift truck on level ground with the engine stopped, and allow the engine to cool.
- Open the engine cover.
- Check the correct level in the middle of gauge 1.
- If necessary, add coolant (◁ LUBRICANTS AND FUEL).
- Slowly turn the cap of the radiator 2 up to the safety stop.
- Allow the pressure and the steam to escape.
- Press down and turn the cap so as to release it.
- Add cooling liquid via filler port 3 up to the middle of gauge 1.
- Lubricate slightly the filler neck in order to facilitate the setting and the removal of the radiator cap.
- Visually check that there is no leakage in the tank and pipes.

CHECK — Fuel level

NOTE: As far as possible, keep the fuel tank well filled in order to reduce condensation.

⚠ IMPORTANT ⚠

Never smoke or approach with a flame during filling operations or when the tank is open. Never refill while engine is running.

The fuel tank is degassed via the filling hole. When changing it, always use an original plug with a degassing hole.

- Check the fuel gauge on the instrument panel.
- If necessary, add diesel (◁ LUBRICANTS AND FUEL).
- Remove the cap 1.
- Fill the fuel tank with clean diesel filtered through the filler port 2.
- Refit the cap.
- Visually check that there is no leakage in the tank and pipes.

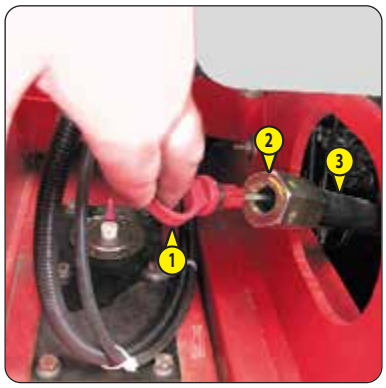
CHECK — Fuel pre-filter

⚠ IMPORTANT ⚠

Carefully clean the outside of the pre-filter and its holder, to prevent dust from getting into the system.

- Open the engine cover.
- Check for the presence of water in pre-filter tank 1 and drain it if necessary.
- Place a receptacle under the drain plug 2 and unscrew by two thread turns.
- Open bleed screw 3.
- Allow the diesel fuel to flow out until it is free from impurities and water.
- Retighten drain plug 2 and bleed screw 3.

CHECK M ..-2 / M ..-4 — Gear box oil level



- Place the lift truck on level ground with the I.C. engine cold and idling.
- Open the engine cover.
- Pull out dipstick 1.
- Wipe the dipstick and check the correct level at the upper mark.
- If necessary, add oil (◁ LUBRICANTS AND FUEL).
  - Unscrew the filler plug 2.
  - Add oil through filler hole 3.
  - Refit the filler cap 2 and the dipstick 1.
- Visually check that there is no leakage or seepage of oil in the gearbox.

CLEAN — Cyclonic pre-filter (option)

NOTE: The frequency of cleaning is given as an example. However, as soon as impurities reach the MAX level on the tank, the pre-filter must be emptied and cleaned.

⚠ IMPORTANT ⚠

When cleaning, take care not to let impurities into the dry air filter.

- Undo the nut 1 and remove the cover 2.
- Empty the tank.
- Clean the pre-filter unit with a clean dry cloth and reassemble the unit.

NOTE: The frequency of cleaning is given as an example.

⚠ IMPORTANT ⚠

Do not use a high pressure cleaner or water jet.

Take precautions with electrical and electronic components.

- Clean the inside of the overhead guard or the cab using a small brush, vacuum cleaner and a cloth.

647562 (04/04/2024)
M ... P ST3B S4 EU

➲ 50H - WEEKLY SERVICE OR EVERY 50 HOURS OF SERVICE

CHECK — Wheel reducer seals

- Visually check that there is no leakage or seepage.
- If there is any leakage or seepage, check the level:

FRONT WHEEL REDUCERS

REAR WHEEL REDUCERS M .. -4

- Place the lift truck on level ground with the engine stopped.
- Place level plug 1 in a horizontal position.
- Remove the level plug; the oil should be flush with the edge of the opening.
- If necessary, add oil (◅ LUBRICANTS AND FUEL) by the same hole.
- Refit and tighten the level plug (tightening torque 34 - 49 N.m).

CHECK — Axle differential seal

- Visually check that there is no leakage or seepage.
- If there is any leakage or seepage, check the level:

FRONT WHEEL REDUCERS

M ..-2 / M ..-4

- Place the lift truck on level ground with the engine stopped.
- Remove the level plug 1, the oil should be flush with the edge of the hole.
- If necessary, add oil (◅ LUBRICANTS AND FUEL) by the same hole.
- Refit and tighten the level plug 1 (tightening torque 34 - 49 N.m).

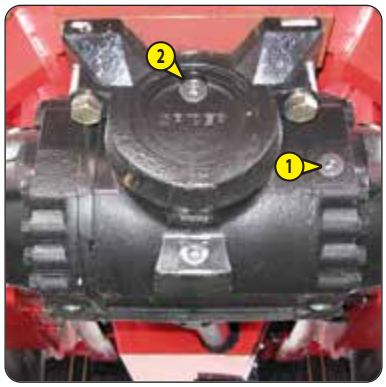
FRONT WHEEL REDUCERS

M ..-2H

- Place the lift truck on level ground with the engine stopped.
- Remove the level plug 1, the oil should be flush with the edge of the hole.
- If necessary, add oil (◅ LUBRICANTS AND FUEL) through the filler hole 2.
- Refit and tighten the plugs 1 and 2 (tightening torque 34 - 49 N.m).

REAR WHEEL REDUCERS

M .. -4



- Place the lift truck on level ground with the engine stopped.
- Remove the level plug 1, the oil should be flush with the edge of the hole.
- If necessary, add oil (◅ LUBRICANTS AND FUEL) through the filler hole 2.
- Refit and tighten the plugs 1 and 2 (tightening torque 34 - 49 N.m).

CHECK — Tyre pressures

CHECK — Wheel nut tightening

⚠ IMPORTANT ⚠

Check that the air hose is correctly connected to the tyre valve before inflating and keep all persons at a distance during inflation.
Inflate to the recommended tyre pressures.

- Check the condition of the tyres, to detect cuts, blisters, wear, etc.
- Check the wheel nut tightening. Non-compliance with this instruction can lead to deterioration and breakage of the wheel bolts and distortion of the wheels.
- Check and, if necessary, adjust the tyre pressures (◅ TYRES).

NOTE: There is an OPTIONAL wheel tool kit.

CHECK — Brake fluid level

⚠ IMPORTANT ⚠

If the brake oil level is abnormal consult your dealer.

- Place the lift truck on level ground.
- Remove the front plate 1.
- The level is correct when it is at the MAX level on the tank.
- If necessary, add oil (◅ LUBRICANTS AND FUEL) through the filler hole 2.
- Visually check that there is no leakage in the tank and pipes.
- Refit the front plate 1.

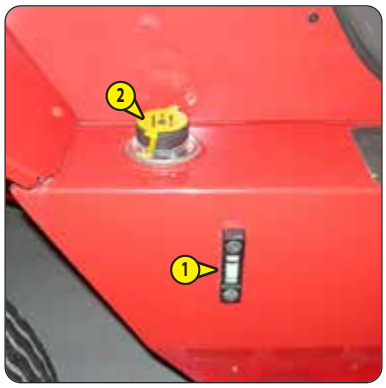
CHECK — Hydraulic oil level

⚠ IMPORTANT ⚠

Use a clean funnel and clean the underside of the oil drum before filling.

- Place the lift truck on level ground with the engine stopped, the mast tilted backwards and lowered as far as possible.
- Refer to the dipstick 1.
- The level is correct when it is between the two indicator marks.
- If necessary, add oil (◅ LUBRICANTS AND FUEL).
- Remove the filler cap lock 2.
- Remove cap 3.
- Add oil through filler hole 4.
- Refit the cap and its lock.
- Visually check that there is no leakage in the tank and pipes.

NOTE: Always maintain the oil level at a maximum as cooling depends on the oil flowing through the tank.



647562 (04/04/2024)
M ... P ST3B S4 EU

CHECK — Windscreen washer level

- Open the engine cover (◁ COMMAND AND CONTROL INSTRUMENTS).
- Visually check the level.
- If necessary, add windscreen washer fluid (◁ LUBRICANTS AND FUEL) through the filler hole 1.

CHECK — Mast uprights*

N.B. When the lift truck is put into service by the dealer, lubricate the mast uprights.

⚠ IMPORTANT ⚠

Use in an abrasive atmosphere (dust, sand, coal, cement, etc.). consult your dealer.

- Deploy the mast completely.
- Check the condition of the uprights and the rollers (traces of wear, corrosion, etc.).
- If necessary, lubricate the sliding surfaces (◁ LUBRICANTS AND FUEL).
- Remove the surplus of grease.

CHECK - ADJUST — Tension and alignment of the mast lifting chains

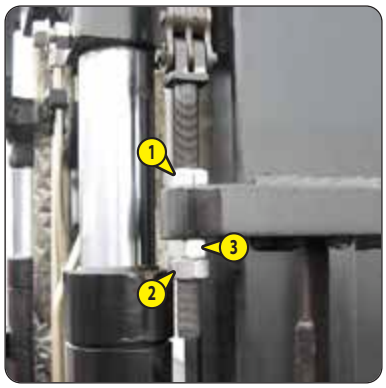
⚠ IMPORTANT ⚠

These checks are important to ensure correct mast operation.
In case of technical faults, consult your dealer.

- Place the lift truck on level ground with the mast vertical and the forks raised approximately 200 mm.
- Check the alignment of the mast lifting chains between the carriage chain fasteners and the chain rollers.
- Manually check the chain tension and, if necessary, adjust it while ensuring that the carriage is perpendicular to the mast:

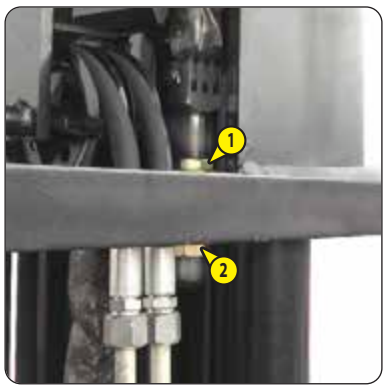
M26 ... M30 ...

- Loosen nut 1.
- Loosen the chain tensioner lock nut 2.
- Adjust the tension by tightening or loosening the nut 3 while checking the alignment of the lifting chains.
- Then tighten lock nut 2 and nut 3.
- Retighten the nut 1.

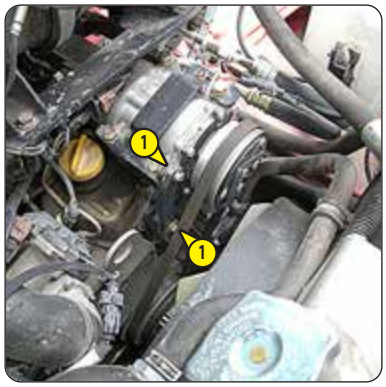


M40 ... M50 ...

- Loosen the chain tensioner locknut 1.
- Adjust the tension by tightening or loosening the nut 2 while checking the alignment of the lifting chains.
- Then tighten lock nut 1 and nut 2.



CHECK — Compressor belt tension (Air conditioning option)



⚠ IMPORTANT ⚠

If the compressor belt has to be changed, check the tension again after the first 20 hours of operation.

- Open the engine cover.
- Check the belt for signs of wear and cracks and change if necessary (◁ FILTER CARTRIDGES AND BELTS).
- Check the belt tension between the crankshaft and alternator pulleys.
- Under normal pressure exerted with the thumb (45 N), the tension should be approximately 10 mm.
- Adjust if necessary.
- Loosen screws 1 by two to three turns.
- Swivel the alternator assembly so as to obtain the required belt tension.
- Retighten screws 1 (tightening torque 22 N.m).

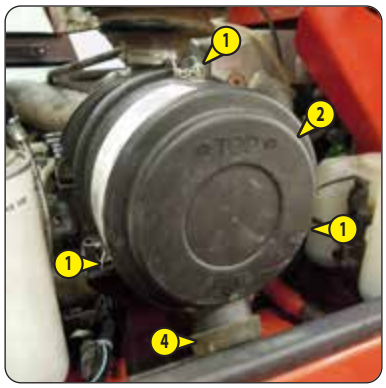
CLEAN — Radiator harness

⚠ IMPORTANT ⚠

In a polluting atmosphere, clean the radiator core every day.
Do not use a water jet or high-pressure steam as this could damage the radiator fins.

- Open the engine cover.
- If necessary, clean the suction grid on the engine hood.
- Using a soft cloth, clean the radiator in order to remove as much dirt as possible.
- Clean the radiator using a compressed air jet aimed from the engine towards the radiator, in the opposite direction to the cooling air flow.

CLEAN — Dry air filter cartridge



NOTE: Pre-filtration cartridges are available for use in very dusty atmospheres (◁ FILTER CARTRIDGES AND BELTS). The cartridge checking and cleaning interval must also be reduced.

⚠ IMPORTANT ⚠

If the clogging indicator light comes on, this operation should be performed as soon as possible (maximum 1 hour).
The cartridge must not undergo more than seven cleaning operations. Beyond seven, the cartridge must be changed.
Never operate the lift truck with the air filter removed or damaged.

- Open the engine cover.
- Release the locks 1 and remove the cover 2.
- Carefully remove the cartridge 3 taking care to avoid spilling the dust.
- Clean the filter cartridge using a compressed air jet (max. pressure 3 bars) from the top to the bottom and from the inside towards the outside at 30 mm minimum from the cartridge wall.
- Cleaning is completed when there is no more dust on the cartridge.

⚠ IMPORTANT ⚠

The cartridge must not be blown close to the air filter unit.
Never clean the cartridge by tapping it on a hard surface.
Protect your eyes during this operation.

- Clean the cartridge gasket with a damp, clean, lint-free cloth.
- Grease the seal with a silicone lubricant (part No. MANITOU: 479292).
- Refit the cover, with the valve 4 directed downwards.
- Visually check the condition of the air filter and its hoses.

⚠ IMPORTANT ⚠

Never wash a dry air filter cartridge.
Never clean the safety cartridge located inside the filter cartridge. Change it for a new one if it is clogged or damaged.

647562 (04/04/2024)
M ... P ST3B S4 EU

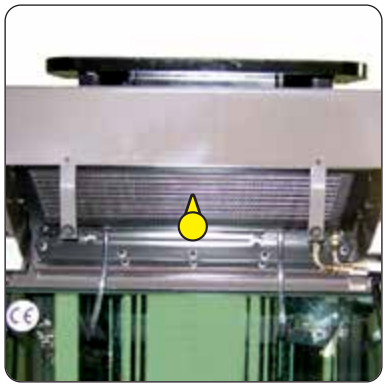
CLEAN — Condenser harness (air conditioning option)

⚠ IMPORTANT ⚠

In a polluting atmosphere, clean the radiator core every day.

Do not use a water jet or high-pressure steam as this could damage the condenser fins.

- Visually check whether the condenser is clean and, if necessary, clean it.
- Clean the condenser using a compressed air jet aimed in the same direction as the air flow.
- Clean with the fans running for best results.



CLEAN — Cab ventilation filter (air conditioning option)

- Remove the protective casing 1.
- Take out the ventilation filter 2.
- Clean the filter with a compressed air jet.
- Check its condition and change if necessary (◅ FILTER CARTRIDGES AND BELTS).
- Refit the filter and protective casing.

LUBRICATE — General lubrication

NOTE: To be carried out weekly, if the lift truck has been operated for less than 50 hours during the week.

⚠ IMPORTANT ⚠

In an extremely dusty or oxidising atmosphere, reduce this interval to every 10 hours of service or every day.

- Clean, then lubricate the following points with grease (◅ LUBRICANTS AND FUEL) and remove the surplus.

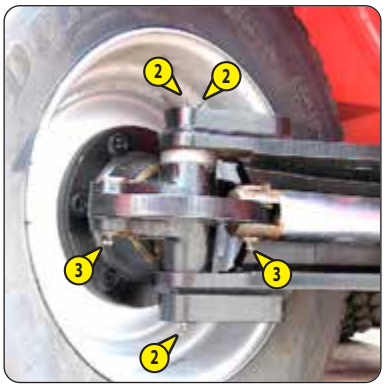
CAB DOORS

1 - Cab door pivot pins (8 lubricators).

REAR AXLE

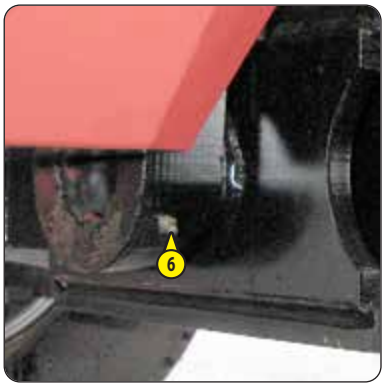
M26-2 ... M30-2 ...

2 - Swivel pins (6 lubricators).
3 - Steering cylinder (4 lubricators).
4 - Rear axle oscillation (2 lubricators).



M40-2 ... M50-2 ...

5 - Swivel pins (4 lubricators).
6 - Rear axle oscillation (2 lubricators).

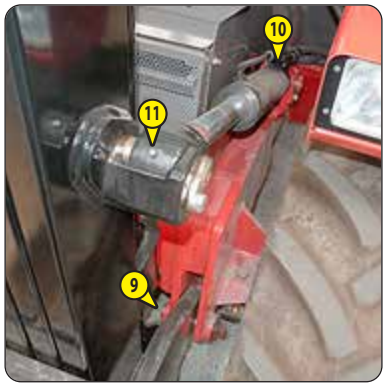


M26-4 ... M30-4 ...
M40-4 ... M50-4 ...

7 - Rear wheel reduction gear pivots (2 lubricators).
8 - Rear axle oscillation (2 lubricators).

TILTING THE MAST

9 - Articulation at the foot of the mast (2 lubricators).
10 - Tilt cylinder foot (2 lubricators).
11 - Tilt cylinder head (2 lubricators).



MAST

M40 ... M50 ...

12 - Lubricators of upper guide rollers on mast (2 lubricators).
13 - Lubricators of lower guide rollers on mast (2 lubricators).

NOTE: Wide tyre OPTION, raise the forks approximately 2m to lubricate the lower mast guide rollers via hole A.

➲ ❶ 500H - PERIODIC SERVICE - EVERY 500 HOURS OF SERVICE OR 1 YEAR

CHECK — Hydraulic oil

MANITOU offers a hydraulic oil analysis kit which makes it possible to extend the recommended interval for the periodic service (2000 hours).

In this case, we recommend an analysis of the hydraulic oil every 500 hours of service.

This analysis kit makes it possible to confirm the oil quality to reach the deadline of 2000 hours.

MANITOU oil analysis kit Part No. 958162.

- Order an oil analysis kit from your dealer.
- On receipt of the kit, take a sample and follow the detailed instructions.
- According to the results, keep the analysis report or replace the hydraulic oil.

NOTE: This kit is highly recommended for specific uses causing stresses on the hydraulic circuit:

- Extreme environmental conditions,
- Use of attachments with a very high hydraulic flow rate (sweepers, mixers, etc.).

CHECK - ADJUST — Parking brake

LUBRICATE — Parking brake

BRAKE INSPECTION

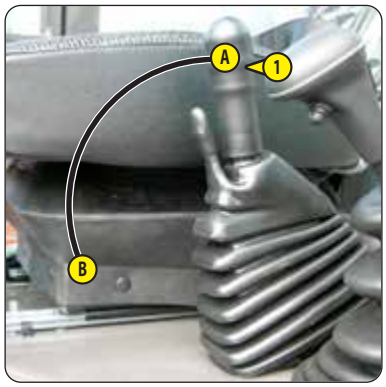
⚠ IMPORTANT ⚠

The manufacturer's stop settings must not be changed under any circumstances.

- Place the lift truck on a slope of at least 15 % with the rated load in the transport position.
- Check the tightening adjustment by locking the parking brake in position A.

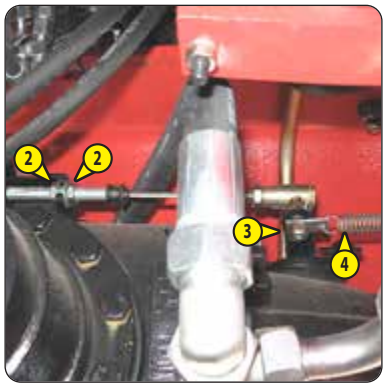
The adjustment is correct when the lift truck remains stationary on the slope.

- Adjust if necessary.



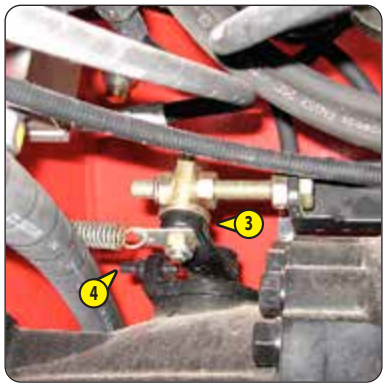
ADJUSTING THE PARKING BRAKE

- Leave the parking brake in position B.
- Progressively tighten the end of the lever 1 and recheck braking.
- Repeat the operation until the correct braking adjustment is obtained.



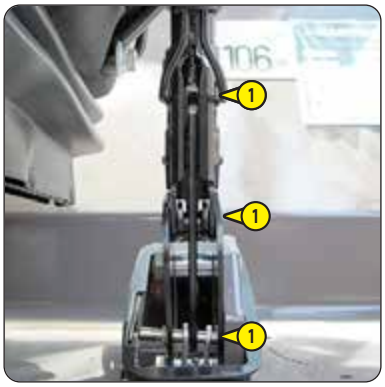
ADJUSTING THE PARKING BRAKE CABLE ON THE FRONT AXLE

- Press and release the brake pedal, then release the parking brake in position B.
- Unscrew the nuts 2.
- Adjust the cable by tightening or loosening the nuts 2 to obtain a clearance of 1,5 mm between the cams 3 and the stops 4.



BRAKE LUBRICATION

- Clean and lubricate the pivot pins 1 with grease (◁ LUBRICANTS AND FUEL).

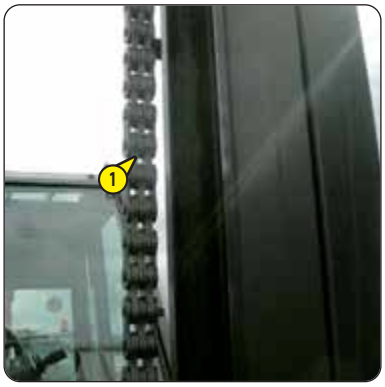


GREASE — *Mast lifting chains*

⚠ IMPORTANT ⚠

In case of technical faults, consult your dealer.

- Wipe the chains 1 with a clean, lint-free cloth.
- Carefully inspect the chains to detect any signs of wear.
- Brush the chains vigorously with a hard nylon brush and clean diesel to eliminate any foreign bodies.
- Rinse the chains with a brush soaked in clean diesel.
- Dry the chains with a jet of compressed air.
- Grease the chains sparingly (◁ LUBRICANTS AND FUEL).



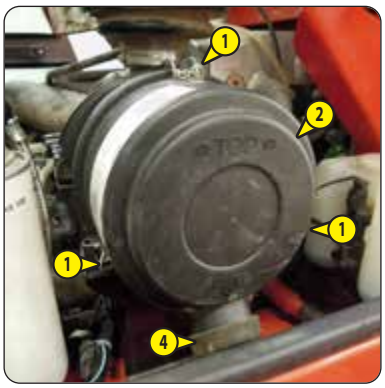
REPLACE — *Dry air filter cartridge*

NOTE: Pre-filtration cartridges are available for use in very dusty atmospheres (◁ FILTER CARTRIDGES AND BELTS). Similarly, the replacement interval for the cartridge with pre-filtration must be reduced to 250 hours.

⚠ IMPORTANT ⚠

Change the cartridge in a clean location, with the engine stopped.
Never operate the lift truck with a cartridge removed or damaged.

- Open the engine cover.
- Release the locks 1 and remove the cover 2.
- Carefully remove the cartridge 3 taking care to avoid spilling the dust.
- Leave the safety cartridge in place.
- Carefully clean the following parts with a clean, damp, lint-free cloth:
  - The inside of the filter and cover.
  - The inside of the filter inlet hose.
  - The gasket surfaces in the filter support and in the cover.
- Check the following points:
  - The condition and attachment of the connection pipe to the engine.
  - The condition and connection of the clogging indicator on the filter.
- Before fitting check the condition of the new cartridge (◁ FILTER ELEMENTS AND BELTS).
- Grease the cartridge seal with a silicone lubricant (part No. MANITOU: 479292).
- Insert the cartridge in the filter axis and push the cartridge pressing against the outer edge and not the centre.
- Refit the cover, with the valve 4 directed downwards.



⚠ IMPORTANT ⚠

Recycle the drained oil and the filters in an environmentally friendly way.
Tighten the oil filter by hand pressure only and lock the filter in place by a quarter turn.

- Place the lift truck on level ground, let the engine run at idle for a few minutes, then stop the engine.
- Open the engine cover.
- Remove the access panel 1.

DRAINING THE OIL

NOTE: Clean the environment of the filter and the drain plug to avoid any risk of contaminating the engine components.

- Place a container under the drain plug 2 and unscrew it.
- Remove the filler plug 3 to ensure that the oil is drained properly.

REPLACEMENT OF THE FILTER

- Unscrew and recycle the engine oil filter 4, together with its seal.
- Clean the filter bracket with a clean, lint-free cloth.
- Lightly oil the seal before refitting the new oil filter (◅ FILTER ELEMENTS AND BELTS) on its bracket (tightening torque 30 N.m).

FILLING WITH OIL

- Refit and tighten the drain plug 2 (tightening torque34 - 49 N.m).
- Fill up with oil (◅ LUBRICANTS AND FUEL) through filler hole 5.

NOTE: For this operation, we recommend you use a funnel fitted with a hose.

- Wait a few minutes to allow the oil to flow into the sump.
- Start the engine and let it run for a few minutes.
- Check for any possible leaks from the oil filter drain plug.
- Stop the engine and wait a few minutes.
- Check the correct level between the two marks on dipstick 6.
- Top up if necessary.
- Refit the access cover 1.

INITIALISATION OF 500-HOUR MAINTENANCE

- After changing the engine oil, turn off the indicator light to reset the maintenance counter to 500 hours, using the following steps (engine off, ignition in position 1):
  - 1 - Depress the accelerator pedal to maximum for between 15 and 20 seconds.
  - 2 - Release the accelerator pedal for between 15 and 20 seconds.
  - 3 - Depress the accelerator pedal to maximum for between 15 and 20 seconds.
  - 4 - Release the accelerator pedal for between 15 and 20 seconds.
  - 5 - Depress the accelerator pedal to halfway for between 15 and 20 seconds.

NOTE: If the indicator lamp comes on before the 500 hour maintenance, replace the engine oil. This is due to a large number of automatic exhaust particle filter regenerations and "stationary lift truck" exhaust particle filter regenerations.

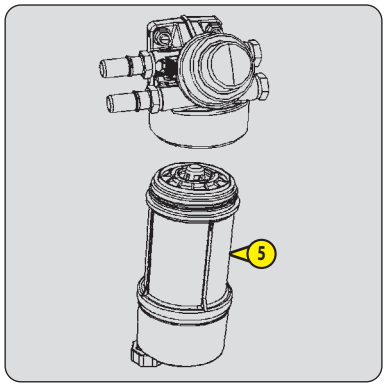
647562 (04/04/2024)
M ... P ST3B S4 EU

REPLACE Fuel pre-filter

⚠ IMPORTANT ⚠

Carefully clean the outside of the pre-filter and its holder to prevent dust from getting into the system.

- Open the engine cover.
- Scribe a mark A between the head and the housing of the pre-filter.
- Place a receptacle under the drain plug 1 and unscrew by two to three turns.
- Open bleed screw 2 to ensure proper emptying.
- Re-tighten bleed screw 2 once the pre-filter is emptied.
- Disconnect electrical wiring harness 3 from the fuel pre-filter.
- Unscrew the body of the pre-filter 4.
- Unscrew the cartridge 5 and discard it, together with its seal.
- Clean the inside of the pre-filter head and housing using a brush immersed in clean diesel oil.
- Refit the assembly with a new cartridge and a new seal lubricated with clean engine oil beforehand (◁ FILTERS CARTRIDGES AND BELTS).
- Correctly position the cartridge in the pre-filter housing and screw the assembly by hand only onto the head of the pre-filter until mark A is aligned.
- Replace the fuel filter cartridge.

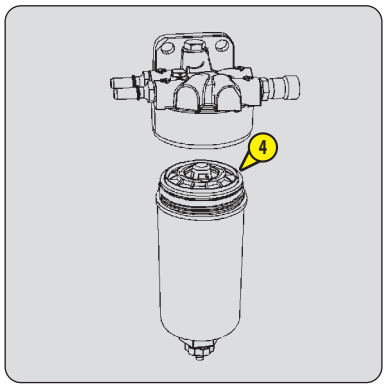


REPLACE Fuel filter

⚠ IMPORTANT ⚠

Carefully clean the outside of the pre-filter and its holder to prevent dust from getting into the system.

- Open the engine cover.
- Scribe a mark A between the head and the housing of the filter.
- Place a receptacle under the drain plug 1 and unscrew by two to three turns.
- Open bleed screw 2 to ensure proper emptying.
- Retighten bleed screw 2 once the filter is emptied.
- Undo the filter housing 3.
- Unscrew the cartridge 4 and discard it, together with its seal.
- Clean the inside of the filter head and housing using a brush immersed in clean diesel oil.
- Refit the assembly with a new cartridge and a new seal lubricated with clean engine oil beforehand (◁ FILTERS CARTRIDGES AND BELTS).
- Correctly position the cartridge in the filter housing and screw the assembly by hand only onto the head of the pre-filter until mark A is aligned.
- Bleed the fuel supply circuit (◁ FUEL SUPPLY SYSTEM).



647562 (04/04/2024)
M ... P ST3B S4 EU

REPLACE M ..-2 / M ..-4 Gear box oil filter

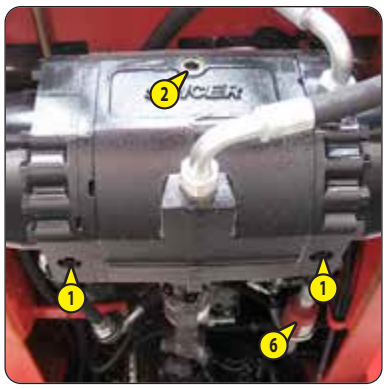
⚠ IMPORTANT ⚠

Tighten the gear box oil filter by hand pressure only and lock the filter in place by a quarter turn.

- Unscrew and discard gear box oil filter 1.
- Carefully clean the filter head with a clean, lint-free cloth.
- Lightly grease the new seal and fit it on the new filter (◁ FILTERS CARTRIDGES AND BELTS).
- Fill the new gearbox oil filter with oil (◁ FILTERS CARTRIDGES AND BELTS).
- Refit and tighten the filter, making sure that the seal is correctly positioned.

REPLACE M ..-2 / M ..-4 Front axle differential oil (with oil cooler)

REPLACE M ..-2 / M ..-4 Front axle oil cooling circuit filter



Place the lift truck on level ground with the engine stopped and the differential oil still warm.

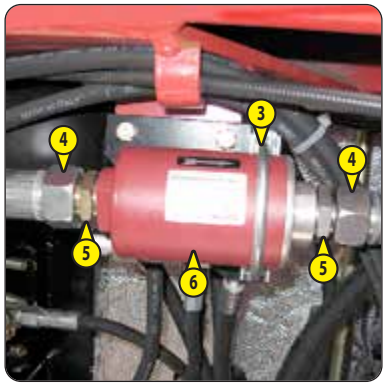
⚠ IMPORTANT ⚠

Dispose of the drain oil in an ecological manner.

DRAINING THE OIL

- Place a container under drain plugs 1 and unscrew them.
- Remove level and filling plug 2 to ensure proper emptying.
- Refit and tighten the drain plugs 1 (tightening torque 34 - 49 N.m).

REPLACEMENT OF THE FILTER



- Unscrew the half clamp 3.
- Undo the two hoses 4 and remove the two connectors 5.
- Replace the filter 6 (◁ FILTER ELEMENT AND BELTS).

⚠ IMPORTANT ⚠

Be careful to mount the filter 6 in the same direction as the arrow.

- Retighten the two hoses 4 and the two connectors 5.
- Retighten the half clamp 3.

FILLING WITH OIL

- Fill up with oil (◁ LUBRICANTS AND FUEL) by the level and filler hole 2 until the oil is flush with the opening.
- Screw the plug 2 without tightening it.
- Start the engine and allow to run for a few minutes to fill the cooling circuit.
- Stop the engine, wait a few minutes and top-up the level.
- Unscrew the plug 2 again.
- The level is correct when the oil level is flush with the edge of the level and filler port 2.
- Check for any possible leaks at the drain plugs.
- Refit and tighten the level and filler plug 2 (tightening torque 34 - 49 N.m).

REPLACE — Hydraulic return oil filter cartridge

⚠ IMPORTANT ⚠

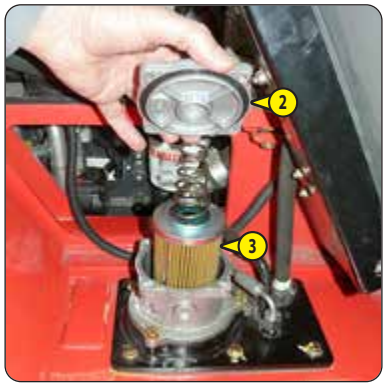
Do not operate the lift truck without the cartridge in place, as this would immediately damage the hydraulic transmission system, the pump and the hydrostatic wheel motors.

- Stop the engine and release the pressure from the systems by operating the hydraulic controls.
- Open the engine cover.
- Remove the side panel 1.

NOTE: Clean the environment of the filter to avoid any risk of contaminating the hydraulic circuit components.

M ..-2 / M ..-4

- Unscrew the fastening screws of the cover 2.
- Remove the hydraulic return oil filter cartridge 3 and replace with a new one (◁ FILTERS CARTRIDGES AND BELTS).
- Make sure that the cartridge is correctly positioned and refit the cover 2.



M ..-2H

- Unscrew the cover 2 by two or three thread turns.
- Wait a few moments while the oil flows into the tank.
- Remove the cover and slowly take out the filter cartridge assembly 3 slowly.
- Place the assembly in a clean container and empty the bowl.
- Separate the housing 4 and the head 5 from the filter cartridge 6 with a twisting motion.
- Refit the tank and head onto a new cartridge (◁ FILTER CARTRIDGES AND BELTS).
- Put back the assembly then retighten the cover 2.

REPLACE — Cab fan filter

- Remove the protective casing 1.
- Take out the ventilation filter 2 and replace it with a new one (◁ FILTER CARTRIDGES AND BELTS).
- Refit the protective casing.

REPLACE — Cab ventilation filter (air conditioning option)

- Remove the protective casing 1.
- Take out the ventilation filter 2 and replace it with a new one (◁ FILTER CARTRIDGES AND BELTS).
- Refit the protective casing.

CHECK — Fork wear *

** Consult your dealer.*

➲ ❷ 1000H - PERIODIC SERVICE - EVERY 1000 HOURS OF SERVICE OR 2 YEARS

ALSO PERFORM THE 500 HOUR PERIODIC MAINTENANCE OPERATIONS.

CHECK — Safety belt

⚠ IMPORTANT ⚠

Under no circumstances must the lift truck be used if the seat belt is defective (fixing, locking, cuts, tears, etc.).
Immediately repair or replace the safety belt.

SEAT BELT WITH TWO ANCHORING POINTS

- Check the following points:
  - Fixing of the anchoring points on the seat.
  - Cleanness of the strap and the locking mechanism.
  - Triggering of the locking mechanism.
  - Condition of the strap (cuts, curled edges).

REELED SEAT BELT WITH TWO ANCHORING POINTS

- Check the points listed above together with the following points:
  - The correct winding of the belt.
  - Condition of the reel guards.
  - Roller locking mechanism when the strap is given a sharp tug.

NOTE: After an accident, replace the safety belt.

CLEAN — Fuel tank

REPLACE — Fuel tank breather

⚠ IMPORTANT ⚠

While carrying out these operations, do not smoke or work near a flame.
Never try to carry out a weld or any other operation by yourself, this could provoke an explosion or a fire.

- Place the lift truck on level ground with the engine stopped.
- Check for any possible leaks in the fuel circuit and tank.
- In the event of a leak, contact your dealer.
- Place a container under the drain plug 1 and unscrew it.
- Remove the filler plug 2 to ensure that the oil is drained properly.
- Rinse out with ten litres of clean diesel through filler port 3.
- Refit and tighten the drain plug 1 (tightening torque 72 - 88 N.m).
- Unscrew the filter 5 and replace with a new one (◅ FILTER ELEMENTS AND BELTS) (tightening torque 5 ±2 N.m).
- Fill the fuel tank with clean, filtered diesel.
- Refit the filler plug.
- If necessary, bleed the fuel supply circuit (◅ OCCASIONAL MAINTENANCE).

REPLACE — Dry air filter safety cartridge

⚠ IMPORTANT ⚠

The frequency of changing the safety cartridge is given as an example.
It must be changed every second time the dry air filter cartridge is changed.

To dismantle and refit the dry air filter cartridge (◅ 500H: REPLACE Air filter cartridge).

- Carefully remove the safety cartridge 1 taking care to avoid spilling the dust.
- Clean the gasket surface in the filter holder with a damp, clean, lint-free cloth.
- Check the condition of the new safety cartridge before fitting (◅ FILTER ELEMENTS AND BELTS).
- Insert the cartridge in the filter axis and push the cartridge pressing against the outer edge and not the centre.

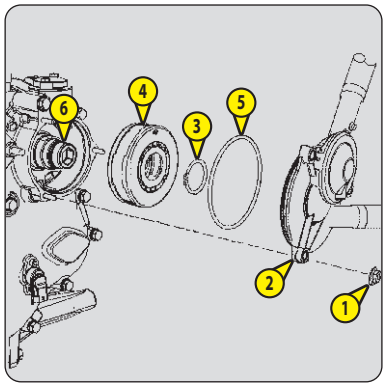
647562 (04/04/2024)
M ... P ST3B S4 EU

REPLACE — Engine crankcase ventilation filter

- Open the engine cover.
- Carefully clean the outside of the filter and its holder, to prevent dust from getting into the system.
- Undo the nuts 1 and remove the cover 2.
- Remove the circlips 3.
- Extract and discard the filter 4, together with the seal 5 on the cover.
- Refit a filter 4 and a new seal 5 (◁ FILTER ELEMENTS AND BELTS).

NOTE: Ensure that the flats of the filter 4 and shaft 6 are aligned.

- Put back the circlips 3.
- Refit the cover 2 and tighten the nuts 1 (tightening torque 25 N.m).



REPLACE — Coolant

⚠ IMPORTANT ⚠

The engine does not contain any anti-corrosion element and must be filled with a mixture containing a minimum of 25 % ethylene glycol-based antifreeze all year round.

These operations are to be carried out as necessary or every two years at the beginning of winter.

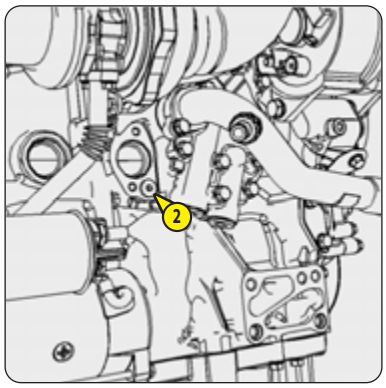
- Place the lift truck on level ground with the engine stopped and cold.
- Open the engine cover.

DRAINING THE LIQUID

- Place a container under hose 1 on the radiator and drain plug 2 of the engine block.
- Remove the hose and loosen the drain plug.
- Remove radiator filler cap 3.
- Let the cooling circuit drain entirely while ensuring that the ports do not get clogged.
- Check the condition of the hoses and their fixings, and change the hoses if necessary.
- Rinse the circuit with clean water, or use a cleaning agent if necessary.

FILLING WITH COOLANT

- Refit and tighten the hose 1 and the drain plug 2 (tightening torque 40 N.m).
- Slowly fill up the circuit with coolant (◁ LUBRICANTS AND FUEL) up to the middle of gauge 4 through filler hole 5.
- Refit the filler plug 3.
- Run the engine at idle for a few minutes.
- Check for any possible leaks.
- Check the level and refill if necessary.



647562 (04/04/2024)
M ... P ST3B S4 EU

REPLACE M ..-2 / M ..-4 Gear box oil

CLEAN M ..-2 / M ..-4 Gear box sump strainer

⚠ IMPORTANT ⚠

Dispose of the drain oil in an ecological manner.

- Place the lift truck on level ground with the engine stopped and the gear box oil still warm.
- Place a container under drain plug 1 and under the electric plate 2.

DRAINING THE OIL

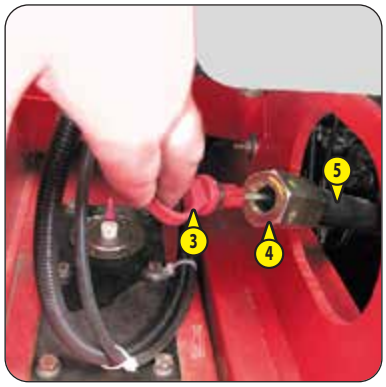
- Unscrew the drain plug 1.
- Remove dipstick 3 and unscrew filling plug 4 in order to ensure that the oil is drained properly.

CLEANING THE STRAINER

- Remove cover 2 and set aside the O-ring joint and sealing washer.
- Allow the rest of the oil to drain away.
- Remove and clean the strainer using a compressed air jet.
- Clean the magnetic section on the plate.
- Refit the assembly and tighten the electric plate 2 (tightening torque 18 - 31 N.m).

FILLING WITH OIL

- Refit and tighten the drain plug 1 (tightening torque34 - 54 N.m).
- Fill up with oil (◅ LUBRICANTS AND FUEL) through the filler hole 5 and refit the plug 4.
- With the I.C. engine idling, check the correct level at the upper mark on the dipstick 3.
- Check any possible leaks from the drain plug or cover.
- Top up the level if necessary.



REPLACE Wheel reducer oil

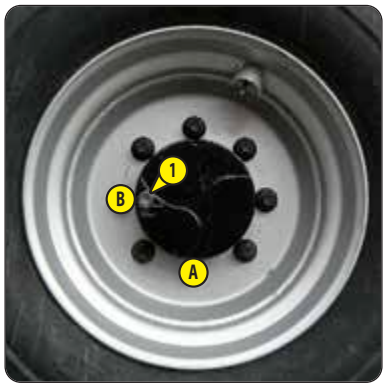
FRONT WHEEL REDUCERS

REAR WHEEL REDUCERS M .. -4

⚠ IMPORTANT ⚠

Dispose of the drain oil in an ecological manner.

- Place the lift truck on level ground with the engine stopped and the reducers' oil still warm.
- Drain the oil of each wheel reduction gear.
- Place drain plug 1 in position A.
- Place a container under the drain plug and unscrew the plug.
- Let the oil drain fully.
- Place the drain plug in position B, i.e. in a level port.
- Fill up with oil (◅ LUBRICANTS AND FUEL) through level hole 1.
- The level is correct when the oil level is flush with the edge of the hole.
- Refit and tighten the drain plug (tightening torque 34 à 49 N.m).



⚠ IMPORTANT ⚠

Dispose of the drain oil in an ecological manner.

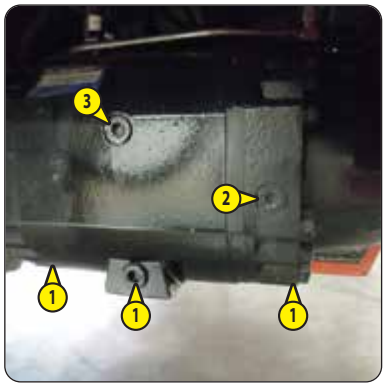
- Place the lift truck on level ground with the engine stopped and the differential oil still warm.

M ..-2 / M ..-4

- Place a container under drain plugs 1 and unscrew them.
- Remove the filler plug 2 to ensure that the oil is drained properly.
- Refit and tighten the drain plugs 1 (tightening torque34 - 49 N.m).
- Fill up with oil (⧏ LUBRICANTS AND FUEL) through filler hole 2.
- The level is correct when the oil level is flush with the filler hole 2.
- Check for any possible leaks at the drain plugs.
- Refit and tighten the filler plug 2 (tightening torque 34 - 49 N.m).

M ..-2H

- Place a container under drain plugs 1 and unscrew them.
- Remove level plug 2 and filling plug 3 to ensure that the oil is drained properly.
- Refit and tighten the drain plugs 1 (tightening torque34 - 49 N.m).
- Fill up with oil (⧏ LUBRICANTS AND FUEL) through filler hole 3.
- The level is correct when the oil level is flush with the edge of opening 2.
- Check for any possible leaks at the drain plugs.
- Refit and tighten level plug 2 (tightening torque 34 - 49 N.m) and filler plug 3 (tightening torque 34 - 49 N.m).

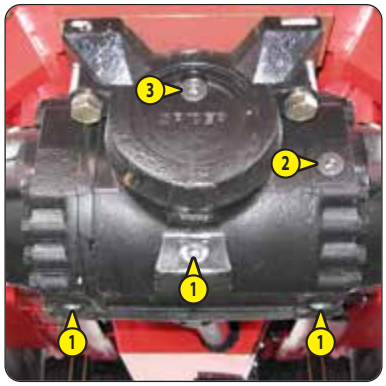


REPLACE M ..-4 Rear axle differential oil

⚠ IMPORTANT ⚠

Dispose of the drain oil in an ecological manner.

- Place the lift truck on level ground with the engine stopped and the differential oil still warm.
- Place a container under drain plugs 1 and unscrew them.
- Remove level plug 2 and filling plug 3 to ensure that the oil is drained properly.
- Refit and tighten the drain plugs 1 (tightening torque34 - 49 N.m).
- Fill up with oil (⧏ LUBRICANTS AND FUEL) through filler hole 3.
- The level is correct when the oil level is flush with the edge of opening 2.
- Check for any possible leaks at the drain plugs.
- Refit and tighten level plug 2 (tightening torque 34 - 49 N.m) and filler plug 3 (tightening torque 34 - 49 N.m).



CHECK	Engine silent blocks *
CHECK	Engine speeds *
CHECK	Engine valve clearances *
CHECK	Condition of wheels and tyres *
CHECK	Condition of boom assembly *
CHECK	Condition of hoses and flexible pipes *
CHECK	Condition of cylinders (leakage, rods) *
CHECK	Condition of wiring harnesses and cables *
CHECK	Lights and signals *
CHECK	Warning indicators *
CHECK	Condition of the rear-view mirrors *
CHECK	Cabin structure *
CHECK	Frame structure *
CHECK	Attachment carriage *
CHECK	Condition of attachments *
CLEAN	Hydraulic pump tubular filter *
REPLACE	Brake fluid *
BLEED	Brake circuit *
CHECK	Brake system pressure *
ADJUST	Brake *

* Consult your dealer.

647562 (04/04/2024)
M ... P ST3B S4 EU

➲ ❸ 2000H - PERIODIC SERVICE - EVERY 2,000 HOURS OF SERVICE OR 4 YEARS

ALSO PERFORM THE 500 HOUR AND 1000 HOUR PERIODIC SERVICE OPERATIONS.

CHECK — Wheel nut tightening torques

- Check the condition of the tyres, to detect cuts, blisters, wear, etc.
- Check the tightening torque of the wheel nuts with a torque wrench:
  - Front wheels = 630 N.m ± 94 N.m
  - Rear wheels = 340 N.m ± 51 N.m

REPLACE — Hydraulic oil

CLEAN — Hydraulic oil tank suction strainer

REPLACE — Breather for the hydraulic oil tank

⚠ IMPORTANT ⚠

Dispose of the drain oil in an ecological manner.

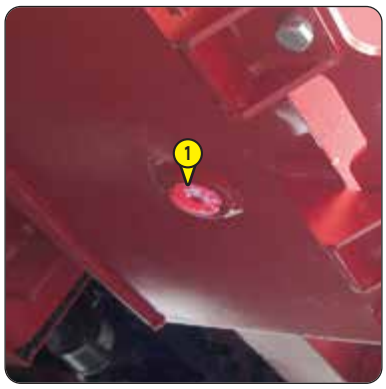
Before any intervention, thoroughly clean the area surrounding the drain plug and the return oil filter plate on the hydraulic tank.

- Place the lift truck on level ground with the engine stopped, the mast tilted backwards and lowered as far as possible.
- Open the engine cover.

M ..-2 / M ..-4

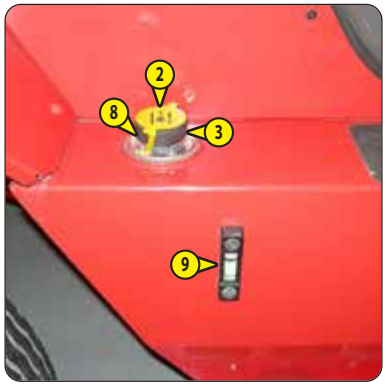
DRAINING THE OIL

- Place a container under drain plug 1 and unscrew it.
- Remove the filler cap lock 2.
- Remove the filler plug 3 to ensure that the oil is drained properly.



CLEANING THE STRAINER

- Remove the side panel 4.
- Disconnect the hoses 5 (according to the model).
- Remove the inspection panel 6.
- Undo the suction strainer in the bottom of the tank.
- Clean the strainer with a compressed air jet.
- Check its condition and replace if necessary (◅ FILTER CARTRIDGES AND BELTS).
- Refit the strainer and the access panel 6.
- Reconnect the hoses 5 (according to the model).



REPLACING THE BREATHER

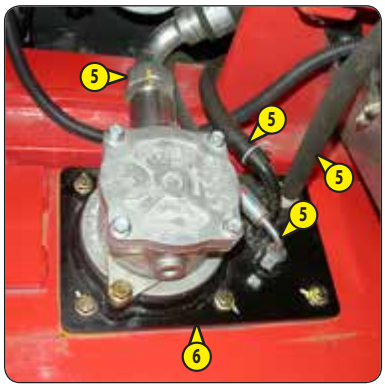
- Unscrew the breather 7 and replace it with a new one (◅ FILTER ELEMENTS AND BELTS).
- Refit the side panel 4.

FILLING WITH OIL

- Clean and refit the drain plugs 1 (tightening torque 29 - 39 N.m).
- Fill up with oil (◅ LUBRICANTS AND FUEL) through filler hole 8.

⚠ IMPORTANT ⚠

Use a clean funnel and clean the underside of the oil drum before filling.



647562 (04/04/2024)
M ... P ST3B S4 EU

- Check oil level on dipstick 9. The level is correct when it is between the two marks.
- Visually check that the drain plug is not leaking.
- Refit the filler cap 3 and its lock 2.

HYDRAULIC CIRCUIT DECONTAMINATION

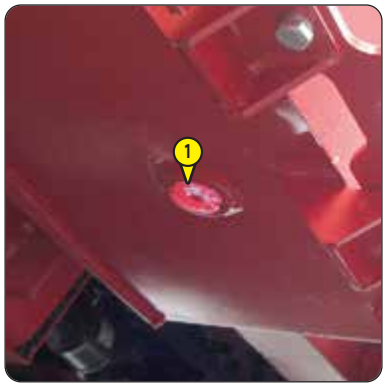
This operation makes a pollution abatement of the circuit possible through the hydraulic return oil filter.

- Let the engine run (accelerator pedal at halfway travel) for 5 minutes without using anything on the lift truck.
- Then, for 5 more minutes, use all of the hydraulic movements (except steering).
- Accelerate the engine at full speed for 1 minute, then activate the steering system.

M ..-2H

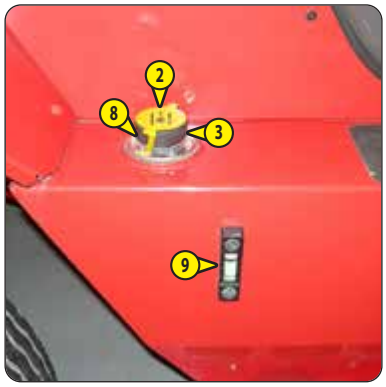
DRAINING THE OIL

- Place a container under drain plug 1 and unscrew it.
- Remove the filler cap lock 2.
- Remove the filler plug 3 to ensure that the oil is drained properly.



CLEANING THE STRAINER

- Remove the side panel 4.
- Disconnect the hoses 5 (according to the model).
- Remove the inspection panel 6.
- Undo the suction strainer in the bottom of the tank.
- Clean the strainer with a compressed air jet.
- Check its condition and replace if necessary (◅ FILTER CARTRIDGES AND BELTS).
- Refit the strainer and the access panel 6.
- Reconnect the hoses 5 (according to the model).



REPLACING THE BREATHER

- Unscrew the breather 7 and replace it with a new one (◅ FILTER ELEMENTS AND BELTS).
- Refit the side panel 4.

FILLING WITH OIL

- Clean and refit the drain plugs 1 (tightening torque29 - 39 N.m).
- Fill up with oil (◅ LUBRICANTS AND FUEL) through filler hole 8.

⚠ IMPORTANT ⚠

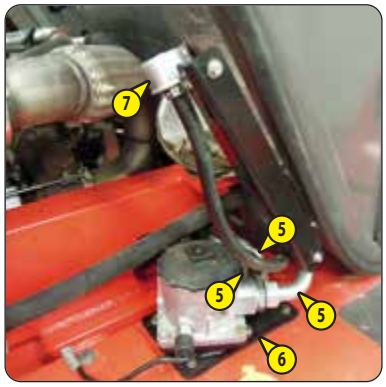
Use a clean funnel and clean the underside of the oil drum before filling.

- Check oil level on dipstick 9. The level is correct when it is between the two marks.
- Visually check that the drain plug is not leaking.
- Refit the filler cap 3 and its lock 2.

HYDRAULIC CIRCUIT DECONTAMINATION

This operation makes a pollution abatement of the circuit possible through the hydraulic return oil filter.

- Let the engine run (accelerator pedal at halfway travel) for 5 minutes without using anything on the lift truck.
- Then, for 5 more minutes, use all of the hydraulic movements (except steering).
- Accelerate the engine at full speed for 1 minute, then activate the steering system.



647562 (04/04/2024)
M ... P ST3B S4 EU

CHECK — *Radiator **

CHECK — *Water pump and thermostat **

CHECK — *Alternator and starter **

CHECK — *Turbocharger **

CHECK — *Hydrostatic transmission circuit pressures **

CHECK — *Hydrostatic transmission control flow **

CHECK — *Brake pad and brake disk wear **

CHECK — *Mast lifting chain pulleys **

CHECK — *Mast guide rollers **

CHECK — *Hydraulic circuit pressures **

CHECK — *Steering **

CHECK — *Bearings and bushings **

CLEAN — *Air conditioning (OPTION) **

CLEANING CONDENSER AND EVAPORATOR COILS

CLEANING CONDENSATE TRAY AND RELIEF VALVE

COLLECTING COOLANT TO REPLACE DRIER FILTER

REFILLING WITH COOLANT AND CHECKING THE THERMOSTATIC CONTROL AND PRESSURE SWITCHES

NOTE: When opening the evaporator unit, remember to replace the cover seal.

⚠ IMPORTANT ⚠

DO NOT ATTEMPT TO REPAIR ANY PROBLEMS YOURSELF. ALWAYS REFER TO YOUR DEALER WHEN REFILLING CIRCUITS, AS THEY HOLD THE CORRECT SPARE PARTS, AS WELL AS HAVING THE NECESSARY TECHNICAL KNOWLEDGE AND TOOLS.

In any of the following circumstances, call a doctor.

If inhaled, take the victim to fresh air.
If there is contact with the skin, wash immediately with plenty of water .
If there is frostbite, apply a sterile dressing.
If there is contact with the eyes, rinse with clear water for 15 minutes.

IMPORTANT INFORMATION REGARDING THE COOLANT USED

- This product contains fluorinated greenhouse gases covered by the Kyoto Protocol.
- Coolant type: R134A; it is colourless and odourless and heavier than air. Its GWP (Global Warming Potential) is 1430.
- Do not allow the gases to escape into the atmosphere. Do not open the circuit under any circumstances, as this could cause refrigerant to escape.

- The compressor has a fluid level gauge; never unscrew this gauge because it would depressurise the system. The fluid level should only be checked when draining the system.

CLEAN/CHECK — **Hydraulic oil tank and strainer ***

LUBRICATE — **Rear axle oscillation ***

*** Consult your dealer.**

➲❹ 3000H - PERIODIC SERVICE - EVERY 3000 HOURS OF SERVICE OR 6 YEARS

ALSO PERFORM THE 500 HOUR AND 1000 HOUR PERIODIC MAINTENANCE OPERATIONS.

REPLACE — **Alternator belt**

REPLACE — **Compressor belt (air conditioning option)**

*** Consult your dealer.**

➲ 5 4000H - PERIODIC SERVICE - EVERY 4000 HOURS OF SERVICE OR 8 YEARS

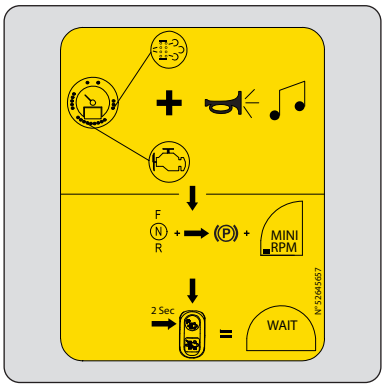
ALSO PERFORM THE 500 HOUR, 1,000 HOUR AND 2,000 HOUR PERIODIC SERVICE OPERATIONS.

CHECK		Steering swivel joints *
CHECK		Front axle brake disc wear *
CHECK		Front wheel reduction gear clearance*
CHECK	M .. -2	Rear axle *
CHECK	M .. -4	Rear wheel reducer pivots
CHECK	M .. -4	Rear wheel reducer universal joint
CHECK	M .. -4	Rear wheel reducer clearance*
CHECK		Mast bearing rollers *

* Consult your dealer.

647562 (04/04/2024)
M ... P ST3B S4 EU

CLEAN "Stationary lift truck" exhaust particle filter



⚠ IMPORTANT ⚠

Exhaust particle filter cleaning is an automated procedure activated by the operator when the following indicator lamps are displayed:

+

- Park the lift truck in a safe and adequately ventilated place.
- Check the following points:
  - forward/reverse selector in neutral,
  - parking brake applied,
  - Fork placed on the ground,
  - engine water temperature greater than 70 °C,
  - accelerator pedal released,
  - high exhaust gas temperature indicator lamp off.
- Check that there is sufficient fuel.
- Start the lift truck and run the engine for a few minutes to bring it up to its operating temperature.
- Press down on the top of switch 1 for more than two seconds to begin the regeneration procedure.

- The indicator lamps + go off. Lighting of the indicator lamp plus a sound alarm validate the beginning of the procedure for regenerating the "stationary lift truck" exhaust particle filter. In the opposite case the indicator lamps + light again, accompanied by a sound alarm. Recheck the positioning of the lift truck and if necessary consult your dealer.
- The engine runs at 2000 rpm during the procedure.

⚠ IMPORTANT ⚠

The exhaust particle filter regeneration procedure must only be stopped if absolutely necessary.
The procedure stops automatically if the operator:
- press on accelerator pedal
- or engage forward or reverse gear
- or release the parking brake.

- The time taken for exhaust particle filter regeneration to complete varies (between 15 and 30 minutes) according to various criteria, such as:
  - the level of clogging of the filter,
  - the ambient temperature,
  - the fuel quality and type of engine oil,
  - the number of exhaust particle filter automatic regeneration requests previously cancelled.
- The engine will return to its normal running speed to indicate that the procedure has finished.

⚠ IMPORTANT ⚠

Once the exhaust particle filter regeneration procedure is completed, leave the engine idling for a few minutes to lower the temperature before switching off the ignition.

647562 (04/04/2024)
M... P ST3B S4 EU

⚠ IMPORTANT ⚠

In the event of a wheel being changed on the public highway, secure the lift truck vicinity:

- If possible, stop the lift truck on firm, level ground (◁ OPERATING INSTRUCTIONS UNLADEN AND LADEN).
- Switch on the hazard warning lights.
- Immobilise the lift truck in both directions on the axle opposite to the wheel to be changed.
- Unlock the nuts of the wheel to be changed until they can be removed effortlessly.

REAR WHEEL

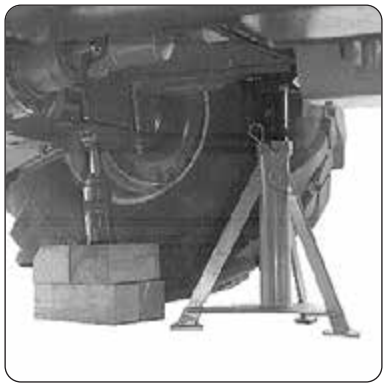
For this operation, we advise you to use the hydraulic jack MANITOU Part number 505507.

- Place and adjust the jack under the rear axle, as near as possible to the wheel.
- Lift the wheel until it leaves the ground.
- Place a safety wedge under the axle.
- Loosen the wheel nuts and remove them completely.
- Free the wheel by reciprocating movements and roll it to the side.
- Place the new wheel on the wheel hub.
- Hand-tighten the nuts, grease them if necessary.
- Remove the safety wedge.
- Lower the lift truck using the jack.
- Tighten the wheel nuts to the torque using a torque wrench (◁ EVERY 2,000 HOURS OF SERVICE OR 4 YEARS).

FRONT WHEEL

For this operation, we advise you to use the MANITOU hydraulic jack Part No. 505507 and the MANITOU safety support prop Part No. 554772.

- Place and adjust the jack under the flared axle tube, as near as possible to the wheel.
- Lift the wheel until it leaves the ground.
- Place the safety prop under the chassis.
- Loosen the wheel nuts and remove them completely.
- Free the wheel by reciprocating movements and roll it to the side.
- Place the new wheel on the wheel hub.
- Hand-tighten the nuts, grease them if necessary.
- Remove the safety prop.
- Lower the lift truck using the jack.
- Tighten the wheel nuts to the torque using a torque wrench (◁ EVERY 2,000 HOURS OF SERVICE OR 4 YEARS).



REPLACE *Battery*

⚠ IMPORTANT ⚠

Operate the battery cut-off a minimum of 30 seconds after having switched off the ignition with the ignition key.
Handling and servicing a battery can be dangerous, take the following precautions:
- Wear protective goggles.
- Keep the battery horizontal.
- Never smoke or work near a naked flame.
- Work in a well-ventilated area.
- In the event of electrolyte being spilled onto the skin or splashed in the eyes, rinse thoroughly with cold water for 15 minutes and call a doctor.

PROCEDURE WITH BATTERY REPLACEMENT

- Remove the intake grille 1 to access the battery.
- Loosen the fastenings of the battery 2.
- Change the battery 3.

PROCEDURE WITH BACKUP BATTERY

- Remove the intake grille 1 to access the battery.
- Bring a back-up battery of the same type as the one used for the lift truck, together with battery cables.
- Connect the backup battery, respecting the polarity (-) and (+).
- Start the lift truck and remove the cables as soon as the engine is running.

BLEED *Fuel supply circuit*

These operations are to be carried out only in the following cases:

- A component of the fuel system replaced.
- A drained tank.
- Running out of fuel.

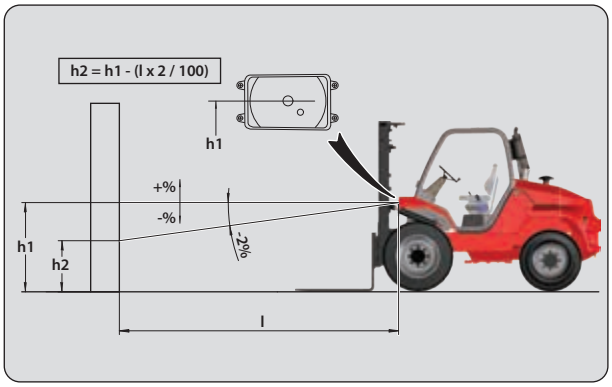
⚠ IMPORTANT ⚠

Any contact with fuel under high pressure may penetrate the skin and cause burns.
Spraying fuel under high pressure can cause a fire.
Failure to follow the inspection and maintenance instructions may result in serious injury.
Never work on the high pressure system.
Failure to follow this instruction may result in serious damage to the engine.
The high pressure fuel system must be adjusted and repaired only by approved and suitably trained technicians.

Ensure that the level of fuel in the tank is sufficient and bleed in the following order:

- Open the engine cover.
- Check the condition of the fuel system.
- Operate the hand pump 1 approximately 80 times to remove air from the low pressure system.
- The engine is now ready to be started.
- Run the engine at idle for 5 minutes immediately after bleeding the fuel feed circuit, in order to ensure that the injection pump has been bled thoroughly.

NOTE: If the engine runs correctly for a short time then stops or runs erratically, check for possible leaks in the low pressure circuit. If in doubt, contact your dealer.



RECOMMENDED SETTING

(in accordance with the standard ECE-76/756 76/761 ECE20)

Adjustment of -2 % of the dipped beam harness relative to the horizontal axis of the headlight.

ADJUSTMENT PROCEDURE

- Put the lift truck:
  - in transport position.
  - unladen.
  - perpendicular to a white wall on flat, horizontal ground.
- Check the tyre pressures (◁ TYRES).
- Place the forward/reverse selector in neutral.

CALCULATING THE HEIGHT OF THE DIPPED BEAM (H2)

- h1 =Height of the dipped beam in relation to the ground.
- h2 =Adjusted harness height.
- l =Distance between dipped beam and the white wall.

M ..-2 / M ..-4

⚠ IMPORTANT ⚠

Do not tow the lift truck at more than 25 km/h.

- Put the forward/reverse lever and the gear shift in neutral (as per the model of the lift truck).
- Release the hand brake.
- Switch on the hazard warning lights.
- Since there will be no steering or braking hydraulic assistance, operate the steering and pedal slowly, avoiding sudden or jerky movements.

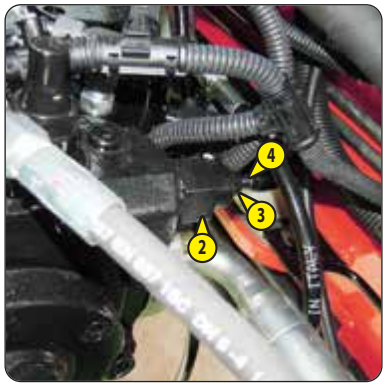
M ..-2 H

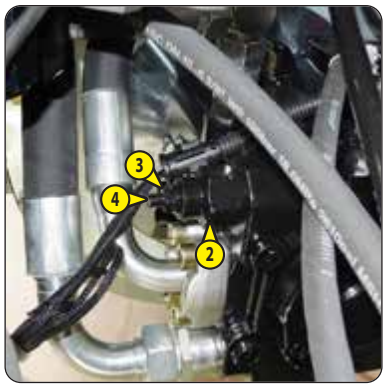
⚠ IMPORTANT ⚠

The lift truck must be towed very slowly (less than 5 km/h) and for as short a distance as possible (less than 100 m).
Before towing, the high pressure limiters 2 must be unlocked to avoid damaging the hydrostatic transmission.

- Remove the inspection panel 1.
- Loosen lock nut 3.
- Loosen the HC 4 screws by three turns.
- Switch on the hazard warning lights.
- Release the hand brake.
- Tow the lift truck.

NOTE: After towing, proceed in the reverse order to lock the high pressure limiters.



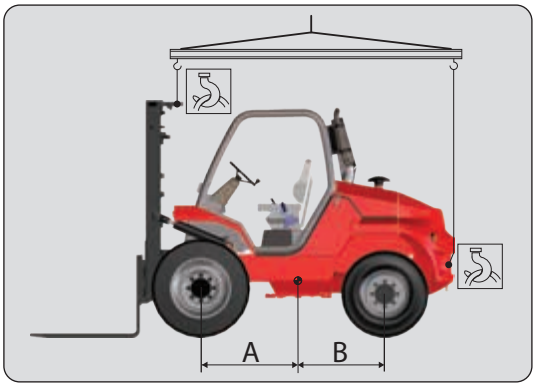


SLING — Lift truck

- Take into account the position of the lift truck centre of gravity for lifting.

A = 1027 mm	B = 968 mm	M 26-2 P ST3B S4 EU
A = 1027 mm	B = 968 mm	M 26-2H P ST3B S4 EU
A = 1138 mm	B = 857 mm	M 26-4 P ST3B S4 EU
A = 1202 mm	B = 793 mm	M 30-2 P ST3B S4 EU
A = 1202 mm	B = 793 mm	M 30-2H P ST3B S4 EU
A = 1211 mm	B = 784 mm	M 30-4 P ST3B S4 EU
A = 1278 mm	B = 782 mm	M 40-2 P ST3B S4 EU
A = 1278 mm	B = 782 mm	M 40-2H P ST3B S4 EU
A = 1321 mm	B = 799 mm	M 40-4 P ST3B S4 EU
A = 1242 mm	B = 818 mm	M 50-2 P ST3B S4 EU
A = 1242 mm	B = 818 mm	M 50-2H P ST3B S4 EU
A = 1283 mm	B = 837 mm	M 50-4 P ST3B S4 EU

- Place the hooks in the anchorage points 1 provided.



⚠ IMPORTANT ⚠

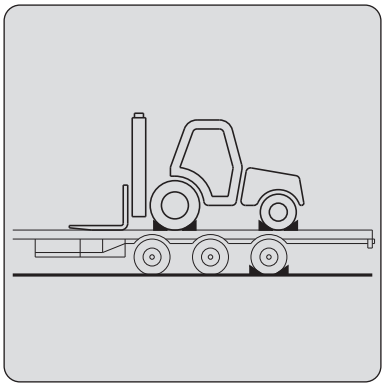
Ensure that the safety instructions associated with the flatbed are complied with before loading the lift truck and that the driver of the carrier vehicle is informed of the dimensions and the weight of the lift truck (◁ DESCRIPTION: CHARACTERISTICS).

Ensure that the platform is of sufficient size and load capacity for transporting the lift truck.

Check also the allowable ground contact pressure of the platform relative to the lift truck.

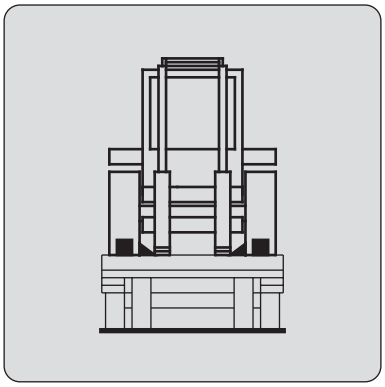
⚠ IMPORTANT ⚠

For lift trucks equipped with a turbo-charged engine, block off the exhaust outlet to avoid rotation of the turbo shaft without lubrication when transporting the vehicle.



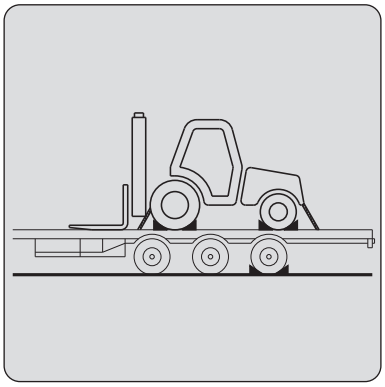
LOADING THE LIFT TRUCK

- Block the wheels of the platform.
- Attach the loading ramps to the platform in such a way as to give the shallowest possible ramp angle for the lift truck.
- Load the lift truck parallel to the platform.
- Stop the lift truck (◁ OPERATING INSTRUCTIONS UNLADEN AND LADEN).



STOWING THE LIFT TRUCK

- Fix the chocks to the platform at the front and at the back of each tyre.
- Also fix the chocks to the platform on the inside of each tyre.
- Secure the lift truck to the platform with sufficiently strong ropes:
  - At the front, 2 anchorage points on the foot of the mast 1.
  - At the rear, 2 anchorage points under the wheel arch 2.
- Tighten the ropes.



647562 (04/04/2024)
M ... P ST3B S4 EU

4 - OPTIONAL ADAPTABLE ATTACHMENTS FOR THE RANGE

4 - OPTIONAL ADAPTABLE ATTACHMENTS FOR THE RANGE

INTRODUCTION

- Your lift truck must be used with interchangeable equipment. These items are called: ATTACHMENTS.
- A wide range of attachments is available, guaranteed by MANITOU and designed to fit your lift truck perfectly.

⚠ IMPORTANT ⚠

Only attachments approved by MANITOU can be used on our lift trucks
(see: 4 - OPTIONAL ADAPTABLE ATTACHMENTS FOR THE RANGE: TECHNICAL SPECIFICATIONS OF ATTACHMENTS).
The manufacturer shall not be liable for any modification or adaptation of an attachment made without its knowledge.

- The attachments are delivered with a load chart concerning your lift truck. The operator's manual and the load chart should be kept in the places provided in the lift truck. For standard attachments, their use is governed by the instructions contained on this notice.

⚠ IMPORTANT ⚠

Maximum loads are defined by the capacity of a lift truck taking account of the attachment's mass and centre of gravity.
In the event of the attachment having less capacity than the lift truck, never exceed this limit.

- Some particular uses require the adaptation of the attachment which is not provided in the price-listed options. Optional solutions exist, consult your dealer.

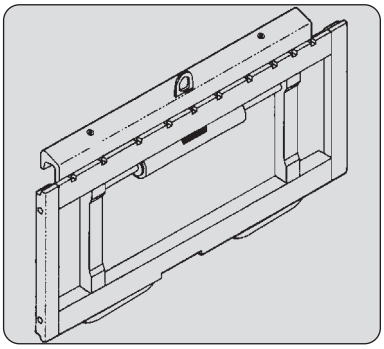
SUSPENDED LOAD

⚠ IMPORTANT ⚠

Suspended loads MUST be handled with a lift truck designed for that purpose

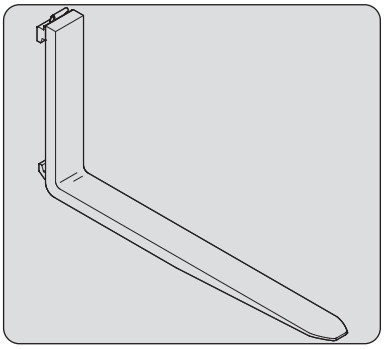
STANDARDISED SIDE-SHIFT CARRIAGE

* : Double Mast With All-Round Vision
** : Double mast with free-acting lift
** : Triple mast with free-acting lift
** : Triple mast without free-acting lift



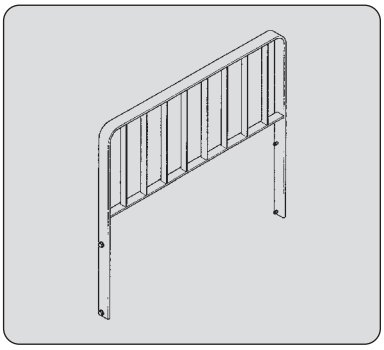
	TDL 100F-SSS-B551 - 1470	TDL 100F-SSS-B695 - 1750	TDL 100F-SSS-B514 - 2000
PART No.	**570218***	**570073***	**570074***
	570166**	**570167****	**570168****
	570169***	**570170*****	**570171*****
	570163****	**570164******	**570165******
Rated capacity	3000 kg	3000 kg	3000 kg
Side-shift	2 x 100 mm	2 x 100 mm	2 x 100 mm
Width	1470 mm	1750 mm	2000 mm
Weight	167 kg	206 kg	234 kg

STANDARDISED FORK



	PART NO.	415727	415729
Section		125 x 40 x 1200 mm	125 x 45 x 1200 mm
Weight		74 kg	79 kg

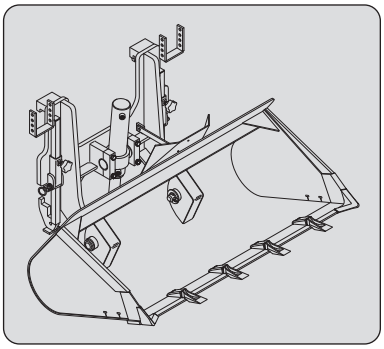
LOAD BACK REST



	PART No.	555325	570113	570114
Width		1,470 mm	1750 mm	2000 mm
Weight		41 kg	46 kg	51 kg

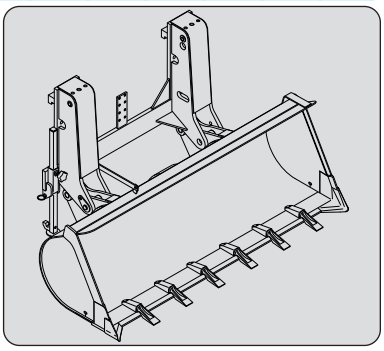
DIGGING BUCKET

	SP 500 30N AD S3	SP 500 30NL AD S3
PART No.	**741444**	**741446**
Rated capacity	500 L/900 kg	500 L/900 kg
Width	1,648 mm	2022 mm
Teeth	4	6
Weight	420 kg	450 kg



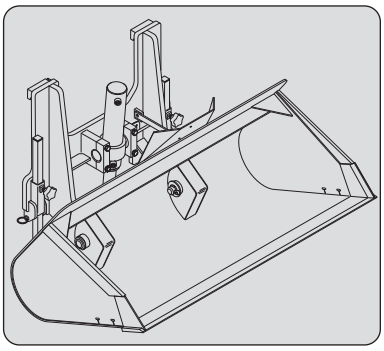
DIGGING BUCKET

	SP 700 40N AD S2	SP 1000 40NL AD S2
PART No.	**751454**	**751459**
Rated capacity	700 L/1260 kg	1000 L/1800 kg
Width	2110 mm	2210 mm
Teeth	6	6
Weight	630 kg	715 kg



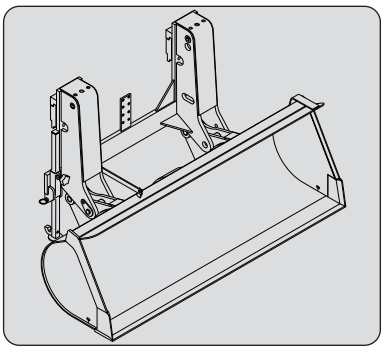
LOADING BUCKET

	SP 500 30N SD	SP 500 30NL SD
PART No.	**570278**	**570280**
Rated capacity	500 L/900 kg	500 L/900 kg
Width	1,648 mm	2022 mm
Weight	420 kg	450 kg



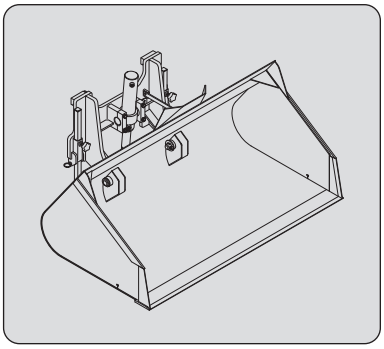
LOADING BUCKET

	SP 700 40N SD	SP 700 40NL SD
PART No.	**751452**	**751456**
Rated capacity	700 L/1200 kg	1000 L/1800 kg
Width	2100 mm	2200 mm
Weight	605 kg	690 kg



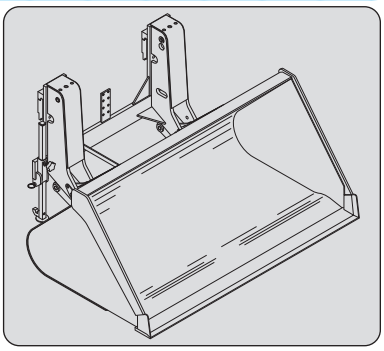
ARGICULTURAL BUCKET

	BA 1000 S2 30N	BA 1500 S2 30N	BA 2000 S2 30N
PART No.	**751466**	**751467**	**751468**
Rated capacity	1000 L/1200 kg	1500 L/1800 kg	2000 L/2000 kg
Width	2022 mm	2,022 mm	2,022 mm
Weight	480 kg	610 kg	700 kg



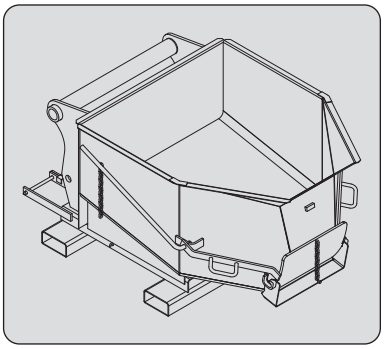
CEREAL AND FERTILIZER BUCKET

	BCE 1500 40N	BCE 2000 40N
PART No.	**751469**	**751471**
Rated capacity	2000 L/2400 kg	2000 L/2400 kg
Width	2,100 mm	2100 mm
Weight	775 kg	870 kg



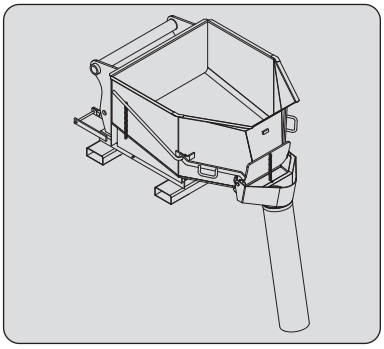
CONCRETE BUCKET (ADAPTABLE ON FORKS)

	BB 500 S4
PART No.	**654409**
Rated capacity	500 l/1300 kg
Width	1100 mm
Weight	205 kg



CONCRETE BUCKET WITH SPOUT (ADAPTABLE ON FORKS)

	BBG 500 S4
PART No.	**654411**
Rated capacity	500 l/1300 kg
Width	1100 mm
Weight	220 kg

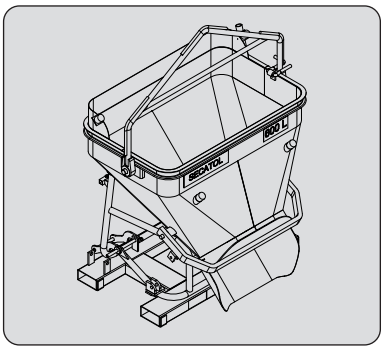


SPOUT BUCKET (ADAPTABLE ON FORKS)

	GL 300 S2	GL 400 S2
PART No.	**174371**	**174372**
Rated capacity	300 l/725 kg	400 l/969 kg
Weight	150 kg	166 kg

HYDRAULIC KIT TO OPEN THE SPOUT

PART NO.	**653750**

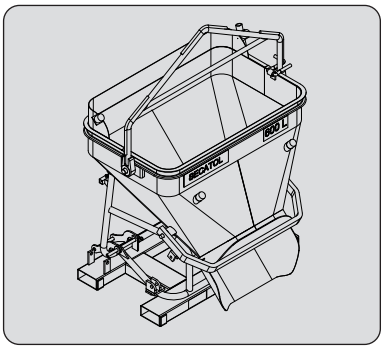


SPOUT BUCKET (ADAPTABLE ON FORKS)

	GL 600 S2	GL 800 S2
PART No.	**174373**	**174374**
Rated capacity	600 l/1440 kg	800 l/1920 kg
Weight	290 kg	325 kg

HYDRAULIC KIT TO OPEN THE SPOUT

PART No.	**653750**

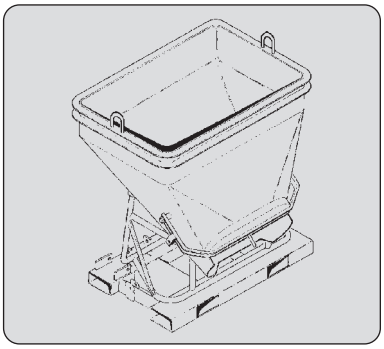


SPOUT BUCKET (ADAPTABLE ON FORKS)

	GL 1000 S2	GL 1500 S2
PART No.	**174375**	**174376**
Rated capacity	1000 l/2440 kg	1500 l/3591 kg
Weight	360 kg	409 kg

HYDRAULIC KIT TO OPEN THE SPOUT

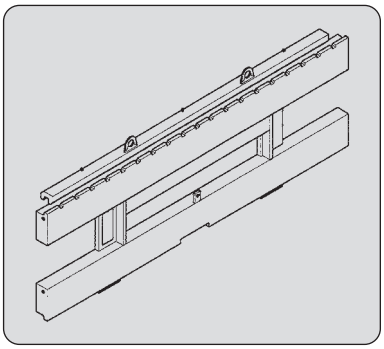
PART No.	**653750**



STANDARDISED SIDE-SHIFT CARRIAGE

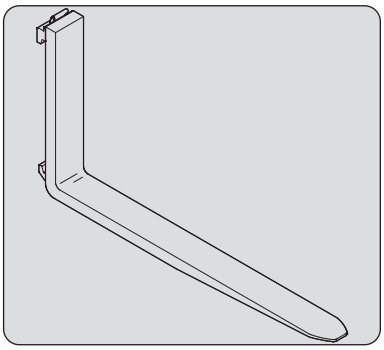
* : Double Mast With All-Round Vision
** : Double mast with free-acting lift

	TDL A 50N L1670	TDL A 50N L2000
PART No.	**752187*** **572070****	**752188*** **572072****
Rated capacity	4500 kg	3000 kg
Side-shift	2 x 100 mm	2 x 100 mm
Width	1670 mm	2000 mm
Weight	360 kg	206 kg



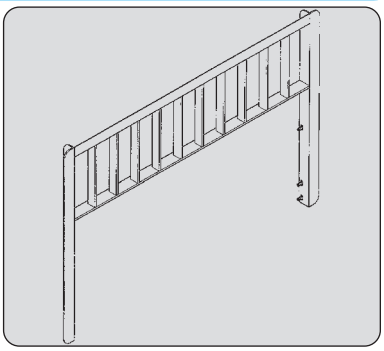
STANDARDISED FORK

PART No.	**415499**	**415746**
Section	150 x 60 x 1,200 mm	125 x 40 x 1,200 mm
Weight	138 kg	70 kg



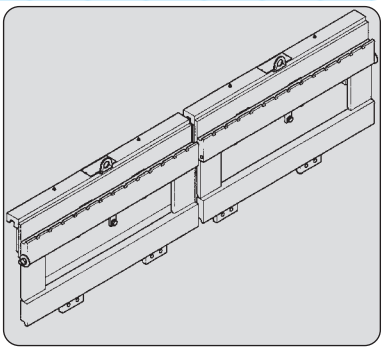
LOAD BACK REST

PART No.	**572788**	**572790**
Width	1670 mm	2000 mm
Weight	56 kg	63 kg



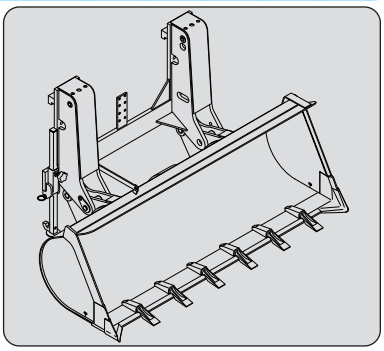
STANDARD DOUBLE SIDE-SHIFT CARRIAGE

	DOUBLE TDLA 50N
PART No.	**572404**
Rated capacity	2 x 2500 kg
Side shift	2 x 150/100 mm
Width	2 x 985 mm
Weight	2 x 165 kg



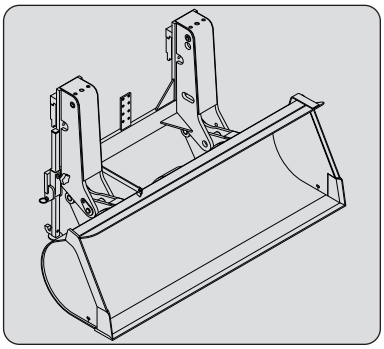
DIGGING BUCKET

	SP 700 50N AD S2	SP 1000 50NL AD S2
PART No.	**751455**	**751460**
Rated capacity	700 L/1260 kg	1000 L/1800 kg
Width	2110 mm	2210 mm
Teeth	6	6
Weight	605 kg	690 kg



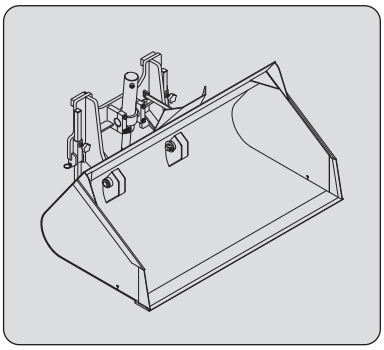
LOADING BUCKET

	SP 700 50N SD	SP 1000 50N SD
PART No.	**751453**	**751457**
Rated capacity	700 L/1260 kg	1000 L/1800 kg
Width	2,100 mm	2200 mm
Weight	5800 kg	665 kg



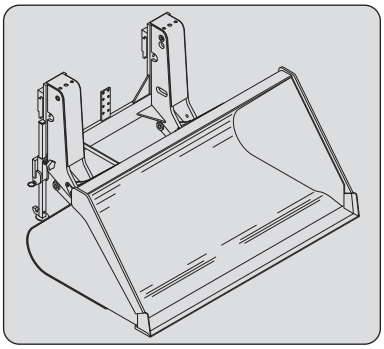
ARGICULTURAL BUCKET

	BA 1000 S2 30N	BA 1500 S2 30N	BA 2000 S2 30N
PART No.	**751466**	**751467**	**751468**
Rated capacity	1000 L/1200 kg	1500 L/1800 kg	2000 L/2000 kg
Width	2022 mm	2,022 mm	2,022 mm
Weight	480 kg	610 kg	700 kg



CEREAL AND FERTILIZER BUCKET

	BCE 1500 50N	BCE 2000 50N	BCE 2500 50N
PART No.	**751470**	**751472**	**751474**
Rated capacity	1500 L/1800 kg	2000 L/2400 kg	2500 L/3000 kg
Width	2,100 mm	2,100 mm	2,100 mm
Weight	750 kg	845 kg	925 kg

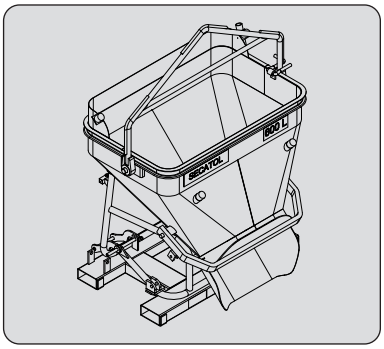


SPOUT BUCKET (ADAPTABLE ON FORKS)

	GL 600 S2	GL 800 S2
PART No.	**174373**	**174374**
Rated capacity	600 l/1440 kg	800 l/1920 kg
Weight	290 kg	325 kg

HYDRAULIC KIT TO OPEN THE SPOUT

PART No.	**653750**

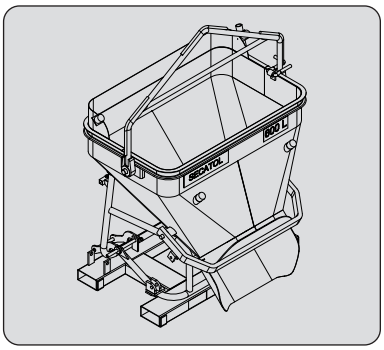


SPOUT BUCKET (ADAPTABLE ON FORKS)

	GL 1000 S2	GL 1500 S2
PART No.	**174375**	**174376**
Rated capacity	1000 l/2200 kg	1500 l/3300 kg
Weight	325 kg	375 kg

HYDRAULIC KIT TO OPEN THE SPOUT

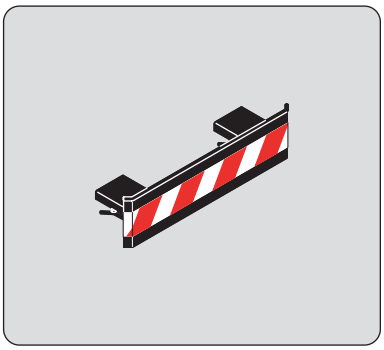
PART NO.	**653750**



ATTACHMENT GUARDS

FORK GUARD

PART No. **227801**



BUCKET PROTECTOR

Always ensure that the width of the protector you choose is less than or equal to the width of the bucket.

PART NO.	**206734**	**206732**	**206730**
Width	1,375 mm	1,500 mm	1,650 mm
PART NO.	**235854**	**206728**	**206726**
Width	1,850 mm	1,950 mm	2000 mm
PART NO.	**223771**	**223773**	**206724**
Width	2,050 mm	2,100 mm	2,150 mm
PART NO.	**206099**	**206722**	**223775**
Width	2,250 mm	2,450 mm	2,500 mm