MANITOU

HANDLING YOUR WORLD

647856 EN-USM3 C012025

MLT 630 115D V CP ST5 S1

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.



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Clause regarding database usage restrictions

Connected Manitou machines are equipped with boxes that collect technical data on the machines (such as geo-tracking data or data on component operation). This data, which is organized, processed and enhanced by algorithms and expertise proprietary to Manitou, constitutes a protected database under article L.341-1 of the Intellectual Property Code.

It is strictly forbidden to have access to all or part of this database and to use the data (including in the event of accidental access) without explicit prior authorization from Manitou. In the event that Manitou authorizes a Manitou machine user to access all or part of this database, Manitou, as producer of this database, cedes to the user only a right to personal, non-exclusive, nontransferable use of the database, and only by access to an information technology platform hosted by a server owned or controlled by Manitou.

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- *any use of means to bypass technical protection measures for databases or software source code embedded in the boxes, in keeping with article L.331-5 of the Intellectual Property Code.*

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2 - DESCRIPTION

3 - MAINTENANCE

4 - OPTIONAL ADAPTABLE ATTACHMENTS FOR THE RANGE

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1 - OPERATING AND SAFETY INSTRUCTIONS

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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 operated. 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

- 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 1.25** and a **DYNAMIC TEST COEFFICIENT OF 1**, as specified in harmonized standard **EN 1459** for variable reach machines.
- Before commissioning, the facility manager must make sure that the machine is appropriate for the work to be done, and perform certain tests (in accordance with applicable legislation).

B - ADAPTING THE MACHINE TO USUAL ENVIRONMENTAL CONDITIONS

⚠ IMPORTANT ⚠

Lubricants are filled in the factory for average climatic use, i.e.: -15 °C (4,9 °F) to +35 °C (95 °F).

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.

⚠ IMPORTANT ⚠

The machines are designed for outdoor use under normal atmospheric conditions and indoor use in suitably aerated and ventilated premises. It is prohibited to operate the machine in areas which presents a risk of fire or which are potentially explosive (e.g. refineries, fuel or gas depots, stores of flammable products, etc.).

Specialized equipment is available when operating in these areas (ask your dealer for information).

- Our machines are designed to be used within a temperature range of -18 °C (-0.4°F) to +43 °C (109.4°F).
- In addition to the standard equipment fitted on your machine, many options are available, such as: road lighting, stop lights, rotating beacon light, reverse lights, front worklight, rear worklight, lifting structure worklight, etc. (depending on machine model).
- 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 operation site. Consult your dealer for the suitability of lubricants and frost protection.
- Take into account the fire risk 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.

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Our machines comply with Directive 2014/30/EU (2015/208/EU for our type-approved "TRACTOR" machines) 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 (20 V/m).

- 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 minimizing 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.
  - The seat is an essential way of reducing the vibrations transmitted to the operator. In the event of seat replacement, please contact MANITOU.
  - 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

⚠ IMPORTANT ⚠

Modifying the structure and settings of the various components of your machine (hydraulic pressure, taring of limiters, engine speed, sensors, addition of extra equipment, addition of counterweights, unapproved and unauthorized attachments, alarm systems, etc.) yourself is strictly prohibited. In this case, the manufacturer cannot be held responsible.

D - FRENCH ROAD TRAFFIC RULES

(or see current legislation in other countries)

- Only one EC declaration of conformity is issued. It must be kept in a safe place.
- The road traffic rules for the machines are subject to the provisions of the highway code, according to the following categories:
  - Construction machinery (MT range): public works vehicle not predominantly for use on roads (point 6.9 of Article R.311-1 of the French Highway Code). The machine must have a 25 disc displayed on the rear of the machine and an operating license plate.
  - Non-type-approved "Tractor" machinery for agricultural work: (point 6.2 of Article R.311-1 of the French Highway Code). The machine must be fitted with an operating license plate.
  - Type-approved "Tractor" machinery for agricultural work: Agricultural tractor type T1a (point 5.1.1 of Article R.311-1 of the French Highway Code). The machine must be licensed.

SPECIAL INSTRUCTIONS APPLICABLE TO TYPE-APPROVED "TRACTOR" MACHINES

- All approved machines are supplied with a "Tractor" certificate of compliance with Regulation 167/2013, to be retained by the owner, and a page of administrative details together with a CNIT number (national type approval code) for registration at the prefecture.
- The owner of the machine is responsible for carrying out the necessary procedures for obtaining the vehicle registration document within the time limit defined by the regulations.
- The operator must hold a category B driver's license, unless granted an exemption.
- The machine must be driven on the public highway in accordance with the instructions given in the manual supplied with the machine (Gross weight, Gross combination weight, towing load, axle loads, maximum speeds, etc. according to the type/version). The operator must be in possession of the machine's registration document.

⚠ IMPORTANT ⚠

When towing a trailer or agricultural equipment, the traveling speed of the machine is limited to 25 km/h.

In this case, a "25" disc must be affixed to the rear of the convoy.

E - MACHINE CAB PROTECTION

- All machines comply with standard ISO 3471 Roll-over Protective Structures (ROPS)
- All machines comply with standard ISO 3449 Falling-Object Protective Structures (FOPS) (Level I or II) (◁ 2 - DESCRIPTION OF STICKERS AND PLATES)
- The windows used on our machines comply with standard ECE-R43 Operator Protective Structures (OPS).
- Approved "TRACTOR" machines also comply with the regulations:
  - (appendix 1322/2014-OCDE Code 4).
  - (appendix 1322/2014-OCDE Code 10).

⚠ IMPORTANT ⚠

Structural damage or overturning, a modification, changes or a poorly executed repair can reduce the protective efficiency of the cab, canceling its compliance.

Do not perform welding or drilling on the cab structure.

Consult your dealer to determine the limits of this structure without canceling its compliance.

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INSTRUCTIONS

- The operator's manual must always be in good condition, in the language of the operator and placed in the storage compartment provided.
- The operator's manual and any plates or stickers which are no longer legible or are damaged, must be replaced immediately.

MAINTENANCE

⚠ IMPORTANT ⚠

Refer to chapter: MACHINE MAINTENANCE INSTRUCTIONS.

⚠ 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.

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

INSTRUCTIONS FOR THE OPERATOR

FOREWORD

⚠ IMPORTANT ⚠

The risk of accident while using, servicing or repairing this machine can be reduced if you follow the safety instructions and preventive measures detailed in this instruction 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.

⚠ IMPORTANT ⚠

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 maneuvers described in these 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.
- At all times, as an operator, you must envisage, within reason, the possible risk to yourself, to others or to the machine when you use it.
- The operator is responsible for the machine in all circumstances, regardless of whether he is present in the driver's cab.

GENERAL INSTRUCTIONS

A – OPERATOR'S MANUAL

⚠ IMPORTANT ⚠

Carefully read and understand this operator's manual before operating this machine.

- The operator's manual must always be in good condition, in the language of the operator and placed in the storage compartment provided.
- Any operations or maneuvers not described in the operator's manual are proscribed.
- Follow the safety advice and the instructions described on the machine's stickers.
- Familiarize yourself with the machine on the ground where it will be operated.
- You must replace the instruction manual, as well as any plates or stickers, if they are no longer legible or are missing or 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 empowered to authorize the driving of the machine by another person.

C - MAINTENANCE

- If the operator sees that the machine is not in good working order or does not comply with the safety instructions, he 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 the machine properly cleaned if this is his responsibility.
- The operator must carry out the daily maintenance (◁ 3 - MAINTENANCE) before using the machine in his place of work.
- The operator is responsible for deciding and adjusting the frequency and type of the 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 (e.g. engine compartment, under the lifting structure, above the axles, inside the chassis, etc.).

D - TIRES

⚠ IMPORTANT ⚠

Do not use the machine if the wheels are damaged or excessively worn, because this could put your own safety or that of others at risk, or cause damage to the machine.

- The operator must ensure tires are suitable for the nature of the ground (see contact surface with the ground for the tires in the chapter: 2 - DESCRIPTION: TIRES). Optional solutions are available, please consult your dealer.
  - SAND tires.
  - FARM tires.
  - Snow chains.
- The machine's four tires must be the same brand, the same dimensions, the same structure (radial or diagonal) and the same usage category (normal, snow or special), and must have the same degree of tread wear.
- In the event of tire replacement, use tires authorized by MANITOU that are the same type and dimensions. Using different tires voids the machine's type approval and you may be liable.
- If you are replacing just one of the machine's tires (e.g. because it is damaged), we recommend choosing a tire with the same degree of wear as the remaining tires so as not the damage the transmission's kinematic chain.

⚠ 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.

E - MODIFYING THE MACHINE

- ◁ INSTRUCTIONS TO THE COMPANY MANAGER: ◁ C - MODIFYING THE MACHINE.

F - LIFTING PEOPLE

- The use of working equipment and load lifting attachments to lift people is:
  - either forbidden
  - or authorized exceptionally and under certain conditions (◁ regulations in force in the country in which the machine is used).
- The pictogram posted at the operator station reminds you that:
  Left-hand column
  - It is forbidden to lift people, with any kind of attachment, using a non PLATFORM-fitted machine.

  Right-hand column
  - With a PLATFORM-fitted machine, people can only be lifted using platforms designed by MANITOU for this purpose.
- MANITOU sells equipment specifically designed for lifting people (OPTION PLATFORM-fitted machine; contact your dealer).



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 object may hinder the 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 horn works.

B - AVAILABLE IN THE DRIVER'S CAB

- 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 driver's cab access when getting in and out of the lift truck and use the handle(s) provided for this purpose. 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.

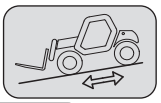
⚠ IMPORTANT ⚠

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

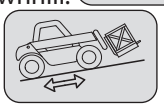
- The operator must always be in his normal position in the driver's cab: Arms and legs, and generally any part of the body, should be kept inside the driver's cab of the machine.
- The safety belt must be worn and adjusted to the operator's size.
- The control units must never be used for any other 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 brake is 20%.
- When using the lift truck on a transverse slope, before lifting the lifting structures, observe the instructions given in the paragraph: INSTRUCTIONS FOR HANDLING A LOAD: D - TRANSVERSE ATTITUDE OF THE MACHINE.
- 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.

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- 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 and/or stabilizers before lifting or removing the load. If necessary, add appropriate wedging under the stabilizers.
- Make sure that the scaffolding, loading platform, pilings or ground is capable of bearing the load.
- Never stack loads on uneven ground, they may tip over.

⚠ IMPORTANT ⚠

If the load or the attachment must remain above a structure for a prolonged period of time, there is the risk that it will bear on the structure as the lifting structure descends due to cooling of the oil in the cylinders.

To eliminate this risk:

- Regularly check the distance between the load or the attachment and the structure and readjust this if necessary.

- If possible use the machine at an oil temperature as close as possible to ambient temperature.

- 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 ⚠

Do not operate this machine during thunderstorms, snowstorms, periods of frost, or in hazardous weather conditions.

⚠ IMPORTANT ⚠

You must consult your local electrical supplier.

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

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 the fire risk 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 boom 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,
  - in any case, avoid reversing over long distances.
- Certain special accessories may require the machine to travel with the boom in the raised position. In such cases, visibility on the right hand side is restricted, and special precautions must be taken:
  - site layout,
  - assisted by a person directing the operation (while standing outside the machine's area of travel).
  - replacement of a suspended load by a load on a pallet.
- 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).

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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 in charge.

INSTRUCTIONS

- Check the closing and locking of the hood(s).
- Check that the cab door is closed.
- Firmly press and hold down the brake pedal.
- Turn the ignition key to position (I) to switch on the machine and the engine preheat system.
- Check that the forward/reverse selector is in neutral, and that the manual parking brake is on.
- Check the fuel level on the dashboard gauge.
- Check the DEF (diesel exhaust fluid) level on the dashboard gauge. **(depending on machine model)**
- Turn the ignition key to position (III) for no longer than 15 seconds. The engine should then start. Release the ignition key and let the engine run at idling speed.
- Preheat the engine between each start attempt.
- Make sure all the signal lights on the control instrument panel are off.
- Do not use a machine that is non-compliant.
- Check all control instruments when the engine is warm and at regular intervals during use, so as to quickly detect any faults and to be able to correct them without any delay.
- If an instrument does not show the correct display, stop the engine and immediately carry out the necessary operations.

F - 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., at 300 mm (11.81 in) from the ground, the boom retracted and the forks carriage sloping backwards.
- Only carry loads which are balanced and properly anchored to avoid any risk of a load falling off.
- Ensure that pallets, cases, etc. are in good order and suitable for the load to be lifted.
- Familiarize yourself with the machine on the terrain where it will be used.
- Ensure that the brakes are working properly.
- The loaded machine must not travel at speeds in excess of 12 km/h (7.46 mph).
- Drive smoothly at an appropriate speed for the operating conditions (land configuration, load on the machine).
- Do not use the hydraulic boom controls when the machine is moving.
- Never change the steering mode whilst driving.
- Ensure that visibility is adequate.
- Do not maneuver the machine with the boom in the raised position unless under exceptional circumstances and then with extreme caution, at very low speed and using gentle braking.
- 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 on 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 around 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 from the ground, the telescopic arm retracted and the forks carriage sloping backward.
- For machines with gearboxes, use the recommended gear (◅ 2 - DESCRIPTION: INSTRUMENTS AND CONTROLS).
- Select the steering mode appropriate for the use and/or working conditions (◅ 2 - DESCRIPTION: INSTRUMENTS AND CONTROLS) **(depending on machine model)**.
- Deactivate the parking brake.
- Shift the forward/reverse selector to the selected direction of travel and accelerate gradually until the machine moves off.

⚠ IMPORTANT ⚠

Starting and moving the machine on a slope may be a real hazard.

If the machine is parked or stopped, adhere scrupulously to the following instructions for moving it:

- Press the brake pedal.

- Release the parking brake.

- Engage the appropriate gear. **(depending on machine model)**

- Select forward or reverse direction.

- Ensure that there is no one or anything impeding the movement of the machine.

- Release the brake pedal and accelerate the engine.

The use of the machine loaded or with a trailer increases the risk. In this case, remain extremely vigilant.

Each braking system operates independently.

In an emergency, use the brake pedal and/or the manual parking brake to immobilize the machine.

With the engine off, release the manual parking brake only after restarting the engine and making sure that the brake pedal is functional.

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 level ground.
- When parking on slopes of less than 15%, position the machine perpendicular to the slope.
- The slope must not exceed 15%.
- Press and hold the brake pedal.
- Set the forward/reverse selector to neutral.
- Activate the parking brake.
- Release the brake pedal.
- The machine must be stationary before leaving the driver's cab.
- Fully retract the telescopic arm.
- 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 and remove the key.
- Lock all the openings to the machine (doors, windows, cowls, etc.).
- Turn the battery cut-off to the "OFF" position in accordance with the recommendations (◅ 2 - DESCRIPTION).

H - DRIVING THE MACHINE ON THE PUBLIC HIGHWAY

(or see current legislation in other countries)

FRENCH ROAD TRAFFIC RULES

- The driving of non-type-approved "Tractor" machines on the public highway is subject to the provisions of the French Highway Code relating to special machines, defined in Article R.311-1 of the French Highway Code, in category B of the Equipment Order of November 20, 1969, which determines the procedures applicable to special machines. The machine must be fitted with an operating license plate.
- The driving of type-approved "Tractor" machines on the public highway is subject to the provisions of the French Highway Code relating to agricultural tractors, defined in Article R.311-1 of the French Highway Code. The machine must be licensed.
- The machine must be driven on the public highway in accordance with the instructions given in the manual supplied with the machine (Gross weight, Gross combination weight, towing load, axle loads, maximum speeds, etc. according to the type/version). The operator must be in possession of the machine's registration document.
- The operator must hold an HGV license, unless granted an exemption.
- When towing a trailer or agricultural equipment, the travel speed of the machine is limited to 25 km/h. In this case, a "25" disc must be affixed to the rear of the convoy.

GERMAN ROAD TRAFFIC RULES

⚠ IMPORTANT ⚠

For machines with the "Allgemeine Betriebserlaubnis" (general operating permit or ABE, in accordance with Article 20 of the StVZO "Straßenverkehrs-Zulassungsordnung"), follow the instructions below:

- Disconnect the reversing sound alarm before using a machine with a general operating permit (ABE) on the public highway.

⚠ IMPORTANT ⚠

Always reconnect the sound alarm before handling on private roads.

- Before you use the machine for handling operations on private roads:
  - Make sure that the machine's reversing sound alarm is connected and working properly.
  - Perform a functional test by putting the machine into reverse gear.
  - The audible alarm sounds.
  - Do not use the machine if the audible alarm is not working. Check the audible alarm's connection and repeat the test. Consult your dealer if the problem persists.

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.
- Check the cleanliness of the machine's mudguards.
- Check the general cleanliness of the machine before driving on public roads.
- Switch off the worklights if the machine is fitted with them.
- Select the steering mode "HIGHWAY TRAFFIC" (◁ 2 - DESCRIPTION: INSTRUMENTS AND CONTROLS) (depending on machine model).
- Fully retract the telescopic arm and set the attachment approximately 300 mm (11.81 in) off the ground.
- Put the frame leveling in the central position, i.e., the transverse axis of the axles parallel to the frame (depending on the machine model).
- Fully raise the stabilizers and turn the shoes inwards (depending on the machine model).

⚠ 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.

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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 authorizes 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.

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 (◅ 2 - DESCRIPTION: SPECIFICATIONS).

IF NECESSARY, CONSULT YOUR DEALER.

A - CHOICE OF ATTACHMENTS

- Only attachments approved and authorized by MANITOU can be used on its machines.
- Make sure the attachment is suitable for the work to be done (◁ 4 - ADAPTABLE ATTACHMENTS AS OPTIONS ON THE RANGE).
- If the machine is equipped with the single sideshift attachment OPTION (TSDL), use only the authorized attachments (◁ 4 - ADAPTABLE ATTACHMENTS AS OPTIONS 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 slung load without the attachment provided for the purpose, as there is a risk of the sling slipping (◁ INSTRUCTIONS FOR HANDLING A LOAD: H - PICKING UP AND PUTTING DOWN A SUSPENDED LOAD).
- Do not handle loads suspended by straps directly on the forks (e.g.:big bags), as there is a risk of shearing on sharp edges. Use an attachment designed for this purpose.

B - WEIGHT OF LOAD AND CENTER OF GRAVITY

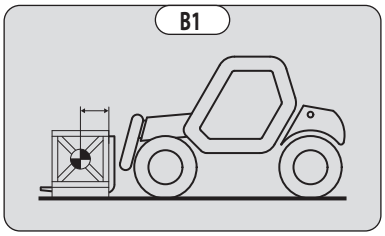
- Before picking up a load, you must know its weight and its center of gravity.
- The longitudinal position of the center of gravity in relation to the heel of the forks (Fig. B1) is defined on the load chart for your machine (◁ 2 - DESCRIPTION: DIMENSIONS AND LOAD CHARTS). For loads with center of gravity 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 ⚠

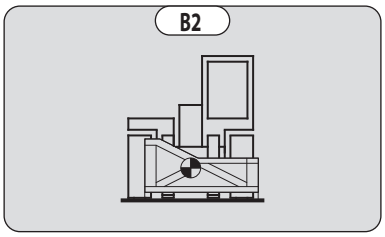
It is forbidden to handle a load heavier than the effective capacity defined on the machine load chart.

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.

B1



B2



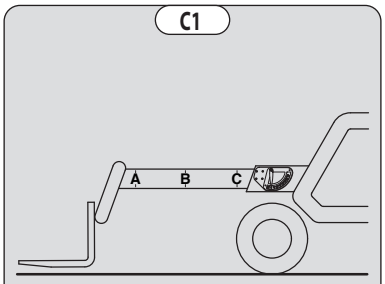
C - LONGITUDINAL STABILITY INDICATOR

⚠ IMPORTANT ⚠

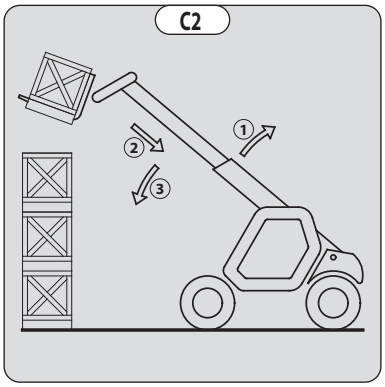
Always watch this device during handling operations.

- Letters and angle indicator (fig. C1) allow to read and respect load capacites of the lifttruck according to the load chart (◁ 2 - DESCRIPTION: LOAD CHART).
- When the device is in limit stability, it is forbidden to perform so-called «AGGRAVATING» movements, these being:
  - A - Extending the boom.
  - B - Lowering the boom.
- Perform movements to relieve aggravation in the following order (fig. C2): if necessary,raise the boom (1), retract the boom as far as possible (2) and lower the boom (3) to release theload.

C1



C2



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D - TRANSVERSE ATTITUDE OF THE MACHINE

Depending on machine model

The transverse attitude is the transverse slope of the frame with respect to the horizontal. Raising the boom reduces the machine's lateral stability. The machine's transverse attitude must be set with the boom in the down position as follows:

1 - MACHINE WITHOUT FRAME LEVELING USED ON TIRES

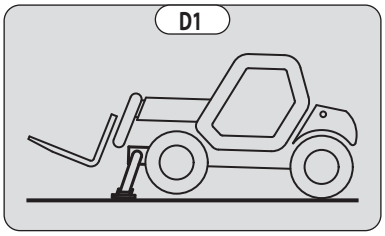
- Position the machine so that the bubble in the level is between the two lines (◁ 2 - DESCRIPTION: INSTRUMENTS AND CONTROLS).

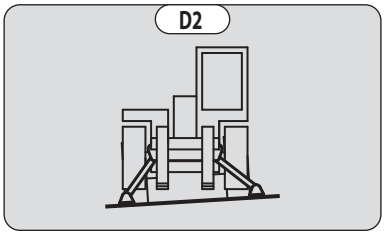
2 - MACHINE WITH FRAME LEVELING USED ON TIRES

- Correct the tilt using the hydraulic control and check the horizontality with the spirit level. The bubble of the level must be between the two lines (◁ 2 - DESCRIPTION: INSTRUMENTS AND CONTROLS).

3 - MACHINE USED ON STABILIZERS

- Set the two stabilizers on the ground and raise the two front wheels of the machine (fig. D1).
- Correct the tilt using the stabilizers (Fig. D2) and check the horizontality with the spirit level. The bubble of the level must be between the two lines (◁ 2 - DESCRIPTION: INSTRUMENTS AND CONTROLS). In this position, the two front wheels must be off the ground.





E - PICKING UP A LOAD ON THE GROUND

- Approach the machine perpendicular to the load, with the boom retracted and the forks in a horizontal position (fig. E1).
- Adjust the fork spacing and centering relative to the load to ensure stability (Fig. E2) (optional solutions exist, consult your dealer).
- Never lift a load with a single fork.

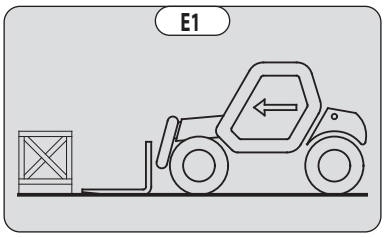
⚠ IMPORTANT ⚠

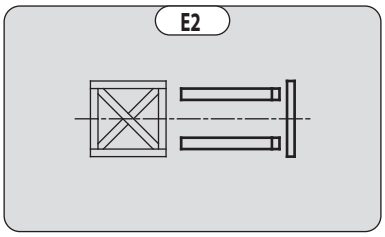
Beware of the risks of trapping or squashing limbs when manually adjusting the forks.

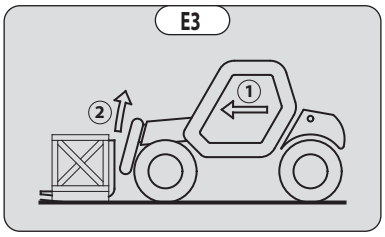
- Move the machine forward slowly (1) and bring the forks up to the stop in front of the load (Fig. E3). If necessary, slightly lift the boom (2) while picking up the load.
- Bring the load into the transport position.
- Tilt the load far enough backward to ensure stability (loss of load on braking or going downhill).

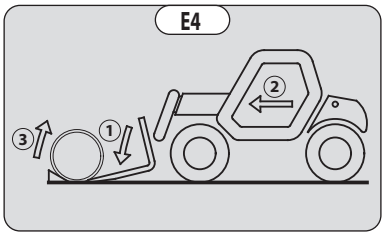
FOR A NON-PALLETIZED LOAD

- Tilt the carriage (1) forwards and move the machine slowly forwards (2), to insert the fork under the load (Fig. E4) (chock the load if necessary).
- Continue to move the machine (2) forward, tilting the carriage (3) (fig. E4) backward to position the load on the forks and check the load's longitudinal and lateral stability.









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F - PICKING UP AND PUTTING DOWN A HIGH LOAD ON TIRES

⚠ IMPORTANT ⚠

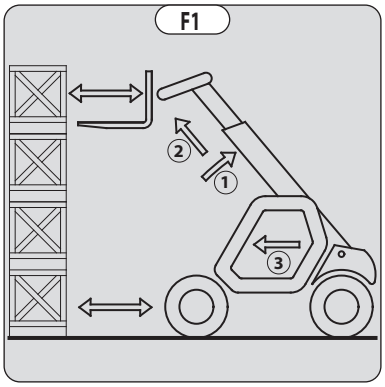
You must not raise the boom if you have not checked the transverse attitude of the machine(◁ INSTRUCTIONS FOR HANDLING A LOAD D - TRANSVERSE ATTITUDE OF THE MACHINE).

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

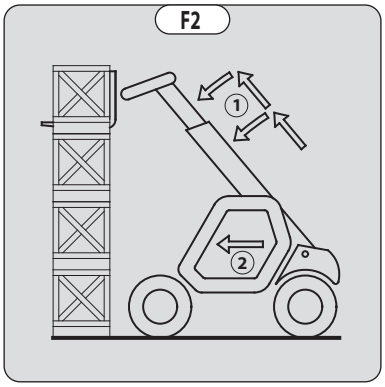
PICKING UP A HIGH LOAD ON TIRES

- Ensure that the forks will easily pass under the load.
- Raise and extend the boom (1) (2) until the forks are at the level of the load. If necessary, move the machine (3) forward (fig. F1), driving very slowly and carefully.
- Always remember to keep the distance necessary for inserting the forks under the load, between the stack and the machine (fig. F1) and use the shortest possible length of boom.
- Insert the forks under the load as far as they will go by alternately extending and lowering the boom (1) or, if necessary, moving the machine forward (2) (fig. F2). Activate the parking brake and place the forward/reverse selector in neutral.
- Lift the load slightly (1) and tilt the carriage (2) backwards to stabilize the load (Fig. F3).
- Tilt the load sufficiently backward to ensure its stability.
- Monitor the longitudinal stability indicator (◁ INSTRUCTIONS FOR HANDLING A LOAD: C - LONGITUDINAL STABILITY INDICATOR). If it is overloaded, set the load back down in the place from which it was picked up.
- If possible, lower the load without moving the machine. Raise the boom (1) to release the load, retract (2) and lower the jib (3) to set the load into transport position (fig. F4).
- If this is not possible, reverse the machine (1), maneuvering very gently and carefully to release the load. Retract (2) and lower the boom (3) to bring the load into the transport position (fig. F5).

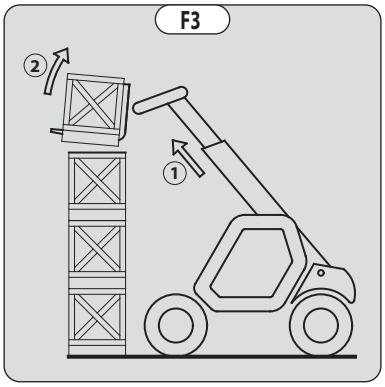
F1



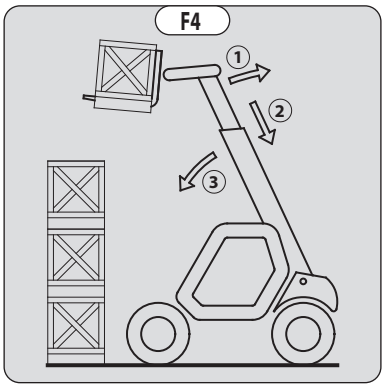
F2



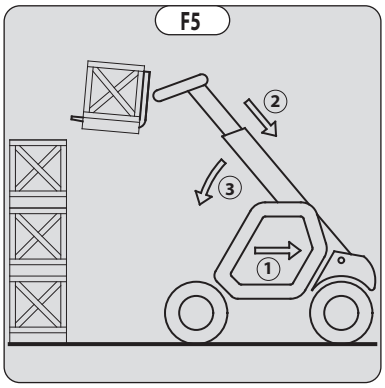
F3



F4



F5

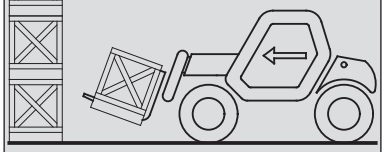


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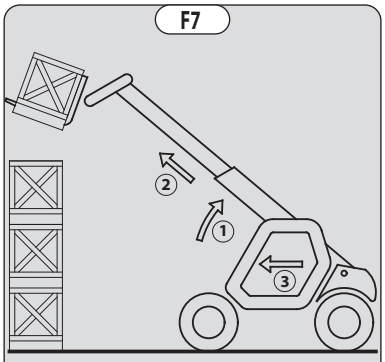
PUTTING DOWN A HIGH LOAD ON TIRES

- Approach the load in the transport position in front of the stack (Fig. F6).
- Activate the parking brake and place the forward/reverse selector in neutral.
- Raise and extend the boom (1) (2) until the load is above the stack, while monitoring the longitudinal stability indicator (◁ INSTRUCTIONS FOR HANDLING A LOAD: C - LONGITUDINAL STABILITY INDICATOR). If necessary, move the lift truck (3) forward (fig. F7), driving very slowly and carefully.
- Place the load in a horizontal position and put it down on the pile by lowering and retracting the boom (1) (2) in order to position the load correctly (Fig. F8).
- If possible, release the forks by alternately retracting and raising the boom (1) (Fig. F9). Then set the forks into transport position.
- If this is not possible, reverse the machine (1), maneuvering very slowly and carefully to release the forks (fig. F10). Then set the forks into transport position.

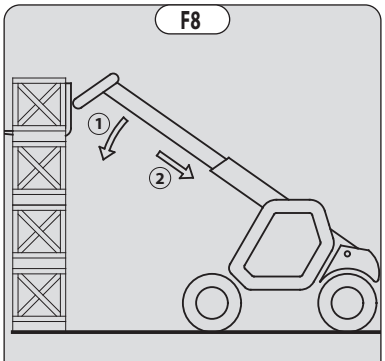
F6



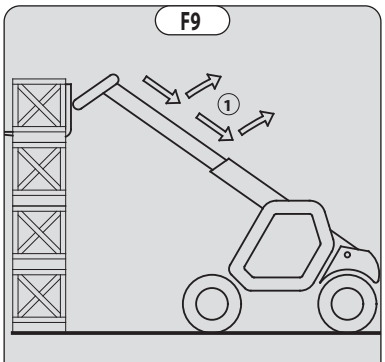
F7



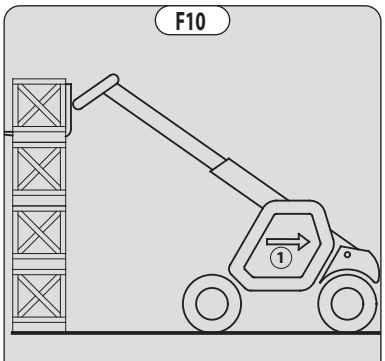
F8



F9



F10



G - PICKING UP AND PUTTING DOWN A HIGH LOAD ON STABILIZERS

Depending on machine model

⚠ IMPORTANT ⚠

You must not raise the boom if you have not checked the transverse attitude of the machine(◁ INSTRUCTIONS FOR HANDLING A LOAD D - TRANSVERSE ATTITUDE OF THE MACHINE).

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

The stabilizers are used to optimize the machine's lifting performance (◁ 2 - DESCRIPTION: INSTRUMENTS AND CONTROLS).

POSITIONING THE STABILIZERS WITH THE FORKS IN TRANSPORT POSITION (UNLADEN AND LADEN)

- Set the forks in transport position in front of the elevation.
- Stay far enough away to allow the boom to be raised.
- Activate the parking brake and place the forward/reverse selector in neutral.
- Set the two stabilizers on the ground and lift the two front wheels of the machine (fig. G1), while maintaining its transverse stability.

RAISING THE STABILIZERS WITH THE FORKS IN TRANSPORT POSITION (UNLADEN AND LADEN)

- Raise both stabilizers fully and at the same time.

LOWERING THE STABILIZERS WITH JIB UP (UNLADEN AND LADEN)

⚠ IMPORTANT ⚠

This operation must be exceptional and performed with great care.

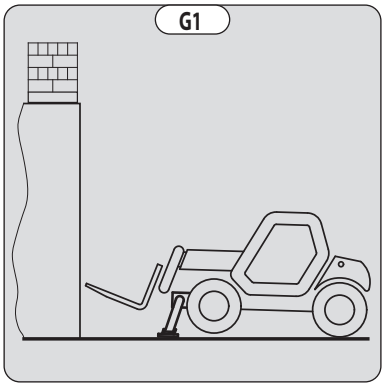
- Raise the boom and retract the telescopes completely.
- Set the machine in position in front of the elevation (fig. G2), moving very slowly and carefully.
- Activate the parking brake and place the forward/reverse selector in neutral.
- Move the stabilizers very slowly and gradually as soon as they are close to the ground or in contact with it.
- Lower the two stabilizers and lift the two front wheels of the machine (fig. G3). During this operation, transverse attitude must be permanently maintained: the bubble in the level must be kept between the two lines.

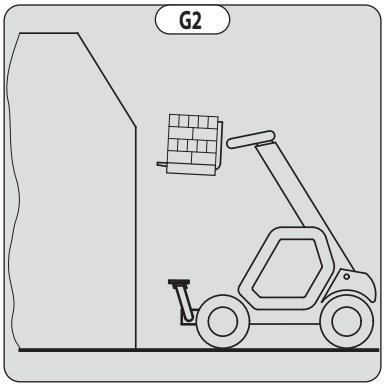
SETTING THE STABILIZERS WITH THE BOOM UP (UNLADEN AND LADEN)

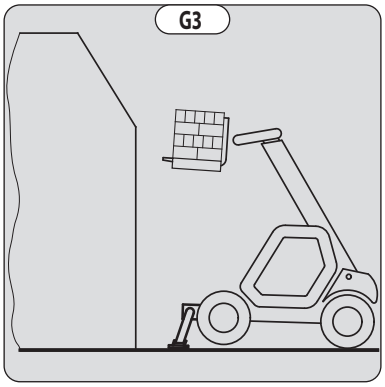
⚠ IMPORTANT ⚠

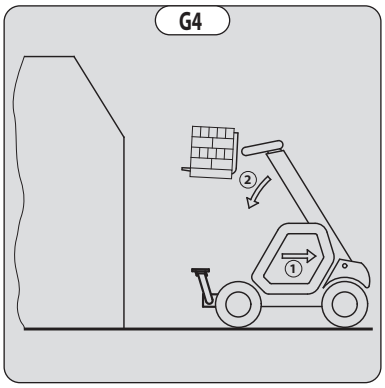
This operation must be exceptional and performed with great care.

- Keep the boom raised and retract the telescopes completely (Fig. G3).
- Move the stabilizers very slowly and gradually as soon as they are in contact with the ground and when they leave the ground. During this operation, transverse attitude must be permanently maintained: the bubble in the level must be kept between the two lines.
- Raise both stabilizers completely.
- Deactivate the parking brake and reverse the machine (1) very slowly and carefully to release it and lower the forks (2) into transport position (fig. G4).



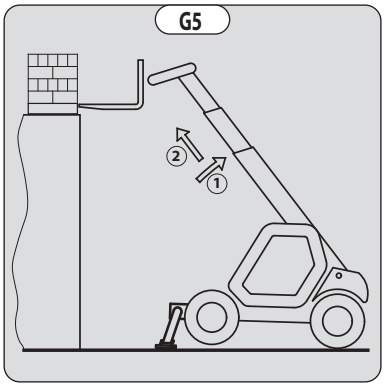


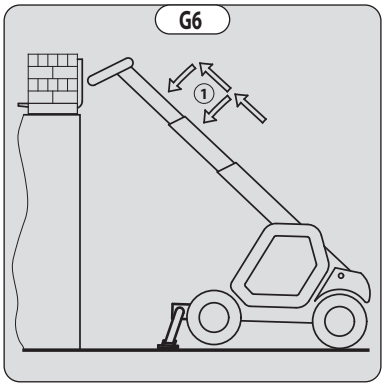


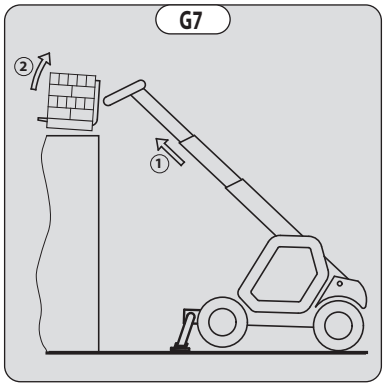


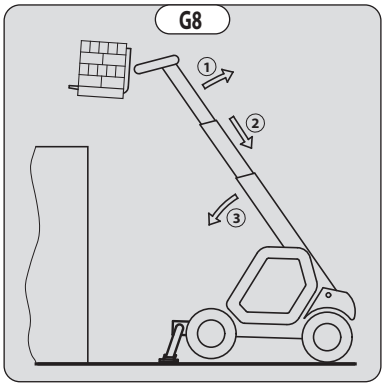
PICKING UP A HIGH LOAD ON STABILIZERS

- Ensure that the forks will easily pass under the load.
- Check the position of the machine with respect to the load and make a test run, if necessary, without picking up the load.
- Raise and extend the boom (1) (2) until the forks are at the level of the load (Fig. G5).
- Bring the forks to the stop in front of the load by alternately extending and lowering the boom (1) (Fig. G6).
- Lift the load slightly (1) and tilt the carriage (2) backwards to stabilize the load (Fig. G7).
- Monitor the longitudinal stability indicator (◁ INSTRUCTIONS FOR HANDLING A LOAD: C - LONGITUDINAL STABILITY INDICATOR). If it is overloaded, set the load back down in the place from which it was picked up.
- If possible, lower the load without moving the machine. Raise the boom (1) to release the load, retract (2) and lower the jib (3) to set the load into transport position (fig. G8).



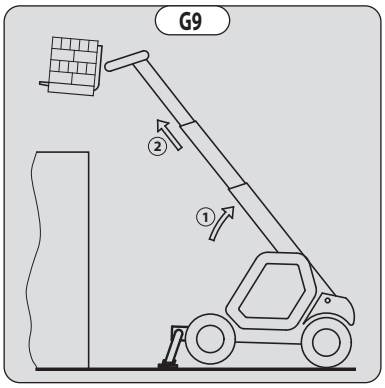


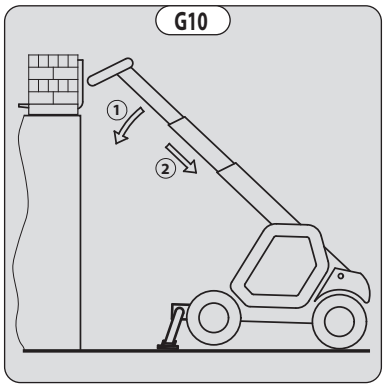


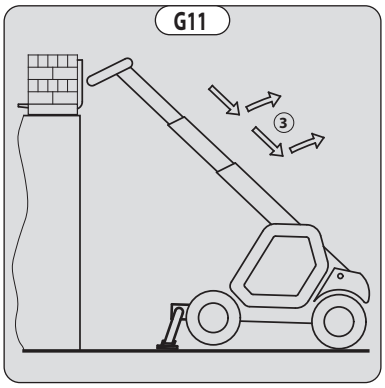


SETTING DOWN A HIGH LOAD ON STABILIZERS

- Raise and extend the boom (1) (2) until the load is above the elevation (fig. G9), while monitoring the longitudinal stability indicator (◁ INSTRUCTIONS FOR HANDLING A LOAD: C - LONGITUDINAL STABILITY INDICATOR).
- Position the load horizontally and release it by lowering and retracting the boom (1) (2) to position the load correctly (Fig. G10).
- Free the forks by alternately retracting and raising the boom (3) (Fig. G11).
- If possible, set the boom in transport position without moving the machine.







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H - PICKING UP AND PUTTING DOWN A SUSPENDED LOAD

⚠ IMPORTANT ⚠

Failure to follow the above instructions may lead the machine to lose stability and overturn.

MUST be used with a machine equipped with an operational hydraulic movement cut-off device.

CONDITIONS OF USE

- The length of the sling or the chain shall be as short as possible to limit swinging of the load.
- Lift the load vertically along its axis, never by pulling sideways or lengthways.

HANDLING WITHOUT MOVING THE MACHINE

- Whether on stabilizers or on tires, the lateral attitude must not exceed 1% and the longitudinal attitude must not exceed 5%: the bubble of the level must be held at "0".
- Ensure that the wind speed is not higher than 10 m/s (32,8 fps).
- Ensure that there is no one between the load and the machine.

I - TRAVELING WITH A SUSPENDED LOAD

- Before moving, inspect the terrain in order to avoid excessive slopes and cross-falls, bumps and potholes, or soft ground.
- Ensure that the wind speed is not higher than (36 km/h 22,36 mph)
- The machine must not travel at more than 0.4 m/s (1.5 km/h (0.93 mph), i.e. one quarter walking speed).
- Drive and stop the machine gently and smoothly to minimize swinging of the load.
- Carry the load a few centimeters above the ground (max. 30 cm (11.81 in) the shortest possible jib length. Do not exceed the offset indicated on the load chart. If the load begins to swing excessively, do not hesitate to stop and lower the jib to set down the load.
- During transport, the lift truck operator must be assisted by a person on the ground (standing a minimum
- of 3 m (9 ft 10 in) from the load), who will limit swinging of the load using a bar or a rope. Ensure that this person is always clearly in view.
- The lateral attitude must not exceed 5%: the bubble in the level must be kept between the two "MAX" marks.
- The longitudinal attitude must not exceed 15% with the load facing uphill and 10% with the load facing downhill.
- The boom angle must not exceed 45°.

INSTRUCTIONS FOR USE AS A LOADER

For agricultural-type machines (MLT range)

A - LOADING

⚠ IMPORTANT ⚠

You must not raise the boom if you have not checked the transverse attitude of the machine(◁ INSTRUCTIONS FOR HANDLING A LOAD D - TRANSVERSE ATTITUDE OF THE MACHINE).

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

FILLING THE BUCKET

- Place the bottom of the bucket in a horizontal position, just in contact with the ground (1) (Fig. A1).
- Move forward gradually (2) while simultaneously raising the boom and tilting the bucket backwards (3), for improved filling and breakout (Fig. A1).
- Reverse the machine (1) very carefully and gently to free the bucket. Lower the boom (2) into the transport position (Fig. A2).

⚠ IMPORTANT ⚠

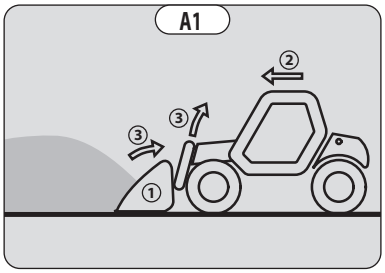
Tilt the bucket sufficiently back to avoid spilling product and ensure its stability (loss of product under braking).

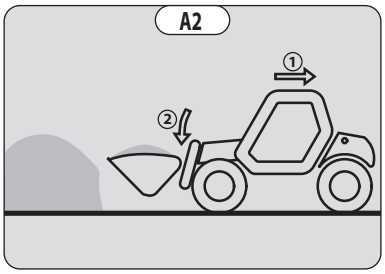
LOADING A TRAILER

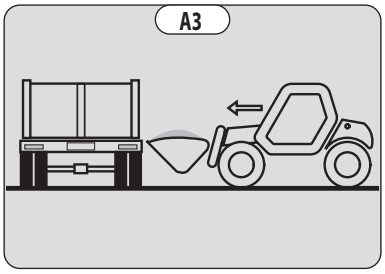
- Approach the side of the trailer in the transport position (Fig. A3).
- Raise and extend the boom (1) (2) until the bucket is above the trailer, while monitoring the longitudinal stability indicator (◁ INSTRUCTIONS FOR HANDLING A LOAD: C - LONGITUDINAL STABILITY INDICATOR) (fig. A4).
- Drive the machine forward (3) very carefully and gently so that the bucket empties its load in the center of the trailer (Fig. A4).
- Immobilize the machine with the brake pedal and put the reversing shift lever in neutral.

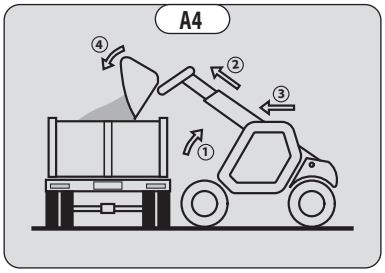
N.B.: Immobilizing the machine with the brake pedal means that the transmission should be in neutral. Failure to follow this recommendation may lead to overheating and damage to the brakes.

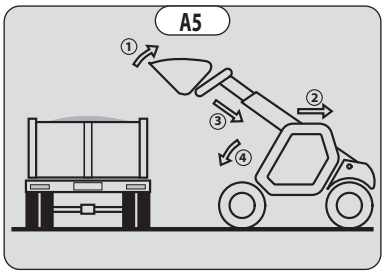
- Slowly discharge the product (4) (Fig. A4).
- Tilt the bucket backwards (1) and reverse the machine (2) very carefully and gently (Fig. A5).
- Retract (3) and lower the boom (4) into the transport position (Fig. A5).









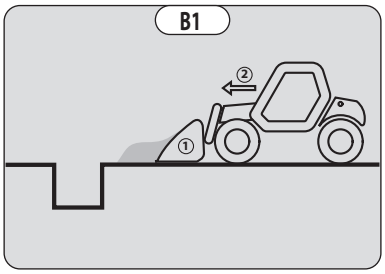


B - BACKFILLING

- Place the bottom of the bucket in a horizontal position, just in contact with the ground (1) (Fig. B1).
- Drive forward gradually (2). Once filled, the bucket will act as a leveling blade (Fig. B1).

⚠ IMPORTANT ⚠

When driving, beware of trenches as well as recently excavated and/or backfilled ground.



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INSTRUCTIONS FOR USING THE MOBILE ELEVATING WORK PLATFORM

For machines equipped with a MOBILE ELEVATING WORK PLATFORM

A - AUTHORIZATION FOR USE

- Operation of the platform requires further authorization in addition to that of the machine.

B - SUITABILITY OF THE PLATFORM FOR THE JOB

- Our machines fitted with mobile elevating work platforms are compliant with standard **EN 280** for Europe and standard **AS/NZS 1418.10:2011** for Australia, corresponding to the classification of Group C1 to C3 in accordance with this standard.
- MANITOU has ensured that this platform is suitable for use under the normal operating conditions provided in this operator's manual, with a STATIC test coefficient of 1.25 and a DYNAMIC test coefficient of 1.1 as specified in harmonized European standard **EN 280** for mobile elevating work platforms.
- Before commissioning, the company manager must make sure that the platform is appropriate for the work to be done, and perform certain tests (in accordance with current legislation).

C - PROVIDED ON THE PLATFORM

- Wear suitable clothing when using the platform, avoid loose-fitting garments.
- Never use the platform with hands or shoes that are wet or soiled with greasy substances.
- Remain alert at all times when using the platform. Do not listen to the radio or music using headphones or earphones.
- MANITOU strongly recommends wearing a safety harness attached to an attachment point in the platform. Wearing a safety harness or other personal protection equipment against falls may be compulsory. Comply with local, government and national regulations in force, employer's safety rules and work site regulations .
- The safety harness or other personal protection equipment against falls must comply with local, government, and national regulations in force. They must be inspected in accordance with the regulations in force.
- 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.).
- Safety helmets must be worn.
- The operator must always be in his normal position in the driver's cab: it is prohibited to have arms or legs, or generally any part of the body, outside the platform.
- Ensure that materials loaded onto the platform (pipes, cables, containers, etc.) cannot fall out. Do not pile these materials to the point where it is necessary to step over them.

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D - USING THE PLATFORM

- However experienced they may be, operators must acquaint themselves with the emplacement and operation of all control instruments prior to operating the platform.
- Check before use that the platform has been correctly assembled and locked onto the machine.
- Do not enter or exit the platform unless it is fully lowered.
- Always enter and exit the platform through the gate or using the sliding mid rails (depending on the model).
- Always enter and exit facing the interior of the platform.
- Always use both hands and one foot or both feet and one hand to enter and exit the platform.
- Make sure that the sliding intermediate cross members (depending on the model) are in the lower position and that the gate is properly closed (depending on the model) before using this platform.
- Do not attach the sliding mid rails in the high position.
- The platform should be operated in an area free of any obstructions or danger when it is lowered to the ground.
- The operator using the platform must be aided by someone on the ground with adequate training.
- You should stay within the limits set out in the platform load chart.
- The lateral constraints are limited (◁ 2 - DESCRIPTION: SPECIFICATIONS).
- It is strictly forbidden to suspend a load from the platform or the machine's boom without an attachment provided for the purpose (◁ INSTRUCTIONS FOR HANDLING A LOAD: H - PICKING UP AND PUTTING DOWN A SUSPENDED LOAD).
- The platform cannot be used as a crane or a lift for permanently transporting people or materials, nor as jacks or supports.
- The machine must not be moved with one (or more) person(s) on the platform.
- It is forbidden to transport people on the platform using the hydraulic controls in the machine's cab (except in case of rescue).
- The operator must not climb onto to off the platform when it is not on ground level (jib retracted and in the down position).
- The machine must not be fitted with unauthorized attachments that increase the windage of the assembly.
- Do not use ladders or improvised structures on the platform to gain extra height.
- Do not climb onto the rails of the platform to gain extra height.
- It is forbidden to use the platform on forks. The fork slots are only to, be used for storing the platform and not for lifting people under any circumstances.

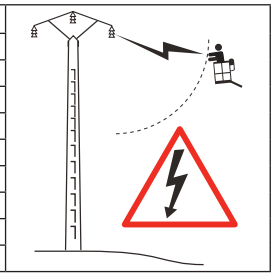
E - ENVIRONMENT

- Respect a safety distance between power lines or live components and any part of the body, any conductive object or any part of the machine, unless the local, government and national applicable regulations, the safety rules of the employer or construction site regulations are more strict in terms of distance required.
- Allow for platform movement and swaying or sagging power lines.

⚠ IMPORTANT ⚠

It is forbidden to use the platform close to electricity cables. Maintain the specified safe distances.

RATED VOLTAGE (VOLTS)	SAFETY DISTANCE (FT-IN/METRES)
50 < U < 1000	7-6.55/2,30
1000 < U < 30000	8-2.42/2,50
30000 < U < 45000	8-6.36/2,60
45000 < U < 63000	9-2.23/2,80
63000 < U < 90000	9-10.11/3,00
90000 < U < 150000	11-1.85/3,40
150000 < U < 225000	13-1.48/4,00
225000 < U < 400000	17-4.66/5,30
400000 < U < 750000	25-11.02/7,90



⚠ IMPORTANT ⚠

It is strictly forbidden to use the platform when the wind speed exceeds 45 km/h (27.96 mph).

- To visually recognize this wind speed, refer to the empirical wind evaluation scale below:

BEAUFORT scale (wind speed at a height of 32-9,7 ft-in (10 m) on a flat site)							
Force	**Type of wind**	**Speed (knots)**	**Speed (mph)**	**Speed (km/h)**	**Speed (m/s)**	**Effects on Land**	**Sea conditions**
0	Calm	**0 - 1**	**0 - 1**	**0 - 1**	**<0.3**	Smoke rises vertically.	Sea is like a mirror.
1	Light air	**1 - 3**	**1 - 3**	**1 - 5**	**0.3 - 1.5**	Smoke indicates direction of wind.	Ripples with appearance of scale, no foam crests.
2	Light breeze	**4 - 6**	**4 - 7**	**6 - 11**	**1.6 - 3.3**	Wind felt on face, leaves rustle.	Short wavelets, but pronounced.
3	Gentle breeze	**7 - 10**	**8 - 12**	**12 - 19**	**3.4 - 5.4**	Leaves and small twigs in constant motion.	Very small waves, crests begin to break.
4	Moderate breeze	**11 - 16**	**13 - 18**	**20 - 28**	**5.5 - 7.9**	Wind raises dust and loose pieces of paper; small branches are moved.	Small waves, becoming longer, numerous whitecaps.
5	Fresh breeze	**17 - 21**	**19 - 24**	**29 - 38**	**8 - 10.7**	Small tees in leaf begin to sway.	Wavelets form on inland waters; moderate waves, taking longer form.
6	Strong breeze	**22 - 27**	**25 - 31**	**39 - 49**	**10.8 - 13.8**	Large branches in motion, whistling heard in overhead wires, umbrella use becomes difficult.	Larger waves forming, whitecaps everywhere, some spray.
7	Near gale	**28 - 33**	**32 - 38**	**50 - 61**	**13.9 - 17.1**	Whole trees in motion, inconvenience felt when walking against the wind.	Sea heaps up; white foam from breaking waves begins to be blown in streaks along the direction of the wind.
8	Gale	**34 - 40**	**39 - 46**	**62 - 74**	**17.2 - 20.7**	Wind breaks twigs off trees; impedes progress.	Moderately high waves of greater length; edges of crests begin to break into spindrift.
9	Strong gale	**41 - 47**	**47 - 54**	**75 - 88**	**20.8 - 24.4**	Wind damages roofs (chimneys, slates, etc.).	High waves, crests of waves begin to topple, streaks of foam; reduced visibility.
10	Storm	**48 - 55**	**55 - 63**	**89 - 102**	**24.5 - 28.4**	Seldom experienced inland; trees uprooted; considerable structural damage occurs.	Very high waves; white streaks of foam; reduced visibility.
11	Violent storm	**56 - 63**	**64 - 72**	**103 - 117**	**28.5 - 32.6**	Very rare, widespread damage.	Exceptionally high waves able to hide medium sized ships from view, reduced visibility.
12	Hurricane	**64 +**	**72 +**	**118 +**	**32.7 +**	Devastating damage.	Sea completely white; air filled with foam and spray, very reduced visibility.

F - MAINTENANCE

⚠ IMPORTANT ⚠

Your platform 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 platform is used.

In France, a general periodic inspection every 6 months (Decree of March 1, 2004).

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For machines with RC radio control

HOW TO USE THE RADIO-CONTROL

SAFETY INSTRUCTIONS

⚠ IMPORTANT ⚠

It is prohibited to lift people in the platform using the radio-control.

It is prohibited to use the radio-control from the platform:

- This radio-control consists of electronic and mechanical safety elements. It cannot receive commands from another transmitter because the internal encoding is unique to each radio-control.

⚠ IMPORTANT ⚠

If it is used improperly or incorrectly, there is a risk of danger to:

- The physical and mental health of the user or others.

- The machine and other neighboring items.

Everyone working with this radio-control:

- Must be qualified in line with current regulations and trained accordingly.

- Must follow this instruction manual as closely as possible.

- The system is used to control the machine remotely via radio waves. Commands are also transmitted if the machine is out of sight (behind an obstacle or a building for example), this is why:
  - After stopping the truck and removing the key switch (only possible when it is stationary), always place the transmitter in a safe, dry place.
  - Before performing any installation, servicing or repair work, always switch off power sources (in particular, electric welding devices and electric head units on hydraulic distributors must be disconnected at each section).
  - Never remove or alter the safety devices (such as the hand-guard frame, key, emergency stop button, etc.).

⚠ IMPORTANT ⚠

Never drive the machine if it is not continuously and perfectly within view of the operator.

- Before leaving the transmitter, the operator must make sure that it cannot be used by an unauthorized third person: either by removing the key button from the transmitter or locking it in an inaccessible place.
- The user must ensure that the instruction manual is accessible at all times and that operators have read and understood it.

INSTRUCTIONS

- Take up position in a stable place with no risk of slipping.
- Before using the transmitter, make sure there is nobody within the working area.
- Only use the transmitter with its carrying device or installed correctly on the platform.

⚠ IMPORTANT ⚠

When you remove the transmitter, remove the accumulator and key button so that it cannot be used accidentally or deliberately by anyone else.

PROTECTIVE DEVICES

- The machine will be immobilized within a maximum of 450 milliseconds (approx. 0.5 second):
  - If the emergency stop button of the transmitter is pressed (50 milliseconds), or that of the machine.
  - If the transmission distance of the radio waves is exceeded.
  - If the transmitter is faulty.
  - If an interfering radio signal is received from elsewhere.
  - If the accumulator is removed from its housing in the transmitter.
  - If the battery reaches the end of its autonomy.
  - If the transmitter is switched off by turning the key switch to the off position.
- These protective devices are provided for the safety of personnel and property and must never be modified, removed or bypassed in any way whatsoever!
- The hand-guard frame prevents external action on a joystick (e.g. if the transmitter is dropped, or if the operator leans on a guard-rail).
- An electronic safety device prevents radio transmission from being initiated if the joysticks are not mechanically and electrically at rest and if the internal combustion engine speed selector is not set to idle.

⚠ IMPORTANT ⚠

In an emergency, press the transmitter emergency stop button immediately; then follow the manual's instructions (◁ 2 - DESCRIPTION: INSTRUMENTS AND CONTROLS).

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MACHINE MAINTENANCE INSTRUCTIONS

GENERAL INSTRUCTIONS

⚠ IMPORTANT ⚠

Carefully read and understand this operator's manual before any operation on this machine.

Carry out all repairs immediately, even if the repairs concerned are minor.

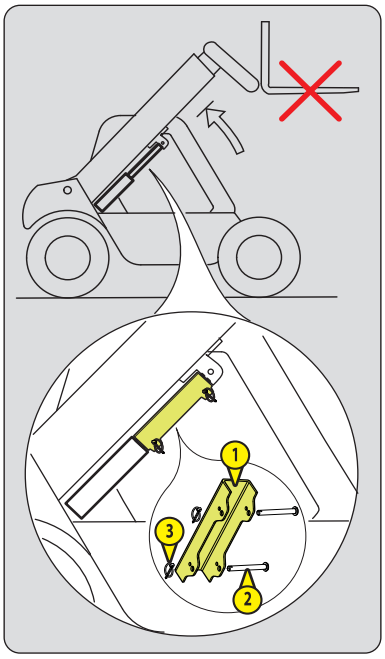
Repair all leaks immediately, even if the leak concerned is minor.

Be careful of the risk of burns and splashing (exhaust, radiator, engine, hydraulic oil, etc.).

- 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.
- Stop the engine and remove the ignition key before carrying out any work.

PLACING THE JIB SAFETY WEDGE

- The machine is equipped with a boom safety wedge (◁ 2 - DESCRIPTION: INSTRUMENTS AND CONTROLS) that must be installed on the lifting cylinder rod when working beneath the boom.
- Boom retracted without forks or attachments.



ACCORDING TO INSTALLATION

FITTING THE WEDGE

- Fully raise the jib.
- Place the safety wedge 1 on the rod of the lifting cylinder and secure with the rod 2 and the pin 3.
- Slowly lower the jib then stop the hydraulic movements before it comes into contact with the wedge.

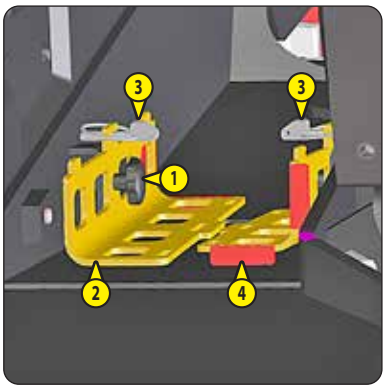
REMOVING THE WEDGE

- Fully raise the jib.
- Remove the pin and the rod.
- Return the safety wedge to the storage location provided on the machine.

⚠ IMPORTANT ⚠

Only use the wedge supplied with the machine.

ACCORDING TO INSTALLATION



FITTING THE WEDGE

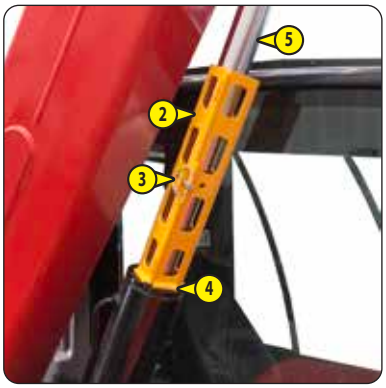
- Fully raise the jib.
- Loosen the thumbwheels 1.
- Assemble the parts of the safety wedge 2 around the cylinder rod and lock with the pins 3.

NOTE: the stop flats 4 of the safety wedge must be located towards the bottom of the lifting cylinder 5.

- Slowly lower the jib then stop the hydraulic movements before it comes into contact with the wedge.

REMOVING THE WEDGE

- Fully raise the jib.
- Remove the pins 3.
- Put the parts of the safety wedge 2 back on the machine and lock them with the thumbwheels 1.
- Replace the pins 3 on the parts of the safety wedge.



⚠ IMPORTANT ⚠

Only use the wedge supplied with the machine.

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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 section 3 - MAINTENANCE and the other inspection, servicing or repair operations or modifications performed on the machine shall 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 ⚠

COUNTERBALANCE VALVE: it is dangerous to change the setting or remove the counterbalance valves or safety valves which may be fitted to the cylinders of your machine.

HYDRAULIC ACCUMULATOR: dismantling hydraulic accumulators and their pipes which may be fitted on your machine 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 on, the machine may suddenly start to move.
- Do not place metal items on the battery.
- Disconnect the battery before working on the electrical circuit.

WELDING ON THE MACHINE

⚠ IMPORTANT ⚠

Welding operations on the machine for the purposes of maintenance or repairs must only be carried out by people authorized by MANITOU.

- 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.

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WASHING THE MACHINE

⚠ IMPORTANT ⚠

When washing with a high pressure cleaner, avoid the engine air intakes, the cylinder rod wiper seals, the hinges, the structural components and the electrical connections, etc.

- Clean the machine or at least the area concerned before any intervention.
- Remember to close and lock all openings on the machine (doors, windows, cowls, etc.).
- 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, winching, 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 fuel, oil, water or air leaks.
- 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.
- Lower the lifting structure fully.
- Retract the telescopic arms.
- Release the pressure in the hydraulic circuits.
- Shut down the machine.

DEF (Diesel Exhaust Fluid) TANK

Depending on machine model

- Drain down and rinse the DEF (Diesel Exhaust Fluid) tank.
- Replace the "DEF" (Diesel Exhaust Fluid) feed pump filter (◁ 3 - MAINTENANCE).
- Slowly fill the tank with new DEF up to the bottom of the filler neck.
- Start up the machine to pressurize the circuit and bring it up to working temperature, then shut down the engine.
- If necessary, top up the tank.

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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 engine oil and oil filter (◅ 3 - MAINTENANCE).
- Replace the coolant (◅ 3 - MAINTENANCE).
- Leave the engine running at idling speed for a few minutes, then switch off.
- Run the engine for a short time so that the oil and cooling liquid circulate inside.
- Disconnect the battery and store it in a safe place away from the cold, after charging it to maximum capacity.
- 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 off the ground.
- Deactivate the parking brake (depending on machine model).
- Protect cylinder rods which will not be retracted from corrosion.
- Wrap the wheels.

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

RETURNING THE MACHINE TO SERVICE

⚠ IMPORTANT ⚠

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

- Remove the waterproof adhesive tape from all the orifices.
- Remove the protection from the cylinder rods and wheels.
- Refit and reconnect the battery.
- Activate the parking brake and remove the axle stands.
- Perform the daily maintenance operations (◅ 3 - MAINTENANCE).
- Perform the weekly maintenance operations (◅ 3 - MAINTENANCE).
- Drain and clean the fuel tank (◅ 3 - MAINTENANCE).
- Fill the fuel tank with clean diesel filtered through the filler port.
- Replace the fuel filter (◅ 3 - MAINTENANCE).
- Replace the fuel pre-filter (◅ 3 - MAINTENANCE) (depending on the model of machine).
- Drain and rinse the DEF tank (depending on the machine model).
- Top up, slowly fill the tank with new "DEF" (Diesel Exhaust Fluid) up to the bottom of the filler neck (depending on the machine model).
- Refit and set the tension in the belts. (◅ 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).
- Start up the machine, following the operating and safety instructions (◅ OPERATING INSTRUCTIONS UNLADEN AND LADEN).
- Perform all the lifting structure's hydraulic movements up to the end position for each cylinder.

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.

2 - DESCRIPTION

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2 - DESCRIPTION

SAFETY PLATES AND STICKERS 2-4

IDENTIFICATION OF THE LIFT TRUCK 2-8

SPECIFICATIONS MLT 630 115D V CP ST5 S1 2-12

TIRES MLT 630 115D V CP ST5 S1 2-16

DIMENSIONS MLT 630 115D V CP ST5 S1 2-18

LOAD CHARTS MLT 630 ... 2-20

INSTRUMENTS AND CONTROLS 2-22

EMERGENCY BRAKE 2-24

EMERGENCY EXIT 2-25

TOWING DEVICE 2-54

DESCRIPTION AND USE OF THE OPTIONS 2-60

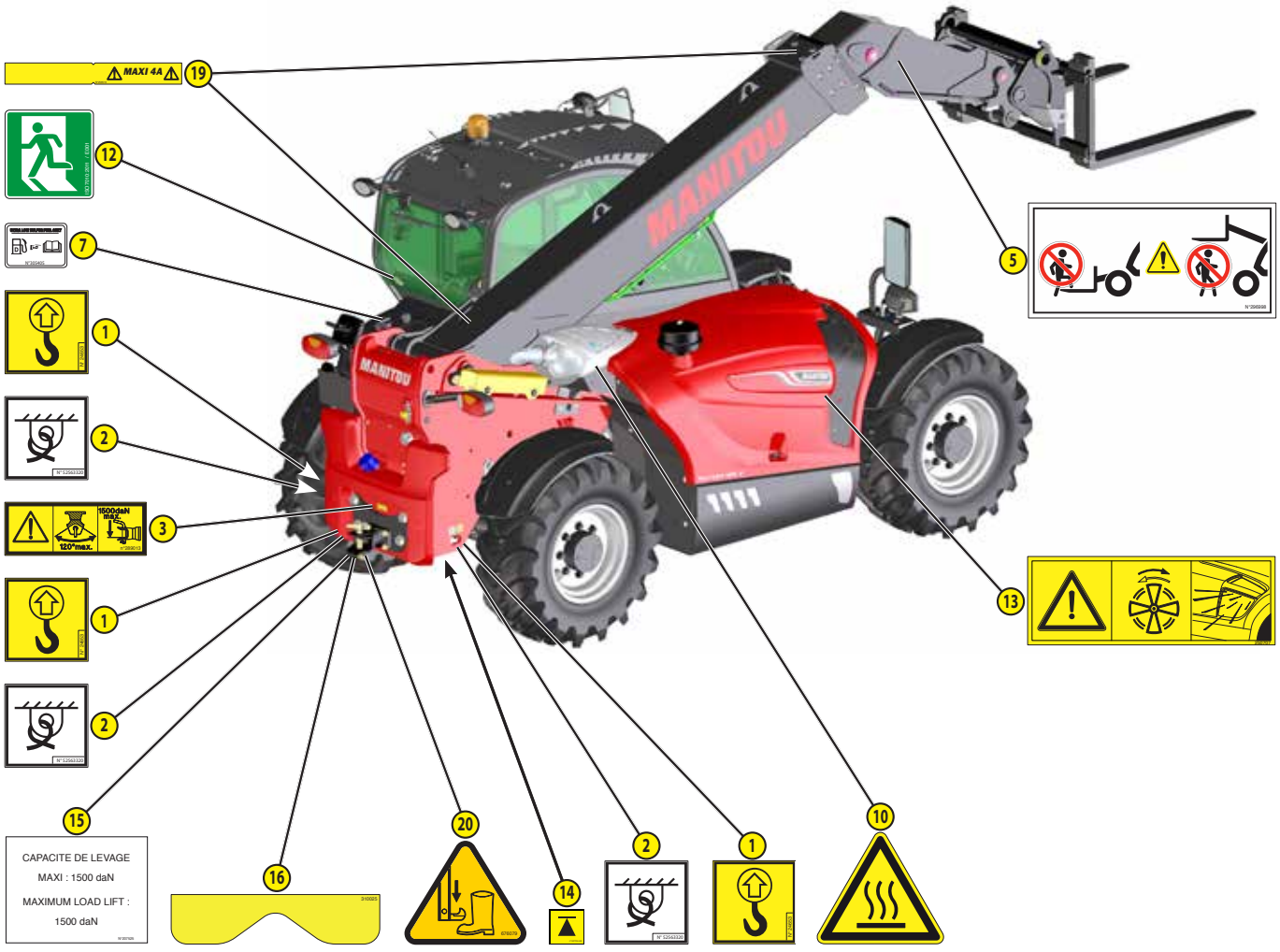
SAFETY PLATES AND STICKERS

⚠ IMPORTANT ⚠

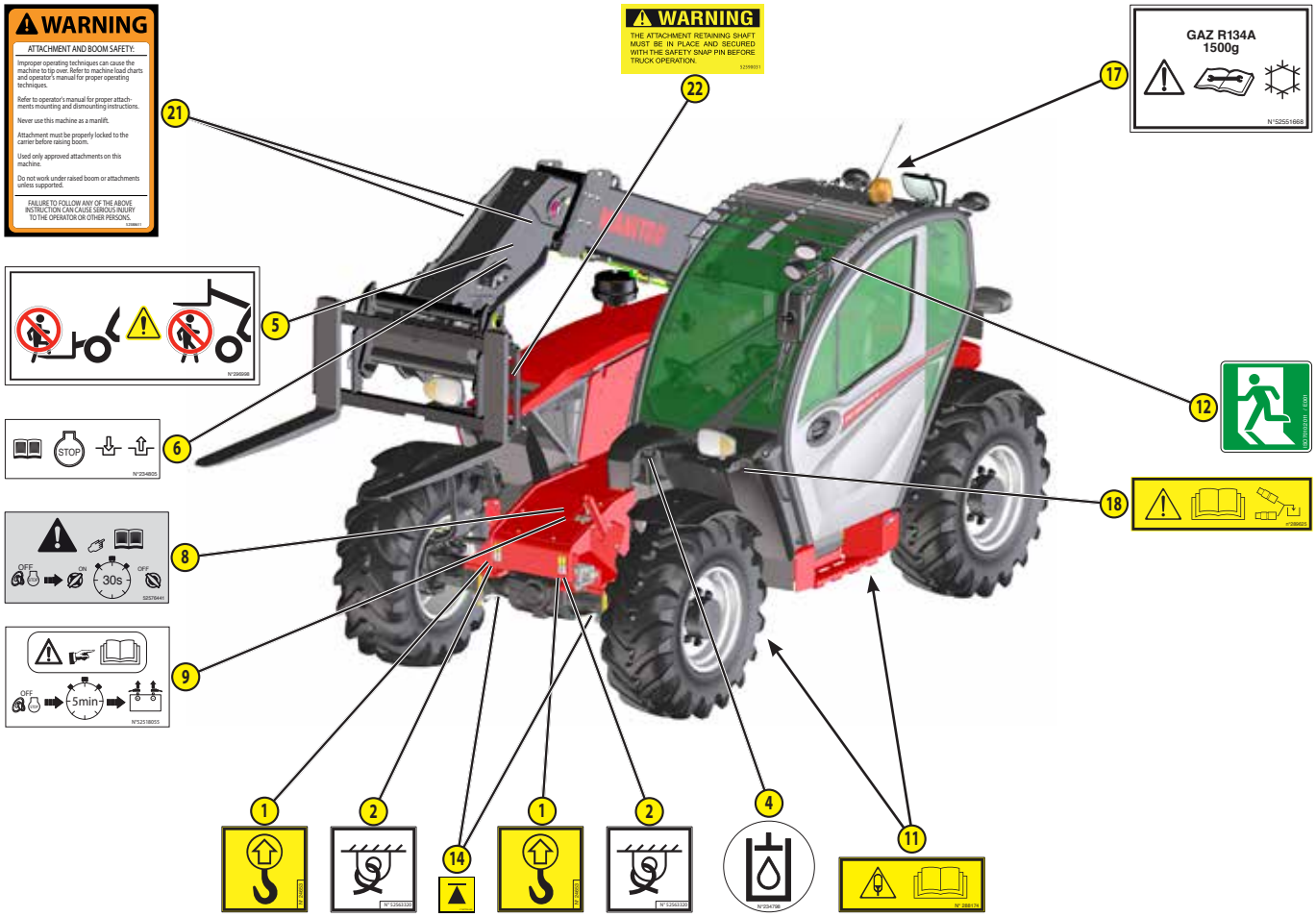
Clean all stickers and safety plates so that they are legible.
Any safety plates and stickers which are illegible or damaged must be replaced.
Check that stickers and safety plates are present after replacing any spare parts.

EXTERNAL PLATES AND STICKERS

ITEM	REFERENCE	DESCRIPTION
1	24653	-Slinging point
2	52563320	-Tie-down point
3	289013	-Towing instruction
4	234798	-Hydraulic fluid
5	296998	-Maniscopic safety instruction
6	234805	-Hydraulic coupling instruction
7	305405	-Diesel fuel
8	52576441	-Battery cut-off instruction
9	52518055	-Battery troubleshooting
10	52582287	-Caution, hot surface
11	288174	-Accumulator instructions
12	52567646	-Emergency exit
13	250707	-Ventilation reversal
14	52705448	-Hydraulic jack location
15	207525	-Hydraulic towing hook (OPTION)
16	310025	-Hydraulic towing hook visibility (OPTION)
17	52551668	-Air conditioning (OPTION)
18	289625	-Easy attachment connection (OPTION)
19	256513	-Boom electrical predisposition (OPTION)
20	676079	-Towing hook crushing hazard (OPTION)
21	52588611	-Attachment and boom safety
22	52590031	-Attachment retaining shaft

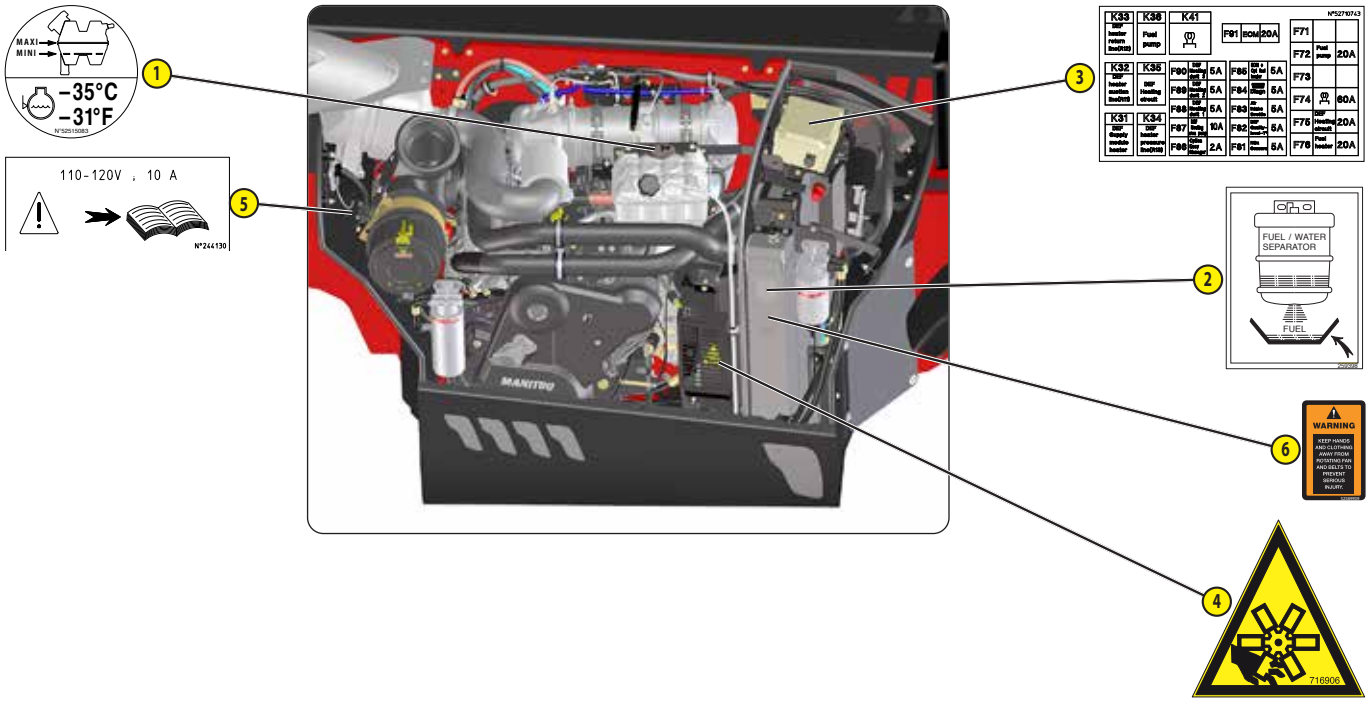


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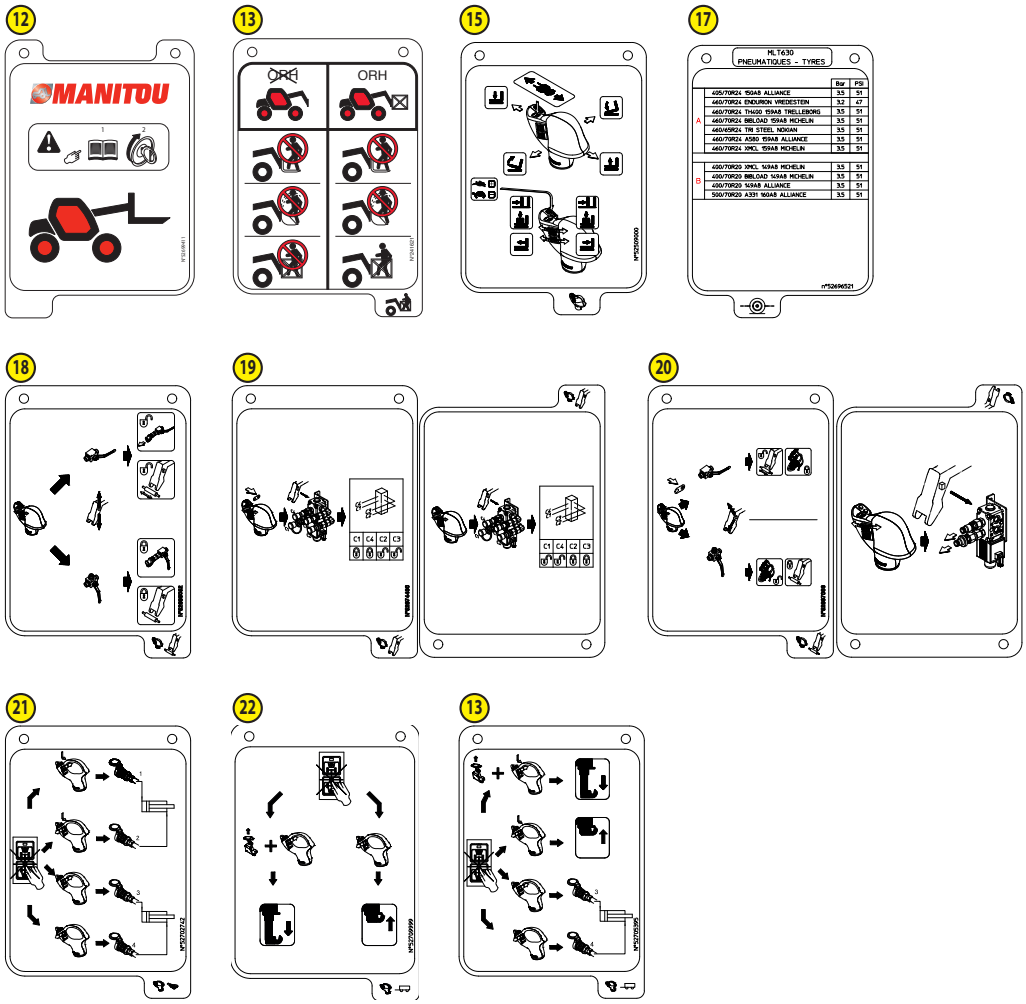
STICKERS AND PLATES UNDER THE ENGINE HOOD

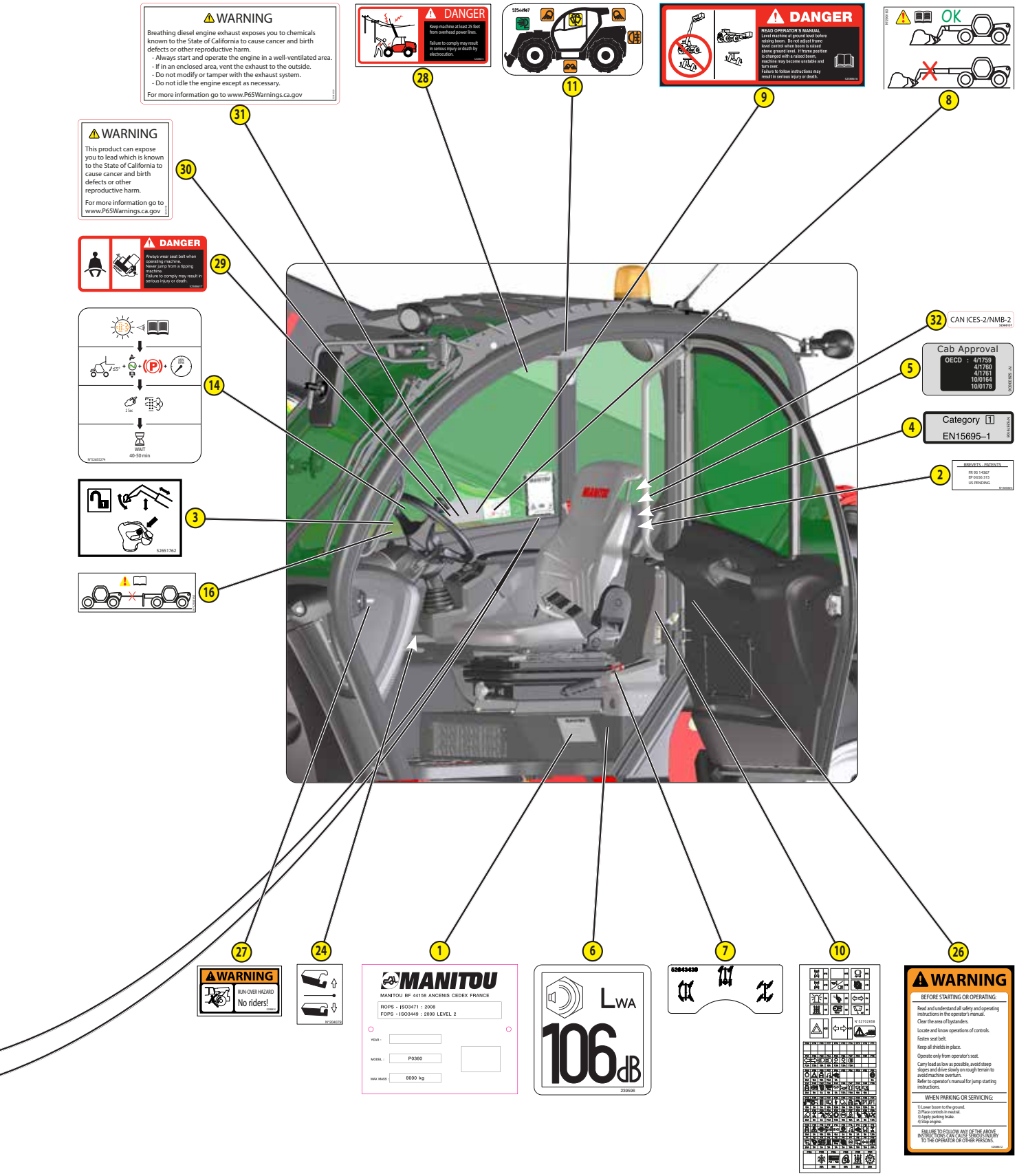
ITEM	REFERENCE	DESCRIPTION
1	52515083	-Anti-freeze
2	259398	-Water/diesel separator
3	52710743	-Engine fuse
4	716906	-Fan hazard
5	244130	-Preheat rod
6	52589959	-Rotating fan



PLATES AND STICKERS IN THE CAB

ITEM	REFERENCE	DESCRIPTION
1	52633607	-Cab compliance
2	223324	-Patents
3	52651762	-Hydraulic controls activation
4	52579106	-Cab category 1
5	52633606	-Cab homologation
6	239596	-Sound power level 106dB
7	52643439	-Steering selection control
8	290183	-Bucket instruction on telescope
9	52588616	-Frame leveling warning
10	52702658	-Fuses
11	52544967	-Switch pictograms
12	52699411	-Reach chart sheet
13	241621	-Safety instruction
14	52655274	-"Stationary lift truck" exhaust regeneration
15	52509000	-Joystick function
16	52580160	-Towing forbidden
17	52696521	-Tires (MLT 630 ...)
18	52696052	-Hydraulic attachment locking function (OPTION)
19	52674430	-Boom head electrovalve function (OPTION)
20	52697003	-Hydraulic attachment locking + boom head electrovalve function (OPTION)
21	52702742	-Double-acting rear hydraulic control predisposition function (OPTION)
22	52709999	-Hydraulic towing hook control function (OPTION)
23	52705395	-Hydraulic towing hook control + double-acting rear hydraulic predisposition function (OPTION)
24	204079	-Hydraulic towing hook (OPTION)
26	52588612	-Before starting or operating
27	52588614	-No riders
28	52588615	-Power line
29	52588617	-Seat belt
30	52618158	-PROP 65 warning plomb
31	52618159	-PROP 65 warning diesel engine exhaust
32	52628703	-ADH CAN ICES-2 NMB-2




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
31
DANGER
Keep machine at least 25 feet from overhead power lines.
Failure to comply may result in serious injury or death by electrocution.
28
11
DANGER
READ OPERATOR'S MANUAL
Level machine at ground level before raising boom. Do not adjust frame level control when boom is raised above ground level. If frame position is changed with a raised boom, machine may become unstable and turn over.
Failure to follow instructions may result in serious injury or death.
9
OK
8
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
30
DANGER
Always wear seat belt when operating machine.
Never jump from a tipping machine.
Failure to comply may result in serious injury or death.
29
WAIT
40-50 min
14
32
CAN ICES-2/NMB-2
Cab Approval
OECD : 4/1759
4/1760
4/1761
10/0164
10/0178
5
Category 1
EN15695–1
4
BREVETS - PATENTS
FR 93 14367
EP 0656 315
US PENDING
2
3
16
MANITOU
MANITOU BF 44158 ANCENIS CEDEX FRANCE
ROPS - ISO3471 : 2008
FOPS - ISO3449 : 2008 LEVEL 2
YEAR :
MODEL : P0360
MAX MASS : 8000 kg
LWA
106dB
WARNING
RUN-OVER HAZARD
No riders!
WARNING
BEFORE STARTING OR OPERATING:
Read and understand all safety and operating instructions in the operator's manual.
Clear the area of bystanders.
Locate and know operations of controls.
Fasten seat belt.
Keep all shields in place.
Operate only from operator's seat.
Carry load as low as possible, avoid steep slopes and drive slowly on rough terrain to avoid machine overturn.
Refer to operator's manual for jump starting instructions.
WHEN PARKING OR SERVICING:
1) Lower boom to the ground.
2) Place controls in neutral.
3) Apply parking brake.
4) Stop engine.
FAILURE TO FOLLOW ANY OF THE ABOVE INSTRUCTIONS CAN CAUSE SERIOUS INJURY TO THE OPERATOR OR OTHER PERSONS.
27
24
1
6
7
10
26

IDENTIFICATION OF THE LIFT TRUCK

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

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

NOTE: 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: SPECIFICATIONS.

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" Pulling force	



TRACTOR TYPE APPROVAL PLATE

"Category" Category	
"Homologation N°" Certification number	
"Product Identification Number" Product identification number	
"Total permissible mass" Maximum laden weight technically permissible	
"Maximum mass on front axle" Maximum weight on front axle	
"Maximum mass on rear axle" Maximum weight on rear axle	
"PERMISSIBLE TOWABLE MASS" PERMISSIBLE TRAILER WEIGHT	
• **"B-1 unbraked"** unbraked	
• **"B-2 inertie braked"** inertia braked	
• **"B-3 hydraulic braque"** hydraulic braked	
• **"B-4 pneumatic braked"** pneumatic braked	
• **"T-1 drawbar"** drawbar	
• **"T-2 rigid drawbar"** rigid drawbar	
• **"T-3 centreaxle"** center axle	



ENGINE

"MODEL" Model	
"CODE" Code	
"E1" Identification	
"SERNO" Serial number	
"SPEC" Specification	



TRANSFER BOX

Type	
Serial number	
MANITOU Part No.	



HYDROSTATIC PUMP

"CNR" MANITOU Part No.	
"TYP" Codification	
"MNR" Manufacturing number	
"SN" Serial number	
"FD" Date of manufacture	



HYDROSTATIC MOTOR

"CNR" MANITOU Part No.	
"TYP" Codification	
"MNR" Manufacturing number	
"SN" Serial number	
"FD" Date of manufacture	



FRONT AXLE

Type	
Serial number	
MANITOU Part No.	



REAR AXLE

Type	
Serial number	
MANITOU Part No.	



CAB

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



BOOM

MANITOU Part No.	
Date of manufacture and manufacturer	



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	



ENGINE		
Type		DEUTZ TCD3,6L4/C5VI85E
Fuel		Diesel
Number of cylinders		4 in line
Suction		Supercharged
Injection system		Direct
Ignition sequence		1.3.4.2
Cubic capacity	cu.in (cm³)	221 (3621)
Bore and stroke	in (mm)	3.86 x 4.72 (98 x 120)
Compression ratio		17,2
Nominal speed laden	rpm	2200
Min. rpm unladen	rpm	930
Max. rpm unladen	rpm	2360
Power ISO/TR 14396	hp - kW	116 - 85
Power SAE J 1995	hp - kW	116 - 85
Maximum torque ISO/TR 14396	ft-lbs (Nm)	339.28(460) to 1600 rpm
Air filtration efficiency	%	99,9
Type of cooling		Water/Air
Fan		Puller

TRANSMISSION		
Hydrostatic pump		BOSCH REXROTH
- Type		A4VG71 Variable displacement swashplate piston pump
- Forward/reverse selector		Electro-hydraulics
- Number of forward speeds		2 (1 slow and 1 fast)
- Number of reverse speeds		2 (1 slow and 1 fast)
Main pump		
- MAX - MIN. displacement	cm3/r	0 - 71
- MAX. flow rate	l/min	156
- Working pressure	bar	450
Booster pump		
- Cubic capacity	cm3/r	19,6
- MAX. flow rate	l/min	43
- Boost pressure MAX. speed	bar	20
Hydrostatic motor		
- Type		A6VM115EP100PN00A/71MWV0P4Z91D0-0 Bi-directional variable motor
- MAX - MIN. displacement	cm3/r	0 - 115,6
Reduction gearbox		DANA
Front axle		DANA
- Differential		Limited slip
Rear axle		DANA
- Differential		Without locking
Drive wheels		Permanent 4 WD
- 2/4 wheel drive control		No
Front tires		ALLIANCE
- Size		400/70R20 580 149A8
- Pressure	psi (bar)	51 (3,5)
Rear tires		ALLIANCE
- Size		400/70R20 580 149A8
- Pressure	psi (bar)	51 (3,5)

ELECTRICAL SYSTEM	
Battery	12 V - 180 Ah - 900 A EN
Alternator	14 V - 120 A
- Type	ISKRA AAK3869
Starter	12 V - 4 kW
- Type	MAHLE AZF4814

BRAKE SYSTEM	
Service brake	Hydraulic power brake
- Type of brake	Oil-immersed multi-disc
- Type of control	By foot on front axle
Parking brake	Mechanical
- Type of brake	Oil-immersed multi-disc
- Type of control	Manual

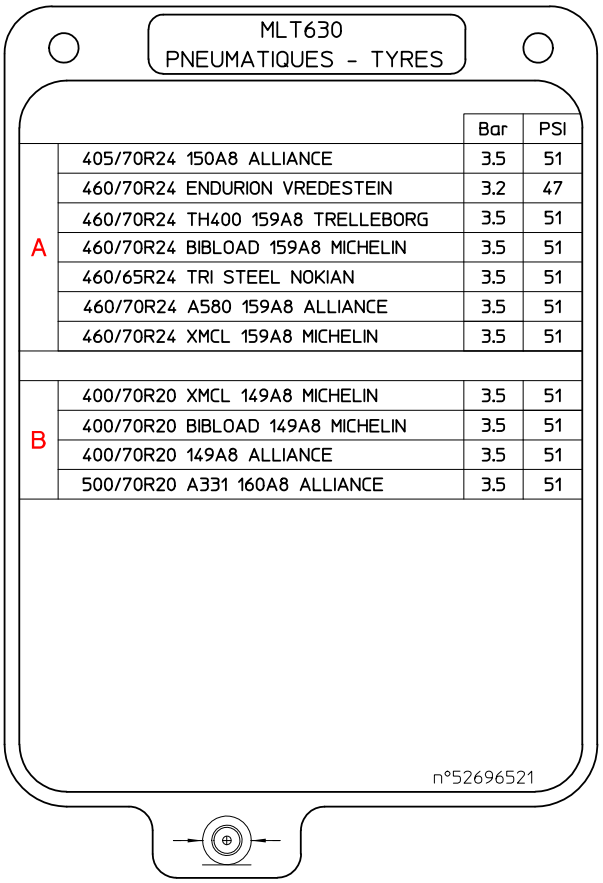
HYDRAULIC CIRCUIT			
Hydraulic pump			
- Type		Gears	
		1st casing	2nd casing
- Cubic capacity	cu.in (cm³)	2.75 (45,1)	1.51 (24,8)
- Max. rating capacity unladen	gpm (L/min)	28 (106)	15.59 (59)
- Flow at 1,600 rpm	gpm (L/min)	19.02 (72)	10.57 (40)
Filtration			
- Return	mil (µm)	0.39 (10)	0.39 (10)
- Suction	mil (µm)	5.31 (135)	5.31 (135)
Maximum working pressure	psi (bar)	3625.9 (250)	
- Telescoping circuit	psi (bar)	3625.9 (250) / 2828.2 (195)	
- Lift circuit	psi (bar)	3625.9 (250) / 3625.9 (250)	
- Tilt circuit	psi (bar)	3625.9 (250) / 2828.2 (195)	
- Attachment circuit	psi (bar)	3625.9 (250)	
- Steering circuit	psi (bar)	2030.5 (140)	

HYDRAULIC MOVEMENTS		
Lifting motions (boom retracted)		
- Unladen lifting	s - fpm (m/min)	6,5 - 125.66 (38,3)
- Laden lifting	s - fpm (m/min)	7,7 - 105.97 (32,3)
- Unladen lowering	s - fpm (m/min)	4,9 - 166.67 (50,8)
- Laden lowering	s - fpm (m/min)	4,8 - 170.28 (51,9)
Telescoping motions (boom raised)		
- Unladen extending	s - fpm (m/min)	5,8 - 71.19 (21,7)
- Laden extending	s - fpm (m/min)	5,8 - 71.19 (21,7)
- Unladen retracting	s - fpm (m/min)	5,3 - 78.08 (23,8)
- Laden retracting	s - fpm (m/min)	5,3 - 78.08 (23,8)
Tilting movements		
- Unladen digging	s - °/s	3,2 - 45,6
- Unladen dump	s - °/s	2,6 - 56,2

SOUND AND VIBRATION		
Sound pressure level in the driver's cab LpA (according to standard EN 12053)	dB(A)	73 (cab closed) ; xx (cab open)
Sound pressure (according to Directive 2009/76)	dB(A)	xx (cab closed) ; xx (cab open)
Guaranteed sound power level in the environment LwA (according to Directive 2000/14/EC modified by Directive 2005/88/EC)	dB(A)	106 (measured) ; 107 (guaranteed)
Sound level in motion (according to Directive 2009/63)	dB(A)	xx
Average weighted acceleration on driver's body (according to standard EN 13059)	fps² (m/s²)	3.71 (1,13)
The average weighted acceleration transmitted to the driver's hand/arm system (according to standard ISO 5349-2)	fps² (m/s²)	< 8.2 (< 2,5)
Standard seat vibration	fps² (m/s²)	xx (lightweight operator) ; xx (heavyweight operator)

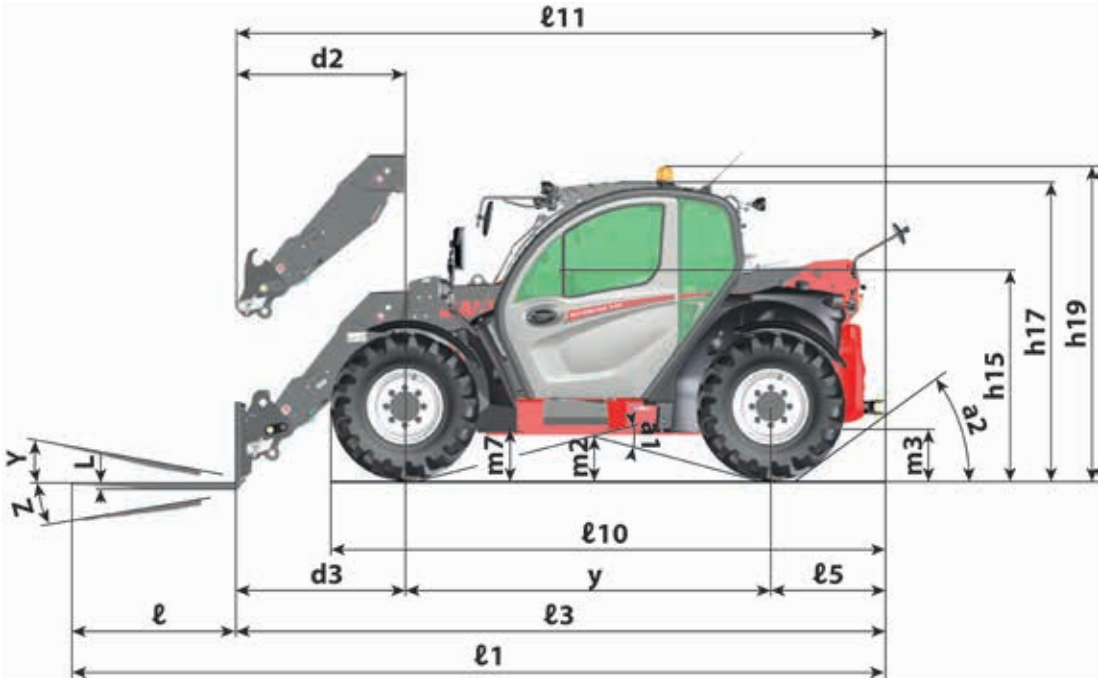
SPECIFICATIONS AND WEIGHTS			
Speed of movement for lift truck in standard configuration on flat ground			
- Front unladen	1 Slow	mph (km/h)	11.18 (18)
	1 Fast	mph (km/h)	23.61 (38)
- Rear unladen	1 Slow	mph (km/h)	11.18 (18)
	1 Fast	mph (km/h)	23.61 (38)
Standard attachment			PFB 35 MT 1260
- Weight of attachment (without forks)		lbs (kg)	209.44 (95)
- Weight of forks (each)		lbs (kg)	159.84 (72,5)
Rated capacity with standard attachment		lbs (kg)	6613.87 lb (3000)
Tipping load at maximum reach on tires		lbs (kg)	2755.78 (1250)
Distance from the center of gravity of the load to the base of the forks		in (mm)	19.69 (500)
Standard lifting height		in (mm)	236.22 (6000)
Lift truck weight without attachment		lbs (kg)	14109.58 (6400)
Weight of lift truck with standard attachment			
- Unladen		lbs (kg)	14638.69 (6640)
- At rated load		lbs (kg)	21252.56 (9640)
Weight per axle with standard attachment (transport position)			
- Front unladen		lbs (kg)	7142.98 (3240)
- Rear unladen		lbs (kg)	7495.72 (3400)
- Front rated load		lbs (kg)	18496.78 (8390)
- Rear rated load		lbs (kg)	2755.78 (1250)
Weight per axle with standard attachment (boom extended)			
- Front rated load		lbs (kg)	15741.01 (7140)
- Rear rated load		lbs (kg)	1653.47 (750)
Tractive effort on the coupling hook			
- Unladen (sliding)		lbf (daN)	10790.83 (4800)
- At rated load (transmission setting)		lbf (daN)	14612.58 (6500)
Break-out force with bucket (according to standard ISO 8313)		lbf (daN)	11047.11 (4914)

		PRESSURE psi (bar)	LOAD PER TIRE lbs (kg)			
			FRONT UNLADEN	FRONT LADEN	REAR UNLADEN	REAR LADEN
ALLIANCE	400/70R20 580 149A8	51 (3,5)	3527.4 (1600)	9259.42 (4200)	3747.86 (1700)	1433 (650)
	500/45 R20 160A8 I331	51 (3,5)				
MICHELIN	400/70 R20 XMCL 149A8	51 (3,5)				
	400/70 R20 149A8/149B IND TL BIBLOAD HARD SURFACE	51 (3,5)				



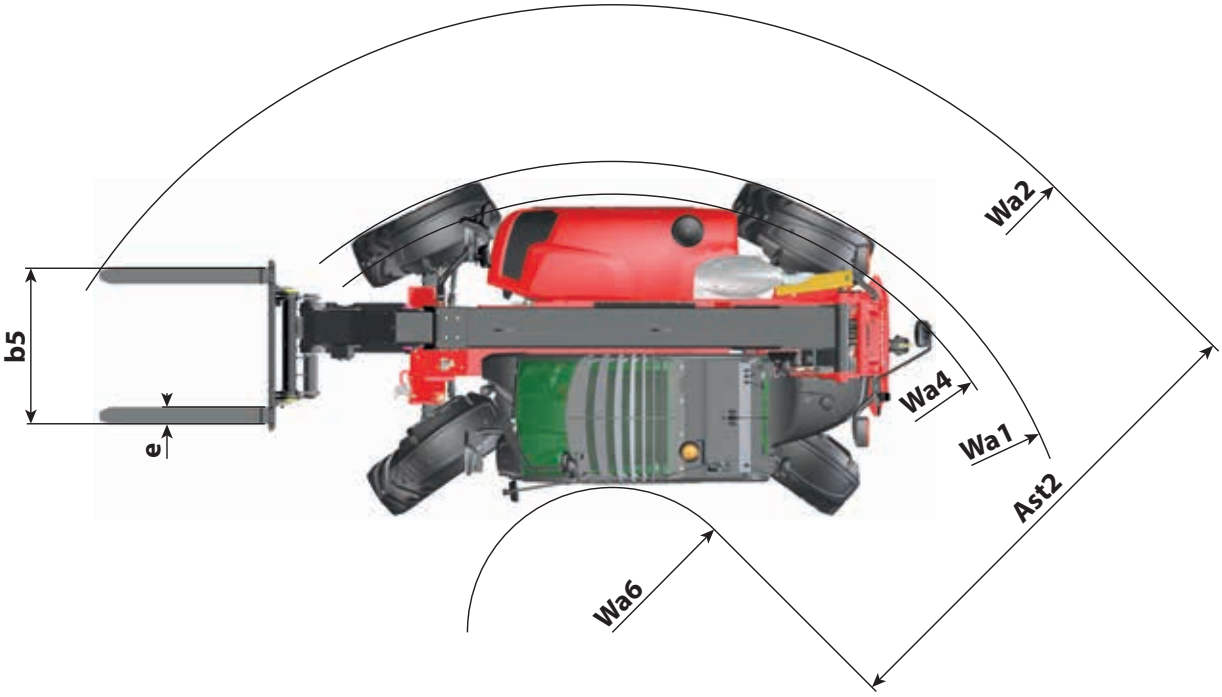
		PRESSURE psi (bar)	LOAD lbs (kg)	GROUND CONTACT PRESSURE psi (kg/cm2)		GROUND CONTACT AREA in2 (cm2)	
				HARD GROUND	SOFT GROUND	HARD GROUND	SOFT GROUND
ALLIANCE	400/70R20 580 149A8	51 (3,5)	1433 (650)	62.29 (4,59)	21.62 (1,52)	21.86 (141)	65.72 (424)
			3527.4 (1600)	81.50 (5,73)	26.17 (1,84)	43.25 (279)	135.01 (871)
			3747.86 (1700)	82.64 (5,81)	26.03 (1,83)	45.42 (293)	144.00 (929)
			9259.42 (4200)	112.65 (7,92)	39.54 (2,78)	82.15 (530)	234.05 (1510)
	500/45 R20 160A8 I331	51 (3,5)	1433 (650)	68.84 (4,84)	28.45 (2,00)	21.08 (136)	51.00 (329)
			3527.4 (1600)	83.92 (5,90)	35.00 (2,46)	41.70 (269)	99.98 (645)
			3747.86 (1700)	85.48 (6,01)	35.70 (2,51)	43.87 (283)	105.09 (678)
			9259.42 (4200)	106.82 (7,51)	40.96 (2,88)	86.65 (559)	225.99 (1458)
MICHELIN	400/70 R20 XMCL 149A8	51 (3,5)	1433 (650)				
			3527.4 (1600)				
			3747.86 (1700)				
			9259.42 (4200)				
	400/70 R20 149A8/149B IND TL BIBLOAD HARD SURFACE	51 (3,5)	1433 (650)				
			3527.4 (1600)				
			3747.86 (1700)				
			9259.42 (4200)				

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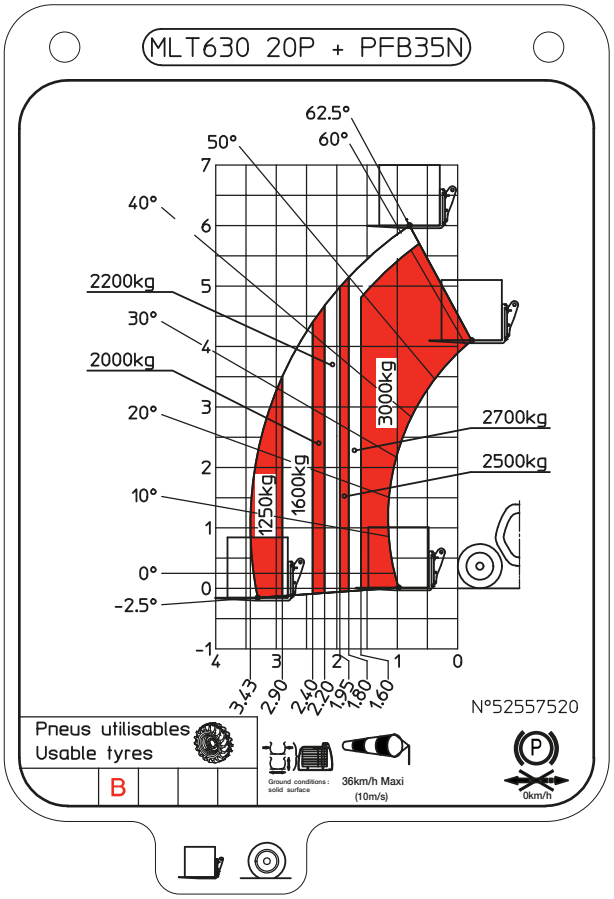


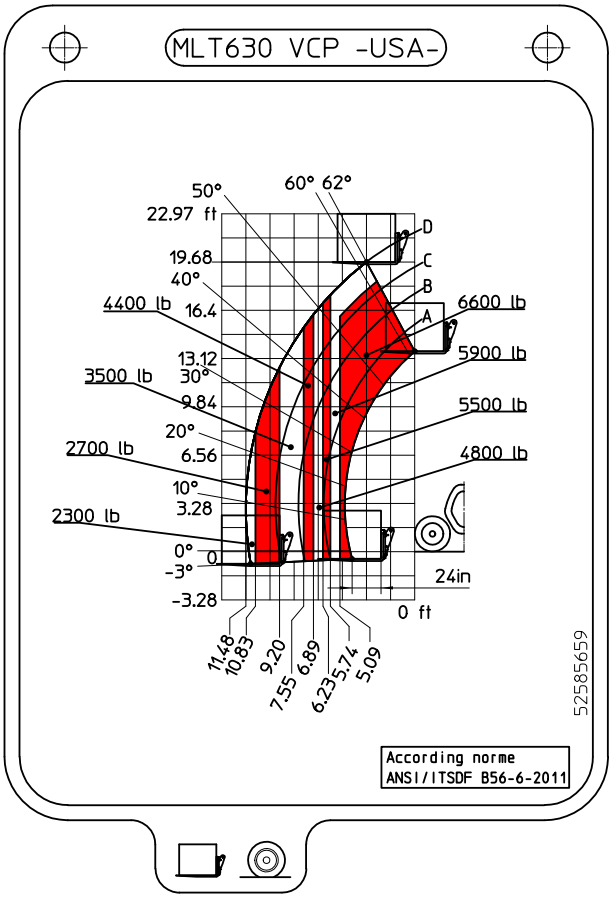


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MACHINE LENGTH	**ℓ1**	in (mm)	235.59 (5984)
	ℓ3	in (mm)	188.35 (4784)
	ℓ5	in (mm)	33.19 (843)
	ℓ10	in (mm)	160.20 (4069)
	ℓ11	in (mm)	186.46 (4736)
MACHINE WIDTH	**b1**	in (mm)	81.10 (2060)
	b4	in (mm)	37.40 (950)
	b5	in (mm)	49.61 (1260)
	b9	in (mm)	64.96 (1650)
	b10	in (mm)	64.96 (1650)
MACHINE HEIGHT	**h15**	in (mm)	59.09 (1501)
	h17	in (mm)	84.37 (2143)
	h19	in (mm)	88.78 (2255)
DISTANCE	**d2**	in (mm)	47.36 (1203)
	d3	in (mm)	49.25 (1251)
AISLE WIDTH	**Ast2**	in (mm)	142.32 (3615)
ATTACHMENT	**ℓ**	in (mm)	47.24 (1200)
	e	in (mm)	4.92 (125)
	s	in (mm)	1.77 (45)
TURNING RADIUS	**Wa1**	in (mm)	143.50 (3645)
	Wa2	in (mm)	195.08 (4955)
	Wa4	in (mm)	135.43 (3440)
	Wa6	in (mm)	52.76 (1340)
GROUND CLEARANCE	**m2**	in (mm)	11.14 (283)
	m3	in (mm)	13.86 (352)
	m7	in (mm)	13.86 (352)
ANGLE	**a1**	°	47
	a2	°	35
	a4	°	13
	a5	°	133
WHEEL BASE	**y**	in (mm)	105.91 (2690)

STANDARD WITH TIRES "B"





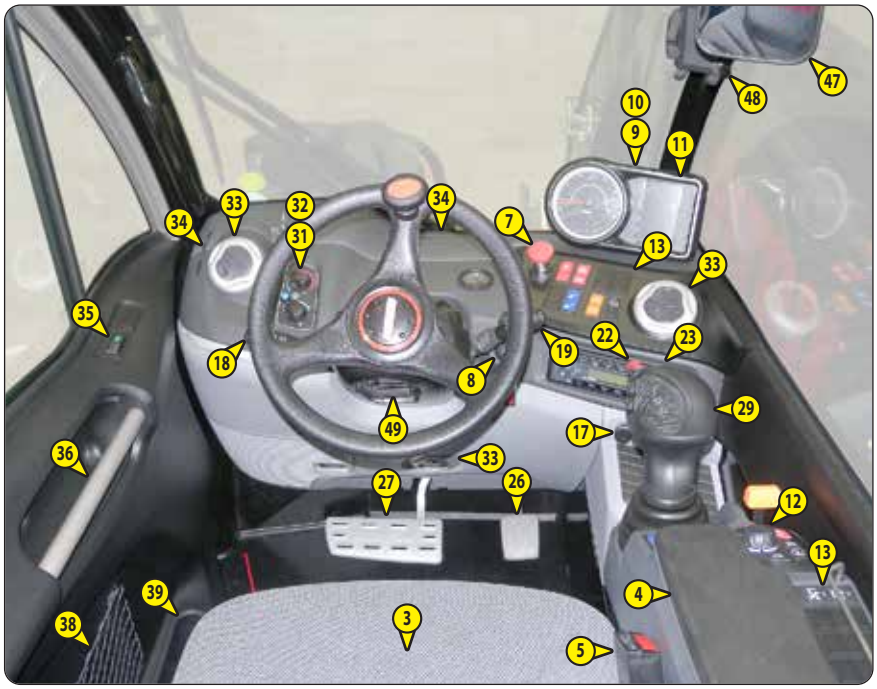
DESCRIPTION

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

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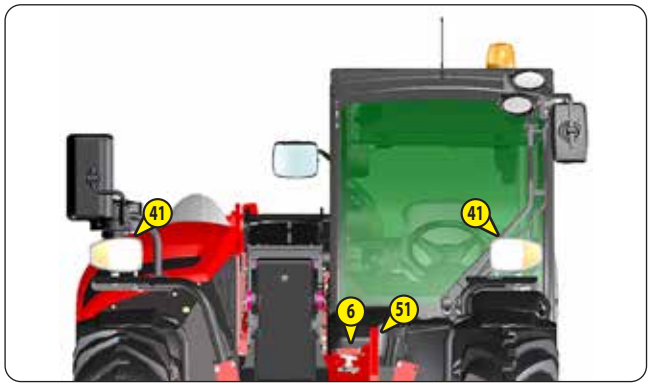

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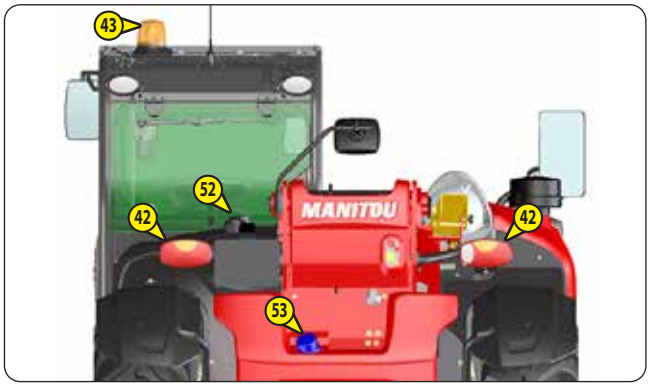

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EMERGENCY BRAKE

SERVICE BRAKE



If the service brake is not working properly:

- Press down fully on the service brake pedal to immobilize the machine.
- Activate the hand-operated parking brake.

HAND-OPERATED PARKING BRAKE



⚠ IMPORTANT ⚠

Beware of sudden immobilization of the machine

In the event of immediate danger:

- Activate the hand-operated parking brake.

EMERGENCY EXIT

REAR WINDOW



Use the rear window as an emergency exit, in the event that it is impossible to leave the cab by the door or by opening the windshield.

- Remove the pin to fully open the rear window.

EMERGENCY HAMMER



Use the emergency hammer to break one of the windows in the event that it is impossible to exit the cab by the door or by opening the rear window.

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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 - Right handle.
  3 - Step.



2 - STEP LIGHTING



3 - DRIVER'S SEAT

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

⚠ IMPORTANT ⚠

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

MAINTENANCE

⚠ IMPORTANT ⚠

A moving backrest increases the risk of an accident!

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

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

DRIVER'S SEAT "CLASSIC"

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



WEIGHT ADJUSTMENT

It is recommended to adjust the weight when the driver is not in the seat.

- Refer to graduation 1 of the seat.
- Turn handle 2 according to the driver's weight.

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

HEADREST

- The height of the headrest 3 can be adjusted by pulling it upward (the notches will click) up to the stop.
- The headrest can be removed by applying sufficient pressure to pull it off the stop.

BACKREST ANGLE ADJUSTMENT

⚠ IMPORTANT ⚠

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

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

LONGITUDINAL ADJUSTMENT

- Engage the locking lever 5 in the desired position. Once locked, you can no longer move the seat into another position.

PNEUMATIC DRIVER'S SEAT "PREMIUM"



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

WEIGHT AND SEAT HEIGHT ADJUSTMENT

WEIGHT ADJUSTMENT

Adjust the seat according to your weight while correctly seated.

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

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

SEAT HEIGHT ADJUSTMENT

⚠ IMPORTANT ⚠

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

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

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

HEADREST

- The height of the headrest 3 can be adjusted by pulling it upward (the notches will click) up to the stop.
- The headrest can be removed by applying sufficient pressure to pull it off the stop.

BACKREST ANGLE ADJUSTMENT

⚠ IMPORTANT ⚠

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

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

LONGITUDINAL ADJUSTMENT

- Engage the locking lever 5 in the desired position. Once locked, you can no longer move the seat into another position.

PNEUMATIC DRIVER'S SEAT "ÉLITE"



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

WEIGHT AND SEAT HEIGHT ADJUSTMENT

⚠ IMPORTANT ⚠

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

WEIGHT ADJUSTMENT

Adjust the seat according to your weight while correctly seated.

- Switch on lift truck ignition.
- Briefly pull up lever 1 to automatically adjust the seat according to your weight.

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

SEAT HEIGHT ADJUSTMENT

- Fully push in or pull out lever 1 to adjust the height of the seat. When the upper or lower end stop is reached, the seat automatically adjusts itself, thus minimizing the damping stroke.

HORIZONTAL SHOCK ABSORBER

In certain conditions (e.g. driving with a trailer) it is advised the horizontal shock absorber 2 be used. The driver's seat is thus better able to absorb jerks in the direction of travel.

- Position A: Horizontal shock absorber removed.
- Position B: Horizontal shock absorber fitted.

HEADREST

- The height of the headrest 3 can be adjusted by pulling it upward (the notches will click) up to the stop.
- The headrest can be removed by applying sufficient pressure to pull it off the stop.

BACKREST ANGLE ADJUSTMENT

⚠ IMPORTANT ⚠

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

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

LONGITUDINAL ADJUSTMENT

- Engage the locking lever 5 in the desired position. Once locked, you can no longer move the seat into another position.

LUMBAR ADJUSTMENT

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

- Turn the handle 6 either left or right to adjust the height or depth of the lumbar support.

HEATED PNEUMATIC DRIVER'S SEAT "LUXE"



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

WEIGHT AND SEAT HEIGHT ADJUSTMENT

⚠ IMPORTANT ⚠

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

WEIGHT ADJUSTMENT

Adjust the seat according to your weight while correctly seated.

- Switch on lift truck ignition.
- Briefly pull up lever 1 to automatically adjust the seat according to your weight.

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

SEAT HEIGHT ADJUSTMENT

- Fully push in or pull out lever 1 to adjust the height of the seat. When the upper or lower end stop is reached, the seat automatically adjusts itself, thus minimizing the damping stroke.

HORIZONTAL SHOCK ABSORBER

In certain conditions (e.g. driving with a trailer) it is advised the horizontal shock absorber 2 be used. The driver's seat is thus better able to absorb jerks in the direction of travel.

- Position A: Horizontal shock absorber removed.
- Position B: Horizontal shock absorber fitted.

HEADREST

- The height of the headrest 3 can be adjusted by pulling it upward (the notches will click) up to the stop.
- The headrest can be removed by applying sufficient pressure to pull it off the stop.

BACKREST ANGLE ADJUSTMENT

⚠ IMPORTANT ⚠

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

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

LONGITUDINAL ADJUSTMENT

- Engage the locking lever 5 in the desired position. Once locked, you can no longer move the seat into another position.

LUMBAR ADJUSTMENT

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

- The lumbar support in the upper or lower part of the backrest can be separately adjusted by operating the upper or lower switch.
- The curvature of the lumbar adjustment setting is adjusted by pressing "+" or "-" on the corresponding switch 6.
- Release the switch when the desired backrest curvature is achieved.

HEATING

- Operate switch 7 to enable or disable the seat heating function.

4 - ARMREST AND STORAGE

Lift the armrest to access the storage.



⚠ IMPORTANT ⚠

Make sure that the armrest's position is as ergonomic as possible to improve comfortable operation or handling hydraulics.

5 - 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.

6 - BATTERY CUT-OFF



if work is being done on the electrical system or in an emergency to isolate a short-circuit.

⚠ IMPORTANT ⚠

Except in an emergency (fire, accident, overturning of the lift truck), never operate the battery cut-off with the engine running as this could damage the alternator and the lift truck's electronic components.

- Switch off the ignition with the key, wait 30 seconds, then operate the battery cut-off.

NOTE: Wait 5 minutes before disconnecting the battery, this is required in order to purge the Diesel Exhaust Fluid (DEF) system.

7 - EMERGENCY STOP



In the event of danger, it enables the engine to be shut down, thereby cutting-off all hydraulic movements.

⚠ 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.

- Turn switch to disable.

8 - IGNITION SWITCH



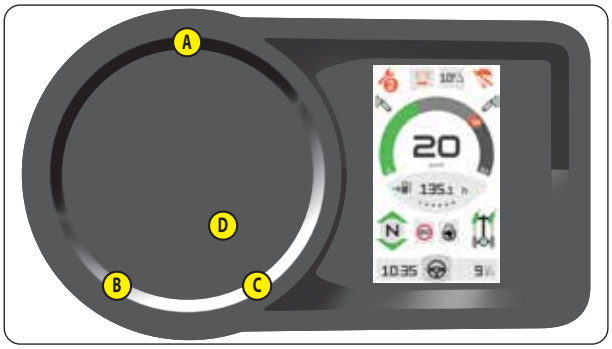
This switch has 5 positions:

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

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9 - DASHBOARD "HARMONY"

INSTRUMENTS AND INDICATORS



A - TACHOMETER

B - ENGINE WATER TEMPERATURE

If the indicator lamp comes on when the lift truck is running,

this means that the coolant temperature is high. Leave the engine idling to lower the water temperature. If the fault persists, turn the engine off and investigate the cooling circuit for the cause of the malfunction.

C - FUEL LEVEL

Indicator lamp , indicates that you are in reserve and that your running time is limited.

D - LEVEL "DEF" (Diesel Exhaust Fluid)

The indicator lamp comes on if the level is below 15%.

BATTERY LOAD FAULT INDICATOR

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

STEERING SYSTEM OIL PRESSURE FAULT INDICATOR

If the indicator comes on when the lift truck is running, stop the engine immediately and determine the cause (possible leak, etc.).

WATER IN FUEL PRE-FILTER FAULT INDICATOR

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

BRAKE FLUID PRESSURE FAULT INDICATOR

If the lamp and the buzzer come on when the lift truck is running, stop the engine immediately and consult your dealer.

ENGINE OIL PRESSURE FAULT INDICATOR

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).

NOTE: 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.

ENGINE PREHEATING INDICATOR

Preheat is necessary. When the lift truck is switched on, the indicator lamp comes on for 2 seconds and goes off as soon as preheat is ended. Start the lift truck's engine.

TRANSMISSION OIL PRESSURE FAULT INDICATOR

The indicator lamp and buzzer come on when there is an abnormal drop in transmission pressure, in forward gear. Stop the engine and determine the cause (transmission oil level, possible leak, radiator, etc.).

NOTE: This indicator lamp operates in forward travel conditions only, and can be ignored when the lift truck is stopped with the engine running at min rpm.

TRANSMISSION OIL TEMPERATURE FAULT INDICATOR

The indicator and buzzer come on when transmission oil temperature is abnormally high. Stop the engine and determine the cause (transmission oil level, possible leak, radiator, etc.).

HYDRAULIC RETURN FILTER OR HYDROSTATIC TRANSMISSION FILTER CLOGGING FAULT INDICATOR

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

ENGINE COOLANT LEVEL FAULT INDICATOR

If the indicator lamp 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.).

ENGINE STOPPED FAULT INDICATOR

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

AIR FILTER CLOGGING FAULT INDICATOR

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

ENGINE FAULT INDICATOR

If the indicator lamp 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.

FAULT INDICATOR "SCR" (selective catalytic reduction)

The indicator comes on if the system is above the efficiency threshold or if a diesel exhaust fluid quality problem is detected.

Flashing AdBlue indicator light + + audible signal	-Level of "DEF" (diesel exhaust fluid) under 10%.
+ + audible signal	-Consult your dealer as soon as possible.

CRYSTALLIZATION OR SULFURIZATION LEVEL INDICATOR

If the indicator lamp flashes while the lift truck is in operation, perform a "STATIONARY LIFT TRUCK" EXHAUST REGENERATION (◁ 3 - MAINTENANCE: OCCASIONAL MAINTENANCE).

The indicator lamp also comes on when the count (700h = > 0h) before next regeneration has elapsed.

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INFORMATION SCREEN



HIGH BEAM HEADLIGHTS INDICATOR

LOW BEAM HEADLIGHTS INDICATOR

TURN SIGNAL INDICATOR

PARKING BRAKE LAMP

BEACON INDICATOR

MAINTENANCE REQUIRED

MAINTENANCE OVERDUE

MAINTENANCE OVERDUE + NUMBER OF ERROR CODES

BOOM ANGLE

HYDRAULIC MOVEMENT NEUTRALIZATION

DISABLING "AGGRAVATING" HYDRAULIC MOVEMENT CUT-OFF

NOT USED

FORWARD/NEUTRAL/REVERSE GEAR

When cold starting the lift truck, the direction of travel arrows are blue N and the speed is slow. This time delay is variable depending on the ambient temperature and enables the transmission to be brought up to temperature.

GEAR RATIO

ECO MODE
Can be activated from the "PREFERENCES" menu (◅ INFORMATION SCREEN CONTROL CONSOLE).

SPEED LIMITER RECALL
◅ DESCRIPTION AND USE OF THE OPTIONS

JSM AutoPower
Increase in the engine speed during use of the hydraulic controls.
Can be activated from the "PREFERENCES" menu (◅ INFORMATION SCREEN CONTROL CONSOLE).

WHEEL STEERING INDICATOR

CLOCK

DRIVING MODE

WORK MODE

EXTERNAL TEMPERATURE

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HOUR METER

- This screen is displayed for a few seconds when the ignition is switched on.



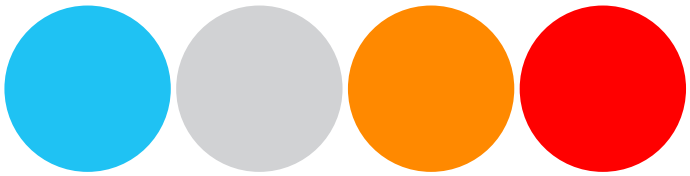
SPEEDOMETER

- This screen is displayed in driving mode.



HYDRAULIC FLOW RATE ADJUSTMENT

- This screen is displayed in work mode.



POP UP

- Blue POP UP: information message.
- Grey POP UP: operating message.
- Orange POP UP: warning message.
- Red POP UP: fault message, consult your dealer.



INFORMATION SCREEN

- Hold down and turn the navigation knob A to change the mode.



- 

Total hour meter.
- 

Partial hour meter.
- 

Instantaneous fuel consumption.
- 

Average fuel consumption.
- 

Fuel autonomy.
- 
Tachometer.

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10 - DASHBOARD "VISION"

INSTRUMENTS AND INDICATORS



A - TACHOMETER

B - ENGINE WATER TEMPERATURE

If the indicator lamp comes on when the lift truck is running, this means that the coolant temperature is high. Leave the engine idling to lower the water temperature. If the fault persists, turn the engine off and investigate the cooling circuit for the cause of the malfunction.

C - FUEL LEVEL

Indicator lamp, indicates that you are in reserve and that your running time is limited.

D - LEVEL "DEF" (Diesel Exhaust Fluid)

The indicator lamp comes on if the level is below 15%.

E - FAULT WARNING LAMP DISPLAY ZONE

A maximum of five indicator lamps are displayed in the display zone. A red arrow indicates a sixth fault. Beyond six faults, the arrow flashes.

BATTERY LOAD FAULT INDICATOR

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

STEERING SYSTEM OIL PRESSURE FAULT INDICATOR

If the indicator comes on when the lift truck is running, stop the engine immediately and determine the cause (possible leak, etc.).

WATER IN FUEL PRE-FILTER FAULT INDICATOR

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

BRAKE FLUID PRESSURE FAULT INDICATOR

If the lamp and the buzzer come on when the lift truck is running, stop the engine immediately and consult your dealer.

ENGINE OIL PRESSURE FAULT INDICATOR

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).

NOTE: 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.

ENGINE PREHEATING INDICATOR

Preheat is necessary. When the lift truck is switched on, the indicator lamp comes on for 2 seconds and goes off as soon as preheat is ended. Start the lift truck's engine.

TRANSMISSION OIL PRESSURE FAULT INDICATOR

The indicator lamp and buzzer come on when there is an abnormal drop in transmission pressure, in forward gear. Stop the engine and determine the cause (transmission oil level, possible leak, radiator, etc.).

NOTE: This indicator lamp operates in forward travel conditions only, and can be ignored when the lift truck is stopped with the engine running at min rpm.

TRANSMISSION OIL TEMPERATURE FAULT INDICATOR

The indicator and buzzer come on when transmission oil temperature is abnormally high. Stop the engine and determine the cause (transmission oil level, possible leak, radiator, etc.).

HYDRAULIC RETURN FILTER OR HYDROSTATIC TRANSMISSION FILTER CLOGGING FAULT INDICATOR

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

ENGINE COOLANT LEVEL FAULT INDICATOR

If the indicator lamp 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.).

ENGINE STOPPED FAULT INDICATOR

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

AIR FILTER CLOGGING FAULT INDICATOR

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

ENGINE FAULT INDICATOR

If the indicator lamp 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.

FAULT INDICATOR "SCR" (selective catalytic reduction)

The indicator comes on if the system is above the efficiency threshold or if a diesel exhaust fluid quality problem is detected.

Flashing indicator light + + audible signal	-Level of "DEF" (diesel exhaust fluid) under 10%.
+ + audible signal	-Consult your dealer as soon as possible.

CRYSTALLIZATION OR SULFURIZATION LEVEL INDICATOR

If the indicator lamp flashes while the lift truck is in operation, perform a "STATIONARY LIFT TRUCK" EXHAUST REGENERATION (◁ 3 - MAINTENANCE: OCCASIONAL MAINTENANCE).

The indicator lamp also comes on when the count (700h = > 0h) before next regeneration has elapsed.

INFORMATION SCREEN



HIGH BEAM HEADLIGHTS INDICATOR

LOW BEAM HEADLIGHTS INDICATOR

TURN SIGNAL INDICATOR

PARKING BRAKE LAMP

BEACON INDICATOR

BOOM ANGLE

MAINTENANCE REQUIRED

MAINTENANCE OVERDUE

MAINTENANCE OVERDUE + NUMBER OF ERROR CODES

HYDRAULIC MOVEMENT NEUTRALIZATION

DISABLING "AGGRAVATING" HYDRAULIC MOVEMENT CUT-OFF

FORWARD/NEUTRAL/REVERSE GEAR

When cold starting the lift truck, the direction of travel arrows are blue and the speed is slow. This time delay, which varies according to the ambient temperature, serves to bring the transmission gearbox up to temperature.

GEAR RATIO

ECO MODE
Can be activated from the "PREFERENCES" menu (◅ INFORMATION SCREEN CONTROL CONSOLE).

SPEED LIMITER RECALL
◅ DESCRIPTION AND USE OF THE OPTIONS

JSM AutoPower
Increase in the engine speed during use of the hydraulic controls.
Can be activated from the "PREFERENCES" menu (◅ INFORMATION SCREEN CONTROL CONSOLE).

WHEEL STEERING INDICATOR

CLOCK

DRIVING MODE

WORK MODE

CAMERA (OPTION)

EXTERNAL TEMPERATURE

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HOUR METER

- This screen is displayed for a few seconds when the ignition is switched on.



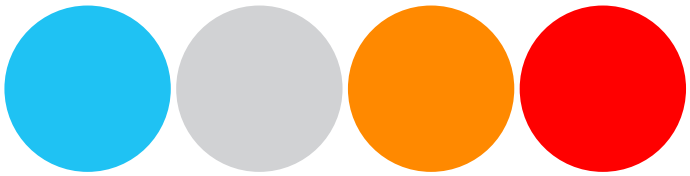
SPEEDOMETER

- This screen is displayed in driving mode.



HYDRAULIC FLOW RATE ADJUSTMENT

- This screen is displayed in work mode.



POP UP

- Blue POP UP: information message.
- Grey POP UP: operating message.
- Orange POP UP: warning message.
- Red POP UP: fault message, consult your dealer.



INFORMATION SCREEN

- Hold down and turn the navigation knob A to change the mode.



- 

Total hour meter.
- 

Partial hour meter.
- 

Instantaneous fuel consumption.
- 

Average fuel consumption.
- 

Fuel autonomy.
- 
Tachometer.

11 - NOT USED

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12 - INFORMATION SCREEN CONTROL CONSOLE



NOTE: The content of the "PREFERENCES" and "INFORMATION" menus varies according to the lift truck equipment.

A - NAVIGATION AND VALIDATION BUTTON

B - PREFERENCES MENU

- Press button B to display the "PREFERENCES" menu
- Turn knob A to navigate through the menus and sub-menus.
- Press knob A to confirm.

SYSTEM	>	DATE AND TIME		
	>	LANGUAGES		
	>	UNITS		
	>	SCREEN		
	>	POP UPS		
	>	DIGICODE		
	>	CAMERAS		
	>	CUSTOMER CODE		
	>	CONFIGURATION (customer or expert code)	>	PARTIAL HOUR METER RESET
			>	MAINTENANCE HOUR METER RESET
TRANSMISSION	>	ECO MODE		
	>	MANUAL ACCELERATOR	>	VARI DRIVE (LIFT TRUCK ADVANCE)
			>	ENGINE DRIVE (ENGINE SPEED)
	>	TRAILER BRAKE TEST		
HYDRAULICS	>	STABILITY TEST		
	>	STABILITY REBALANCING		
	>	LSU HYDRAULICS		
	>	EASY CONNECT SYSTEM		
	>	JSM AutoPower		
	>	AXLE BLOCKING TEST		
	>	CONFIGURATION (customer or expert code)	>	OVERRIDE
			>	MANUAL OVERRIDE NO DRIVER
ENGINE SPECIFICATION	>	ECO STOP		
	>	FAN DRIVE		
	>	REGENERATION		

EXPERT (expert code)	>	STABILITY CALIBRATION
	>	BOOM ANGLE CALIBRATION
	>	INCHING PEDAL CALIBRATION
	>	CARRIAGE ANGLE CALIBRATION
	>	DISTRIBUTOR CALIBRATION
	>	INCLINOMETER CALIBRATION
	>	EXPERT CODE

C - INFORMATION MENU

- Press the button to display the “INFORMATION” menu
- Turn knob A to navigate through the menus and sub-menus.
- Press knob A to confirm.

REPAIR	>	FAULTS
MAINTENANCE	>	MAINTENANCE RESET
GENERAL	>	IDENTIFICATION
	>	SOFTWARE VERSION

D - BACK

- Press the button to return to the previous screen.

HYDRAULIC MOVEMENT NEUTRALIZATION

When driving on the road, it is highly recommended (mandatory in Germany) that you disconnect all hydraulic movement. The indicator lamp will light and the pictogram will be displayed on the screen when it is in use.

ROTATING BEACON

The indicator lamp indicates it is in use.

HAZARD WARNING LIGHTS

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13 - PUSH BUTTON PANEL

BUTTON FUNCTIONS

- Red button: Safety.
- Orange button: Transmission / Engine.
- Blue button: Hydraulics.
- Black button: Other.

BUTTON DIAGNOSTICS

- If all buttons are unlit, there is a power supply problem. Contact your dealer.
- If all buttons are flashing, there is a connection problem. Contact your dealer.





NOT USED

SMOOTH TRANSMISSION

- Smoother engine brake.
- Forward/reverse gear change less responsive.
- Reduced accelerator pedal sensitivity, improved lift truck forward movement stability.

NOTE: To reduce the sensitivity of the accelerator pedal even further, use the SPEED LIMITER (OPTION). As the travel of the accelerator pedal is always the same, the more the speed is limited, the more the sensitivity of the pedal is reduced.

DYNAMIC TRANSMISSION

- More powerful engine brake.
- Forward/reverse gear change more responsive.
- Increased sensitivity of the accelerator pedal, for loading work for example.

NOTE: For intensive loading work, use the SPEED LIMITER (OPTION) to improve the responsiveness of the lift truck during loading and unloading cycles.

ENGINE SPEED MEMORIZATION (OPTION)

◁ DESCRIPTION AND USE OF THE OPTIONS

SPEED LIMITER (OPTION)

◁ DESCRIPTION AND USE OF THE OPTIONS

USE OF FRONT OR REAR ATTACHMENT SYSTEM (OPTION)

◁ DESCRIPTION AND USE OF THE OPTIONS

BOOM SUSPENSION (OPTION)

◁ DESCRIPTION AND USE OF THE OPTIONS

FORCED BOOM SUSPENSION (OPTION)

◁ DESCRIPTION AND USE OF THE OPTIONS

ATTACHMENT CIRCUIT FLOW RATE LIMITER (OPTION)

◁ DESCRIPTION AND USE OF THE OPTIONS

ATTACHMENT CIRCUIT MANUAL OVERRIDE (OPTION)

◁ DESCRIPTION AND USE OF THE OPTIONS

TILT CIRCUIT LOCKING (OPTION)

- Press the button to shut off the tilt circuit hydraulic movements. The indicator lamp indicates it is in use.

ATTACHMENT CIRCUIT LOCKING (OPTION)

- Press the button to shut off the attachment circuit hydraulic movements. The indicator lamp indicates it is in use.

AUTOMATIC FAN REVERSAL

Cleans the radiator core and the grille of the engine hood by reversing the air flow.



⚠ IMPORTANT ⚠

The ventilation reversal is operational from an engine coolant temperature of 40 °C.
When in use, beware of the risk of projection into the eyes.

- The indicator lamp is on, the fan operates in self-cleaning mode for a few seconds once every 3 minutes.
- The default cycle time is 3 minutes.
- Press button B to display the "PREFERENCES" menu
- Turn knob A to navigate through the menus and sub-menus.

ENGINE SPECIFICATION		"FAN DRIVE" VENTILATION REVERSAL

- Select the cycle time and press knob A to confirm.

FORCED VENTILATION REVERSAL

- Press the button to force a cleaning cycle. The indicator lamp will light when it is in use.
- Wait for the cycle time between each request.

SEMI-AUTOMATIC WHEEL ALIGNMENT (OPTION)

◁ DESCRIPTION AND USE OF THE OPTIONS

EXHAUST REGENERATION

◁ 3 - MAINTENANCE: OCCASIONAL MAINTENANCE

ECO STOP (OPTION)

◁ DESCRIPTION AND USE OF THE OPTIONS

NOT USED

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14 - SWITCHES



BOOM HEAD WORKLIGHTS (OPTION)

FRONT WORKLIGHTS

REAR WORKLIGHTS

SIDE WORKLIGHTS (OPTION)

REAR FOG LIGHTS



BOOM HEAD ELECTROVALVE (OPTION)

BOOM ELECTRICAL PREDISPOSITION (OPTION)

◁ DESCRIPTION AND USE OF THE OPTIONS

MAIN RIGHT REAR-VIEW MIRROR DEFROST (OPTION)

BLUE WORKLIGHTS (OPTION)

15 - 12V SOCKET



For 12 V appliance and max. amperage 10A.

16 - DIAGNOSTIC PLUG

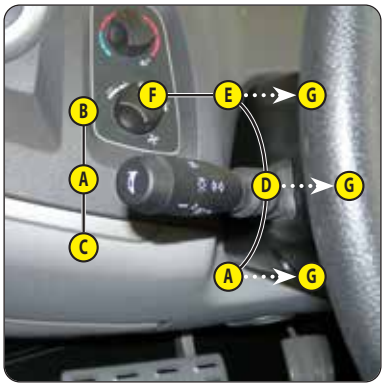


17 - USB RECHARGING SOCKET



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18 - LIGHTING, HORN AND INDICATOR SWITCH



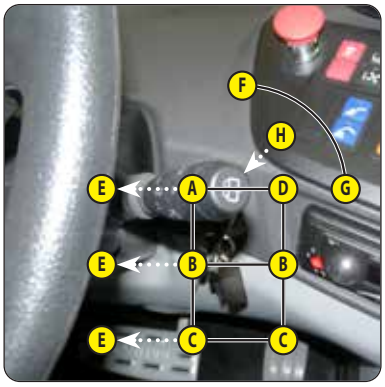
The switch controls the visual and sound alarms.

- A - All lights are off, the turn signals do not flash.
- B - The right-hand turn signals flash.
- C - The left-hand turn signals flash.
- D - The sidelights and rear lights are on.
- E - The dipped beam headlights and rear lights are on.
- F - The main beam headlights and rear lights are on.
- G - Headlight signaling.

Pressing the end of the switch sounds the horn.

NOTE: Positions D - E - F - G can be used without switching on the ignition.

19 - FRONT AND REAR WINDSHIELD WIPER SWITCH



FRONT WINDSHIELD WIPER

- A - Front windshield wiper off.
- B - Front windshield wiper low speed setting.
- C - Front windshield wiper low speed setting.
- D - Front windshield wiper intermittent operation.
- E - Front windshield wiper pulse driven.

REAR WINDSHIELD WIPER

- F - Rear windshield wiper off.
- G - Rear windshield wiper on.
- H - Rear windshield washer, pulse driven (not used).

NOTE: These functions will only work when the ignition is switched on.

20 - FUSES AND RELAYS IN THE CAB

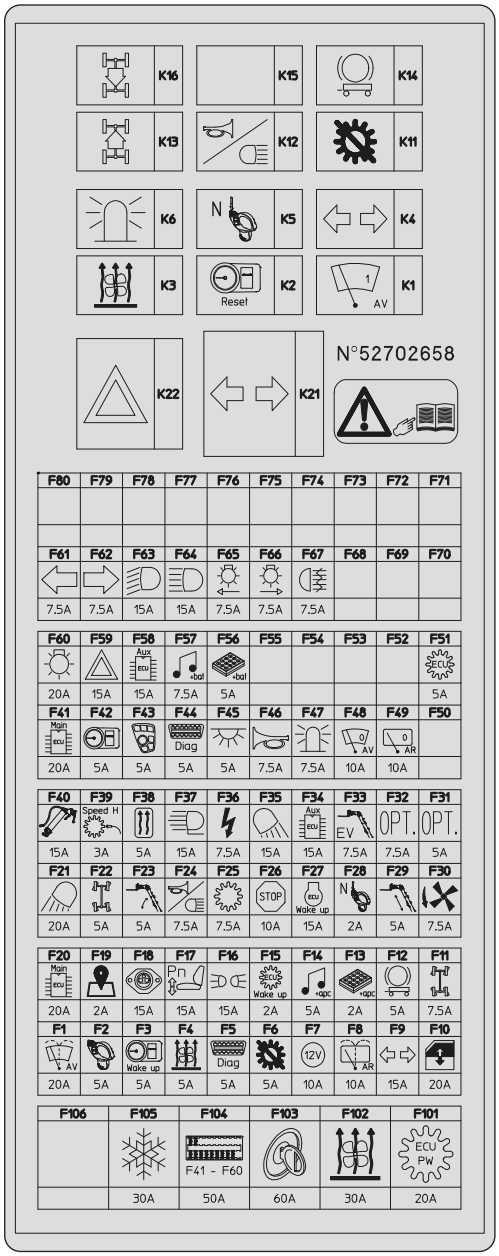


A sticker on the inside of the access panel provides a quick indication of the use of the fuse plate's components described below.

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

MINIFUSE

F1	**20A**	Front windshield wiper. Front windshield washer. Relay (K1 K2).
F2	**5A**	JSM joystick.
F3	**5A**	Screen/navigator wake-up.
F4	**5A**	Relay (K3). Relay (K25) (OPTION).
F5	**5A**	Diagnostics plug.
F6		Unused.
F7	**10A**	12 V plug.
F8	**10A**	Rear windshield wiper. Rear windshield washer.
F9	**15A**	Relay (K4 K21).
F10	**20A**	Window wind up.
F11	**7,5A**	Steering selection.
F12	**5A**	Trailer brake valve. Relay (K14).
F13	**2A**	Customer immobilizer (OPTION).
F14	**5A**	Car radio.
F15	**2A**	Hydrostatic transmission ECU wake-up power supply.
F16	**15A**	Side worklights (OPTION).
F17	**15A**	Pneumatic seat (OPTION).
F18	**15A**	3-pin 12 V connector (OPTION).
F19	**2A**	Immobilizer (OPTION).
F20	**20A**	Main ECU SPU 40-26.
F21	**20A**	Front worklights. Relay (K13).
F22	**5A**	Wheel alignment sensors.
F23	**5A**	Boom angle sensor.
F24	**7,5A**	Relay (K12).
F25	**7,5A**	Relay (K13 K16).
F26	**10A**	Stop switch.
F27	**15A**	Engine ECU wake-up. Engine sensor.
F28	**2A**	Transmission neutral.
F29		Unused.
F30	**7,5A**	Ventilation reversal.
F31	**5A**	Relay (K15) (OPTION). Pneumatic braking (OPTION).
F32	**7,5A**	Blue worklights (OPTION).
F33	**7,5A**	Boom head solenoid valve (OPTION).
F34	**15A**	Auxiliary ECU SPU 25-15 (OPTION).
F35	**15A**	Rear worklights.
F36	**7,5A**	Boom head electric power socket (OPTION).
F37	**15A**	Worklights on boom (OPTION).
F38	**5A**	Electric rear-view mirror and defrost (OPTION).
F39	**3A**	Hydrostatic transmission sensor power supply.
F40	**15A**	Central lubrication power supply (OPTION).
F41	**20A**	Main ECU SPU 40-26.
F42	**5A**	Relay (K2).
F43	**5A**	Information screen control console.
F44	**5A**	Diagnostics plug.
F45	**5A**	Roof light.
F46	**7,5A**	Horn.
F47	**7,5A**	Relay (K6).
F48	**10A**	Front windshield wiper automatic return.
F49	**10A**	Rear windshield wiper automatic return.
F50		Unused.
F51	**5A**	Hydrostatic transmission ECU power supply.



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F52		Unused.
F53		Unused.
F54		Unused.
F55		Unused.
F56	**5A**	Customer immobilizer (OPTION).
F57	**7,5A**	Car radio.
F58	**15A**	Auxiliary ECU SPU 25-15 (OPTION).
F59	**15A**	Relay (K4).
F60	**20A**	Lighting, horn and indicator switch.

F61	**7,5A**	Left turn signals.
F62	**7,5A**	Right turn signals.
F63	**15A**	Dipped beam headlights.
F64	**15A**	Main beam headlights.
F65	**7,5A**	Left sidelights.
F66	**7,5A**	Right sidelights.
F67	**7,5A**	Rear fog lights.
F68		Unused.
F69		Unused.
F70		Unused.
F71		Unused.
F72		Unused.
F73		Unused.
F74		Unused.
F75		Unused.
F76		Unused.
F77		Unused.
F78		Unused.
F79		Unused.
F80		Unused.

MAXIFUSE

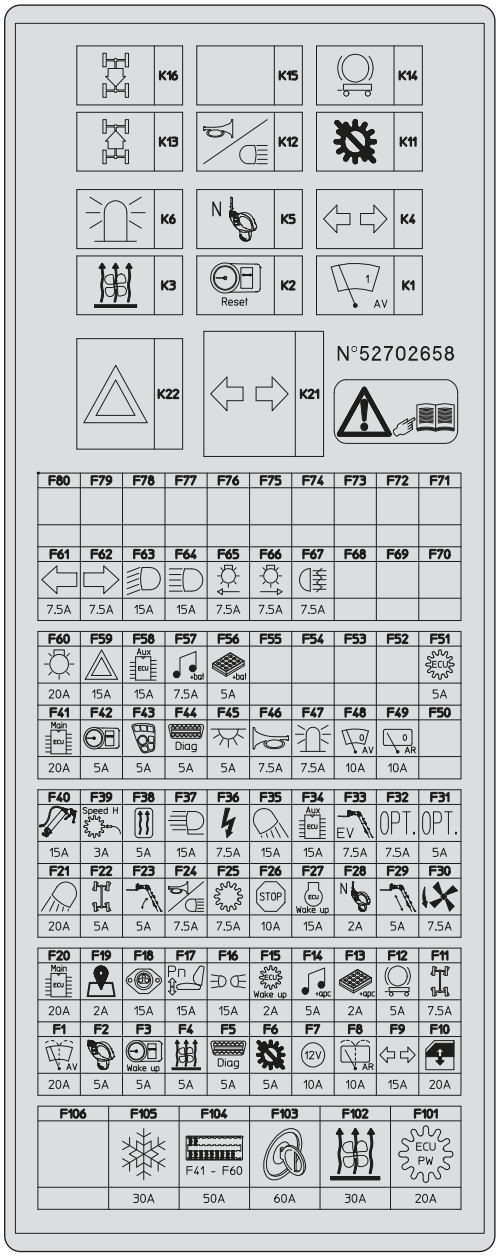
F101	**20A**	Hydrostatic transmission ECU power supply.
F102	**30A**	Relay (K3).
F103	**60A**	Ignition switch.
F104	**50A**	Module 3 fuses (F41 - F60).
F105	**30A**	Air conditioning (OPTION).
F106		Unused.

RELAYS

K1	Front windshield wiper speed 1.
K2	Dashboard power supply.
K3	Fan/heating.
K4	Flashing light unit power supply.
K5	Transmission neutral.
K6	Rotating beacon.

K11	Transmission cut-off.
K12	Backup lights and backup alarm.
K13	Forward gear.
K14	Trailer brake test.
K15	Camera control (OPTION).
K16	Reverse gear.

K21	Flashing unit.
K22	Hazard warning lights.



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21 - FUSES AND RELAYS UNDER THE ENGINE HOOD

- Open the engine hood, remove cover 1 to gain access to the fuses and relays. Replace a blown fuse with a new fuse of the same quality and rating. Never use a repaired fuse.

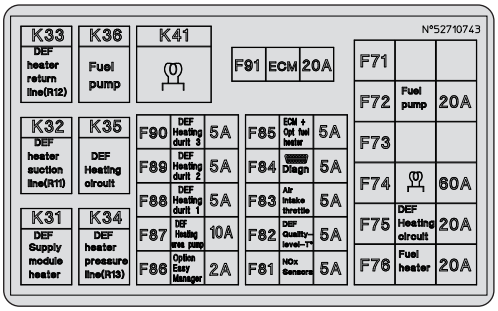


MAXIFUSE

F71		Unused.
F72	20A	Relay (K36).
F73		Unused.
F74	60A	Relay (K41).
F75	30A	Relay (K35).
F76	20A	Fuel preheater (OPTION).

MINIFUSE

F81	5A	Sensor power supply NOx.
F82	5A	Quality, level and temperature sensor "DEF".
F83	5A	Air intake valve.
F84	5A	Engine diagnostic plug
F85	5A	Engine ECU wake-up. Fuel preheater (OPTION).
F86	2A	Immobilizer (OPTION).
F87	10A	Supply pump "DEF".
F88	5A	Pressure line preheat "DEF".
F89	5A	Return line preheat "DEF".
F90	5A	Suction line preheat "DEF".



MAXIFUSE

F91	30A	Engine control power unit.

RELAYS

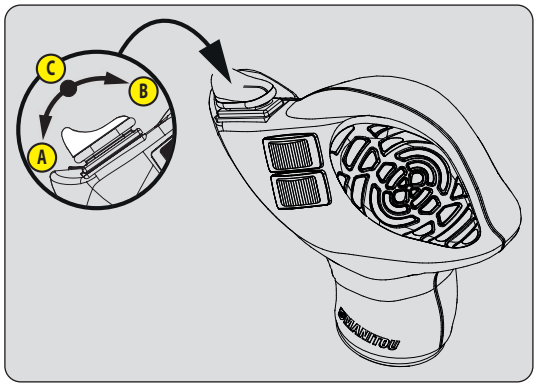
K24	Fuel preheater (OPTION).
K25	Fuel preheater (OPTION).

K31	Supply pump heating "DEF".
K32	Hose 1 heating "DEF".
K33	Hose 2 heating "DEF".
K34	Hose 3 heating "DEF".
K35	Heating system "DEF".
K36	Fuel pump.

K41	Preheat.



22 - FORWARD/NEUTRAL/REVERSE GEAR SELECTION



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

- FORWARD: Push the switch forward (position A).
- REVERSE: Push the switch backward (position B). Reversing lights and a backup alarm indicate that the lift truck is traveling in reverse.
- NEUTRAL: The switch must be in the neutral position (position C) to start the lift truck.

SAFETY FOR MOVING THE LIFT TRUCK

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

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

NOTE: The alternate display of the forward or reverse section arrow 

on the information screen requires the selector to be set to neutral.

To stop the forklift truck without switching off the ignition, the following sequence must be followed:

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

NOTE: A discontinuous audible signal and a message on the screen will inform the driver if he has left the driver's cab without applying the parking brake.

23 - GEAR SELECTOR



The gear can be selected by means of the (-) and (+) buttons. The engaged gear is indicated on the information screen 

.

- GEAR 1: Recommended for work that calls for more traction or thrust force at low speed (e.g. silaging, earthwork, manure, towing on steep slope, etc.).
- GEAR 2: Recommended for all other work at low or high speed, making the lift truck versatile (e.g. handling, loading, livestock feeding, towing on the flat or a slight slope, driving on roads, etc.).

24 - STEERING SELECTION

⚠ IMPORTANT ⚠

Before selecting one of the three steering possibilities, align the 4 wheels in relation to the lift truck axis.
Never change the steering mode whilst driving.

The green indicator lights on the information screen  come on to indicate the alignment of the wheels relative to the lift truck.

A - STEERING SELECTION SWITCH



- Press the button to select the steering.
  - Front steering wheels (road mode).
  - Front and rear steering wheels in opposite directions (short steering).
  - Front and rear steering wheels in the same direction (crab steering).

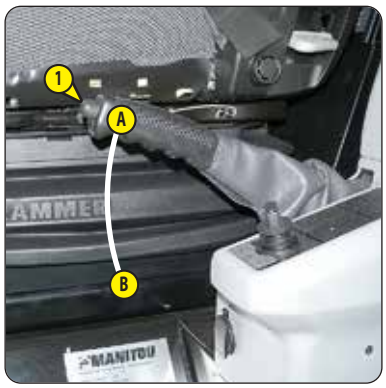
WHEEL ALIGNMENT CONTROL

⚠ IMPORTANT ⚠

Check the alignment of the front and rear wheels each time the lift truck is started.
Regularly check the alignment of the wheels when using the lift truck.
The wheels must be aligned and the lift truck must be in front steering wheels mode when used on public roads.
A green light illuminates on the dashboard when the wheels are aligned.
Contact your dealer if you have any questions.

- Select "short steering".
- Turn the steering wheel and bring the rear wheels into alignment until the indicator lamps light on the rear wheels.
- Select "road driving".
- Turn the steering wheel and bring the rear wheels into alignment until the indicator lamps light on the front wheels.

25 - PARKING BRAKE LEVER



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

- Press button 1 to disable the safety lock.
- Pull the lever (position A) to apply the parking brake.
- Lower the lever (position B) to release the parking brake.

26 - ACCELERATOR PEDAL



ENGINE SPEED ACCELERATION

- Press the accelerator pedal to increase the engine speed and start moving the lift truck if forward or reverse gear is selected.

NOTE: Use the inching pedal to shift the start of lift truck movement towards the top speed and therefore transfer the engine's power to the boom's hydraulic controls.

ENGINE SPEED DECELERATION

The service brake pedal does not need to be used to slow the lift truck down, with or without a trailer. Use of the engine brake is enough.

- Release the accelerator pedal proportionally to the required slowing, and if necessary press on the service brake pedal to immobilize the lift truck.

27 - SERVICE BRAKE AND INCHING PEDAL "INCHING"



In the first part of the travel, the pedal enables gradual cut-off of the transmission to perform inching. In the second part of the travel, the pedal acts on the front and rear wheels through a hydraulic braking system to immobilize the lift truck.

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28 - FUNCTION FILES

These files contain the description of the hydraulic controls and the load charts for the attachments used on the lift truck.



29 - HYDRAULIC BOOM CONTROLS

⚠ IMPORTANT ⚠

Do not try to modify the hydraulic pressure of the system. If it malfunctions contact your dealer. 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.

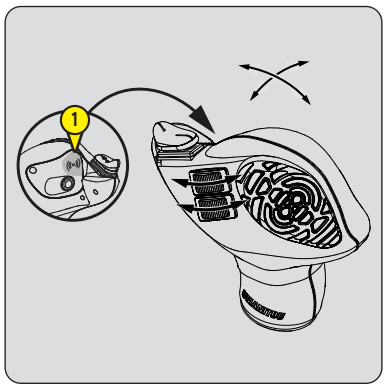
NOTE: If necessary, operate the steering to reset the hydraulic control steering accumulator.

NOTE: When driving on the road, it is highly recommended (mandatory in Germany) that you cut off all the hydraulic movements (◅ PUSH BUTTON PANEL).

HYDRAULIC CONTROLS ACTIVATION

This safety device prevents accidental operation of the hydraulic lifting, tilting, telescoping and attachment controls.

- Place your hand on the lever, activate the hydraulic controls by contact on sensor 1 and perform the hydraulic movement.
- Hydraulic controls activation is maintained on a timer while the lift truck is being used.
- If necessary, reactivate the hydraulic controls.



A1 - LIFTING

A2 - LOWERING

B1 - CROWD

B2 - DUMP

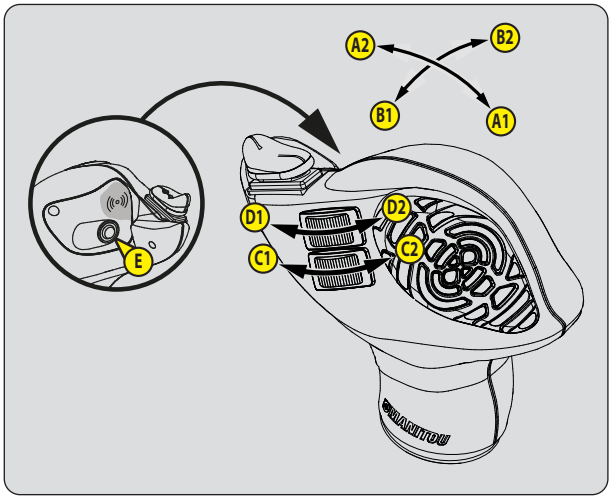
C1 - TELESCOPE EXTENSION

C2 - TELESCOPE RETRACTION

D1 - ATTACHMENT

D2 - ATTACHMENT

E - HYDRAULIC CONTROL (OPTION)
◅ DESCRIPTION AND USE OF THE OPTIONS



30 - LEVEL INDICATOR

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



31 - HEATER CONTROL



A - FAN CONTROL

This 4-speed control allows the air to be ventilated through the air vents.

B - TEMPERATURE CONTROL

Adjusts the temperature inside the cab.

- B1 - The fan pumps in the air at ambient temperature.
- B2 - The fan pumps in warm air.

The intermediate positions allow the temperature to be adjusted.

32 - AIR CONDITIONING CONTROLS (AIR CONDITIONING OPTION)

⚠ IMPORTANT ⚠

The air conditioning only works if the lift truck has been started.
When using your air conditioning, it is essential to work with the cab closed.
In winter: So as to ensure that the air conditioning unit is correctly operated and completely efficient, start up the compressor once a week, even for a short period of time, in order to lubricate the internal seals.
In cold weather: Warm the engine before switching on the compressor, in order to allow the coolant that has collected in the liquid state at the lowest point of the compressor's circuit to turn into gas under the effect of the heat given off by the engine, as the compressor is liable to be damaged by coolant in the liquid state.
If it seems to you that the air conditioning is not working properly, have it inspected by your dealer.
Never try to repair any faults yourself.



A - FAN CONTROL

This 4-speed control allows the air to be ventilated through the air vents.

B - TEMPERATURE CONTROL

Adjusts the temperature inside the cab.

- B1 - The fan pumps in cold air.
- B2 - The fan pumps in warm air.

The intermediate positions allow the temperature to be adjusted.

C - AIR CONDITIONING CONTROL

This control with a pilot light allows the air conditioning unit to be switched on.

HEATING MODE

- The controls must be adjusted in the following way:
  - C - Control with pilot light off.
  - B - At the desired temperature.
  - A - At the desired speed: 1, 2 or 3.

AIR CONDITIONING MODE

- The controls must be adjusted in the following way:
  - C - Control with indicator lamp on.
  - B - At the desired temperature.
  - A - At the desired speed: 1, 2 or 3.

DEFROST MODE

- The controls must be adjusted in the following way:
  - C - Control with indicator lamp on.
  - B - At the desired temperature.
  - A - At speed 2 or 3.
- For optimum effectiveness, close the heating vents.

33 - HEATING VENTS

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

34 - WINDSHIELD DEFROSTER VENTS

For optimum effectiveness, close the heating vents.

35 - WINDOW WINDER



36 - DOOR OPENING AND CLOSING HANDLE

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

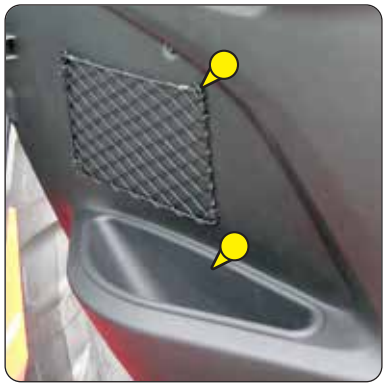
- Press the door handle trigger to open the door.
- Pull on the handle to close the door.

37 - REAR WINDOW STAY



38 - STORAGE NET

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



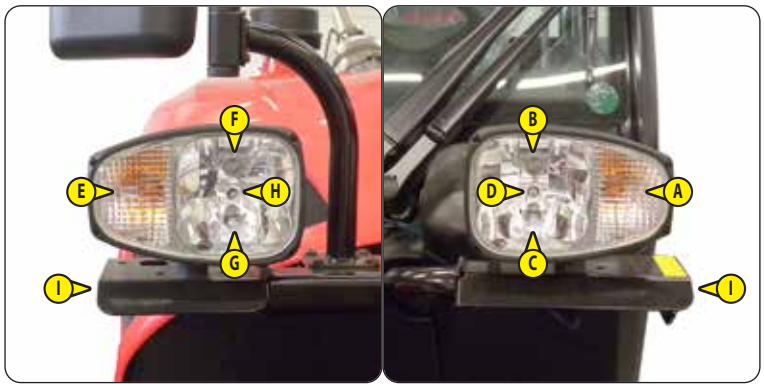
39 - STORAGE

40 - CUP HOLDER



41 - FRONT HEADLIGHTS

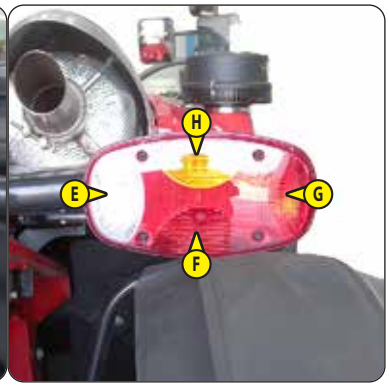
- A - Front left-hand indicator light.
- B - Front left-hand dipped headlight.
- C - Front left-hand headlight.
- D - Front left-hand sidelight.
- E - Front right-hand indicator light.
- F - Front right-hand low beam headlight.
- G - Front right-hand high beam headlight.
- H - Right front sidelight.
- I - Sidelights.



42 - REAR LIGHTS

- A - Rear left-hand indicator light.
- B - Rear left-hand stop light.
- C - Rear left-hand headlight.
- D - Rear fog light.
- E - Rear reversing light.
- F - Rear right hand headlight.
- G - Rear right-hand stop light.
- H - Rear right-hand indicator light.





43 - ROTATING BEACON

The magnetic rotating beacon light must be clearly visible on the roof of the cab and plugged into socket 1.



44 - SUN VISOR

45 - ROOF LIGHT

46 - COAT HOOK



47 - INTERNAL REAR-VIEW MIRROR

48 - TELEPHONE HOLDER



49 - STEERING WHEEL ADJUSTMENT LEVER

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

- Pull the knob backward.
- Adjust the steering wheel to the desired position.
- Push the knob back to lock the steering wheel in position.



50 - EMERGENCY HAMMER



51 - BOOM SAFETY WEDGE



⚠ IMPORTANT ⚠

Only use the wedge supplied with the lift truck.

The lift truck is equipped with a boom safety wedge which must be installed on the rod of the lifting cylinder when working beneath the boom (◁ 1 - OPERATING AND SAFETY INSTRUCTIONS).

52 - 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 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.

NOTE: A locking tank cap is available as an OPTION.

53 - TANK "DEF" (Diesel Exhaust Fluid)



⚠ IMPORTANT ⚠

Diesel exhaust fluid is corrosive: protect the bodywork and wear personal protective equipment (gloves and goggles).
The Diesel Exhaust Fluid level is important. Operating with a low or empty DEF tank level may affect engine performance.

- If necessary, add diesel exhaust fluid (◁ 3 - MAINTENANCE: LUBRICANTS AND FUEL).
- Remove the cap 1.
- Slowly fill the tank to the bottom of the filler neck.
- Always maintain a good level to avoid alternation of the product.
- Refit the cap.

NOTE: A locking tank cap is available as an OPTION.

QUALITY "DEF" (Diesel Exhaust Fluid)

The diesel exhaust fluid quality can be measured using a refractometer. The diesel exhaust fluid must comply with standard ISO 22241-1 with a urea concentration of 32.5%.

Refractometer (MANITOU part number: 959709)

STORAGE "DEF" (Diesel Exhaust Fluid)

Up to 4 months without using the lift truck, check the quality of the diesel exhaust fluid with a refractometer.

Beyond 4 months, replace the diesel exhaust fluid. Empty and rinse the tank.

NOTE: For a prolonged shutdown of the lift truck, ◁ 1 - OPERATING AND SAFETY INSTRUCTIONS: IF THE LIFT TRUCK IS NOT TO BE USED FOR A LONG TIME.

TOWING DEVICE

1 - CHASSIS-MOUNTED FRONT TOWING HOOK 2-53
2 - CLEVIS HITCH 2-53
3 - AUTOMATIC CLEVIS HITCH (OPTION) 2-53
4 - CLEVIS HITCH ON COUPLING LADDER (OPTION) 2-54
5 - AUTOMATIC CLEVIS HITCH ON COUPLING LADDER (OPTION) 2-54
6 - BALL HITCH ON COUPLING LADDER (OPTION) 2-55
7 - FIXED PIN ON COUPLING LADDER (OPTION) 2-55
8 - HYDRAULIC TOWING HOOK (OPTION) 2-56
9 - REAR ELECTRIC SOCKET 2-56
10 - HYDRAULIC TRAILER BRAKING (OPTION) 2-57
11 - PNEUMATIC TRAILER BRAKE (OPTION) 2-57

⚠ IMPORTANT ⚠

Do not tow a trailer or an attachment that is not in perfect working condition.
Using a trailer in poor condition may affect the lift truck's steering and braking, and hence the safety of the assembly.
If a third party helps in coupling or uncoupling the trailer, this person must be permanently visible to the driver and wait until the lift truck has stopped, the handbrake is on and the I.C. engine is switched off before performing the operation.

Located at the rear of the lift truck, this device is used to attach a trailer. Its capacity is limited for each lift truck by the Authorized Gross Vehicle Weight, tractive force and maximum vertical force on the coupling point. This information is given on the manufacturer's plate fixed to each lift truck (◁ IDENTIFICATION OF THE LIFT TRUCK).

- To use a trailer, see current regulations in your country (maximum running speed, braking, maximum weight of trailer, etc.).
- Verify the trailer's condition before using it (tire condition and pressures, electrical connection, hydraulic hose, brake system, etc.).

NOTE: Our tractor type-approved lift trucks are not compatible for use with trailers fitted with the ISO7638 socket.

1 - CHASSIS-MOUNTED FRONT TOWING HOOK

⚠ IMPORTANT ⚠

This pin is only intended for towing or winching the lift truck in the event of a breakdown.

◁ 3 - MAINTENANCE: OCCASIONAL OPERATION for towing or winching the lift truck.



2 - CLEVIS HITCH

⚠ IMPORTANT ⚠

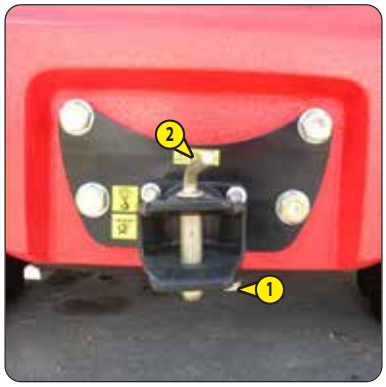
Be careful not to get your fingers caught or crushed during this operation.

Do not forget to put the cotter pin back in place.

When uncoupling, make sure that the trailer is supported independently.

COUPLING AND UNCOUPLING THE TRAILER

- To couple the trailer, position the lift truck as close as possible to the trailer ring.
- Apply the parking brake and switch off the engine.
- Remove the pin 1, lift the towing pin 2 and place or remove the trailer ring.



3 - AUTOMATIC CLEVIS HITCH (OPTION)

⚠ IMPORTANT ⚠

When uncoupling, make sure that the trailer is supported independently.

COUPLING THE TRAILER

- Remove the automatic towing pin using lever 1.
- Back up the lift truck so that the trailer ring slots into the automatic hook.

NOTE: The pin closes automatically when the trailer ring touches the back of the clevis. The pin can be lowered by hand using lever 1.

UNCOUPLING THE TRAILER

- Lift the pin using lever 1 to uncouple the trailer.



4 - CLEVIS HITCH ON COUPLING LADDER (OPTION)



⚠ IMPORTANT ⚠

Be careful not to get your fingers caught or crushed during this operation.
When uncoupling, make sure that the trailer is supported independently.

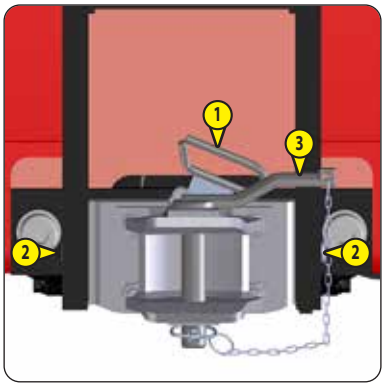
- Position the lift truck as close as possible to the trailer ring.
- Apply the parking brake and switch off the engine.

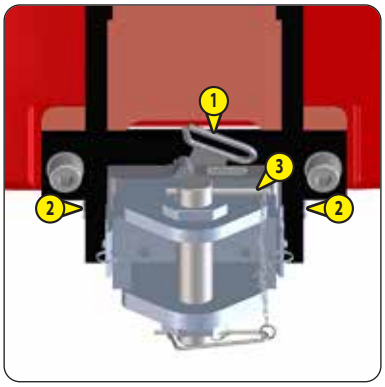
ADJUSTING THE CLEVIS HITCH

- Lift the handle 1 and pivot it upwards to release the pins 2 on either side of the ladder.
- Support the clevis and adjust it according to the height of the trailer ring.
- Pivot the handle 1 downwards to engage the 2 pins in the ladder and release the handle.

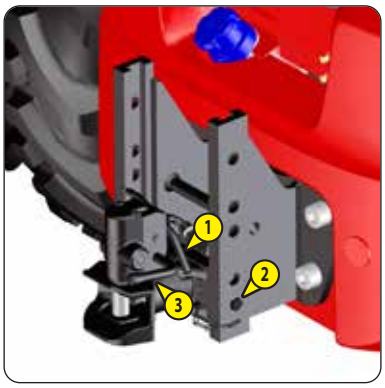
COUPLING AND UNCOUPLING THE TRAILER

- Remove the towing pin 3 and place or remove the trailer ring.
- Refit and lock towing pin 3 in position.





5 - AUTOMATIC CLEVIS HITCH ON COUPLING LADDER (OPTION)



⚠ IMPORTANT ⚠

Be careful not to get your fingers caught or crushed during this operation.
When uncoupling, make sure that the trailer is supported independently.

- Position the lift truck as close as possible to the trailer ring.

ADJUSTING THE CLEVIS HITCH

- Lift the handle 1 and pivot it upwards to release the pins 2 on either side of the ladder.
- Support the clevis and adjust it according to the height of the trailer ring.
- Pivot the handle 1 downwards to engage the 2 pins in the ladder and release the handle.

COUPLING THE TRAILER

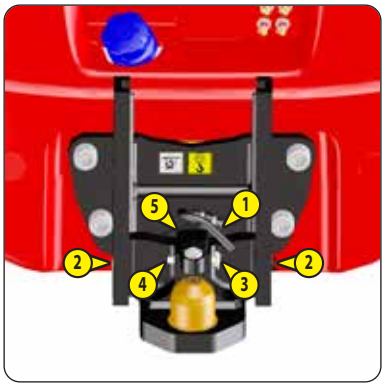
- Remove the automatic towing pin using lever 3.
- Back up the lift truck so that the trailer ring slots into the automatic hook.

NOTE: The pin closes automatically when the trailer ring touches the back of the clevis. The pin can be lowered by hand using lever 3.

UNCOUPLING THE TRAILER

- Lift the pin using lever 3 to uncouple the trailer.

6 - BALL HITCH ON COUPLING LADDER (OPTION)



⚠ IMPORTANT ⚠

Be careful not to get your fingers caught or crushed during this operation.
When uncoupling, make sure that the trailer is supported independently.

- Position the lift truck as close as possible to the trailer ring.

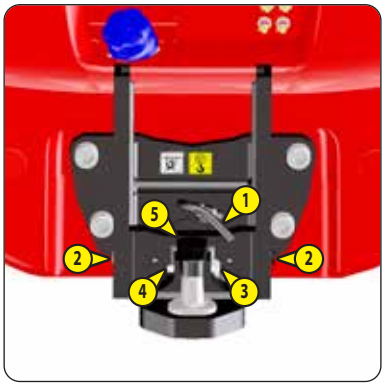
ADJUSTING THE CLEVIS HITCH

- Lift the handle 1 and pivot it upwards to release the pins 2 on either side of the ladder.
- Support the clevis and adjust it according to the height of the trailer ring.
- Pivot the handle 1 downwards to engage the 2 pins in the ladder and release the handle.

COUPLING AND UNCOUPLING THE TRAILER

- Remove the cotter pin 3 and the locking pin 4.
- Lift the hitch bolt 5.
- Place or remove the coupling head of the trailer on the ball hitch.
- Refit the hitch bolt 5, the locking pin 4 and the cotter pin 3.

7 - FIXED PIN ON COUPLING LADDER (OPTION)



⚠ IMPORTANT ⚠

Be careful not to get your fingers caught or crushed during this operation.
When uncoupling, make sure that the trailer is supported independently.

- Position the lift truck as close as possible to the trailer ring.

ADJUSTING THE CLEVIS HITCH

- Lift the handle 1 and pivot it upwards to release the pins 2 on either side of the ladder.
- Support the clevis and adjust it according to the height of the trailer ring.
- Pivot the handle 1 downwards to engage the 2 pins in the ladder and release the handle.

COUPLING AND UNCOUPLING THE TRAILER

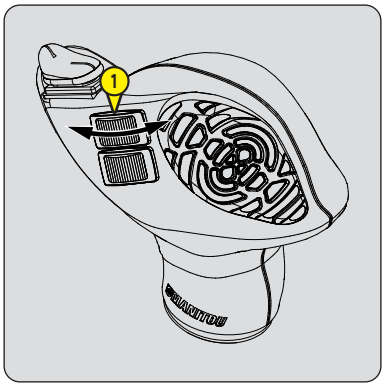
- Remove the cotter pin 3 and the locking pin 4.
- Lift the hitch bolt 5.
- Place or remove the coupling head of the trailer on the fixed pin.
- Refit the hitch bolt 5, the locking pin 4 and the cotter pin 3.

8 - HYDRAULIC TOWING HOOK (OPTION)

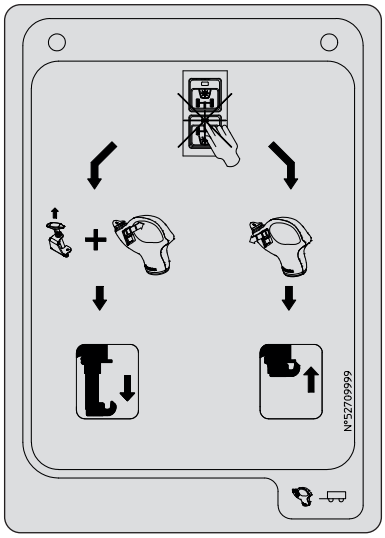
⚠ IMPORTANT ⚠

Never use the tow hook to raise the rear of the lift truck (when changing the rear wheel for example).
When uncoupling, make sure that the trailer is supported independently.

- Select the rear attachment hydraulic line .
- Push switch 1 forwards to release the locking pin securing the hook 2.
- Pull on the knob 3 and hold in position.
- Push switch 1 backwards to lower the towing hook.
- Release knob 3.
- Couple or uncouple the trailer.
- Push switch 1 forwards to fully raise the towing hook.
- Next, push switch 1 backwards to bring the locking pin into contact with the hook 2.









9 - REAR ELECTRIC SOCKET

- Connect the male plug to the female socket 1 on the lift truck and make sure the lights of the trailer or the light bar are working properly.



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10 - HYDRAULIC TRAILER BRAKING (OPTION)



TRAILER BRAKE WITH A DOUBLE "SL" AND "CL" LINE

- Connect the brake hose to the lift truck "CL" line 1.
- Connect the brake release hose to the lift truck "SL" line 2.
- Make sure the trailer brakes are working properly and test the effects of braking before taking the trailer onto the public highway.

DOUBLE LINE TRAILER BRAKE TEST

- Press button B to display the “PREFERENCES” menu
- Turn knob A to navigate through the menus and sub-menus.

TRANSMISSION	>	TRAILER BRAKE TEST

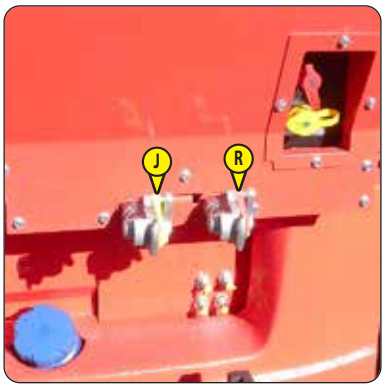


11 - PNEUMATIC TRAILER BRAKE (OPTION)



The pressure gage 1 indicates the working pressure of the pneumatic circuit (8 bar).

- Connect the brake hose to the lift truck "J" line.
- Connect the brake release hose to the lift truck "R" line.
- Make sure the trailer brakes are working properly and test the effects of braking before taking the trailer onto the public highway.



1 - COMPACT ROOF GRILLE 2-59
2 - COMPACT ROTATING BEACON LIGHT 2-59
3 - WINDSHIELD GRILLE 2-59
4 - CAB FIRE EXTINGUISHER 2-59
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1 - COMPACT ROOF GRILLE

2 - COMPACT ROTATING BEACON LIGHT



3 - WINDSHIELD GRILLE

DESCRIPTION

The windshield grille provides additional protection for the operator from any external elements spattered on the windshield.
This grille must be removable from inside the cab to enable an emergency exit.

EMERGENCY EXIT

- After breaking the windshield with the emergency hammer, push (with force) on the windshield grid at A to remove it.



4 - CAB FIRE EXTINGUISHER

⚠ IMPORTANT ⚠

Regularly check your fire extinguisher.
After use, replace the fire extinguisher with a new one of the same type.



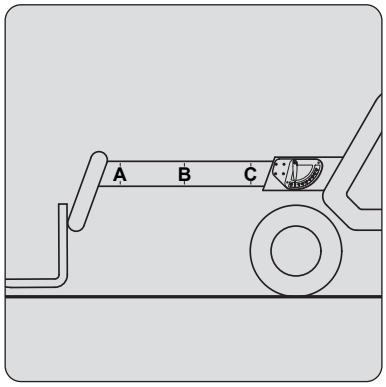
5 - ANGULAR SECTOR ON BOOM

The angular sector displays the boom angle, and thus improves the reading of the load charts.



6 - MARKS ON BOOM

The marking indicates the outreach of the boom and therefore improves reading of the load charts.



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7 - AUTOMATIC CENTRAL GREASING



⚠ IMPORTANT ⚠

Before using the lift truck, check the condition of the greasing unit and check the grease level, topping it up, if necessary (◁ 3 - MAINTENANCE: 10H - DAILY MAINTENANCE OR EVERY 10 HOURS OF SERVICE).

Never use the lift truck with the grease tank empty.

When washing the lift truck with a high-pressure cleaner, the greasing unit must be protected from splashes.

This option ensures automatic lubrication of all of the lift truck's greasing points from start-up.

After turning on the ignition, check the automatic greasing control indicator light 1:

- Light on for 3s = system OK.
- Light flashing every 0.5s = greasing cycle in progress.
- Light flashing every 1s = grease level low (error code 8C-7F07E.11).
- Light on continuous = grease tank empty or system error.



In the event of a system error, perform a test cycle by pressing test button 2:

- Press once and the light flashes once every 2 seconds and initiates the test on output 1.
- Press twice and the light flashes twice every 2 seconds and launches the test on output 2.

NOTE: After an interruption, when the system is powered back on, the greasing cycle continues where it stopped previously.

If the system error persists, contact your dealer as soon as possible.

8 - 3 POLE 12V CONNECTOR



For 12 V appliance and max. amperage 16A.

9 - KEYPAD "EasyMANAGER"



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" button.
- 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.

NOTE: 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.

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10 - ELECTRICAL ADJUSTMENT OF MAIN RIGHT REAR-VIEW MIRROR



11 - REAR AND SIDE CAMERAS



To activate a camera:

- Turn knob A to select the rear or side camera .
- The screen displays the view of the selected camera.

The rear camera (SafeView) can be configured in automatic mode when in reverse gear.

- Press button B to display the "PREFERENCES" menu.
- Turn knob A to select the menu.

SYSTEM	>	CAMERA (OPTION)

- Press knob A to confirm.
- Activate the automatic configuration using knob A.
- Press knob A to confirm.

12 - BOOM HEAD CAMERA

To activate the camera:

- Turn knob A to select the boom head camera .
- The screen displays the view of the selected camera.

The boom head camera (HighView) can be configured in automatic mode as soon as the boom angle reaches 25°. When the boom goes back down, the previous screen reappears.

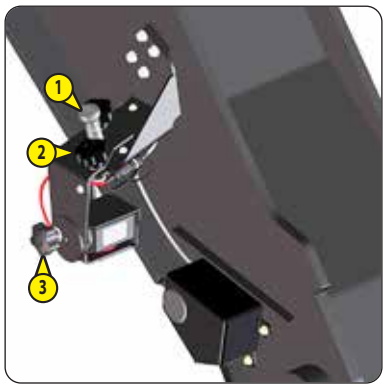
- Press button B to display the "PREFERENCES" menu.
- Turn knob A to select the menu.

SYSTEM	>	CAMERA (OPTION)

- Press knob A to confirm.
- Activate the automatic configuration using knob A.
- Press knob A to confirm.

NOTE: "Manual" selection of the boom head camera from the information screen activates it permanently. The boom head camera (HighView) can be combined with the rear and side cameras option (SafeView).

BOOM HEAD CAMERA INSTALLATION



- Lower the boom as far as it will go and turn off the lift truck ignition.
- Position the indexing finger 1 and tighten the thumbwheels 2.
- Point the camera using the thumbwheel 3.

13 - BOOM ELECTRICAL PREDISPOSITION



Enables an electrical function to be used at the top of the boom foot or on the boom head.

OPERATION

- Press the switch. The indicator will come on when the function is enabled.

14 - FUEL PREHEATER



The paraffin particles found naturally in diesel crystallize at low temperatures. The fuel preheater limits their accumulation in the filter.

15 - PREHEAT ROD



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

ENVIRONMENTAL CONDITIONS FOR USE:

- Maximum ambient temperature for using preheating: + 25 °C

CONDITIONS FOR CONNECTION AND USE OF PREHEATING:

- The preheating 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.

⚠ IMPORTANT ⚠

Make sure that the electrical extension is still correctly stored in its place in the document holder net.

16 - ENGINE SPEED REGULATOR



⚠ IMPORTANT ⚠

The engine speed regulator cannot under any circumstances be used while driving on the road.

USING THE REGULATOR

- Control the engine speed with lever 1.

SPEED MEMORIZATION

- Control the engine speed with lever 1 or the accelerator pedal.
- Hold down the button to memorize the engine speed.
- Press the button again or operate lever 1 to return to idle speed.

ACTIVATING THE MEMORIZED ENGINE SPEED

- Press the button to activate the memorized engine speed.
- Confirm by pressing the button a second time or pressing knob A.
- Press the button again or operate lever 1 to return to idle speed.

17 - SPEED LIMITER



⚠ IMPORTANT ⚠

BE CAREFUL when using the speed limiter while driving.

As soon as appears on the information screen, selecting the speed with knob A will act directly on the lift truck and may cause it to decelerate sharply.
Always reduce speed before use.

SPEED LIMITER USE AND MEMORIZATION

- Turn the navigation knob A to select driving mode .
- Press knob A or hold down the button, will appear on the information screen.
- Turn the knob to select the speed.
- Press knob A to confirm and memorize.
- The memorized speed will be displayed on the information screen .

ACTIVATING THE MEMORIZED SPEED

- Press the button to activate. The indicator lamp will show it is in use.
- The speed limiter recall on the information screen also indicates that it is in use.
- Press the button again to deactivate.

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18 - "ECO STOP" ENGINE



This function can take charge of engine shutdown to reduce consumption. It can be used if all of the following conditions are met within a timeframe defined by the operator.

- Engine on.
- Engine speed less than 1,000 rpm.
- No driver presence.
- No manual override in progress.
- No "stationary lift truck" exhaust regeneration".
- Parking brake applied.
- Engine coolant temperature higher than 40 °C.

TIME DELAY ADJUSTMENT

- Press button B to display the "PREFERENCES" menu
- Turn knob A to navigate through the menus and sub-menus.

ENGINE SPECIFICATION	>	ECO STOP

- Select the time delay (between 1 and 20 minutes) and press knob A to confirm.

OPERATION

- Press the ECO STOP button to activate. The indicator light will come on, showing that it is in use.

⚠ IMPORTANT ⚠

The "ECO STOP" function does not under any circumstances replace lift truck shutdown. You must shut down the lift truck at the end of the job or the end of the day (◁ 1 - OPERATING AND SAFETY INSTRUCTIONS: OPERATOR INSTRUCTIONS: OPERATING INSTRUCTIONS WITH AND WITHOUT LOAD: G - STOPPING THE LIFT TRUCK).

19 - EXTERIOR DRAIN-BACK



Enables connection of a hydraulic attachment for which drain-back is required.

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20 - ATTACHMENT EASY HYDRAULIC CONNECTION

For easy connection and disconnection of hydraulic attachments.



PUSH BUTTON OPERATION

- Switch on lift truck ignition.
- Press for two seconds on pushbutton 1 to release the attachment circuit hydraulic pressure.
- Connect or disconnect the quick couplers of the hydraulic attachment (◁ 4 - OPTIONAL ADAPTABLE ATTACHMENTS FOR THE RANGE: PICKING UP THE ATTACHMENTS).

NAVIGATION BUTTON OPERATION

- Switch on lift truck ignition.
- Press button B to display the "PREFERENCES" menu
- Turn knob A to navigate through the menus and sub-menus.

HYDRAULICS	>	EASY CONNECT SYSTEM

- Press knob A to confirm.
- Connect or disconnect the quick couplers of the hydraulic attachment (◁ 4 - OPTIONAL ADAPTABLE ATTACHMENTS FOR THE RANGE: PICKING UP THE ATTACHMENTS).



21 - ATTACHMENT HYDRAULIC LOCKING

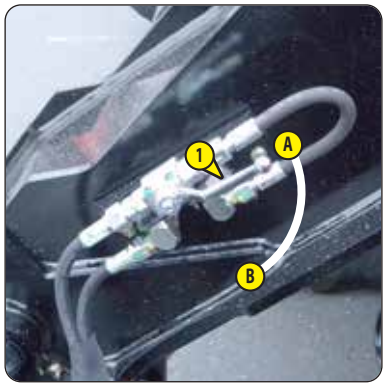
Enables the attachment to be locked onto the carriage and a hydraulic attachment to be used by the same circuit.

⚠ IMPORTANT ⚠

Once the attachment is locked, return valve 1 to position B to prevent accidental release of the attachment.

OR

Press the button  *to shut off the attachment circuit hydraulic movements. The indicator lamp indicates it is in use.*

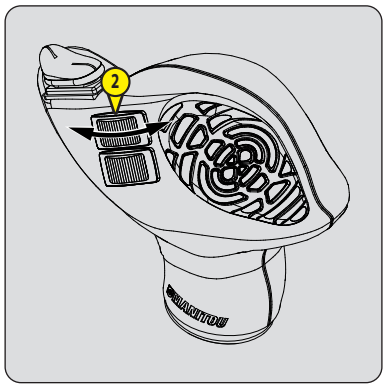


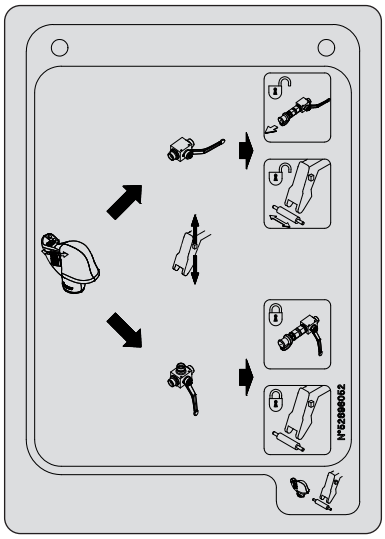
ATTACHMENT LOCKING CONTROL

- Set valve 1 to position A.
- Push switch 2 forward to lock the attachment and backward to release it.
- Set valve 1 to position B.

HYDRAULIC ATTACHMENT CONTROL

- Set valve 1 to position B.
- Push switch 2 forward or backward.

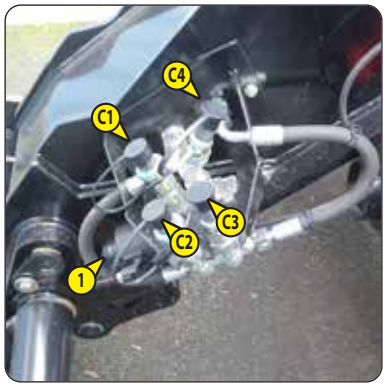




22 - BOOM HEAD SOLENOID VALVE

Enables use of two hydraulic functions on the attachment circuit.

NOTE: For ease of connection of the quick-release couplers, decompress the hydraulic circuit by pressing button 1 on the electrovalve.

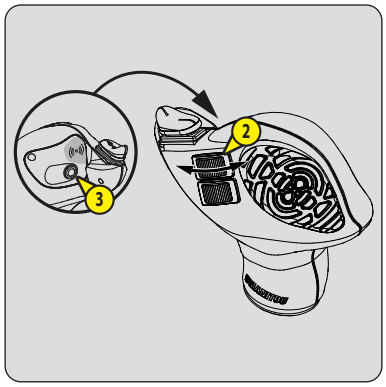


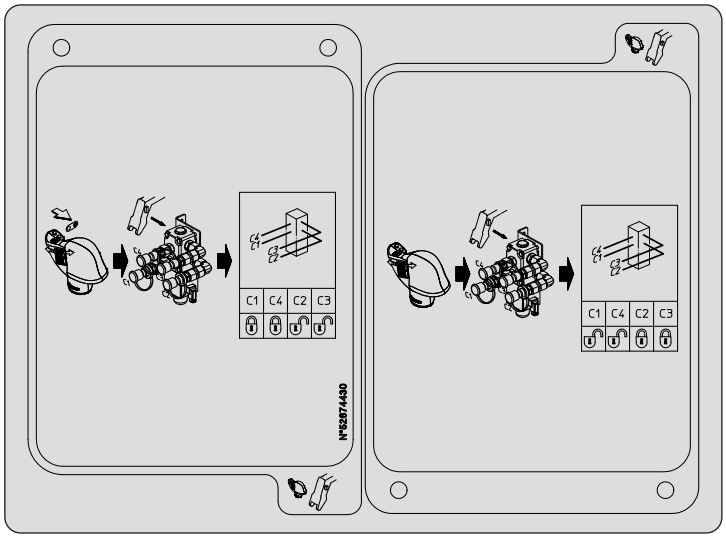
ATTACHMENT LINE CONTROL "C1-C4"

- Turn off the switch (indicator lamp off).
- Push switch 2 forward or backward to control the attachment line "C1-C4".

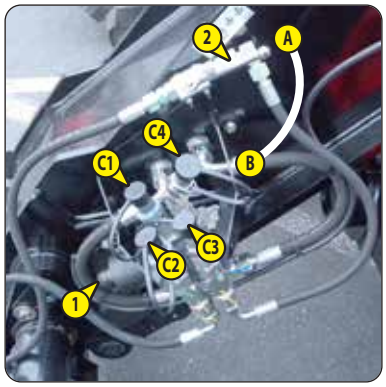
ATTACHMENT LINE CONTROL "C1-C4 / C2-C3"

- Turn on the switch (indicator lamp on).
- Push switch 2 forward or backward to control the attachment line "C1-C4".
- Hold down button 3 and push switch 2 forward or backward to control the attachment line "C2-C3".





23 - BOOM HEAD ELECTROVALVE + HYDRAULIC ATTACHMENT LOCKING



The addition of these two options on the attachment line allows two hydraulic functions to be used and locks the attachment onto the carriage.

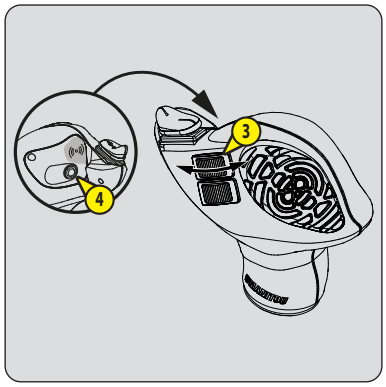
NOTE: For ease of connection of the quick-release couplers, decompress the hydraulic circuit by pressing button 1 on the electrovalve.

⚠ IMPORTANT ⚠

Once the attachment is locked, return valve 2 to position B to prevent accidental release of the attachment.

ATTACHMENT LINE CONTROL "C1-C4"

- Turn off the switch (indicator lamp off).
- Push switch 3 forward or backward to control the attachment line "C1-C4".

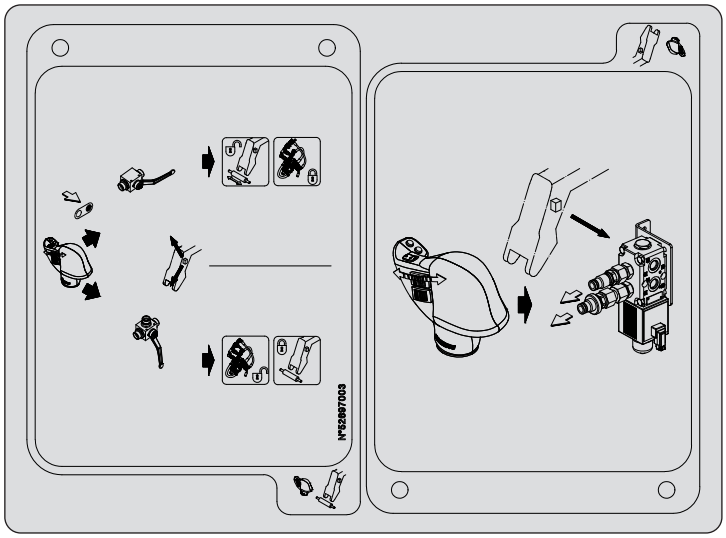


ATTACHMENT LINE CONTROL "C1-C4 / C2-C3" + HYDRAULIC ATTACHMENT LOCKING

- Turn on the switch (indicator lamp on).
- Set valve 2 to position B.
- Push switch 3 forward or backward to control the attachment line "C1-C4".
- Hold down button 4 and push switch 3 forward or backward to control the attachment line "C2-C3".

LOCKING AN ATTACHMENT

- Turn on the switch (indicator lamp on).
- Set valve 2 to position A.
- Hold down button 4 and push button 3 forward to lock the attachment and backward to release it.
- Set valve 2 to position B.



24 - ATTACHMENT CIRCUIT FLOW RATE LIMITER



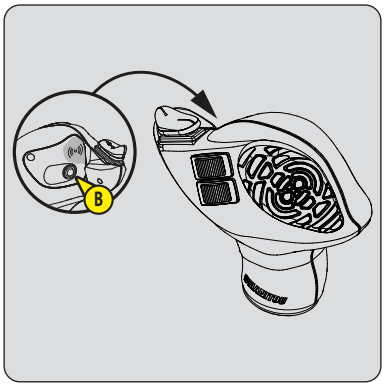
FLOW RATE MEMORIZATION

- Hold down the button, will appear on the information screen.

NOTE: Depending on the OPTIONS, you can have two attachment circuits
. Press button B to select the second circuit.

- Turn knob A to limit the flow rate to a value of your choice.
- Press knob A to confirm and proceed to the adjustment of the other line.
- Press knob A again to confirm and exit the setting menu.

ACTIVATING THE MEMORIZED FLOW RATE



- Press the button to activate. The indicator light will come on, showing that it is in use.
- Press the button again to deactivate.

25 - ATTACHMENT CIRCUIT MANUAL OVERRIDE

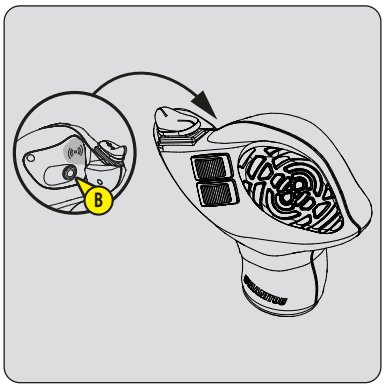


⚠ IMPORTANT ⚠

This OPTION should only be used with an attachment that requires a continuous hydraulic movement such as: sweeper, feed wagon, mixer, sprayer, etc. It is strictly prohibited in handling and for all other attachments (winch, crane, crane jib with winch, hook, etc.).

USING AND STORING MANUAL OVERRIDE

- Turn the navigation knob A to select work mode .
- Press knob A or press and hold the ; will appear on the information screen.



NOTE: Depending on the OPTIONS, you can have two attachment circuits
. Press button B to select the second circuit.

- Turn the knob A to select the line.
- Confirm by pressing knob A.
- Turn knob A to set the desired flow rate.
- Press knob A to confirm and save.

ACTIVATING THE STORED MANUAL OVERRIDE

- Press the button to activate manual override.
- Confirm by pressing the button a second time or pressing knob A.
- Press the button again to deactivate.

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26 - BOOM SUSPENSION

Boom suspension absorbs the shocks to the lift truck on uneven ground (ex. handling straw in a field).

⚠ IMPORTANT ⚠

When you make a hydraulic downward or tilting movement, boom suspension is temporarily disabled and the button's indicator light Auto goes off.
Boom suspension is active from 5 km/h.

- Press the Auto button to activate. The indicator light will come on, showing that it is in use.
- Press the button again to deactivate.
- When the engine is off, boom suspension is automatically deactivated.

NOTE: Forced boom suspension allows it to be used at less than 5 km/h.

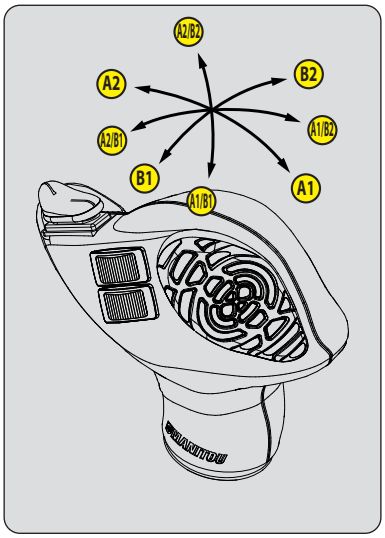
27 - COMBINED HYDRAULIC MOVEMENTS

This function allows several hydraulic movements to be combined.

- A1 - LIFTING
- A2 - LOWERING
- B1 - CROWD
- B2 - DUMP

COMBINED HYDRAULIC MOVEMENTS

- A1/B1 - LIFTING + CROWD
- A2/B1 - LOWERING + CROWD
- A1/B2 - LIFTING + DUMP
- A2/B2 - LOWERING + DUMP



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28 - SEMI-AUTOMATIC WHEEL ALIGNMENT



⚠ IMPORTANT ⚠

Check the alignment of the front and rear wheels each time the lift truck is started.
Regularly check the alignment of the wheels when using the lift truck.
The wheels must be aligned and the lift truck must be in front steering wheels mode when used on public roads.
A green light illuminates on the dashboard when the wheels are aligned.
It is not possible to change the steering mode above 11 km/h.
Contact your dealer if you have any questions.

CHANGING THE STEERING MODE

Front steering wheels (road mode).

Front and rear steering wheels in opposite directions (short steering).

Front and rear steering drive wheels in the same direction (crab steering).

Front steering wheels and locking of the rear wheel steering angle.

- Align the rear and front wheels.
- Select the desired steering mode, a flashing indicator lamp will confirm the selection.
- Turn the wheels as instructed on the information screen. The indicator lamp will remain steadily lit while the steering mode is enabled.

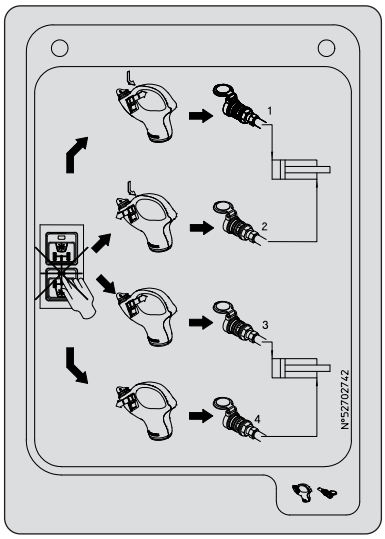
29 - DOUBLE-ACTING REAR HYDRAULIC PREDISPOSITION

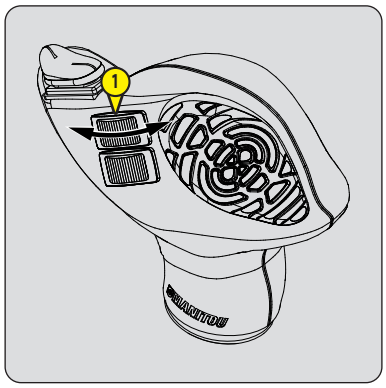
Enables the use of a hydraulic attachment at the rear of the lift truck (e.g. a trailer with hydraulic tipping).



DOUBLE-ACTING REAR HYDRAULIC CONTROL "L3-L4"

- Select the rear attachment hydraulic line .
- Push switch 1 forward or backward.





30 - TWO DOUBLE-ACTING REAR HYDRAULIC CONTROL PREDISPOSITIONS

Enables two hydraulic circuits at the rear of the lift truck to be selected for use.

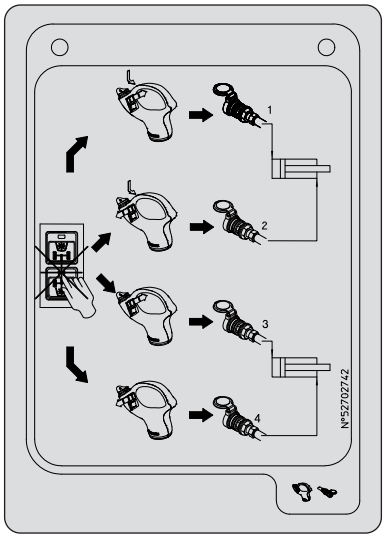


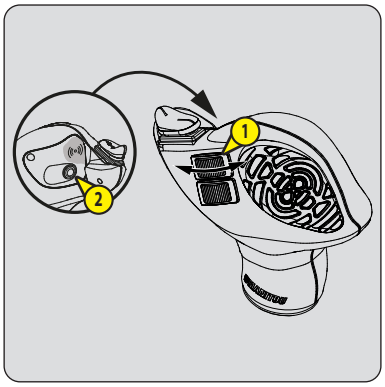
DOUBLE-ACTING REAR HYDRAULIC CONTROL "L3-L4"

- Select the rear attachment hydraulic line .
- Push switch 1 forward or backward.

DOUBLE-ACTING REAR HYDRAULIC CONTROL "L1-L2"

- Select the rear attachment hydraulic line .
- Hold down button 2 and operate button 1 forward or backward.





31 - HYDRAULIC TRAILER HOOK + DOUBLE-ACTING REAR HYDRAULIC CONTROL PREDISPOSITION

Enables use of the towing hook (◁ TOWING DEVICE) or a hydraulic attachment at the rear of the lift truck.

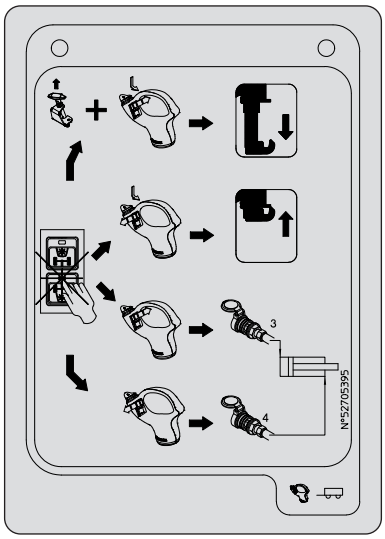


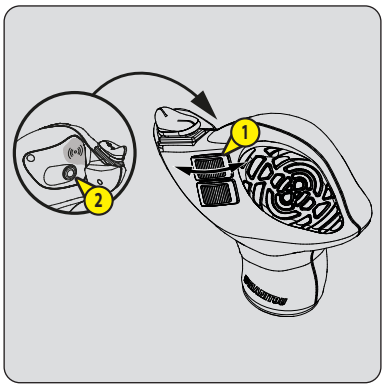
HYDRAULIC TOWING HOOK "L1-L2"

◁ TOWING PIN AND HOOK

DOUBLE-ACTING REAR HYDRAULIC CONTROL "L3-L4"

- Select the rear attachment hydraulic line .
- Hold down button 2 and operate button 1 forward or backward.





3 - MAINTENANCE

3 - MAINTENANCE

ORIGINAL MANITOU SPARE PARTS AND EQUIPMENT 3-3

FORKLIFT TRUCK MAINTENANCE 3-4

DAILY AND WEEKLY MAINTENANCE 3-4

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PERIODIC MAINTENANCE 3-6

OCCASIONAL MAINTENANCE AND OPERATION 3-8

FILTER CARTRIDGES AND BELTS 3-9

LUBRICANTS AND FUEL 3-10

➲ 10H - DAILY MAINTENANCE OR EVERY 10 HOURS OF SERVICE 3-12

➲ 50H - WEEKLY MAINTENANCE OR EVERY 50 HOURS OF SERVICE 3-14

➲ ❶ 500H - PERIODIC MAINTENANCE - EVERY 500 HOURS OF SERVICE OR 1 YEAR 3-18

➲ ❷ 1000H - PERIODIC MAINTENANCE - EVERY 1000 HOURS OF SERVICE OR 2 YEARS 3-24

➲ ❸ 2000H - PERIODIC MAINTENANCE - EVERY 2000 HOURS OF SERVICE OR 4 YEARS 3-30

➲ OCCASIONAL MAINTENANCE 3-34

➲ OCCASIONAL OPERATION 3-37

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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 - to incur 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 due to experience 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

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 MAINTENANCE OR EVERY 10 HOURS OF SERVICE

- CHECK — Lift truck environment 3-14
- CHECK — Engine oil level 3-14
- CHECK — Coolant level 3-14
- CHECK — Fuel pre-filter 3-15
- CHECK — Greasing unit level (OPTION) 3-15

50H - WEEKLY MAINTENANCE OR EVERY 50 HOURS OF SERVICE

- CHECK — Reduction gearbox seal 3-16
- CHECK — Tire pressure 3-16
- CHECK — Wheel nut tightening 3-16
- CHECK — Front axle differential seal 3-16
- CHECK — Rear axle differential seal 3-16
- CHECK — Front wheel reducer seals 3-16
- CHECK — Rear wheel reducer seals 3-16
- CHECK — Boom pad slide pathways 3-17
- CHECK — Hydraulic fluid level 3-17
- CHECK — Windshield washer fluid level 3-17
- CLEAN — Radiator cores 3-18
- CLEAN — Dry air filter cartridge 3-18
- CLEAN — Condenser harness (Air conditioning OPTION) 3-18
- LUBRICATE — General lubrication 3-19

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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

- CHECK — Reduction gearbox seal 3-16
- CHECK — Tire pressure 3-16
- CHECK — Wheel nut tightening 3-16
- CHECK — Front axle differential seal 3-16
- CHECK — Rear axle differential seal 3-16
- CHECK — Front wheel reducer seals 3-16
- CHECK — Rear wheel reducer seals 3-16
- CHECK — Boom pad slide pathways 3-17
- CHECK — Hydraulic fluid level 3-17
- CHECK — Windshield washer fluid level 3-17
- CLEAN — Radiator cores 3-18
- CLEAN — Dry air filter cartridge 3-18
- CLEAN — Condenser harness (Air conditioning OPTION) 3-18
- LUBRICATE — General lubrication 3-19
- CHECK — Countdown before "stationary lift truck" exhaust regeneration 3-20
- CHECK — Parking brake 3-20
- CHECK — Fork wear * 3-21

**** Consult your dealer.***

- CHECK — Seat belt 3-26
- CHECK — Engine silent blocks * 3-31
- CHECK — Reduction gearbox silent blocks* 3-31
- CHECK — Brake system pressure * 3-31
- CHECK — Boom pad wear * 3-31
- CHECK — Condition of wiring harnesses and cables * 3-31
- CHECK — Lights and signals * 3-31
- CHECK — Warning indicators * 3-31
- CHECK — Condition of the rear view mirrors * 3-31
- CHECK — Cab structure * 3-31
- CHECK — Chassis structure * 3-31
- CHECK — Attachment mounting system * 3-31
- CHECK — Condition of attachments * 3-31

**** Consult your dealer.***

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PERIODIC MAINTENANCE

MAINTENANCE SCHEDULE

	OR					
SCHEDULE ➲	FIRST 6 MONTHS	FIRST 500 HOURS	500 H or 1 YEAR	1000 H or 2 YEARS	1500 H or 3 YEARS	2000 H or 4 YEARS
PERIODIC 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

- CHECK — Countdown before "stationary lift truck" exhaust regeneration 3-20
- CHECK — Parking brake 3-20
- CHECK — Hydraulic oil 3-21
- CHECK — Fork wear * 3-21

** Consult your dealer.*

- REPLACE — Engine oil 3-22
- REPLACE — Engine oil filter 3-22
- REPLACE — Hydrostatic transmission oil filter cartridge 3-22
- REPLACE — Front axle differential oil 3-23
- REPLACE — Hydraulic return oil filter cartridge 3-23
- REPLACE — Hydraulic oil tank plug 3-23
- REPLACE — Cab ventilation filters 3-24
- REPLACE — Filter coupling (OPTIONAL Automatic central greasing) 3-24

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

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

- CHECK — Seat belt 3-26
- CLEAN — Fuel tank 3-26
  - REPLACE — Fuel tank breather 3-26
- REPLACE — Coolant 3-27
- REPLACE — Dry air filter cartridge 3-27
- REPLACE — Fuel pre-filter 3-28
- REPLACE — Fuel filter 3-28
- REPLACE — "DEF" (Diesel Exhaust Fluid) supply pump filter 3-29
- REPLACE — Tank filling strainer "DEF" (diesel exhaust fluid) 3-29
- REPLACE — Reduction gearbox oil 3-30
- REPLACE — Rear axle differential oil 3-30
- REPLACE — Front wheel reducer oil 3-30
- REPLACE — Rear wheel reducer oil 3-30
- CHECK — Engine silent blocks * 3-31
- CHECK — Reduction gearbox silent blocks* 3-31
- CHECK — Brake system pressure * 3-31
- CHECK — Boom pad wear * 3-31
- CHECK — Condition of wiring harnesses and cables * 3-31
- CHECK — Lights and signals * 3-31
- CHECK — Warning indicators * 3-31
- CHECK — Condition of the rear view mirrors * 3-31
- CHECK — Cab structure * 3-31
- CHECK — Chassis structure * 3-31
- CHECK — Attachment mounting system * 3-31
- CHECK — Condition of attachments * 3-31

**** Consult your dealer.***

3 2000H - PERIODIC MAINTENANCE - EVERY 2000 HOURS OF SERVICE OR 4 YEARS

ALSO PERFORM THE 500-HOUR AND 1000-HOUR PERIODIC MAINTENANCE PROCEDURES.

- CHECK — Wheel nut tightening torque 3-32
- CLEAN — Air conditioning (OPTION) * 3-32

**** Consult your dealer.***

- REPLACE — Dry air filter safety cartridge 3-32
- REPLACE — Alternator belt 3-33
- REPLACE — Hydraulic fluid 3-34
  - CLEAN — Hydraulic oil tank suction strainer 3-34
  - REPLACE — Ventilation reversal filter 3-34
- CHECK — Radiator * 3-35
- CHECK — Transmission pressures * 3-35
- CHECK — Steering * 3-35
- CHECK — Steering swivel joints * 3-35
- CHECK — Condition of boom assembly * 3-35
- CHECK — Bearings and bushings of the boom * 3-35
- CHECK — Condition of hoses and flexible pipes * 3-35
- CHECK — Condition of cylinders (leakage, rods) * 3-35
- CHECK — Hydraulic circuit pressures * 3-35
- CHECK — Chassis bearings and bushings* 3-35
- REPLACE — Compressor belt (Air Conditioning OPTION) * 3-35

**** Consult your dealer.***

OCCASIONAL MAINTENANCE AND OPERATION

OCCASIONAL MAINTENANCE

- CLEAN — Lift truck 3-36
- CLEAN — "Stationary lift truck" exhaust regeneration 3-36
- REPLACE — Wheels 3-37
- REPLACE — Battery 3-38
- ADJUST — Front headlights 3-38

OCCASIONAL OPERATION

- TOW OR WINCH — Lift truck 3-40
- SLING — Lift truck 3-41
- TRANSPORT — Lift truck 3-42

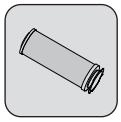
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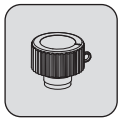
FILTER CARTRIDGES AND BELTS

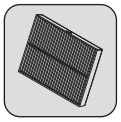
➲ ❶ 500H - PERIODIC MAINTENANCE - EVERY 500 HOURS OF SERVICE OR 1 YEAR


ENGINE OIL FILTER


HYDROSTATIC TRANSMISSION OIL FILTER CARTRIDGE


HYDRAULIC RETURN OIL FILTER CARTRIDGE


HYDRAULIC OIL TANK PLUG


EXTERIOR CAB VENTILATION FILTER


INTERIOR CAB VENTILATION FILTER

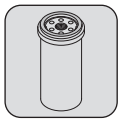

FILTER COUPLING
(AUTOMATIC CENTRAL GREASING OPTION)

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

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


DRY AIR FILTER CARTRIDGE


FUEL PRE-FILTER


FUEL FILTER

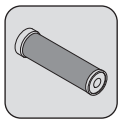

FUEL TANK BREATHER


"DEF"(Diesel Exhaust Fluid) FEED PUMP FILTER


TANK FILLING STRAINER "DEF" (diesel exhaust fluid)

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

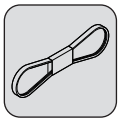
ALSO ADD FILTER ELEMENTS FOR PERIODIC MAINTENANCE AT 500 HOURS AND 1000 HOURS OF SERVICE.


SAFETY DRY AIR FILTER CARTRIDGE

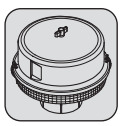

FAN REVERSAL


ALTERNATOR BELT


ALTERNATOR BELT
(PNEUMATIC TRAILER BRAKE OPTION)


COMPRESSOR BELT (AIR CONDITIONING OPTION)

➲ OCCASIONAL MAINTENANCE


SELF-CLEANING PRE-FILTER


SUCTION STRAINER FOR HYDRAULIC FLUID TANK

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⚠ 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.

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

(**) SPECIFICATION "DEF" (Diesel Exhaust Fluid)

- Aqueous urea solution at 32.5% (ISO22241)
- Solidification at 12.2 °F (-11 °C) and 10% expansion
- Non-flammable product
- Thermal degradation (>140 °F >60 °C)
- Storage between 23 °F and 86 °F (-5 °C and 30 °C)

⚠ IMPORTANT ⚠

Corrosive to metals, requires wearing personal protection (gloves and goggles).

RECOMMENDATION

ENGINE

PARTS TO BE LUBRICATED	CAPACITY	RECOMMENDATION
ENGINE	9.5 QI US (9 ℓ)	0W30 / 0W40 / 5W30 / 5W40 / 10W30 / MANITOU EVOLOGY OIL 10W40 API CJ4 / 15W40 / 20W50
COOLING CIRCUIT	14.48 QI US (13,7 ℓ)	COOLANT -31°F (-35 °C)
FUEL TANK ADDITIONAL FUEL TANK (OPTION)	20.6 GI US (78 ℓ) 11.1 GI US (42 ℓ)	GNR HP DIESEL *
TANK "DEF" (diesel exhaust fluid)	13.74 QI US (13 ℓ)	DEF **

-40 °F -22 -4 +14 +32 +50 +68 +86 +104 +122 °F
-40 °C -30 -20 -10 0 +10 +20 +30 +40 +50 °C

TRANSMISSION

DESCRIPTION	CAPACITY	RECOMMENDATION
REDUCTION GEARBOX	1.90 QI US (1,8 ℓ)	MANITOU SAE80W90 MECHANICAL TRANSMISSION OIL

-40 °F -22 -4 +14 +32 +50 +68 +86 +104 +122 °F
-40 °C -30 -20 -10 0 +10 +20 +30 +40 +50 °C

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FRONT AXLE

PARTS TO BE LUBRICATED	CAPACITY	RECOMMENDATION
FRONT AXLE DIFFERENTIAL	7,71 QI US (7,3 ℓ)	SPECIAL MANITOU OIL FOR IMMERSED BRAKES
		-40 °F -22 -4 +14 +32 +50 +68 +86 +104 +122 °F
		-40 °C -30 -20 -10 0 +10 +20 +30 +40 +50 °C
FRONT WHEEL REDUCING GEAR	2 x 0.8 QI US (2 x 0,8 ℓ)	MANITOU SAE80W90 MECHANICAL TRANSMISSION OIL
		-40 °F -22 -4 +14 +32 +50 +68 +86 +104 +122 °F
		-40 °C -30 -20 -10 0 +10 +20 +30 +40 +50 °C
FRONT WHEEL REDUCING GEAR PIVOTS		MANITOU BLACK MULTI-PURPOSE LUBRICANT

REAR AXLE

PARTS TO BE LUBRICATED	CAPACITY	RECOMMENDATION
REAR AXLE DIFFERENTIAL	7,71 QI US (7,3 ℓ)	SPECIAL MANITOU OIL FOR IMMERSED BRAKES
		-40 °F -22 -4 +14 +32 +50 +68 +86 +104 +122 °F
		-40 °C -30 -20 -10 0 +10 +20 +30 +40 +50 °C
REAR WHEEL REDUCING GEAR	2 x 0.8 QI US (2 x 0,8 ℓ)	MANITOU SAE80W90 MECHANICAL TRANSMISSION OIL
		-40 °F -22 -4 +14 +32 +50 +68 +86 +104 +122 °F
		-40 °C -30 -20 -10 0 +10 +20 +30 +40 +50 °C
REAR WHEEL REDUCING GEAR PIVOTS		MANITOU BLACK MULTI-PURPOSE LUBRICANT
		-40 °F -22 -4 +14 +32 +50 +68 +86 +104 +122 °F
		-40 °C -30 -20 -10 0 +10 +20 +30 +40 +50 °C
REAR AXLE OSCILLATION		MANITOU BLUE MULTI-PURPOSE LUBRICANT

BOOM

PARTS TO BE LUBRICATED	RECOMMENDATION
	-40 °F -22 -4 +14 +32 +50 +68 +86 +104 +122 °F
	-40 °C -30 -20 -10 0 +10 +20 +30 +40 +50 °C
BOOM PAD SLIDE PATHWAYS	MANITOU BLACK MULTI-PURPOSE LUBRICANT
	-40 °F -22 -4 +14 +32 +50 +68 +86 +104 +122 °F
	-40 °C -30 -20 -10 0 +10 +20 +30 +40 +50 °C
GREASING OF THE BOOM	MANITOU BLUE MULTI-PURPOSE LUBRICANT

HYDRAULICS

PARTS TO BE LUBRICATED	CAPACITY	RECOMMENDATION
		-40 °F -22 -4 +14 +32 +50 +68 +86 +104 +122 °F
		-40 °C -30 -20 -10 0 +10 +20 +30 +40 +50 °C
HYDRAULIC OIL TANK	21.4 GI US (81 ℓ)	ISO VG 100 ISO VG 68 MANITOU ISO VG 46 HYDRAULIC FLUID ISO VG 37 ISO VG 32

CAB

PARTS TO BE LUBRICATED	CAPACITY	RECOMMENDATION
		-40 °F -22 -4 +14 +32 +50 +68 +86 +104 +122 °F
		-40 °C -30 -20 -10 0 +10 +20 +30 +40 +50 °C
CAB DOOR		MANITOU BLUE MULTI-PURPOSE LUBRICANT
WINDSHIELD WASHER TANK	2.1 QI US (2 ℓ)	WINDSHIELD WASHER FLUID
COMPRESSOR (AIR CONDITIONING OPTION)	0.25 QI US (0.24 ℓ)	R12 MINERAL OIL

AUTOMATIC CENTRAL GREASING (OPTION)

DESCRIPTION	CAPACITY	RECOMMENDATION
		-40 °F -22 -4 +14 +32 +50 +68 +86 +104 +122 °F
		-40 °C -30 -20 -10 0 +10 +20 +30 +40 +50 °C
GREASING UNIT TANK	3.2 QI US (3 ℓ)	MANITOU BLUE MULTI-PURPOSE LUBRICANT

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

CHECK — Lift truck environment

Carry out a general inspection around the lift truck:

- Fluid leaks or stains on the ground.
- Additional objects on the lift truck and in the cab.
- Mounting and locking of the attachment.
- Mounting and adjustment of rear-view mirrors.
- Condition of the tires, to detect cuts, blisters, wear, etc.

⚠ IMPORTANT ⚠

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

CLEANLINESS OF THE FORKLIFT

- Cleanliness of lights and rear-view mirror.
- Excess dirt or build-up of material (e.g. straw, flour, sawdust, organic waste, etc.).
- On a daily basis, according to the conditions of use and the environment, the operator should ensure that the forklift truck is kept in a clean condition.
- Particular attention should be paid to accumulations of flammable materials (e.g. straw, flour, sawdust, organic waste, etc.) and fuel or lubricant leaks, as these significantly increase the risk of fire outbreaks.
- A regular inspection of the whole lift truck, especially the engine housing and the central part of the chassis, is necessary to see how frequently it needs to be cleaned to prevent these potential accumulations of material or leakages.

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 engine cover.
- Pull out dipstick 1.
- Clean the dipstick and check the correct level between the two notches.
- If necessary, add oil (◁ LUBRICANTS AND FUEL) through the filler hole 2.
- Visually check that there is no leakage or seepage.



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 system 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 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 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.

CHECK — Greasing unit level (OPTION)



Check the following points of the greasing system:

- The grease level in the greasing unit tank.
- The condition of the greasing unit (damage and leaks).
- No damage or leaks on the primary and secondary lines.
- There must be a collar of fresh grease on all of the greasing points.

The greasing unit is equipped with a filter coupling 1 on which a grease pump can be installed.

- Top up with the recommended grease as required (◁ LUBRICANTS AND FUEL).

FILLING PROCEDURE:

- Carefully clean the filter coupling 1 and your filling system.
- Connect your filling system to the filter coupling.
- Fill the tank to its maximum level as indicated on the tank.

⚠ IMPORTANT ⚠

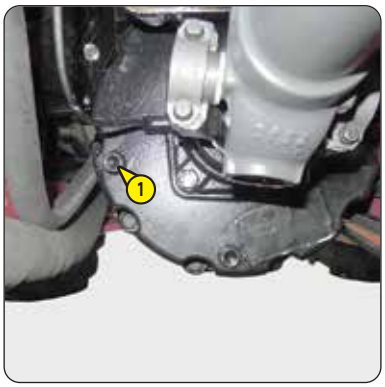
Never fill the tank higher than the maximum level indicated, as this may damage the system.
If filling is difficult, check the condition of the filter coupling and replace it.

- Remove your filling system.
- Clean the filter coupling before putting it back.

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

CHECK — Reduction gearbox 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:
  - Place level plug 1 in a horizontal position.
  - Remove the level plug; the oil should be flush with the edge of the opening.
  - If necessary, add oil (◅ LUBRICANTS AND FUEL) by the same hole.
  - Refit and tighten the level plug (tightening torque25 - 36 ft-lbs 34 - 49 N.m).

CHECK — Tire pressure

CHECK — Wheel nut tightening

⚠ IMPORTANT ⚠

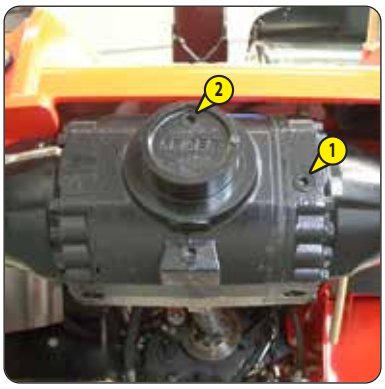
Check that the air hose is correctly connected to the tire valve before inflating and keep all persons at a distance during inflation. Inflate to the recommended tire pressures.

- Check the torque load of the wheel nuts. 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).

NOTE: An OPTIONAL wheel tool kit is available.

CHECK — Front axle differential seal

CHECK — Rear 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 filler hole 2.
  - Refit and tighten the level plug 1 (tightening torque25 - 36 ft-lbs 34 - 49 N.m).

CHECK — Front wheel reducer seals

CHECK — Rear wheel reducer seals



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) by the same hole.
  - Refit and tighten the level plug (tightening torque25 - 36 ft-lbs 34 - 49 N.m).

CHECK — Boom pad slide pathways



To preserve optimum operation, the pad slide pathways should be correctly lubricated:

⚠ IMPORTANT ⚠

MANDATORY GREASING OF THE BOOM AFTER:
Cleaning the boom, especially after using high pressure cleaner.
The forklift has been unused for a long period of time.

- Fully extend the boom.
- Check the condition of the surface of the pad slide pathways, surface run in (steel whitened) without traces of corrosion.
- If necessary lubricate the pad slide pathways (◅ LUBRICANTS AND FUEL).
- Telescope the boom several times in order to spread the coat of grease evenly.
- Remove the surplus of grease.

⚠ IMPORTANT ⚠

If the lift truck is used in an abrasive environment (dust, sand, coal) use lubricating varnish (MANITOU Part No.: 483536). Consult your dealer.

CHECK — Hydraulic fluid level



Place the lift truck on level ground with the engine stopped, and the boom retracted and lowered as far as possible.

⚠ IMPORTANT ⚠

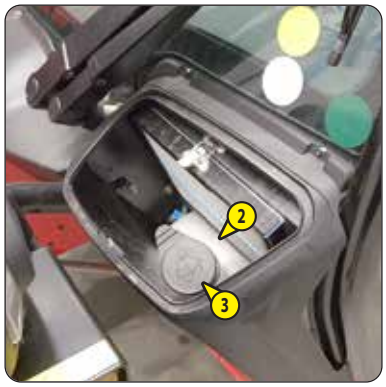
Use a clean funnel and clean the underside of the oil drum before filling.

- Check dipstick 1, the correct level should be at the maximum level.
- If necessary, add oil (◅ LUBRICANTS AND FUEL).
- Visually check that there is no leakage or seepage.
- Remove the cap 2.
- Add oil through filler port 3.
- Refit the cap.

CHECK — Windshield washer fluid level



- Open the protective casing 1 with the ignition key.
- Visually check the level in tank 2.
- If necessary, add windshield washer fluid (◅ LUBRICANTS AND FUEL).
- Remove the cap 3.
- Add windshield washer liquid through filler port.
- Refit the cap.



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 cover.
- If necessary, clean the intake grille on the engine cover.
- Using a soft cloth, clean the radiator cores in order to remove as much dirt as possible.
- Clean the radiator using a compressed air jet aimed from the engine toward the radiator, in the opposite direction to the cooling air flow.
- Using the handle 1, open the access panel 2 to remove impurities.





CLEAN — Dry air filter cartridge

Prefiltration elements are available for use in very dusty conditions (◁ FILTER CARTRIDGES AND BELTS). The cartridge checking and cleaning interval must also be reduced.

⚠ IMPORTANT ⚠

If the clogging indicator lamp comes on, this operation should be performed as soon as possible (maximum 1 hour). Never operate the lift truck with the air filter removed or damaged.

Maintain a safety distance of 1.18 in (30 mm) between the jet of air and the cartridge to avoid tearing or piercing the cartridge. The cartridge must not be blown through close to the air filter casing. Never clean the cartridge by tapping it on a hard surface. Protect your eyes during this operation.

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

- For the dismantling and refitting of the cartridge (◁ 1000H: REPLACE Air filter cartridge).
- Clean the filter cartridge using a compressed air jet (max. pressure 3 bars) directed from the top to the bottom and from the inside toward the outside at a minimum distance of 1.18 in (30 mm) from the cartridge wall.
- Cleaning is completed when there is no more dust on the cartridge.
- Clean the cartridge seal surface with a damp, clean lint-free cloth and grease with a silicone lubricant (MANITOU part no.: 479292).
- Visually inspect the external condition of the air filter and its mounts. Check also the condition of the hoses and their attachments.

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.



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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 10 hours of service or every day.

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

BOOM

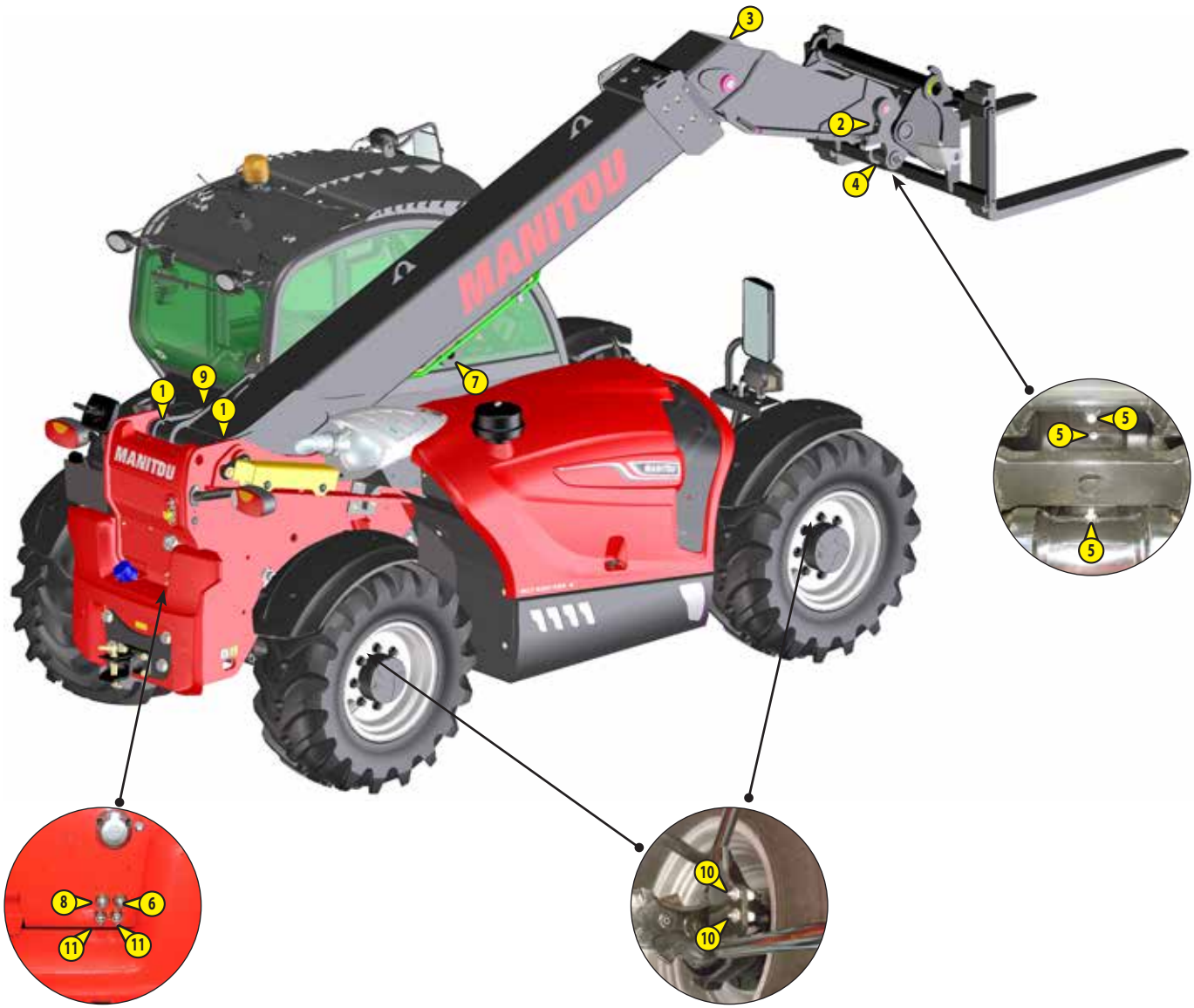
1 - Lubricators of the boom pin (2 lubricators).
2 - Lubricators of the carriage pin (2 lubricators).
3 - Lubricator of the tilting cylinder foot pin (1 lubricator).
4 - Lubricator of the tilting cylinder head pin (1 lubricator).
5 - Lubricators of the carriage connecting rod pins (3 lubricators).
6 - Lubricator of the lifting cylinder foot pin (1 lubricator).
7 - Lubricator of the lifting cylinder head pin (1 lubricator).
8 - Lubricator of the compensating cylinder foot pin (1 lubricator).
9 - Lubricator of the compensating cylinder head pin (1 lubricator).

FRONT AND REAR WHEEL REDUCTION GEAR PIVOTS

10 - Lubricators of the wheel reduction gear pivot pins (8 lubricators).

REAR AXLE OSCILLATION

11 - Rear axle oscillation lubricators (2 lubricators).



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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).

- Press button B to display the "PREFERENCES" menu.
- Turn knob A to navigate through the menus and sub-menus.

ENGINE SPECIFICATION	>	REGENERATION

- Press button A to display the countdown before next regeneration screen (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.

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

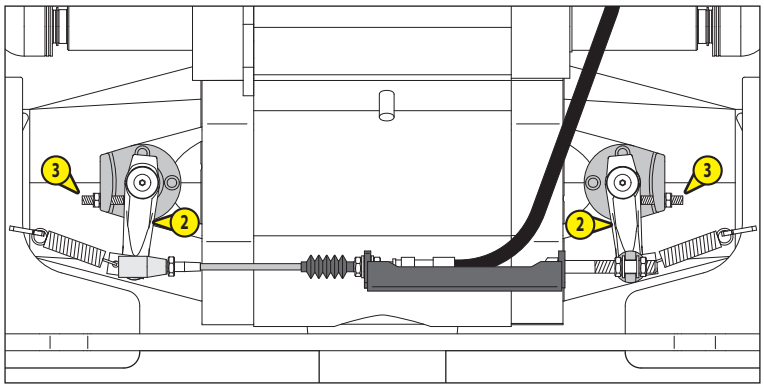
- If necessary, correctly clean the environment of the connecting rods and setting stops.
- Release then apply the parking brake several times, checking that the connecting rods 2 return to the stops 3.
- In the event of a malfunction, contact your dealer.



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.
- 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.



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CHECK — Hydraulic oil



MANITOU offers a hydraulic fluid analysis kit which might make it possible to delay the recommended deadline in the periodic maintenance schedule (2000 hours). In this case, we recommend an analysis of the hydraulic oil every 500 hours of service.

The oil analysis kit also makes it possible to confirm the oil quality so as to obtain a deadline of 2000 hours for specific uses causing constraints on the hydraulic circuit: extreme environmental conditions, use of the attachments with a very high hydraulic flow rate (such as a sweeper, or a concrete mixer).

- Order an oil analysis kit from your dealer.
- Upon receiving the kit, take a sample of oil and follow the instructions shown on the kit.
- According to the results, keep the analysis report or replace the hydraulic fluid.

Oil analysis kit (MANITOU Part No.: 958162)

CHECK — Fork wear *

Consult your dealer.

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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.

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



DRAINING THE OIL

- Open the engine cover.
- Remove access panel 1.

NOTE: 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.
- 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 11 - 12.5 ft-lbs 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.
- 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.
- Refit the access cover 1.





REPLACE Hydrostatic transmission oil filter cartridge

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

⚠ IMPORTANT ⚠

Thoroughly clean the outside of the filter and its surroundings before any intervention in order to prevent any risk of polluting the hydrostatic circuit.

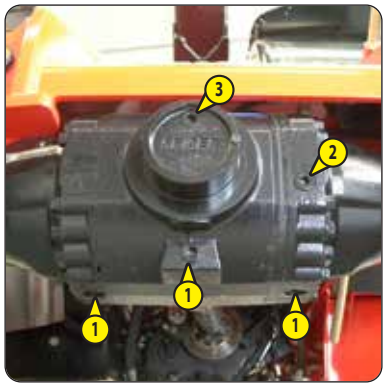
Tighten the body of the filter by hand pressure only and lock the body of the filter in place by a quarter turn.

- Place a container under the hydrostatic transmission oil filter 1.
- Unscrew the body of the filter.
- Remove the hydrostatic transmission oil filter cartridge and replace with a new one (◁ FILTER CARTRIDGES AND BELTS).
- Make sure that the cartridge is correctly positioned and refit the body of the filter.



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REPLACE Front axle differential oil



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

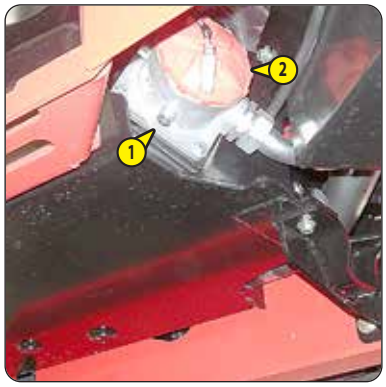
⚠ IMPORTANT ⚠

Dispose of the used oil in an ecological manner.

- Place a container under drain plugs 1 and unscrew them.
- Remove level plug 2 and filling plug 3 to ensure that the oil is drained properly.
- Refit and tighten the drain plugs 1 (tightening torque 25 - 36 ft-lbs 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 edge of opening 2.
- Check for any possible leaks at the drain plugs.
- Refit and tighten level plug 2 (tightening torque 25 - 36 ft-lbs 34 - 49 N.m) and filling plug 3 (tightening torque 25 - 36 ft-lbs 34 - 49 N.m).

REPLACE Hydraulic return oil filter cartridge

REPLACE Hydraulic oil tank plug



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.

Tighten the body of the filter by hand pressure only and lock the body of the filter in place by a quarter turn.

- Place a container under hydraulic return oil filter 1.
- Unscrew the filter cover 2 by two or three thread turns.
- Wait a few moments while the oil flows into the container.
- Remove the cover and slowly take out the filter cartridge assembly.
- Place the assembly in a clean container.
- Separate the head 3 from the tank 4.
- Replace the cartridge 5 with a new one (◁ FILTER CARTRIDGES AND BELTS).
- Make sure that the cartridge is correctly positioned.
- Refit the head 3 on the tank 4.
- Refit the assembly and screw the filter cover 2 back on.
- Replace the filler plug 6 with a new one (◁ FILTER CARTRIDGES AND BELTS).







EXTERNAL CAB VENTILATION FILTER

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





INTERNAL CAB VENTILATION FILTER

- Remove the protective grid 3.
- Remove the cab ventilation filter 4 and replace it with a new one (◁FILTER CARTRIDGES AND BELTS).
- Refit the protective grid.





REPLACE Filter coupling (OPTIONAL Automatic central greasing)

- Switch off the lift truck's ignition.
- Remove the filter coupling 1 from the greasing unit.
- Clean the hole in the unit with a clean rag.
- Fit the new filter coupling to the unit (◁ FILTER CARTRIDGES AND BELTS).
- Top up with grease if required.



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

NOTE: Replace the seat belt after an accident.

CLEAN — Fuel tank

REPLACE — Fuel tank breather

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

⚠ IMPORTANT ⚠

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

- 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 filler hole 3.
- Refit and tighten the drain plug 1 (tightening torque 21 - 29 ft-lbs 29 - 39 N.m).
- Unscrew the breather 4 and replace with a new one (◁ FILTER CARTRIDGES AND BELTS) (tightening torque 3.7 ± 1.5 ft-lbs (5 ±2 N.m).
- Fill the fuel tank with clean diesel filtered through the filler port.
- Refit the filler plug.





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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.

DRAINING THE LIQUID

- Open the engine cover.
- Unscrew the thumbwheel 1 to lower the access panel 2.

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



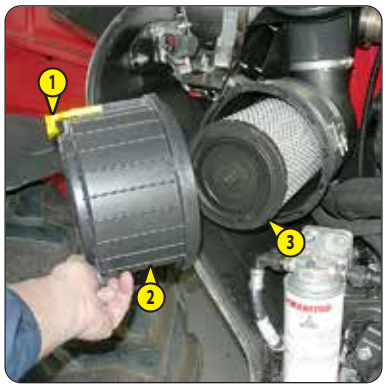
- Place a container under radiator drain plug 3 and unscrew the plug.
- Remove filler plug 4 from the expansion tank and fully open the heating control to ensure correct drainage.
- Let the cooling circuit drain entirely while ensuring that the ports do not get clogged.
- Check the condition of the hoses as well as the fastening devices and change the hoses if necessary.
- Rinse the circuit with clean water and use a cleaning agent if necessary.

FILLING WITH COOLANT



- Refit and tighten the radiator drain plug 3.
- Slowly fill the circuit with coolant (◁ LUBRICANTS AND FUEL) up to the middle of the expansion tank 5 by the filler hole.
- Refit the filler plug 4.
- Run the engine at idle for a few minutes.
- Check for any possible leaks.
- Refit the access panel 2 and retighten the thumbwheel 1.
- Check the level and refill if necessary.

REPLACE Dry air filter cartridge



Prefiltration elements are available for use in very dusty conditions (◁ FILTER CARTRIDGES AND BELTS). Also, the checking and cleaning periodicity of the cartridge must be reduced (up to 250 hours in a very dusty atmosphere and with pre-filtration).

⚠ IMPORTANT ⚠

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

- Open the engine cover.
- Release the lock 1 and pivot the cover 2 to remove it.
- Gently remove the cartridge 3 to reduce dust falling as far as possible.
- 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.
- Before fitting check the condition of the new cartridge (◁ FILTER CARTRIDGES AND BELTS).
- Insert the cartridge in the filter axis and push the cartridge pressing against the outer edge and not in the center.
- Reassemble the cover, with the valve pointing downward.

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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 engine cover.
- Close the diesel supply with valve 1.
- Disconnect electrical wiring harness 2 from the fuel pre-filter.
- Place a hose on the drain plug 3 and the other end in a container.
- Unscrew the drain plug 3 by two turns.
- Open bleed screw 4 to ensure proper emptying.
- Retighten bleed screw 4 once the pre-filter is emptied.
- Loosen pre-filter 5 and discard it, together with its seal.
- Clean the inside of the pre-filter head using a brush immersed in clean diesel oil.
- Refit a pre-filter and a new seal lubricated with clean diesel beforehand (◅ FILTER CARTRIDGES AND BELTS).
- Reconnect electrical wiring harness 2 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 7.4 - 8.8 ft-lbs 10 - 12 N.m).
- Open the diesel supply with valve 2.
- Open the bleed screw 4 of the fuel pre-filter and the bleed screw 3 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 "DEF" (Diesel Exhaust Fluid) supply pump filter



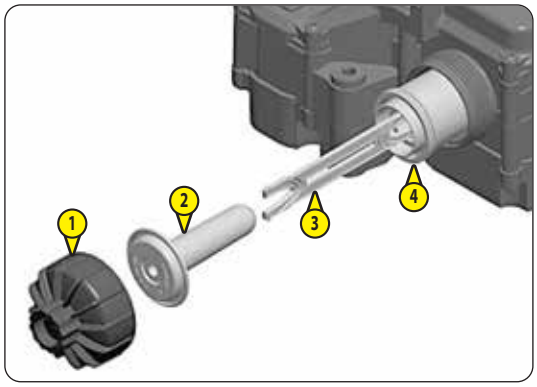
Place the lift truck on level ground with the engine stopped.

⚠ IMPORTANT ⚠

Diesel exhaust fluid is corrosive: protect the bodywork and wear personal protective equipment (gloves and goggles). Carefully clean the outside of the fuel filter, to prevent dust from getting into the system.

- Switch off the lift truck's ignition and wait for the pump to stop.
- Unscrew the pump cover 1, remove the compensation element 2 and discard.
- Insert the extraction tool 3 (provided with the new filter) into the filter 4 until a click is heard or felt.
- Pull the tool to extract and discard the assembly.
- Lightly oil the cover joint with clean engine oil.
- Replace with a new filter and compensation element (◁ FILTER CARTRIDGES AND BELTS) in the pump and screw the cover 1 (torque 17 ft-lbs 23 N.m).





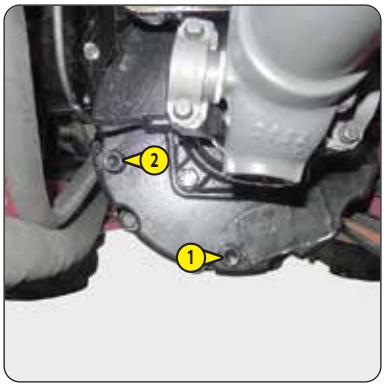
REPLACE Tank filling strainer "DEF" (diesel exhaust fluid)



- Remove the filler plug 1.
- Unlock strainer 2 and replace with a new one (◁ FILTER CARTRIDGES AND BELTS).
- Remove the filler plug 1.

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REPLACE — Reduction gearbox oil



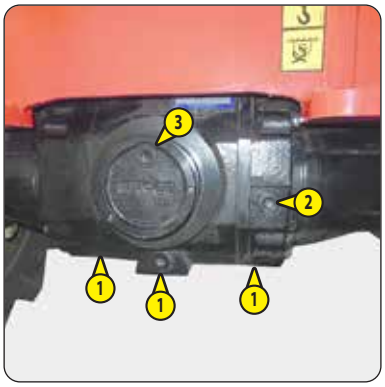
Place the lift truck on level ground with the engine stopped and the reduction gearbox oil still warm.

⚠ IMPORTANT ⚠

Dispose of the used oil in an ecological manner.

- Place a container under drain plug 1 and unscrew the plug.
- Remove level and filling plug 2 to ensure correct drainage.
- Refit and tighten the drain plug 1 (tightening torque 25 - 36 ft-lbs 34 - 49 N.m).
- Fill up with oil (◅ LUBRICANTS AND FUEL) through filler hole 2.
- The level is correct when the oil level is flush with the edge of the hole.
- Check for any possible leaks at the drain plug.
- Refit and tighten the level and filling plug 2 (tightening torque 25 - 36 ft-lbs 34 - 49 N.m).

REPLACE — Rear axle differential oil



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.

- Place a container under drain plugs 1 and unscrew them.
- Remove level plug 2 and filling plug 3 to ensure that the oil is drained properly.
- Refit and tighten the drain plugs 1 (tightening torque 25 - 36 ft-lbs 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 edge of opening 2.
- Check for any possible leaks at the drain plugs.
- Refit and tighten level plug 2 (tightening torque 25 - 36 ft-lbs 34 - 49 N.m) and filling plug 3 (tightening torque 25 - 36 ft-lbs 34 - 49 N.m).

REPLACE — Front wheel reducer oil

REPLACE — Rear wheel reducer oil



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 25 - 36 ft-lbs 34 - 49 N.m).

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CHECK Engine silent blocks *

CHECK Reduction gearbox silent blocks*

CHECK Brake system pressure *

CHECK Boom pad wear *

CHECK Condition of wiring harnesses and cables *

CHECK Lights and signals *

CHECK Warning indicators *

CHECK Condition of the rear view mirrors *

CHECK Cab structure *

CHECK Chassis structure *

CHECK Attachment mounting system *

CHECK Condition of attachments *

* Consult your dealer.

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

ALSO PERFORM THE 500-HOUR AND 1000-HOUR PERIODIC MAINTENANCE PROCEDURES.

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 =465 ± 70 ft-lbs (630 ± 94 N.m)
  - Rear wheels = 465 ± 70 ft-lbs (630 ± 94 N.m)

CLEAN — Air conditioning (OPTION) *



CLEANING CONDENSER AND EVAPORATOR COILS

CLEANING CONDENSATE TRAY AND RELIEF VALVE

COLLECTING COOLANT TO REPLACE DRIER FILTER

REFILLING WITH COOLANT AND CHECKING THE THERMOSTATIC CONTROL AND PRESSURE SWITCHES

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

⚠ IMPORTANT ⚠

NEVER TRY TO REPAIR ANY FAULTS YOURSELF. WHEN REFILLING CIRCUITS, ALWAYS REFER TO A DEALER WHO HAS THE CORRECT SPARE PARTS AND THE TECHNICAL KNOWLEDGE AND TOOLS REQUIRED.

In any of the following circumstances, call a doctor.

If inhaled, take the victim to fresh air.

If there is contact with the skin, wash immediately with plenty of water .

If there is frostbite, apply a sterile dressing.

If there is contact with the eyes, rinse with clear water for 15 minutes.

IMPORTANT INFORMATION REGARDING THE COOLANT USED

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

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

** Consult your dealer.*

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 the dismantling and refitting of the cartridge (◅ 1000H: 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.

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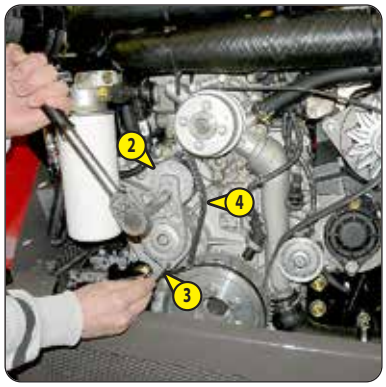
- Open the engine cover.
- Remove the protective casing 1.



REMOVING THE BELT

- Place a 1/2 in. socket wrench in the square of the automatic tensioner 2.
- Turn the socket wrench counterclockwise, and block the tensioner with a tool 3 (pin punch) to slacken and remove the belt.
- Remove the alternator belt 4.

NOTE: Take the opportunity provided by the removal of the belt to check that the pulleys and bearings are working correctly (noise, friction, play, etc.).



REFITTING THE BELT

- Refit a new alternator belt (◁ FILTER CARTRIDGES AND BELTS). Ensure that it is properly seated in the grooves of each pulley.
- Continue to apply force to the socket wrench, remove the tool 3 (pin punch) and release the force on the socket wrench.
- Check that the belt is correctly positioned.
- Refit the protective casing 1.

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REPLACE *Hydraulic fluid*
CLEAN *Hydraulic oil tank suction strainer*
REPLACE *Ventilation reversal filter*

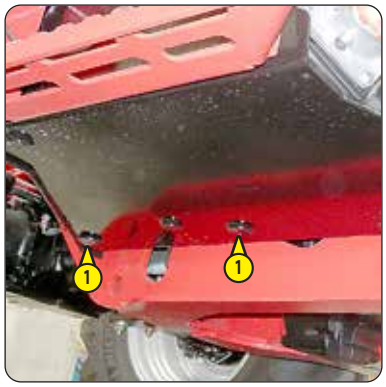
Place the lift truck on level ground with the engine shut down and the boom retracted and lowered as far as possible.

⚠ IMPORTANT ⚠

Before any intervention, thoroughly clean the area surrounding the filter, the drain plugs and the suction cover 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.



DRAINING THE OIL

- Place a container under drain plugs 1 and unscrew them.
- Remove level and filling plug 2 to ensure that the oil is drained properly and discard.



CLEANING THE STRAINER

- Remove hose 3.
- Remove and clean the suction strainer 4 using a compressed air jet, check its condition and replace if necessary (◁ FILTER CARTRIDGES AND BELTS).
- Refit the strainer 4 and hose 3 making sure the seal is in the correct position.

REPLACING THE VENTILATION REVERSAL FILTER

⚠ IMPORTANT ⚠

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

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



FILLING WITH OIL

- Clean and refit the drain plugs 1 (tightening torque 21 - 29 ft-lbs 29 - 39 N.m).
- Fill up with oil (◁ LUBRICANTS AND FUEL) through filler hole 5.
- Observe the oil level on the dipstick 7. The oil level should be at the MAX mark.
- Check for any possible leaks at the drain plugs.
- Fit a new filler plug 2.



CHECK	Radiator *
CHECK	Transmission pressures *
CHECK	Steering *
CHECK	Steering swivel joints *
CHECK	Condition of boom assembly *
CHECK	Bearings and bushings of the boom *
CHECK	Condition of hoses and flexible pipes *
CHECK	Condition of cylinders (leakage, rods) *
CHECK	Hydraulic circuit pressures *
CHECK	Chassis bearings and bushings*
REPLACE	Compressor belt (Air Conditioning OPTION) *

* Consult your dealer.

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CLEAN — Lift truck

Clean any traces of fuel, oil or grease from the lift truck or at least the area in question before carrying out any work.

EXTERIOR WASHING

- Close and lock all accesses to the lift truck (doors, windows, cowls, etc.).
- When washing with a high pressure cleaner, avoid the hinges and electrical components and connections.
- If necessary, protect components susceptible to damage, particularly electrical components and connections and the exhaust outlet, against penetration of water, steam or cleaning agents.
- After washing, leave the lift truck to dry in the open air and do not park inside a building.

INTERIOR WASHING

- Avoid cleaning the engine, the harnesses, the electrical components and parts with sensitive seals (e.g. universal joint cross-piece) with a high pressure cleaner. Clean with compressed air instead.
- Clean any accumulation of flammable materials near to heat sources and electrical components.
- Special attention should be paid to all the areas of the lift truck where these high-risk materials are likely to accumulate (e.g. engine compartment, under the boom, above the axles, etc.).

CLEAN — "Stationary lift truck" exhaust regeneration

⚠ IMPORTANT ⚠

If you are performing regeneration during the periodic 500-hour service, do the regeneration before replacing the engine oil.

- Park the lift truck in a safe and adequately ventilated place.
- Check the following points:
  - forward/reverse selector in neutral,
  - parking brake activated,
  - no action on the hydraulic control joystick,
  - boom in transport position,
  - 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 the top of button  and hold for at least two seconds to launch exhaust regeneration. The indicator lamp comes on fixed and the engine speed increases, confirming the start of regeneration.
- The length of the exhaust regeneration procedure varies (between 40 and 50 minutes).

⚠ IMPORTANT ⚠

Exhaust regeneration must only be stopped if absolutely necessary.
Regeneration stops automatically if the operator:
- activates the hydraulic control joystick,
- engages forward or reverse gear,
- switches off the engine,
- presses switch 1.

- When regeneration has finished, the indicator lamp  goes out and the countdown before next regeneration screen returns to 700 hours (700h => 0h).

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For this operation, we advise you to use the hydraulic jack (MANITOU part no.: 505507) and the safety support prop (MANITOU part no.: 554772).

⚠ 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 - OPERATING AND 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.
- Unlock the nuts of the wheel to be changed.
- Place the jack under the flared axle tube (◁), as near as possible to the wheel and adjust the jack.
- Raise the wheel until it is clear of the ground and place the safety support under the axle.
- Completely unscrew the wheel nuts and remove them.
- Free the wheel by reciprocating 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 safety support and lower the lift truck with the jack.
- Tighten the lug nuts to the prescribed torque value (◁ 2000H - PERIODIC MAINTENANCE - EVERY 2000 HOURS OF SERVICE OR 4 YEARS) with a torque wrench.





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REPLACE — Battery



⚠ IMPORTANT ⚠

Switch off the ignition with the key, wait 30 seconds, then operate the battery cut-off.
Wait 5 minutes before disconnecting the battery, this is required in order to purge the Diesel Exhaust Fluid (DEF) system.
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.

- Open the engine cover.
- Bring a back-up battery of the same type as the one used for the lift truck, together with battery cables.
- Connect the back-up battery, respecting the polarity (-) (+).
- Start the lift truck and remove the cables as soon as the engine is running.



⚠ IMPORTANT ⚠

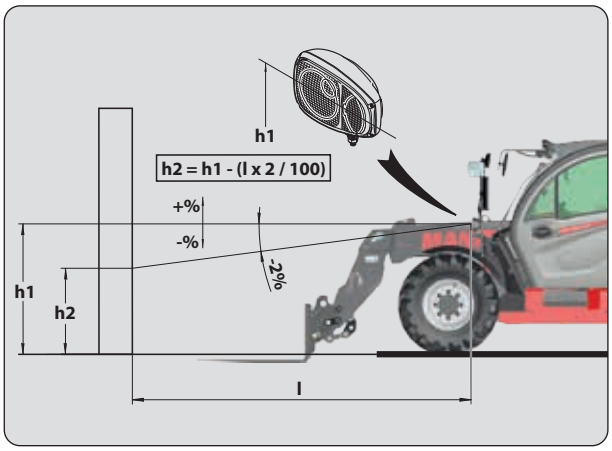
Raise the boom and place the boom safety wedge on the rod of the lifting cylinder (◁ 1 - INSTRUCTIONS AND SAFETY RECOMMENDATIONS: LIFT TRUCK MAINTENANCE INSTRUCTIONS).

- Remove the protective casing 1.
- Replace the battery





ADJUST — Front headlights



RECOMMENDED SETTING

(according to standard ECE-76/756 76/761 ECE20)

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

ADJUSTMENT PROCEDURE

- Place the unladen lift truck in the transport position and perpendicular to a white wall on flat, level ground.
- Check the tire pressures (◁ 2 - DESCRIPTION: TIRES).
- Put the gearshift lever in neutral.

CALCULATING THE HEIGHT OF THE DIPPED BEAM (H2)

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

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TOW OR WINCH — Lift truck

⚠ IMPORTANT ⚠

This operation must be performed at very low speed (less than 3.11 mph (5 km/h) and over as short a distance as possible (less than 328.08 ft (100 m).
The high pressure limiters MUST be unlocked to avoid damaging the hydrostatic transmission.

UNLOCKING THE HIGH PRESSURE LIMITERS

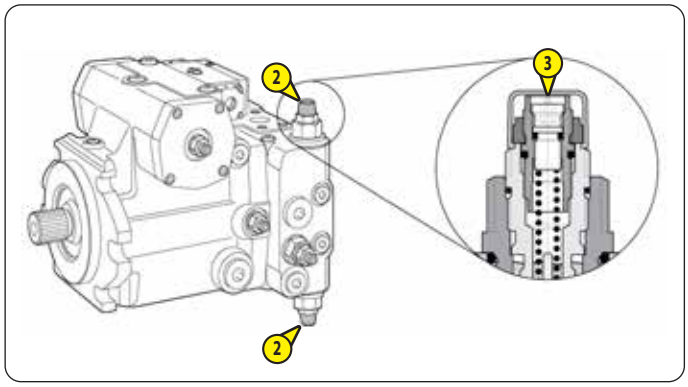
- Remove the cover plate 1.

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

- Remove the caps 2 from each limiter.
- Unscrew the screws 3 by two turns to the left.







- Switch on lift truck ignition.
- Set the forward/reverse selector to neutral.
- Release the parking brake.
- Switch on the hazard warning lights.
- Remove the clip 4, lift the towing pin 5 and place the tow bar or the winch cable on the towing pin.

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

- After towing, re-tighten screws 3 (tightening torque 6.6 - 7.4 ft-lbs 9 - 10 N.m).
- Refit the caps 2.



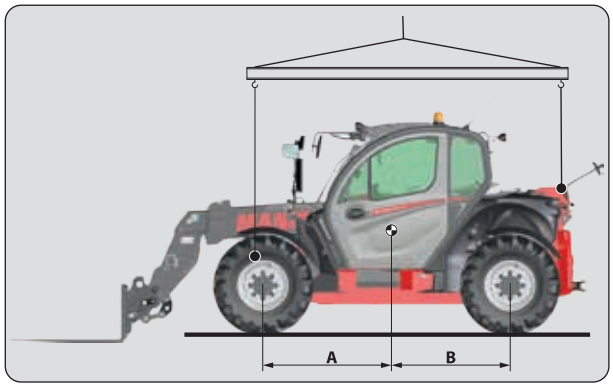
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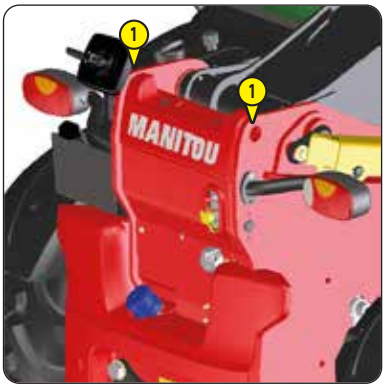
SLING — Lift truck

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

  A = 54.33 in (1380 mm) B = 51.57 in (1310 mm) MLT 630 ...

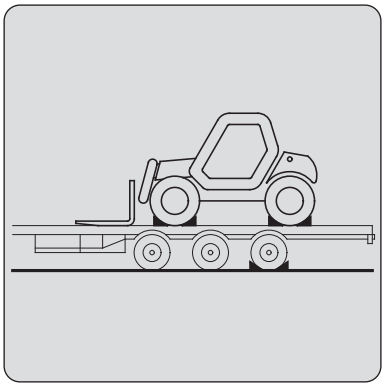
- Place the hooks in the anchoring points 1 provided.







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⚠ IMPORTANT ⚠

Check that the safety instructions associated with the transport vehicle have been correctly applied before loading the machine and ensure that the driver of the vehicle has been informed of the dimensional characteristics and total weight of the machine.

Ensure that the transport vehicle has adequate dimensions and load capacity for transporting the machine, ◁ SPECIFICATIONS and STICKERS.

Covers must be closed and locked while the machine is being transported.

⚠ IMPORTANT ⚠

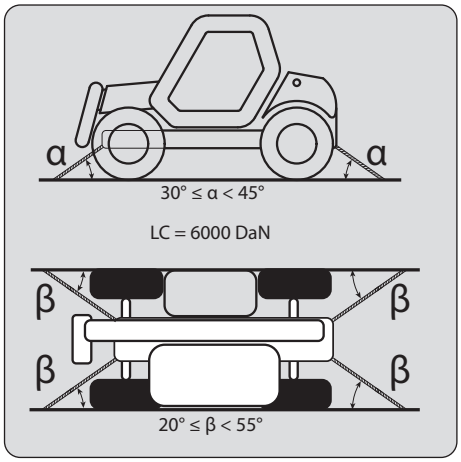
The transport vehicle must be parked on a level surface and the wheels must be chocked to prevent it from rolling during loading and unloading of the machine.

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

The machine must be loaded or unloaded using a winch if the loading ramps are slippery, ◁ FREEWHEELING FOR TOWING/WINCHING.

The angle of the loading ramps must not exceed the maximum slope accessible value, ◁ SPECIFICATIONS.

The machine must be loaded and unloaded using a crane if the angle of the loading ramps exceeds the maximum slope accessible value, ◁ TRANSPORT FOR WINCHING: LIFTING INSTRUCTIONS.



LOADING THE MACHINE ONTO THE TRANSPORT VEHICLE

- Fully retract the telescopic arm.
- Load the machine parallel to the transport vehicle.
- Place the attachment flat on the ground.
- Activate the parking brake.
- Switch off the machine.
- Remove the ignition key.

SECURING THE MACHINE TO THE TRANSPORT VEHICLE

- Fix chocks to the transport vehicle at the front and rear of each of the machine's wheels.
- Fix chocks to the transport vehicle on the inner side of each of the machine's wheels.
- Attach the straps to the machine's anchoring points, ◁ STICKERS: ANCHORING POINT.
- Secure the machine, observing the lashing angles (α) and (β) and the resistance (LC) of the straps.



UNLOADING THE MACHINE FROM THE TRANSPORT VEHICLE

- Remove the straps.
- Remove the chocks from the wheels.
- Switch on the machine.
- Raise the telescopic arm.
- Release the parking brake.
- Lower the machine parallel to the transport vehicle.





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4 - OPTIONAL ADAPTABLE ATTACHMENTS FOR THE RANGE

4 - OPTIONAL ADAPTABLE ATTACHMENTS FOR THE RANGE

INTRODUCTION 4-3

PICKING UP THE ATTACHMENTS 4-4

TECHNICAL SPECIFICATIONS OF ATTACHMENTS 4-6

ATTACHMENT GUARDS 4-14

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.

⚠ IMPORTANT ⚠

Depending on their size, certain attachments may, when the boom is lowered and retracted, come into contact with the front tires and cause damage to them if excavation is activated in the direction of the discharge.
TO PREVENT THIS RISK, EXTEND THE TELESCOPE TO A SUFFICIENT EXTENT FOR THE PARTICULAR LIFT TRUCK AND ATTACHMENT SO THAT THIS CONTACT IS NOT POSSIBLE.

SUSPENDED LOAD

⚠ IMPORTANT ⚠

Suspended loads MUST be handled with a lift truck designed for that purpose (◁ 1 - OPERATING AND SAFETY INSTRUCTIONS: INSTRUCTIONS FOR HANDLING LOADS: H - LIFTING UP AND SETTING DOWN A SUSPENDED LOAD).

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PICKING UP THE ATTACHMENTS

1 - ATTACHMENT WITHOUT HYDRAULICS AND HAND LOCKING DEVICE

FITTING AN ATTACHMENT

- Ensure that the attachment is in a position facilitating the locking to the carriage. If it is not correctly oriented, take the necessary precautions in order to move it safely.
- Check that the locking pin is in position in the bracket (fig. A).
- Place the lift truck with the boom lowered in front of and parallel to the attachment, and tilt the carriage forward (fig. B).
- Bring the carriage under the locking tube of the attachment, slightly raise the boom, tilt the carriage backward in order to position the attachment (fig. C).
- Lift the attachment off the ground to facilitate locking.

MANUAL LOCKING

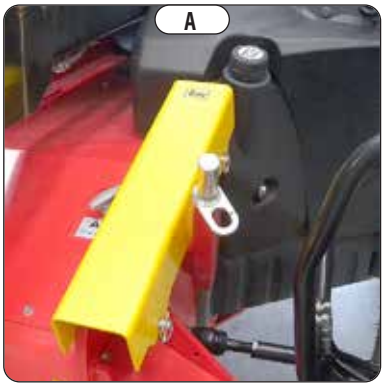
- Take the locking pin on the bracket (fig. A) and lock the attachment (fig. D). Do not forget to fit the pin.

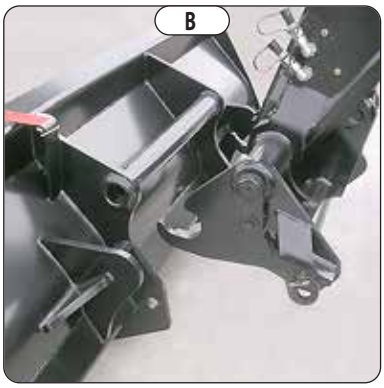
MANUAL UNLOCKING

- Proceed in the reverse order to MANUAL LOCKING, taking care to refit the locking pin in the bracket (fig. A).

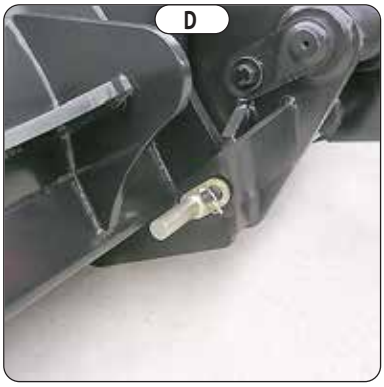
REMOVING THE ATTACHMENT

- Proceed in the reverse order to FITTING AN ATTACHMENT, taking care to store the attachment flat on the ground and in the closed position.









2 - HYDRAULIC ATTACHMENT AND MANUAL LOCKING DEVICE

FITTING AN ATTACHMENT

- Ensure that the attachment is in a position facilitating the locking to the carriage. If it is not correctly oriented, take the necessary precautions in order to move it safely.
- Check that the locking pin is in position in the bracket (fig. A).
- Place the lift truck with the boom lowered in front of and parallel to the attachment, and tilt the carriage forward (fig. B).
- Bring the carriage under the locking tube of the attachment, slightly raise the boom, tilt the carriage backward in order to position the attachment (fig. C).
- Lift the attachment off the ground to facilitate locking.

MANUAL LOCKING AND CONNECTION OF THE ATTACHMENT

⚠ IMPORTANT ⚠

Make sure that the rapid connectors are clean and protect the holes which are not used, with the caps provided.

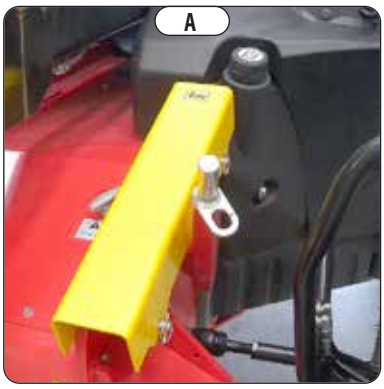
- Take the locking pin on the bracket and lock the attachment (fig. D). Do not forget to fit the pin.
- Stop the engine and keep the ignition on the lift truck.
- Release the pressure in the attachment hydraulic circuit by operating switch 1 on the distributor lever backwards and forwards 4 or 5 times.
- Connect the quick-release couplers according to the logic of the attachment's hydraulic movements.

MANUAL RELEASE AND DISCONNECTION OF THE ATTACHMENT

- Proceed in the reverse order of paragraph MANUAL LOCKING AND CONNECTION OF THE ATTACHMENT, taking care to refit the locking pin in the bracket.

REMOVING THE ATTACHMENT

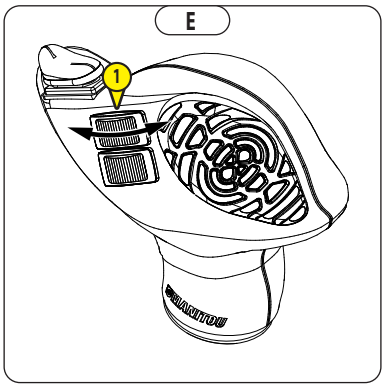
- Proceed in the reverse order to FITTING AN ATTACHMENT, taking care to store the attachment flat on the ground and in the closed position.







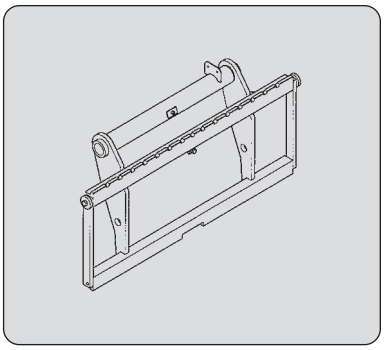




TECHNICAL SPECIFICATIONS OF ATTACHMENTS

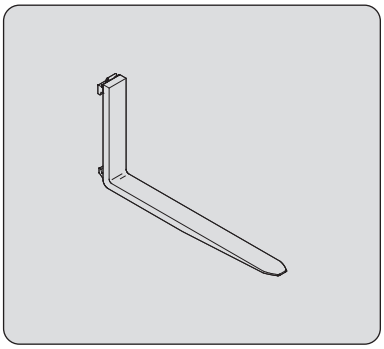
STANDARDIZED TILTING FORK CARRIAGE

	PFB 35 N MT-1260 S2	PFB 35 N MT-1470 S2	PFB 35 N MT-1580 S2
REFERENCE	**653744**	**653745**	**653746**
Rated capacity	3500 kg	3500 kg	3500 kg
Width	1260 mm	1470 mm	1580 mm
Weight	95 kg	120 kg	125 kg



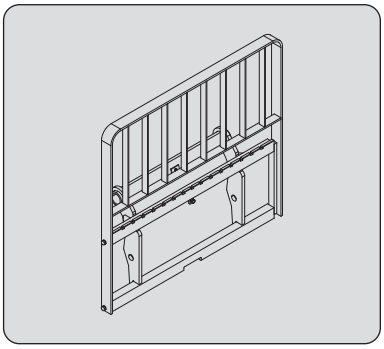
STANDARDIZED FORK

REFERENCE	**415618**
Section	125x45x1200 mm
Weight	72 kg



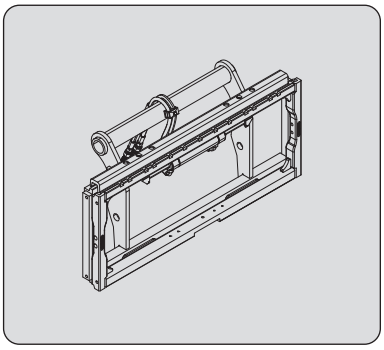
STANDARDIZED TILTING FORK CARRIAGE + LOAD BACK REST

	PFB 35N 1260 LB	PFB 35N 1470 LB
REFERENCE	**52000200**	**52000201**
Rated capacity	3500 kg	3500 kg
Width	1260 mm	1470 mm
Weight	130 kg	158 kg



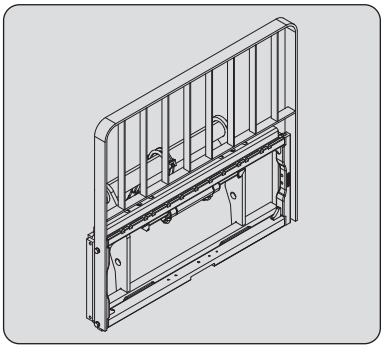
STANDARDIZED TILTING FORK CARRIAGE + STANDARDIZED SIDE-SHIFT CARRIAGE

	PFB 35 N 1260 DL	PFB 35 N 1580 DL
REFERENCE	**52000101**	**52000102**
Rated capacity	3150 kg	3150 kg
Side-shift	2x100 mm	2x100 mm
Width	1260 mm	1580 mm
Weight	175 kg	300 kg



STANDARDIZED TILTING FORK CARRIAGE + STANDARDIZED SIDE-SHIFT CARRIAGE + LOAD BACK REST

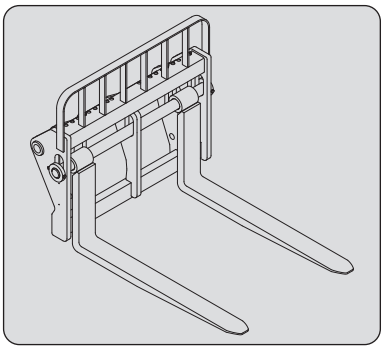
	PFB 35 N 1260 DL/LB
REFERENCE	**52000205**
Rated capacity	3150 kg
Side-shift	2x100 mm
Width	1260 mm
Weight	210 kg



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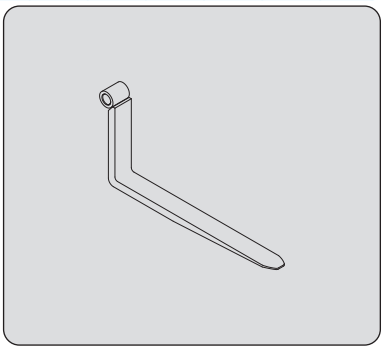
FLOATING FORK CARRIAGE

	TFF 35 MT-1040	TFF 35 MT-1300
REFERENCE	**654093**	**654094**
Rated capacity	3500 kg	3500 kg
Width	1040 mm	1300 mm
Weight	300 kg	340 kg



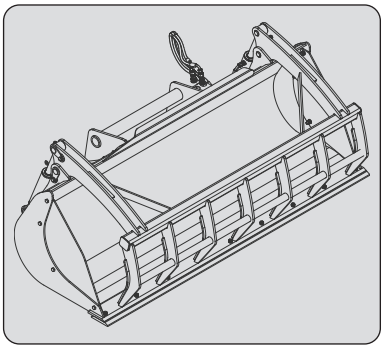
FLOATING FORK

REFERENCE	**415801**
Section	125x45x1200 mm
Weight	68 kg



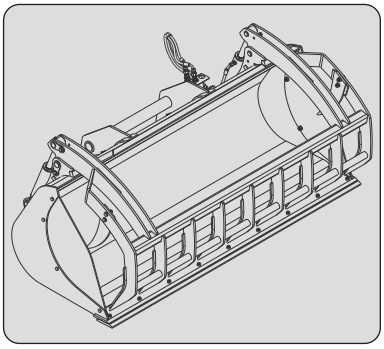
BUCKET WITH GRAB

	CBG 2100 MS	CBG 2300 MS
REFERENCE	**790304**	**790306**
Rated capacity	1090 ℓ	1190 ℓ
Width	2100 mm	2300 mm
Teeth	7	7
Weight	681 kg	720 kg



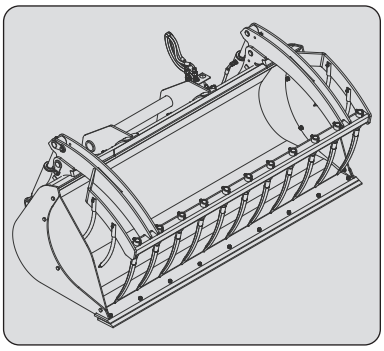
BUCKET WITH GRAB

	BG 2100/1200 WE	BG 2300/1350 WE
REFERENCE	**52647328**	**52647330**
Rated capacity	1200 ℓ	1335 ℓ
Width	2100 mm	2300 mm
Teeth	8	8
Weight	745 kg	785 kg



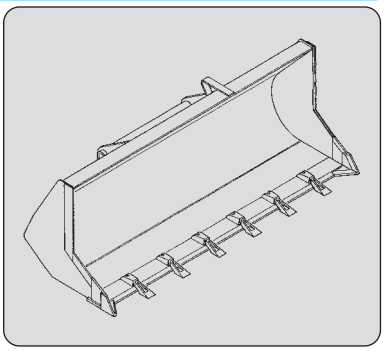
BUCKET WITH GRAB

	BG 2100/1200 FO	BG 2300/1350 FO
REFERENCE	**52647329**	**52647331**
Rated capacity	1200 ℓ	1335 ℓ
Width	2100 mm	2300 mm
Teeth	8	9
Weight	720 kg	763 kg



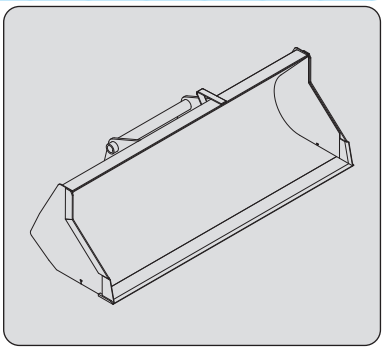
BUILDING BUCKET

	CBC 750 L2100	CBC 800 L2250
REFERENCE	**654475**	**654471**
Rated capacity	768 ℓ	814 ℓ
Width	2100 mm	2250 mm
Weight	345 kg	366 kg



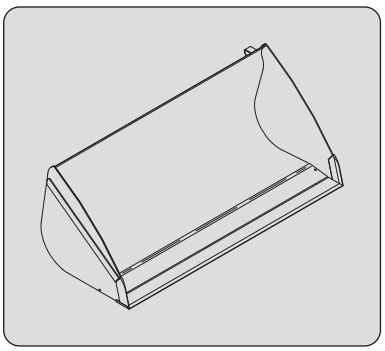
LOADING BUCKET

	CBR 850 L2100	CBR 900 L2250
REFERENCE	**653047**	**653749**
Rated capacity	778 ℓ	904 ℓ
Width	2100 mm	2250 mm
Weight	358 kg	360 kg



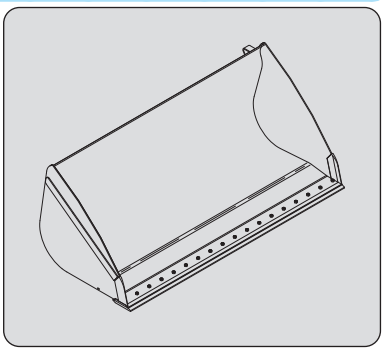
GRAIN BUCKET

	CBA 1700 L2100 S3	CBA 2000 L2250 S3
REFERENCE	**570549**	**790540**
Rated capacity	1703 ℓ	1970 ℓ
Width	2100 mm	2250 mm
Weight	522 kg	585 kg



FARMING BUCKET (REMOVABLE AND REVERSIBLE BLADE)

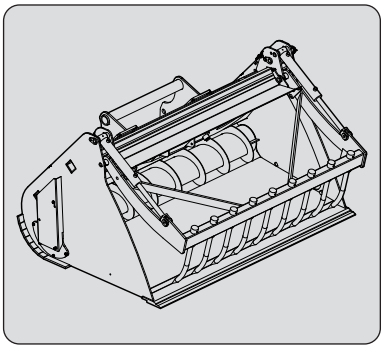
	CBA 1700 L21000 LDR S3	CBA 2000 L2250 LDR S3
REFERENCE	**52610570**	**790541**
Rated capacity	1643 ℓ	1970 ℓ
Width	2100 mm	2250 mm
Weight	522 kg	625 kg



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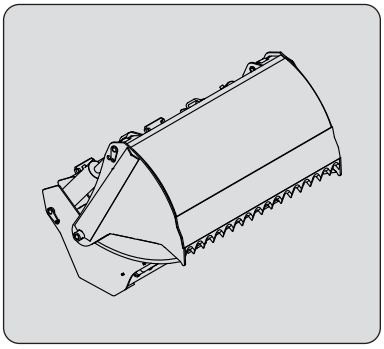
SPREADER GRAB SHELL

	CGD 2200/2100 FO
REFERENCE	**790311**
Rated capacity	2100 ℓ
Width	2200 mm
Teeth	11
Weight	1140 kg



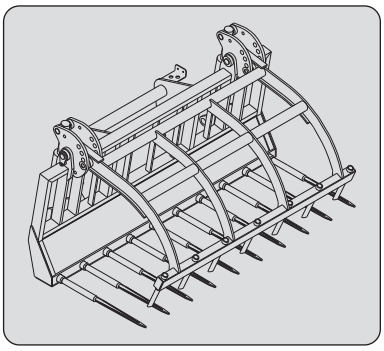
SHEAR GRAB

	SHG 1800/1350
REFERENCE	**52000381**
Rated capacity	1315 ℓ
Width	1800 mm
Weight	749 kg



MANURE FORK WITH GRAB

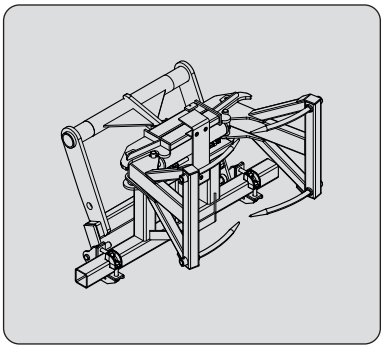
	FFGR 30 MT 1950 S5	FFGR 30 MT 2100 S5
REFERENCE	**751404**	**751403**
Rated capacity	1580 kg	1700 kg
Width	1950 mm	2100 mm
Finger	9	10
Teeth	7	7
Weight	477 kg	492 kg



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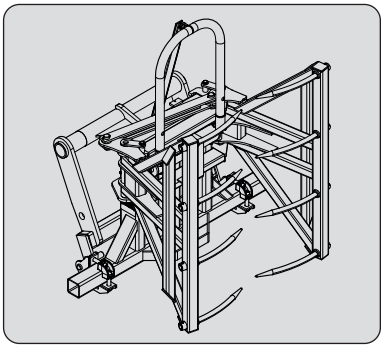
BALE CLAMP

	PBG 2X2
REFERENCE	**757639**
Rated capacity	800 kg
Width	1090 mm
Teeth	2x2
Weight	158 kg



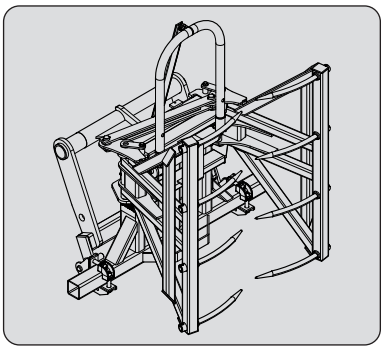
BALE CLAMP

	PBG 2X4
REFERENCE	**757612**
Rated capacity	1000 kg
Width	1300 mm
Teeth	2x4
Weight	262 kg



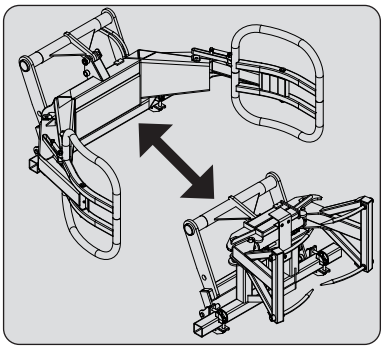
BALE CLAMP

	P2BG 2X4
REFERENCE	**790518**
Rated capacity	1500 kg
Width	1090 mm
Teeth	2x4
Weight	275 kg



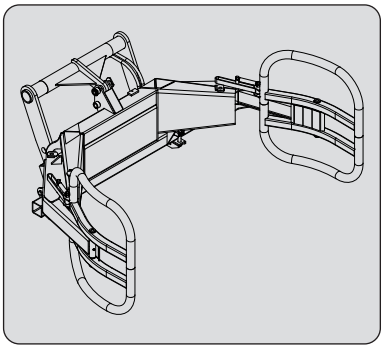
BALE CLAMP

	MBC 2X3
REFERENCE	**790506**
Rated capacity	800 kg
Width	1196 mm
Weight	290 kg



BALE CLAMP

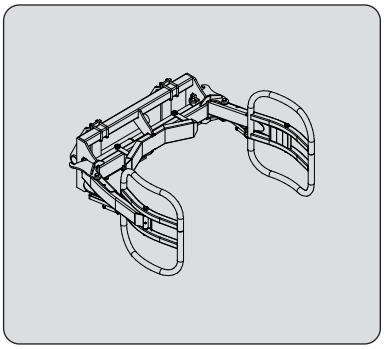
	PBE
REFERENCE	**757613**
Rated capacity	1000 kg
Width	1600 mm
Weight	242 kg



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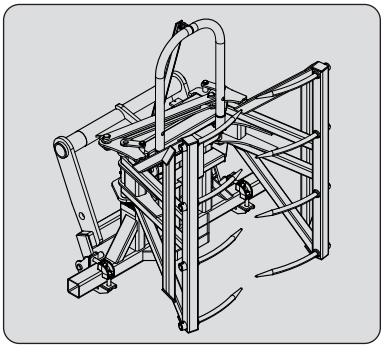
BALE CLAMP

	CLBW 800	CLBW 1500
REFERENCE	52000813	52001012
Rated capacity	800 kg	1500 kg
Width	1634 mm	1952 mm
Weight	227 kg	251 kg



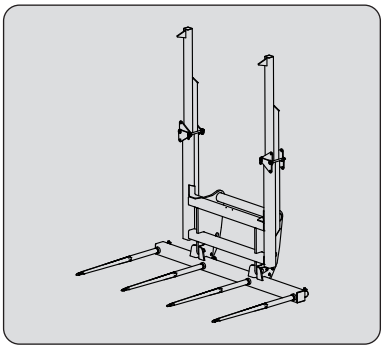
BALE CLAMP

	CLBR 2X3
REFERENCE	52001013
Rated capacity	1200 kg
Width	1090 mm
Teeth	2x3
Weight	235 kg



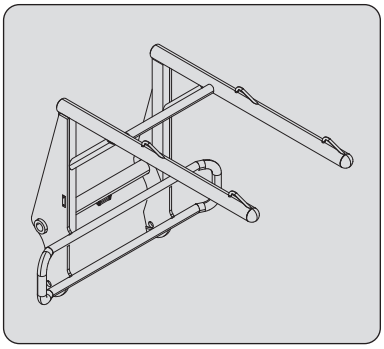
BALE FORK

	FB 1900/1700
REFERENCE	790699
Rated capacity	1700 kg
Width	1878 mm
Teeth	4
Weight	215 kg



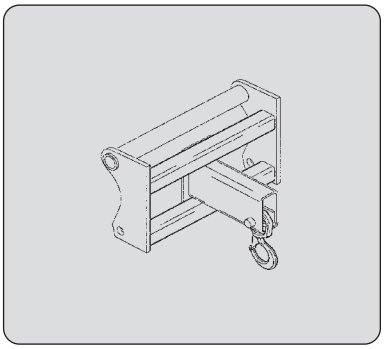
BOOM CRANE WITH BIG BAG

	HBB 1500/2400
REFERENCE	931627
Rated capacity	2400 kg
Weight	186 kg



CRANE

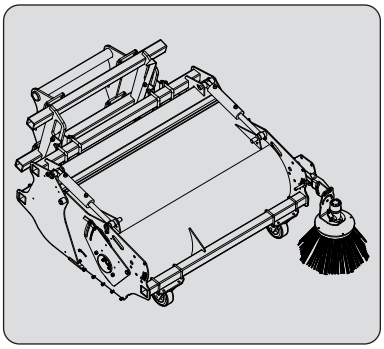
	PC 50
REFERENCE	708544
Rated capacity	5000 kg
Weight	120 kg



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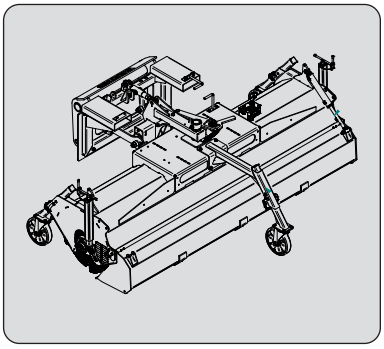
SWEEPER COLLECTOR WITH BRUSH

	BRB 2200
REFERENCE	790315
Rated capacity	530 ℓ
Width	2600 mm
Weight	925 kg



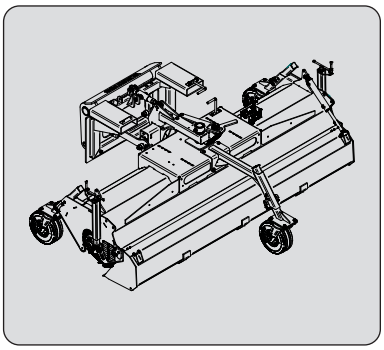
SWEEPER WITH BRUSH

	SCC 2600
REFERENCE	52000515
Rated capacity	2600 mm
Width	2820 mm
Weight	725 kg



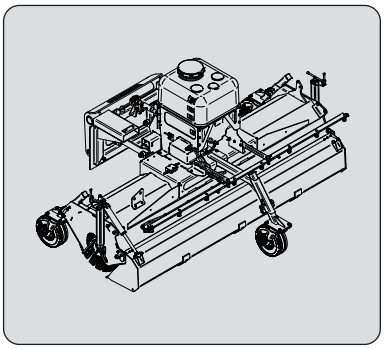
SWEEPER WITH BRUSH

	SCC 2600+
REFERENCE	52000517
Rated capacity	2600 mm
Width	2820 mm
Weight	780 kg



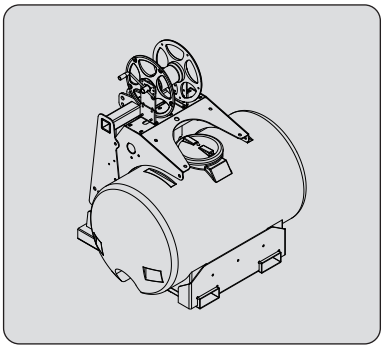
SWEEPER WITH BRUSH

	SCC 2600 HWA+
REFERENCE	52000519
Rated capacity	2600 mm
Width	2820 mm
Weight	795 kg



HIGH PRESSURE SCRUBBER

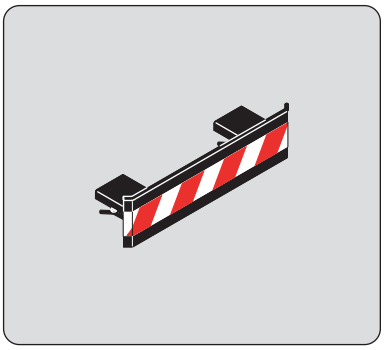
	VHPC 600
REFERENCE	790335
Rated capacity	600 ℓ
Width	1450 mm
Weight	240 kg



ATTACHMENT GUARDS

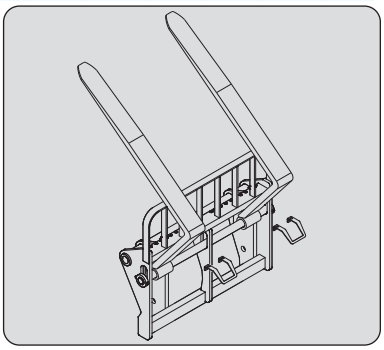
FORK GUARD

REFERENCE	**227801**



FORK BLOCK FOR FLOATING FORK CARRIAGE

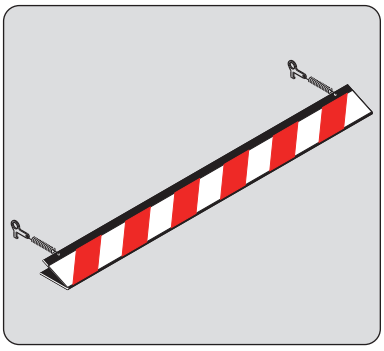
REFERENCE	**261210**



BUCKET PROTECTOR

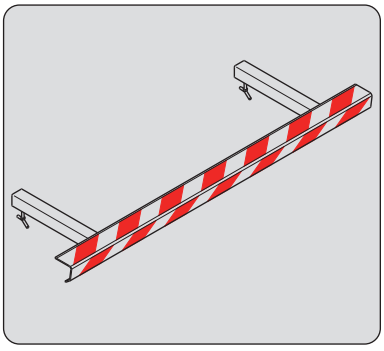
Always ensure that the width of the protector you choose is less than or equal to the width of the bucket.

REFERENCE	**206734**	**206732**	**206730**
Width	1375 mm	1500 mm	1650 mm
REFERENCE	**235854**	**206728**	**206726**
Width	1850 mm	1950 mm	2000 mm
REFERENCE	**223771**	**223773**	**206724**
Width	2050 mm	2100 mm	2150 mm
REFERENCE	**206099**	**206722**	**223775**
Width	2250 mm	2450 mm	2500 mm



MANURE FORK GUARD

REFERENCE	**230689**



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