MANITOU

HANDLING YOUR WORLD

647835 EN-USM3 (E-08/2024)

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M30-2 D ST5 S1 EU
M30-4 D ST5 S1 EU
M40-2 D ST5 S1 EU
M40-4 D ST5 S1 EU
M50-2 D ST5 S1 EU
M50-4 D ST5 S1 EU

OPERATOR'S MANUAL

(ORIGINAL MANUAL)

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.

CALIFORNIA PROPOSITION 65 WARNINGS

⚠ WARNING

This product can expose you to lead which is known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov

⚠ WARNING

Breathing diesel engine exhaust exposes you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

- Always start and operate the engine in a well-ventilated area.
- If in an enclosed area, vent the exhaust to the outside.
- Do not modify or tamper with the exhaust system.
- Do not idle the engine except as necessary.

For more information go to www.P65Warnings.ca.gov/diesel

SILICA DUST HAZARD

Exposure to crystalline silica (found in sand, soil and rocks) has been associated with silicosis, a debilitating and often fatal lung disease. Comply with all applicable rules and regulations for the workplace. Wear approved respiratory protection or use water spray or other means if there is no other way to control the dust.

A Silica rule "29 CFR 1929.1153" by the U.S. Occupational Safety and Health (OSHA) indicates a signicant risk of chronic silicosis for workers exposed to inhaled crystalline silica over a working lifetime. Refer to the rule for more information regarding exposure limits and hazard prevention.

647835M3 (E-08/2024)
M.. D ST5 S1 EU

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647835M3 (E-08/2024)
M.. D ST5 S1 EU

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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

647835M3 (E-08/2024)
M.. D ST5 S1 EU

647835M3 (E-08/2024)
M.. D ST5 S1 EU

1 - OPERATING AND SAFETY INSTRUCTIONS

647835M3 (E-08/2024)
M.. D ST5 S1 EU

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647835M3 (E-08/2024)
M.. D ST5 S1 EU

647835M3 (E-08/2024)
M.. D ST5 S1 EU

INSTRUCTIONS TO THE COMPANY MANAGER

THE SITE

- Proper management of the machine'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, authorized personnel can use the machine. This authorization is given in writing by the appropriate person in the establishment where the machine is to be used and must be carried permanently by the operator.

⚠ IMPORTANT ⚠

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

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

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

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

- For certain machines, the foreseeable behavior of such persons as: apprentices, teenagers, handicapped persons, trainees tempted to drive a machine, operators tempted to operate a 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 MACHINE

A - SUITABILITY OF THE MACHINE FOR THE TASK

- This machine is a lift truck designed for handling (moving, storing or transporting) a load.
- MANITOU has ensured that this machine 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 harmonized standard **ISO 3691-1** for masted forklift trucks.
- Before commissioning, the company manager must make sure that the machine is appropriate for the work to be done, and perform certain tests (in accordance with current legislation).

B - ADAPTING THE MACHINE TO USUAL ENVIRONMENTAL CONDITIONS

- In addition to the standard equipment mounted on your machine, 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 machine's signaling and lighting equipment. Consult your dealer.
- Take into account the climatic and atmospheric conditions of the site of utilization.
  - 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 (5 °F) and +35 °C (95 °F), correct levels of lubricants in all the circuits are checked in production.

For operation under more severe climatic conditions, before starting up, drain all circuits, then fill using lubricants suitable for the ambient temperatures.

The same applies to the coolant.

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

⚠ IMPORTANT ⚠

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

It is prohibited to use the machine in areas where there is a risk of fire or which are potentially explosive (e.g. refineries, fuel or gas depots, stores of inflammable products, etc.).

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

647835M3 (E-08/2024)
M.. D ST5 S1 EU

- Our machines comply with Directive 2004/108/EC concerning electromagnetic compatibility (EMC) (UK: Electromagnetic Compatibility Regulations 2016), and with the corresponding harmonized standard EN 12895. Their correct operation is no longer guaranteed if they are used within areas in which the electromagnetic fields exceed the limit specified by this standard (10 V/m).

⚠ IMPORTANT ⚠

After commissioning, any machine equipped with devices that are likely to emit non-ionizing radiation (e.g. radio transmitter, radiofrequency ID reader, data collection system, etc.) can cause injury, especially to people with active or inactive medical devices or implants.

- Directive 2002/44/EC requires company managers to not expose their employees to excessive vibration doses. There is no recognized 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 machine and attachment for the intended use.
  - Adapt the seat adjustment to the operator's weight (depending on machine model) and maintain it in good condition, as well as the cab suspensions. Inflate the tires 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 - MODIFYING THE MACHINE

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

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 machines on the public highway is subject to the provisions of the highway code relating to special machines, defined in Article R311-1 of the French Highway Code (*Code de la route*), in category B of the Equipment Order of 20 November 1969 that determines the procedures applicable to special machines. The machine must be fitted with an operating license plate.

INSTRUCTIONS

- The operator's manual must always be in good condition and kept in the place provided in the machine 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 machine must be periodically inspected to ensure its continued compliance.
The frequency of this inspection is defined by the legislation in force in the country in which the machine is used.

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

647835M3 (E-08/2024)
M.. D ST5 S1 EU

INSTRUCTIONS TO THE OPERATOR

FOREWORD

⚠ IMPORTANT ⚠

The risk of accident while using, servicing or repairing your machine can be reduced if you follow the safety instructions and preventive measures detailed in this manual.
Failure to respect the safety and operating instructions, or the instructions for repairing or servicing your machine, may lead to serious, even fatal accidents.
In order to reduce or prevent any danger with a MANITOU-approved attachment, follow the instructions in paragraph: 4 - ADAPTABLE ATTACHMENTS AVAILABLE 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 machine itself are not exhaustive.
- As the operator, you must anticipate at all times the potential risks for yourself, for others and for the machine.

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 machine.
- You must report any plates and stickers which are no longer legible or which are damaged.

B - AUTHORIZATION FOR USE IN FRANCE

(or see current legislation in other countries)

- Only qualified, authorized personnel can use the machine. This authorization is given in writing by the appropriate person in the establishment where the machine is to be used and must be carried permanently by the operator.
- The operator is not cleared to authorize the driving of the machine by another person.

C - MAINTENANCE

- If the operator observes that his machine is not in good working order or does not comply with the safety instructions must inform his manager of this immediately.
- The operator is prohibited from carrying out any repairs or adjustments himself, unless he has been trained for this purpose. He must keep his machine perfectly clean if he is responsible for this task.
- The operator must carry out daily and weekly maintenance (◅ 3 - MAINTENANCE).
- For the safety of the operator, maintenance must be carried out with the engine off and the ignition key removed.
- The operator must ensure tyres are appropriate for the type of ground (◅ 2 - DESCRIPTION). Optional solutions are available, please consult your dealer.
  - SAND tires.
  - FARM tires.
  - Snow chains.

⚠ IMPORTANT ⚠

Do not use the machine if the tires are damaged or excessively worn, because this could put your own safety or that of others at risk, or cause damage to the machine itself.
The fitting of foam inflated tires is prohibited and is not guaranteed by the manufacturer unless with prior authorization.

- The operator is responsible for 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 machine where these high-risk materials are likely to accumulate.

D - MODIFYING THE MACHINE

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

E - LIFTING PEOPLE

- It is forbidden to lift or carry people.

647835M3 (E-08/2024)
M.. D ST5 S1 EU

A - BEFORE STARTING UP THE MACHINE

- 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 objects may hinder operation of the machine.
- Make sure the lights, turn signals and windshield wipers are working properly.
- Make sure the rear-view mirrors are in good condition, clean and properly adjusted.
- Make sure the audible alarm works.

B - DRIVER'S OPERATING INSTRUCTIONS

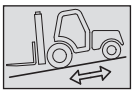
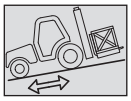
⚠ IMPORTANT ⚠

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

For cabs with a heating system, check the temperature setting to prevent any risk of burns from the heating vents.

- Whatever his experience, the operator is advised to familiarize himself with the position and operation of all the controls and instruments before operating the machine.
- Wear clothes suitable for driving the machine, avoid loose clothing.
- 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 machine 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 machine.
- Remain alert at all times when using the machine. 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 the normal operator's position. Arms and legs, and generally any part of the body, should be kept inside the driver's cab of the machine.
- The safety belt must be worn and adjusted to the operator's size.
- The control units must never be used for any other than their intended purposes (e.g. Climbing onto or down from the machine, coat hanger, 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 machine or in the cab.

C - ENVIRONMENT

- Comply with site safety regulations.
- If you have to use the machine in a dark area or work at night, make sure it is equipped with work lights.
- During handling operations, make sure that no one is in the way of the machine and its load.
- Do not allow anybody to come near the working area of the machine or pass beneath an elevated load.
- The maximum slope on which the machine can be used in relation to the capacity of the service brake is 20%.
- 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.
- Traveling 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 machine's dimensions and its load before trying to negotiate a narrow or low passageway.
- Never move onto a load bridge without having first checked:
  - That it is suitably positioned and made fast.
  - That the unit to which it is connected (wagon, truck, etc.) will not shift.
  - That this bridge is prescribed for the total weight of the machine, laden or unladen.
  - That this bridge is prescribed for the size of the machine.
- Never move onto a foot bridge, floor or freight lift, without being certain that they are suitable for the weight and size of the machine, laden or otherwise, 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.

647835M3 (E-08/2024)
M.. D ST5 S1 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.
- In the case of work near to overhead lines, ensure that the safety distance is sufficient between the machine's working area and the overhead line.

⚠ IMPORTANT ⚠

You must consult your local electrical agency.

You could be electrocuted or seriously injured if you operate or park the machine too close to power cables.

In the event of high winds, do not carry out handling work that jeopardizes the stability of the machine 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 machine's working area, as well as that of the machine itself and the operator, are dependent on good operator visibility of the machine's immediate surroundings in all situations and at all times.
- This machine has been designed to allow good operator visibility (direct or indirect by means of rear-view mirrors) of the immediate surroundings of the machine while driving 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 operation (while standing outside the machine's area of travel), making sure to keep this person clearly in view at all times,
  - At all events, avoid reversing long distances.
- If visibility of your road is inadequate, ask someone to assist by directing the operation (while standing outside the machine'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. windshields, windows, windshield wipers, windshield washers, driving lights and worklights, rear-view mirrors).

E - STARTING THE MACHINE

SAFETY INSTRUCTIONS

⚠ IMPORTANT ⚠

The machine must only be started up or maneuvered when the operator is sitting in the driver's cab with seat belt fastened and adjusted.

- Never try to start the machine by pushing or towing 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 being charged.

INSTRUCTIONS

- Check the closing and locking of the hood(s).
- For machines operating on gas carburization, 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 idling speed.
- 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.

647835M3 (E-08/2024)
M.. D ST5 S1 EU

F - OPERATING THE MACHINE

SAFETY INSTRUCTIONS

⚠ IMPORTANT ⚠

We would like to draw the operators' attention to the risks involved in using the machine, in particular:
- Risk of losing control.
- Risk of loss of lateral and frontal stability of the machine.
The operator must remain in control of the machine.
In the event of the machine overturning, do not try to leave the cab during the incident.
YOUR BEST PROTECTION IS TO STAY FASTENED IN THE CAB.

- Observe the company's traffic regulations or, by default, the public highway code.
- Do not carry out operations which exceed the capacities of your machine or attachment.
- Always drive the machine with the forks or attachment in the transport position, i.e. 300 mm (11,81 in) from the ground and with the carriage sloping backward.
- 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.
- Familiarize yourself with the machine on the terrain where it will be used.
- Ensure that the service brakes are working properly.
- The engine speed during movement of the machine when loaded must not exceed the maximum value indicated in the machine's technical data.
- Drive smoothly at an appropriate speed for the operating conditions (land configuration, load on the machine).
- Reduce the lift truck's moving speed when transporting loads.
- Do not use the hydraulic mast controls when the machine is moving.
- Do not maneuver the machine 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 there is sufficient visibility.
- 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 machine'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 machine 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 machines simultaneously to handle heavy or bulky 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 machines not fitted with a punch-operated cut-out.

INSTRUCTIONS

- Always drive the machine with the forks or attachment in the transport position, i.e. 300 mm (11,81 in) from the ground and with the carriage sloping backward.
- For machines 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 machine moves off.

647835M3 (E-08/2024)
M.. D ST5 S1 EU

G - STOPPING THE MACHINE

SAFETY INSTRUCTIONS

- Never leave the ignition key in the machine during the operator's absence.
- When the machine 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 machine is not stopped in any position that will interfere with the traffic flow and at less than one meter from the track of a railway.
- In the event of prolonged parking on a site, protect the machine from bad weather, particularly from frost (check the level of antifreeze), and close and lock all the machine accesses (doors, windows, cowls, etc.).

INSTRUCTIONS

- Park the machine on flat ground or on an incline lower than 15%.
- Set the forward/reverse selector to neutral.
- Apply the parking brake.
- For machines 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 machine after intensive work, leave the engine idling for a few moments to allow the coolant 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.
- At the end of the day, activate the battery cut-off, and if the machine is being shut down from more than 20 days, disconnect the battery.
- Lock all the accesses to the machine (doors, windows, cowls, etc.).
- For machines operating on gas carburization, close the gas 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 MACHINE ON THE PUBLIC HIGHWAY

FRENCH ROAD TRAFFIC RULES

- The driving of non-approved machines on the public highway is subject to the provisions of the highway code relating to special machines, defined in Article R311-1 of the French Highway Code (*Code de la route*), in category B of the Equipment Order of 20 November 1969 that determines the procedures applicable to special machines. The machine must be fitted with an operating license plate.

SAFETY INSTRUCTIONS

- Operators driving on the public highway must comply with current highway code legislation.
- The machine 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, turn signals and windshield wipers are working properly.
- Switch off the worklights if the machine is fitted with them.
- Place the attachment 300 mm (11,81 in) from the ground.

⚠ IMPORTANT ⚠

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

DRIVING THE MACHINE 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 machine.
- 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.

647835M3 (E-08/2024)
M.. D ST5 S1 EU

For machines equipped with a towing system

OPERATING THE MACHINE 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 machine.
- The trailer's braking system must comply with current legislation.
- If pulling a trailer with assisted braking, the tractor machine must be equipped with a trailer braking mechanism. In this case, do not forget to connect the trailer braking equipment to that of the machine.
- The vertical force on the towing hook must not exceed the maximum authorized by the manufacturer (consult the manufacturer's plate on your machine).
- The authorized gross vehicle weight must not exceed the maximum weight authorized by the manufacturer (consult the manufacturer's plate on your machine).

IF NECESSARY, CONSULT YOUR DEALER.

INSTRUCTIONS FOR HANDLING A LOAD

A - CHOICE OF ATTACHMENTS

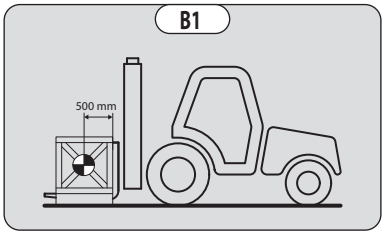
- Only attachments approved by MANITOU can be used on its machines.
- Make sure the attachment is appropriate for the work to be done (◁ 4 - ADAPTABLE ATTACHMENTS AVAILABLE ON THE RANGE).
- Make sure the attachment is correctly installed and locked onto the machine carriage.
- Make sure that your machine attachments are working properly.
- Comply with the load chart limits for the machine 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. Optional solutions are available, please consult your dealer.

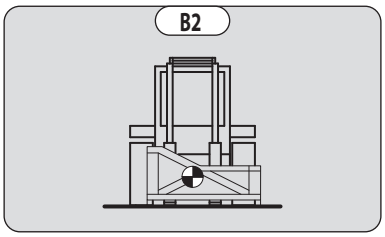
B - WEIGHT OF LOAD AND CENTRE OF GRAVITY

- Before picking up a load, you must know its weight and its center of gravity.
- The load chart for your machine is valid for a load in which the longitudinal position of the center of gravity is 500 mm (19,68 in) or 600 mm (23,62 in) from the base of the forks (depending on the model) (Fig. B1). For loads with center of gravity exceeding this distance, contact your dealer.
- For irregular loads, determine the transverse center of gravity before any handling (Fig. B2) and set it in the longitudinal axis of the machine.

⚠ IMPORTANT ⚠

It is forbidden to handle a load heavier than the effective capacity defined on the machine load chart.
For loads with a moving center of gravity (e.g. liquids), take account of the variations in the center 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 MACHINE

- The transverse attitude is the lateral tilt of the chassis in relation to the floor.
- Raising the mast reduces the machine's lateral stability.
- The transverse attitude of the machine must be horizontal with the mast in the down position:

Depending on model

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

647835M3 (E-08/2024)
M.. D ST5 S1 EU

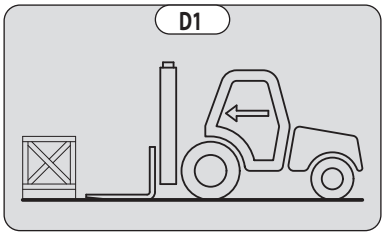
D - PICKING UP A LOAD ON THE GROUND

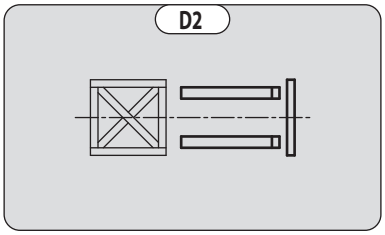
- Advance the machine perpendicular to the load, with the forks in a horizontal position (Fig. D1).
- Adjust the fork spread and centring in connection with the load (fig. D2) (optional solutions exist, consult your dealer).
- Never lift a load with a single fork.

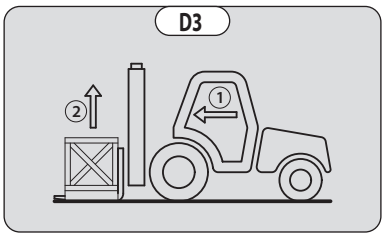
⚠ IMPORTANT ⚠

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

- Move the machine forward slowly (1) and bring the forks up to the stop in front of the load (Fig. D3). If necessary, lift the mast slightly (2) while picking 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).

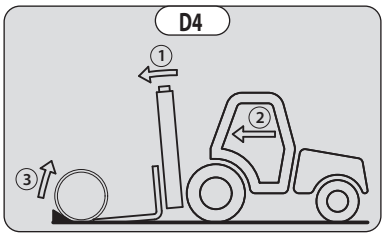






FOR A NON-PALLETIZED LOAD

- Tilt the carriage (1) forward and move the machine slowly forward (2) to insert the fork under the load (Fig. D4) (chock the load if necessary).
- Continue to move the machine (2) forward, tilting the carriage (3) (fig. D4) backward 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

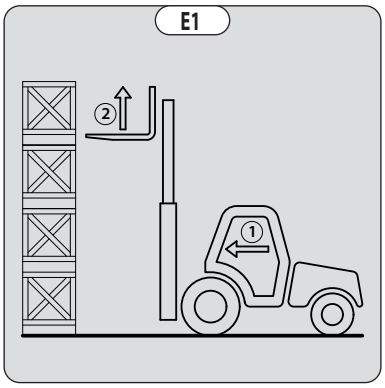
⚠ IMPORTANT ⚠

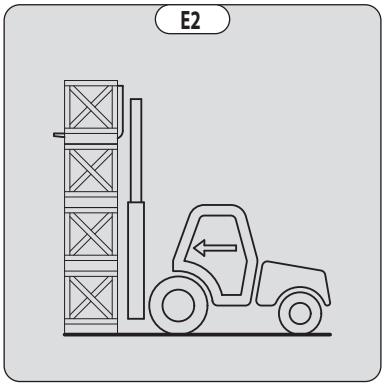
You must not raise the mast if you have not checked the transverse attitude of the machine (◁ INSTRUCTIONS FOR HANDLING A LOAD).

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

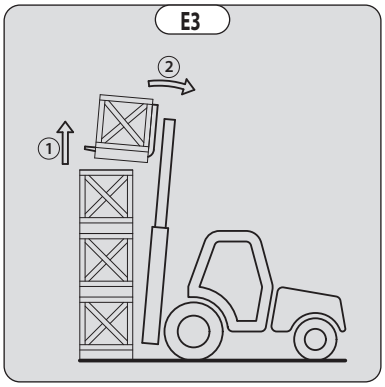
- Ensure that the forks will easily pass under the load.
- Keeping the mast vertical (1), advance the machine and raise the forks to level with the load (2) (Fig. E1).
- Manoeuvre carefully and gently to bring the forks to the stop in front of the load (fig. E2). Apply the parking brake and place the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

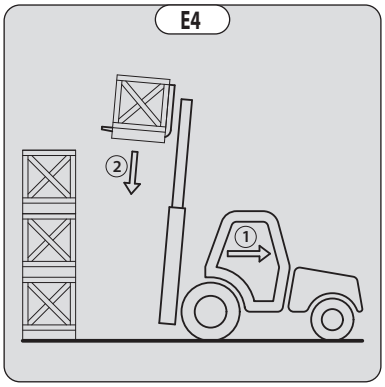




647835M3 (E-08/2024)
M.. D ST5 S1 EU

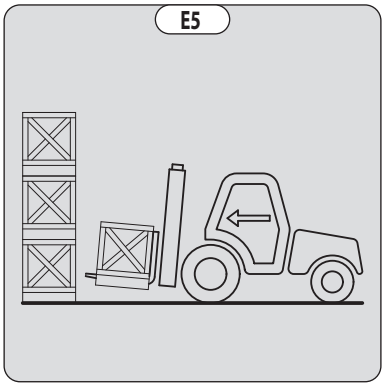
- Lift the load slightly (1) and tilt the carriage (2) backward to stabilize the load (Fig. E3).
- Tilt the load sufficiently backwards to ensure its stability.
- Reverse the machine (1) very carefully and gently to free the load. Lower the mast (2) to bring the load into transport position (fig. E4).

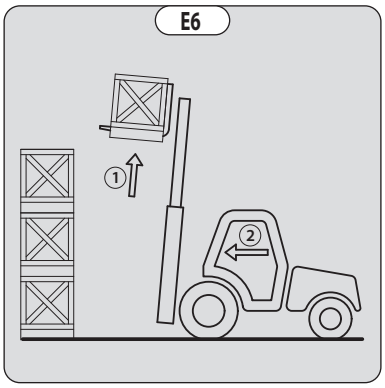


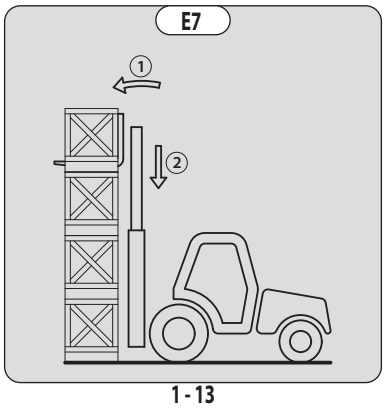


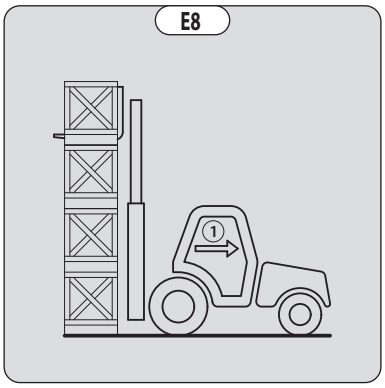
SETTING DOWN A HIGH LOAD ON TIRES

- 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 machine forward (2) (Fig. E6) very carefully and gently, until the load is over the pile. Apply the parking brake and place the forward/reverse selector in 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 machine (1) very slowly and carefully to free the forks (Fig. E8). Then set the forks into transport position.









647835M3 (E-08/2024)
M.. D ST5 S1 EU

MACHINE MAINTENANCE INSTRUCTIONS

GENERAL INSTRUCTIONS

- Make sure the area is adequately ventilated before starting up the machine.
- Wear clothes suitable for the maintenance of the machine. Avoid wearing jewelry and loose clothes. Tie back and protect your hair, if necessary.
- Before doing any work on the machine:
  - 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
  - Cab heating vents
  - Etc.

MAINTENANCE

- Perform the periodic service (◁ 3 - MAINTENANCE) to keep your machine in good working order. Failure to perform periodic maintenance may invalidate the contractual warranty.

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 machine or its attachments should be recorded in a maintenance logbook. The entry for each operation should include the date of the work, the names of the individuals or companies having performed them, the type of operation and its frequency, if applicable. If machine elements are replaced, the part numbers of these elements shall 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 machine 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 chapter: 3 - MAINTENANCE.
- Do not attempt to loosen unions, hoses or any hydraulic component with the circuit under pressure.

⚠ IMPORTANT ⚠

It is dangerous to change the setting or remove the BALANCING VALVES or SAFETY VALVES that may be fitted to your machine cylinders.
The HYDRAULIC ACCUMULATORS that may be fitted on your machine are pressurized 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 machine may suddenly start to move.
- Do not place metal items on the battery.
- Disconnect the battery before working on the electrical circuit.

647835M3 (E-08/2024)
M.. D ST5 S1 EU

WELDING

- Disconnect the battery before any welding operations on the machine.
- When carrying out electric welding work on the machine, connect the negative cable from the equipment directly to the part being welded so as to avoid very high 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 machine is equipped with an electronic control unit, disconnect it before starting to weld so as to avoid the risk of causing irreparable damage to electronic components.

WASHING THE MACHINE

- Clean the machine or at least the area concerned before any intervention.
- Remember to close and lock all accesses to the machine (doors, windows, cowls, etc.).
- 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 machine of any traces of fuel, oil or grease.

TRANSPORTING THE MACHINE

⚠ IMPORTANT ⚠

Transporting the machine involves real risks for the operator and others involved.

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

PROLONGED MACHINE SHUTDOWN

INTRODUCTION

⚠ IMPORTANT ⚠

Procedures to follow for long duration standstill and for bringing back the machine into service must be performed by your dealership.
This period of long duration standstill must not exceed 12 months.
After 12 months, repeat the procedures for putting the machine back into service and long-term shutdown.

The recommendations below are intended to prevent the machine from being damaged when it is not used for a period of more than 3 months.

PREPARATION OF THE MACHINE

- Clean the machine 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 machine in clear and cold water and wipe them.
- Touch up the paintwork if necessary.
- Shut down the machine (◅ 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 machine model

- 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 machine to pressurize the circuit and bring it up to working temperature.
- Stop 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.

MACHINE PROTECTION

- Place the machine on level ground.
- Set the machine on axle stands so that the tires are not in contact with the ground and release the parking brake.
- Protect cylinder rods which will not be retracted from corrosion.
- Wrap the tires.

N.B.: If the machine is to be stored outdoors, cover it with a waterproof tarpaulin.

647835M3 (E-08/2024)
M.. D ST5 S1 EU

RETURNING THE MACHINE TO SERVICE

- Remove the waterproof adhesive tape from all the orifices.
- Refit and reconnect the battery.
- Remove the protection from the cylinder rods.
- Perform the daily maintenance operations (◁ 3 - MAINTENANCE).
- Perform the weekly 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 machine model)**
- Empty and rinse the DEF tank. **(depending on machine model)**
- Slowly fill the tank with new "DEF" (Diesel Exhaust Fluid) up to the bottom of the filler neck. **(depending on machine model)**
- 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 machine completely (◁ 3 - MAINTENANCE).

⚠ IMPORTANT ⚠

Make sure the area is adequately ventilated before starting up the machine.

- Start up the machine, following the operating and safety instructions (◁ OPERATING INSTRUCTIONS UNLADEN AND LADEN).
- Carry out all the boom hydraulic movements, concentrating on the ends of travel for each cylinder.

647835M3 (E-08/2024)
M.. D ST5 S1 EU

DISPOSING OF THE MACHINE

⚠ IMPORTANT ⚠

Consult your dealer before disposing of the machine.

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 the plastic components are made of "thermoplastic" plastics, which are easily recycled by melting, granulating or grinding.

RUBBER

- Tires 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 machine to the MANITOU network, the risk of pollution is limited and the contribution to environmental protection 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 organizes 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.

N.B.: MANITOU aims to manufacture machines that provide the best performance and limit polluting emissions.

647835M3 (E-08/2024)
M.. D ST5 S1 EU

2 - DESCRIPTION

2 - DESCRIPTION

647835M3 (E-08/2024)
M.. D ST5 S1 EU

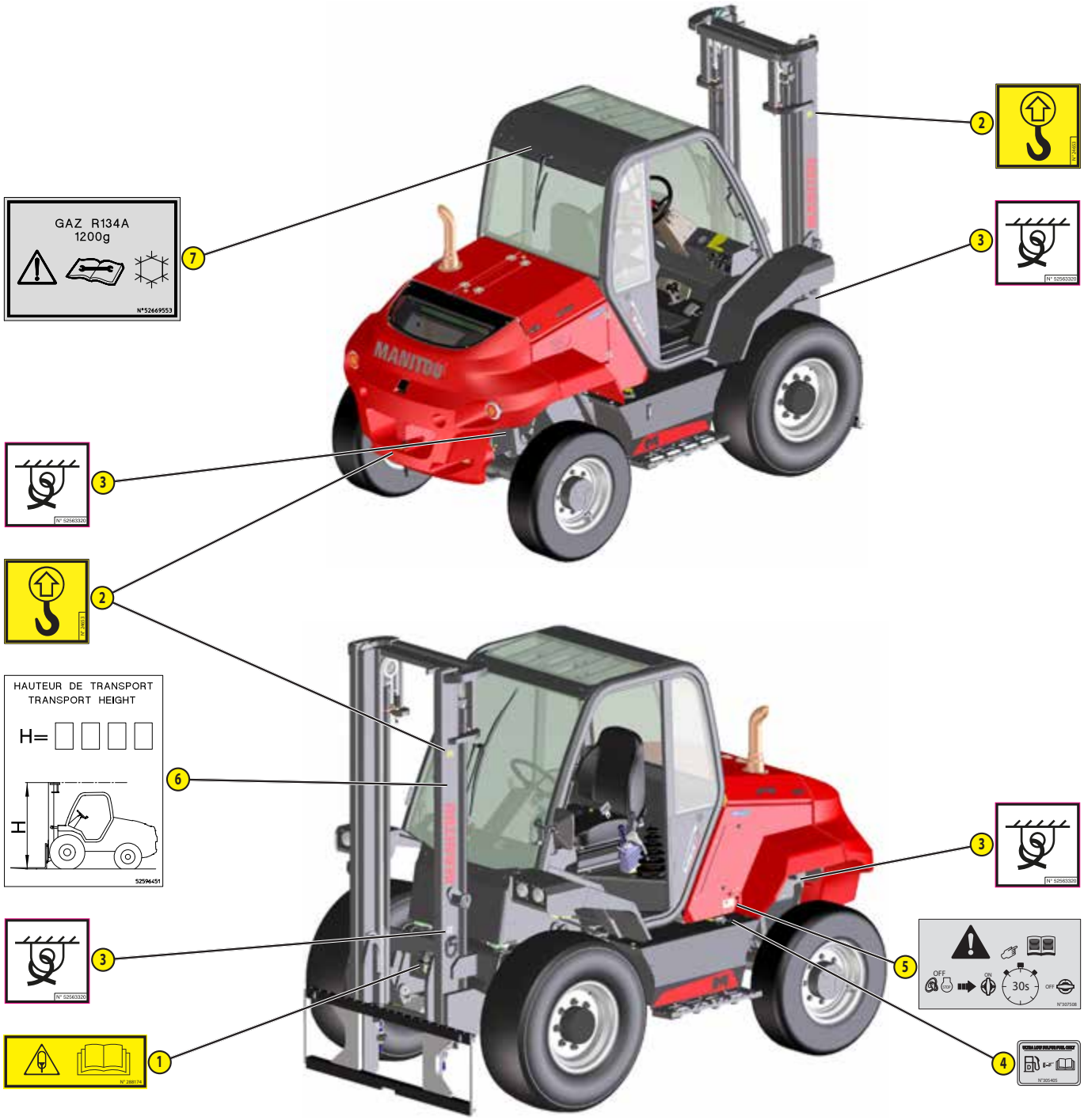
SAFETY PLATES AND STICKERS

⚠ IMPORTANT ⚠

Clean all stickers and safety plates so that they are legible.
Any safety plates and stickers which are illegible or damaged must be replaced.
Check that stickers and safety plates are present after replacing any spare parts.

EXTERNAL PLATES AND STICKERS

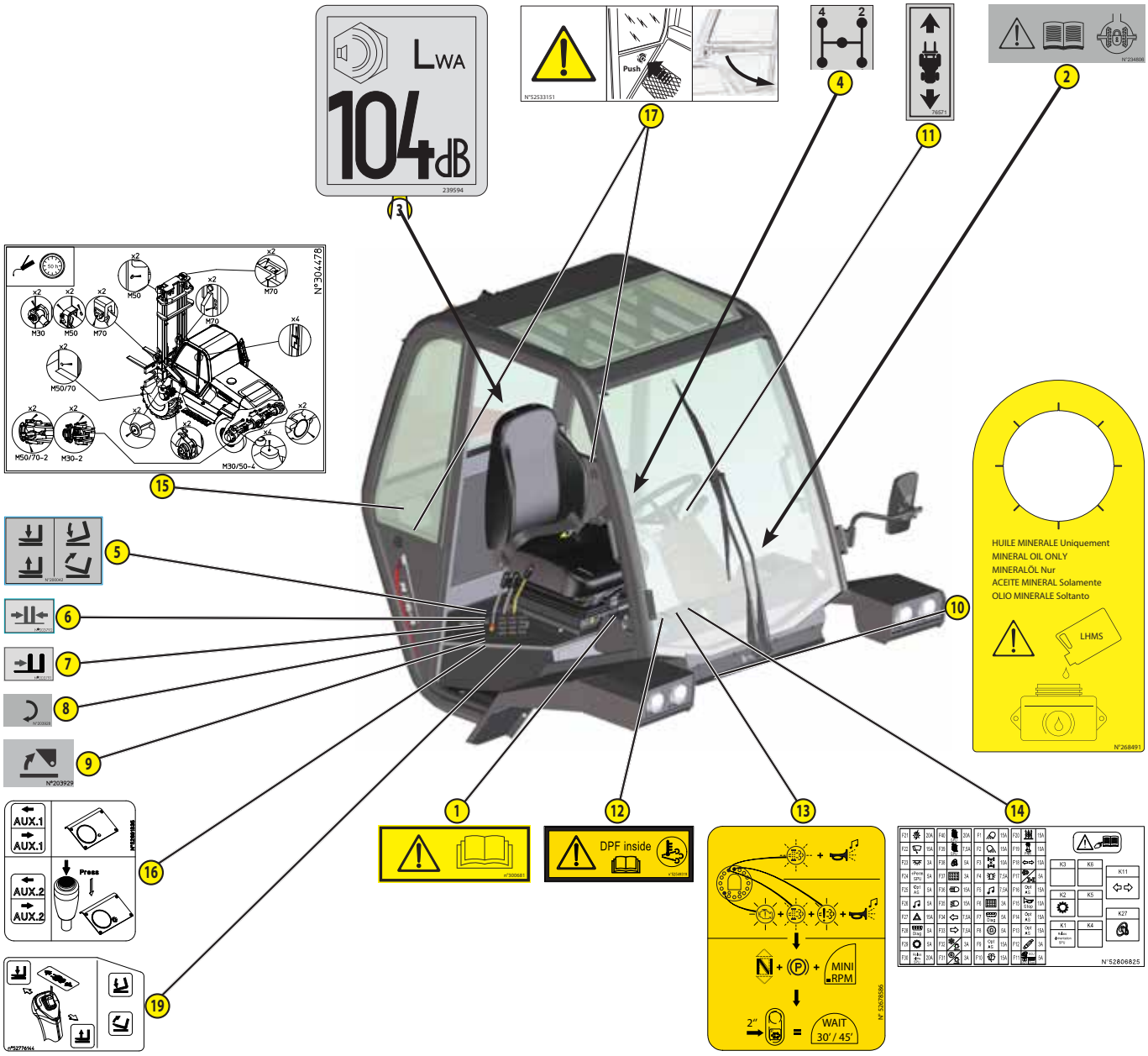
REF.	REFERENCE	DESCRIPTION
1	288174	- Accumulator Instructions
2	24653	- Slinging point
3	52563320	- Anchoring point
4	305405	- Fuel instruction
5	307508	- Battery cut-off instruction
6	52596451	- Overall height (Option)
7	52669553	- Air conditioning (Option)



647835M3 (E-08/2024)
M.. D ST5 S1 EU

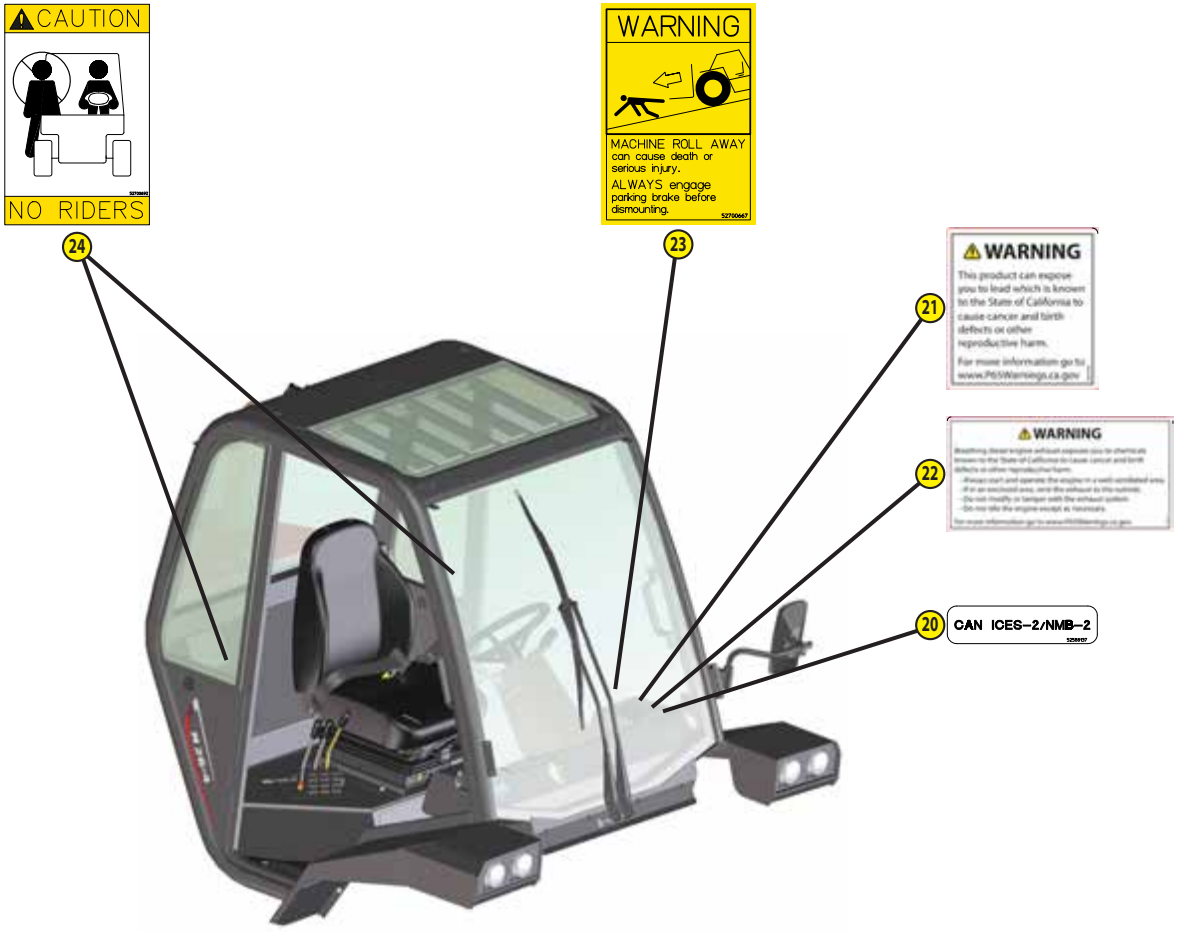
STICKERS AND PLATES IN THE CAB

REF.	REFERENCE	DESCRIPTION
1	300681	- Safety instruction
2	234806	- Differential lock instruction M26-2 ... / M30-2 ... / M40-2 ... / M50-2 ...
2	234806	- Differential lock instruction (Option) M26-4 ... / M30-4 ...
3	239594	- Sound power level 104 dB
4	33460	- Gear selection
5	200042	- Joystick function (first version)
6	203792	- Joystick function
7	203791	- Joystick function
8	203928	- Joystick function
9	203929	- Joystick function
10	268491	- Brake fluid instruction
11	76571	- Reversing shift (first version)
12	52549319	- Warning label "DPF"
13	52678586	- Regeneration instructions
14	52682406	- Fuses and relays (first version)
14	52806825	- Fuses and relays (second version)
15	304478	- Lubrication instructions
16	52691835	- Attachment line AUX.1/AUX.2 (Option) M26-2 ... / M26-4 ... / M30-2 ... / M30-4 ...
17	52533151	- Door release instruction (Option)
19	52776144	- Joystick function + reversing shift (second version)



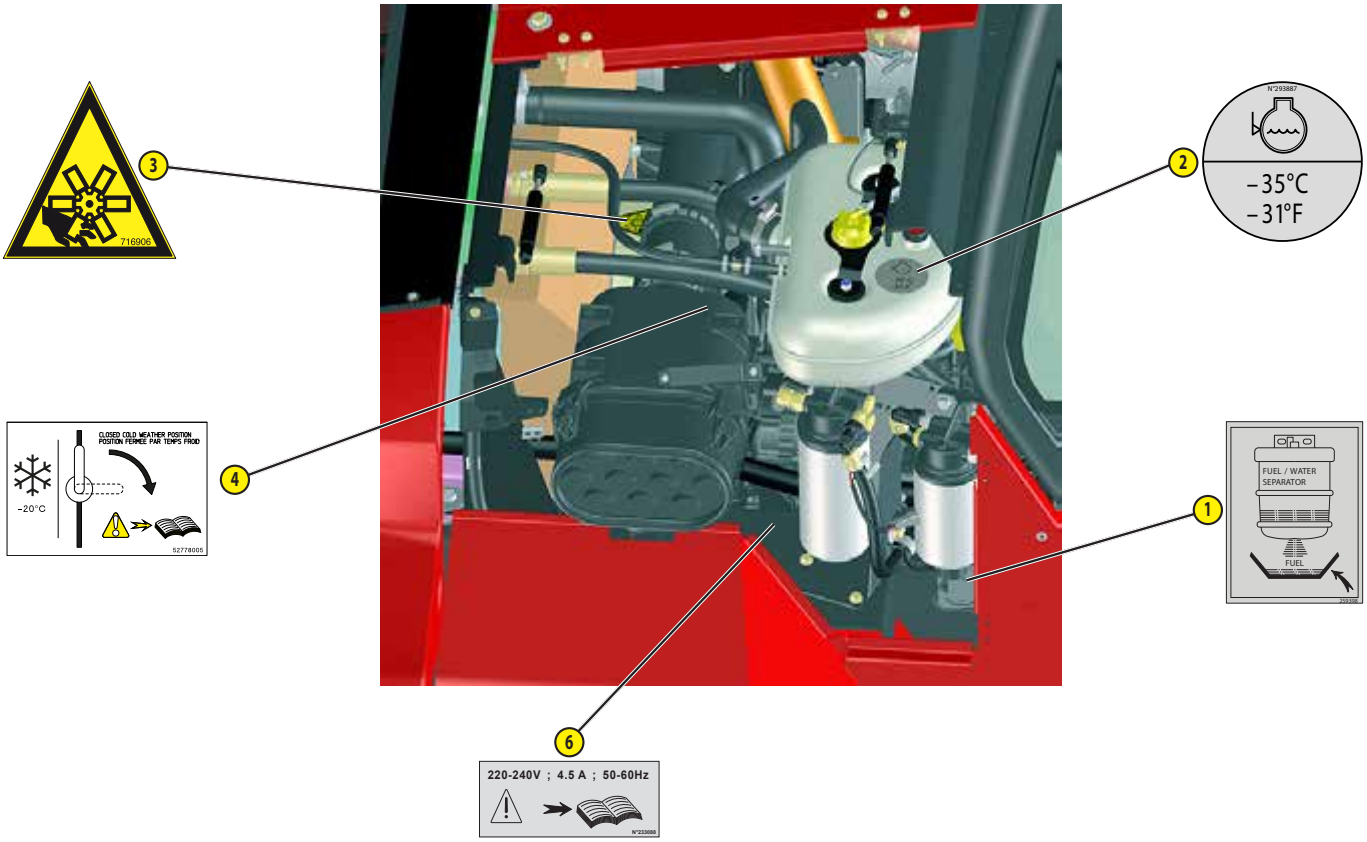
647835M3 (E-08/2024)
M.. D ST5 S1 EU

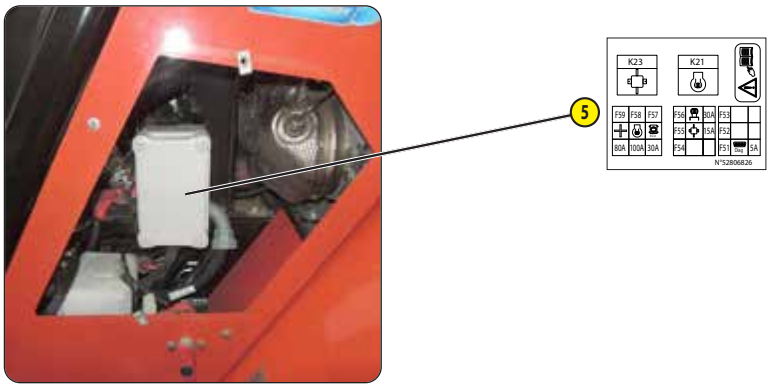
REF.	REFERENCE	DESCRIPTION
20	52588137	- CAN ICES-2 NMB-2
21	52618158	- Prop 65 warning
22	52618159	- Prop 65 exhaust warning
23	52700667	- Warning "roll away"
24	52700692	- Caution "no riders"



STICKERS AND PLATES UNDER THE ENGINE HOOD

REF.	REFERENCE	DESCRIPTION
1	293887	- Anti-freeze
2	259398	- Water / diesel separator
3	716906	- Fan hazard
4	52778005	- Extreme cold instruction (Option)
5	52806826	- Fuses and relays
6	233088	- Engine block heater (Option)





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.

N.B.: For the owner's convenience, it is recommended that these numbers be entered in the spaces provided, at the time of the delivery of the lift truck.

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" Authorized gross vehicle weight	
"Rated capacity" Rated capacity	
"Max vertical force (on trailer hook)" Maximum vertical force (on trailer hook)	
"Drag strain" Tractive force	

ENGINE

"MODEL" Model	
"SER.NO" Serial number	
"CODE" Supplier code	
"SPEC" Specification	
"CSPEC" Specification code	

GEARBOX

Part No. MANITOU	
Type	
Serial number	

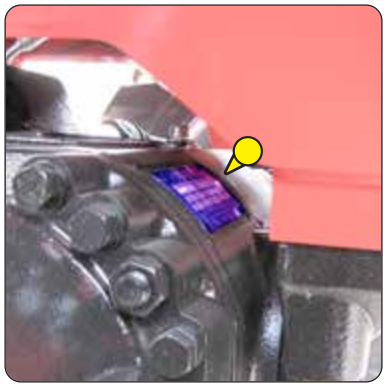
FRONT AXLE

Type	
Serial number	
Part No. MANITOU	

REAR AXLE

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

Type	
Serial number	
Part No. MANITOU	



OVERHEAD GUARD

CAB (Option)

"Constructeur" Manufacturer	
"Type Cabine" Cab type	
"N° de série" Serial number	

ROLLER MASTS

Part No. MANITOU	

CHASSIS

Serial number / Product Identification Number	

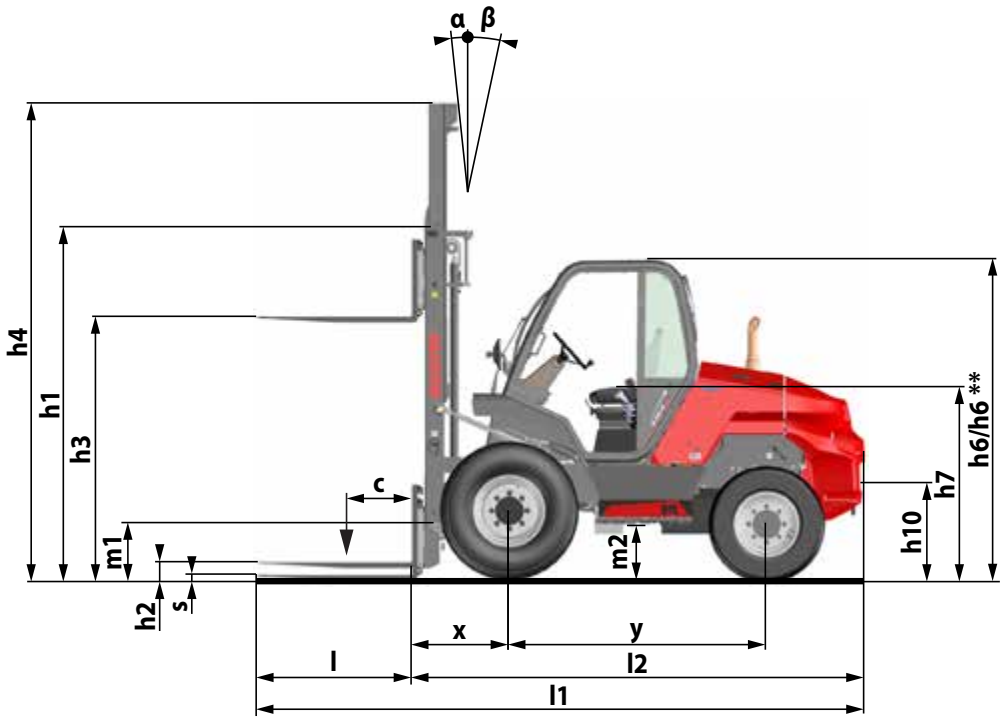
ATTACHMENT MANUFACTURER'S PLATE

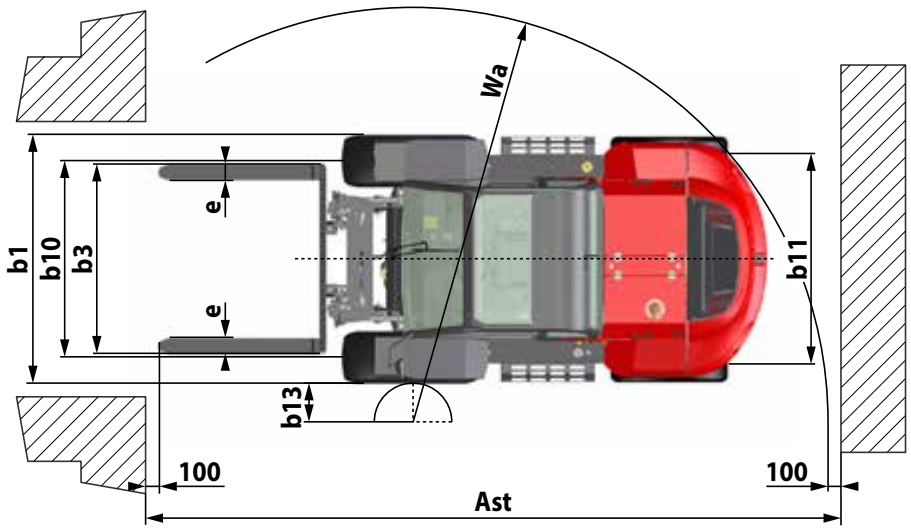
"MODELE" Model	
"N° série" Serial number	
"Année Fabrication" Year of manufacture	
"Masse à vide" Unladen weight	
"Centre de gravité" Center of gravity	
"Capacité Nominale" Rated capacity	
"Pression service" Working pressure	

N.B.: The specifications given are not binding on the manufacturer and may be modified without notice.

				MANITOU	
DESIGNATION	1.1	-Manufacturer			
	1.2	-Model type		M26-2 D ST5 S1 EU	M26-4 D ST5 S1 EU
	1.3	-Propulsion: battery, diesel, gasoline, LPG, mains		Diesel	Diesel
	1.4	-Operator type: hand, pedestrian, standing, seated		Seated	Seated
	1.5	-Rated capacity/load on forks (basic capacity)	Q (t)	2,6	2,6
	1.6	-Center of gravity of load	c (mm)	500	500
	1.8	-Distance from load bearing surface to center of the front axle	x (mm)	747	747
	1.9	-Wheelbase	y (mm)	1995	1995
WEIGHT	2.1	-Weight of truck in working order	kg	5590	5630
	2.2	-Front axle load (laden)	kg	6940	6640
	2.2.1	-Rear axle load (laden)	kg	1250	1590
	2.3	-Front axle load (unladen)	kg	2530	2230
	2.3.1	-Rear axle load (unladen)	kg	3060	3400
RUNNING GEAR	3.1	-Wheel equipment bands (V), super-elastic (SE), pneumatic (L)		L	L
	3.2	-Tire size, front	" or mm	14,5R20 18PR MPT80	405/70-20 149B I323
	3.3	-Tire size, rear	" or mm	10R17,5 G291 GY	10,5-18 12PR I317
	3.5	-Number of front wheels (x = drive wheel)		2x	2x
	3.5.1	-Number of rear wheels (x = drive wheel)		2	2x
	3.6	-Track width, front (middle of wheels)	b10 (mm)	1550	1520
	3.7	-Track width, rear (middle of wheels)	b11 (mm)	1644	1630
DIMENSIONS	4.1	-Mast tilt, forward	α (°)	6	6
	4.1.1	-Mast tilt, backward	β (°)	12	12
	4.2	-Height of mast, lowered	h1 (mm)	2696	2689
	4.3	-Normal free lift	h2 (mm)	-	-
	4.4	-Lift height	h3 (mm)	3700	3700
	4.5	-Height of mast, extended	h4 (mm)	4626	4619
	4.7	-Height of overhead guard, standard / cab	h6 (mm)	2450	2458
	4.7	-Height of overhead guard, lowered (Option)	h6 *(mm)	-	-
	4.7	-Height of air-conditioned cab (Option)	h6 **(mm)	2450	2458
	4.8	-Height of seat	h7 (mm)	1420	1426
	4.12	-Coupling height	h10 (mm)	700	730
	4.19	-Total length	l1 (mm)	4701	4701
	4.20	-Length to face of forks	l2 (mm)	3501	3501
	4.21	-Overall width	b1 (mm)	1923	1927
	4.22	-Fork cross-section	s (mm)	40	40
	4.22.1	-Width of fork arms	e (mm)	125	125
	4.22.2	-Length of forks	l (mm)	1200	1200
	4.23	-Fork carriage (according to DIN 15173 A/B)		3A	3A
	4.24	-Width of fork carriage (with load backrest)	b3 (mm)	1470	1470
	4.31	-Ground clearance below mast (unladen)	m1 (mm)	406	399
	4.32	-Ground clearance center of wheelbase (unladen)	m2 (mm)	390	395
	4.33	-Aisle width for 1000x1200 pallet crosswise	Ast (mm)	5360	6180
	4.34	-Aisle width for 800x1200 pallet crosswise	Ast (mm)	5360	6180
	4.35	-Turning radius	Wa (mm)	3220	4030
	4.36	-Inner turning radius	b13 (mm)	300	1135
PERFORMANCE	5.1	-Speed of travel laden	km/h	12	12
	5.1.1	-Speed of travel unladen	km/h	22	22
	5.2	-Lifting speed (laden)	m/s	0,6	0,6
	5.2.1	-Lifting speed (unladen)	m/s	0,6	0,6
	5.3	-Speed of lowering laden	m/s	0,4	0,4
	5.3.1	-Lowering speed (unladen)	m/s	0,4	0,4
	5.5	-Rated drawbar pull (laden)	daN	4000	6000
	5.7	-Gradeability (laden)	%	-	-
	5.7.1	-Gradeability (unladen)	%	-	-
	5.9	-Acceleration time (laden)	s	17,5	-
	5.9.1	-Acceleration time (unladen)	s	7,1	-
	5.10	-Service brake		Hydraulic power brake	Hydraulic power brake

ENGINE	7.1	-Engine manufacturer/Type		DEUTZ TCD 2,9	DEUTZ TCD 2,9
	7.2	-Engine power (according to ISO 1585)	kW	55	55
	7.3	-Rated speed	rpm	2300	2300
	7.3.1	-Maximum speed	rpm	3200	3200
	7.4	-Number of cylinders / Displacement	cm^3	4 / 2925	4 / 2925
	7.5	-Fuel consumption (according to VDI cycle)	L/h	5,1	6,6
	7.6	-Emissions CO_2	kg/h	13,3	17,2
MISCELLANEOUS	8.1	-Speed control		Electrical	Electrical
	8.2	-Working hydraulic pressure for attachments	Bar	185	185
	8.3	-Oil flow rate for attachments	L/min	52	52
	8.3	-Oil flow rate for attachments 3rd hydraulic line	L/min	52	52
	8.3	-Oil flow rate for attachments 3rd hydraulic line/4th hydraulic line	L/min	25 / 52	25 / 52
	8.4	-Sound level at the driver's ear (according to DIN 12053)	dB (A)	78	78
	8.4	-Guaranteed sound power level in the environment LwA (according to Directive 2000/14/EC modified by Directive 2005/88/EC)	dB (A)	104	104





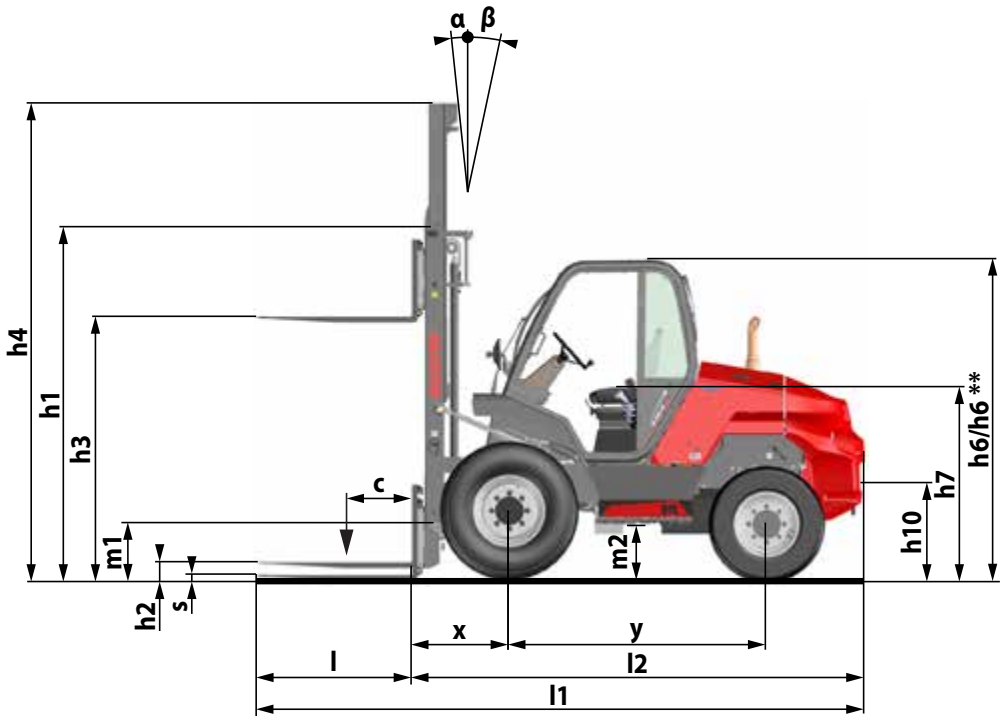
647835M3 (E-08/2024)
M.. D ST5 S1 EU

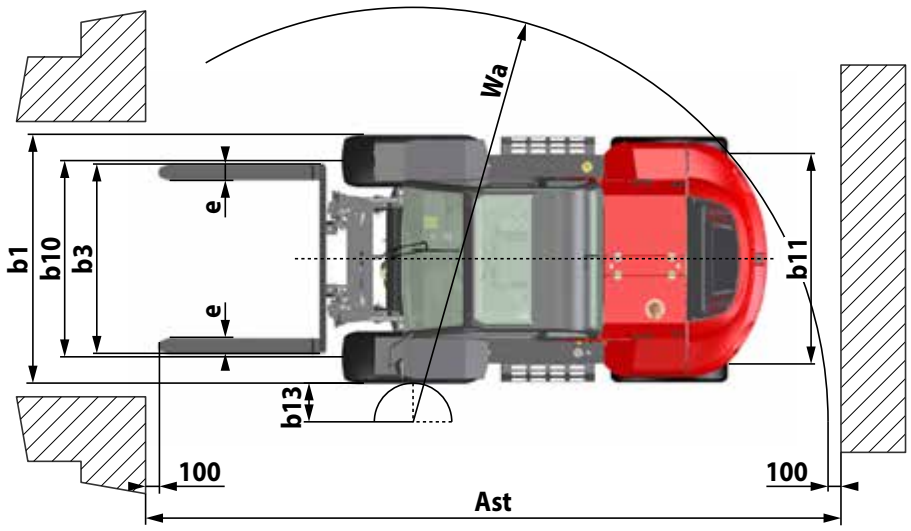
N.B.: The specifications given are not binding on the manufacturer and may be modified without notice.

				MANITOU	
DESIGNATION	1.1	-Manufacturer			
	1.2	-Model type		M30-2 D ST5 S1 EU	M30-4 D ST5 S1 EU
	1.3	-Propulsion: battery, diesel, gasoline, LPG, mains		Diesel	Diesel
	1.4	-Operator type: hand, pedestrian, standing, seated		Seated	Seated
	1.5	-Rated capacity/load on forks (basic capacity)	Q (t)	3	3
	1.6	-Center of gravity of load	c (mm)	500	500
	1.8	-Distance from load bearing surface to center of the front axle	x (mm)	747	747
	1.9	-Wheelbase	y (mm)	1995	1995
WEIGHT	2.1	-Weight of truck in working order	kg	5895	5965
	2.2	-Front axle load (laden)	kg	7490	7490
	2.2.1	-Rear axle load (laden)	kg	1405	1475
	2.3	-Front axle load (unladen)	kg	2155	2155
	2.3.1	-Rear axle load (unladen)	kg	3740	3810
RUNNING GEAR	3.1	-Wheel equipment bands (V), super-elastic (SE), pneumatic (L)		L	L
	3.2	-Tire size, front	" or mm	14,5R20 18PR MPT80	405/70-20 149B I323
	3.3	-Tire size, rear	" or mm	10R17,5 G291 GY	10,5-18 12PR I317
	3.5	-Number of front wheels (x = drive wheel)		2x	2x
	3.5.1	-Number of rear wheels (x = drive wheel)		2	2x
	3.6	-Track width, front (middle of wheels)	b10 (mm)	1550	1520
	3.7	-Track width, rear (middle of wheels)	b11 (mm)	1644	1630
DIMENSIONS	4.1	-Mast tilt, forward	α (°)	6	6
	4.1.1	-Mast tilt, backward	β (°)	12	12
	4.2	-Height of mast, lowered	h1 (mm)	2696	2689
	4.3	-Normal free lift	h2 (mm)	-	-
	4.4	-Lift height	h3 (mm)	3700	3700
	4.5	-Height of mast, extended	h4 (mm)	4626	4619
	4.7	-Height of overhead guard, standard / cab	h6 (mm)	2450	2458
	4.7	-Height of overhead guard, lowered (Option)	h6 *(mm)	-	-
	4.7	-Height of air-conditioned cab (Option)	h6 **(mm)	2450	2458
	4.8	-Height of seat	h7 (mm)	1420	1426
	4.12	-Coupling height	h10 (mm)	700	730
	4.19	-Total length	l1 (mm)	4701	4701
	4.20	-Length to face of forks	l2 (mm)	3501	3501
	4.21	-Overall width	b1 (mm)	1923	1927
	4.22	-Fork cross-section	s (mm)	40	40
	4.22.1	-Width of fork arms	e (mm)	125	125
	4.22.2	-Length of forks	l (mm)	1200	1200
	4.23	-Fork carriage (according to DIN 15173 A/B)		3A	3A
	4.24	-Width of fork carriage (with load backrest)	b3 (mm)	1470	1470
	4.31	-Ground clearance below mast (unladen)	m1 (mm)	406	399
	4.32	-Ground clearance center of wheelbase (unladen)	m2 (mm)	390	395
	4.33	-Aisle width for 1000x1200 pallet crosswise	Ast (mm)	5360	6180
	4.34	-Aisle width for 800x1200 pallet crosswise	Ast (mm)	5360	6180
	4.35	-Turning radius	Wa (mm)	3220	4030
	4.36	-Inner turning radius	b13 (mm)	300	1135
PERFORMANCE	5.1	-Speed of travel laden	km/h	12	12
	5.1.1	-Speed of travel unladen	km/h	22	22
	5.2	-Lifting speed (laden)	m/s	0,6	0,6
	5.2.1	-Lifting speed (unladen)	m/s	0,6	0,6
	5.3	-Speed of lowering laden	m/s	0,4	0,4
	5.3.1	-Lowering speed (unladen)	m/s	0,4	0,4
	5.5	-Rated drawbar pull (laden)	daN	5000	6000
	5.7	-Gradeability (laden)	%	62	-
	5.7.1	-Gradeability (unladen)	%	-	-
	5.9	-Acceleration time (laden)	s	-	-
	5.9.1	-Acceleration time (unladen)	s	-	-
	5.10	-Service brake		Hydraulic power brake	Hydraulic power brake

647835M3 (E-08/2024)
M.. D ST5 S1 EU

ENGINE	7.1	-Engine manufacturer/Type		DEUTZ TCD 2,9	DEUTZ TCD 2,9
	7.2	-Engine power (according to ISO 1585)	kW	55	55
	7.3	-Rated speed	rpm	2300	2300
	7.3.1	-Maximum speed	rpm	3200	3200
	7.4	-Number of cylinders / Displacement	cm^3	4 / 2925	4 / 2925
	7.5	-Fuel consumption (according to VDI cycle)	L/h	5,1	6,6
	7.6	-Emissions CO_2	kg/h	13,3	17,2
MISCELLANEOUS	8.1	-Speed control		Electrical	Electrical
	8.2	-Working hydraulic pressure for attachments	Bar	185	185
	8.3	-Oil flow rate for attachments	L/min	52	52
	8.3	-Oil flow rate for attachments 3rd hydraulic line	L/min	52	52
	8.3	-Oil flow rate for attachments 3rd hydraulic line/4th hydraulic line	L/min	25 / 52	25 / 52
	8.4	-Sound level at the driver's ear (according to DIN 12053)	dB (A)	78	78
	8.4	-Guaranteed sound power level in the environment LwA (according to Directive 2000/14/EC modified by Directive 2005/88/EC)	dB (A)	104	104





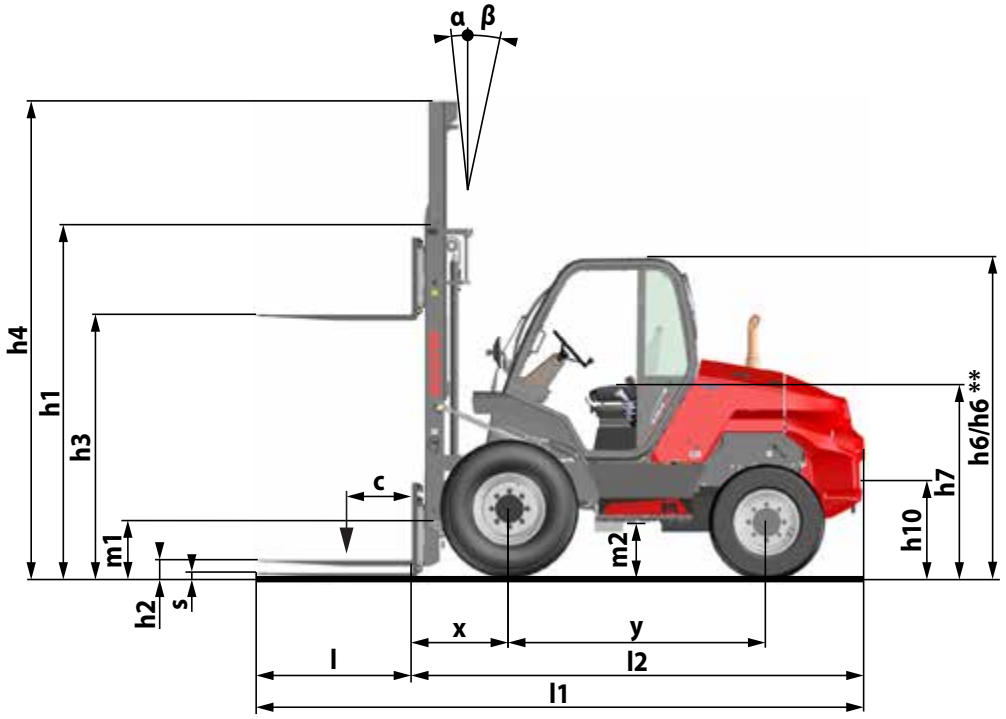
647835M3 (E-08/2024)
M.. D ST5 S1 EU

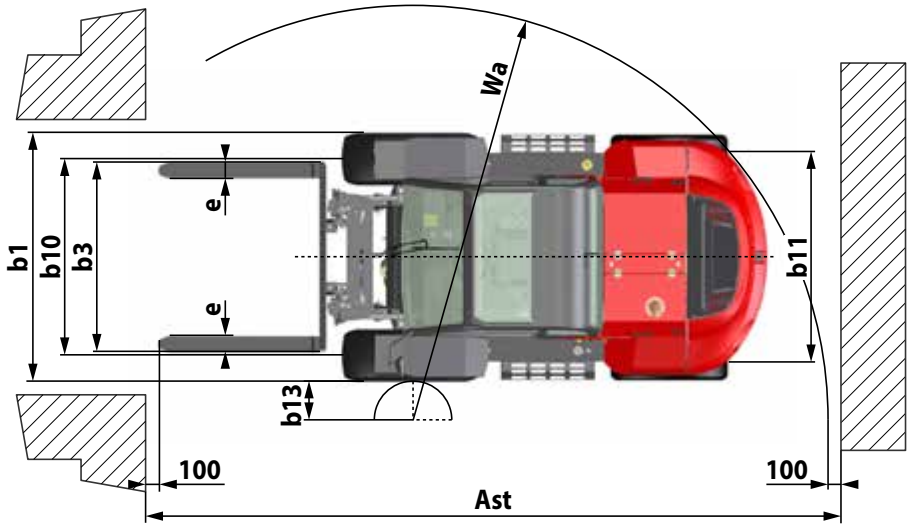
N.B.: The specifications given are not binding on the manufacturer and may be modified without notice.

				MANITOU	
DESIGNATION	1.1	-Manufacturer			
	1.2	-Model type		M40-2 D ST5 S1 EU	M40-4 D ST5 S1 EU
	1.3	-Propulsion: battery, diesel, gasoline, LPG, mains		Diesel	Diesel
	1.4	-Operator type: hand, pedestrian, standing, seated		Seated	Seated
	1.5	-Rated capacity/load on forks (basic capacity)	Q (t)	4	4
	1.6	-Center of gravity of load	c (mm)	500	500
	1.8	-Distance from load bearing surface to center of the front axle	x (mm)	763	763
	1.9	-Wheelbase	y (mm)	2060	2120
WEIGHT	2.1	-Weight of truck in working order	kg	6915	6965
	2.2	-Front axle load (laden)	kg	9075	9010
	2.2.1	-Rear axle load (laden)	kg	1840	1955
	2.3	-Front axle load (unladen)	kg	2625	2625
	2.3.1	-Rear axle load (unladen)	kg	4290	4340
RUNNING GEAR	3.1	-Wheel equipment bands (V), super-elastic (SE), pneumatic (L)		L	L
	3.2	-Tire size, front	" or mm	18-19,5 18PR A224	18-22,5 MPT-06
	3.3	-Tire size, rear	" or mm	10R17,5 G291 GY	340/80 R18 143A8 A580
	3.5	-Number of front wheels (x = drive wheel)		2x	2x
	3.5.1	-Number of rear wheels (x = drive wheel)		2	2x
	3.6	-Track width, front (middle of wheels)	b10 (mm)	1600	1620
	3.7	-Track width, rear (middle of wheels)	b11 (mm)	1640	1740
DIMENSIONS	4.1	-Mast tilt, forward	α (°)	15	15
	4.1.1	-Mast tilt, backward	β (°)	15	15
	4.2	-Height of mast, lowered	h1 (mm)	2870	2910
	4.3	-Normal free lift	h2 (mm)	-	-
	4.4	-Lift height	h3 (mm)	3700	3700
	4.5	-Height of mast, extended	h4 (mm)	4775	4815
	4.7	-Height of overhead guard, standard / cab	h6 (mm)	2440	2486
	4.7	-Height of overhead guard, lowered (Option)	h6 *(mm)	-	-
	4.7	-Height of air-conditioned cab (Option)	h6 **(mm)	2440	2486
	4.8	-Height of seat	h7 (mm)	1407	1455
	4.12	-Coupling height	h10 (mm)	685	735
	4.19	-Total length	l1 (mm)	4858	4858
	4.20	-Length to face of forks	l2 (mm)	3658	3658
	4.21	-Overall width	b1 (mm)	2057	2080
	4.22	-Fork cross-section	s (mm)	50	50
	4.22.1	-Width of fork arms	e (mm)	150	150
	4.22.2	-Length of forks	l (mm)	1200	1200
	4.23	-Fork carriage (according to DIN 15173 A/B)		3A	3A
	4.24	-Width of fork carriage (with load backrest)	b3 (mm)	1670	1670
	4.31	-Ground clearance below mast (unladen)	m1 (mm)	250	300
	4.32	-Ground clearance center of wheelbase (unladen)	m2 (mm)	377	426
	4.33	-Aisle width for 1000x1200 pallet crosswise	Ast (mm)	5560	6732
	4.34	-Aisle width for 800x1200 pallet crosswise	Ast (mm)	5560	6732
	4.35	-Turning radius	Wa (mm)	3395	4570
	4.36	-Inner turning radius	b13 (mm)	200	1650
PERFORMANCE	5.1	-Speed of travel laden	km/h	12	12
	5.1.1	-Speed of travel unladen	km/h	22	22
	5.2	-Lifting speed (laden)	m/s	0,4	0,4
	5.2.1	-Lifting speed (unladen)	m/s	0,4	0,4
	5.3	-Speed of lowering laden	m/s	0,5	0,5
	5.3.1	-Lowering speed (unladen)	m/s	0,4	0,4
	5.5	-Rated drawbar pull (laden)	daN	5000	9000
	5.7	-Gradeability (laden)	%	-	-
	5.7.1	-Gradeability (unladen)	%	-	-
	5.9	-Acceleration time (laden)	s	-	-
	5.9.1	-Acceleration time (unladen)	s	-	10,4
	5.10	-Service brake		Hydraulic power brake	Hydraulic power brake

647835M3 (E-08/2024)
M.. D ST5 S1 EU

ENGINE	7.1	-Engine manufacturer/Type		DEUTZ TCD 2,9	DEUTZ TCD 2,9
	7.2	-Engine power (according to ISO 1585)	kW	55	55
	7.3	-Rated speed	rpm	2300	2300
	7.3.1	-Maximum speed	rpm	3200	3200
	7.4	-Number of cylinders / Displacement	cm^3	4 / 2925	4 / 2925
	7.5	-Fuel consumption (according to VDI cycle)	L/h	5,5	6,9
	7.6	-Emissions CO_2	kg/h	14,3	18,0
MISCELLANEOUS	8.1	-Speed control		Electrical	Electrical
	8.2	-Working hydraulic pressure for attachments	Bar	210	210
	8.3	-Oil flow rate for attachments	L/min	52	52
	8.4	-Sound level at the driver's ear (according to DIN 12053)	dB (A)	78	78
	8.4	-Guaranteed sound power level in the environment LwA (according to Directive 2000/14/EC modified by Directive 2005/88/EC)	dB (A)	104	104





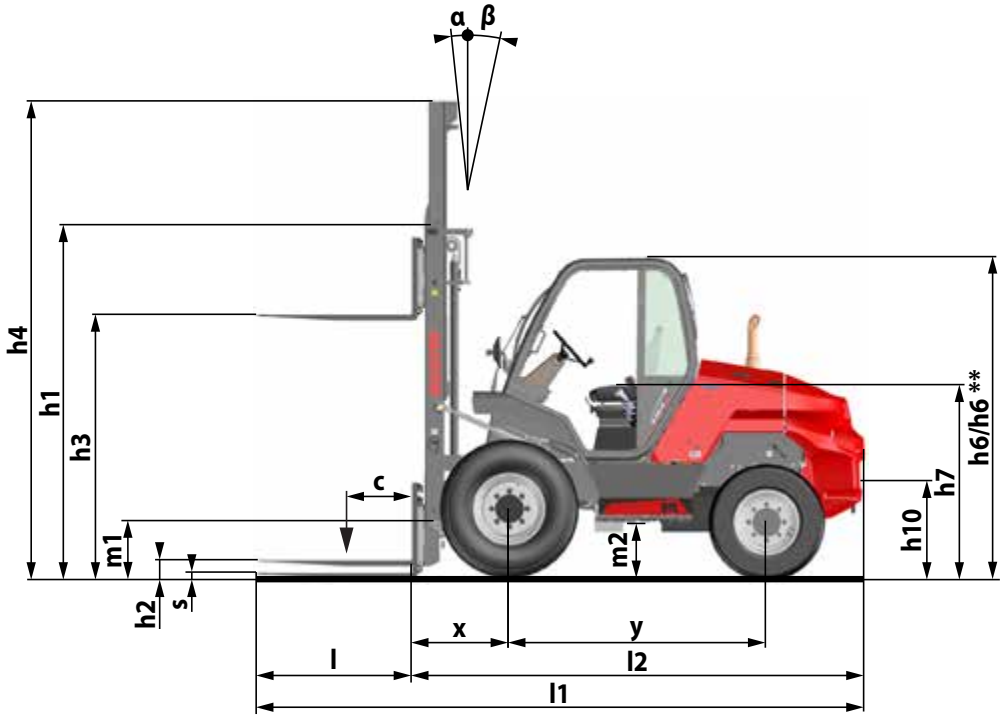
647835M3 (E-08/2024)
M.. D ST5 S1 EU

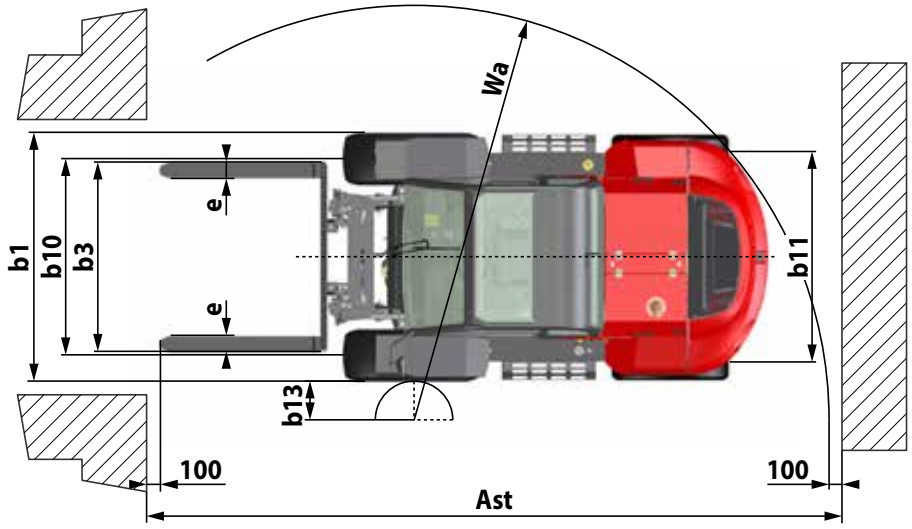
N.B.: The specifications given are not binding on the manufacturer and may be modified without notice.

				MANITOU	
DESIGNATION	1.1	-Manufacturer			
	1.2	-Model type		M50-2 D ST5 S1 EU	M50-4 D ST5 S1 EU
	1.3	-Propulsion: battery, diesel, gasoline, LPG, mains		Diesel	Diesel
	1.4	-Operator type: hand, pedestrian, standing, seated		Seated	Seated
	1.5	-Rated capacity/load on forks (basic capacity)	Q (t)	5	5
	1.6	-Center of gravity of load	c (mm)	600	600
	1.8	-Distance from load bearing surface to center of the front axle	x (mm)	773	773
	1.9	-Wheelbase	y (mm)	2060	2120
WEIGHT	2.1	-Weight of truck in working order	kg	8275	8325
	2.2	-Front axle load (laden)	kg	11615	11520
	2.2.1	-Rear axle load (laden)	kg	1660	1805
	2.3	-Front axle load (unladen)	kg	3285	3285
	2.3.1	-Rear axle load (unladen)	kg	4990	5040
RUNNING GEAR	3.1	-Wheel equipment bands (V), super-elastic (SE), pneumatic (L)		L	L
	3.2	-Tire size, front	" or mm	18-19,5 18PR A224	18-22,5 MPT-06
	3.3	-Tire size, rear	" or mm	10R17,5 G291 GY	340/80 R18 143A8 A580
	3.5	-Number of front wheels (x = drive wheel)		2x	2x
	3.5.1	-Number of rear wheels (x = drive wheel)		2	2x
	3.6	-Track width, front (middle of wheels)	b10 (mm)	1600	1620
	3.7	-Track width, rear (middle of wheels)	b11 (mm)	1640	1740
DIMENSIONS	4.1	-Mast tilt, forward	α (°)	15	15
	4.1.1	-Mast tilt, backward	β (°)	15	15
	4.2	-Height of mast, lowered	h1 (mm)	2870	2910
	4.3	-Normal free lift	h2 (mm)	-	-
	4.4	-Lift height	h3 (mm)	3700	3700
	4.5	-Height of mast, extended	h4 (mm)	4775	4815
	4.7	-Height of overhead guard, standard / cab	h6 (mm)	2440	2486
	4.7	-Height of overhead guard, lowered (Option)	h6 *(mm)	-	-
	4.7	-Height of air-conditioned cab (Option)	h6 **(mm)	2440	2486
	4.8	-Height of seat	h7 (mm)	1407	1455
	4.12	-Coupling height	h10 (mm)	685	735
	4.19	-Total length	l1 (mm)	4948	4948
	4.20	-Length to face of forks	l2 (mm)	3748	3748
	4.21	-Overall width	b1 (mm)	2057	2080
	4.22	-Fork cross-section	s (mm)	60	60
	4.22.1	-Width of fork arms	e (mm)	150	150
	4.22.2	-Length of forks	l (mm)	1200	1200
	4.23	-Fork carriage (according to DIN 15173 A/B)		4A	4A
	4.24	-Width of fork carriage (with load backrest)	b3 (mm)	1670	1670
	4.31	-Ground clearance below mast (unladen)	m1 (mm)	250	300
	4.32	-Ground clearance center of wheelbase (unladen)	m2 (mm)	377	426
	4.33	-Aisle width for 1000x1200 pallet crosswise	Ast (mm)	5640	6812
	4.34	-Aisle width for 800x1200 pallet crosswise	Ast (mm)	5640	6812
	4.35	-Turning radius	Wa (mm)	3465	4640
	4.36	-Inner turning radius	b13 (mm)	200	1650
PERFORMANCE	5.1	-Speed of travel laden	km/h	12	12
	5.1.1	-Speed of travel unladen	km/h	22	22
	5.2	-Lifting speed (laden)	m/s	0,4	0,4
	5.2.1	-Lifting speed (unladen)	m/s	0,4	0,4
	5.3	-Speed of lowering laden	m/s	0,5	0,5
	5.3.1	-Lowering speed (unladen)	m/s	0,4	0,4
	5.5	-Rated drawbar pull (laden)	daN	5000	9000
	5.7	-Gradeability (laden)	%	51	-
	5.7.1	-Gradeability (unladen)	%	-	-
	5.9	-Acceleration time (laden)	s	-	-
	5.9.1	-Acceleration time (unladen)	s	-	-
	5.10	-Service brake		Hydraulic power brake	Hydraulic power brake

647835M3 (E-08/2024)
M.. D ST5 S1 EU

ENGINE	7.1	-Engine manufacturer/Type		DEUTZ TCD 2,9	DEUTZ TCD 2,9
	7.2	-Engine power (according to ISO 1585)	kW	55	55
	7.3	-Rated speed	rpm	2300	2300
	7.3.1	-Maximum speed	rpm	3200	3200
	7.4	-Number of cylinders / Displacement	cm^3	4 / 2925	4 / 2925
	7.5	-Fuel consumption (according to VDI cycle)	ℓ/h	7,5	8,0
	7.6	-Emissions CO_2	kg/h	19,5	20,8
MISCELLANEOUS	8.1	-Speed control		Electrical	Electrical
	8.2	-Working hydraulic pressure for attachments	Bar	230	230
	8.3	-Oil flow rate for attachments	ℓ/min	52	52
	8.4	-Sound level at the driver's ear (according to DIN 12053)	dB (A)	78	78
	8.4	-Guaranteed sound power level in the environment LwA (according to Directive 2000/14/EC modified by Directive 2005/88/EC)	dB (A)	104	104



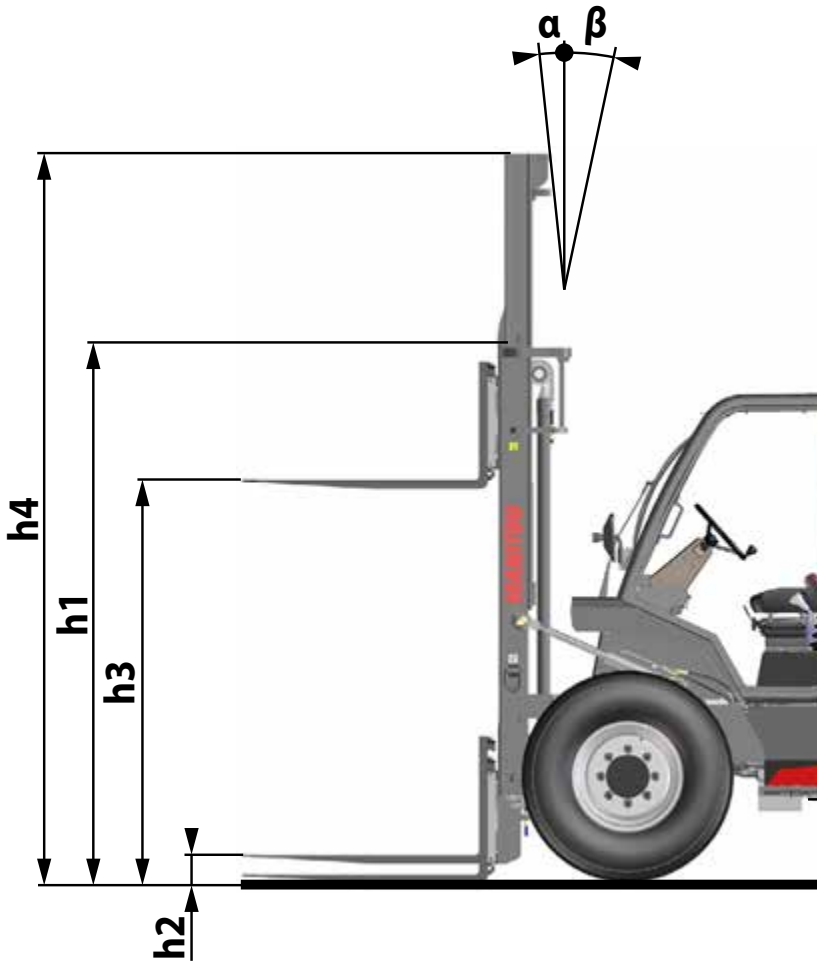


647835M3 (E-08/2024)
M.. D ST5 S1 EU

MAST CHARACTERISTICS AND LOAD CHARTS M26-2 ... / M26-4 ...

M26-2 ...	MAST	LIFT HEIGHT	FREE LIFT	HEIGHT OF MAST		TILTING STANDARD	
		h3 (mm)	h2 (mm)	h1 (mm)	h4 (mm)	α (°)	β (°)
DUPLEX COMPLETE VISIBILITY	3M70	3700	-	2696	4626	6	12
	4M50	4500	-	3136	5426	6	12
TRIPLEX WITHOUT FREE LIFT	5M50	5500	-	2966	6564	6	10
	7M00	7000	-	3636	8234	6	10
TRIPLEX FREE LIFT	4M30	4300	1580	2436	5234	6	12
	5M00	5000	1840	2696	5934	6	12
	6M50	6500	2530	3386	7434	6	12

M26-4 ...	MAST	LIFT HEIGHT	FREE LIFT	HEIGHT OF MAST		TILTING STANDARD	
		h3 (mm)	h2 (mm)	h1 (mm)	h4 (mm)	α (°)	β (°)
DUPLEX COMPLETE VISIBILITY	3M70	3700	-	2689	4619	6	12
	4M50	4500	-	3129	5419	6	12
TRIPLEX WITHOUT FREE LIFT	5M50	5500	-	2959	6557	6	10
	7M00	7000	-	3629	8227	6	10
TRIPLEX FREE LIFT	4M30	4300	1580	2429	5227	6	12
	5M00	5000	1840	2689	5927	6	12
	6M50	6500	2530	3379	7427	6	12



647835M3 (E-08/2024)
M.. D ST5 S1 EU

VALUES ON FORKS		VALUES WITH INTEGRAL SIDE-SHIFT CARRIAGE	
Height at max. capacity (mm)	Capacity at max. height D = 500mm (kg)	Height at max. capacity (mm)	Capacity at max. height D = 500mm (kg)
3700	2600	3700	2600
4500	2600	4500	2600

VALUES ON FORKS		VALUES WITH INTEGRAL SIDE-SHIFT CARRIAGE	
Height at max. capacity (mm)	Capacity at max. height D = 500mm (kg)	Height at max. capacity (mm)	Capacity at max. height D = 500mm (kg)
3700	2600	3700	2600
4500	2600	4500	2600
4800	1900	4700	1700

RATED CAPACITY →

CAPACITE NOMINALE
RATED CAPACITY
NENNKAPAZITÄT
CAPACIDAD NOMINAL
CAPACITÀ NOMINALE

kg

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

CAPACITES EFFECTIVES
ACTUAL CAPACITIES
EFFEKTIVE KAPAZITÄT
CAPACIDAD EFECTIVA
CAPACITÀ EFFETTIVA

SUIVANT NORME ISO 3691-1

Up to lift height →

1 - Jusqu'à hauteur de levée
Up to height of
Bis zur hubhöhe
Hasta altura de elevación
Sino ad altezza di sollevamento

mm

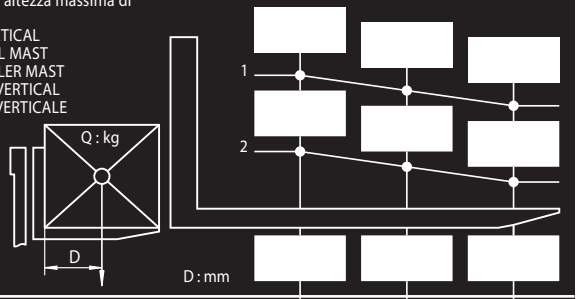
For maximum height of →

2 - Pour hauteur maximale de
For maximum height of
Für maximale Höhe
Para altura máxima de
Per altezza massima di

mm

VERTICAL MAST →

MAT VERTICAL
VERTICAL MAST
VERTIKALER MAST
MASTIL VERTICAL
RAMPA VERTICALE

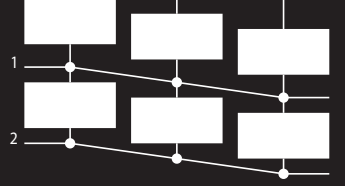


EQUIPMENT →

EQUIPEMENT
ATTACHMENT
ZUBEHÖR
EQUIPO
ATTREZZATURA

ACTUAL CAPACITIES →

CAPACITES EFFECTIVES
ACTUAL CAPACITIES
EFFEKTIVE KAPAZITÄT
CAPACIDAD EFECTIVA
CAPACITÀ EFFETTIVA



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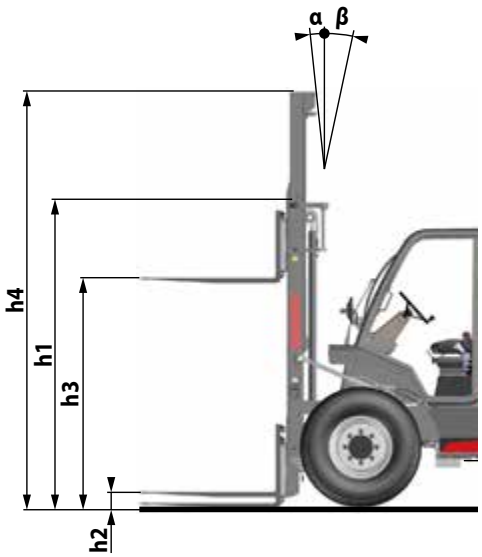
MAST CHARACTERISTICS AND LOAD CHARTS M30-2 ... / M30-4 ...

M30-2 ...	MAST	LIFT HEIGHT	FREE LIFT	HEIGHT OF MAST		TILTING STANDARD	
		h3 (mm)	h2 (mm)	h1 (mm)	h4 (mm)	α (°)	β (°)
DUPLEX COMPLETE VISIBILITY	3M70	3700	-	2696	4626	6	12
	4M50	4500	-	3136	5426	6	12
TRIPLEX WITHOUT FREE LIFT	5M50	5500	-	2966	6564	6	10
	7M00	7000					
TRIPLEX FREE LIFT	4M30	4300	1580	2436	5234	6	12
	5M00	5000	1840	2696	5934	6	12
	6M50	6500	2530	3386	7434	6	12
SIDE-SHIFT DUPLEX COMPLETE VISIBILITY	3M70	3700	-	2696	4626	6	12
	4M50	4500	-	3136	5426	6	12
SIDE-SHIFT TRIPLEX FREE LIFT	5M00	5000	1840	2696	5934	6	12
	6M50	6500	2530	3386	7434	6	12

M30-4 ...	MAST	LIFT HEIGHT	FREE LIFT	HEIGHT OF MAST		TILTING STANDARD	
		h3 (mm)	h2 (mm)	h1 (mm)	h4 (mm)	α (°)	β (°)
DUPLEX COMPLETE VISIBILITY	3M70	3700	-	2689	4619	6	12
	4M50	4500	-	3129	5419	6	12
TRIPLEX WITHOUT FREE LIFT	5M50	5500	-	2959	6557	6	10
TRIPLEX FREE LIFT	4M30	4300	1573	2429	5227	6	12
	5M00	5000	1833	2689	5927	6	12
	6M50	6500	2523	3379	7427	6	12
SIDE-SHIFT DUPLEX COMPLETE VISIBILITY	3M70	3700	-	2696	4626	6	12
	4M50	4500	-	3136	5426	6	12
SIDE-SHIFT TRIPLEX FREE LIFT	4M30	4300	1580	2436	5234	6	12
	5M00	5000	1840	2696	5934	6	12
	6M50	6500	2530	3386	7434	6	12
SIDE-SHIFT TRIPLEX WITHOUT FREE LIFT	6M70	6700	-	3519	7917	6	12



647835M3 (E-08/2024)
M.. D ST5 S1 EU

VALUES ON FORKS		VALUES WITH INTEGRAL SIDE-SHIFT CARRIAGE	
Height at max. capacity (mm)	Capacity at max. height D = 500mm (kg)	Height at max. capacity (mm)	Capacity at max. height D = 500mm (kg)
3700	3000	3700	3000
4500	3000	4100	2600
4300	1600	4000	1600
4000	2750	4000	2750
4000	1600	4000	1600
		Not applicable	Not applicable
4200	2700	Not applicable	Not applicable
		Not applicable	Not applicable
		Not applicable	Not applicable

VALUES ON FORKS		VALUES WITH INTEGRAL SIDE-SHIFT CARRIAGE	
Height at max. capacity (mm)	Capacity at max. height D = 500mm (kg)	Height at max. capacity (mm)	Capacity at max. height D = 500mm (kg)
3700	3000	3700	3000
4500	3000	4500	3000
4200	2000	4200	1500
4300	3000	4300	3000
		4100	1600
		4300	500
3700	3000	Not applicable	Not applicable
4500	3000	Not applicable	Not applicable
		Not applicable	Not applicable
		Not applicable	Not applicable
4500	800	Not applicable	Not applicable
		Not applicable	Not applicable
		Not applicable	Not applicable

RATED CAPACITY →

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

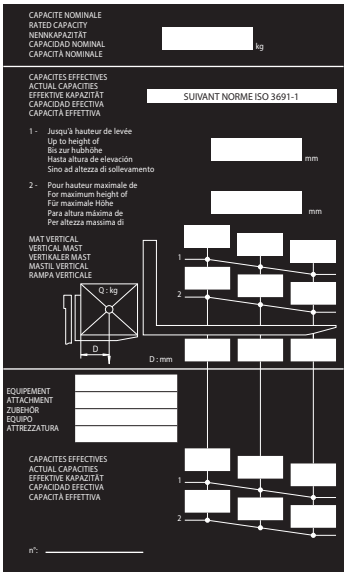
Up to lift height →

For maximum height of →

VERTICAL MAST →

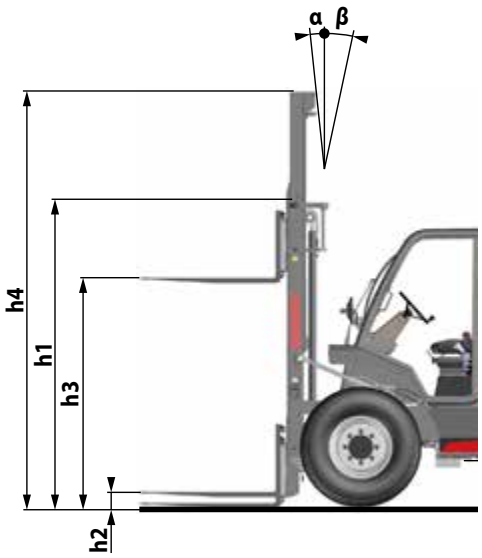
EQUIPMENT →

ACTUAL CAPACITIES →



M40-2 ...	MAST	LIFT HEIGHT	FREE LIFT	HEIGHT OF MAST		TILTING STANDARD	
		h3 (mm)	h2 (mm)	h1 (mm)	h4 (mm)	α (°)	β (°)
DUPLEX COMPLETE VISIBILITY	3M00	3000	-	2475	4025	15	15
	3M30	3300	-	2625	4325	15	15
	3M50	3500	-	2725	4525	15	15
	3M70	3700	-	2825	4725	15	15
	4M00	4000	-	2975	5025	15	15
	4M50	4500	-	3225	5525	15	15
	5M00	5000	-	3475	6025	15	15
TRIPLEX FREE LIFT	3M70	3700	1255	2225	4725	15	15
	4M00	4000	1355	2325	5025	15	15
	4M30	4300	1455	2425	5325	15	15
	4M50	4500	1530	2500	5525	15	15
	4M70	4700	1590	2560	5725	15	15
	5M00	5000	1705	2675	6025	10	15
	5M50	5500	1855	2825	6525	10	15
	6M00	6000	2030	3000	7025	10	15
SIDE-SHIFT DUPLEX COMPLETE VISIBILITY	3M70	3700	-	2825	4725	15	15
	4M50	4500	-	3225	5525	15	15
SIDE-SHIFT TRIPLEX FREE LIFT	4M70	4700	1590	2560	5725	15	15
	6M00	6000	2030	3000	7025	15	15

M40-4 ...	MAST	LIFT HEIGHT	FREE LIFT	HEIGHT OF MAST		TILTING STANDARD	
		h3 (mm)	h2 (mm)	h1 (mm)	h4 (mm)	α (°)	β (°)
DUPLEX COMPLETE VISIBILITY	3M00	3000	-	2520	4070	15	15
	3M30	3300	-	2670	4370	15	15
	3M50	3500	-	2770	4570	15	15
	3M70	3700	-	2870	4770	15	15
	4M00	4000	-	3020	5070	15	15
	4M50	4500	-	3270	5570	15	15
	5M00	5000	-	3520	6070	15	15
TRIPLEX WITHOUT FREE LIFT	6M70	6700	-	3365	7824	40	10
TRIPLEX FREE LIFT	3M70	3700	1255	2270	4770	15	15
	4M00	4000	1355	2370	5070	15	15
	4M30	4300	1455	2470	5370	15	15
	4M50	4500	1530	2545	5570	15	15
	4M70	4700	1590	2605	5770	15	15
	5M00	5000	1705	2720	6070	10	15
	5M50	5500	1855	2870	6570	10	15
	6M00	6000	2030	3045	7070	10	15
SIDE-SHIFT DUPLEX COMPLETE VISIBILITY	3M70	3700	-	2825	4725	15	15
	4M50	4500	-	3225	5525	15	15
SIDE-SHIFT TRIPLEX FREE LIFT	4M70	4700	1590	2560	5725	15	15
	6M00	6000	2030	3000	7025	15	15



647835M3 (E-08/2024)
M.. D ST5 S1 EU

VALUES ON FORKS		VALUES WITH INTEGRAL SIDE-SHIFT CARRIAGE	
Height at max. capacity (mm)	Capacity at max. height D = 500mm (kg)	Height at max. capacity (mm)	Capacity at max. height D = 500mm (kg)
3000	4000	3000	4000
3300	4000	3300	4000
3500	4000	3500	4000
3700	4000	3700	4000
4000	4000	4000	4000
4500	4000	4200	3900
5000	4000	4000	3600
3700	4000		
4000	4000		
4300	4000		
4500	4000	3500	3650
4200	3000	4200	3650
4500	2500	3300	2500
3700	4000	Not applicable	Not applicable
4500	4000	Not applicable	Not applicable
		Not applicable	Not applicable
		Not applicable	Not applicable

VALUES ON FORKS		VALUES WITH INTEGRAL SIDE-SHIFT CARRIAGE	
Height at max. capacity (mm)	Capacity at max. height D = 500mm (kg)	Height at max. capacity (mm)	Capacity at max. height D = 500mm (kg)
3000	4000	3000	4000
3300	4000	3300	4000
3500	4000	3500	4000
3700	4000	3700	4000
4000	4000	4000	4000
		Not applicable	Not applicable
3700	4000		
4000	4000		
4300	4000		
4500	4000	4000	3800
		3700	3100
		3700	2000
3700	4000	Not applicable	Not applicable
4500	4000	Not applicable	Not applicable
4200	3500	Not applicable	Not applicable
		Not applicable	Not applicable

RATED CAPACITY →

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

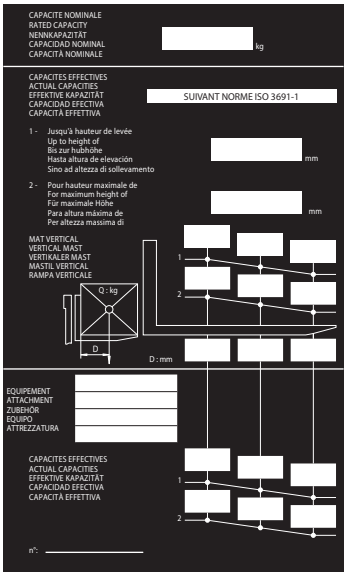
Up to lift height →

For maximum height of →

VERTICAL MAST →

EQUIPMENT →

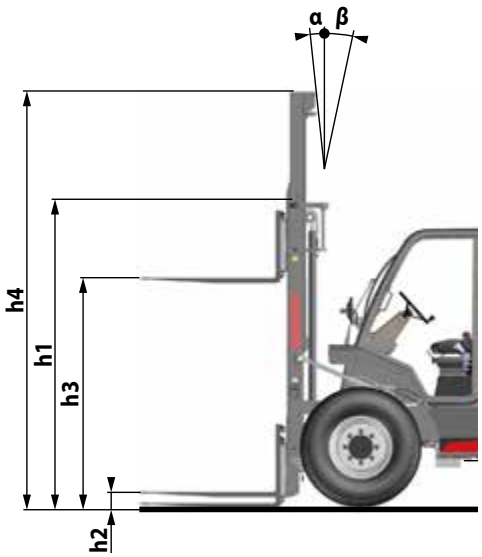
ACTUAL CAPACITIES →



647835M3 (E-08/2024)
M.. D ST5 S1 EU

M50-2 ...	MAST	LIFT HEIGHT	FREE LIFT	HEIGHT OF MAST		TILTING STANDARD	
		h3 (mm)	h2 (mm)	h1 (mm)	h4 (mm)	α (°)	β (°)
DUPLEX COMPLETE VISIBILITY	3M00	3000	-	2475	4025	15	15
	3M30	3300	-	2625	4325	15	15
	3M50	3500	-	2725	4525	15	15
	3M70	3700	-	2825	4725	15	15
	4M00	4000	-	2975	5025	15	15
	4M50	4500	-	3225	5525	15	15
	5M00	5000	-	3475	6025	15	15
TRIPLEX FREE LIFT	3M70	3700	1255	2225	4725	15	15
	4M00	4000	1355	2325	5025	15	15
	4M30	4300	1455	2425	5325	15	15
	4M50	4500	1530	2500	5525	15	15
	4M70	4700	1590	2560	5725	15	15
	5M00	5000	1705	2675	6025	10	15
	5M50	5500	1855	2825	6525	10	15
	6M00	6000	2030	3000	7025	10	15
SIDE-SHIFT DUPLEX COMPLETE VISIBILITY	3M70	3700	-	2825	4725	15	15
	4M50	4500	-	3225	5525	15	15
SIDE-SHIFT TRIPLEX FREE LIFT	4M70	4700	1590	2560	5725	15	15
	6M00	6000	2030	3000	7025	15	15

M50-4 ...	MAST	LIFT HEIGHT	FREE LIFT	HEIGHT OF MAST		TILTING STANDARD	
		h3 (mm)	h2 (mm)	h1 (mm)	h4 (mm)	α (°)	β (°)
DUPLEX COMPLETE VISIBILITY	3M00	3000	-	2520	4070	15	15
	3M30	3300	-	2670	4370	15	15
	3M50	3500	-	2770	4570	15	15
	3M70	3700	-	2870	4770	15	15
	4M00	4000	-	3020	5070	15	15
	4M50	4500	-	3270	5570	15	15
	5M00	5000	-	3520	6070	15	15
TRIPLEX FREE LIFT	3M70	3700	1255	2270	4770	15	15
	4M00	4000	1355	2370	5070	15	15
	4M30	4300	1455	2470	5370	15	15
	4M50	4500	1530	2545	5570	15	15
	4M70	4700	1590	2605	5770	15	15
	5M00	5000	1705	2720	6070	10	15
	5M50	5500	1855	2870	6570	10	15
	6M00	6000	2030	3045	7070	10	15
SIDE-SHIFT DUPLEX COMPLETE VISIBILITY	3M70	3700	-	2825	4725	15	15
	4M50	4500	-	3225	5525	15	15
SIDE-SHIFT TRIPLEX FREE LIFT	4M70	4700	1590	2560	5725	15	15
	6M00	6000	2030	3000	7025	15	15



647835M3 (E-08/2024)
M.. D ST5 S1 EU

VALUES ON FORKS		VALUES WITH INTEGRAL SIDE-SHIFT CARRIAGE	
Height at max. capacity (mm)	Capacity at max. height D = 600mm (kg)	Height at max. capacity (mm)	Capacity at max. height D = 600mm (kg)
3000	5000	3000	4700
3300	5000	3300	4700
3500	5000	3500	4700
3700	5000	3700	4700
4000	5000	4000	4700
4000	4750	4000	4400
4000	3500		
3500	4800	3500	4550
		3500	4400
4000	4500		
4000	3500		
3700	2000	3700	3000
3700	2000	3700	1600
		3200	250
3700	5000	Not applicable	Not applicable
4000	4800	Not applicable	Not applicable
3300	2100	Not applicable	Not applicable
		Not applicable	Not applicable

VALUES ON FORKS		VALUES WITH INTEGRAL SIDE-SHIFT CARRIAGE	
Height at max. capacity (mm)	Capacity at max. height D = 600mm (kg)	Height at max. capacity (mm)	Capacity at max. height D = 600mm (kg)
3000	5000	3000	4700
3300	5000	3300	4700
3500	5000	3500	4700
3700	5000	3700	4700
4000	5000	4000	4700
4000	3600	4000	4000
4000	2200	4000	3800
		3000	4500
3800	4500		
4000	4350	4000	4100
4000	3500	4000	3600
4000	2800	4000	2100
4000	1800	4000	2000
4000	900	4000	900
		Not applicable	Not applicable
3800	4100	Not applicable	Not applicable
3300	3000	Not applicable	Not applicable
		Not applicable	Not applicable

RATED CAPACITY →

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

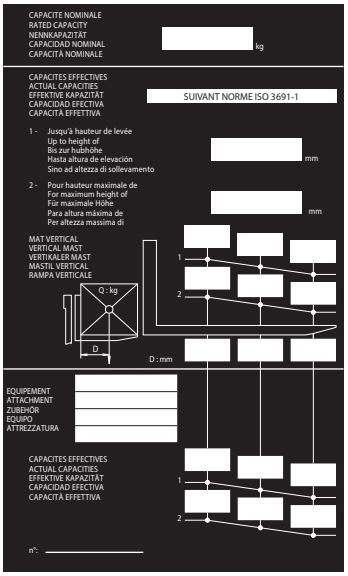
Up to lift height →

For maximum height of →

VERTICAL MAST →

EQUIPMENT →

ACTUAL CAPACITIES →



647835M3 (E-08/2024)
M.. D ST5 S1 EU

M26-2 D ST5 S1 EU		PRESSURE (bar)	LOAD PER TIRE (kg)			
			FRONT UNLADEN	FRONT (LADEN)	REAR (UNLADEN)	REAR (LADEN)
ALLIANCE	405/70-20 14PR 149B A-323	3,5	1250	3450		
BKT	15.5/80-24 AS 504 16PR TL	4	1250	3450		
CONTINENTAL	14.5R20 18PR 143G/J MPT80 TL	3,5	1250	3450		
MICHELIN	380/75 R20 148A8 148B XMCL TL	4	1250	3450		
ALLIANCE	10.5-18 MPT 317 12PR 130G	4,5			1550	650
GOODYEAR	235/75R17.5 132/130 M KMAX S	8			1550	650

M30-2 D ST5 S1 EU		PRESSURE (bar)	LOAD PER TIRE (kg)			
			FRONT UNLADEN	FRONT (LADEN)	REAR (UNLADEN)	REAR (LADEN)
ALLIANCE	405/70-20 14PR 149B A-323	3,5	1100	3750		
BKT	15.5/80-24 AS 504 16PR TL	4	1100	3750		
CONTINENTAL	14.5R20 18PR 143G/J MPT80 TL	3,5	1100	3750		
MICHELIN	380/75 R20 148A8 148B XMCL TL	4	1100	3750		
OTR	16/70-20 STABILIZER 10PR TL	3,5	1100	3750		
ALLIANCE	10.5-18 MPT 317 12PR 130G	4,5			1850	700
GOODYEAR	10R17.5 G 291 134/132 M TL	5,5			1850	700
OTR	10.5/80-18 STABILIZER 10PR TL	3,7			1850	700

		PRESSURE (bar)	LOAD (kg)	GROUND CONTACT PRESSURE (kg/cm2)		GROUND CONTACT AREA (cm2)	
				HARD GROUND	SOFT GROUND	HARD GROUND	SOFT GROUND
ALLIANCE	405/70-20 14PR 149B A-323	3,5	1100	5,48	1,67	194	647
			1250	5,71	1,70	212	724
			3450	7,61	2,55	442	1310
			3750	7,83	2,67	471	1375
	10.5-18 MPT 317 12PR 130G	4,5	650				
			700				
			1550				
			1850				
BKT	15.5/80-24 AS 504 16PR TL	4	1100				
			1250				
			3450				
			3750				
CONTINENTAL	14.5R20 18PR 143G/J MPT80 TL	3,5	1100	1,77	0,89	620	1240
			1250	1,94	0,97	643	1286
			3450	3,33	1,67	1031	2062
			3750	3,44	1,72	1090	2180
GOODYEAR	235/75R17.5 132/130 M KMAX S	8	650				
			1550				
	10R17.5 G 291 134/132 M TL	5,5	700	6,31	4,40	111	159
			1850	7,23	5,47	256	338
MICHELIN	380/75 R20 148A8 148B XMCL TL	4	1100				
			1250				
			3450				
			3750				
OTR	16/70-20 STABILIZER 10PR TL	3,5	1100				
			3750				
	10.5/80-18 STABILIZER 10PR TL	3,7	700				
			1850				

647835M3 (E-08/2024)
M.. D ST5 S1 EU

M26-4 D ST5 S1 EU		PRESSURE (bar)	LOAD PER TIRE (kg)			
			FRONT UNLADEN	FRONT (LADEN)	REAR (UNLADEN)	REAR (LADEN)
ALLIANCE	405/70-20 14PR 149B A-323	3,5	1100	3300		
BKT	15.5/80-24 AS 504 16PR TL	4	1100	3300		
MICHELIN	380/75 R20 148A8 148B XMCL TL	4	1100	3300		
ALLIANCE	10.5-18 MPT 317 12PR 130G	4,5			1700	800

M30-4 D ST5 S1 EU		PRESSURE (bar)	LOAD PER TIRE (kg)			
			FRONT UNLADEN	FRONT (LADEN)	REAR (UNLADEN)	REAR (LADEN)
ALLIANCE	405/70-20 14PR 149B A-323	3,5	1050	3750		
BKT	15.5/80-24 AS 504 16PR TL	4	1050	3750		
MICHELIN	380/75 R20 148A8 148B XMCL TL	4	1050	3750		
OTR	16/70-20 STABILIZER 10PR TL	3,5	1050	3750		
CAMSO	13.00-24 TLH 592S		1050	3750		
CAMSO	400/80-24 MPT753	5	1050	3750		
ALLIANCE	10.5-18 MPT 317 12PR 130G	4,5			1900	750
OTR	10.5/80-18 STABILIZER 10PR TL	3,7			1900	750
CAMSO	36X14-20 SKS 792S				1900	750
CAMSO	340/80-18 143 A8 MPT 753	3,2			1900	750

		PRESSURE (bar)	LOAD (kg)	GROUND CONTACT PRESSURE (kg/cm2)		GROUND CONTACT AREA (cm2)	
				HARD GROUND	SOFT GROUND	HARD GROUND	SOFT GROUND
ALLIANCE	405/70-20 14PR 149B A-323	3,5	1050	5,40	1,65	188	622
			1100	5,48	1,67	194	647
			3300	7,49	2,49	427	1278
			3750	7,83	2,67	471	1375
	10.5-18 MPT 317 12PR 130G	4,5	750				
			800				
			1700				
			1900				
BKT	15.5/80-24 AS 504 16PR TL	4	1050	1,9	540		
			1100	1,9	579		
			3300	2,4	1359		
			3750	2,5	1525		
MICHELIN	380/75 R20 148A8 148B XMCL TL	4	1050				
			1100				
			3300				
			3750				
OTR	16/70-20 STABILIZER 10PR TL	3,5	1050				
			3750				
	10.5/80-18 STABILIZER 10PR TL	3,7	750				
			1900				
CAMSO	13.00-24 TLH 592S		1050				
			3750				
	400/80-24 MPT753	5	1050				
			3750				
	36X14-20 SKS 792S		750				
			1900				
	340/80-18 143 A8 MPT 753	3,2	750				
			1900				

647835M3 (E-08/2024)
M.. D ST5 S1 EU

M40-2 D ST5 S1 EU		PRESSURE (bar)	LOAD PER TIRE (kg)			
			FRONT UNLADEN	FRONT (LADEN)	REAR (UNLADEN)	REAR (LADEN)
ALLIANCE	18-19.5 224 18PR	7,25	1300	4550		
MICHELIN	18R19-5 XF TL	6,5	1300	4550		
OTR	18/22.5 STABILIZER 16PR TL	3,5	1300	4550		
GOODYEAR	235/75R17.5 132/130 M KMAX S	9,4			2150	900
OTR	12.5/80-18 STABILIZER 10PR TL	3,7			2150	900

M50-2 D ST5 S1 EU		PRESSURE (bar)	LOAD PER TIRE (kg)			
			FRONT UNLADEN	FRONT (LADEN)	REAR (UNLADEN)	REAR (LADEN)
ALLIANCE	18-19.5 224 18PR	7,25	1650	5800		
MICHELIN	18R19-5 XF TL	6,5	1650	5800		
OTR	18/22.5 STABILIZER 16PR TL	3,5	1650	5800		
GOODYEAR	235/75R17.5 132/130 M KMAX S	9,4			2500	850
OTR	12.5/80-18 STABILIZER 10PR TL	3,7			2500	850

		PRESSURE (bar)	LOAD (kg)	GROUND CONTACT PRESSURE (kg/cm2)		GROUND CONTACT AREA (cm2)	
				HARD GROUND	SOFT GROUND	HARD GROUND	SOFT GROUND
ALLIANCE	18-19.5 224 18PR	7,25	1300				
			1650				
			4550				
			5800				
GOODYEAR	235/75R17.5 132/130 M KMAX S	9,4	850				
			900				
			2150				
			2500				
MICHELIN	18R19-5 XF TL	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
OTR	18/22.5 STABILIZER 16PR TL	3,5	1300				
			1650				
			4550				
			5800				
OTR	12.5/80-18 STABILIZER 10PR TL	3,7	850				
			900				
			2150				
			2500				

647835M3 (E-08/2024)
M.. D ST5 S1 EU

M40-4 D ST5 S1 EU		PRESSURE (bar)	LOAD PER TIRE (kg)			
			FRONT UNLADEN	FRONT (LADEN)	REAR (UNLADEN)	REAR (LADEN)
MICHELIN	18R22-5 XF TL	5,5	1300	4500		
MITAS	480/65-22.5 IND 16PR/163A8 MPT-06 TL	4,5	1300	4500		
OTR	18/22.5 STABILIZER 16PR TL	3,5	1300	4500		
BKT	15.5/80-24 AS 504 16PR TL	4	1300	4500		
CAMSO	13.00-24 TLH 592S		1300	4500		
CAMSO	400/80-24 MPT753	5	1300	4500		
MICHELIN	340/80 R18 143A8/143B IND TL XMCL	3,2			2150	1000
OTR	12.5/80-18 STABILIZER 10PR TL	3,7			2150	1000
ALLIANCE	340/80R18 IND 143A8 A580	3,2			2150	1000
CAMSO	340/80-20 144 A8 MPT 753	3,2			2150	1000
CAMSO	340/80-18 143 A8 MPT 753	3,2			2150	1000

M50-4 D ST5 S1 EU		PRESSURE (bar)	LOAD PER TIRE (kg)			
			FRONT UNLADEN	FRONT (LADEN)	REAR (UNLADEN)	REAR (LADEN)
MICHELIN	18R22-5 XF TL	5,5	1650	5750		
MITAS	480/65-22.5 IND 16PR/163A8 MPT-06 TL	4,5	1650	5750		
OTR	18/22.5 STABILIZER 16PR TL	3,5	1650	5750		
MICHELIN	340/80 R18 143A8/143B IND TL XMCL	3,2			2500	900
OTR	12.5/80-18 STABILIZER 10PR TL	3,7			2500	900
ALLIANCE	340/80R18 IND 143A8 A580	3,2			2500	900

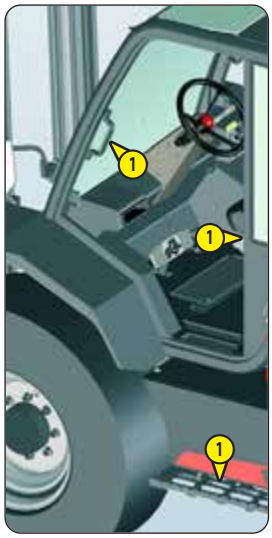
		PRESSURE (bar)	LOAD (kg)	GROUND CONTACT PRESSURE (kg/cm2)		GROUND CONTACT AREA (cm2)	
				HARD GROUND	SOFT GROUND	HARD GROUND	SOFT GROUND
MICHELIN	18R22-5 XF TL	5,5	1300	1,66	0,77	787	1697
			1650	1,94	0,90	836	1803
			4500	3,37	1,56	1282	2766
			5750	3,68	1,71	1560	3366
	340/80 R18 143A8/143B IND TL XMCL	3,2	900				
			1000				
			2150				
			2500				
MITAS	480/65-22.5 IND 16PR/163A8 MPT-06 TL	4,5	1300				
			1650				
			4500				
			5750				
OTR	18/22.5 STABILIZER 16PR TL	3,5	1300				
			1650				
			4500				
			5750				
	12.5/80-18 STABILIZER 10PR TL	3,7	900				
			1000				
			2150				
			2500				
BKT	15.5/80-24 AS 504 16PR TL	4	1300				
			4500				
CAMSO	13.00-24 TLH 592S		1300				
			4500				
	400/80-24 MPT753	5	1300				
			4500				
	340/80-20 144 A8 MPT 753	3,2	1000				
			2150				
	340/80-18 143 A8 MPT 753	3,2	1000				
			2150				

647835M3 (E-08/2024)
M.. D ST5 S1 EU

INSTRUMENTS AND CONTROLS

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

647835M3 (E-08/2024)
M.. D ST5 S1 EU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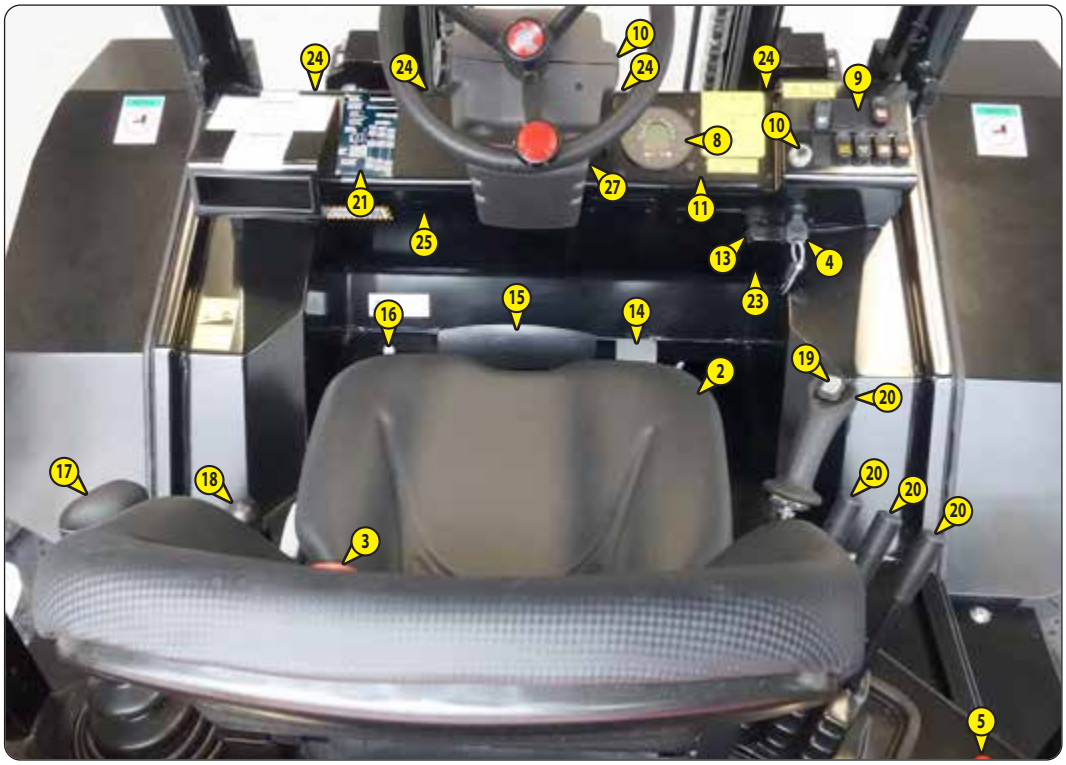
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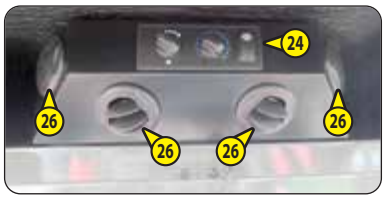
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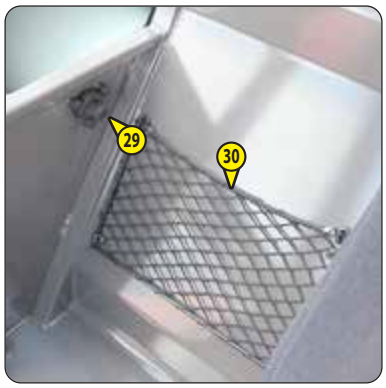
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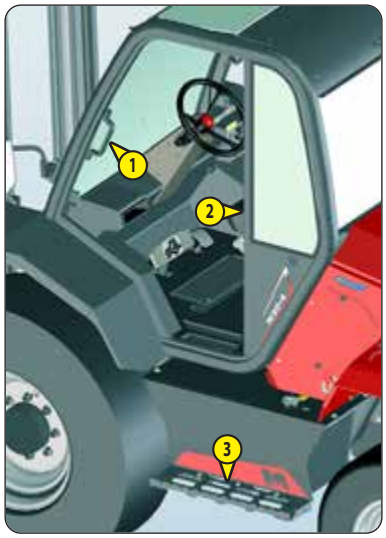
MANITOU

1 - DRIVER'S CAB ACCESS

- Face the driver's cab access to get in and out, and always use the three support points provided for this purpose.

1 - Left handle.
2 - Driver's cab pillar.
3 - Step.



2 - DRIVER'S SEAT

DRIVER'S SEAT, SKAI UPHOLSTERY (Standard)

DRIVER'S SEAT, FABRIC UPHOLSTERY (Option)

For increased comfort, adjust the seat to your requirements for a correct position in the driver's cab.

LONGITUDINAL ADJUSTMENT

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

SEAT HEIGHT ADJUSTMENT (first version only)

- Sit down correctly in the seat.
- Turn the knob 2 according to the desired height, clockwise to raise, counterclockwise to lower.

SEAT SUSPENSION ADJUSTMENT (first version)

- Make sure that the indicator 3 is in the green zone.

SEAT SUSPENSION ADJUSTMENT (second version)

- Adjust the operator's weight with knob 2.

BACKREST ANGLE ADJUSTMENT (first version)

- Hold the backrest, push the lever 4 backward and tilt the backrest to the desired position.

BACKREST ANGLE ADJUSTMENT (second version)

- Support the backrest, pull the lever 4 and tilt the backrest to the desired position.

⚠ IMPORTANT ⚠

If you do not support the backrest when making adjustments, it swings completely forward.

MAINTENANCE

- Keep your seat clean to ensure it operates efficiently
- Clean the cushions using a suitable product.
- Apply to a small hidden area first, to check the colour-fastness of covering.
- Avoid wetting the cushions.

first version

second version

DRIVER'S PNEUMATIC SEAT (Option)

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

SEAT WEIGHT AND HEIGHT ADJUSTMENT

Adjust the weight when the driver is sitting on the seat.

- Switch on lift truck ignition.
- Move the weight adjustment lever 1 upwards to increase the weight or downwards to reduce it.
- The min. and max. weight can be set by engaging the upper or lower limit switch.
- The driver's weight is correctly adjusted when the arrow is in the center of the indicator 2.
- The seat height can be adjusted within this zone.

N.B.: To avoid health problems, it is recommended that the weight setting is checked and adjusted before starting the lift truck.

⚠ IMPORTANT ⚠

To avoid damage, do not operate the compressor for more than 1 minute.

LONGITUDINAL ADJUSTMENT

- Unlock the locking lever 3.
- Slide the seat to the desired position.
- Release the lever and be sure it returns to the lock position.

LUMBAR ADJUSTMENT

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

- Turn the handle 4 upward to adjust the height and depth of the lumbar support on the upper part of the backrest.
- Turn the handle 4 downward to adjust the height and depth of the lumbar support of the lower part of the backrest.

BACKREST ANGLE ADJUSTMENT

- Support the backrest, pull the lever 5 and tilt the backrest to the desired position.

⚠ IMPORTANT ⚠

If you do not support the backrest when making adjustments, it swings completely forward.

MAINTENANCE

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

- The cushions do not need to be removed from the seat frame for cleaning.

⚠ IMPORTANT ⚠

A moving backrest increases the risk of an accident!

First check the resistance of the fabric on a small concealed area before using any fabric and plastic cleaner.

3 - SEAT 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 seat belt.

- Sit correctly on the seat.
- Check that the 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 - IGNITION SWITCH

This key switch has 5 positions:

- P - Not used.
- O - Ignition cut-off and engine stop.
- I - Ignition + preheat.
- II - Not used.
- III - Start-up and returns to position I as soon as the key is released.

first version

second version

5 - EMERGENCY STOP (Option)

⚠ IMPORTANT ⚠

Be ready for hydraulic movements suddenly stopping when you press this button.
If possible stop the lift truck before using the emergency stop button.

- OFF (locked): Press the button to stop the engine.
- ON (unlocked): Pull the button or turn it clockwise a quarter turn and release it.

first version

second version

6 - BATTERY CUT-OFF

For quickly disconnecting the battery when working on the electric circuit or when soldering, for example.

⚠ IMPORTANT ⚠

Operate the battery cut-off no less than 30 seconds after turning off the ignition with the ignition key.

7 - KEYPAD "EasyMANAGER" (Option)

A code must be created for the operator via the "EasyMANAGER" portal. For more information, contact your dealer.

OPERATION

BY ID CODE

- Switch on lift truck ignition, LED 1 comes on.
- Enter your ID code and confirm by pressing the "V" key.
- LED 2 comes on to confirm the operator's identification.
- Immediately start the lift truck, otherwise the identification process is canceled and LED 2 turns red.

N.B.: In case of an input error, LED 2 lights up red, press the "X"key, and wait 10 seconds before entering the correct identification code.

BY ID CARD

- Switch on lift truck ignition, LED 1 comes on.
- Present your ID card; an audible beep confirms that the card has been read.
- LED 2 comes on to confirm the operator's identification.
- Immediately start the lift truck, otherwise the identification process is canceled and LED 2 turns red.

647835M3 (E-08/2024)
M.. D ST5 S1 EU

INDICATOR LIGHTS

⚠ IMPORTANT ⚠

A permanently lit or flashing warning light, with the engine running, is the sign of an operating fault.

The lighting of some lamps may be accompanied by an audible signal. Do not ignore this warning, consult your dealer without delay.

If one of the warning lights comes on while the lift truck is in motion, stop the lift truck under the safest possible conditions.

When activating the electrical system of the lift truck, all the red and orange lamps and the panel's buzzer must light to indicate their good working order. If one of the red lights or the buzzer fails to operate, carry out the necessary repairs.

BATTERY CHARGE WARNING INDICATOR

If the indicator and buzzer come on when the lift truck is running, stop the engine immediately and determine the cause (electric circuit, alternator belt, alternator, etc.).

PARKING BRAKE INDICATOR LAMP

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

ENGINE FAULT INDICATOR

If the indicator light comes on or flashes while the lift truck is in operation, a diagnostic fault has been detected. The lift truck will operate in reduced mode. Consult your dealer as soon as possible.

SEAT BELT INDICATOR

The light accompanied by a buzzer indicates that the operator has not fastened the seat belt.

ENGINE STOP WARNING INDICATOR

If the indicator lights up or flashes when the lift truck is in operation, stop the engine immediately and consult your dealer.

HYDRAULIC RETURN FILTER CLOGGING FAULT INDICATOR LAMP

The indicator light and buzzer come on when the hydraulic return oil filter cartridge is clogged. Stop the engine and carry out the necessary repairs (◁ 3 - MAINTENANCE: FILTER CARTRIDGES AND BELTS).

NOTE: This lamp may come on when starting the forklift truck, and it should go off when the hydraulic fluid reaches its operating temperature.

AIR FILTER CLOGGING WARNING INDICATOR

The light and the buzzer come on when the air filter cartridge is clogged. Stop the engine and carry out the necessary repairs (◁ 3 - MAINTENANCE: FILTER CARTRIDGES AND BELTS).

647835M3 (E-08/2024)
M.. D ST5 S1 EU

ENGINE WATER LEVEL WARNING INDICATOR LAMP

If the indicator light and buzzer come on when the lift truck is in operation, stop the engine immediately and determine the cause (coolant level, possible leak, radiator, etc.).

BRAKE FLUID LEVEL WARNING INDICATOR

If the indicator and buzzer come on when the lift truck is in operation, stop the engine immediately and determine the cause (braking oil level, possible leak, etc.). If the brake fluid level is abnormal, consult your dealer.

ENGINE OIL PRESSURE WARNING INDICATOR LAMP

If the indicator light comes on when the lift truck is in operation, stop the engine immediately and look for the cause (◁ oil level in engine crankcase).

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

WATER IN FUEL PRE-FILTER WARNING INDICATOR LAMP

The indicator light will come on when water is detected in the fuel pre-filter. Stop the lift truck and carry out the necessary repairs.

EXHAUST PARTICLE FILTER MAINTENANCE INDICATOR

EXHAUST PARTICLE FILTER FAULT INDICATOR

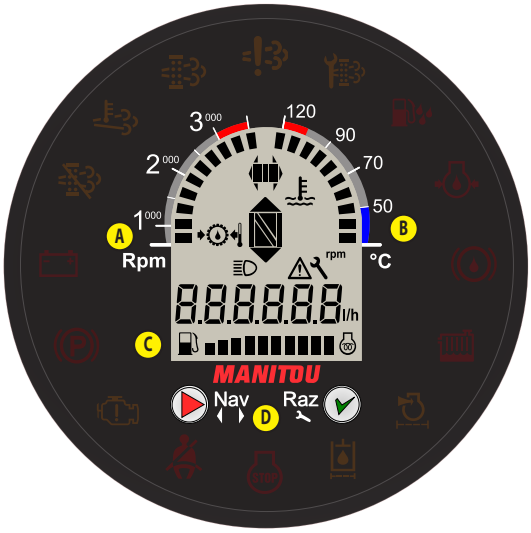
SOOT LEVEL INDICATOR

HIGH EXHAUST GAS TEMPERATURE INDICATOR

When illuminated, this indicator light indicates “LIFT TRUCK STATIONARY" EXHAUST REGENERATION in progress (◁ 3 - MAINTENANCE: OCCASIONAL MAINTENANCE).

NOT USED

MULTIFUNCTION SCREEN



FORWARD/NEUTRAL/REVERSE PICTOGRAM

◅ FORWARD/NEUTRAL/REVERSE SELECTOR

TURN SIGNAL PICTOGRAM

◅ LIGHTING, TURN SIGNAL AND HORN SWITCH

◅ SWITCHES

MAIN BEAM HEADLIGHTS PICTOGRAM

◅ SWITCHES

GENERAL FAULT PICTOGRAM

It is accompanied by an error code on the display.
Consult your dealer.

500H MAINTENANCE PICTOGRAM

It is accompanied by the time remaining or the time elapsed on the display (◅ 3 - MAINTENANCE).

NOTE: The maintenance key appears 50 hours before the deadline and generates an audible signal when the lift truck is started.

To display this time again, use the validation button .

ENGINE PREHEAT PICTOGRAM

Preheating is necessary. When the lift truck is switched on, the indicator light comes on and then goes off as soon as the preheat sequence has ended. Start the lift truck's engine.

GEARBOX OIL TEMPERATURE WARNING PICTOGRAM

Preheating is necessary. When the ignition is on, the pictogram is displayed and indicates that preheating is in progress. When the preheating indicator goes out, start the engine.

NOTE: The pictogram flashes when the engine block heater's plug is not plugged into the safety socket. ◅ DESCRIPTION (option): ENGINE BLOCK HEATER

GEARBOX OIL PRESSURE WARNING PICTOGRAM

It lights up and the buzzer sounds when there is an abnormal drop in gearbox pressure, in forward gear. Stop the engine and determine the cause (gearbox oil level, possible leak, radiator, etc.).

N.B.: Do not take the information into consideration when the lift truck has stopped or is idling.

A - TACHOMETER

⚠ IMPORTANT ⚠

Do not exceed the engine's maximum speed (◅ SPECIFICATIONS [7.3.1]).

B - ENGINE WATER TEMPERATURE

If the pictogram lights up and the buzzer sounds when the lift truck is running, stop the engine immediately and determine the cause (coolant level, possible leak, radiator, etc.).

N.B.: The intermittent flashing of all the LEDs, the indicator light and the buzzer indicates a malfunction. Consult your dealer.

C - FUEL LEVEL

If the pictogram lights up and the buzzer sounds when the lift truck is running, you have reached the reserve fuel level and your operating time is limited.

N.B.: The intermittent flashing of all the LEDs, the indicator light and the buzzer indicates a malfunction. Consult your dealer.

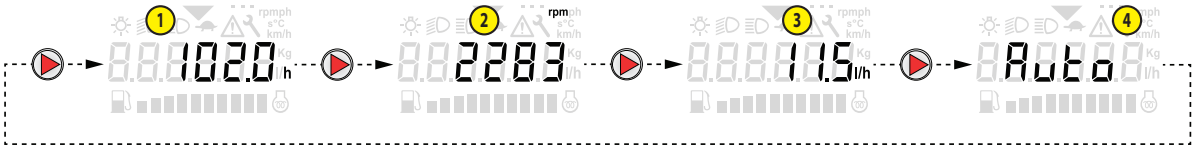
647835M3 (E-08/2024)
M.. D ST5 S1 EU

D - NAVIGATION

MENU SCROLL BUTTON

NOTE: By default, when the lift truck is started, the screen displays the last selection made by the operator.

- 1 - Hour meter (h)
- 2 - Rev counter (rpm)
- 3 - Current fuel consumption (l/h)
- 4 - Forward/reverse -> Rev counter (rpm)
  - Neutral -> Hour meter (h)



VALIDATION BUTTON, MAINTENANCE, ERROR CODES AND RESET

- 1 - Menu selected by the operator displayed

NO ERROR CODE

- 2 a - Time to 500H maintenance (h)

- To reset this maintenance, carry out the 500-hour maintenance (◅ 3 - MAINTENANCE).

- 3 a - Time to stationary regeneration of the particle filter (h)

- To reset this regeneration, carry out the occasional maintenance (◅ 3 - MAINTENANCE).

- 4 a - No error

WITH ERROR CODE(S)

- 2 b - Error (scroll through error codes in a loop or press ✓)

- Before contacting your dealer, check the fuses.

⚠ IMPORTANT ⚠

In order to resolve the problems with the lift truck, communicate the error code(s) to your dealer.

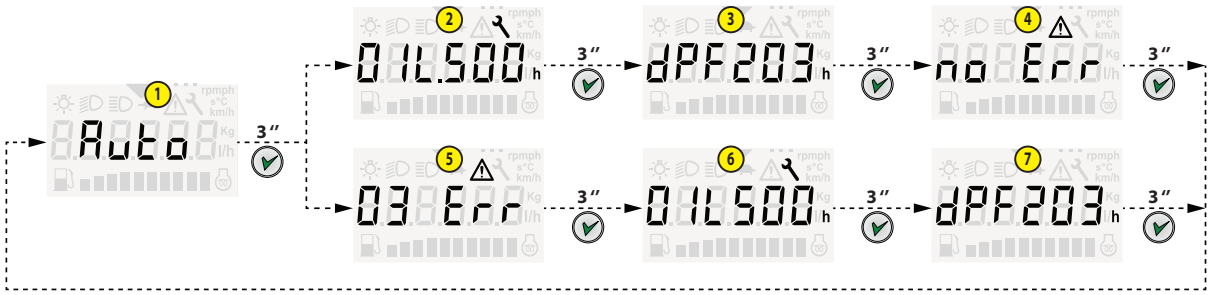
- 3 b - Time to 500H maintenance (h)

- To reset this maintenance, carry out the 500-hour maintenance (◅ 3 - MAINTENANCE).

- 4 b - Time to stationary regeneration of the particle filter (h)

- To reset this regeneration, carry out the occasional maintenance (◅ 3 - MAINTENANCE).

NOTE: The countdown from 700 hours to 301 hours displays "dpf - - -" and from 300 hours to 0 hours it displays the



actual time.

9 - SWITCHES

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

HAZARD WARNING LIGHTS

- 0 - Stop
- II - On (indicator light on).

HYDRAULIC MOVEMENT NEUTRALIZATION

- 0 - Stop
- II - On (indicator light on).

HYDRAULIC CIRCUIT DECOMPRESSION MODE

N.B.: The engine must be stopped and the switch in the off position.

- Sit down correctly in the driver's seat,
- Switch the machine on,
- Press the on/off switch successively (x3).

Certain hydraulic controls can then be used, for example:

- Lowering the forks carriage on the mast
- Changing attachments

REAR AXLE CLUTCH

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

- 0 - 2 Driving wheels
- II - 4 Driving wheels (indicator lamp on)

TRANSMISSION CUT-OFF

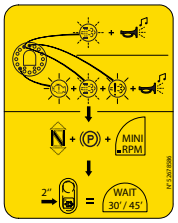
- 0 - Transmission cut-off on gear lever
- II - Transmission cut-off on gear lever and service brake pedal (indicator light on)

EXHAUST REGENERATION

- 0 - Stop
- II - On (indicator light on).

MANAGEMENT OF EXHAUST PARTICLE FILTER REGENERATION

SIGNALS	ACTIONS
Normal soot level	- Idling speed increases, indicating that automatic regeneration is in progress. - the fault indicator may come on. NOTE: It is preferable to wait for the automatic regeneration process to finish before removing the ignition key.
(*) + 1 short beep Moderate soot level	- Perform "lift truck stationary" regeneration (◁ MAINTENANCE). - the fault indicator may come on.
(*)+ + + 1 long beep High soot level	- Lift truck efficiency is reduced. - Perform "lift truck stationary" regeneration (◁ MAINTENANCE). - the fault indicator may come on.
(**)+ + STOP (*)+ 1 long beep Very high soot level	- Lift truck efficiency is reduced. **⚠ IMPORTANT ⚠** *Stop the lift truck and contact your dealer.*
(**)+ + + STOP (*)+ 1 long beep Particulate filter clogged	- The exhaust particle filter must be replaced. **⚠ IMPORTANT ⚠** *Stop the lift truck and contact your dealer.*



(*) Slow flashing
(**) Rapid flashing

647835M3 (E-08/2024)
M.. D ST5 S1 EU

FRONT WINDSHIELD WIPER AND WINDSHIELD WASHER FLUID

- 0 - Stop
- I - Front windshield wiper (indicator light on)
- II - Windshield washer (push)

REAR WINDSHIELD WIPER + ROOF WINDSHIELD WIPER (Option)

- 0 - Stop
- I - Rear windshield wiper (indicator light on)
- II - Roof windshield wiper (push)

ROTATING BEACON LIGHT OR FLASHING LIGHT (Option)

- 0 - Stop
- II - On (indicator light on).

FRONT WORKLIGHTS (Option)

- 0 - Stop
- II - On (indicator light on).

REAR WORKLIGHTS (Option)

- 0 - Stop
- II - On (indicator light on).

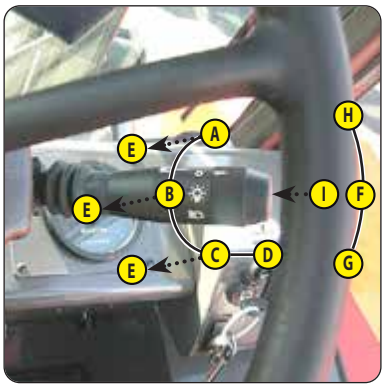
HEATING FAN (Option)

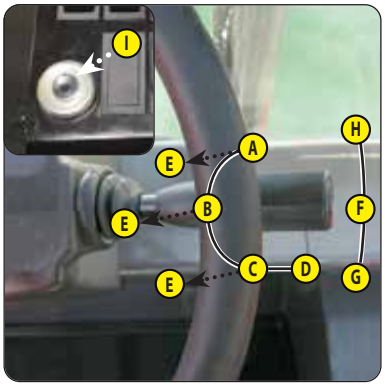
- 0 - Stop
- I - Speed 1 (indicator light on)
- II - Speed 2 (indicator light on)

10 - LIGHTING, HORN AND TURN SIGNALS (Depending on model)

The road lights can be used without the ignition key.

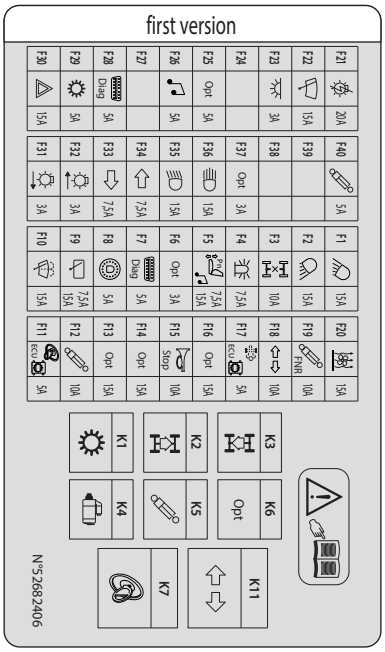
- A - Road lights off
- B - Front and rear side lights
- C - Dipped beam headlights
- D - Main beam headlights
- E - Headlight flasher (push)
- F - Turn signals off
- G - Right indicator lights
- H - Left indicator lights
- I - Horn (push)





11 - FUSES AND RELAYS IN THE CAB

- Remove access panel 1.
- Replace a blown fuse with a new fuse of the same quality and rating.
- Never use a repaired fuse.



FIRST VERSION

MINIFUSE

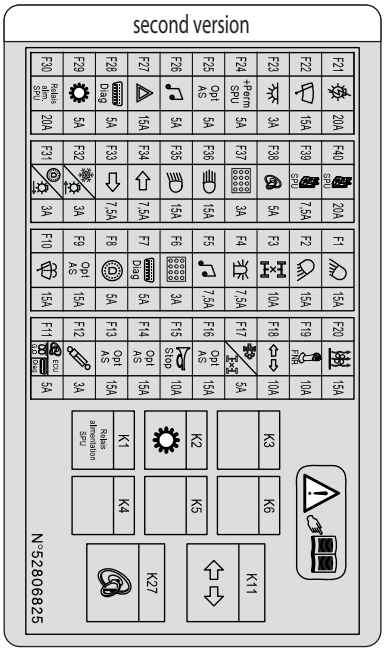
F1	**15 A**	Front worklights (Option)
F2	**15 A**	Rear worklights (Option)
F3	**10 A**	Rear axle clutch. M26-4 ... / M30-4 ... / M40-4 ... / M50-4 ...
F4	**7,5 A**	Rotating beacon light (Option)
F5	**7,5 A**	Car radio (Option)
	15 A	Car radio (Option) Pneumatic seat (Option)
F6	**3 A**	Keypad "EasyMANAGER" (Option)
F7	**5 A**	Diagnostics plug
F8	**5 A**	Control instruments panel
F9	**7,5 A**	Rear windshield wiper
	15 A	Rear windshield wiper Roof wiper (Option)
F10	**15 A**	Front windshield wiper Front windshield washer
F11	**5 A**	Fuel preheat Engine ECU F41 power supply
F12	**10 A**	Driver presence safety
F13	**15 A**	Free
F14	**15 A**	Free
F15	**10 A**	Audible alarm Stop switch
F16	**15 A**	Free
F17	**5 A**	Regeneration information
F18	**10 A**	Flashing unit
F19	**10 A**	Forward/neutral/reverse selector Forward/neutral/reverse power relay
F20	**15 A**	Ventilation/heating (Option)
F21	**20 A**	Lighting, horn and indicator lights switch
F22	**15 A**	Front windscreen wiper automatic return
F23	**3 A**	Roof light (Option)
F24	**3 A**	Free
F25	**5 A**	Free
F26	**5 A**	Car radio (Option)
F27	**3 A**	Free
F28	**5 A**	Diagnostics plug
F29	**5 A**	Transmission cut-off on gear lever
F30	**15 A**	Hazard warning lights
F31	**3 A**	Right sidelights Side marker lights indicator. Control panel illumination
F32	**3 A**	Left sidelights Air conditioning lighting (Option)
F33	**7,5 A**	Right indicator lights
F34	**7,5 A**	Left indicator lights
F35	**15 A**	Dipped beam headlights
F36	**15 A**	Main beam headlights
F37	**3A**	Anti-start
F38		Free
F39		Free
F40	**5A**	4th and 5th hydraulic line (Option)

RELAYS

K1		Transmission cut-off
K2		Forward gear
K3		Reverse gear Reversing sound alarm (Option)
K4		Start safety
K5		Driver presence safety
K6		Air conditioning (Option)
K7		General power supply
K11		Flashing unit

647835M3 (E-08/2024)
M.. D ST5 S1 EU

SECOND VERSION



MINIFUSE

F1	**15 A**	Front worklights (Option)
F2	**15 A**	Rear worklights (Option)
F3	**10 A**	Rear axle clutch. **M26-4 ... / M30-4 ... / M40-4 ... / M50-4 ...**
F4	**7,5 A**	Rotating beacon light (Option)
F5	**7,5 A**	Car radio +APC (Option)
F6	**3 A**	Keypad "EasyMANAGER" (Option) +APC
F7	**5 A**	Diagnostics plug
F8	**5 A**	Control instruments panel
F9	**7,5 A**	Rear windshield wiper
F10	**15 A**	Front windshield wiper
F11	**5 A**	Fuel preheat Engine ECU F41 power supply
F12	**3 A**	Relay power supply K2
F13	**15 A**	Option
F14	**15 A**	Option
F15	**10 A**	Audible alarm Stop switch
F16	**15 A**	Free
F17	**5 A**	Transmission cut-off switch Regeneration information
F18	**10 A**	Hazard warning lights + PERM Movement cut-off switch
F19	**10 A**	Forward/neutral/reverse selector
F20	**15 A**	Ventilation/heating (Option)
F21	**20 A**	Lighting, horn and indicator lights switch
F22	**15 A**	Front windscreen wiper automatic return
F23	**3 A**	Roof light (Option)
F24	**5 A**	Power supply +PERM SPU
F25	**5 A**	Free
F26	**5 A**	Car radio +PERM (Option)
F27	**3 A**	Hazard warning lights + APC
F28	**5 A**	Diagnostics plug
F29	**5 A**	Transmission cut-off on gear lever
F30	**20 A**	Power supply +PERM SPU
F31	**3 A**	Right sidelights Side marker lights indicator. Control panel illumination
F32	**3 A**	Left sidelights Air conditioning lighting (Option)
F33	**7,5 A**	Right indicator lights
F34	**7,5 A**	Left indicator lights
F35	**15 A**	Dipped beam headlights
F36	**15 A**	Main beam headlights
F37	**3A**	Keypad "EasyMANAGER" (Option) +PERM
F38	**5 A**	Immobilizer shunt
F39	**7,5 A**	Power supply +APC SPU
F40	**7,5 A**	Power supply +APC SPU

RELAYS

K1		Power supply +PERM SPU
K2		Hydraulic ground
K11		Flashing unit
K27		Power supply +APC

647835M3 (E-08/2024)
M.. D ST5 S1 EU

12 - FUSES AND RELAYS UNDER THE ENGINE HOOD

- Remove access panel 1.
- Remove the cover 2.
- Replace a blown fuse with a new fuse of the same quality and rating.
- Never use a repaired fuse.

FIRST VERSION

MINIFUSE

F41	5A	Engine diagnostics plug
F42		Free
F43		Free
F44		Free
F45	15A	Fuel pump
F46	30A	Fuel preheat

MAXIFUSE

F47	30A	Engine control unit power supply
F48	100A	Engine preheat
F49	80A	Overhead guard power supply

RELAYS

K21	Engine preheat
K23	Fuel pump

SECOND VERSION

MINIFUSE

F51	5A	Engine diagnostics plug
F52		Free
F53		Free
F54		Free
F55	15A	Fuel pump
F56	30A	Fuel preheat

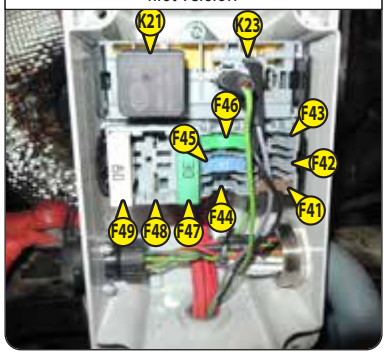
MAXIFUSE

F57	30A	Engine control unit power supply
F58	100A	Engine preheat
F59	80A	Cab power supply

RELAYS

K21	Engine preheat
K23	Fuel pump

first version



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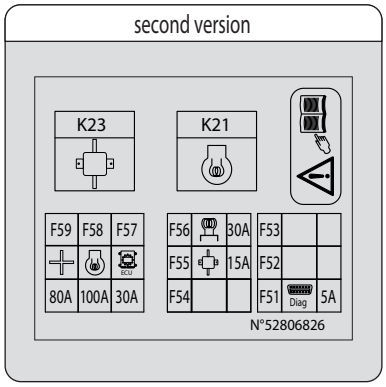


13 - DIAGNOSTIC PLUG

- Remove the protective casing to access the plug (depending on model).

647835M3 (E-08/2024)
M.. D ST5 S1 EU

14 - ACCELERATOR PEDAL

15 - SERVICE BRAKE PEDAL AND TRANSMISSION CUT-OFF

The pedal acts on the front wheels by means of a hydraulic brake system enabling the lift truck to be slowed down and stopped. Depending on the position of the transmission cut-off switch, it enables the transmission to be cut off during the free travel.

16 - DIFFERENTIAL LOCK PUSHBUTTON

STANDARD => M26-2 ... / M30-2 ... / M40-2 ... / M50-2 ...
OPTION => M26-4 ... / M30-4 ...

⚠ IMPORTANT ⚠

While the differential lock is engaged, always drive in a straight line and remain in first gear.

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

- Press the pushbutton and hold this position for as long as the differential lock is required.
- To disengage, simply remove the foot from the push-button that will automatically return to its initial position.

17 - GEAR LEVER AND TRANSMISSION CUT-OFF

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

CONDITION OF USE OF GEARBOX RATIOS

On lift trucks such as these, equipped with torque converters, it is not necessary to systematically set off in first gear and work up through the gears.

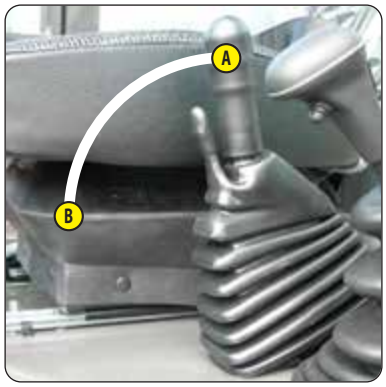
⚠ IMPORTANT ⚠

The gearbox ratio selection should be made carefully depending on the work to be performed.
A poor choice may result in the extremely rapid rise of the gearbox oil temperature through excessive slipping of the converter, which could lead to serious gearbox damage (it is essential to stop and change the working conditions if the gearbox oil temperature indicator light comes on).
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 gear (in 2nd instead of 3rd).

In general, we would advise you to use the following gears according to the nature of the work being carried out.

- ON THE ROAD: Set off in 3rd gear and change up to 4th if the conditions and state of the road permit it. In hilly areas, set off in 2nd gear and change up to 3rd if the conditions and state of the road permit it.
- WHEN HANDLING: Use 3rd gear. In confined spaces use 2nd gear.
- LOADING (picking-up with bucket, manure fork, etc.): Use 2nd gear.
- EARTH MOVING: Use 1st gear.

18 - PARKING BRAKE LEVER

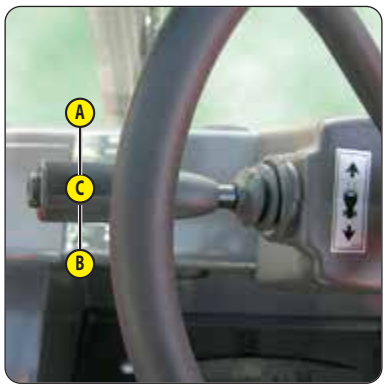


To prevent accidental loosening or release, the lever is fitted with safety locking.

- To apply the parking brake, pull the lever backward (position A).
- To loosen the parking brake, release and push the lever forward (position B).

N.B.: If the parking brake is released when the engine is stopped, the alarm sounds.

19 - FORWARD/NEUTRAL/REVERSE SELECTOR



FIRST VERSION

When changing the direction of travel, the lift truck should be traveling at slow speed and not accelerating.

In the neutral position, a mechanical lock prevents accidental engagement of forward or reverse gear.

- A - FORWARD: Lift slightly and push the lever forward.
- B - REVERSE: Lift slightly and pull the lever backward.
- C - NEUTRAL: The lever must be in neutral in order to start the lift truck.

N.B.: As an option, reversing lights and an acoustic reversing alarm indicate that the lift truck is running in reverse.

SAFETY FOR MOVING THE LIFT TRUCK

The operator must observe the following sequence to move the truck forward or backward:

- sit down correctly in the driver's seat,
- release the hand brake,
- engage forward or reverse gear.

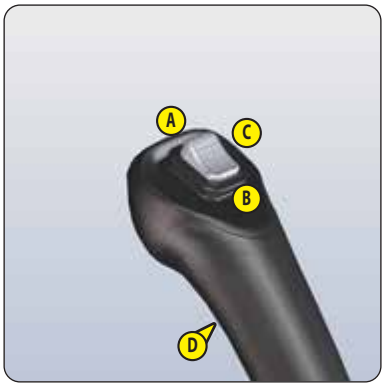
To stop the forklift truck, the following sequence must be observed:

- set the forward/reverse selector to neutral,
- apply the parking brake,
- get out of the lift truck.

If the operator exits the driver's cab with forward or reverse gear engaged: an alarm will sound.

- In the event of a continuous alarm, the operator may sit down again and continue moving forward or backward.
- In the event of a discontinuous alarm, the operator must sit down again, put the selector in neutral and select forward or reverse if he wishes to continue moving.

SECOND VERSION



When changing the direction of travel, the lift truck should be traveling at slow speed and not accelerating.

The forward/reverse selector must be in neutral in order to start the lift truck.

A - FORWARD GEAR

- Press the front of the switch.

B - REVERSE GEAR

- Press the back of the switch.

N.B.: A reversing alarm and a reversing light are available as an option.

C - NEUTRAL

- Lightly press the front or back of the switch.

SAFETY FOR MOVING THE LIFT TRUCK

Movement of the lift truck is only authorized if the operator is in the seat with the seat belt on.

To move the forklift truck, the operator must observe the following sequence:

- 1 - Sit down correctly in the driver's seat,
- 2 - Buckle the seat belt,
- 3 - Release the hand brake,
- 4 - Engage forward or reverse gear.

To stop the forklift truck, the operator must observe the following sequence:

- 1 - Set the forward/reverse selector to neutral,
- 2 - Apply the parking brake,
- 3 - Undo the seat belt,
- 4 - Get out of the lift truck.

If the operator leaves the driver's cab with forward or reverse gear in operation:

- The alarm emits 1 beep, the operator may sit down again and continue moving.
- If the alarm emits 2 beeps, the operator must sit back in the seat and reset the forward/reverse selector to neutral before continuing to move.

NOTA 1 : Depending on the model, a safety device on the seat belt fastener prevents movement. A beep signals it is in operation.

D- SWITCH NOT USED

⚠ IMPORTANT ⚠

If it malfunctions contact your dealer.

Do not try to modify the hydraulic pressure of the system.

ANY MODIFICATION INVALIDATES THE WARRANTY AND YOU WILL BE CRIMINALLY LIABLE IN THE EVENT OF AN ACCIDENT.

Use the hydraulic controls gently without jerking, to avoid incidents caused by shaking the lift truck.

M-26-2 ... / M26-4 ... / M-30-2 ... / M30-4 ...

A - LOAD LIFTING CONTROL LEVER

- Lever backwards to lift
- Lever forwards to lower

B - MAST TILTING CONTROL LEVER

- Lever backward to tilt backward
- Lever forward to tilt forward

N.B.: An optional balancing valve adaptation is available.

C - OPTION CONTROL LEVER

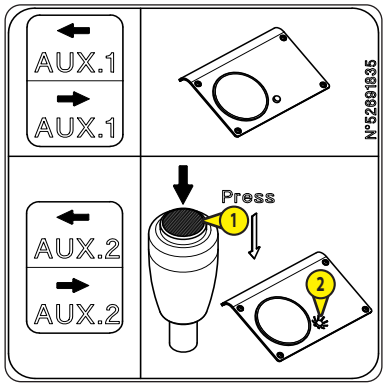
ATTACHMENT OPTION (AUX.1)

- Lever forward or backward

ADDITIONAL ATTACHMENT OPTION (AUX.2)

- Button 1 down and lever forward or backward

N.B.: If indicator 2 is on, it means that the additional attachment line is in use.



M-30-2 ... / M30-4 ...

C - OPTION CONTROL LEVER

MAST TRANSLATION OPTION (AUX.1)

⚠ IMPORTANT ⚠

Do not travel when the mast is tilted forward or backward as this may cause damage to the mast.

- Lever backward to move left
- Lever forward to move right

ADDITIONAL ATTACHMENT OPTION (AUX.2)

- Button 1 down and lever forward or backward

N.B.: If indicator 2 is on, it means that the additional attachment line is in use.

M40-2 ... / M40-4 ... / M50-2 ... / M50-4 ...

A - LOAD LIFTING CONTROL LEVER

- Lever backwards to lift
- Lever forwards to lower

B - MAST TILTING CONTROL LEVER

- Lever backward to tilt backward
- Lever forward to tilt forward

N.B.: An optional balancing valve adaptation is available.

C - OPTION CONTROL LEVER

MAST TRAVEL OPTION

⚠ IMPORTANT ⚠

Do not travel when the mast is tilted forward or backward as this may cause damage to the mast.

- Lever backward to move left
- Lever forward to move right

OPTIONAL ATTACHMENT

- Lever forward or backward

D - OPTION CONTROL LEVER

ADDITIONAL ATTACHMENT OPTION

- Lever forward or backward

647835M3 (E-08/2024)
M.. D ST5 S1 EU

21 - LOAD CHARTS

For your safety, and before handling any load, consult the load charts available in the driver's cab.

22 - LEVEL INDICATOR

Enables the operator to check that the lift truck is in the horizontal position.

23 - HEATER CONTROL (Option)

- A - 2-speed fan on/off
- B - Temperature setting
  - Turn the switch clockwise to increase the temperature.

N.B.: As a minimum, one cab heating vent must be open.

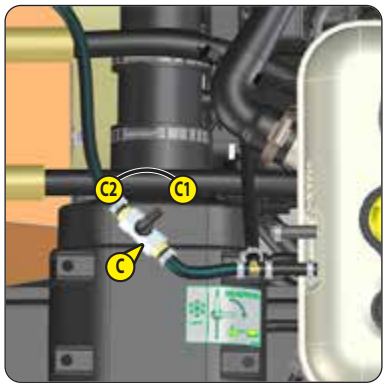
There is an optional EXTREME COLD adaptation.

IMPORTANT ⚠

Above 0 °C, the cooling system must be opened to avoid overheating and engine damage.

Below 0 °C, valve C in the closed position C1 allows the engine and cab heater to heat up quickly.

- C1 - Cooling system closed
- C2 - Cooling system open



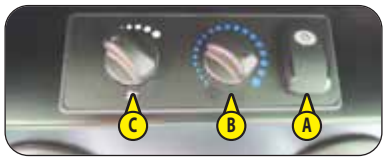
24 - WINDSHIELD DEFROSTER VENTS (Option)

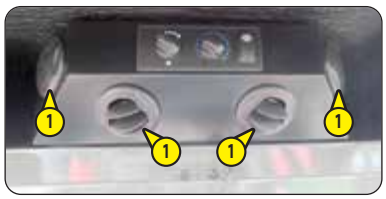
For optimum effectiveness, close the heating vents.

25 - HEATING VENTS (Option)

These swiveling heating vents, which can be shut off, allow you to direct and adjust the flow inside the cab.

26 - AIR CONDITIONING CONTROL (Option)





⚠ IMPORTANT ⚠

In winter, once a week, operate the air conditioning from time to time 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, perform servicing (◁ MAINTENANCE) or consult your dealer.
Never try to repair possible faults in the system, consult your dealer.

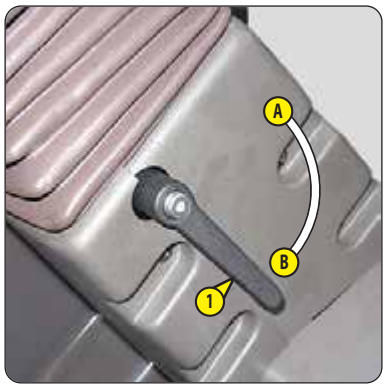
- A - On/Off for the air conditioning with indicator lamp
- B - Temperature setting
- C - Ventilation speed adjustment

CONDITIONS OF USE:

- The air conditioning only works:
  - If the engine is running.
  - If the ventilation is working
- 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.

27 - STEERING WHEEL ADJUSTMENT LEVER (Option)



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

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

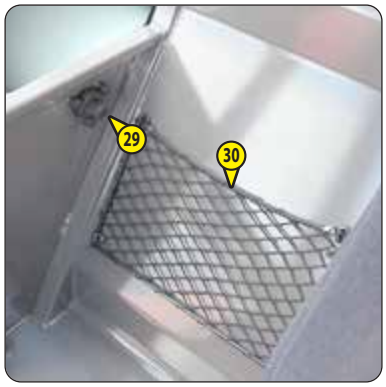
28 - DOOR HANDLES (Option)

Two keys are provided with the lift truck to enable the cab to be locked.

647835M3 (E-08/2024)
M.. D ST5 S1 EU

29 - DOOR BLOCK BUTTONS (Option)

- Open the door fully and make sure it is blocked in the open position.



30 - STORAGE NET

Ensure that the operator's manual is in its place in the storage net.

31 - WATERPROOF DOCUMENT-HOLDER (Option)

32 - SUN VISOR (Option)

33 - ROOF LIGHT

34 - INTERNAL REAR-VIEW MIRROR (Option)

35 - OUTSIDE REAR VIEW MIRRORS

- A - Left outside rear view mirror.
- B - Right outside rear view mirror (Option).

36 - FRONT HEADLIGHTS

- A - Right front high beam headlight and turn signal.
- B - Right front low beam and position light.
- C - Left front low beam headlight and position light.
- D - Left front high beam headlight and turn signal.

37 - REAR LIGHTS

- A - Left rear light (rear light, stop light and turn signal).
- B - Right rear light (rear light, stop light and turn signal).

38 - ROTATING BEACON LIGHT (Option)

The rotating beacon can be removed, for example to reduce the lift truck's overall external dimensions or to prevent theft.

- Loosen nut 1 and remove the rotating beacon.
- Protect the mount 2 with the cap 3.

39 - FLASHING LIGHT (Option)

The flashing light can be removed, for example to reduce the lift truck's overall external dimensions or to prevent theft.

- Loosen nut 1 and remove the rotating beacon.
- Protect the mount 2 with the cap 3.

647835M3 (E-08/2024)
M.. D ST5 S1 EU

40 - FUEL TANK

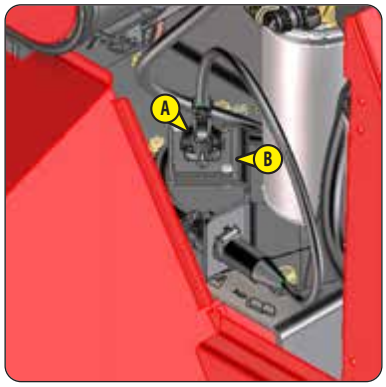
As far as possible, keep the fuel tank well filled in order to minimize condensation due to the atmospheric conditions.

⚠ IMPORTANT ⚠

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

- If necessary, add diesel (◁ 3 - MAINTENANCE: LUBRICANTS AND FUEL).
- Remove the cap 1.
- Fill the fuel tank with clean diesel filtered through the filler port.
- Refit the cap.
- Visually check that there is no leakage in the tank and pipes.

41 - ENGINE BLOCK HEATER (Option)



Enables the engine block to be kept warm during prolonged periods of stoppage and thus improves engine starting.

SUPPLY CHARACTERISTICS OF THE PREHEAT SYSTEM:

- Rated power supply voltage range:
  - 110-120 V; 50-60 Hz; Current consumed: 10 A
- Class 1 equipment
- Equipment connectable only to TT or TN supply systems
- Installation category 2

ENVIRONMENTAL CONDITIONS FOR USE:

- Maximum ambient temperature for using preheat: + 25 °C
- Pollution level 2

CONDITIONS FOR CONNECTION AND USE OF PREHEATING:

- The preheat system should not be used for an external ambient temperature higher than + 25°C.
- It is essential that the power supply to the preheating system:
  - Is effected with a cable that conforms to the installation standards in force and contains a protective earth conductor.
  - Contains an appropriate sectioning system.
  - Include an appropriate short-circuit protection system (fuses or circuit breaker) and a ground-fault circuit breaker, sensitive to 30 mA.
- Only connect to and disconnect from the power supply while the unit is switched off and the engine is stopped.

SAFETY FOR MOVING THE MACHINE:

⚠ IMPORTANT ⚠

To use the machine, the electric plug A of the engine block heater must be connected to the safety socket B.

If the engine block heater's electric plug is not connected to the safety socket:

  - the machine's movement controls are disabled
- If the forward/reverse selector is in the forward or reverse position:
  - The engine preheat pictogram flashes on the multifunction display.
  - The requested direction pictogram alternates with neutral on the multifunction screen.
  - The alarm sounds intermittently.

SLINGING POINT

⚠ IMPORTANT ⚠

This lift truck is not intended for use with a trailer.
IF NECESSARY, CONSULT YOUR DEALER.

This device is used only for slinging and securing the lift truck (◁ 3 - MAINTENANCE: OCCASIONAL OPERATION).

3 - MAINTENANCE

3 - MAINTENANCE

647835M3 (E-08/2024)
M.. D ST5 S1 EU

ORIGINAL MANITOU SPARE PARTS AND EQUIPMENT

OUR LIFT TRUCKS MUST BE SERVICED USING ORIGINAL MANITOU PARTS.

BY ALLOWING THE USE OF NON ORIGINAL MANITOU PARTS, 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, incurring liability 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 KNOW-HOW

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 as a result of feedback.
- Operator training.
- Only the MANITOU network has detailed knowledge of the design of the lift truck and therefore the best technical ability to provide maintenance.

⚠ IMPORTANT ⚠

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

The dealer network list is available on the MANITOU web site: www.manitou.com

647835M3 (E-08/2024)
M.. D ST5 S1 EU

FORKLIFT TRUCK MAINTENANCE

DAILY AND WEEKLY MAINTENANCE

⚠ IMPORTANT ⚠

THE OPERATOR IS AUTHORIZED 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 OF 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 MAINTENANCE

⚠ 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 up with the periodic maintenance of the lift truck 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 MAINTENANCE OR EVERY 50 HOURS OF SERVICE

647835M3 (E-08/2024)
M.. D ST5 S1 EU

MANDATORY FIRST 500 HOURS OR 6 MONTHS OF SERVICE

FIRST 500 HOURS BEFORE THE FIRST 6 MONTHS

- If the lift truck has reached the first 500 hours of operation before the first 6 months have expired, perform both the mandatory maintenance and periodic 500 H maintenance (◅ ➲ ❶ 500H - PERIODIC MAINTENANCE - 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, just carry out the mandatory service.

➲ MANDATORY SERVICE

**** Consult your dealer.***

647835M3 (E-08/2024)
M.. D ST5 S1 EU

MAINTENANCE SCHEDULE

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

SCHEDULE	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 MAINTENANCE	❶	❶+❷	❶	❶+❷+❸	❶	❶+❷	❶
MACHINE COUNTER							
DATE OF SERVICING							

SCHEDULE	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 MAINTENANCE	❶+❷+❸	❶	❶+❷	❶	❶+❷+❸	❶	❶+❷
MACHINE COUNTER							
DATE OF SERVICING							

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

** Consult your dealer.*

647835M3 (E-08/2024)
M.. D ST5 S1 EU

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

ALSO CARRY OUT THE PERIODIC MAINTENANCE FOR 500 HOURS OF SERVICE.

**** Consult your dealer.***

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

ALSO PERFORM THE 500 HOUR AND 1000 HOUR PERIODIC MAINTENANCE.

**** Consult your dealer.***

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

ALSO PERFORM THE 500 HOUR AND 1000 HOUR PERIODIC MAINTENANCE.

647835M3 (E-08/2024)
M.. D ST5 S1 EU

OCCASIONAL MAINTENANCE AND OPERATION

OCCASIONAL MAINTENANCE

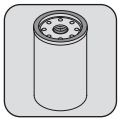
OCCASIONAL OPERATION

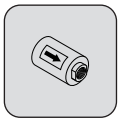
647835M3 (E-08/2024)
M.. D ST5 S1 EU

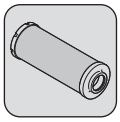
FILTER CARTRIDGES AND BELTS

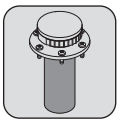
➲ ❶ 500H - PERIODIC MAINTENANCE - EVERY 500 HOURS OF SERVICE OR 1 YEAR

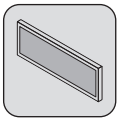

ENGINE OIL FILTER

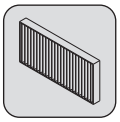

GEARBOX OIL FILTER


FRONT AXLE COOLING CIRCUIT FILTER


HYDRAULIC RETURN OIL FILTER CARTRIDGE

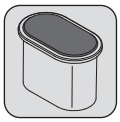

FILTER CAP FOR HYDRAULIC FLUID TANK


CAB VENTILATION FILTER (OPTION)


A/C VENTILATION FILTER (OPTION)

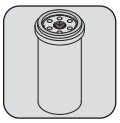
➲ ❷ 1000H - PERIODIC MAINTENANCE - EVERY 1000 HOURS OF SERVICE OR EVERY 2 YEARS

ALSO ADD THE FILTER CARTRIDGES FROM THE PERIODIC MAINTENANCE FOR 500 HOURS OF SERVICE.


DRY AIR FILTER CARTRIDGE


FUEL TANK BREATHER


FUEL PRE-FILTER


FUEL FILTER

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

ALSO ADD FILTER ELEMENTS FOR PERIODIC MAINTENANCE AT 500 HOURS AND 1,000 HOURS OF SERVICE.


BREATHER FOR HYDRAULIC OIL TANK


SUCTION STRAINER FOR HYDRAULIC OIL TANK


ALTERNATOR BELT


ALTERNATOR BELT
(AIR CONDITIONING OPTION)

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

ALSO ADD FILTER ELEMENTS FOR PERIODIC MAINTENANCE AT 500 HOURS AND 1,000 HOURS OF SERVICE.


SAFETY DRY AIR FILTER CARTRIDGE

⚠ IMPORTANT ⚠

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

DIAGNOSTIC ANALYSIS OF OILS

If a service or maintenance contract has been 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 (sulfur content < 10 ppm)
- Type of diesel fuel ASTM D975 (sulfur content < 15 ppm)

RECOMMENDATION

ENGINE

DESCRIPTION	CAPACITY	RECOMMENDATION
		-40°C -30 -20 -10 0 +10 +20 +30 +40 +50°C
ENGINE	7 ℓ	5W30 5W40 10W30 MANITOU EVOLOGY OIL 10W40 API CJ4 15W30 15W40
		-40°C -30 -20 -10 0 +10 +20 +30 +40 +50°C
COOLING CIRCUIT	14,5 ℓ	COOLANT -35 °C
		-40°C -30 -20 -10 0 +10 +20 +30 +40 +50°C
FUEL TANK	85 ℓ	HP NON-ROAD DIESEL (GNR) *

TRANSMISSION

DESCRIPTION	CAPACITY	RECOMMENDATION
		-40 °C -30 -20 -10 0 +10 +20 +30 +40 +50 °C
GEARBOX	17,5 ℓ	MANITOU DX IIIG AUTOMATIC TRANSMISSION OIL

FRONT AXLE

DESCRIPTION	CAPACITY	RECOMMENDATION
FRONT AXLE DIFFERENTIAL	11 ℓ	SPECIAL MANITOU OIL FOR IMMERSED BRAKES
		-40 °C -30 -20 -10 0 +10 +20 +30 +40 +50 °C
FRONT WHEEL REDUCING GEAR	2 x 0,75 ℓ	MANITOU SAE80W90 MECHANICAL TRANSMISSION OIL

REAR AXLE M26-2 ... / M30-2 ...

DESCRIPTION	CAPACITY	RECOMMENDATION
		-40 °C -30 -20 -10 0 +10 +20 +30 +40 +50 °C
SWIVEL PINS STEERING CYLINDER FOOT REAR AXLE OSCILLATION		MANITOU BLUE MULTI-PURPOSE LUBRICANT

REAR AXLE M40-2 ... / M50-2 ...

DESCRIPTION	CAPACITY	RECOMMENDATION
		-40 °C -30 -20 -10 0 +10 +20 +30 +40 +50 °C
SWIVEL PINS REAR AXLE OSCILLATION		MANITOU BLUE MULTI-PURPOSE LUBRICANT

647835M3 (E-08/2024)
M.. D ST5 S1 EU

REAR AXLE M26-4 ... / M30-4 ... / M40-4 ... / M50-4 ...

DESCRIPTION	CAPACITY	RECOMMENDATION
REAR AXLE DIFFERENTIAL	6,5 ℓ	SPECIAL MANITOU OIL FOR IMMERSED BRAKES
REAR WHEEL REDUCING GEAR	2 x 0,75 ℓ	MANITOU SAE80W90 MECHANICAL TRANSMISSION OIL
REAR WHEEL REDUCING GEAR PIVOTS		MANITOU BLACK MULTI-PURPOSE LUBRICANT
REAR AXLE OSCILLATION		MANITOU BLUE MULTI-PURPOSE LUBRICANT

-40 °C -30 -20 -10 0 +10 +20 +30 +40 +50 °C

BRAKES

DESCRIPTION	CAPACITY	RECOMMENDATION
BRAKE SYSTEM	1,5 ℓ	MANITOU MINERAL BRAKE FLUID

MAST

DESCRIPTION	RECOMMENDATION
MAST LIFTING CHAINS	MANITOU SPECIAL CHAINS LUBRICANT
GREASING OF THE MAST	MANITOU BLACK MULTI-PURPOSE LUBRICANT

-40 °C -30 -20 -10 0 +10 +20 +30 +40 +50 °C

HYDRAULICS

DESCRIPTION	CAPACITY	RECOMMENDATION
HYDRAULIC OIL TANK	80 ℓ	ISO VG 100 ISO VG 68 MANITOU ISO VG 46 HYDRAULIC FLUID ISO VG 37 ISO VG 68

-40 °C -30 -20 -10 0 +10 +20 +30 +40 +50 °C

OVERHEAD GUARD

DESCRIPTION	CAPACITY	RECOMMENDATION
WINDSHIELD WASHER TANK	1,5 ℓ	WINDSHIELD WASHER FLUID

CAB (OPTION)

DESCRIPTION	CAPACITY	RECOMMENDATION
CAB DOOR		MANITOU BLUE MULTI-PURPOSE LUBRICANT
WINDSHIELD WASHER TANK	1,5 ℓ	WINDSHIELD WASHER FLUID

-40 °C -30 -20 -10 0 +10 +20 +30 +40 +50 °C

647835M3 (E-08/2024)
M.. D ST5 S1 EU

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

CHECK — Lift truck environment

⚠ IMPORTANT ⚠

Follow the operator instructions (◅ 1 - OPERATING AND SAFETY INSTRUCTIONS: OPERATOR INSTRUCTIONS).

- Carry out a general inspection of the lift truck:
  - Fluid leaks or stains on the ground.
  - Additional object on the lift truck or in the overhead guard or cab.
  - Mounting and adjustment of lights and rear view mirrors.
  - Mounting and locking of the attachment.
  - Condition of the tires, to detect cuts, blisters, wear, etc.
- According to the conditions of use and the environment, ensure that the lift truck is clean:
  - Lights, rear view mirrors, windows, bodywork.
  - Driver's cab (◅ OCCASIONAL MAINTENANCE).
  - Engine housing and inside the frame (◅ OCCASIONAL MAINTENANCE) to prevent leaks and accumulation 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. These significantly increase the risk of fire.

CHECK — Engine oil level

Place the lift truck on level ground with the engine stopped, and let the oil settle in the sump.

- Open the left engine cover.
- Pull out the 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.
- Check for leaks.

CHECK — Coolant level

Place the lift truck on level ground with the engine stopped, and allow the engine to cool.

⚠ IMPORTANT ⚠

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

In the event of an emergency, it is possible to use water as the coolant, but then proceed to drain the coolant circuit as quickly as possible.

- Open the right engine cover.
- The liquid must be at the MAX. level on the expansion tank 1.
- If necessary, add coolant (◅ LUBRICANTS AND FUEL) through the filler hole 2.
- Visually check that there is no leakage or seepage.

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 right side engine cover.
- Disconnect electrical wiring harness 1 from the fuel pre-filter.
- Place a hose on the drain plug 2 and the other end in a container.
- Unscrew the drain plug 2 by two turns.
- Allow the diesel fuel to flow out until it is free from impurities and water.
- Retighten drain plug 2 and reconnect the wiring harness 1.

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

CHECK — Protection of electrical connections

⚠ IMPORTANT ⚠

In case of technical faults, consult your dealer.

- Check the presence and condition of the electrical connection protection.

CHECK — Gearbox oil level

Place the lift truck on level ground with the I.C. engine cold and idling.

- Remove access panel 1.
- Pull out the dipstick 2.
- Wipe the dipstick and check the correct level at the upper mark.
- If necessary, add oil (◅ 1000H: REPLACE Gearbox oil).
- Visually check that there is no leakage or seepage.
- Refit access panel 1.

CHECK — Tire pressure

CHECK — Wheel nut tightening

⚠ IMPORTANT ⚠

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

- Check the wheel nut torque. Non-compliance with this instruction can lead to deterioration and breakage of the wheel lugs and distortion of the wheels.
- Check and restore tire pressure, if necessary (◅ 2 - DESCRIPTION: TIRES).

CHECK — Front axle differential seal

Place the lift truck on level ground with the engine stopped.

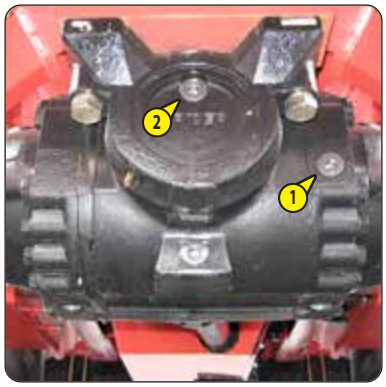
- Visually check that there is no leakage or seepage.
- If there is any leakage or seepage, check the level:
  - Remove the level plug 1, the oil should be flush with the edge of the hole.
  - If necessary, add oil (◅ LUBRICANTS AND FUEL) through the same hole.
  - Refit and tighten the level plug (tightening torque 34 - 49 N.m).

CHECK — Rear axle differential seal

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

Place the lift truck on level ground with the engine stopped.

- Visually check that there is no leakage or seepage.
- If there is any leakage or seepage, check the level:
  - 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 level plug (tightening torque 34 - 49 N.m).



CHECK — Front wheel reducer seals

CHECK — Rear wheel reducer seals

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

Place the lift truck on level ground with the engine stopped.

- Visually check that there is no leakage or seepage.
- If there is any leakage or seepage, check the level:
  - 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) through the same hole.
  - Refit and tighten the level plug (tightening torque 34 - 49 N.m).

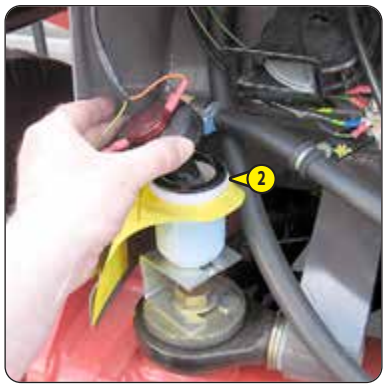
CHECK — Brake fluid level

Place the lift truck on level ground.

⚠ IMPORTANT ⚠

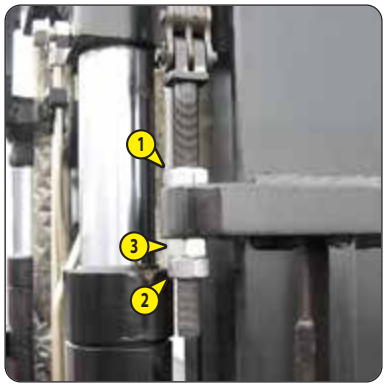
If the brake fluid level is abnormal, consult your dealer.

- Remove the front panel 1.
- Check tank 2. The correct level should be at the MAX. level on the tank.
- Visually check that there is no leakage or seepage.
- If necessary, add oil (◁ LUBRICANTS AND FUEL) through the filler hole 2.
- Refit the front panel 1.



CHECK — Tension and alignment of mast lifting chains

M26-2 ... / M26-4 ... / M30-2 ... / M30-4 ...



Place the lift truck on level ground with the mast in a vertical position and the forks raised approximately 200 mm.

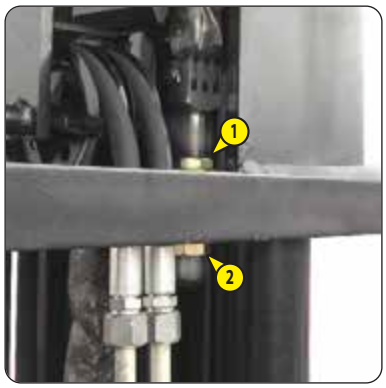
⚠ IMPORTANT ⚠

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

- Check the alignment of the mast lifting chains between the carriage chain fasteners and the chain rollers.
- Manually inspect the chain tension and, if necessary, adjust as indicated below while ensuring that the carriage is perpendicular to the mast.
- Loosen nut 1.
- Loosen the chain tensioner locknut 2.
- Adjust the tension by tightening or loosening the nut 3 while checking the alignment of the lifting chains.
- Then tighten locknut 2 and nut 3.
- Retighten the nut 1.

CHECK — Tension and alignment of mast lifting chains

M40-2 ... / M40-4 ... / M50-2 ... / M50-4 ...



Place the lift truck on level ground with the mast in a vertical position and the forks raised approximately 200 mm.

⚠ IMPORTANT ⚠

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

- Check the alignment of the mast lifting chains between the carriage chain fasteners and the chain rollers.
- Manually inspect the chain tension and, if necessary, adjust as indicated below while ensuring that the carriage is perpendicular to the mast.
- Loosen the chain tensioner locknut 1.
- Adjust the tension by tightening or loosening the nut 2 while checking the alignment of the lifting chains.
- Tighten the lock nut 1.
- Retighten the nut 2.

CHECK — Hydraulic fluid level

Place the lift truck on level ground with the engine stopped, the mast tilted backward and lowered as far as possible.

⚠ IMPORTANT ⚠

Use a very clean funnel and clean the top of the oil can before filling.

- Check dipstick 1, the correct level must be between the two marks.
- If necessary, add oil (◁ LUBRICANTS AND FUEL).
- Remove the lock 2.
- Remove the cap 3.
- Add oil through filler port.
- Refit the cap and its lock.
- Check for leaks.

CHECK — Windshield washer fluid level

Place the lift truck on level ground.

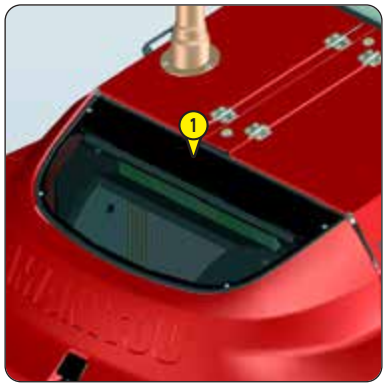
- Remove access panel 1.
- Visually check the level in the tank.
- If necessary, add windshield washer fluid (◁ LUBRICANTS AND FUEL).
- Remove the cap 2.
- Add windshield washer liquid through filler port.
- Refit the cap.
- Refit access panel 1.

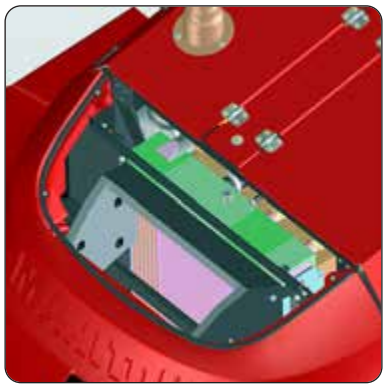
CLEAN — Radiator cores

⚠ IMPORTANT ⚠

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

- Open the engine covers.
- Remove and clean the intake grille 1.
- Using a soft cloth, clean the radiator cores in order to remove as much dirt as possible.
- Clean the radiator with compressed air directed from the back toward the engine.



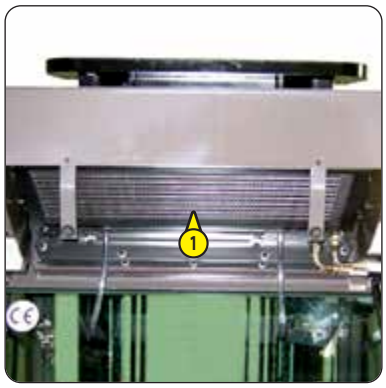


CLEAN — Condenser harness (Air conditioning OPTION)

⚠ IMPORTANT ⚠

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

- Remove the protective grid 1 and clean it if necessary.
- Visually check whether the condenser is clean and clean it if necessary.
- 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.



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

⚠ IMPORTANT ⚠

In the event of prolonged use in an extremely dusty or oxidizing 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.

REAR AXLE

M26-2 ... / M30-2

1 - Lubricators for the swivel pins (6 lubricators).
2 - Lubricators for the tie-rods (4 lubricators).
3 - Rear axle oscillation lubricators (2 lubricators).

M40-2 ... / M50-2

4 - Lubricators for the swivel pins (4 lubricators).
5 - Rear axle oscillation lubricators (2 lubricators).

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

6 - Lubricators of the rear wheel reduction gear pivots (4 lubricators).
7 - Lubricators of the rear axle oscillation pin (2 lubricators).

MAST

M26-2 ... / M26-4 ... / M30-2 ... / M30-4 ...

8 - Mast foot hinge pins (2 lubricators).
9 - Tilt cylinder foot axles (2 lubricators).
10 - Tilt cylinder head axles (2 lubricators).

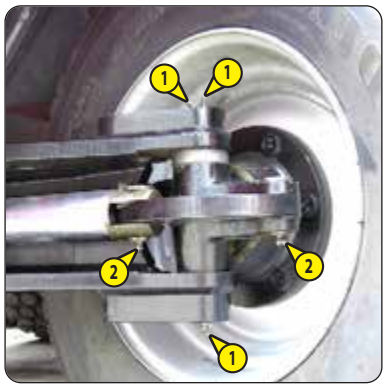
M40-2 ... / M40-4 ... / M50-2 ... / M50-4 ...

11 - Mast foot hinge pins (2 lubricators).
12 - Tilt cylinder foot axles (2 lubricators).
13 - Tilt cylinder head axles (2 lubricators).
14 - Lubricators of upper guide rollers on mast (2 lubricators).
15 - Side-shift mast cylinder.
16 - Side-shift mast bearings.
17 - Lubricators of lower guide rollers on mast (2 lubricators).

N.B.: Wide tire OPTION, raise the forks approximately 2 meters to lubricate the mast's lower guide rollers via hole 15A.

CAB (OPTION)

18 - Cab door lubricators (4 lubricators).



647835M3 (E-08/2024)
M.. D ST5 S1 EU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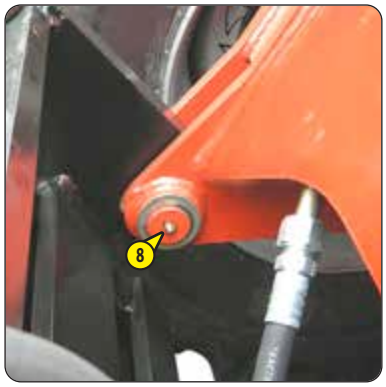
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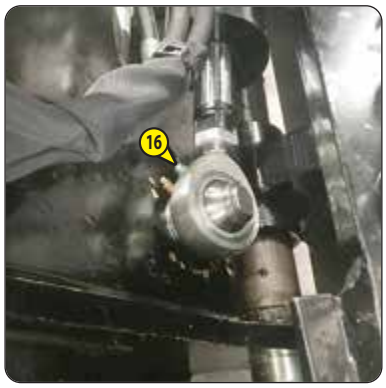
15A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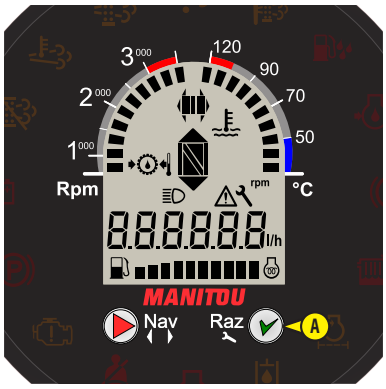
➲ ❶ 500H - PERIODIC MAINTENANCE - EVERY 500 HOURS OF SERVICE OR 1 YEAR

CHECK — Countdown before "stationary lift truck" exhaust regeneration



Depending on the countdown before the next regeneration, you can evaluate and, if necessary, perform a regeneration during the periodic 500-hour service (◅ 3 - MAINTENANCE: OCCASIONAL MAINTENANCE).

- Short press button A to move from one screen to the next until the countdown before next regeneration screen is displayed (700h => 0h).

CHECK — Parking brake

⚠ IMPORTANT ⚠

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

BRAKE SYSTEM CHECK

Place the lift truck on level ground with the engine stopped.

- Remove the cover plate 1.

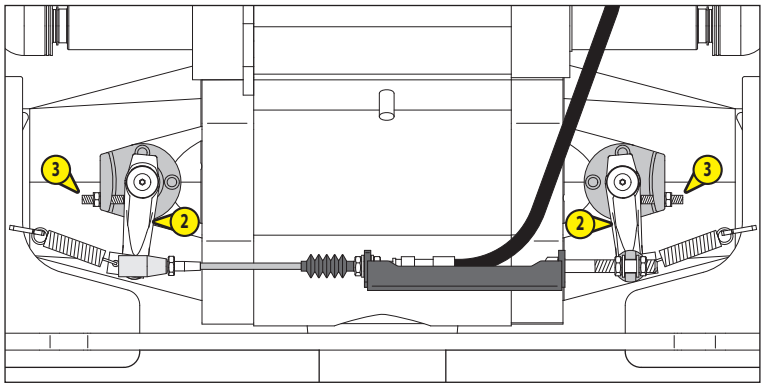
N.B.: When removing cover plates and hatches, clean the surrounding area and remove any accumulations of flammable materials.

- If necessary, correctly clean the environment of the connecting rods and setting stops.
- Release then apply the parking brake several times, while checking that the connecting rods 2 return to the stops 3.
- In the event of a malfunction, contact your dealer.

BRAKE CHECK

Place the lift truck on a slope of 15% with the rated load in the transport position.

- Immobilize the lift truck using the service brake pedal.
- Firmly apply the parking brake in position A (400 N.m).
- Release the service brake pedal.
- Braking is working correctly if the lift truck remains stationary on the slope.
- In the event of poor braking, contact your dealer.



CHECK — Hydraulic oil

MANITOU offers a hydraulic oil analysis kit which makes it possible to extend the recommended interval for periodic maintenance from 1,000 to 2,000 hours.

In this case, hydraulic oil analysis must be carried out every 500 hours of service.

This analysis makes it possible to confirm the oil quality to reach the deadline of 2,000 hours.

N.B.: 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.)

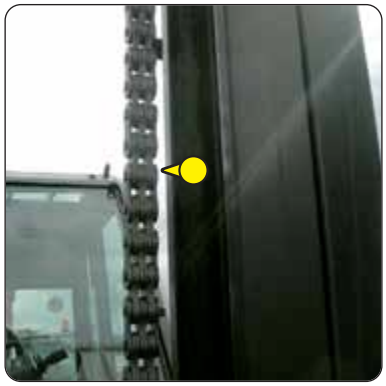
ANALYSIS PROCEDURE

- Order an oil analysis kit from your dealer (part no. MANITOU 958162).
- 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 fluid.

LUBRICATE — Parking brake lever mechanism

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

GREASE — Mast lifting chains



- Wipe the mast lifting chains with a clean, lint-free cloth
- Vigorously brush the chains to get rid of any foreign matter, with a hard nylon brush and clean diesel fuel.
- Rinse the chains by means of a paint brush impregnated with clean diesel fuel and dry them with a compressed air jet.
- Carefully check each chain for any signs of wear.

⚠ IMPORTANT ⚠

In case of technical faults, consult your dealer.

- Grease the chains sparingly (◅ LUBRICANTS AND FUEL).

647835M3 (E-08/2024)
M.. D ST5 S1 EU

REPLACE Engine oil

REPLACE Engine oil filter

Place the lift truck on level ground, let the engine run at idle for a few minutes, then stop the engine.

⚠ IMPORTANT ⚠

Dispose of the used oil in an ecological manner.

Hand-tighten the oil filter and lock in place with a quarter turn.

DRAINING THE OIL

- Remove the closure plates 1 (3 closure plates).

N.B.: When removing cover plates and hatches, clean the surrounding area and remove any accumulations of flammable materials.

- Place a container under the drain hole and unscrew the drain plug 2.
- Open the right engine cover and the right side cover.
- Take drain hose 3.
- Place the end of the drain hose in the container and screw the hose fully to the drain connector 2.
- Remove the filler plug 4 to ensure correct drainage.

REPLACEMENT OF THE FILTER

- Unscrew and discard the engine oil filter 5, 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 CARTRIDGES AND BELTS) on its bracket (tightening torque 15 - 17 N.m).

FILLING WITH OIL

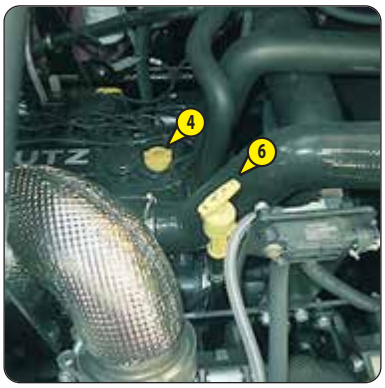
- Remove, clean and refit drain hose 3.
- Refit and tighten the drain plug 2.
- Fill up with oil (◅ LUBRICANTS AND FUEL) through filler hole 4.

N.B.: 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 possible leaks from the drain plug and the oil filter.
- Stop the engine, wait a few minutes and check the correct level between the two marks on the dipstick 6.
- Top up the level, if necessary.
- Put the closure plates 1 back in place (3 closure plates).

INITIALIZATION OF 500-HOUR MAINTENANCE

- Contact your agent or dealer.



647835M3 (E-08/2024)
M.. D ST5 S1 EU

REPLACE Gearbox oil filter

⚠ IMPORTANT ⚠

Tighten the gearbox oil filter by hand only and lock the filter in place by a quarter turn.

- Unscrew and discard gearbox oil filter 1.
- Carefully clean the filter head with a clean, lint-free cloth.
- Lightly oil the new seal and fit it to the filter.
- Fill up the new gearbox oil filter (◅ FILTER CARTRIDGES AND BELTS) with oil (◅ LUBRICANTS AND FUEL).
- Refit the filter, making sure that the seal is correctly positioned and tightened.

REPLACE Front axle differential oil

REPLACE Front axle cooling system filter

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

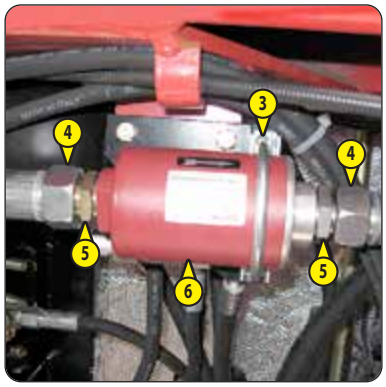
⚠ IMPORTANT ⚠

Dispose of the used oil in an ecological manner.

DRAINING THE OIL

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

REPLACEMENT OF THE FILTER



⚠ IMPORTANT ⚠

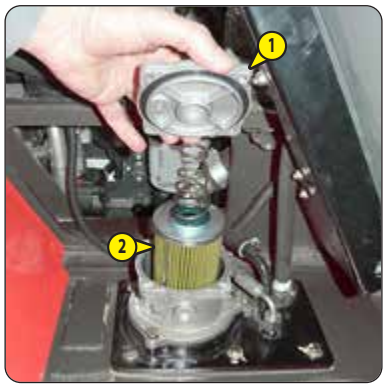
Be careful to mount the filter 6 in the same direction as the arrow.

- Unscrew the half clamp 3.
- Unscrew the two hoses 4 and remove the two connectors 5.
- Replace the filter 6 (◅ FILTER CARTRIDGES AND BELTS).
- 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.
- Put the cap 2 back.
- 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.
- Remove the cap 2.
- 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 filling plug 2 (tightening torque 34 - 49 N.m).

REPLACE Hydraulic return oil filter cartridge



Stop the engine and release the pressure from the systems by operating the hydraulic controls.

⚠ IMPORTANT ⚠

Thoroughly clean the outside of the filter and its surroundings before any operation to prevent any risk of polluting the hydraulic system.

- Open the engine hood.
- Unscrew the fastening screws of the cover 1.
- Remove the hydraulic return oil filter cartridge 2 and replace it with a new one (◅ FILTER CARTRIDGES AND BELTS).
- Make sure that the cartridge is correctly positioned and refit the cover 1.

647835M3 (E-08/2024)
M.. D ST5 S1 EU

REPLACE Hydraulic oil tank filter cap

- Remove the filler cap lock 1.
- Unscrew the retaining screws 2, remove and replace the filter plug 2 with a new one (◅ FILTER CARTRIDGES AND BELTS).
- Remove the filler cap lock 1.

REPLACE Cab ventilation filter (OPTION)

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

REPLACE A/C ventilation filter (OPTION)

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

647835M3 (E-08/2024)
M.. D ST5 S1 EU

*Consult your dealer.

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

ALSO CARRY OUT THE PERIODIC MAINTENANCE FOR 500 HOURS OF SERVICE.

CHECK — Seat 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 seat 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.

N.B.: Replace the seat belt after an accident.

REPLACE — Dry air filter cartridge

In case of use in a heavily dust-laden atmosphere, the cartridge replacement interval must be reduced (to 250 hours in a heavily dust laden atmosphere).

⚠ IMPORTANT ⚠

Change the cartridge in a clean location, with the engine stopped.
Do not clean the dry air filter cartridge by washing it in liquid.
Never operate the lift truck without an air filter or with an air filter that is damaged.

If the air filter clogging indicator comes on, replace the cartridge with minimum delay (maximum 1 hour).

- Open the right side engine cover.
- Loosen the locks and remove cover 1.
- Pivot cartridge 2 toward the front and carefully remove to avoid spilling the dust.
- Leave the safety cartridge in place.
- Carefully clean the following parts with a damp, clean lint-free cloth.
  - The inside of the filter and cover.
  - The inside of the filter inlet hose.
  - The gasket surfaces in the filter and in the cover.
- Check pipes and connections between the air filter and the engine and the connection and state of the clogging indicator on the filter.
- Check the condition of the new filter cartridge before fitting (◅ FILTER CARTRIDGES AND BELTS).
- Place the cartridge into the filter and position it by pressing the edges, not the middle.
- Refit the cover and ensure that the clips are properly secured. The cover should fit on easily. If this is not the case, check the position of the cartridges in the filter.

647835M3 (E-08/2024)
M.. D ST5 S1 EU

CLEAN — Fuel tank

REPLACE — Fuel tank breather

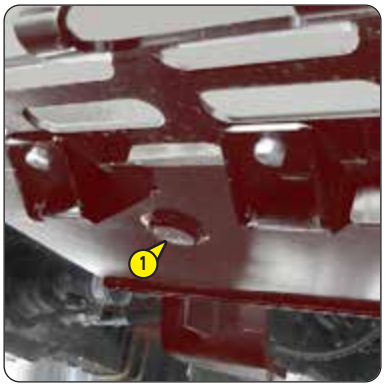
Place the lift truck on level ground with the engine stopped.

⚠ IMPORTANT ⚠

Do not smoke or approach with a flame during this operation.

Never attempt to carry out welding or any other operation by yourself, as this could cause an explosion or a fire.

- Inspect the parts of the fuel circuit and the tank liable to leak, both visually and by touch.
- In the event of a leak, contact your dealer.
- Place a container under drain plug 1 and unscrew the plug.
- Remove the filler plug 2 to ensure correct drainage.
- Rinse with ten liters of clean diesel through the filler hole 2.
- Refit and tighten the drain plug 1 (tightening torque 29 - 39 N.m).
- Remove access panel 3.
- Unscrew the breather 4 and replace with a new one (◁ FILTER CARTRIDGES AND BELTS) (tightening torque 3 - 7 N.m).
- Fill the fuel tank with clean diesel filtered through the filler port.
- Refit the filler plug.



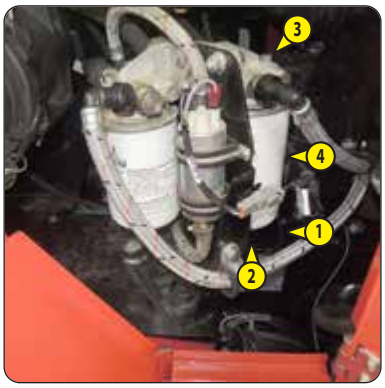
REPLACE — Fuel pre-filter

⚠ IMPORTANT ⚠

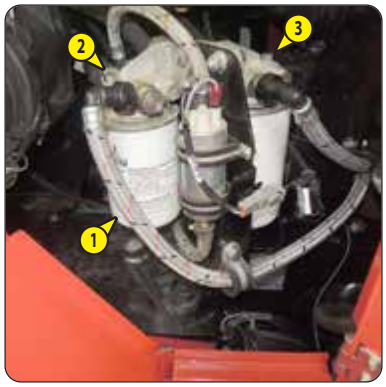
Carefully clean the outside of the pre-filter and its holder, to prevent dust from getting into the system.

Tighten the fuel filter by hand only and lock in place by a quarter turn.

- Switch off the lift truck's ignition.
- Open the right side engine cover.
- Disconnect electrical wiring harness 1 from the fuel pre-filter.
- Place a hose on the drain plug 2 and the other end in a container.
- Unscrew the drain plug 2 by two turns.
- Open bleed screw 3 to ensure proper emptying.
- Retighten bleed screw 3 once the pre-filter is emptied.
- Loosen pre-filter 4 and discard it, together with its seal.
- Clean the inside of the pre-filter head using a brush impregnated with clean diesel oil.
- Refit a pre-filter and a new seal lubricated with clean diesel beforehand (◁ FILTER CARTRIDGES AND BELTS).
- Reconnect electrical wiring harness 1 on the fuel pre-filter.
- Replace the fuel filter.



REPLACE Fuel filter



⚠ IMPORTANT ⚠

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

- Unscrew and discard the fuel filter 1.
- Clean the inside of the filter head using a brush immersed in clean diesel oil.
- Refit a filter and a new seal lubricated with clean diesel beforehand (◁ FILTER CARTRIDGES AND BELTS).
- Tighten the filter, making sure that the seal is correctly positioned (tightening torque 10 - 12 N.m).
- Open the bleed screw 3 of the fuel pre-filter and the bleed screw 2 of the fuel filter.
- Switch on the lift truck's ignition, and close the bleed screw as soon as the diesel flows with no air.

REPLACE Coolant

These operations are to be carried out as necessary or every 2 years at the beginning of winter. Place the lift truck on level ground with the engine stopped and cold.

⚠ IMPORTANT ⚠

The engine does not contain any anti-corrosion elements and must be filled throughout the year with a mixture containing 25% ethylene glycol-based antifreeze.

- Open the right engine cover.

DRAINING THE LIQUID

- Place a container under the radiator hose 1.
- Remove the hose.
- Remove the filler plug 2 of the expansion tank to ensure correct drainage.
- 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.
- Slowly fill the circuit with coolant (◁ LUBRICANTS AND FUEL) up to the MAX level of the expansion tank 3 through the filler hole.
- Refit the filler plug 2.
- Run the engine at idle for a few minutes.
- Check for any possible leaks.
- Check the level and top up if necessary.

REPLACE Gearbox oil

CLEAN Gearbox sump strainer

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

⚠ IMPORTANT ⚠

Dispose of the used oil in an ecological manner.

DRAINING THE OIL

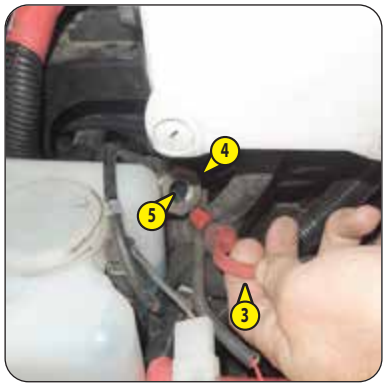
- Place a container under drain plug 1 and under the electric plate 2.
- Unscrew the drain plug 1.
- Remove dipstick 3 and unscrew filling plug 4 in order to ensure that the oil is drained properly.

CLEANING THE SUCTION STRAINER

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

FILLING WITH OIL

- Refit and tighten the drain plug 1 (tightening torque 34 - 54 N.m).
- Fill up with oil (◁ LUBRICANTS AND FUEL) through the filler port 5 and refit the plug.
- Start the engine and let it run for a few minutes.
- Check any possible leaks from the drain plug or cover.
- Top up the level, if necessary.

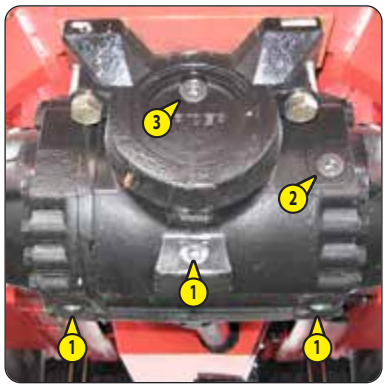


REPLACE Rear axle differential oil

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

⚠ IMPORTANT ⚠

Dispose of the used oil in an ecological manner.

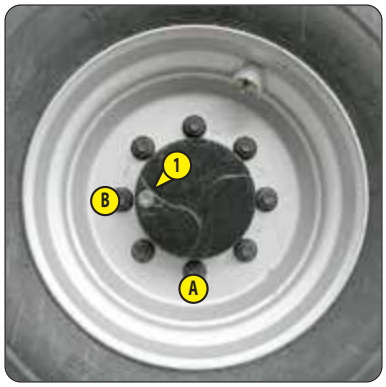


- Place the lift truck on level ground with the engine stopped and the differential oil still warm.
- Place a container under drain plugs 1 and unscrew them.
- Undo level plug 2 and filler plug 3 to ensure that the oil is drained properly.
- Refit and tighten the drain plugs 1 (tightening torque 34 - 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 sight gauge 2.
- Check for any possible leaks at the drain plugs.
- Refit and tighten level plug 2 (tightening torque 34 - 49 N.m) and filling plug 3 (tightening torque 34 - 49 N.m).

REPLACE — **Front wheel reducer oil**

REPLACE — **Rear wheel reducer oil**

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



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

⚠ IMPORTANT ⚠

Dispose of the used oil in an ecological manner.

- Drain and change 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 port 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 - 49 N.m).

CHECK — **Engine shock mounts ***

CHECK — **Gearbox silent blocks ***

CHECK — **Gear box controls ***

CHECK — **Brake system pressure ***

CHECK — **Condition of wiring harnesses and cables ***

CHECK — **Lights and signals ***

CHECK — **Warning indicators ***

CHECK — **Condition of the rear view mirrors ***

CHECK — **Overhead guard structure ***

CHECK — **Cabin structure (OPTION) ***

CHECK — **Chassis structure ***

CHECK — **Attachment mounting system ***

CHECK — **Condition of attachments ***

REPLACE — **Brake fluid ***

BLEED — **Braking system ***

ADJUST — **Brake ***

** Consult your dealer.*

647835M3 (E-08/2024)
M.. D ST5 S1 EU

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

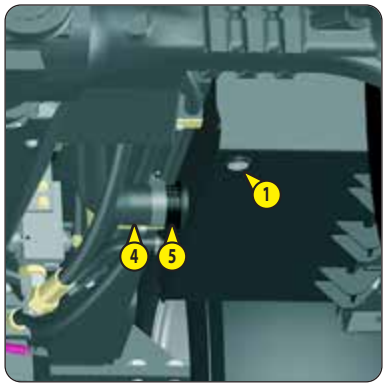
ALSO PERFORM THE 500 HOUR AND 1000 HOUR PERIODIC MAINTENANCE.

CHECK — *Wheel nut tightening torque*

- Check the condition of the tires 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*

Place the lift truck on level ground with the engine stopped, the mast tilted backward and lowered as far as possible.



⚠ IMPORTANT ⚠

Before any intervention, thoroughly clean the environment surrounding the filler plug and the filter, the drain plug and the suction strainer on the hydraulic tank.
Dispose of the used oil in an ecological manner.
Use a clean container and funnel and clean the underside of the oil drum before filling.

- Open the right side engine cover.

DRAINING THE OIL

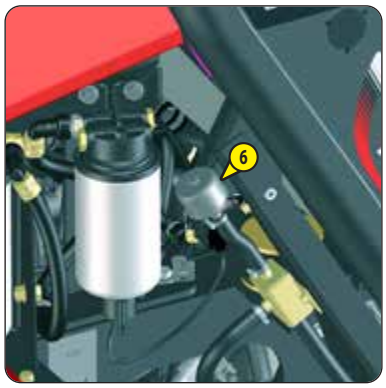
- Place a container under drain plug 1 and unscrew the plug.
- Remove the filler cap lock 2.
- Remove the filler plug 3 to ensure correct drainage.
- Allow the hydraulic tank to empty completely.

CLEANING THE SUCTION STRAINER

- Remove the suction hose 4.
- Remove and clean the suction strainer 5 using a compressed air jet, check its condition and replace if necessary (◅ FILTER CARTRIDGES AND BELTS).
- Refit the strainer and the hose.

REPLACING THE BREATHER

- Unscrew the breather 6 and replace it with a new one (◅ FILTER CARTRIDGES AND BELTS).



FILLING WITH OIL

- Clean and refit the drain plug 1 (tightening torque 73 - 97 N.m).
- Fill up with oil (◅ LUBRICANTS AND FUEL) through filler hole 3.
- Observe the oil level on dipstick 8; the oil level should be between the min. and max. marks on the dipstick.
- Check for any possible leaks at the drain plug.
- Refit the cap and its lock.

CHECK	Radiator *
CHECK	Transmission pressures *
CHECK	Steering *
CHECK	Steering swivel joints *
CHECK	Steering swivel joints *
CHECK	Condition of mast assembly *
CHECK	Mast lifting chains *
CHECK	Mast rollers *
CHECK	Condition of hoses and flexible pipes *
CHECK	Condition of cylinders (leakage, rods) *
CHECK	Hydraulic circuit pressures *
CHECK	Chassis bearings and bushings*
REPLACE	Alternator belt *
CLEAN	Air conditioning (OPTION) *

* Consult your dealer.

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

ALSO PERFORM THE 500 HOUR AND 1000 HOUR PERIODIC MAINTENANCE.

REPLACE — Dry air filter safety cartridge

⚠ IMPORTANT ⚠

The safety cartridge replacement frequency is given for information only. It must be changed every second time the dry air filter cartridge is changed.

- For dismantling and reassembly of the cartridge (◅ 2,000 HOURS: REPLACE Air filter cartridge).
- Carefully remove the dry air filter safety cartridge 1 to reduce dust fall as much as possible.
- Clean the gasket surface on the filter with a damp, clean lint-free cloth.
- Check the condition of the new safety cartridge before fitting (◅ FILTER CARTRIDGES AND BELTS).
- Insert the cartridge in the filter axis and push the cartridge pressing against the outer edge and not the center.

CLEAN "Stationary lift truck" exhaust regeneration

⚠ IMPORTANT ⚠

If the indicator lamp STOP comes on, contact your dealer.
If you are performing regeneration during the periodic 500-hour service, do the regeneration before replacing the engine oil.

Exhaust regeneration is an automated procedure activated by the operator when the following indicator lights are displayed:

- (flashing) + 1 short beep.
- (flashing)+ + + 1 long beep.

- Park the lift truck in a safe and adequately ventilated place.
- Check the following points:
  - forward/reverse selector in neutral,
  - parking brake applied,
  - forks resting on the ground,
  - idling speed,
- Check that the fuel level is sufficient.
- Start the lift truck and run the engine for a few minutes to bring it up to its normal operating temperature.
- Press and hold the top of switch 1 for at least two seconds to launch exhaust regeneration. The indicator lamp comes on fixed and the increase in engine speed confirms that regeneration has begun.
  - The indicator lamp comes on and confirms the start of the regeneration procedure.
  - The indicator lamp comes on as soon as the particulate filter temperature is high enough.

⚠ IMPORTANT ⚠

The regeneration procedure must not be stopped unless absolutely necessary.
The procedure stops automatically if the operator:
- engages forward or reverse gear,
- releases the parking brake,
- presses on the accelerator pedal,
- switches off the engine,
- presses switch 1.

- The time taken by the regeneration procedure varies between 30 and 40 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 automatic regeneration cancellation requests.
- The time remaining appears on the multifunction screen 

.
- At the end of the regeneration procedure, the indicator light goes out and the time remaining before stationary exhaust particle regeneration is reset.

CLEAN Driver's cab

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.

647835M3 (E-08/2024)
M.. D ST5 S1 EU

CLEAN — Engine compartment

CLEAN — Inside of the frame

⚠ IMPORTANT ⚠

Do not use a water jet or high-pressure steam.

- Open the engine hood.
- Remove the access panels.
- Clean the engine compartment and the inside of the frame using a compressed air jet.

REPLACE — Wheels

⚠ IMPORTANT ⚠

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

- Stop the lift truck, if possible on firm, level ground.
- Stop the lift truck (◅ 1 - SAFETY INSTRUCTIONS: DRIVING INSTRUCTIONS UNLADEN AND LADEN).
- Switch on the hazard warning lights.
- Immobilize the lift truck in both directions on the axle opposite to the wheel to be changed.
- Loosen the nuts of the wheel to be changed until they can be easily removed.

REAR WHEEL

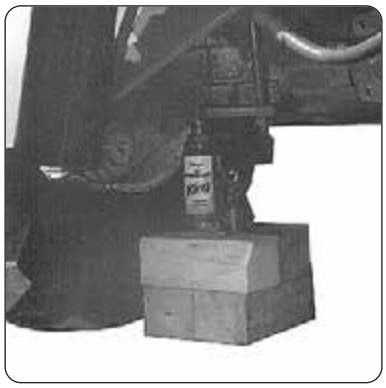
For this operation, we advise you to use the hydraulic jack (MANITOU Part No.: 505507).

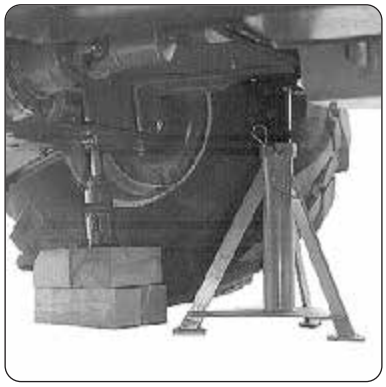
- Place and adjust the jack under the rear axle, as near as possible to the wheel.
- Lift the wheel until it comes off the ground and put in place the safety block under the axle.
- Completely unscrew the wheel nuts and remove them.
- Free the wheel using back and forth movements and roll it to the side.
- Slip the new wheel on the wheel hub.
- Hand-tighten the nuts, grease them if necessary.
- Remove the security block and lower the lift truck with the jack.
- Tighten the wheel nuts to the prescribed torque value (◅ 2000H - PERIODIC MAINTENANCE - EVERY 2,000 HOURS OF SERVICE OR EVERY 4 YEARS) using a torque wrench.

FRONT WHEEL

For this operation, we advise you to use the hydraulic jack (MANITOU Part No.: 505507) and the safety support prop (MANITOU 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 comes off the ground and put in place the safety support under the frame.
- Loosen the wheel nuts and remove them completely.
- Free the wheel using back and forth 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 security block and lower the lift truck with the jack.
- Tighten the wheel nuts to the prescribed torque value (◅ 2000H - PERIODIC MAINTENANCE - EVERY 2,000 HOURS OF SERVICE OR EVERY 4 YEARS) using a torque wrench.

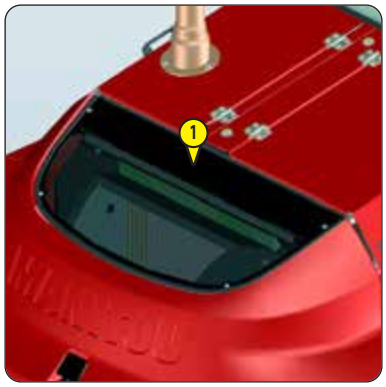




647835M3 (E-08/2024)
M.. D ST5 S1 EU

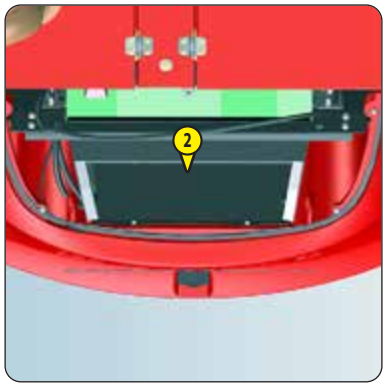
⚠ IMPORTANT ⚠

Operate the battery cut-off for 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.



BATTERY REPLACEMENT

- Remove the protective grid 1.
- Remove the crankcase 2.
- Remove the fasteners from the battery 3.
- Replace the battery.



CONNECTION OF A BACK-UP BATTERY

- Remove the protective grid 1.
- Remove the crankcase 2.
- Bring a backup 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.

647835M3 (E-08/2024)
M.. D ST5 S1 EU

TOW OR WINCH — Lift truck

⚠ IMPORTANT ⚠

Do not tow the lift truck at more than 15 km/h, and abide by local traffic regulations.

- Place the forward/reverse selector and the gear lever in neutral.
- Release the hand brake.
- Switch on the hazard warning lights.

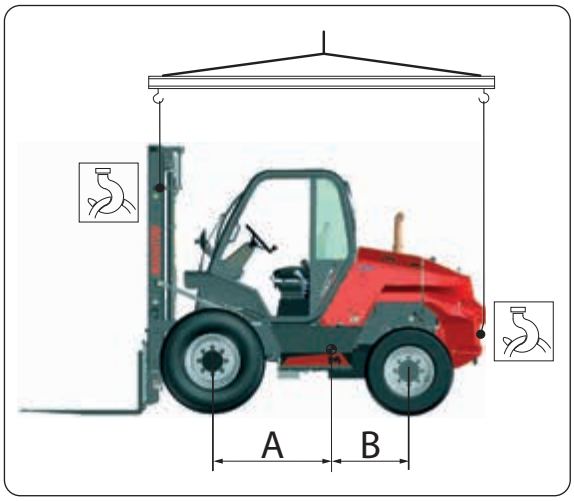
Since there will be no power steering or hydraulic brake assistance, operate the steering and controls slowly and forcefully. Avoid sudden or jerky movements.

SLING — Lift truck

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

A = 1095 mm	B = 900 mm	M26-2 ...
A = 1205 mm	B = 790 mm	M26-4 ...
A = 1265 mm	B = 730 mm	M30-2 ...
A = 1275 mm	B = 720 mm	M30-4 ...
A = 1280 mm	B = 780 mm	M40-2 ...
A = 1320 mm	B = 800 mm	M40-4 ...
A = 1240 mm	B = 820 mm	M50-2 ...
A = 1280 mm	B = 840 mm	M50-4 ...

- Place the sling hooks in the anchorage points 1 provided.



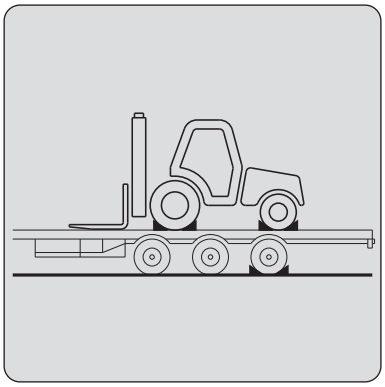
647835M3 (E-08/2024)
M.. D ST5 S1 EU

⚠ IMPORTANT ⚠

Check that the safety instructions relating to the flatbed have been correctly applied before loading the lift truck and that the transport company is informed about the dimensions and the weight of the lift truck (◁ 2 - DESCRIPTION: SPECIFICATIONS).

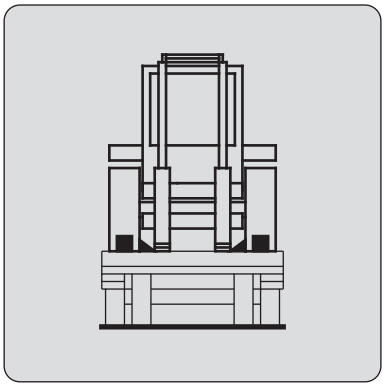
Make sure that the flatbed is large enough and has sufficient loading capacity to carry the lift truck.

Also check the allowable ground contact pressure of the platform relative to the lift truck.



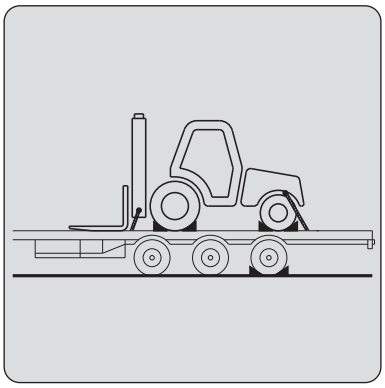
LOADING THE LIFT TRUCK

- 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 (◁ 1 - OPERATING AND SAFETY INSTRUCTIONS: DRIVING INSTRUCTIONS UNLADEN AND LADEN).



STOWING THE LIFT TRUCK

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



647835M3 (E-08/2024)
M.. D ST5 S1 EU

4 - ATTACHMENTS THAT CAN BE ADAPTED TO THE RANGE

4 - ATTACHMENTS THAT CAN BE ADAPTED TO 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 its lift trucks (◁ TECHNICAL SPECIFICATIONS OF ATTACHMENTS).
The manufacturer cannot be held responsible for any modifications or adaptations to attachments 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 weight and center of gravity.
Should the attachment have a lower 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. Solutions exist, consult your dealer.

SUSPENDED LOAD

⚠ IMPORTANT ⚠

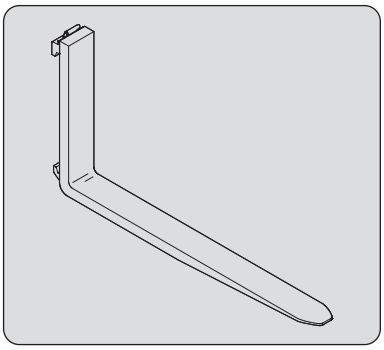
Suspended loads MUST be handled with a lift truck designed for this purpose.

647835M3 (E-08/2024)
M.. D ST5 S1 EU

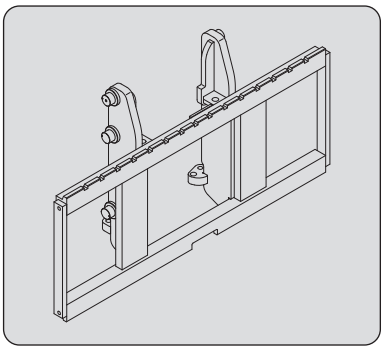
TECHNICAL SPECIFICATIONS OF ATTACHMENTS M26-2 ... / M26-4 ... / M30-2 ... / M30-4

STANDARDIZED FORK

	"ISO A"	"MAN A"
REFERENCE	415446	52608461
Cross-section	125 x 45 x 1200 mm	122 x 40 x 1200 mm
Weight	75 kg	76 kg



STANDARDIZED CARRIAGE



DUPLEX COMPLETE VISIBILITY

REFERENCE	L1470	L1750	L2000
"ISO A"	52587485	52587486	52587487
"ISO A" CL	52586410	52586411	52586412
"MAN A"	52586407	52586408	52586409

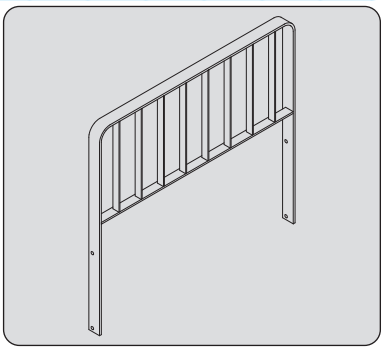
TRIPLEX FREE LIFT

REFERENCE	L1470	L1750	L2000
"ISO A"	52588789	52588791	52588793
"ISO A" CL	52588795	52588797	52588799
"MAN A"	52588801	52588803	52588805

TRIPLEX WITHOUT FREE LIFT

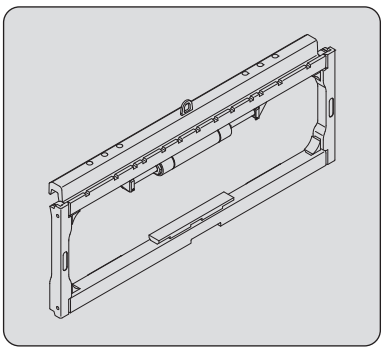
REFERENCE	L1470	L1750	L2000
"ISO A"	52593330	52593332	52593333
"ISO A" CL	52593336	52593338	52593340
"MAN A"	52593342	52593344	52593346

LOAD BACK REST



REFERENCE	52579855	52586271	52586272
Width	1470 mm	1750 mm	2000 mm
Weight	40 kg	46 kg	51 kg

STANDARDISED SIDE-SHIFT CARRIAGE



DUPLEX COMPLETE VISIBILITY

TRIPLEX FREE LIFT

	TDL 100F-SSS-B551	TDL 100F-SSS-B695	TDL 100F-SSS-B514
	L1470	L1750	L2000
REFERENCE	52656054	52656121	52656126
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

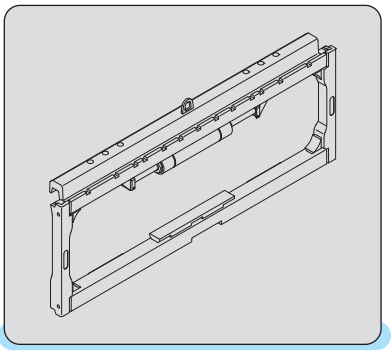
	TDL 65F-SSS-B659	TDL 65F-SSS-3-0003	TDL 100F-SSS-3-0001
	L1470	L1750	L2000
REFERENCE	52754943	52754965	52754971
Rated capacity	3000 kg	3000 kg	3000 kg
Side-shift	2 x 100 mm	2 x 100 mm	2 x 100 mm
Width	1470 mm	1750 mm	2000 mm
Weight	103 kg	129 kg	231 kg

647835M3 (E-08/2024)
M.. D ST5 S1 EU

STANDARDISED SIDE-SHIFT CARRIAGE

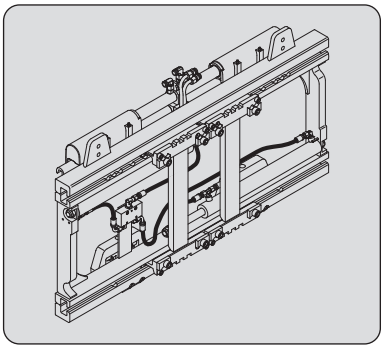
TRIPLEX WITHOUT FREE LIFT

	TDL 100F-SSS-B551	TDL 65F-SSS-B659
	L1470	L1470
REFERENCE	52656054	52754943
Rated capacity	3000 kg	3000 kg
Side-shift	2 x 100 mm	2 x 100 mm
Width	1470 mm	1470 mm
Weight	167 kg	103 kg



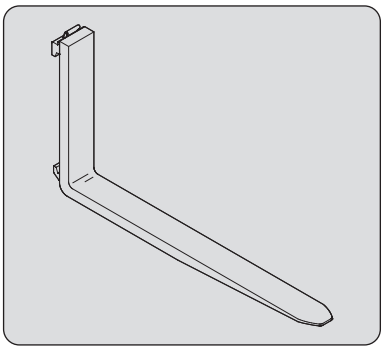
SIDE-SHIFT FORK POSITIONER

	PDF 3,5T466B
REFERENCE	52656058
Rated capacity	3000 kg
Spacing	305-1345 mm
Side-shift	2 x 100 mm
Width	1250 mm
Weight	206 kg



FOURCHE US - 24P

REFERENCE	415125	52610785
Section	125 x 45 x 1500 mm	125 x 45 x 1200 mm
Weight	88 kg	76 kg



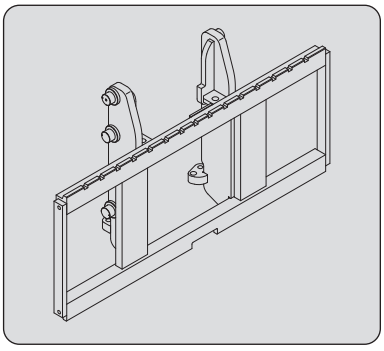
TABLIER US - 24P

DUPLEX COMPLETE VISIBILITY3M70

	L1470	L1750	L2000
REFERENCE	52748733	52749391	52749491

TRIPLEX FREE LIFT 4M30

	L1470	L1750	L2000
REFERENCE	52750135	52750766	52750767



PINCE À BACS US - 24P

DUPLEX COMPLETE VISIBILITY 3M70

TRIPLEX FREE LIFT 4M30

REFERENCE	52743538
Width	1470 mm
Weight	kg

647835M3 (E-08/2024)
M.. D ST5 S1 EU

TECHNICAL SPECIFICATIONS OF ATTACHMENTS M40-2 ... / M40-4 ...

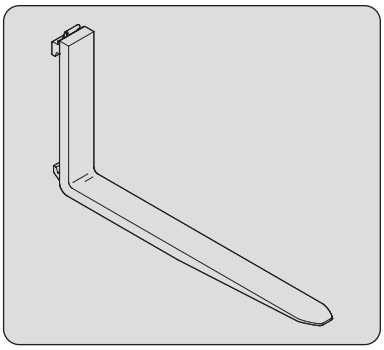
STANDARDIZED FORK

M40-2 ...

	"ISO A"	"MAN A"	"MAN B"
REFERENCE	415449	415493	415217
Cross-section	150 x 50 x 1200 mm	150 x 50 x 1200 mm	150 x 50 x 1200 mm
Weight	128 kg	134 kg	143 kg

M40-4 ...

	"ISO A"	"MAN A"	"MAN B"
REFERENCE	415449	415497	415460
Cross-section	150 x 50 x 1200 mm	150 x 50 x 1200 mm	150 x 50 x 1200 mm
Weight	128 kg	138 kg	148 kg



STANDARDIZED CARRIAGE

DUPLEX COMPLETE VISIBILITY

M40-2 ...

REFERENCE	L1670	L2000
"ISO A"	52663685	52663688
"MAN A"	219278	219283
"MAN B"	219281	219285

M40-4 ...

REFERENCE	L1670	L2000
"ISO A"	52557057	52557058
"MAN A"	219278	219283
"MAN B"	219281	219285

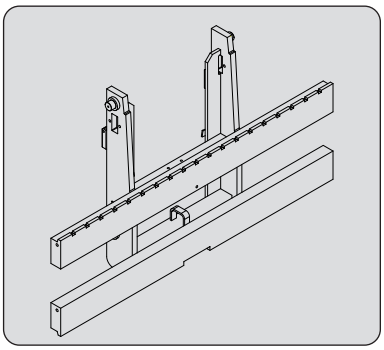
TRIPLEX FREE LIFT

M40-2 ...

REFERENCE	L1670	L2000
"ISO A"	52663690	52663693
"MAN A"	219355	219392
"MAN B"	219593	219594

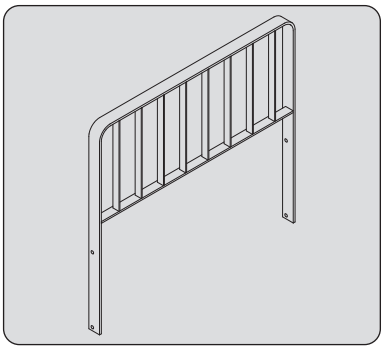
M40-4 ...

REFERENCE	L1670	L2000
"ISO A"	52558137	52558138
"MAN A"	219355	219392
"MAN B"	219593	219594



LOAD BACK REST

REFERENCE	251387	251389
Width	1670 mm	2000 mm
Weight	57 kg	65 kg



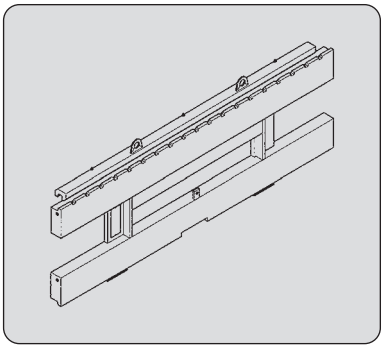
STANDARDISED SIDE-SHIFT CARRIAGE

DUPLEX COMPLETE VISIBILITY

	TDL A 50N L1670	TDL A 50 N L2000
REFERENCE	52696146	52696148
Rated capacity	4700 kg	4700 kg
Side-shift	2 x 100 mm	2 x 100 mm
Width	1670 mm	2000 mm
Weight	383 kg	440 kg

TRIPLEX FREE LIFT

	TDL A 50N L1670	TDL A 50 N L2000
REFERENCE	52696149	52696151
Rated capacity	4000 kg	3600 kg
Side-shift	2 x 100 mm	2 x 100 mm
Width	1670 mm	2000 mm
Weight	335 kg	380 kg

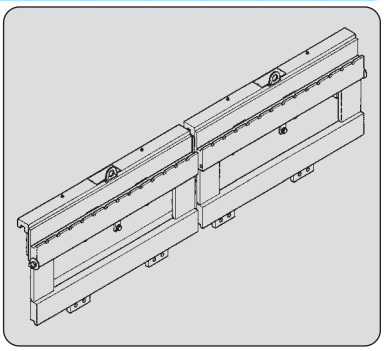


647835M3 (E-08/2024)
M.. D ST5 S1 EU

STANDARD DOUBLE SIDESHIFT CARRIAGE

DUPLEX COMPLETE VISIBILITY

	DTDL A 50 N "FEM A"	DTDL A 50 N "FEM B"
REFERENCE	**52696419**	**52696421**
Rated capacity	2 x 2500 kg	2 x 2500 kg
Side-shift	2 x 150/100 mm	2 x 150/100 mm
Width	2 x 985 mm	2 x 985 mm
Weight	2 x 165 kg	2 x 165 kg



STANDARDIZED FORK

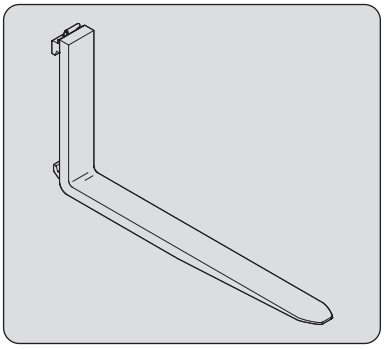
DUPLEX COMPLETE VISIBILITY

M40-2 ...

	"FEM A"	"FEM B"
REFERENCE	**415744**	**415483**
Cross-section	125 x 40 x 1200 mm	125 x 40 x 1200 mm
Weight	65 kg	72 kg

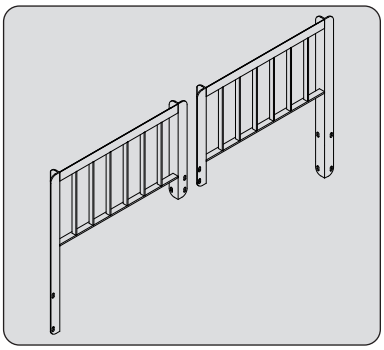
M40-4 ...

	"FEM A"	"FEM B"
REFERENCE	**415745**	**415484**
Cross-section	125 x 40 x 1200 mm	125 x 40 x 1200 mm
Weight	70 kg	70 kg



LOAD BACK REST

REFERENCE	**252826**
Width	2 x 985 mm
Weight	2 x 25 kg



TECHNICAL SPECIFICATIONS OF ATTACHMENTS M50-2 ... / M50-4 ...

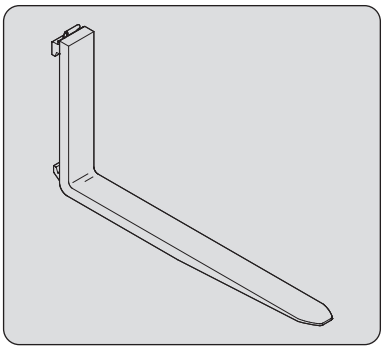
STANDARDIZED FORK

M50-2 ...

	"ISO A"	"MAN A"	"MAN B"
REFERENCE	**415450**	**415495**	**415454**
Cross-section	150 x 60 x 1200 mm	150 x 60 x 1200 mm	150 x 60 x 1200 mm
Weight	128 kg	134 kg	143 kg

M50-4 ...

	"ISO A"	"MAN A"	"MAN B"
REFERENCE	**415450**	**415499**	**415461**
Cross-section	150 x 60 x 1200 mm	150 x 60 x 1200 mm	150 x 60 x 1200 mm
Weight	128 kg	138 kg	148 kg



STANDARDIZED CARRIAGE

DUPLEX COMPLETE VISIBILITY

M50-2 ...

REFERENCE	L1670	L2000
"ISO A"	52663687	52663689
"MAN A"	219279	219282
"MAN B"	219284	219286

M50-4 ...

REFERENCE	L1670	L2000
"ISO A"	52557448	52557449
"MAN A"	219279	219282
"MAN B"	219284	219286

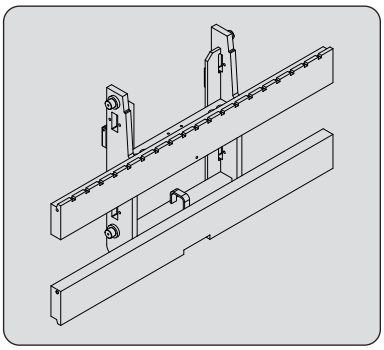
TRIPLEX FREE LIFT

M50-2 ...

REFERENCE	L1670	L2000
"ISO A"	52663692	52663694
"MAN A"	219356	219393
"MAN B"	219592	219595

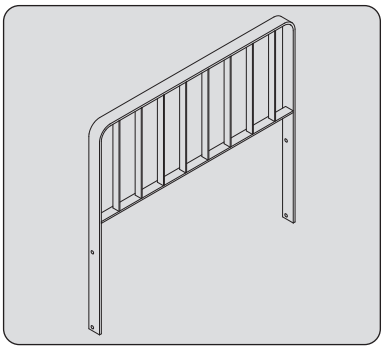
M50-4 ...

REFERENCE	L1670	L2000
"ISO A"	52558318	52558319
"MAN A"	219356	219393
"MAN B"	219592	219595



LOAD BACK REST

REFERENCE	251387	251389
Width	1670 mm	2000 mm
Weight	57 kg	65 kg



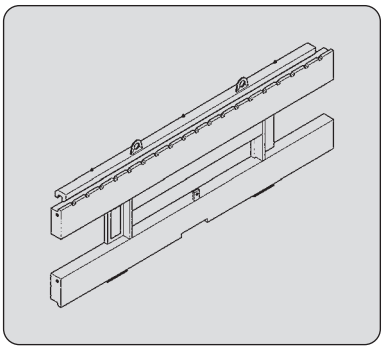
STANDARDISED SIDE-SHIFT CARRIAGE

DUPLEX COMPLETE VISIBILITY

	TDL A 50N L1670	TDL A 50 N L2000
REFERENCE	**52696146**	**52696148**
Rated capacity	4700 kg	4700 kg
Side-shift	2 x 100 mm	2 x 100 mm
Width	1670 mm	2000 mm
Weight	383 kg	440 kg

TRIPLEX FREE LIFT

	TDL A 50N L1670	TDL A 50 N L2000
REFERENCE	**52696150**	**52696152**
Rated capacity	4700 kg	4700 kg
Side-shift	2 x 100 mm	2 x 100 mm
Width	1670 mm	2000 mm
Weight	383 kg	440 kg

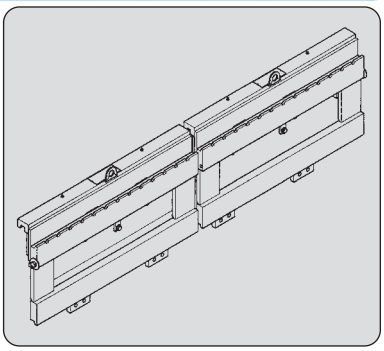


647835M3 (E-08/2024)
M.. D ST5 S1 EU

STANDARD DOUBLE SIDESHIFT CARRIAGE

DUPLEX COMPLETE VISIBILITY

	DTDL A 50 N "FEM A"	DTDL A 50 N "FEM B"
REFERENCE	**52696419**	**52696421**
Rated capacity	2 x 2500 kg	2 x 2500 kg
Side-shift	2 x 150/100 mm	2 x 150/100 mm
Width	2 x 985 mm	2 x 985 mm
Weight	2 x 165 kg	2 x 165 kg



STANDARDIZED FORK

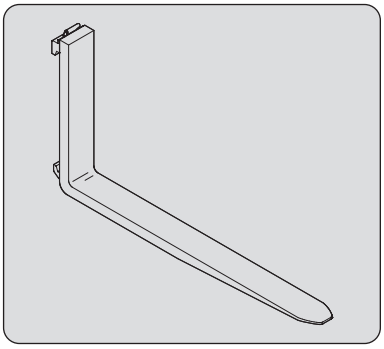
DUPLEX COMPLETE VISIBILITY

M50-2 ...

	"FEM A"	"FEM B"
REFERENCE	**415742**	**415485**
Cross-section	125 x 40 x 1200 mm	125 x 40 x 1200 mm
Weight	68 kg	72 kg

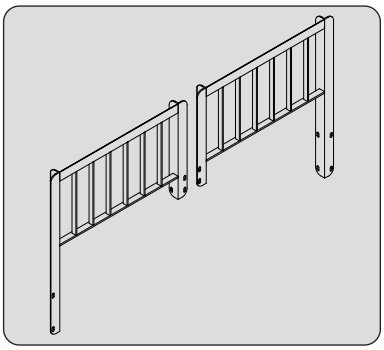
M50-4 ...

	"FEM A"	"FEM B"
REFERENCE	**415746**	**415486**
Cross-section	125 x 40 x 1200 mm	125 x 40 x 1200 mm
Weight	70 kg	74 kg



LOAD BACK REST

REFERENCE	**252826**
Width	2 x 985 mm
Weight	2 x 26 kg



ATTACHMENT GUARDS

FORK GUARD

REFERENCE **227801**